09–18–2020 LETTING ITEM 023

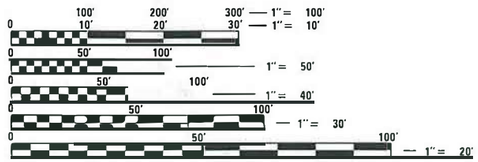
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	1
	ILLINOIS	CONTRACT NO. 68E79		

INDEX OF SHEETS

1.	COVER SHEET
2–3.	GENERAL NOTES & PROJECT SPECIFIC NOTES
4.	STATUS OF UTILITIES
5–12.	SUMMARY OF QUANTITIES
13–14.	TYPICAL SECTIONS
15–17.	SCHEDULE OF QUANTITIES
18.	GENERAL PLAN
19–30.	PROPOSED TRAFFIC CONTROL
31–32.	TRAFFIC CONTROL DETAILS
33–34.	EXISTING AND PROPOSED
35.	STRIPING DETAILS
36–63.	STRUCTURAL DETAILS
64–85.	ELECTRICAL DETAILS
86–92.	DISTRICT 4 STANDARDS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

001001–02	825001–04
602306–03	830011–03
604001–05	830026–01
606001–07	862001–01
606301–04	873001–02
630301–09	878001–10
631033–08	880006–01
635001–02	886001–01
642006	886006–01
701101–05	
701106–02	
701426–09	
701601–09	
701602–10	
701901–08	
704001–08	
725001–01	
780001–05	
782006–01	
814006–02	
821101–02	



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

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

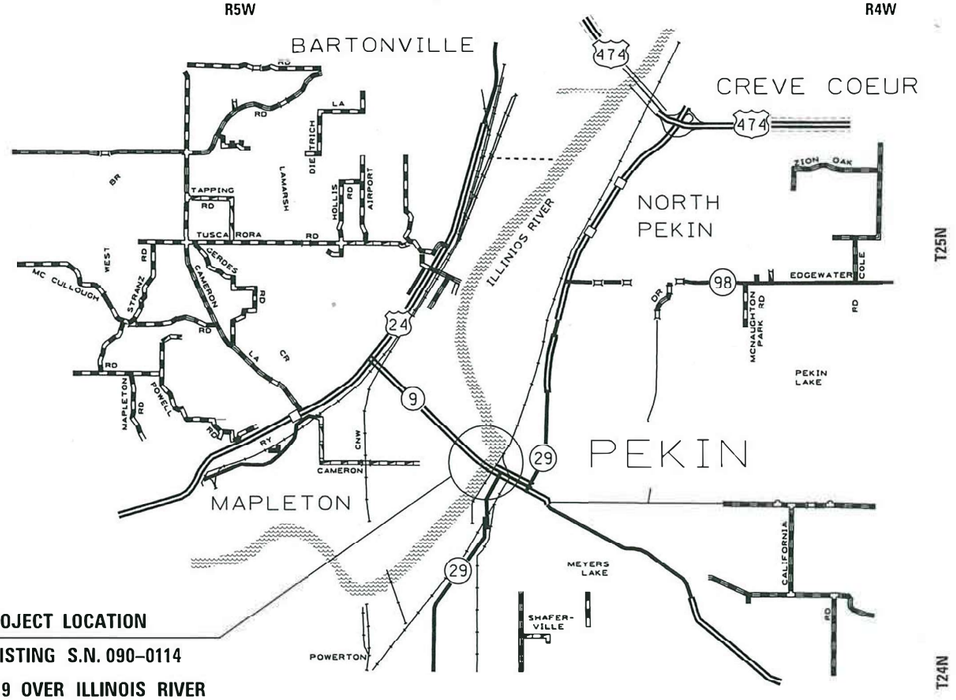
PROJECT ENGINEER: NICK JACK
PROJECT MANAGER: JOSH JOCHUMS
CATALOG NO. 035699–00D
CONTRACT NO. 68E79

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP ROUTE 693 (IL 9)
SECTION (12B)BR, BDR, BJR
NHPP–PQR8(399)
BRIDGE PRESERVATION
TAZEWELL COUNTY

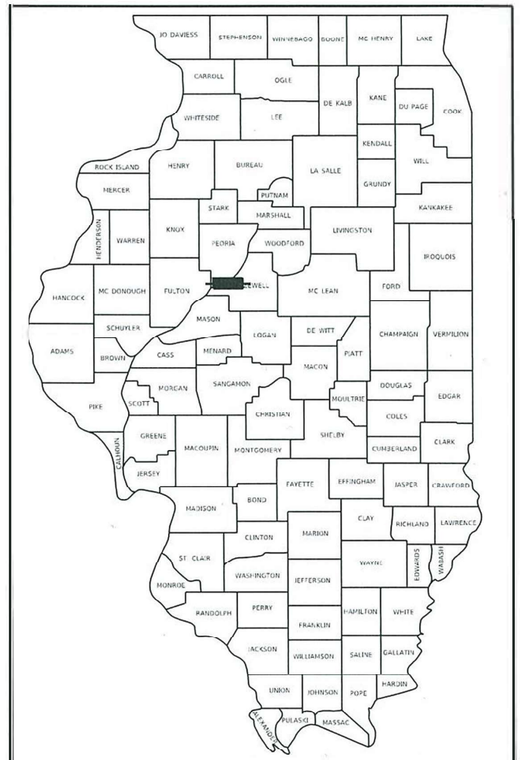
C–94–021–19



PROJECT LOCATION
EXISTING S.N. 090–0114
IL 9 OVER ILLINOIS RIVER

GROSS LENGTH = 6035 FT. = 1.14 MILE
NET LENGTH = 6035 FT. = 1.14 MILE

D-94-015-19



LOCATION OF SECTION INDICATED THUS: –

S.N. 090–0114 (MCNAUGHTON BRIDGE) OVER THE ILLINOIS RIVER:

THE SCOPE OF THIS CONTRACT CONSISTS OF THE REPLACEMENT OF BEARINGS AND EXPANSION JOINTS, BRIDGE DECK PATCHING, SUBSTRUCTURE REPAIRS, AND MISCELLANIOUS BRIDGE LIGHTING REPAIRS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 25 2020
REGIONAL ENGINEER

August 14, 2020
ENGINEER OF DESIGN AND ENVIRONMENT

August 14, 2020
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 7/14/20

GENERAL NOTES

PLAN ELEVATIONS - U.S.G.S. MEAN SEA LEVEL DATUM

Use one of the following two options.

1. All elevations shown on the plans are established from U.S.G.S. mean sea level datum.

PROPERTY OWNER ACCESS REQUIREMENTS

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

CRITICAL PATH WORK SCHEDULE REQUIREMENT

The Contractor will submit to the Engineer a satisfactory progress schedule and critical path schedule which shall show the proposed sequence of work at the time of the pre-construction conference.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
- BDE Form 2290 (Waste/Use Area Review)
- A location map showing the size limits and location of the use area
- Color photographs depicting the use area
- Borrow Area Entry Agreement form - D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL

The Department reserves the right at any time to add additional Traffic Control Systems or devices within the active contract limits, by means of an additional contract. All terms of Article 105.08 of the Standard Specifications shall be followed by each Contractor.

SIGNING

Sign locations may vary from the stations shown on the plans in accordance with directions from the Engineer at the time of construction. Sign locations may be adjusted in the field to avoid any found utilities.

All wood post locations shall be verified with the Bureau of Operations, Traffic Section, before installation.

CONSECUTIVE SIDE STREET (ROAD) CLOSURE - PROHIBITED

1. No two consecutive side streets (roads) may be closed at the same time during construction. The Contractor must alternate streets (roads).

2. Adjacent sideroads will not be closed simultaneously. BLR Standard 21 shall be used for all local road closures without any entrances within the closed area. BLR Standard 22 can be used where it is necessary to allow local traffic access.

WINTER SHUTDOWN RESTRICTIONS ON COLD MILLED PROJECTS

Prior to winter shutdown the following steps shall be taken:

- All cold milled surfaces shall be overlaid.

- All lanes shall be reopened to traffic.

- Manholes, where applicable, shall be adjusted to the elevation of the binder course/leveling binder to ease in plowing snow, and re-adjusted to finished grade in the Spring. The initial manhole adjustment will be paid for at the contract unit price and any re-adjustment, as directed by the Engineer, will be paid for in accordance with Article 109.04.

- Temporary or permanent pavement marking shall be placed as applicable.

ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

EXISTING DRAINAGE PIPES CONNECTED TO NEW STRUCTURES

In accordance with Section 602 of the Standard Specifications, the connecting of existing drain tiles, pipe culverts, or storm sewers to the proposed drainage system structures will not be paid for separately but shall be considered as included in the pay items provided.

MEDIAN AND ISLAND NOSES

When constructing median and island noses the following criteria should be followed:

- Barrier curb shall be used to construct noses when the median or island surrounds a mast arm or other non-breakaway foundation.

- Ramped noses shall be used on medians or islands with breakaway posts.

SIGN POST HOLES

Vertical holes shall be constructed in the island pavement and/or concrete median of the type specified or concrete median surface 4 inches (100 mm). The holes shall be 24 inches (600 mm) in diameter or 24 inches (600 mm) square and they shall be free of any obstruction, except earth, for a depth of 5 feet (1.5 m) at the locations shown on the plans or as directed by the Engineer. Any holes not used for the placement of signs shall be filled and compacted flush with the top of the island pavement, concrete median of the types specified, or concrete median surface 4 inches (100 mm). The top 3 inches (75 mm) of said compacted fill shall consist of a hot-mix asphalt mixture. All holes in which the sign posts are installed at the time of this contract shall be similarly filled.

This work, including any required pavement removal necessary to construct the sign post holes, will not be paid for separately but shall be included in the contract unit price per square foot (square meter) for ISLAND PAVEMENT and/or CONCRETE MEDIAN of the type specified, or CONCRETE MEDIAN SURFACE, 4 inches (100 mm).

SECURING DRAINAGE STRUCTURE GRATES

Prior to routing traffic onto the shoulders as shown in the staging plans, the Constractor shall secure gratings on shoulder inlets as directed by the Engineer. This work will not be paid for separately, but shall be included in the cost of the traffic control pay item.

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	DRAWN -	REVISED -	
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PLOT DATE = 6/26/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND PROJECT SPECIFIC NOTES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	2
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES (CONTINUED)

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb / sq ft
Existing Pavement	0.08 lb / sq ft
Fog Coat (between lifts)	0.08 lb / sq ft

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Use(s):	Median Cross-Over Surface Lift (1.75")	Median Cross-Over Lower Lifts (1.75" & 2")	Median Cross-Over Bottum Lift (4")
AC/PC:	PG 64-22	PG 64-22	PG 64-22
Design Air Voids:	4.0% @ N=70	4.0% @ N=70	4.0% @ N=50
Mixture Composition: (Gradation Mixture):	IL 9.5	IL 9.5	IL 19.0
Friction Aggregate:	MIXTURE D	N.A.	N.A.
Quality Management:	QC/QA	QC/QA	QC/QA

Notes:
1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum.

2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb./s.y./in., unless otherwise noted.

3) Sublot sizes for PFP and QCP mixes will be 1,000 tons, unless otherwise agreed to by the Engineer and the paving Contractor.

PROJECT SPECIFIC NOTES

1. PROTECTIVE SHIELD will be required at and adjacent to Piers 5, 6, and 9. The protective shield will be required for the full width of the bridge . The protective shield shall protect a total of 20 ft. of bridge length at each pier. The 20 ft. of bridge length shall be centered over each pier.

