

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	1
		ILLINOIS	CONTRACT NO. 72973	

D-96-031-25



LOCATION OF SECTION INDICATED THUS: - ■ -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

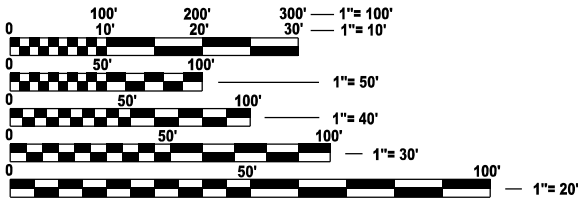
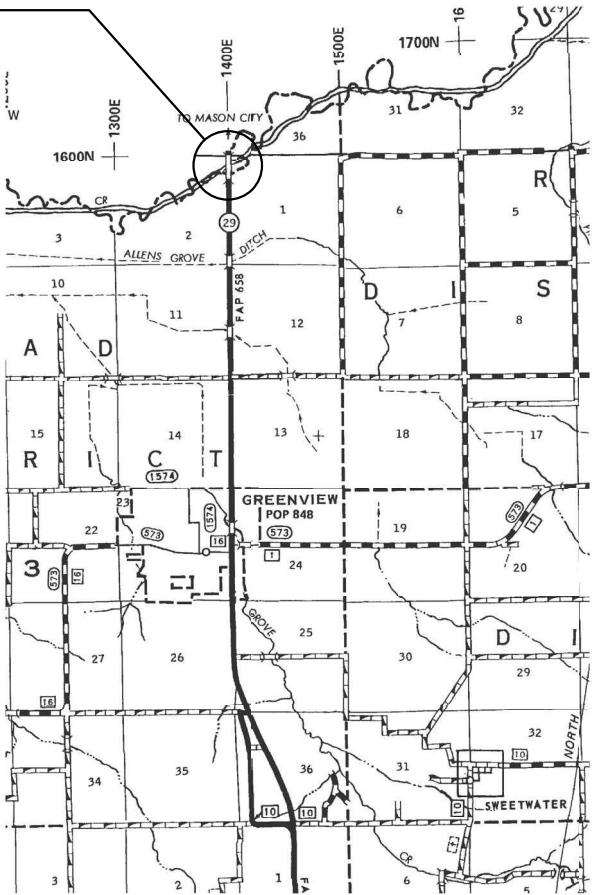
PROPOSED
HIGHWAY PLANS

FAP ROUTE 658 (IL 29)
SECTION K(B-1)BJR,BDR

BRIDGE DECK OVERLAY
MASON & MENARD COUNTIES
C-96-065-25



PROJECT LOCATION
SN 065-0501
IL 29 OVER SALT CREEK
AT MASON/MENARD
COUNTY LINE



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: BRANDON DUDLEY - (217) 785-9290
PROJECT MANAGER

CONTRACT NO. 72973

GROSS LENGTH = 1342 FT. = 0.25 MILE
NET LENGTH = 1342 FT. = 0.25 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 18 20 25
Lora Remy
REGIONAL ENGINEER
May 9 20 25
Scott Etk
ENGINEER OF DESIGN AND ENVIRONMENT
May 9 20 25
Y. Harris
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

MODEL: SQO [Sheet]
FILE NAME: c:\pw\work\pwisoford\dudley\mtd106812872973 plansheet.dgn

				0-01294-6006
				SN 065-0501
				100% STATE
				BRIDGE
				0047
				RURAL
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
35650300	BASE COURSE WIDENING 8"	SQ YD	303	303
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	960	960
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	356	356
40600990	TEMPORARY RAMP	SQ YD	86	86
40602978	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON	25	25
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	140	140
44004250	PAVED SHOULDER REMOVAL	SQ YD	303	303
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	40	40
50102400	CONCRETE REMOVAL	CU YD	29.1	29.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	36.4	36.4
50300300	PROTECTIVE COAT	SQ YD	4772	4772
50500505	STUD SHEAR CONNECTORS	EACH	8	8
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5580	5580
50800515	BAR SPLICERS	EACH	72	72

REV - MS

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					658	K(B-1)BJR,BDR	MASON/MENARD	24	3
		CHECKED -	REVISED -		CONTRACT NO. 72973							
	PLOT DATE = 3/18/2025	DATE -	REVISED -		SCALE:	SHEET 1	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

MODEL: SQ0-1 [Sheet]
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				0-01294-6006
				SN 065-0501
				100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0047
				RURAL
50800530	MECHANICAL SPLICERS	EACH	143	143
52000110	PREFORMED JOINT STRIP SEAL	FOOT	126	126
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1700	1700
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1700	1700
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGNS	CAL DAY	300	300

REV - MS

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					658	K(B-1)BJR,BDR	MASON/MENARD	24	4
		CHECKED -	REVISED -					CONTRACT NO. 72973				
	PLOT DATE = 3/18/2025	DATE -	REVISED -		SCALE:	SHEET 2	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

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				0-01294-6006
				SN 065-0501
				100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0047
				RURAL
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	9000	9000
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1400	1400
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	3580	3580
X5230172	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	30	30
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	10	10
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	4694	4694
Z0012166	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 3/4"	SQ YD	4694	4694
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	70	70
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	10	10
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	4800	4800
Z0034393	MODULAR EXPANSION JOINT 9"	FOOT	42	42
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	2	2
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	1500	1500

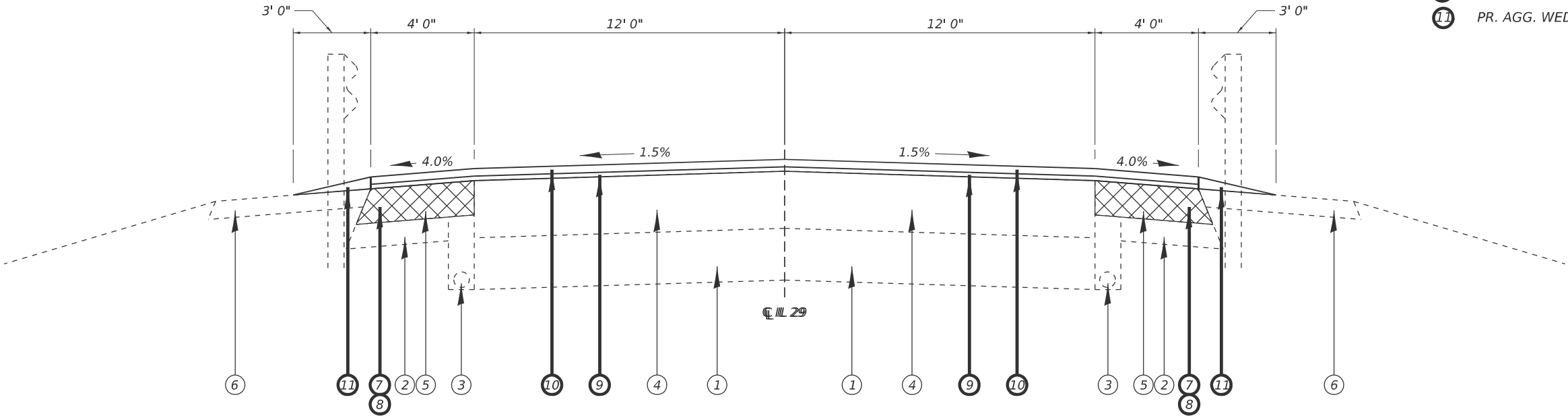
* SPECIALTY ITEM

Ø 0042

REV - MS

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						658	K(B-1)BJR,BDR	MASON/MENARD	24	5
		CHECKED -	REVISED -						CONTRACT NO. 72973				
	PLOT DATE = 2/18/2025	DATE -	REVISED -		SCALE:	SHEET 3	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

- 1 EX. SUBBASE GRANULAR MATL, 12"
- 2 EX. SUBBASE GRANULAR MATL, 6"
- 3 EX. PIPE UNDERDRAINS
- 4 EX. HMA FD PAVT, 13-3/4"
- 5 EX. HMA SHLDR, 8"
- 6 EX. AGG. SHLDR, 6"
- 7 PR. PAVED SHLDR. REM.
- 8 PR. BASE CSE. WIDENING - 8"
- 9 PR. HMA BINDER CSE, VAR. DEPTH
- 10 PR. HMA SURF. CSE, 1-3/4"
- 11 PR. AGG. WEDGE SHLDR.



STA 748+67 TO STA 750+37
STA 764+39 TO STA 766+09

NOTE: HMA BINDER SHALL BE USED AT THE DISCRETION OF THE ENGINEER FOR DIP CORRECTIONS AND MAY NOT BE NEEDED AT ALL STATIONS.

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		DRAWN -	REVISED -					658	K(B-1)BJR,BDR	MASON/MENARD	24	6
		CHECKED -	REVISED -					CONTRACT NO. 72973				
	PLOT DATE = 2/18/2025	DATE -	REVISED -		SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	



PARTIAL PLAN

USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -						658	K(B-1)BJR,BDR	MASON/MENARD	24	7
	CHECKED -	REVISED -						CONTRACT NO. 72973				
PLOT DATE = 2/18/2025	DATE -	REVISED -		SCALE:	SHEET 1	OF 5 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT		

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NORTH END SN:065-0501 WEST LANE EDGE				
POINT	CODE	STATION	OFFSET	ELEVATION
TM7113	619	763+46.202	-12.69	507.299
TM7114	619	763+56.316	-12.88	507.269
TM7117	619	763+66.276	-12.87	507.245
TM7119	619	763+76.211	-12.91	507.219
TM7122	619	763+85.891	-12.84	507.216
TM7124	619	763+96.395	-12.86	507.220
TM7125_1	618	763+96.849	-12.89	507.239
TM7128	618	763+99.39	-12.92	507.244
TM7132	618	764+12.192	-12.94	507.105
TM7134	618	764+26.824	-12.91	506.920
TM7046	668	764+27.295	-12.97	506.965
TM7138	668	764+37.538	-13.04	506.873
TM7139	668	764+47.57	-13.18	506.823
TM7142	668	764+57.695	-13.23	506.792
TM7143	668	764+66.706	-13.21	506.788
TM7146	668	764+77.568	-13.26	506.747
TM7147	668	764+87.57	-13.25	506.697
TM7150	668	764+97.539	-13.23	506.763
TM7151	668	765+07.552	-13.16	506.789
TM7154	668	765+17.628	-13.22	506.765
TM7155	668	765+27.677	-13.22	506.828

SOUTH END SN:065-0501 WEST LANE EDGE				
POINT	CODE	STATION	OFFSET	ELEVATION
TM7091	619	751+11.121	-12.24	506.867
TM7088	619	751+01.83	-12.16	506.861
TM7087	619	750+91.089	-12.27	506.804
TM7084	619	750+81.215	-12.27	506.811
TM7083	619	750+72.201	-12.26	506.758
TM7079_1	619	750+60.968	-12.26	506.728
TM7078	618	750+60.582	-12.18	506.759
TM7076	618	750+57.72	-12.26	506.751
TM7074	618	750+44.139	-12.35	506.619
TM7070_2	618	750+28.789	-12.33	506.623
TM7069	668	750+28.311	-12.32	506.614
TM7066	668	750+18.629	-12.29	506.577
TM7063	668	750+08.538	-12.30	506.510
TM7062	668	749+98.25	-12.32	506.449
TM7059	668	749+88.526	-12.30	506.429
TM7058	668	749+79.616	-12.31	506.434
TM7055	668	749+69.555	-12.25	506.435
TM7054	668	749+59.595	-12.21	506.405
TM7051	668	749+49.692	-12.18	506.382
TM7050	668	749+38.935	-12.12	506.378

NORTH END SN:065-0501 CENTERLINE				
POINT	CODE	STATION	OFFSET	ELEVATION
TM7201	619	763+55.221	0.00	507.457
TM7202	619	763+65.194	-0.24	507.415
TM7203	619	763+75.255	-0.24	507.400
TM7204	619	763+85.182	-0.20	507.378
TM7205	619	763+95.213	-0.40	507.350
TM7187	619	764+05.216	-0.43	507.380
TM7125	618	764+05.718	-0.41	507.394
TM7208	618	764+08.664	-0.50	507.438
TM7209	618	764+20.492	-0.52	507.266
TM7134_1	618	764+35.53	-0.52	506.994
TM7211	667	764+35.924	-0.53	506.973
TM7212	667	764+45.531	-0.68	506.969
TM7213	667	764+55.673	-0.75	506.956
TM7214	667	764+65.664	-0.75	506.941
TM7215	667	764+76.196	-0.75	506.925
TM7216	667	764+86.144	-0.80	506.892
TM7217	667	764+96.497	-0.83	506.888
TM7218	667	765+05.239	-0.68	506.890
TM7219	667	765+15.213	-0.66	506.852
TM7220	667	765+25.097	-0.59	506.862

SOUTH END SN:065-0501 CENTERLINE				
POINT	CODE	STATION	OFFSET	ELEVATION
TM7092	619	751+19.697	0.02	507.112
TM7093	619	751+10.092	0.00	507.064
TM7094	619	750+99.82	-0.02	507.021
TM7095	619	750+89.73	-0.03	506.999
TM7096	619	750+80.133	-0.09	506.967
TM7079	619	750+69.676	0.03	506.961
TM7014	618	750+69.229	0.10	506.939
TM7099	618	750+52.947	0.03	506.814
TM7100	618	750+37.461	0.14	506.797
TM7070_1	618	750+37.099	0.22	506.803
TM7102	667	750+30.559	0.10	506.739
TM7103	667	750+20.556	0.02	506.643
TM7104	667	750+10.325	0.09	506.634
TM7105	667	750+00.63	-0.02	506.635
TM7106	667	749+90.986	0.13	506.614
TM7107	667	749+80.891	0.18	506.590
TM7108	667	749+71.131	0.19	506.575
TM7109	667	749+60.733	0.15	506.553
TM7110	667	749+50.699	0.18	506.521
TM7111	667	749+41.426	0.14	506.464

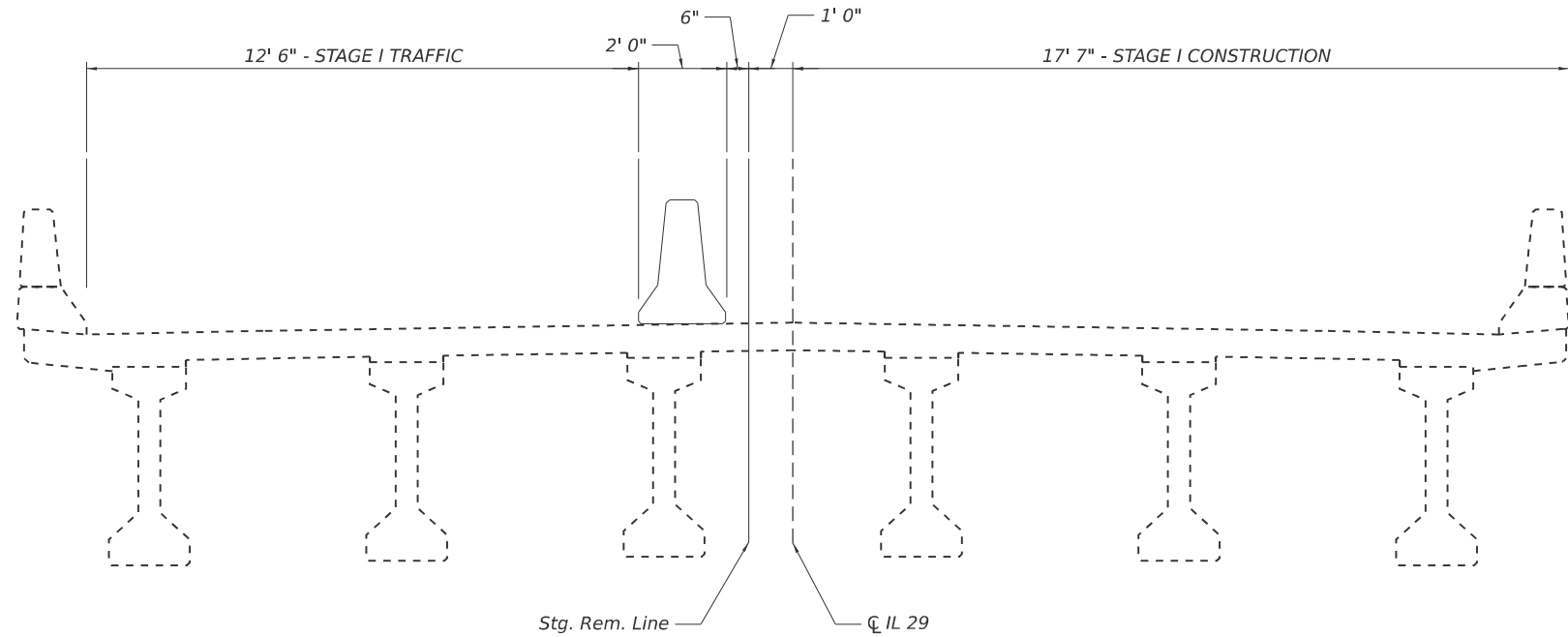
NORTH END SN:065-0501 EAST LANE EDGE				
POINT	CODE	STATION	OFFSET	ELEVATION
TM7199	619	763+63.775	11.76	507.323
TM7198	619	763++73.452	11.60	507.282
TM7195	619	763+83.897	11.50	507.248
TM7194	619	763+93.84	11.54	507.228
TM7190	619	764+03.805	11.43	507.240
TM7187_1	619	764+13.662	11.46	507.190
TM7186	618	764+14	11.33	507.225
TM7184	618	764+16.84	11.45	507.236
TM7183	618	764+29.946	11.34	507.014
TM7179_2	618	764+43.919	11.26	506.807
TM7048	668	764+44.272	11.19	506.806
TM7175	668	764+54.022	11.27	506.808
TM7174	668	764+64.051	11.24	506.804
TM7171	668	764+74.234	11.18	506.765
TM7170	668	764+84.78	11.19	506.693
TM7167	668	764+94.015	11.25	506.686
TM7166	668	765+04.086	11.22	506.699
TM7163	668	765+14.017	11.29	506.682
TM7162	668	765+24.208	11.40	506.690
TM7159	668	765+34.465	11.46	506.671
TM7158	668	765+43.979	11.42	506.674

SOUTH END SN:065-0501 EAST LANE EDGE				
POINT	CODE	STATION	OFFSET	ELEVATION
TM7001	619	751+27.878	12.07	506.941
TM7004	619	751+17.835	12.15	506.920
TM7005	619	751+08.584	12.11	506.905
TM7008	619	750+98.356	12.23	506.874
TM7011	619	750+87.847	12.00	506.861
TM7013	619	750+78.029	11.96	506.815
TM7014_1	618	750+77.606	11.99	506.831
TM7017	618	750+74.574	11.86	506.804
TM7021	618	750+60.582	12.05	506.679
TM7023	618	750+46.076	11.97	506.607
TM7024	668	750+45.381	12.02	506.609
TM7027	668	750+36.091	12.05	506.570
TM7028	668	750+26.23	12.02	506.551
TM7031	668	750+15.351	12.00	506.522
TM7032	668	75006.34	12.14	506.476
TM7035	668	749+95.229	12.11	506.430
TM7036	668	749+86.275	12.22	506.400
TM7039	668	749+76.196	12.21	506.401
TM7040	668	749+66.264	12.26	506.375
TM7043	668	749+56.228	12.26	506.397
TM7044	668	749+46.19	12.36	506.341

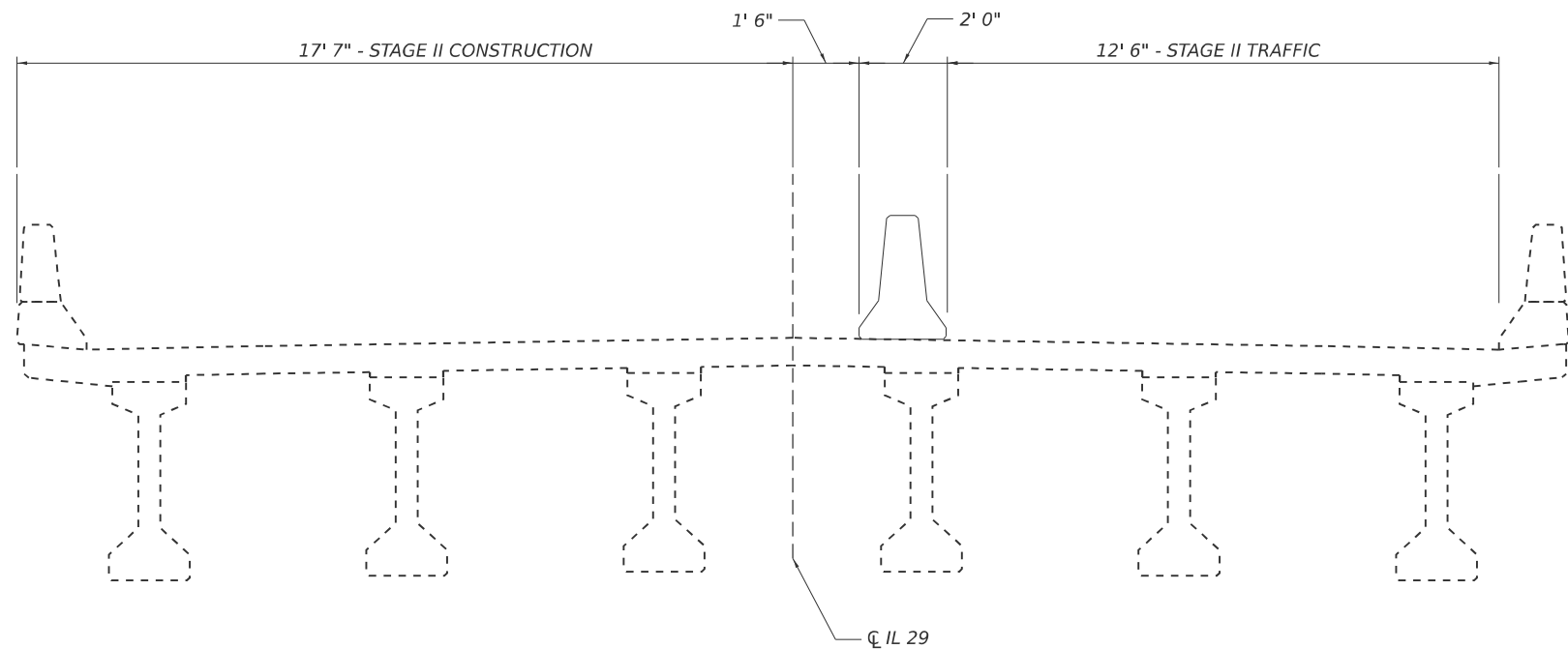
KEY	
	BRIDGE
	APPROCH
	PAVEMENT

NOTE: EXISTING PAVEMENT ELEVATIONS ARE INTENDED FOR USE IN APPROACH DIP CORRECTIONS AND ARE PROVIDED FOR INFORMATION ONLY.

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING ELEVATIONS (FOR INFORMATION ONLY)			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					658	K(B-1)BJR,BDR	MASON/MENARD	24	8
		CHECKED -	REVISED -					CONTRACT NO. 72973				
	PLOT DATE = 2/18/2025	DATE -	REVISED -					ILLINOIS FED.AID PROJECT				
SCALE:		SHEET 2 OF 5 SHEETS		STA.		TO STA.						



STAGE I TRAFFIC - LOOKING NORTH



STAGE II TRAFFIC - LOOKING NORTH

MODEL: traffic control [Sheet]
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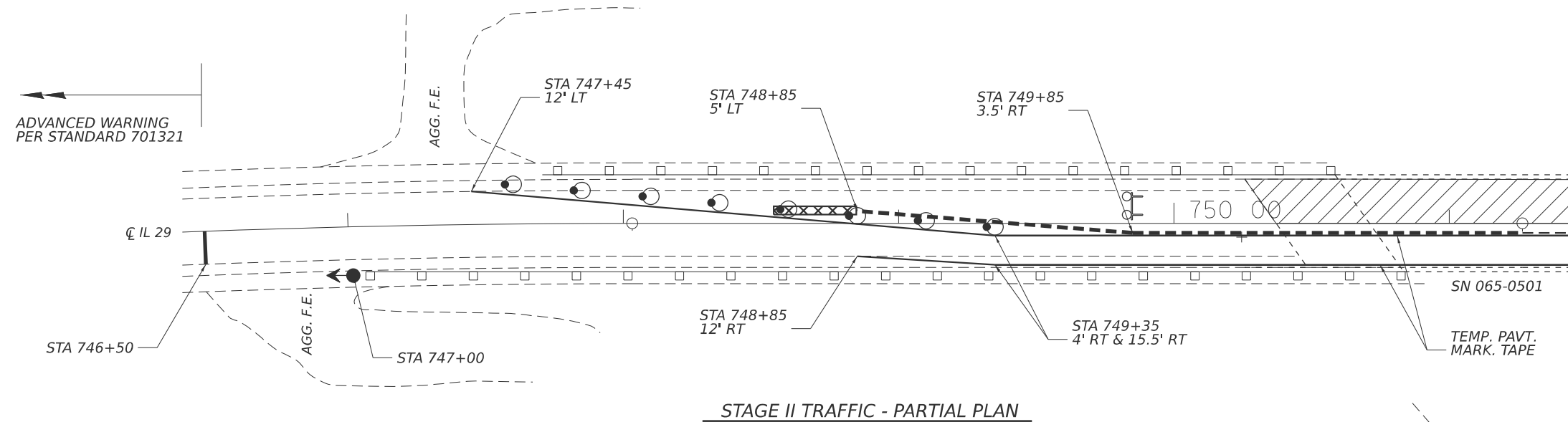
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		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 2/18/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