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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/26/2020	DATE -	REVISED -	

GENERAL NOTES AND PROJECT SPECIFIC NOTES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	3
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			

Company	Type of Utility	Type of Conflict	Location	Disposition
US Signal Company/Turnkey Network Solutions	Fiber in Conduit	Structural Repair of Concrete (Depth Equal to or Less Than 5"), Concrete Removal, Concrete Superstructure	East Abutment, Pier 6 and Pier 9	Caution
Uniti Fiber/PEG Bandwidth	Fiber in Conduit	Structural Repair of Concrete (Depth Equal to or Less Than 5"), Concrete Removal, Concrete Superstructure	East Abutment, Pier 6 and Pier 9	Caution
i3 Broadband	Fiber in Conduit	Structural Repair of Concrete (Depth Equal to or Less Than 5"), Concrete Removal, Concrete Superstructure	East Abutment, Pier 6 and Pier 9	Caution
	Fiber in Conduit	Curb & Gutter, Base Course Widening	Margaret St. (Sta. 107+74 to Sta. 108+75 LT)	Caution
	Fiber in Conduit	Temporary Pavement/Concrete Median	Margaret St. (Sta. 109+30 to Sta. 109+48)	Caution
Century Link	Pedestal & Buried Cable	Curb & Gutter, Base Course Widening	North West Quad of 2nd & Margaret St.	Remove (Phone drop to IDOT controller no longer needed)
IAWC	6" Water Main, Valve	Curb & Gutter, Base Course Widening	West edge of Pavement on 2nd St. between Ann ElizaSt. And Margaret St.	Caution

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PLOT DATE = 6/26/2020	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	TOTAL SHEETS 92
					SHEET NO. 4
					CONTRACT NO. 68E79
					ILLINOIS FED. AID PROJECT

			URBAN	CONSTRUCTION CODE		
				0047	0005	0021
				BRIDGE PRES.	ROADWAY	ELECTRICAL
				80% FED	80% FED	80% FED
				20% STATE	20% STATE	20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	S.N. 090-0114		
20800150	TRENCH BACKFILL	CY YD	3		3	
35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10"	SQ YD	97		97	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	7417		7417	
42001300	PROTECTIVE COAT	SQ YD	235	235		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	667		667	
44003100	MEDIAN REMOVAL	SQ FT	335		335	
44201292	DOWEL BARS, 5/8"	EACH	8	8		
44213204	TIE BARS 3/4"	EACH	229		229	
48203100	HMA SHOULDERS	TON	1827		1827	
50102400	CONCRETE REMOVAL	CU YD	113.6	113.6		
50157300	PROTECTIVE SHIELD	SQ YD	560	560		
50300225	CONCRETE STRUCTURES	CU YD	25.5	25.5		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	118.2	118.2		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	22390	22390		

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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/26/2020	DATE -	REVISED -	

SUMMARY OF QUANTITIES

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	5
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

REV. 7/14/20

				URBAN	CONSTRUCTION CODE		
					0047	0005	0021
					BRIDGE PRES.	ROADWAY	ELECTRICAL
					80% FED	80% FED	80% FED
					20% STATE	20% STATE	20% STATE
					S.N. 090-0114		
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY			
	50800530	MECHANICAL SPLICERS	EACH	388	388		
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	164	164		
	52100530	ANCHOR BOLTS, 1 1/4"	EACH	20	20		
	52100540	ANCHOR BOLTS, 1 1/2"	EACH	80	80		
	550A0050	STORM SEWERS, CLASS A, TYPE 1, 12"	FOOT	10		10	
	60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1		1	
	60620000	CONCRETE MEDIAN, TYPE SB 6.24	SQ FT	668		668	
	60626500	TRANSITIONAL COMBINATION CONCRETE CURB AND GUTTER	FOOT	40		40	
*	63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	2	2		
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		
	63200310	GUARDRAIL REMOVAL	FOOT	150	150		
	64200108	SHOULDER RUMBLE STRIPS, 8"	FOOT	2842		2842	
	67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	9	9		
	67100100	MOBILIZATION	L SUM	1	1		

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	DRAWN -	REVISED -	SUMMARY OF QUANTITIES
PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	
PLOT DATE = 6/26/2020	DATE -	REVISED -	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	6
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			

REV. 7/14/20

			URBAN	CONSTRUCTION CODE		
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				80% FED	80% FED	80% FED
				20% STATE	20% STATE	20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	S.N. 090-0114		
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1		
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	0.5	0.5		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	14541	14541		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	361	361		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	21418	21418		
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	379	379		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	174	174		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	416	416		
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	43624	43624		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3935	3935		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4040	4040		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	7
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			

REV. 7/14/20

				URBAN	CONSTRUCTION CODE		
					0047	0005	0021
					BRIDGE PRES.	ROADWAY	ELECTRICAL
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED	80% FED	80% FED
					20% STATE	20% STATE	20% STATE
					S.N. 090-0114		
	70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2		
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	278	278		
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	21418	21418		
*	78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	379	379		
*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	174	174		
*	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	416	416		
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4	4		
*	81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	600			600
*	81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	130			130
*	81104580	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., STAINLESS STEEL	FOOT	300			300
*	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	2			2
*	81300555	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 8"	EACH	2			2
*	82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	1			1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	8
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

REV. 7/14/20

	CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE 0047 BRIDGE PRES. 80% FED 20% STATE S.N. 090-0114	CONSTRUCTION CODE 0005 ROADWAY 80% FED 20% STATE	CONSTRUCTION CODE 0021 ELECTRICAL 80% FED 20% STATE
*	82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240 VOLT, 60 AMP	EACH	1			1
*	83060510	LIGHT POLE, GALVANIZED STEEL, 50FT. M.H., 6FT. MAST ARM	EACH	1			1
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	299			299
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	620.5			620.5
*	87900200	DRILL EXISTING HANDHOLE	EACH	1			1
*	89502378	REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1			1
*	X0323923	SUPPORT EQUIPMENT AND MAINTENANCE	L SUM	1			1
*	X0324603	CIRCUIT BREAKER, 1-POLE, 20 AMP, 120V IN EXISTING TSC CABINET	EACH	1			1
*	X0325754	REPLACEMENT OF SENSORS FOR ROADWAY INFORMATION SYSTEM	L SUM	1			1
*	X0326357	ROADWAY LIGHTING MODIFICATIONS	L SUM	1			1
*	X0326645	UPGRADE RPU EQUIPMENT AND COMMUNICATIONS AT RWIS SITE	EACH	1			1
*	X0326656	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE	EACH	1			1
*	X0326812	CAT 5 ETHERNET CABLE	FOOT	94			94
*	X0326945	CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT	EACH	1			1

*= SPECIALTY ITEM

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	DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	9
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

				URBAN	CONSTRUCTION CODE		
					0047	0005	0021
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE PRES.	ROADWAY	ELECTRICAL
					80% FED	80% FED	80% FED
					20% STATE	20% STATE	20% STATE
					S.N. 090-0114		
*	X0327739	MISCELLANEOUS ELECTRICAL WORK	L SUM	1			1
*	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	8573	8573		
*	X1400127	CAT 6 ETHERNET CABLE	FOOT	1268			1268
*	X1400179	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	6			6
	X1400366	TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	L SUM	1			1
	X3200005	HMA SURFACE REMOVAL, 9 1/2"	SQ YD	3434		3434	
	X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	74		74	
	X5210200	HIGH LOAD MULTI-ROTATIONAL BEARING, GUIDED EXPANSION, 650K	EACH	4	4		
	X5210210	HIGH LOAD MULTI-ROTATIONAL BEARING, GUIDED EXPANSION, 700K	EACH	4	4		
	X5210255	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 1700K	EACH	4	4		
	X5210275	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 1900K	EACH	4	4		
	X6020082	INLETS, TYPE G-1	EACH	1		1	
	X6061815	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)	FOOT	299		299	
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		

*= SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	10
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

				URBAN	CONSTRUCTION CODE		
					0047	0005	0021
					BRIDGE PRES.	ROADWAY	ELECTRICAL
					80% FED	80% FED	80% FED
					20% STATE	20% STATE	20% STATE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	S.N. 090-0114		
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	8760		8760	
*	X8110453	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA. STAINLESS STEEL	FOOT	35			35
*	X8110456	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., STAINLESS STEEL	FOOT	125			125
*	X8130110	JUNCTION BOX (SPECIAL)	EACH	2			2
*	X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1	1		
*	X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2			2
	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	37	37		
	Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	16	16		
	Z0001903	STRUCTURAL STEEL REMOVAL	POUND	110	110		
	Z0001905	STRUCTURAL STEEL REPAIR	POUND	50	50		
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	262	262		
	Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	524	524		
	Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	1070	1070		
X	Z0033068	TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	2			2

*= SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	11
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

				URBAN	CONSTRUCTION CODE		
					0047	0005	0021
					BRIDGE PRES.	ROADWAY	ELECTRICAL
					80% FED	80% FED	80% FED
					20% STATE	20% STATE	20% STATE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	S.N. 090-0114		
	Z0034105	MATERIAL TRANSFER DEVICE	TON	1827		1827	
	Z0034390	MODULAR EXPANSION JOINT 6"	FOOT	90	90		
	Z0034393	MODULAR EXPANSION JOINT 9"	FOOT	93	93		
	Z0034500	MODULAR EXPANSION JOINT 18"	FOOT	84	84		
	Z0062456	TEMPORARY PAVEMENT	SQ YD	74		74	
Ø	Z0076600	TRAINEES	HOUR	1000	1000		
Ø	Z0076604	TRAINEES-TRAINING PROGRAM GRADUATE	HOUR	1000	1000		

Ø 0042

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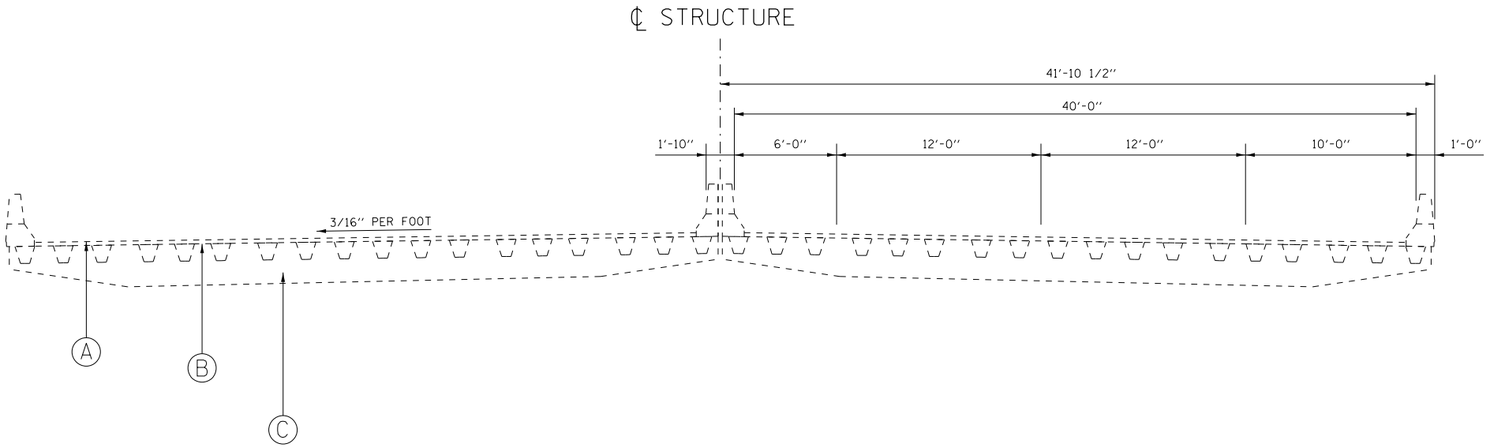
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	12
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			

REV. 8/6/20 REV. 7/14/20

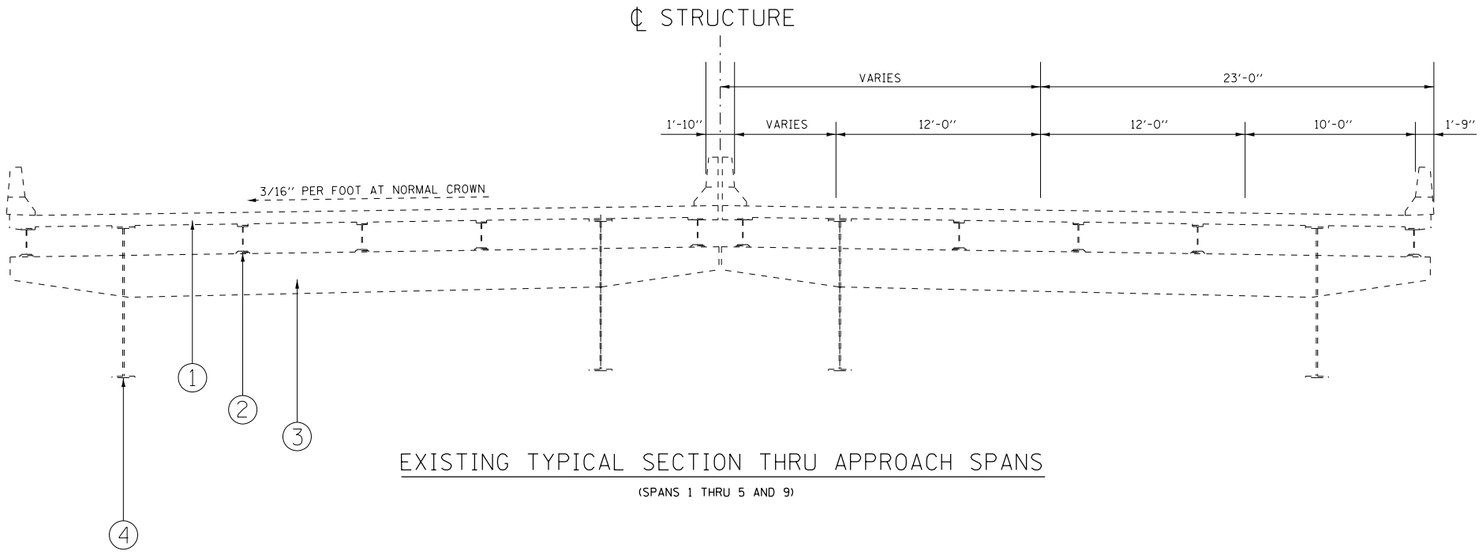


EXISTING TYPICAL SECTION THRU MAIN RIVER SPANS

(SPANS 6,7, AND 8)

EXISTING

- (A) 5" CONCRETE WEARING SURFACE
- (B) ORTHOTROPIC STEEL PLATE DECK
- (C)(3) FLOOR BEAMS AT 20' ON CENTERS
- (1) 8" CONCRETE DECK
- (2) WIDE FLANGE STRINGER
- (4) STEEL GIRDER



EXISTING TYPICAL SECTION THRU APPROACH SPANS

(SPANS 1 THRU 5 AND 9)

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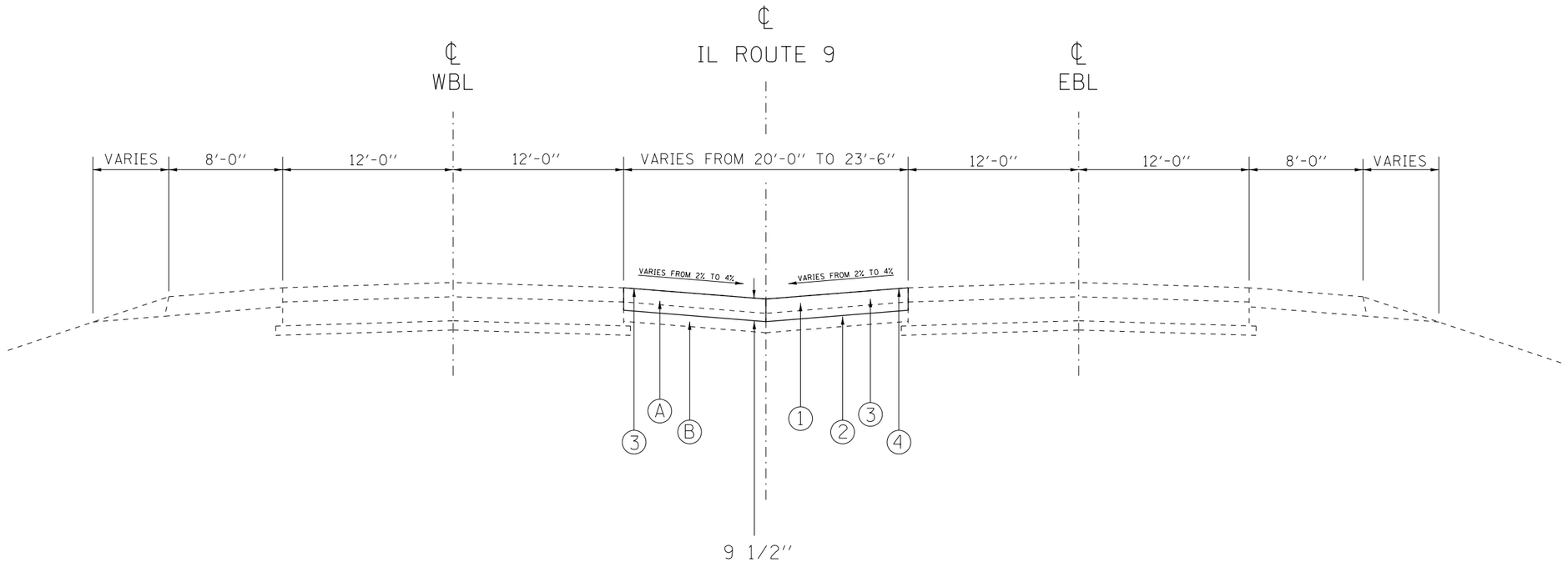
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	13
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION AT CROSSOVER

STA. 63+00 TO STA. 77+21

EXISTING

- (A) HMA OVERLAY, VARIABLE DEPTH FROM 3'' TO 8''
- (B) BITUMINOUS AGGREGATE MIXTURE, VARIABLE DEPTH

PROPOSED

- (1) HMA SURFACE REMOVAL, 9 1/2''
- (2) POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)
- (3) HMA SHOULDERS
- (4) SHOULDER RUMBLE STRIPS, 8''

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	14
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

TRENCH BACKFILL	
LOCATION	20800150
	CU YD
STA. 108+59 22' LT TO 108+69 17.22' LT (MARGARET ST.)	3.0
TOTAL	**3**

PCC BASE COURSE WIDENING 10"	
LOCATIONS	35400500
	SQ YD
STA. 105+58 TO 106+36 LT (ANN ELIZA ST.)	6
STA. 107+74 TO 109+04 LT (MARGARET ST.)	91
TOTAL	**97**

COMBINATION CURB & GUTTER REMOVAL	
LOCATIONS	44000500
	FOOT
STA. 105+42 TO STA. 107+15 LT (ANN ELIZA ST.)	173
STA. 105+25 TO STA. 106+91 RT (ANN ELIZA ST.)	166
STA. 107+74 TO STA. 109+04 LT (MARGARET ST.)	180
ISLAND ON SE QUAD OF ANN ELIZE ST. AND 2ND ST.	77
ISLAND ON NE QUAD OF MARGARET ST. AND 2ND ST.	71
TOTAL	**667**

MEDIAN REMOVAL	
LOCATIONS	44003100
	SQ FT
ISLAND ON SE QUAD OF ANN ELIZE ST. AND 2ND ST.	180
ISLAND ON NE QUAD OF MARGARET ST. AND 2ND ST.	155
TOTAL	**335**

TIE BARS 3/4"	
LOCATIONS	44213204
	EACH
STA. 105+42 TO STA. 107+15 LT (ANN ELIZA ST.)	59
STA. 105+25 TO STA. 106+91 RT (ANN ELIZA ST.)	57
STA. 107+74 TO STA. 109+04 LT (MARGARET ST.)	61
ISLAND ON SE QUAD OF ANN ELIZE ST. AND 2ND ST.	27
ISLAND ON NE QUAD OF MARGARET ST. AND 2ND ST.	25
TOTAL	**229**

TABULATION OF HMA QUANTITIES									
						40600295	48203100	X3200005	Z0034105
LOCATIONS			LENGTH	WIDTH	AREA	POLY BIT MTRL (TACK COAT) *	HMA SHOULDERS	HOT-MIX ASPHALT SURF REM 9 1/2"	MATERIAL TRANSFER DEVICE
STA.	TO	STA.	FT	FT	SQ YD	LB	TON	SQ YD	TON
63+00	TO	77+21	1421.0	VARIABLE	3434	7417	1827	3434	1827
TOTAL						**7417**	**1827**	**3434**	**1827**
*THREE APPLICATIONS AT .08 LBS/SQ FT									

PROTECTIVE SHIELD	
LOCATIONS	50157300
	SQ YD
PIER 5	186.7
PIER 6	186.7
PIER 9	186.7
TOTAL	**560**

STORM SEWERS, CLASS A, TYPE 1, 12"					
LOCATION					550A0050
STA.	TO	STA.	NOTES	SLOPE (%)	FOOT
108+65	TO	108+68	MARGARET ST. STATIONING	1.00	10
TOTAL					**10**

STORM SEWER STRUCTURE TABLE							
					INLETS		
LOCATION	NOTES	GRATE ELEV.	FLOW LINE EAST	FLOW LINE WEST	TYPE B, TYPE 1 FRAME, CLOSED LID	TYPE G-1	VANE GRATE DIRECTION
					60240215	X6020082	
					EACH	EACH	
STA. 108+68, 17.22' LT	MARGARET ST. STATIONING	473.41	470.61	470.69	1		
STA. 108+65, 22.00' LT	MARGARET ST. STATIONING	473.64	470.79			1	RIGHT
TOTAL					**1**	**1**	

CONCRETE MEDIAN, TYPE SB 6.24	
LOCATIONS	60620000
	SQ FT
ISLAND ON SE QUAD OF ANN ELIZE ST. AND 2ND ST.	343
ISLAND ON NE QUAD OF MARGARET ST. AND 2ND ST.	325
TOTAL	**668**

TRANSITIONAL COMBINATION CONCRETE CURB AND GUTTER	
LOCATION	60626500
	FOOT
STA. 105+42 TO 105+52 LT (ANN ELIZA ST.)	10
STA. 107+05 TO 107+15 LT (ANN ELIZA ST.)	10
STA. 105+25 TO 105+35 RT (ANN ELIZA ST.)	10
STA. 106+81 TO 106+91 RT (ANN ELIZA ST.)	10
TOTAL	**40**

SHOULDER RUMBLE STRIPS, 8"	
LOCATION	64200108
	FOOT
STA. 63+00 TO STA. 77+21	2842
TOTAL	**2842**

ENGINEER'S FIELD OFFICE, TYPE B	
LOCATION	67000500
	CAL MO
JOBSITE	9
TOTAL	**9**

MOBILIZATION	
LOCATION	67100100
	L SUM
JOBSITE	1
TOTAL	**1**

TRAFFIC CONTROL		
STANDARD	**CODE NUMBER**	**L SUM**
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	70102630	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	70102632	1
TRAFFIC CONTROL AND PROTECTION, SPECIAL	X7010216	1

TRAFFIC CONTROL SURVEILLANCE	
LOCATION	70103815
	CAL DAY
JOBSITE	10
TOTAL	**10**

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	15
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

GUARDRAIL SCHEDULE					
LOCATION	63100089	63100167	63200310	7820005	72501000
	TRAFFIC BARRIER TERMINAL, TYPE 6B	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER-DIRECT APPLIED
	EACH	EACH	FOOT	EACH	EACH
STA. 105+13 LT (ANN ELIZA ST.)	1			1	
STA. 105+00 RT (ANN ELIZA ST.)	1			1	
STA. 106+04 RT (ANN ELIZA ST.)		1		1	1
STA. 105+83 LT (ANN ELIZA ST.)		1		1	1
STA. 105+00 TO STA. 105+69 RT (ANN ELIZA ST.)			69		
STA. 105+13 TO STA. 105+94 LT (ANN ELIZA ST.)			81		
TOTAL	**2**	**2**	**150**	**4**	**2**

CHANGEABLE MESSAGE SIGN	
LOCATION	70106800
	CAL MO
JOBSITE	0.5
TOTAL	**0.5**

SHORT-TERM PAVEMENT MARKING					
LOCATION			NOTES	70300904	70300150
STA	TO	STA		PAVEMENT MARKING TAPE, TYPE IV 4"	SHORT-TERM PAVEMENT MARKING REMOVAL
				FT	SF
STAGE 2					
58+30	TO	63+55	TWO LINES	1050	350
63+55	TO	105+16	FOUR LINES	16644	5548
105+16	TO	109+17	TWO LINES	802	267
RADIUS AND HATCHING ALONG MARGARET ST. & 2ND ST.				297	99
TAPER ON 2ND. ST.				294	98
ALL RADIUS AND HATCHING ON ANN ELIZA ST. & 2ND. ST.				749	250
TANGENT STRIPING ON ANN ELIZA ST. & RADIUS ON 3RD ST.				501	167
TAPER FROM 3RD ST. TO N. CAPITOL ST.				425	142
STAGE 3					
58+30	TO	63+55	TWO LINES	1050	350
63+55	TO	104+89	FOUR LINES	16536	5512
104+89	TO	108+90	TWO LINES	802	267
ANN ELIZA ST. , MARGARET ST., 2ND ST., AND 3RD ST.				1438	479
SUBTOTAL				40588	
10% CONTINGENCY				4059	1353
GRAND TOTAL				**44647**	**14882**

COMBINATION CONCRETE CURB AND GUTTER, TY M (SPECIAL)	
LOCATION	X6061815
	FOOT
STA. 105+52 TO STA. 107+05 LT (ANN ELIZA ST.)	153
STA. 105+35 TO STA. 106+81 RT (ANN ELIZA ST.)	146
TOTAL	**299**

PAVEMENT MARKING REMOVAL-WATER BLASTING		
TYPE	LOCATION	X0327980
		SQ FT
LETTERS & SYMBOLS	VARIOUS LOCATIONS ALONG MARGARET, ANN ELIZA, 2ND AND 3RD ST.	278
LINE 4"	STA. 58+30 TO STA. 109+06	7139
LINE 8"	VARIOUS LOCATIONS ALONG MARGARET, ANN ELIZA, AND 2ND ST.	254
LINE 12"		
	MARGARET AND 2ND ST. HATCHING	174
	MARGARET AND 2ND ST. CROSSWALK	116
	ANN ELIZA AND 2ND ST. CROSSWALK	100
	ANN ELIZA AND 3RD ST. CROSSWALK	76
LINE 24"		
	MARGARET AND 2ND ST. STOP BAR	48
	2ND ST. STOP BAR	48
	2ND ST. LEFT TURN STOP BAR	42
	ANN ELIZA AND 2ND ST. STOP BAR	84
	RAILROAD STOP BAR	70
	ANN ELIZA AND 3RD ST. STOP BAR FOR RAILROAD	144
TOTAL		**8573**

TEMPORARY PAVEMENT REMOVAL	
LOCATION	X4400110
	SQ YD
ISLAND AT SE QUADRANT OF ANN ELIZA AND 2ND ST.	38
ISLAND AT NE QUADRANT OF MARGARET AND 2ND ST.	36
TOTAL	**74**