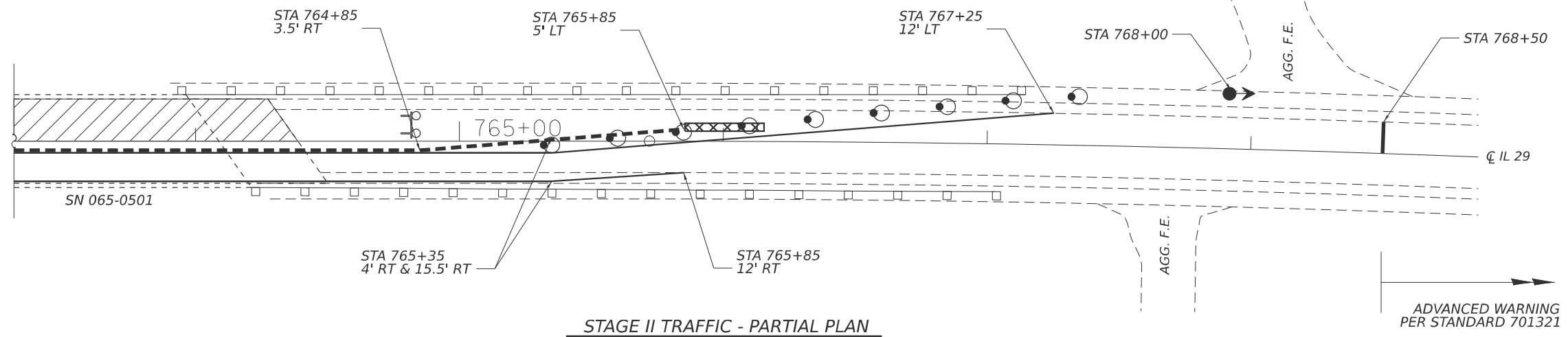
TRAFFIC STAGING DETAIL

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	9
			CONTRACT NO. 72973	
		ILLINOIS	FED. AID PROJECT	



STAGE II TRAFFIC - PARTIAL PLAN



STAGE II TRAFFIC - PARTIAL PLAN

SYMBOLS

- | | |
|---|---|
|  | WORK AREA |
|  | DRUM WITH STEADY BURN
BI-DIRECTIONAL LIGHT |
|  | TRAFFIC SIGNAL |
|  | TYPE III BARRICADE WITH
FLASHING LIGHTS |
|  | TEMPORARY CONCRETE BARRIER |
|  | IMPACT ATTENUATOR |

TRAFFIC CONTROL NOTES:

1. Traffic control devices not shown in this detail shall be per standard 701321. Devices and temporary pavement markings shown in this detail shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. Impact attenuators temporary rumble strips, temporary concrete barrier, and temporary traffic signals shall be paid separately.
2. Temporary concrete barrier offsets given in this detail refer to the edge of the barrier nearest to live traffic.

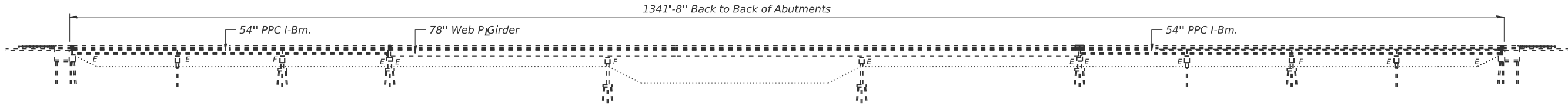
USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/18/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

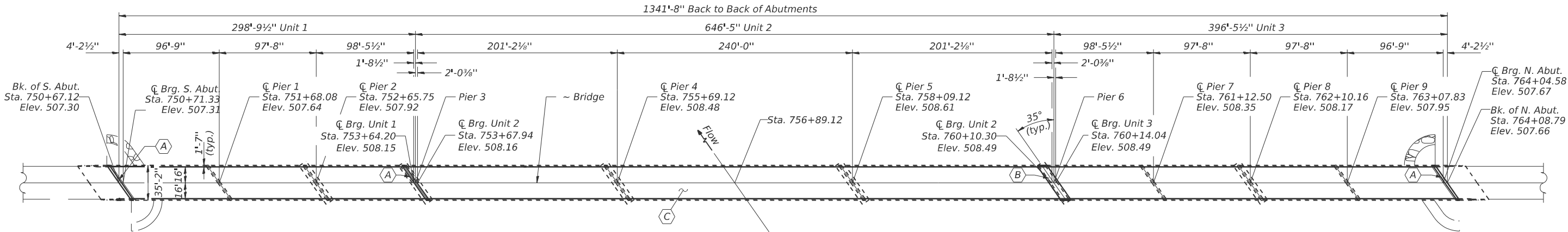
STAGE II TRAFFIC CONTROL PLAN

SCALE:	SHEET 5	OF 5	SHEETS	STA.	TO STA.
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	11
CONTRACT NO. 72973				
ILLINOIS		FED. AID PROJECT		

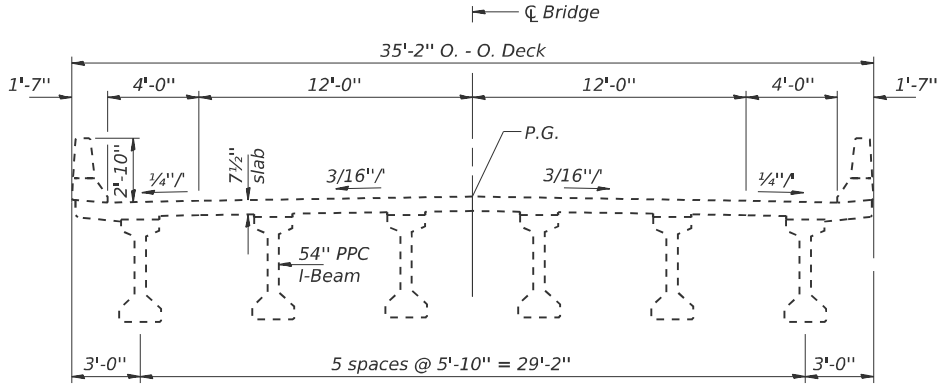


ELEVATION

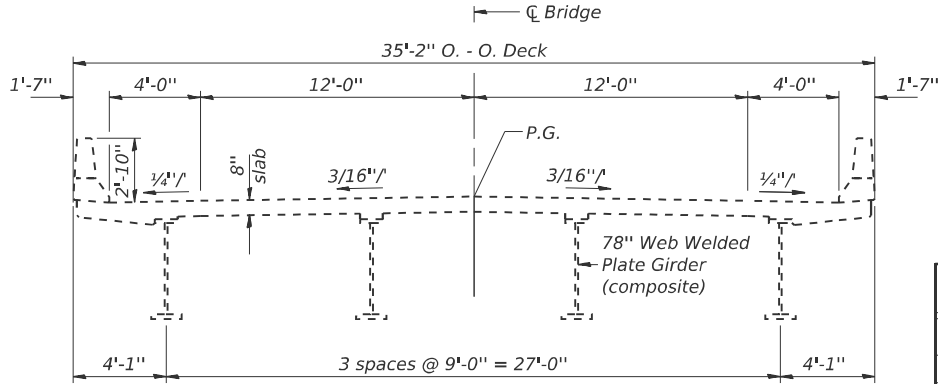


PLAN

- (A) - Remove polymer joint and replace with strip seal expansion joint.
- (B) - Remove and replace modular expansion joint.
- (C) - Scarify and place microsilica overlay.



CROSS SECTION
(Unit 1 or 3)



CROSS SECTION
(Unit 2)

STRUCTURE GENERAL NOTES:

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE MILL SCALE AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN CONCRETE REMOVAL.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

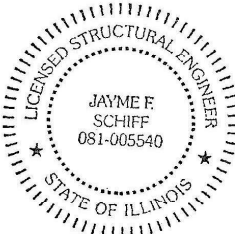
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50°F.

TOTAL BILL OF MATERIAL (065-0501)

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	29.1
Concrete Superstructure	Cu. Yd.	36.4
Reinforcement Bars, Epoxy Coated	Pound	5580
Bar Splicers	Each	72
Mechanical Splicers	Each	143
Preformed Joint Strip Seal	Foot	126
Modular Expansion Joint 9"	Foot	42
* Approach Slab Repair (Partial Depth)	Sq. Yd.	10
* Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	10
Drainage Scuppers To Be Adjusted	Each	30
Bridge Deck Scarification 3/4"	Sq. Yd.	4694
Bridge Deck Microsilica Concrete Overlay 2-3/4"	Sq. Yd.	4694
Diamond Grinding (Bridge Section)	Sq. Yd.	4800
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	3580
Protective Coat	Sq. Yd.	4772
Structural Repair Of Concrete (Depth Equal To Or Less Than 5")	Sq. Ft.	70
Temporary Shoring And Cribbing	Each	2
Stud Shear Connectors	Each	8

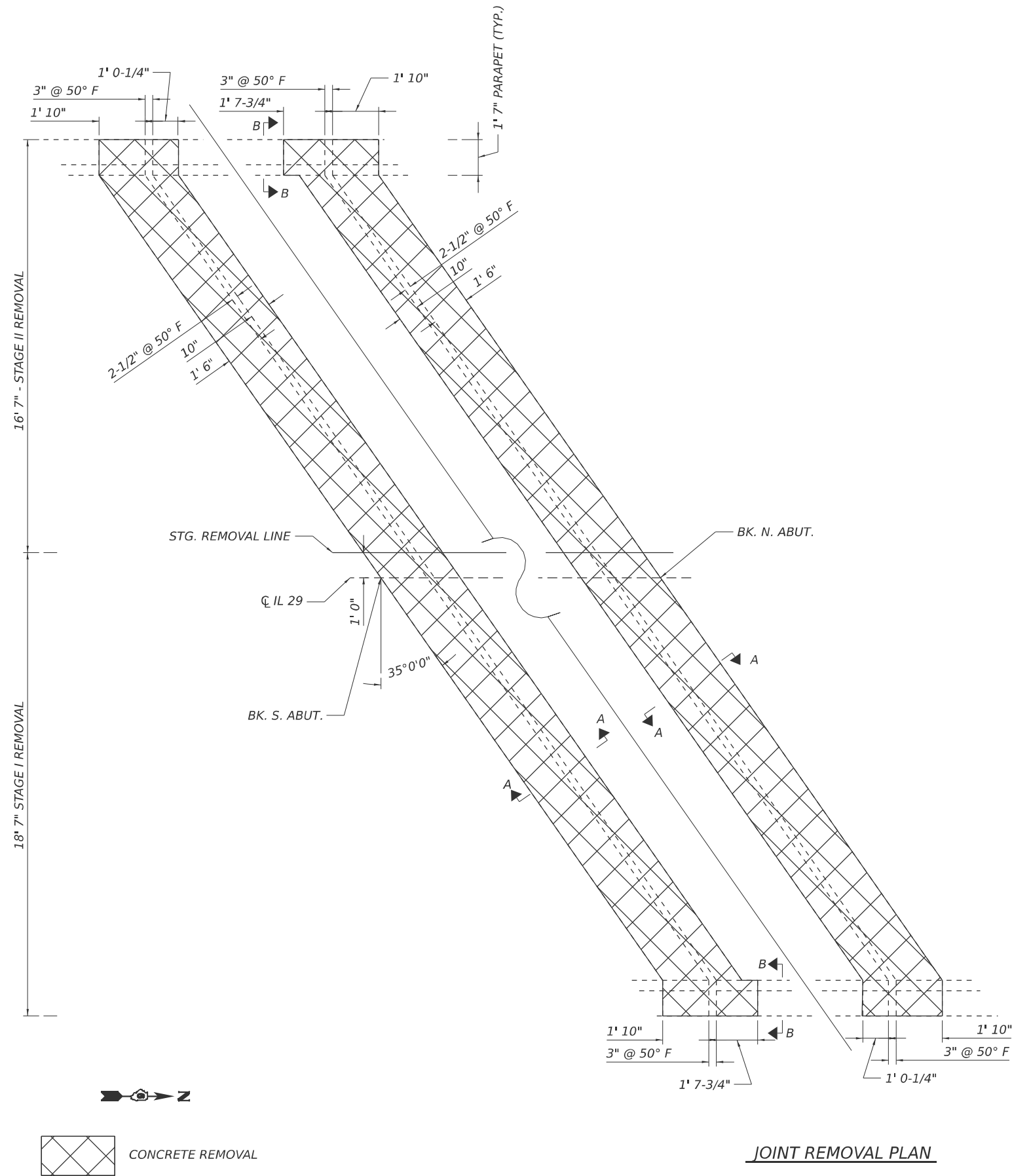
* Quantity is estimated. Location and size of patches to be determined in the field by the Engineer.