GUARDRAIL AGGREGATE EROSION CONTROL	
LOCATION	Z0001002
	TON
STA. 105+13 TO STA. 106+36 LT (ANN ELIZA ST.)	18.3
STA. 105+00 TO STA. 106+26 RT (ANN ELIZA ST.)	18.8
TOTAL	**37**

TEMPORARY PAVEMENT	
LOCATION	Z0062456
	SQ YD
ISLAND AT SE QUADRANT OF ANN ELIZA AND 2ND ST.	38
ISLAND AT NE QUADRANT OF MARGARET AND 2ND ST.	36
TOTAL	**74**

TRAFFIC CONTROL ITEMS				
LOCATION	70400100	70400200	70600260	70600332
	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
	FOOT	FOOT	EACH	EACH
STA. 69+25 TO STA. 108+60 FOR STAGE 2	3935			
STA. 68+21 TO STA. 108+60 FOR STAGE 3		4040		
STA. 108+90 ON MARAGRET ST. FOR STAGE 2			1	
STA. 108+90 ON ANN ELIZA ST. FOR STAGE 3				1
TOTALS	**3935**	**4040**	**1**	**1**

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DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	16
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			

TEMPORARY PAVEMENT MARKINGS

LOCATION			REMARKS	SYMBOL TYPE	#	70300210	70300220			70300250	70300260	70300280	X7030005
STA	TO	STA				TEMPORARY PAVEMENT MARKING LETTERS & SYMBOLS	TEMPORARY PAVEMENT MARKING - 4"			TEMPORARY PAVEMENT MARKING - 8"	TEMPORARY PAVEMENT MARKING - 12"	TEMPORARY PAVEMENT MARKING - 24"	TEMPORARY PAVEMENT MARKING REMOVAL
						SQ FT	WHITE SOLID	WHITE SKIP-DASH	YELLOW SOLID	FOOT	FOOT	FOOT	SQ FT
STAGE 2			RIGHT TURN ARROW W/ "ONLY" UNDERNEATH	LARGE	1	36.4							36.4
STAGE 2			RIGHT TURN & STRAIGHT ARROW W/ "ONLY" UNDERNEATH	LARGE	1	46.8							46.8
MARGARET ST.			RIGHT TURN ARROW	LARGE	2	31							31.2
ANN ELIZA ST			LEFT TURN ARROW	LARGE	3	47							46.8
2ND ST			LEFT TURN ARROW	LARGE	1	16							15.6
INTERSECTION OF ANN ELIZA ST & 3RD ST.			RAILROAD "R"	LARGE	6	22							21.6
INTERSECTION OF ANN ELIZA ST & 3RD ST.			RAILROAD "X"	LARGE	3	162							162
58+30	TO	63+55	EASTBOUND LANES ONLY				525	130	525				393
63+55	TO	105+89	ALL LANES				8468	2117	8468				6351
105+89	TO	CAPITOL ST.	ANN ELIZA ST.					360					120
107+92	TO	RADIUS RETURN ON 2ND ST.	MARGARET ST.				275						92
108+30	TO	109+06	MARGARET ST.				152						51
			2ND ST.				170			50			90
			STRIPING ALONG ISLAND AT SE QUAD OF 2ND/ANN ELIZA ST.				94						31
			STRIPING ALONG ISLAND AT SE QUAD OF 2ND/MARGARET ST.				134						45
107+15	TO	108+30								115			77
109+99	TO	112+13								214			143
108+30	TO	109+04	MARGARET ST. SW QUAD ISLAND HATCHING								69		69
108+30	TO	109+04	MARGARET ST. NW QUAD ISLAND HATCHING								105		105
			MARGARET & 2ND ST. STOP BAR, 2ND ST. STOP BAR, 2ND ST. LEFT TURN LANE STOP BAR									69	138
109+70			MARGARET ST. CROSS WALK									78	156
109+81			ANN ELIZA ST. CROSS WALK									66	132
109+99			ANN ELIZA STOP BAR AT 2ND ST.									42	84
112+66			RAILROAD STOP BAR									35	70
114+25			ANN ELIZA & 3RD ST. CROSS WALK									54	108
114+48			ANN ELIZA & 3RD ST. STOP BAR FOR RAILROAD									72	144
TOTALS						**361**	**21418**			**379**	**174**	**416**	**8760**

PAVEMENT MARKINGS

LOCATION			REMARKS	SYMBOL TYPE	#	78009000	78009004			78009008	78009012	78009024
STA	TO	STA				MODIFIED URETHANE PAVEMENT MARKING LETTERS & SYMBOLS	MODIFIED URETHANE PAVEMENT MARKING - 4"			MODIFIED URETHANE PAVEMENT MARKING - 8"	MODIFIED URETHANE PAVEMENT MARKING - 12"	MODIFIED URETHANE PAVEMENT MARKING - 24"
						SQ FT	WHITE SOLID	WHITE SKIP-DASH	YELLOW SOLID	FOOT	FOOT	FOOT
MARGARET ST.			RIGHT TURN ARROW	LARGE	2	31						
ANN ELIZA ST			LEFT TURN ARROW	LARGE	3	47						
2ND ST			LEFT TURN ARROW	LARGE	1	16						
INTERSECTION OF ANN ELIZA ST & 3RD ST.			RAILROAD "R"	LARGE	6	22						
INTERSECTION OF ANN ELIZA ST & 3RD ST.			RAILROAD "X"	LARGE	3	162						
58+30	TO	63+55	EASTBOUND LANES ONLY				525	130	525			
63+55	TO	105+89	ALL LANES				8468	2117	8468			
105+89	TO	CAPITOL ST.	ANN ELIZA ST.					360				
107+92	TO	RADIUS RETURN ON 2ND ST.	MARGARET ST.				275					
108+30	TO	109+06	MARGARET ST.				152					
			2ND ST.				170			50		
			STRIPING ALONG ISLAND AT SE QUAD OF 2ND/ANN ELIZA ST.				94					
			STRIPING ALONG ISLAND AT SE QUAD OF 2ND/MARGARET ST.				134					
107+15	TO	108+30								115		
109+99	TO	112+13								214		
108+30	TO	109+04	MARGARET ST. SW QUAD ISLAND HATCHING								69	
108+30	TO	109+04	MARGARET ST. NW QUAD ISLAND HATCHING								105	
			MARGARET & 2ND ST. STOP BAR, 2ND ST. STOP BAR, 2ND ST. LEFT TURN LANE STOP BAR									69
109+70			MARGARET ST. CROSS WALK									78
109+81			ANN ELIZA ST. CROSS WALK									66
109+99			ANN ELIZA STOP BAR AT 2ND ST.									42
112+66			RAILROAD STOP BAR									35
114+25			ANN ELIZA & 3RD ST. CROSS WALK									54
114+48			ANN ELIZA & 3RD ST. STOP BAR FOR RAILROAD									72
TOTALS						**278**	**21418**			**379**	**174**	**416**

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	DRAWN -	REVISED -	
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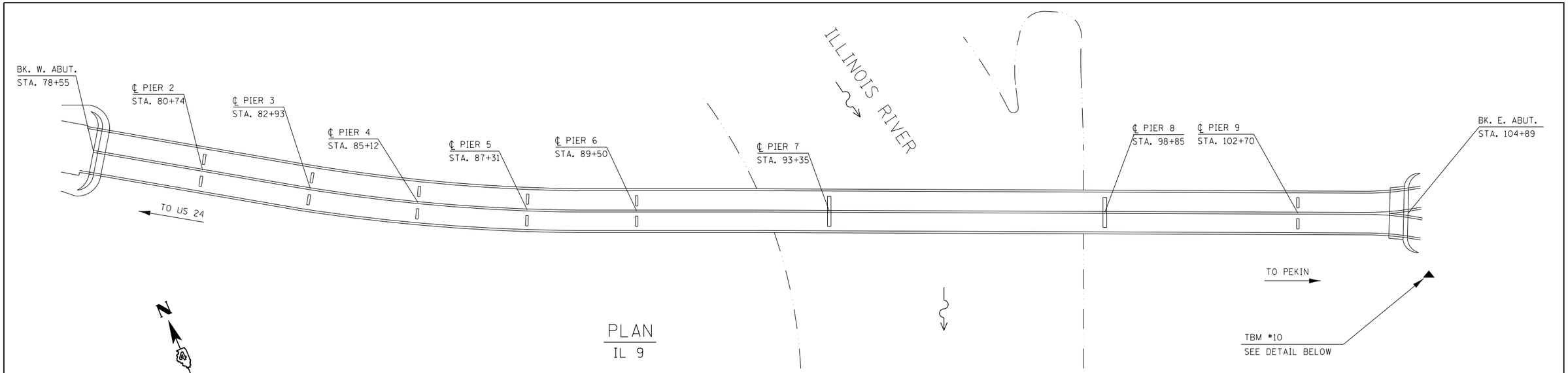
PLOT DATE = 6/26/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

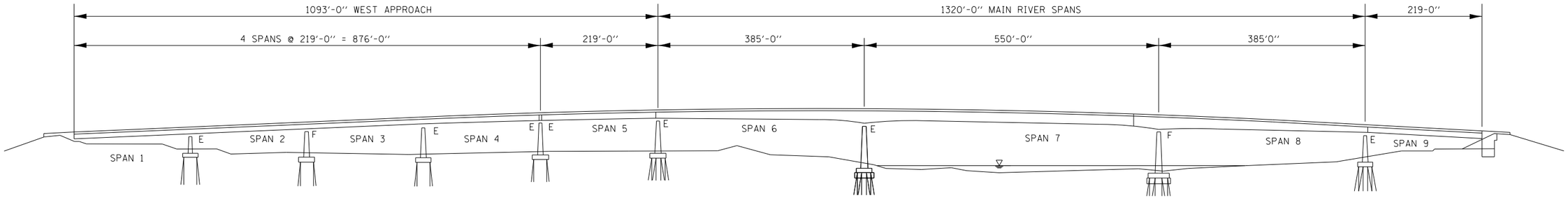
SCHEDULE OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	17
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

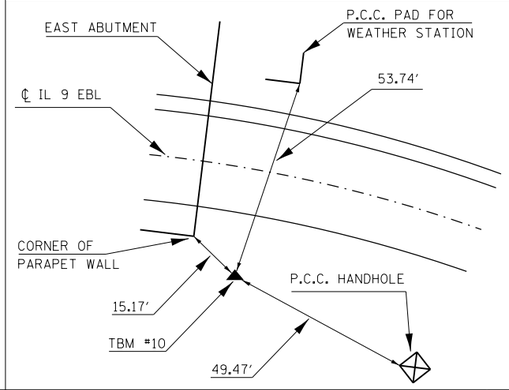


PLAN
IL 9



PROFILE
IL 9

TEMPORARY BENCHMARK #10



TBM #10
STEEL PIN IN CONCRETE COLLAR
ELEV. = 487.71

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PLOT DATE = 6/26/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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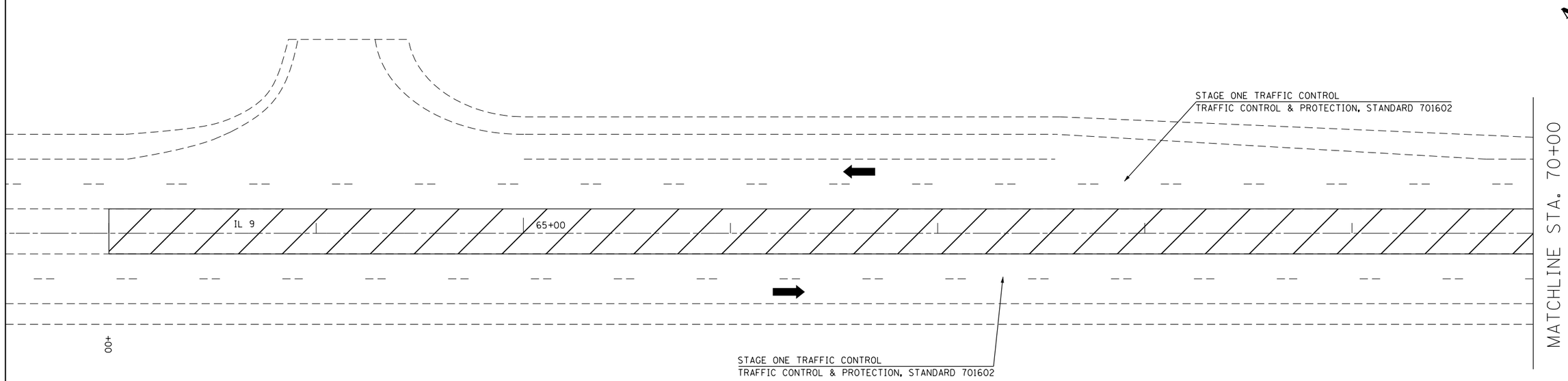
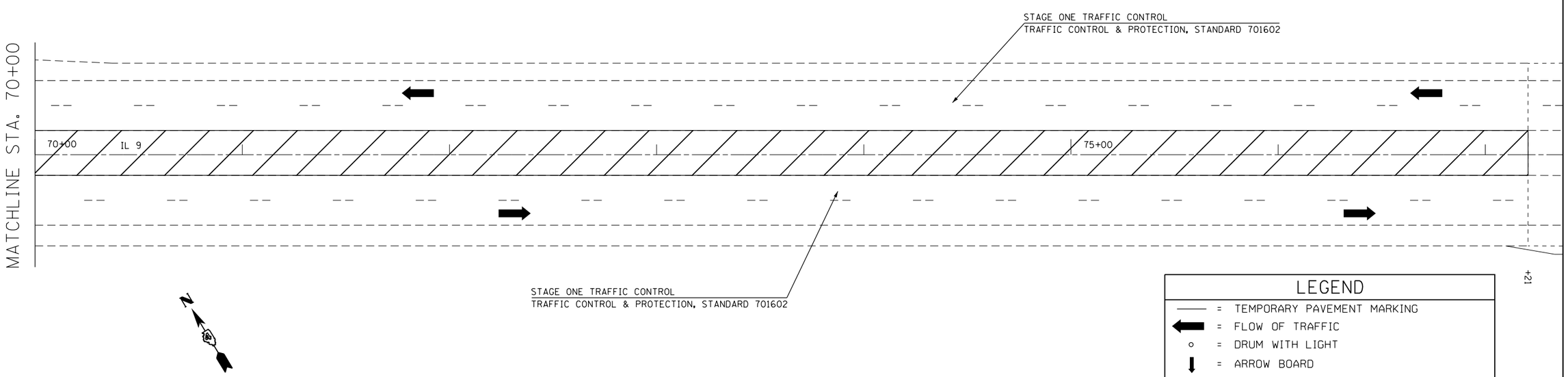
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		