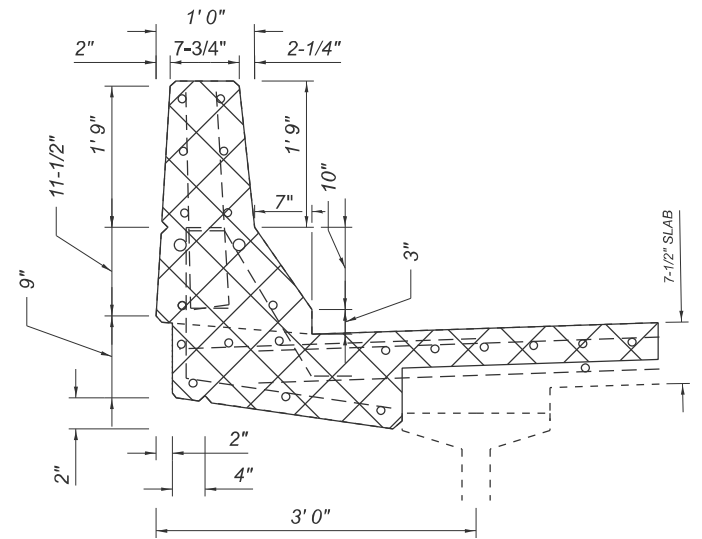
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PLOT DATE = 5/6/2025	USER NAME = brandon.dudley	DESIGNED - BRANDON DUDLEY	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE PLAN & ELEVATION SN 065-0501		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BRANDON DUDLEY	REVISED -				658	K(B-1)BJR,BDR	MASON/MENARD	24	12
		CHECKED -	REVISED -				CONTRACT NO. 72973				
		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:		SHEET 1	OF 13 SHEETS	STA.	TO STA.						

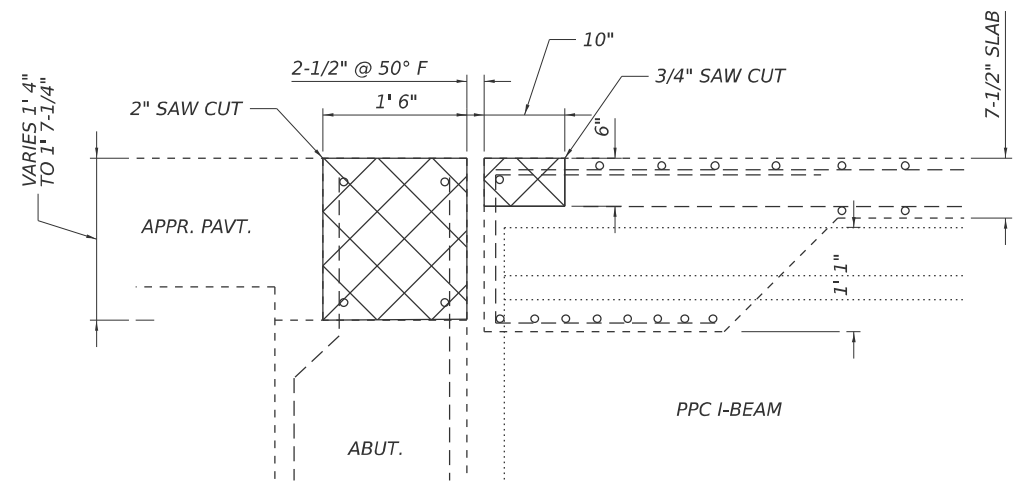
MODEL: Bridge-1 (Sheet)
FILE NAME: c:\p\work\pav\joints\dudley\cml\1065126\72973 plansheet.dgn



JOINT REMOVAL PLAN



SECTION B-B



SECTION A-A

	USER NAME = brandon.dudley	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
	PLOT DATE = 2/18/2025	DATE -	REVISED -

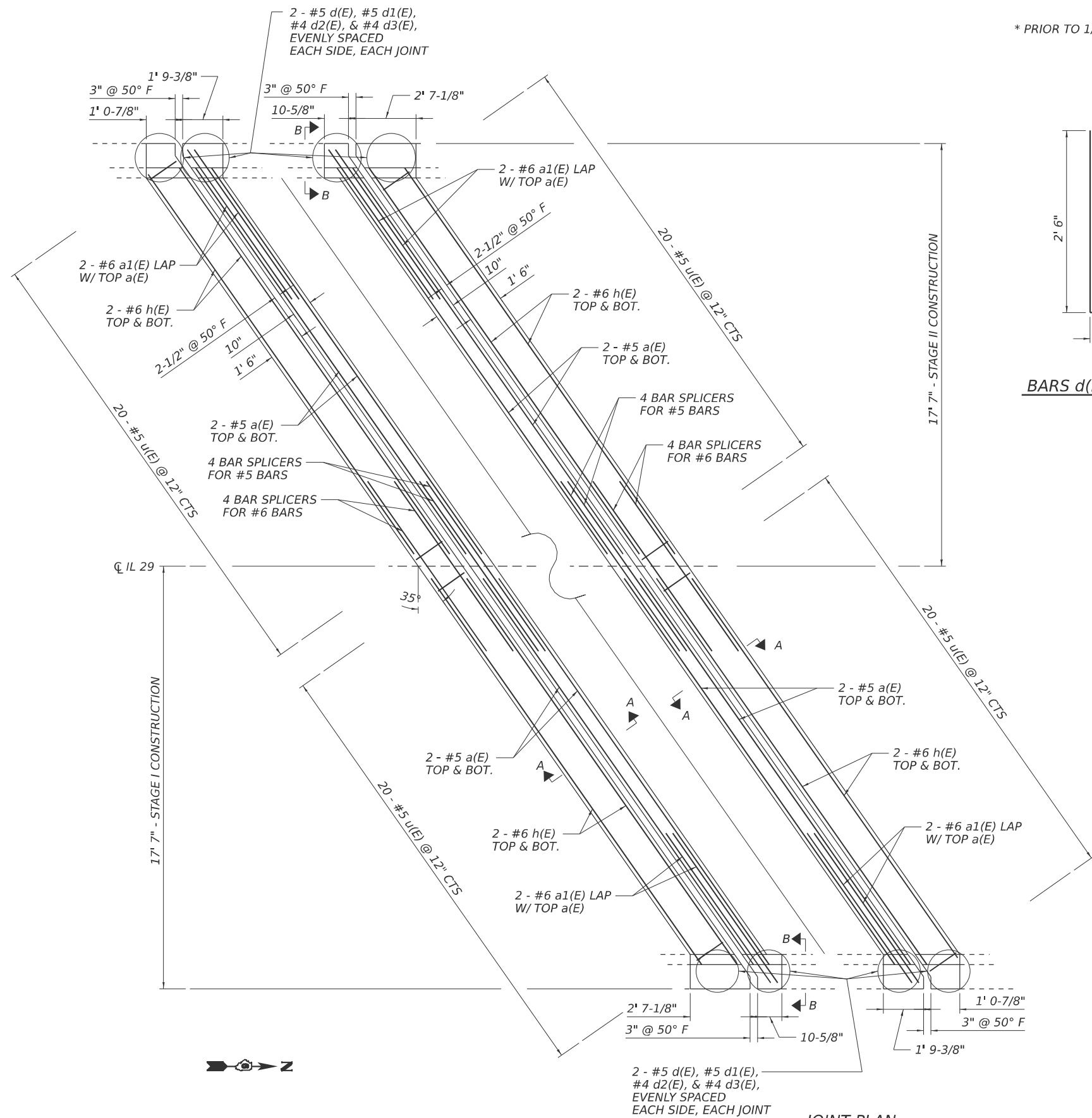
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT JOINT REMOVAL PLAN
SN 065-0501

SCALE: SHEET 2 OF 13 SHEETS STA. TO STA.

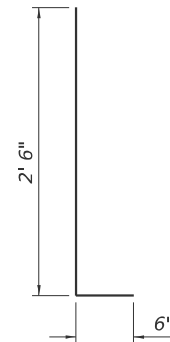
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	13
CONTRACT NO. 72973				
ILLINOIS FED. AID PROJECT				

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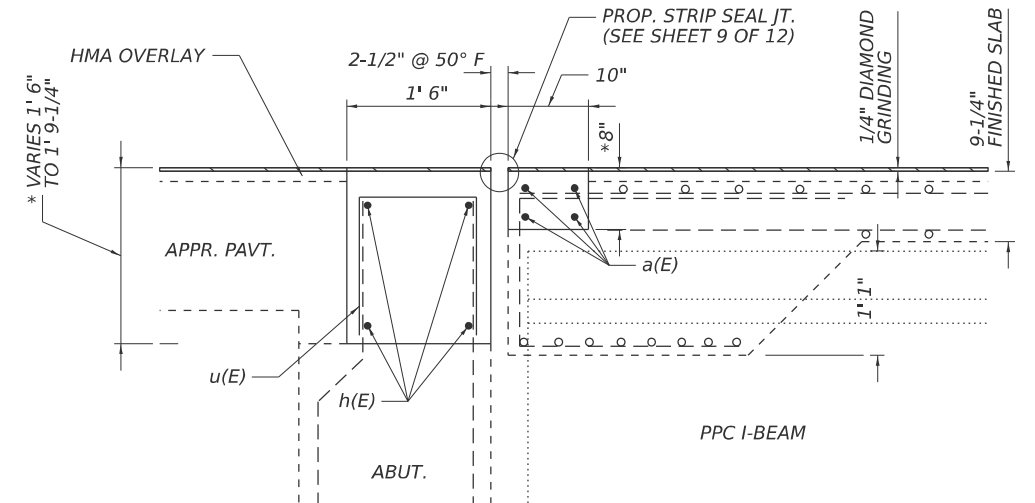


JOINT PLAN

* PRIOR TO 1/4" GRINDING

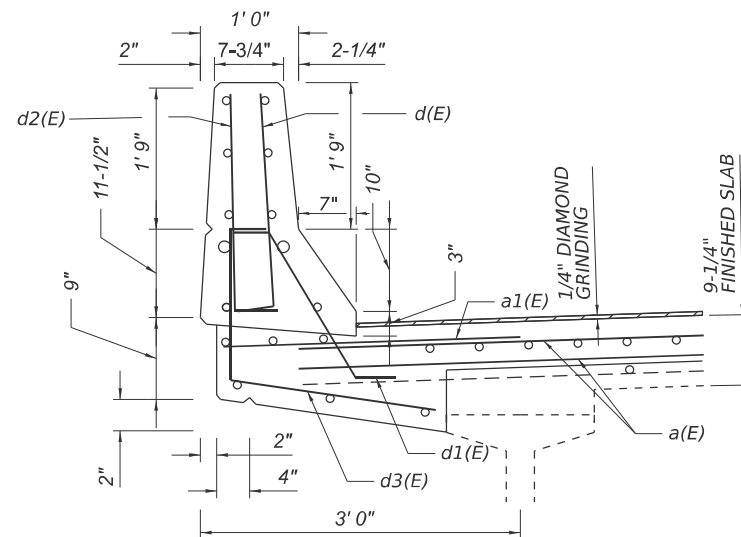


BARS d(E) & d2(E)

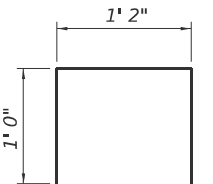


SECTION A-A

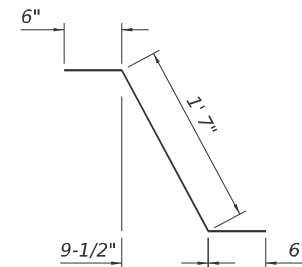
NOTE: DIMENSIONS BASED ON ROLLED RAIL JOINT (SEE SHEET 9 OF 13)



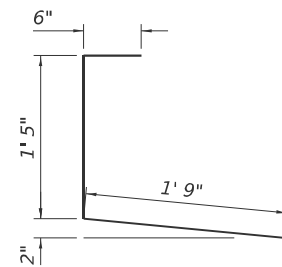
SECTION B-B



BAR u(E)



BAR d1(E)



BAR d3(E)

**ABUTMENT JOINTS
BILL OF MATERIAL (2 JOINTS)**

Bar	No.	Size	Length	Shape
a(E)	16	#5	20'-0"	—
a1(E)	8	#6	4'-11"	—
d(E)	16	#5	3'-0"	┘
d1(E)	16	#5	2'-7"	┘
d2(E)	16	#4	3'-0"	┘
d3(E)	16	#4	3'-8"	┘
h(E)	16	#6	20'-7"	—
u(E)	80	#5	3'-2"	┘
Concrete Removal			Cu. Yd.	9.6
Concrete Superstructure			Cu. Yd.	10.9
Reinforcement Bars, Epoxy Coated			Pound	1320
Bar Splicers			Each	16