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	DRAWN -	REVISED -	
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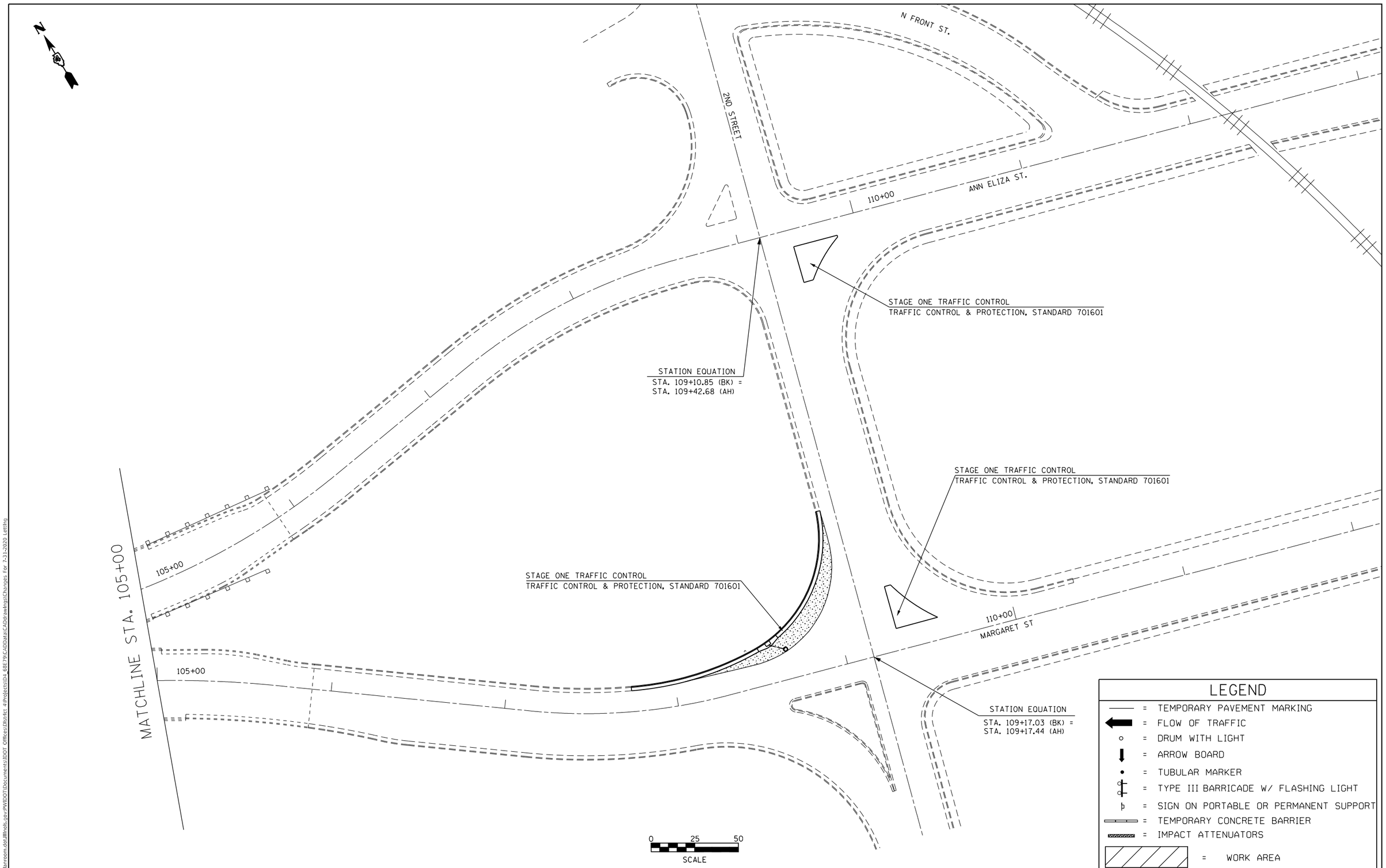
PLOT DATE = 6/26/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE ONE

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	19
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



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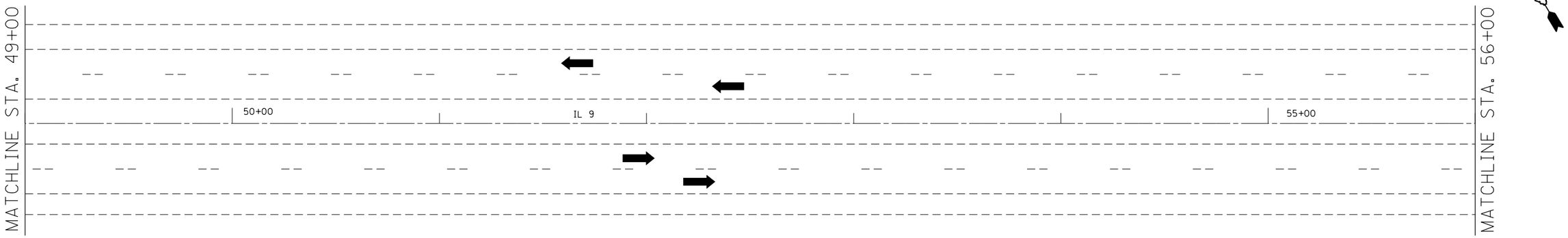
PLOT DATE = 6/26/2020	DATE -	REVISED -	

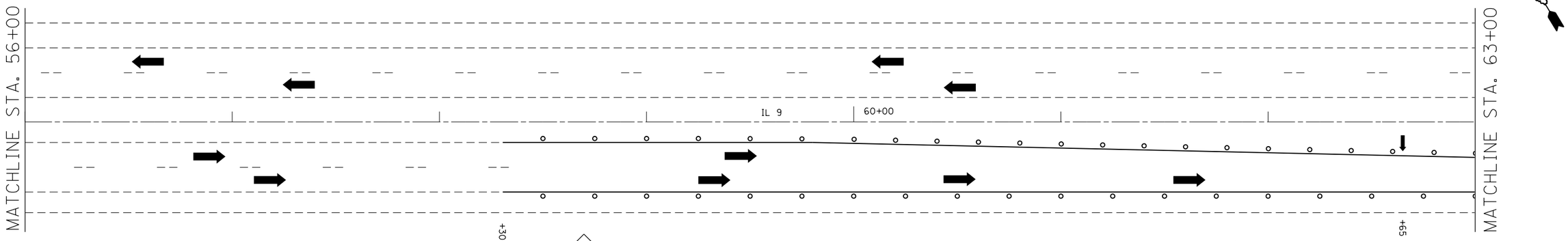
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

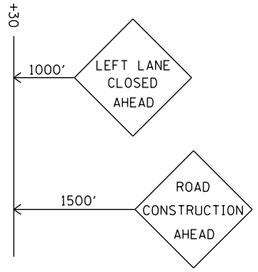
PROPOSED TRAFFIC CONTROL
STAGE ONE

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	20
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			







NOTES:

1. DRUMS AT 25' CENTERS ALONG TANGENT SECTIONS AND AT 20' CENTERS ALONG TAPERS

LEGEND

- = TEMPORARY PAVEMENT MARKING
- = FLOW OF TRAFFIC
- = DRUM WITH LIGHT
- = ARROW BOARD
- = TUBULAR MARKER
- = TYPE III BARRICADE W/ FLASHING LIGHT
- = SIGN ON PORTABLE OR PERMANENT SUPPORT
- = TEMPORARY CONCRETE BARRIER
- = IMPACT ATTENUATORS
- = WORK AREA

0 25 50
SCALE

MODEL: sheets
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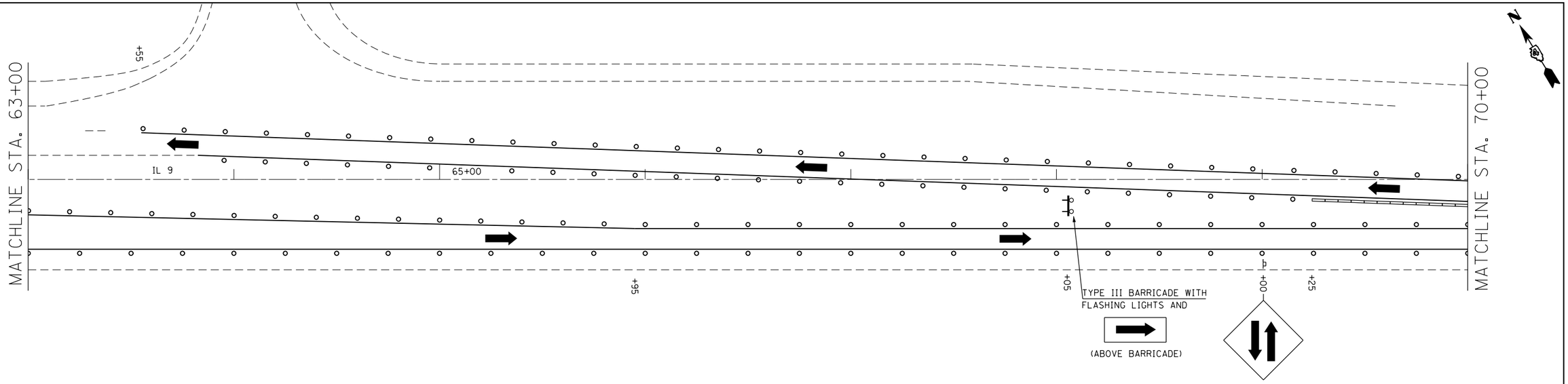
PLOT DATE = 6/26/2020	DATE -	REVISED -

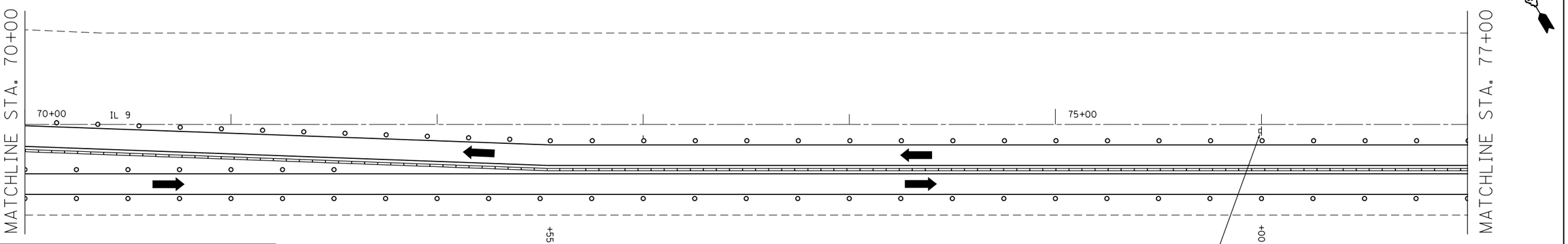
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE TWO

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	21
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		





LEGEND

- = TEMPORARY PAVEMENT MARKING
- = FLOW OF TRAFFIC
- = DRUM WITH LIGHT
- = ARROW BOARD
- = TUBULAR MARKER
- = TYPE III BARRICADE W/ FLASHING LIGHT
- = SIGN ON PORTABLE OR PERMANENT SUPPORT
- = TEMPORARY CONCRETE BARRIER
- = IMPACT ATTENUATORS
- = WORK AREA

NOTES:

1. DRUMS AT 25' CENTERS ALONG TANGENT SECTIONS AND AT 20' CENTERS ALONG TAPERS

0 25 50
SCALE

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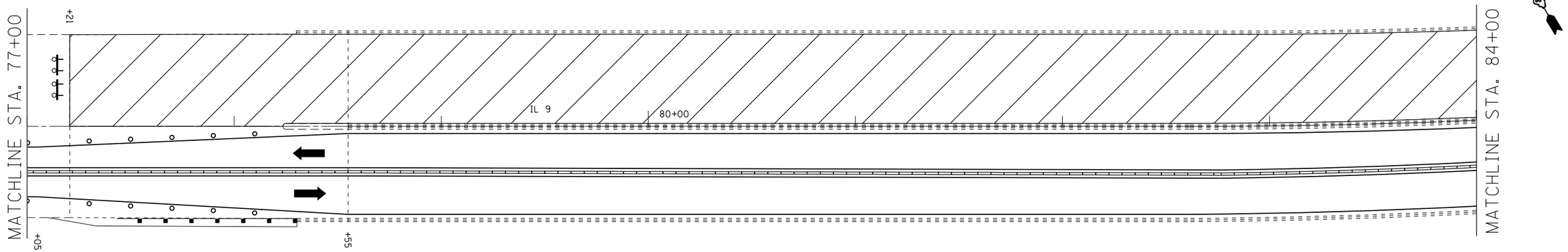
PLOT DATE = 6/26/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE TWO

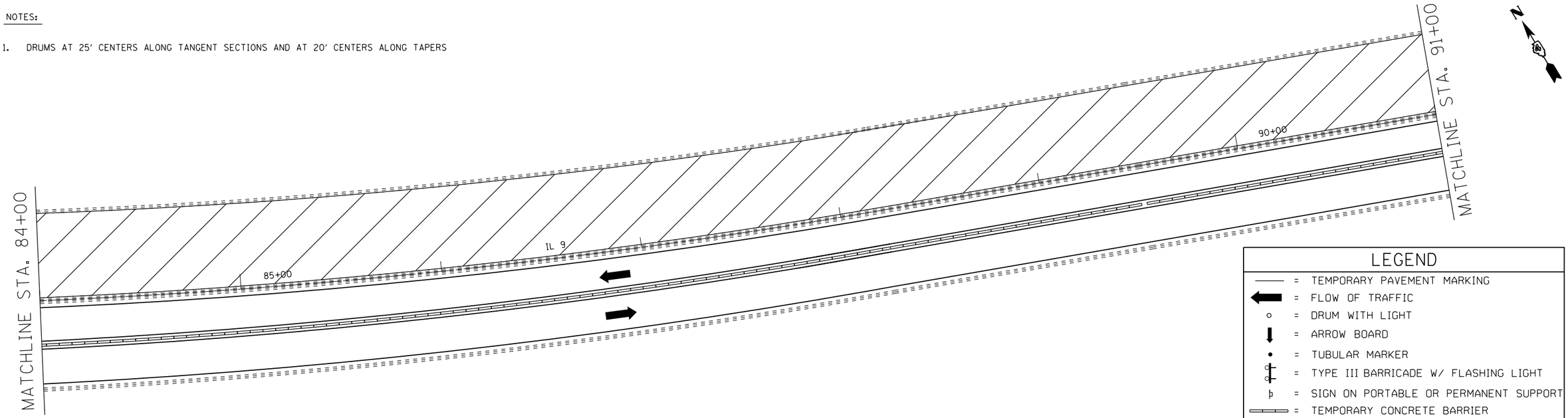
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	22
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. DRUMS AT 25' CENTERS ALONG TANGENT SECTIONS AND AT 20' CENTERS ALONG TAPERS



LEGEND

- = TEMPORARY PAVEMENT MARKING
- = FLOW OF TRAFFIC
- = DRUM WITH LIGHT
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- = TUBULAR MARKER
- = TYPE III BARRICADE W/ FLASHING LIGHT
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- = TEMPORARY CONCRETE BARRIER
- = IMPACT ATTENUATORS
- = WORK AREA

USER NAME = jschums/jg	DESIGNED -	REVISED -
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PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE TWO

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	23
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

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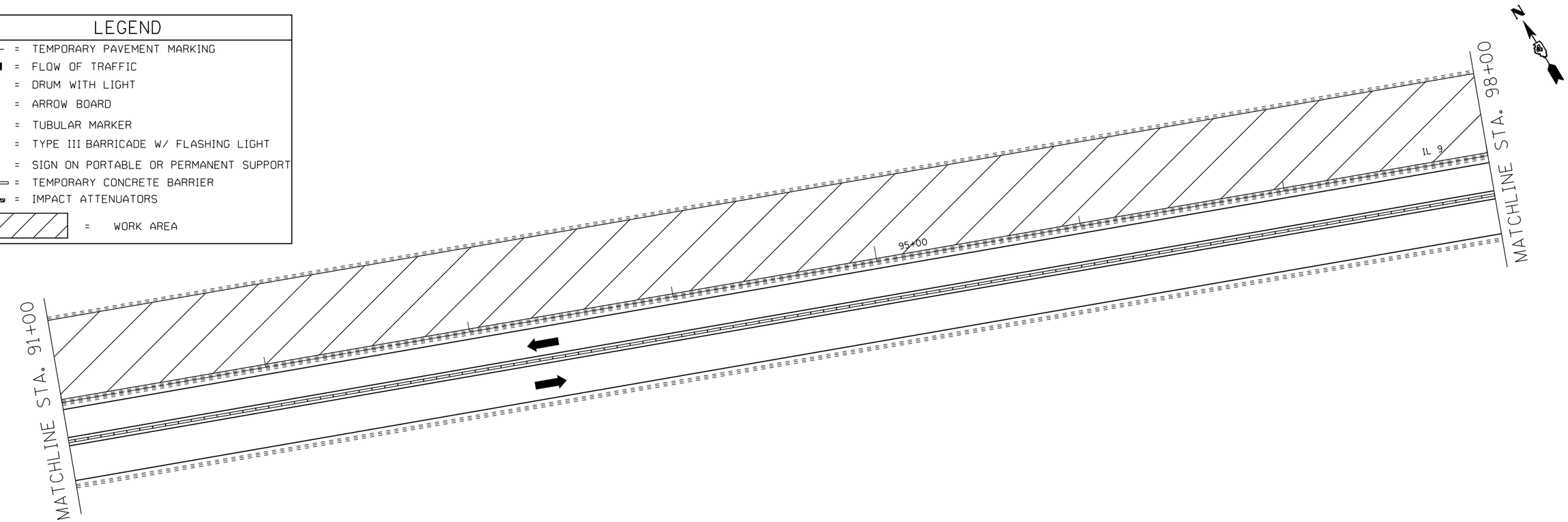
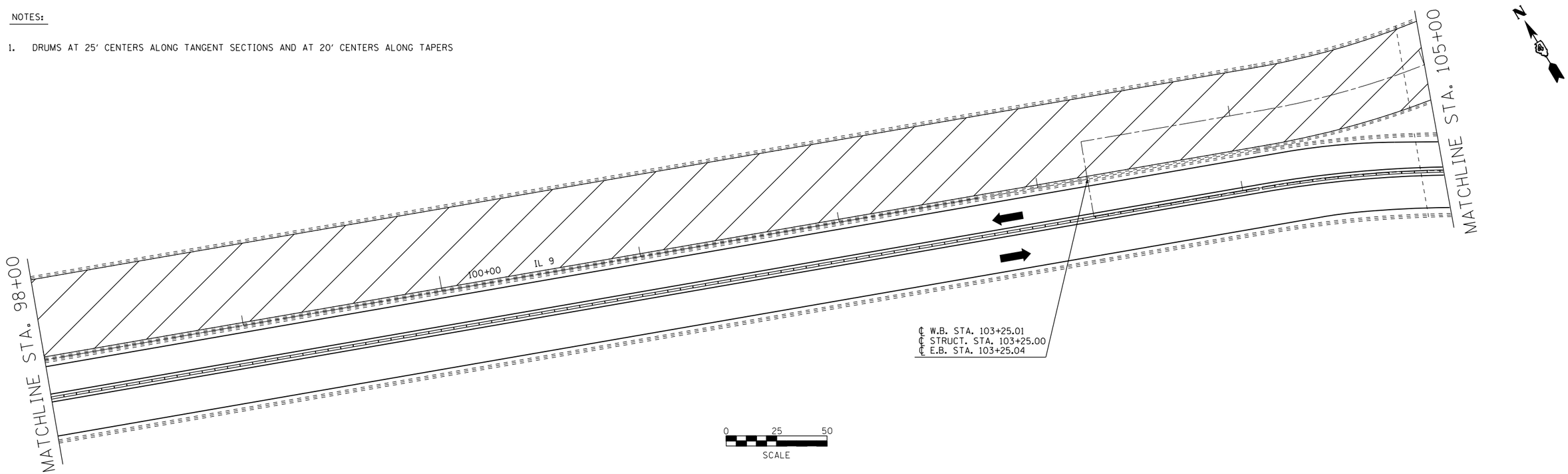
LEGEND

- = TEMPORARY PAVEMENT MARKING
- = FLOW OF TRAFFIC
- = DRUM WITH LIGHT
- = ARROW BOARD
- = TUBULAR MARKER
- = TYPE III BARRICADE W/ FLASHING LIGHT
- = SIGN ON PORTABLE OR PERMANENT SUPPORT
- = TEMPORARY CONCRETE BARRIER
- = IMPACT ATTENUATORS
- = WORK AREA



NOTES:

1. DRUMS AT 25' CENTERS ALONG TANGENT SECTIONS AND AT 20' CENTERS ALONG TAPERS



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PLOT DATE = 6/26/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE TWO

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	24
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	

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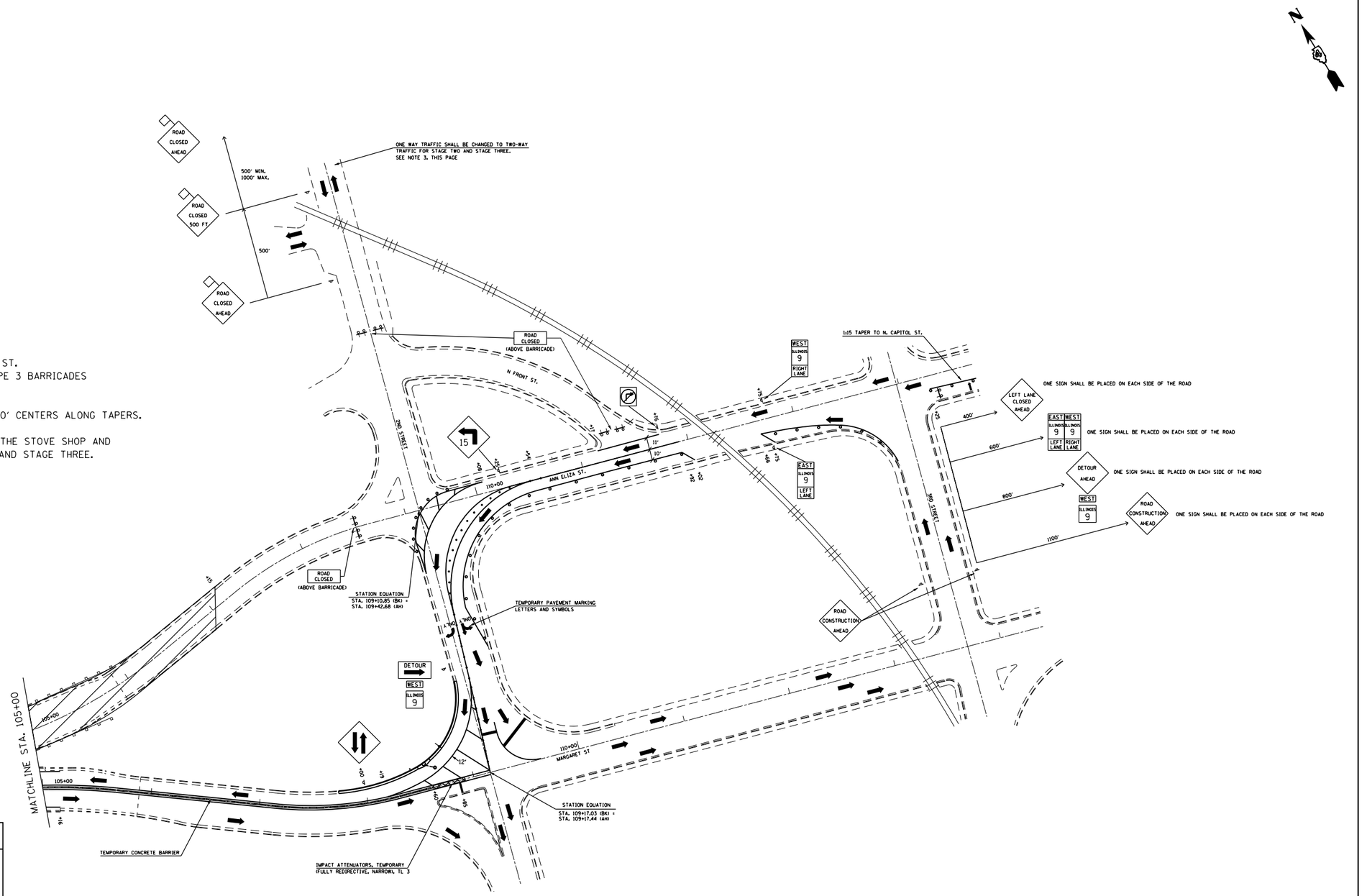
NOTES:

1. FRONT ST. AT THE INTERSECTION OF COURT ST. AND FRONT ST. SHALL BE CLOSED FOR STAGE TWO & STAGE THREE WITH TYPE 3 BARRICADES TO ALLOW WORK UNDERNEATH THE MCNAUGHTON BRIDGE.