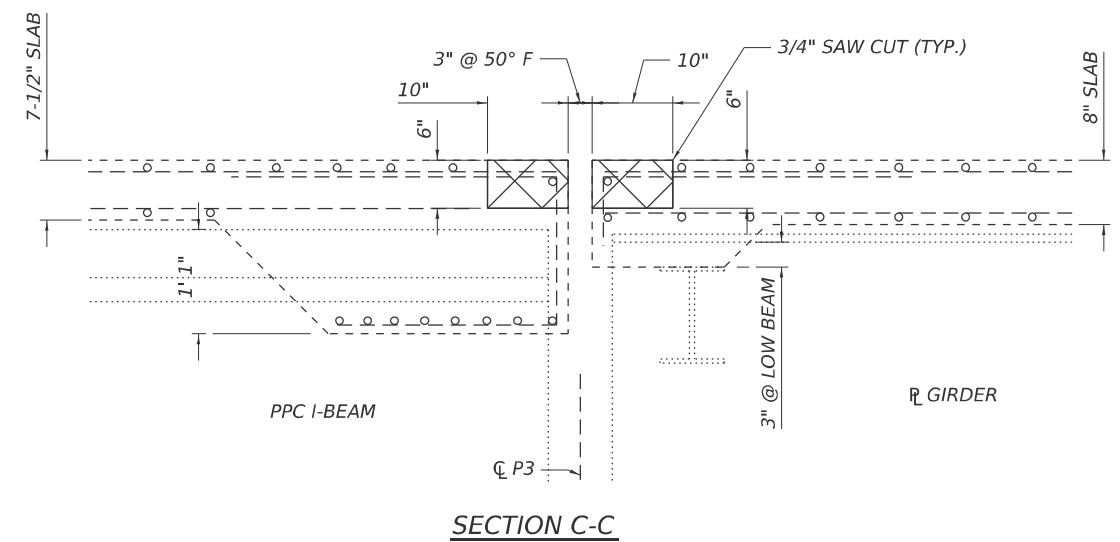
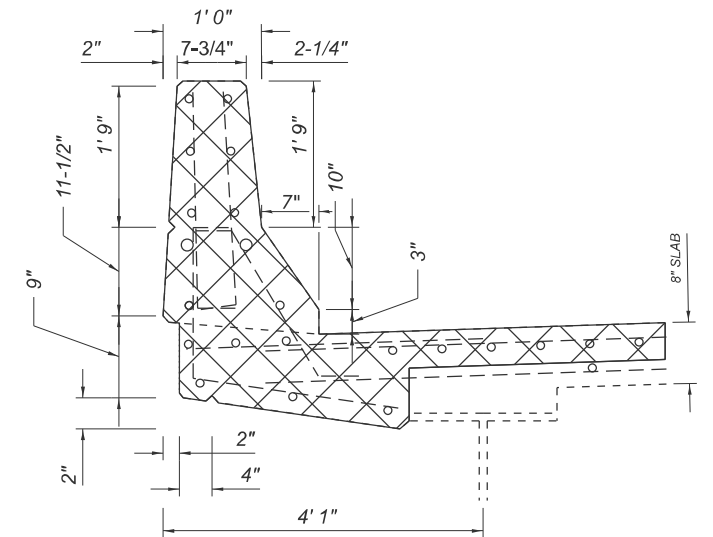
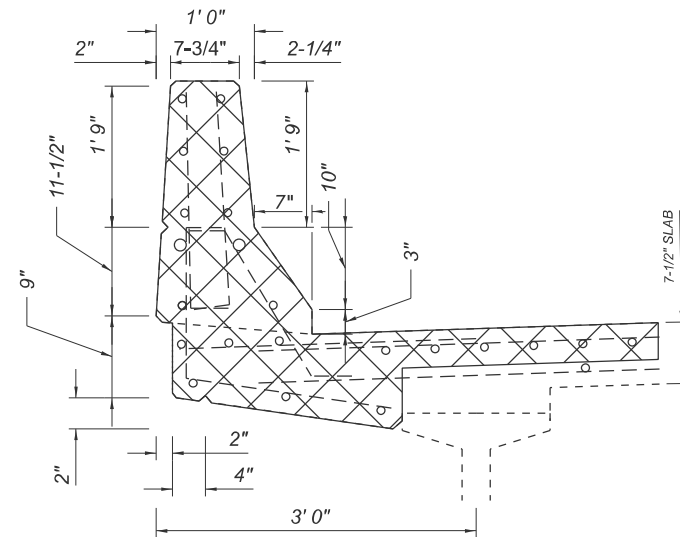
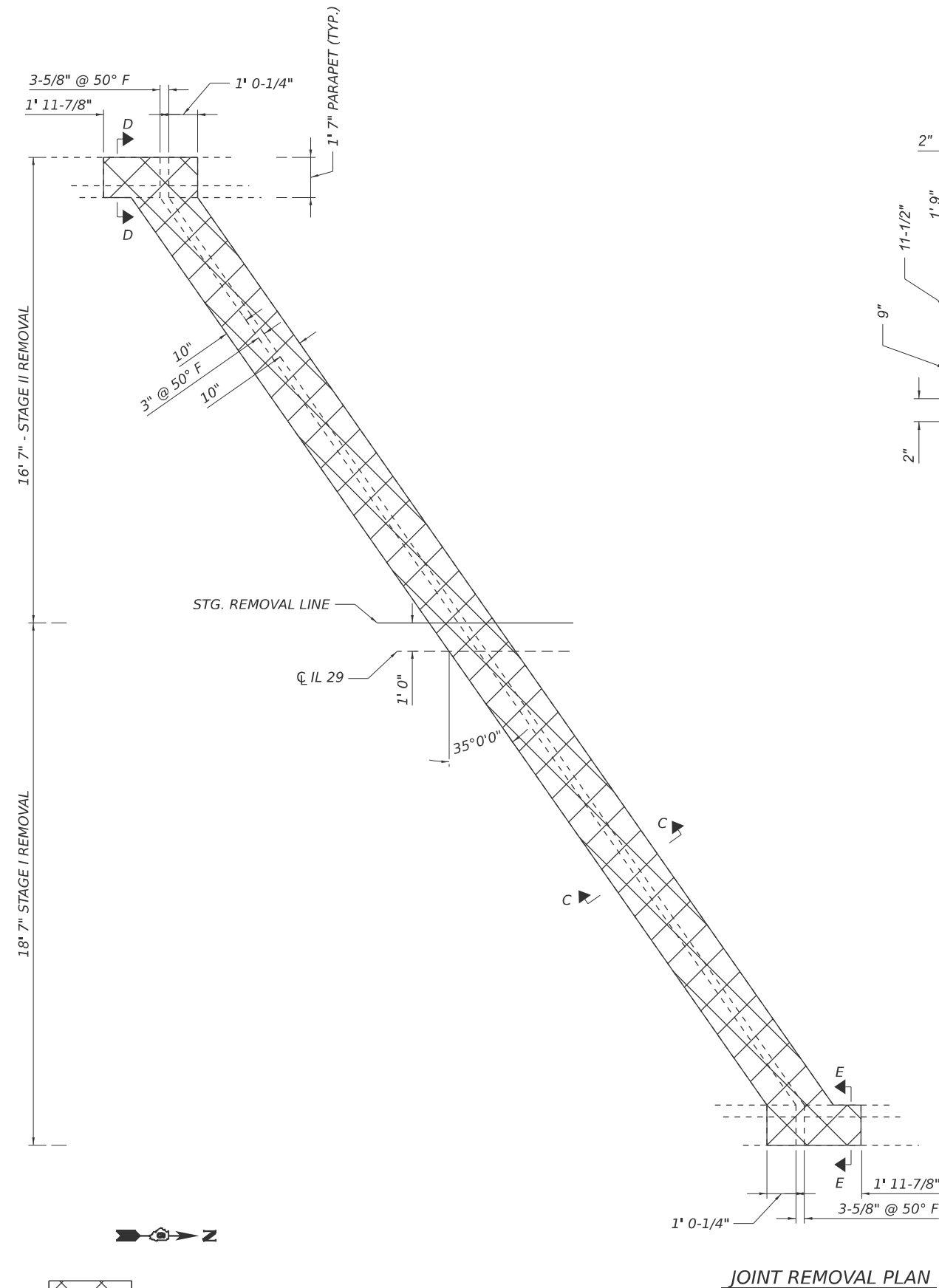
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		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 2/18/2025	DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT JOINT PLAN
SN 065-0501**

SCALE: SHEET 3 OF 13 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	14
CONTRACT NO. 72973				
ILLINOIS FED. AID PROJECT				



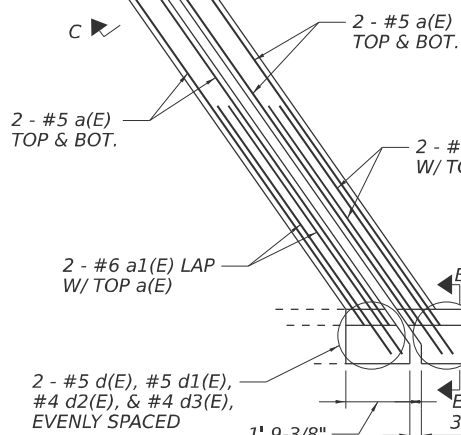
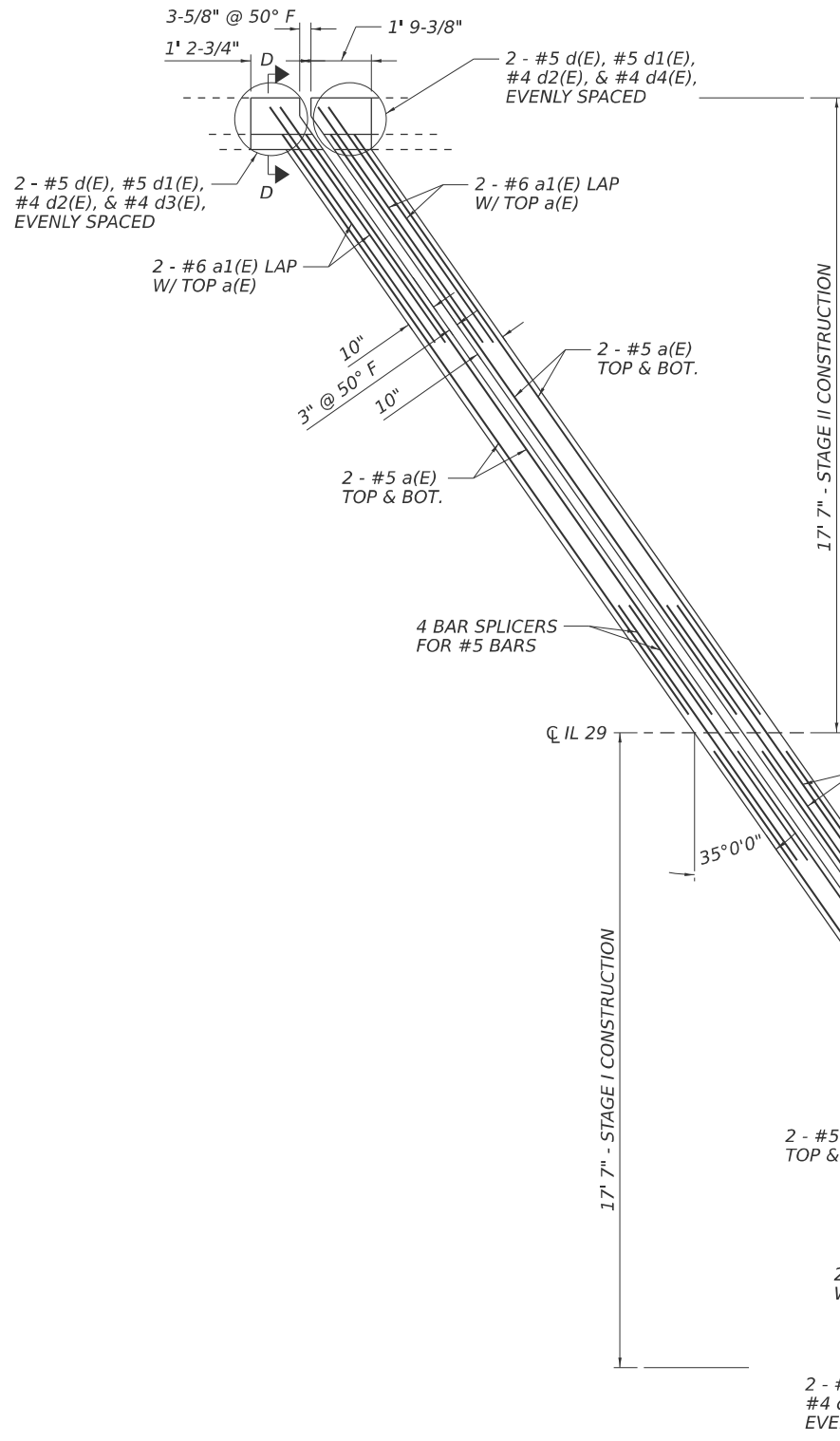
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/18/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

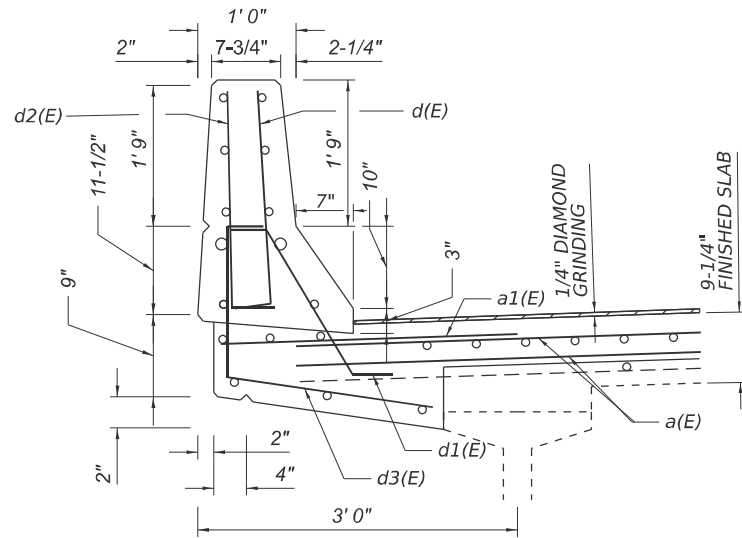
PIER 3 JOINT REMOVAL PLAN SN 065-0501					
SCALE:	SHEET 4	OF 13	SHEETS	STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	15
CONTRACT NO. 72973				
ILLINOIS		FED. AID PROJECT		

MODEL: Bridge-4 (Sheet)
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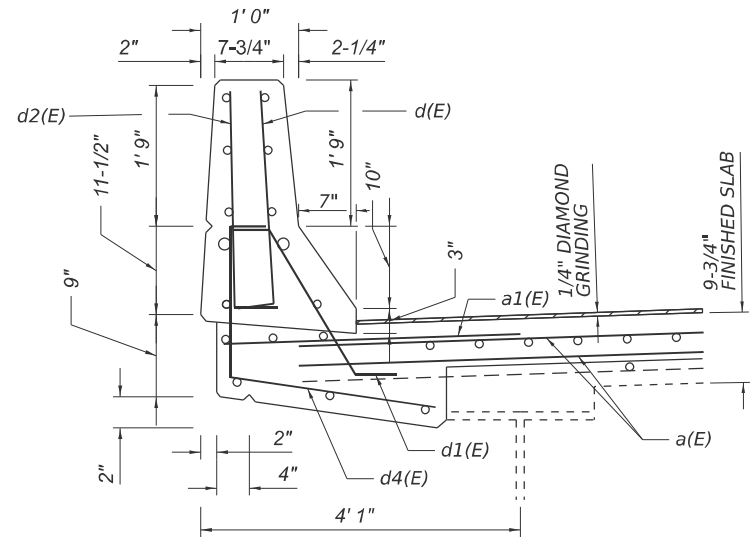


JOINT PLAN

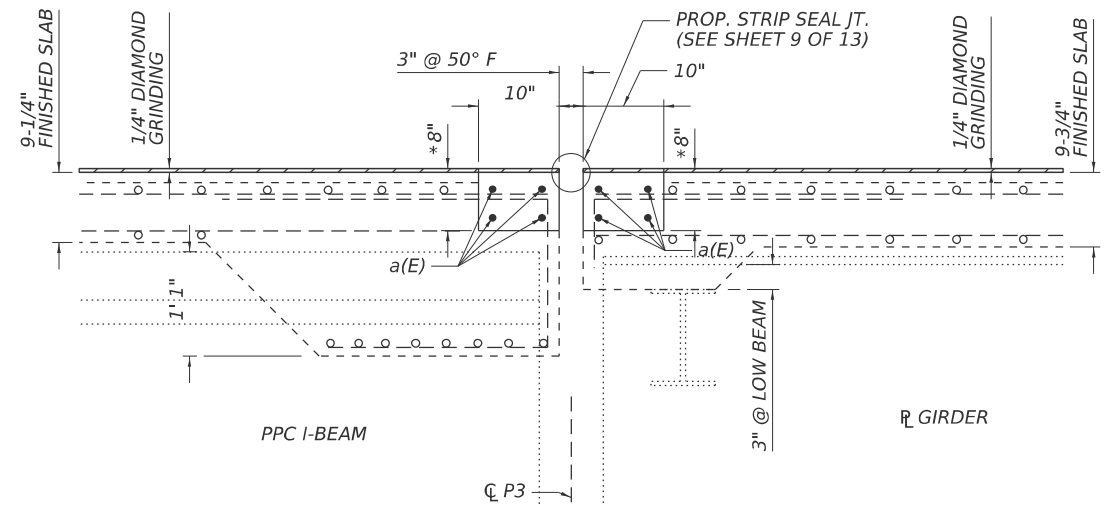


SECTION D-D

* PRIOR TO 1/4" GRINDING

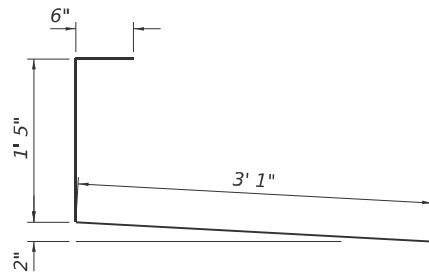


SECTION E-E



SECTION C-C

NOTE: DIMENSIONS BASED ON ROLLED RAIL JOINT (SEE SHEET 9 OF 13)



BAR d4(E)

PIER 3 JOINT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#5	20'-0"	—
a1(E)	8	#6	4'-11"	—
d(E)	8	#5	3'-0"	┐
d1(E)	8	#5	2'-7"	┐
d2(E)	8	#4	3'-0"	┐
d3(E)	4	#4	3'-8"	┐
d4(E)	4	#4	5'-0"	┐
Concrete Removal			Cu. Yd.	1.9
Concrete Superstructure			Cu. Yd.	2.4
Reinforcement Bars, Epoxy Coated			Pound	480
Bar Splicers			Each	8

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/18/2025	DATE -	REVISED -

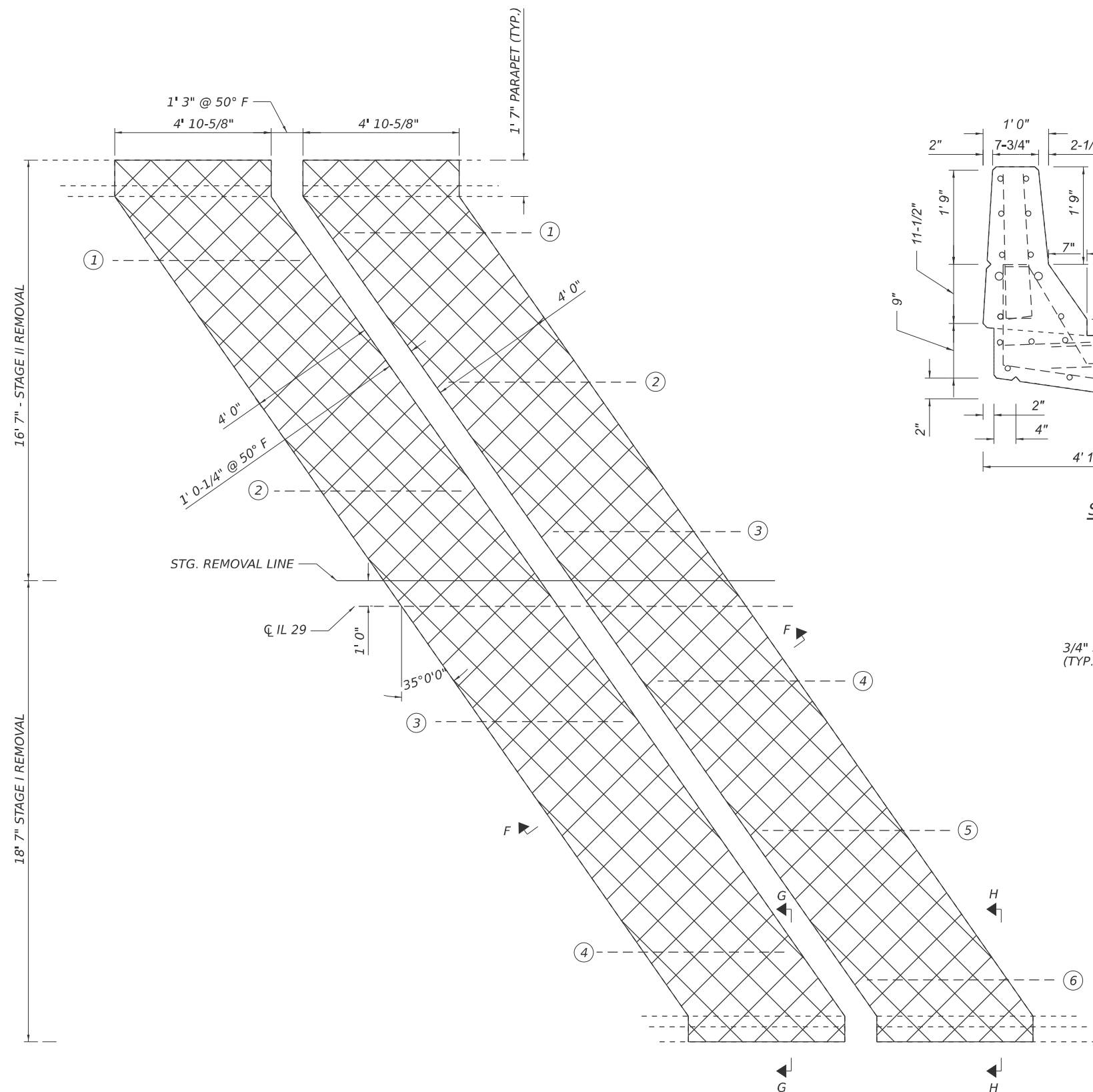
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3 JOINT PLAN
SN 065-0501

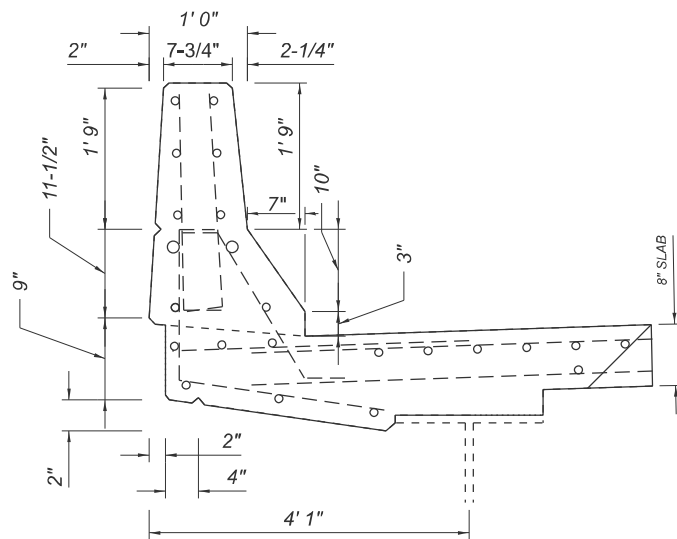
SCALE: SHEET 5 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	16
CONTRACT NO. 72973				
ILLINOIS FED. AID PROJECT				

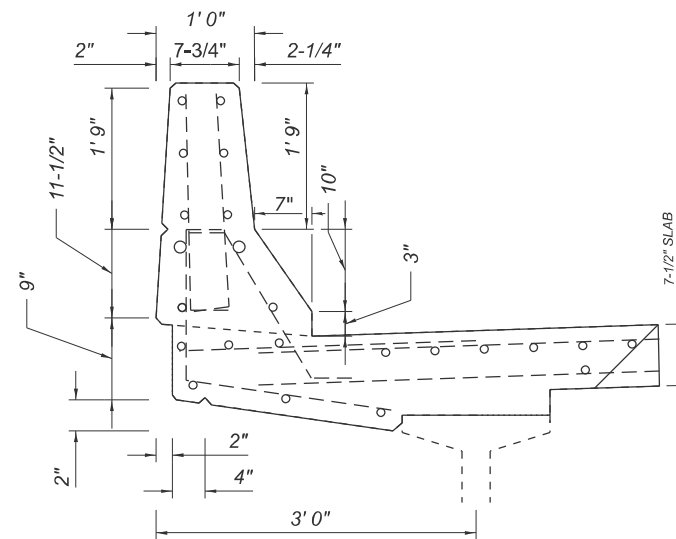
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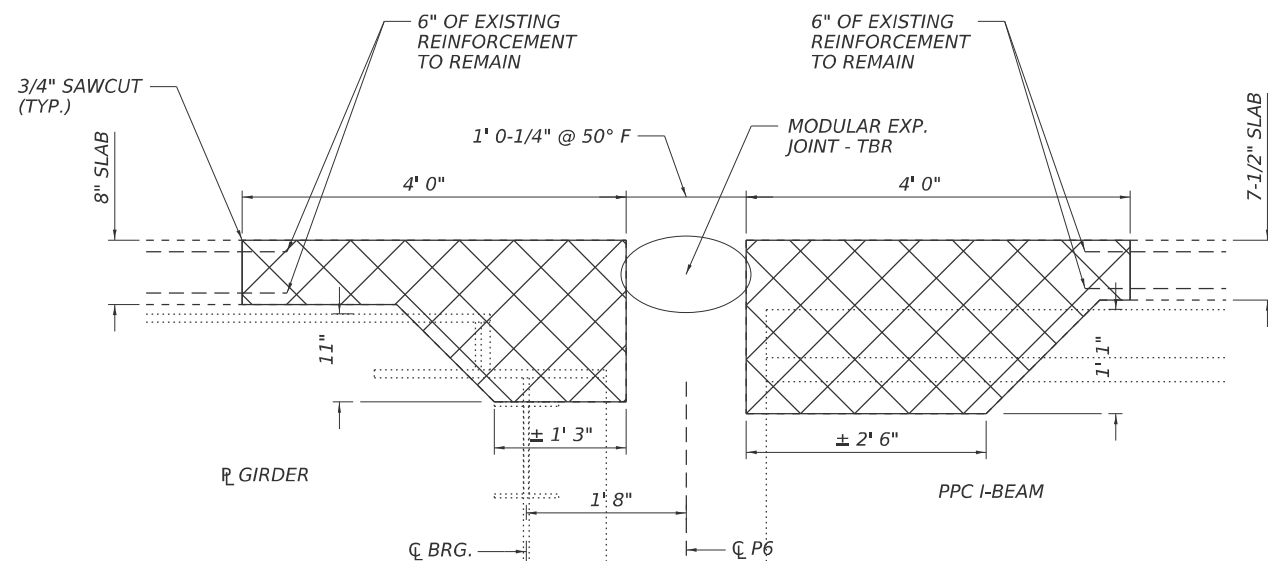
JOINT REMOVAL PLAN



SECTION G-G



SECTION H-H



SECTION F-F



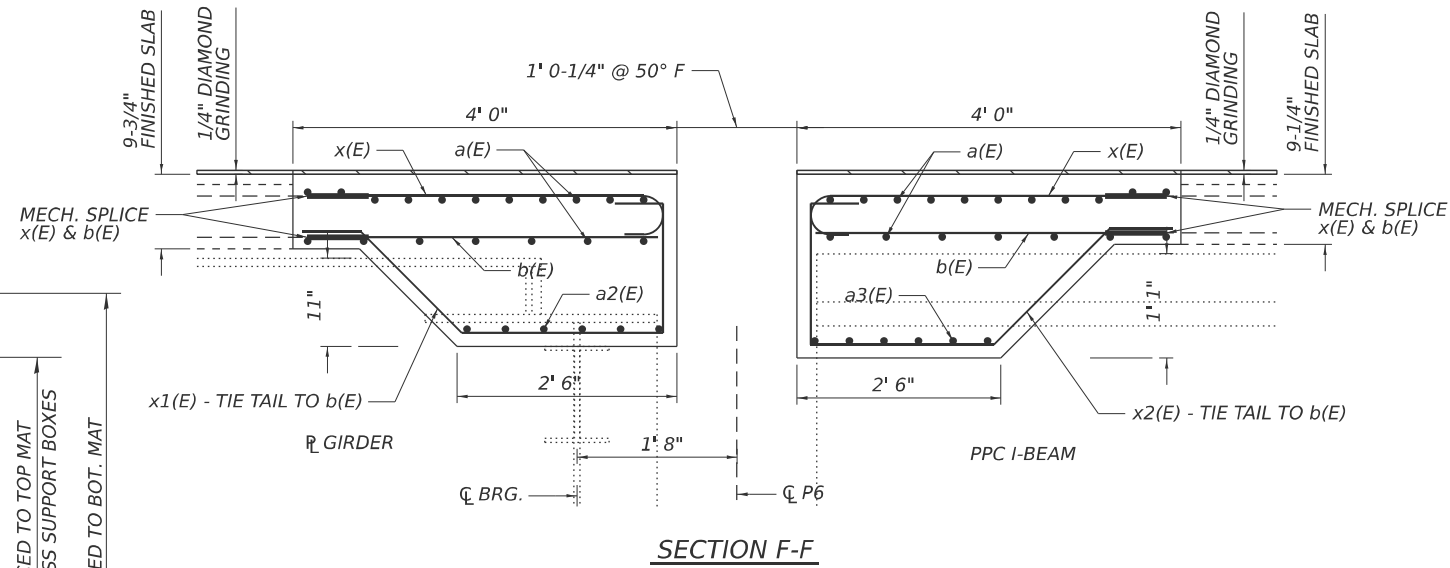
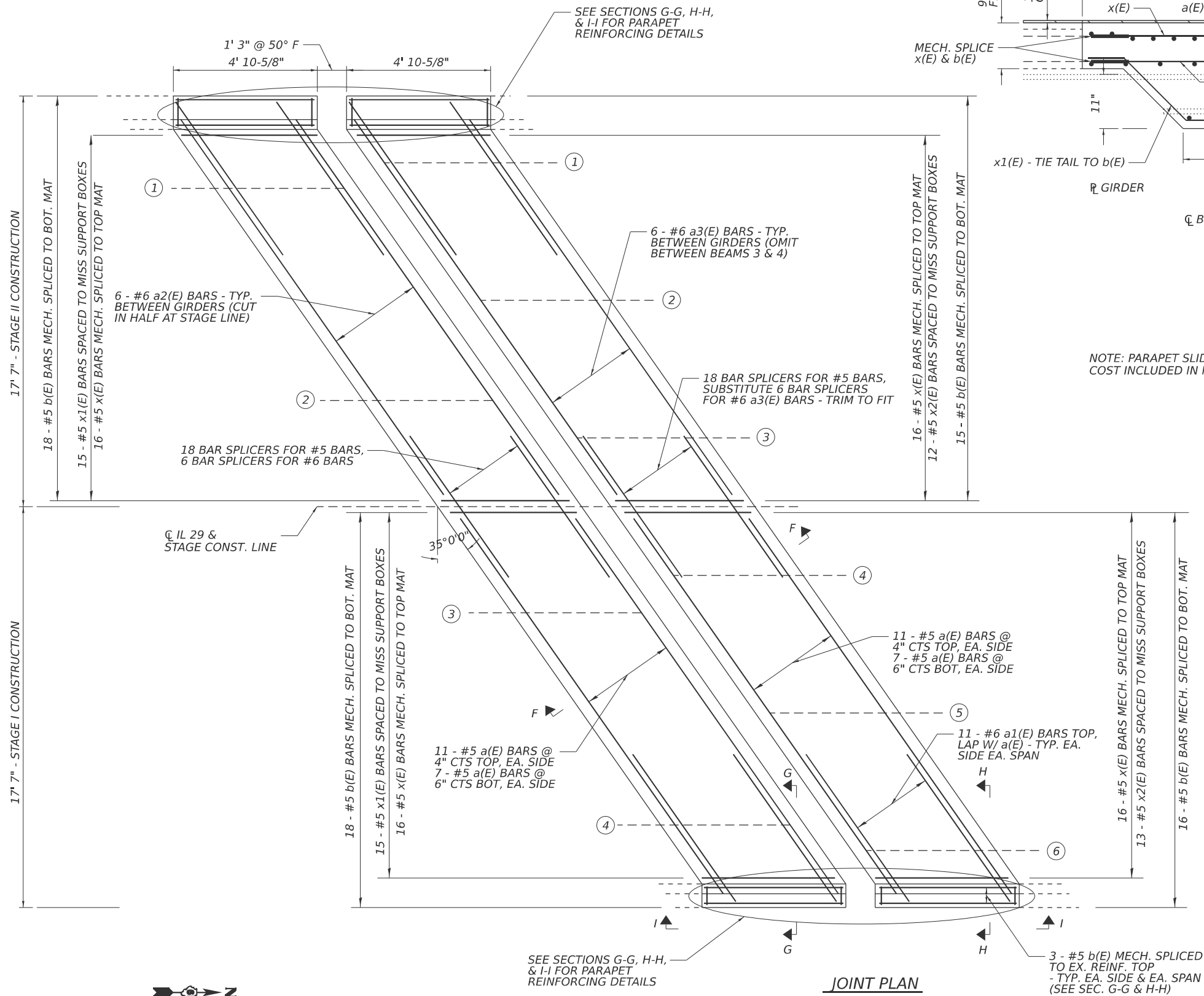
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 6 JOINT REMOVAL PLAN
SN 065-0501

SCALE: SHEET 6 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	17
CONTRACT NO. 72973				
ILLINOIS FED. AID PROJECT				

MODEL: Bridge-6 [Sheet]
FILE NAME: c:\ppl_work\pwork\dudley\cml\1065126\72973 plansheet.dgn



NOTE: PARAPET SLIDING PLATES SHALL BE INSTALLED AT PIER 6 ACCORDING TO THE DETAIL ON SHEET 9 OF 13, COST INCLUDED IN MODULAR EXPANSION JOINT 9".

PIER 6 JOINT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	72	#5	20'-0"	—
a1(E)	44	#6	4'-11"	—
a2(E)	18	#6	10'-6"	—
a3(E)	24	#6	6'-2"	—
b(E)	79	#5	4'-2"	—
b1(E)	14	#5	2'-10"	—
d(E)	20	#5	3'-0"	┘
d1(E)	20	#5	2'-7"	┘
d2(E)	20	#4	3'-0"	┘
d3(E)	10	#4	3'-8"	┘
d4(E)	10	#4	5'-0"	┘
d5(E)	8	#5	8'-1"	┘
d6(E)	8	#5	6'-10"	┘
d7(E)	6	#5	2'-0"	┘
x(E)	64	#5	4'-9"	┘
x1(E)	30	#5	6'-8"	┘
x2(E)	25	#5	7'-0"	┘
Concrete Removal			Cu. Yd.	17.6
Concrete Superstructure			Cu. Yd.	23.1
Reinforcement Bars, Epoxy Coated			Pound	3780
Bar Splicers			Each	48
Mechanical Splicers			Each	143
Stud Shear Connectors			Each	8



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

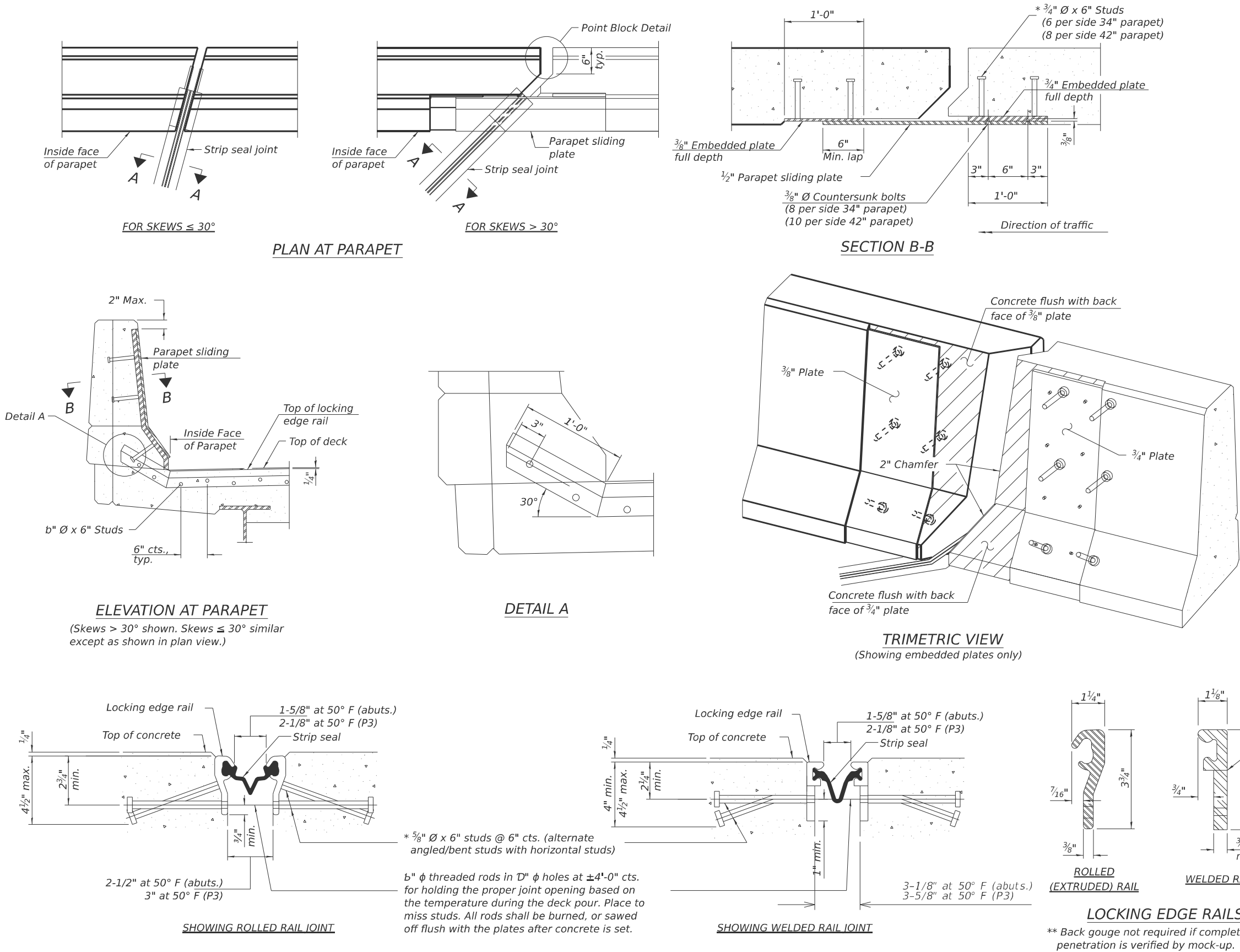
PIER 6 JOINT PLAN
SN 065-0501

SCALE: SHEET 7 OF 13 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	18
CONTRACT NO. 72973				
ILLINOIS FED. AID PROJECT				

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/25/2025	DATE -	REVISED -

MODEL: Bridge-3 (Sheet)
FILE NAME: c:\p\work\dwg\bridge\cml\1065126\72973 plansheet.dgn



Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{1}{8}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	126

EJ-SS

8-11-17

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/18/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 065-0501

SCALE: SHEET 9 OF 13 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	20
CONTRACT NO. 72973				
ILLINOIS FED.AID PROJECT				

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BSD-1

5-15-2023

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		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
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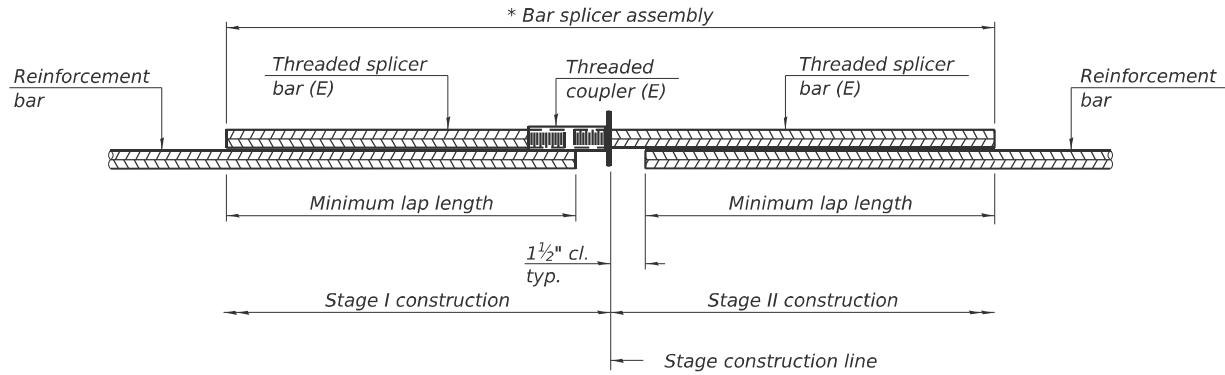
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY & MECHANICAL SPLICER DETAILS
SN 065-0501

SCALE: SHEET 10 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	K(B-1)BJR,BDR	MASON/MENARD	24	21
CONTRACT NO. 72973				
ILLINOIS		FED. AID PROJECT		

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.



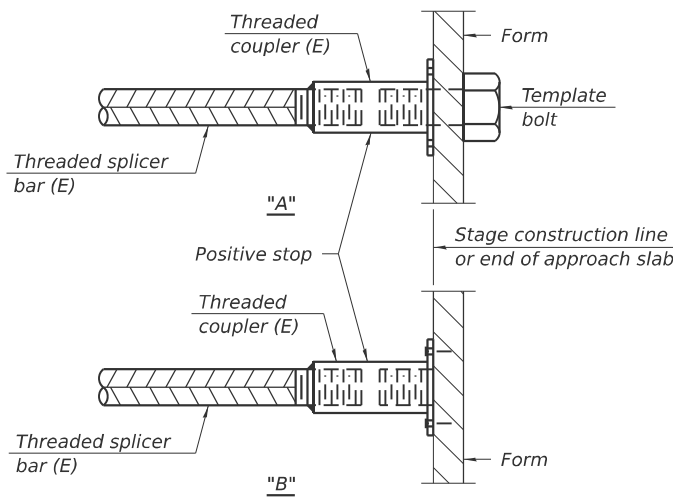
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Abut. Jts. (deck)	#5	8	3'-6"
Abut. Jts. (appr.)	#6	8	4'-0"
Pier 3 Jt.	#5	8	3'-6"
Pier 6 Jt.	#5	36	3'-6"
Pier 6 Jt.	#6	12	4'-0"

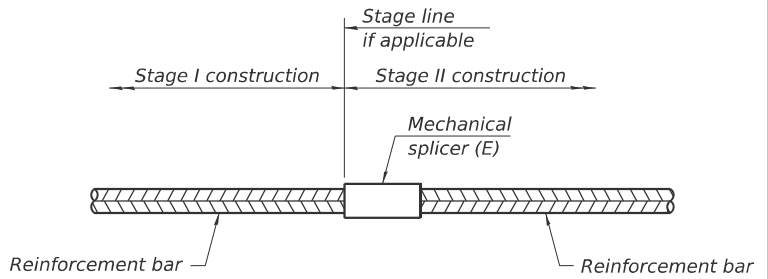


INSTALLATION AND SETTING METHODS

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

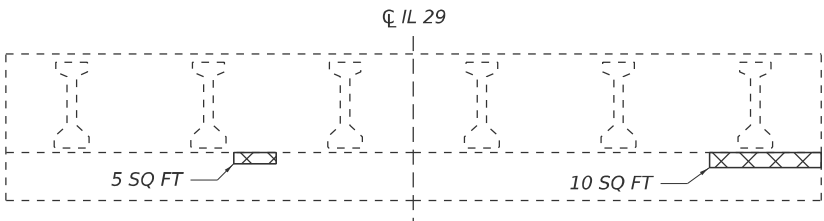
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.

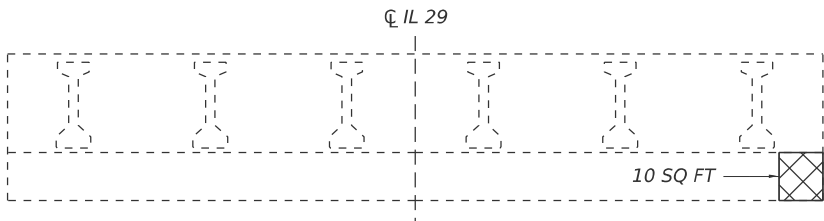


STANDARD MECHANICAL SPLICER

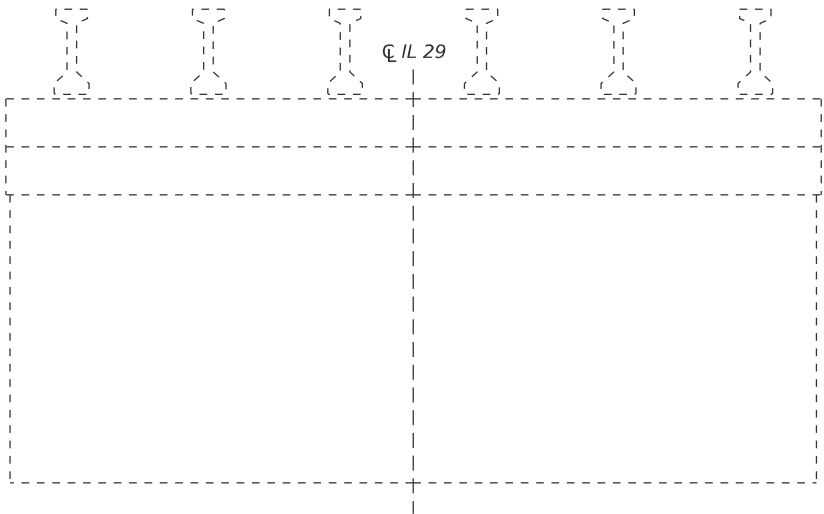
Location	Bar size	No. assemblies required
Pier 6 Jt.	#5	143



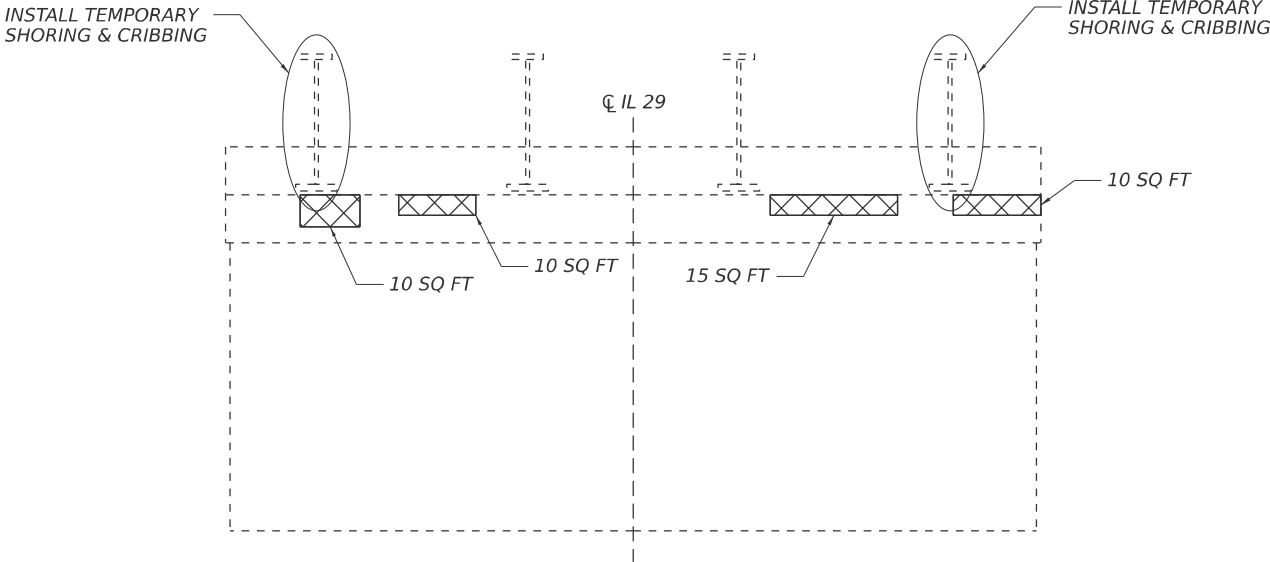
SOUTH ABUT.



NORTH ABUT.



P3 - SOUTH FACE



P3 - NORTH FACE



STRUCTURAL REPAIR OF CONCRETE

BEAM REACTION TABLE AT TEMPORARY SHORING (SEE SPECIAL PROVISIONS)	
LOCATION	PIER 3
DEAD LOAD	143.9 KIPS
LIVE LOAD	69.4 KIPS
IMPACT	10.6 KIPS
TOTAL	223.9 KIPS

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair Of Concrete (Depth = or < Than 5")	Sq Ft	70
Temporary Shoring And Cribbing	Each	2

MODEL: Bridge-10 [Sheet]
FILE NAME: c:\p\work\pilot\dudley\cml\1065126\72973 plansheet.dgn

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REPAIRS SN 065-0501				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						658	K(B-1)BJR,BDR	MASON/MENARD	24	22
		CHECKED -	REVISED -						CONTRACT NO. 72973				
	PLOT DATE = 2/18/2025	DATE -	REVISED -		SCALE:				SHEET 11	OF 13 SHEETS	STA.	TO STA.	
					ILLINOIS FED. AID PROJECT								

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Sumpers To Be Adjusted	Each	14