2. DRUMS AT 25' CENTERS ALONG TANGENT SECTIONS AND AT 20' CENTERS ALONG TAPERS.

3. 2ND ST. BETWEEN THE ENTRANCE OF CITY COAL & ASPHALT/THE STOVE SHOP AND CAROLINE ST. SHALL BE TWO-WAY TRAFFIC FOR STAGE TWO AND STAGE THREE.



LEGEND

- = TEMPORARY PAVEMENT MARKING
- = FLOW OF TRAFFIC
- = DRUM WITH LIGHT
- = ARROW BOARD
- = TUBULAR MARKER
- = TYPE III BARRICADE W/ FLASHING LIGHT
- = SIGN ON PORTABLE OR PERMANENT SUPPORT
- = TEMPORARY CONCRETE BARRIER
- = IMPACT ATTENUATORS
- = WORK AREA

0 50 100
SCALE

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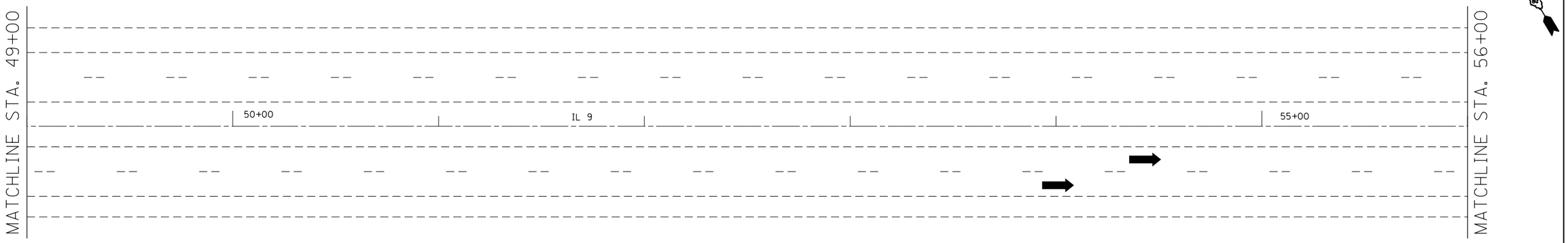
PLOT DATE = 6/26/2020	DATE -	REVISED -	

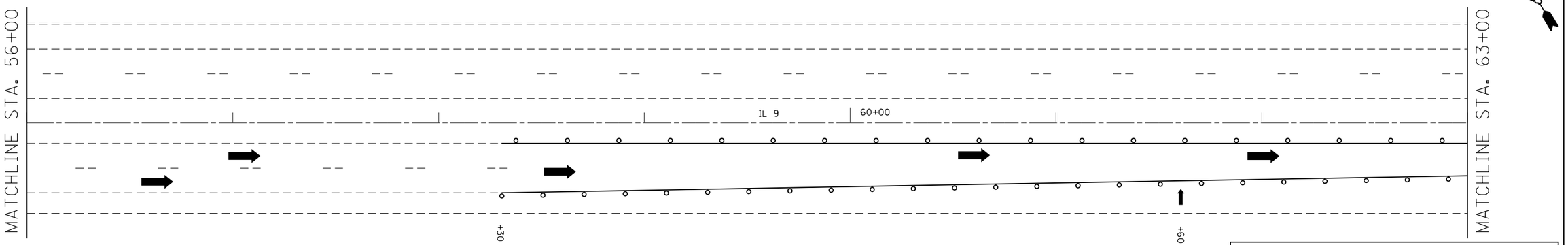
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE TWO

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

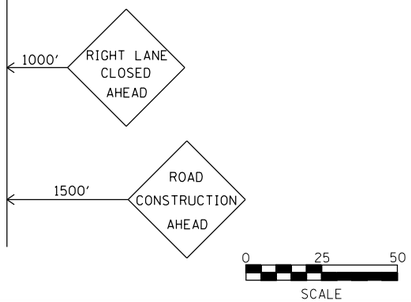
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	25
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		





NOTES:

1. DRUMS AT 25' CENTERS ALONG TANGENT SECTIONS AND AT 20' CENTERS ALONG TAPERS



LEGEND

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- = FLOW OF TRAFFIC
- = DRUM WITH LIGHT
- = ARROW BOARD
- = TUBULAR MARKER
- = TYPE III BARRICADE W/ FLASHING LIGHT
- = SIGN ON PORTABLE OR PERMANENT SUPPORT
- = TEMPORARY CONCRETE BARRIER
- = IMPACT ATTENUATORS
- = WORK AREA

USER NAME = jochumsjg	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE THREE

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	26
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

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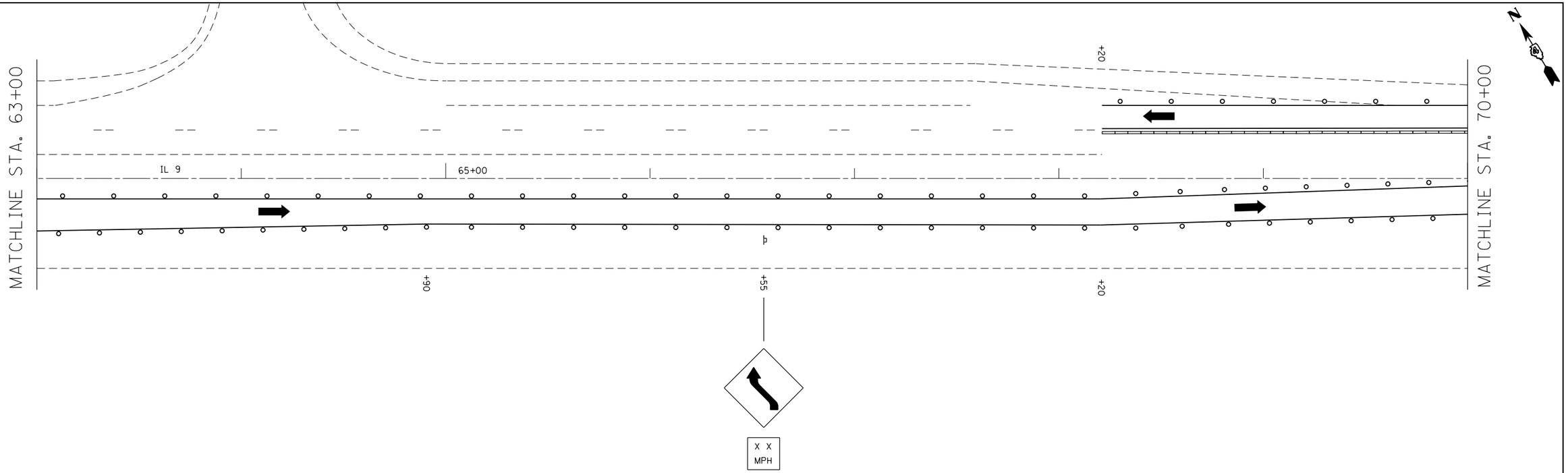

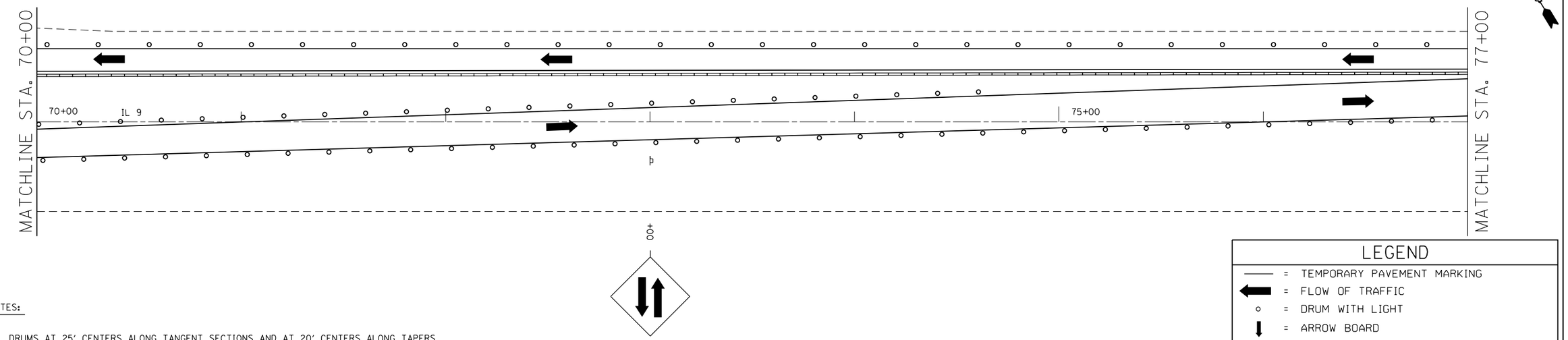

NOTES:

1. DRUMS AT 25' CENTERS ALONG TANGENT SECTIONS AND AT 20' CENTERS ALONG TAPERS

LEGEND

- = TEMPORARY PAVEMENT MARKING
- = FLOW OF TRAFFIC
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- = TYPE III BARRICADE W/ FLASHING LIGHT
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- = TEMPORARY CONCRETE BARRIER
- = IMPACT ATTENUATORS
- = WORK AREA

0 25 50
SCALE

USER NAME = jochumsjg	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE THREE

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	27
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

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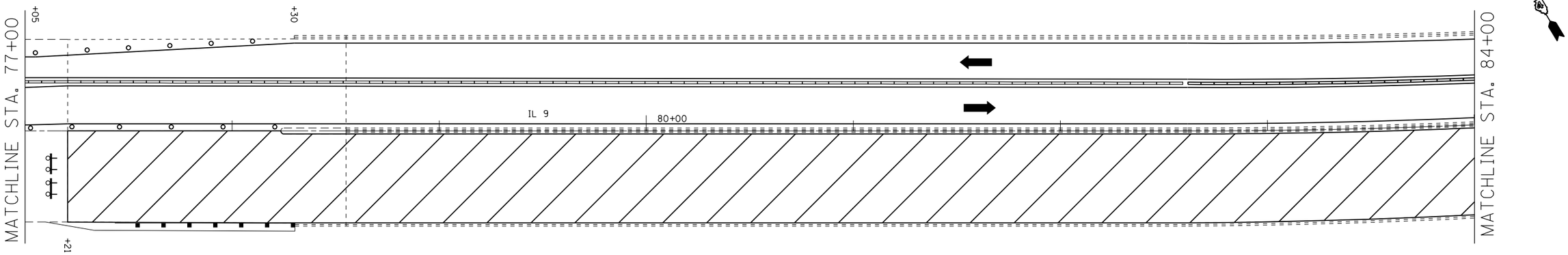

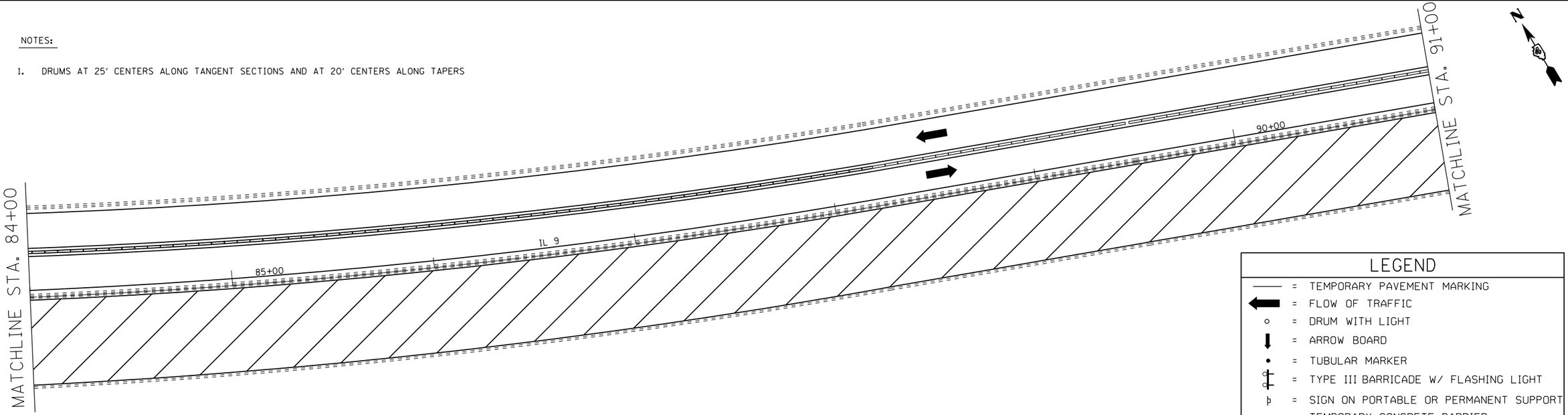

NOTES:

1. DRUMS AT 25' CENTERS ALONG TANGENT SECTIONS AND AT 20' CENTERS ALONG TAPERS

LEGEND

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- = TYPE III BARRICADE W/ FLASHING LIGHT
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- = TEMPORARY CONCRETE BARRIER
- = IMPACT ATTENUATORS
- = WORK AREA

0 25 50
SCALE

USER NAME = jschumsjg	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE THREE

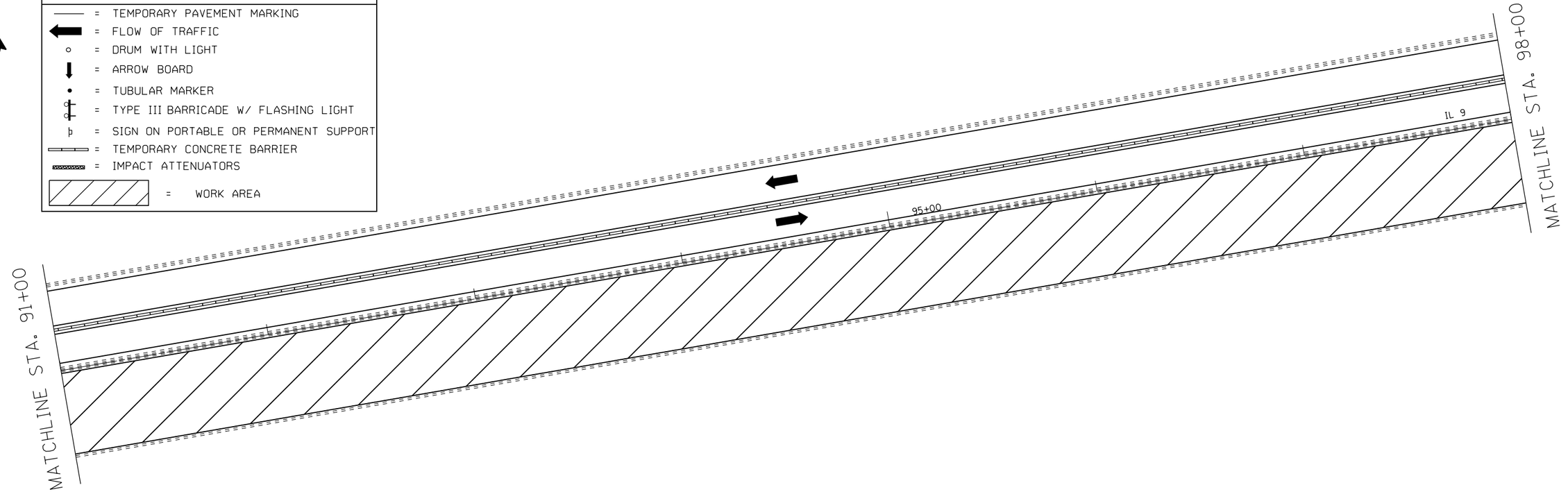
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	28
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

MODEL: sheets
FILE NAME: pw:\\plannroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 4\Projects\D4 68E79\CADData\CADDrawings\Changes For 7-31-2020 Letting

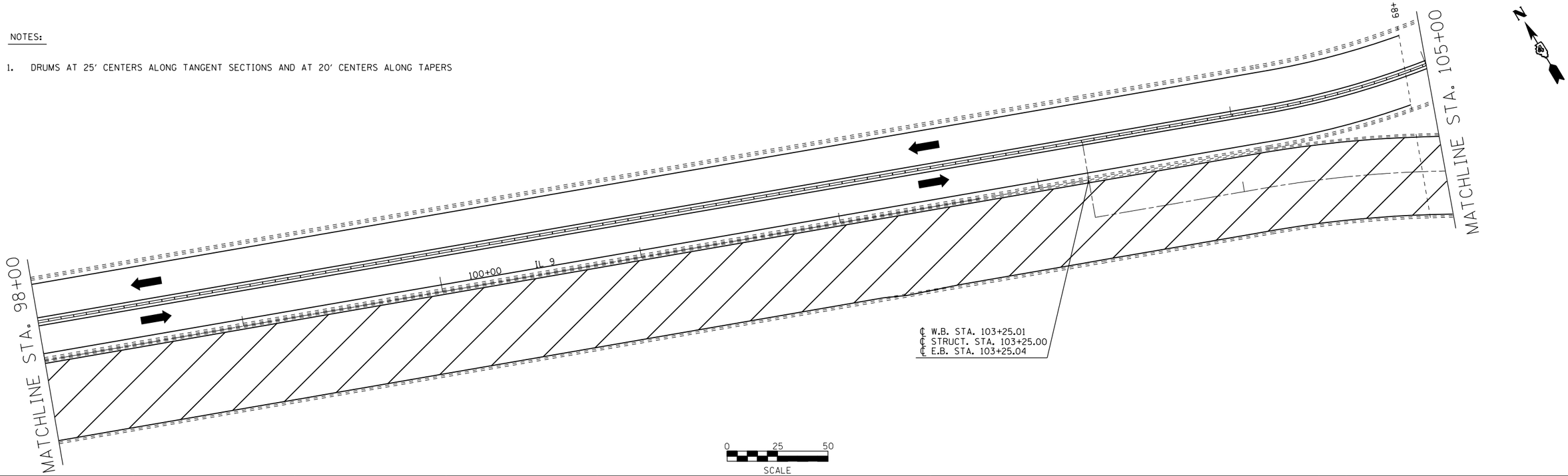
LEGEND

- = TEMPORARY PAVEMENT MARKING
- = FLOW OF TRAFFIC
- = DRUM WITH LIGHT
- = ARROW BOARD
- = TUBULAR MARKER
- = TYPE III BARRICADE W/ FLASHING LIGHT
- = SIGN ON PORTABLE OR PERMANENT SUPPORT
- = TEMPORARY CONCRETE BARRIER
- = IMPACT ATTENUATORS
- = WORK AREA



NOTES:

1. DRUMS AT 25' CENTERS ALONG TANGENT SECTIONS AND AT 20' CENTERS ALONG TAPERS



0 25 50
SCALE

USER NAME = jochumsjg	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE THREE

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	29
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	

MODEL: sheets
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LEGEND

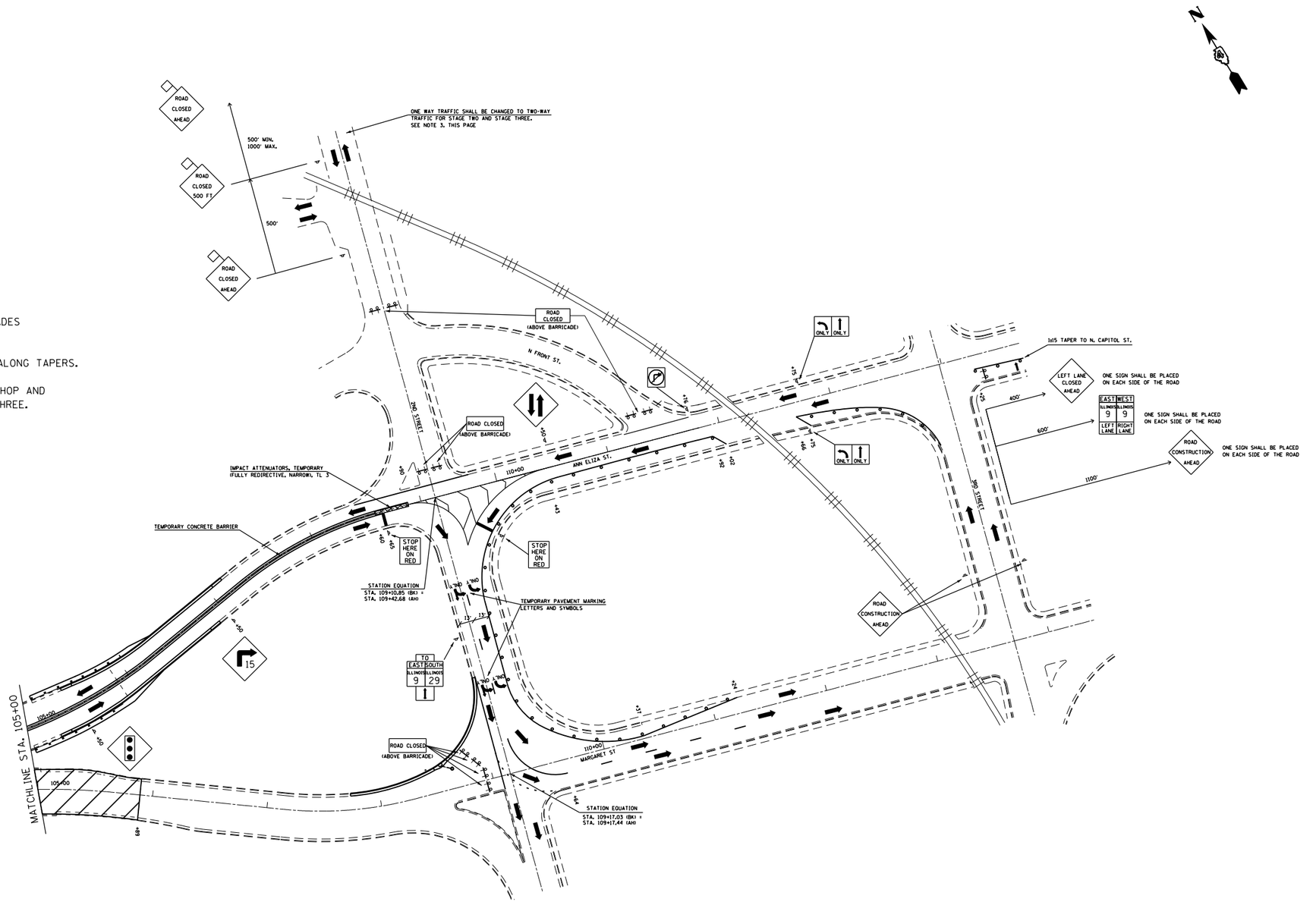
———	=	TEMPORARY PAVEMENT MARKING
⬅	=	FLOW OF TRAFFIC
○	=	DRUM WITH LIGHT
↓	=	ARROW BOARD
•	=	TUBULAR MARKER
	=	TYPE III BARRICADE W/ FLASHING LIGHT
þ	=	SIGN ON PORTABLE OR PERMANENT SUPPORT
	=	TEMPORARY CONCRETE BARRIER
	=	IMPACT ATTENUATORS
	=	WORK AREA

NOTES:

1. FRONT ST. AT THE INTERSECTION OF COURT ST. AND FRONT ST. SHALL BE CLOSED FOR STAGE TWO & STAGE THREE WITH TYPE 3 BARRICADES TO ALLOW WORK UNDERNEATH THE MCNAUGHTON BRIDGE.

2. DRUMS AT 25' CENTERS ALONG TANGENT SECTIONS AND AT 20' CENTERS ALONG TAPERS.

3. 2ND ST. BETWEEN THE ENTRANCE OF CITY COAL & ASPHALT/THE STOVE SHOP AND CAROLINE ST. SHALL BE TWO WAY TRAFFIC FOR STAGE TWO AND STAGE THREE.



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SCALE

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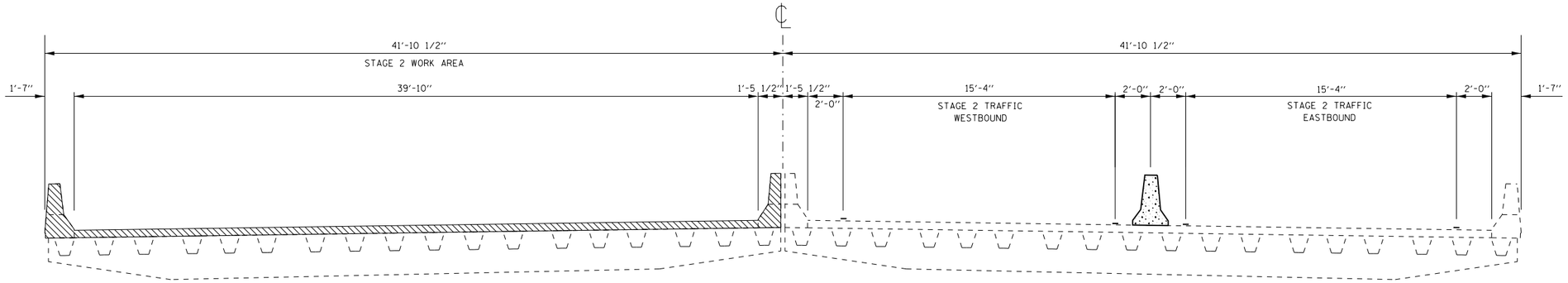
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/26/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC CONTROL
STAGE THREE

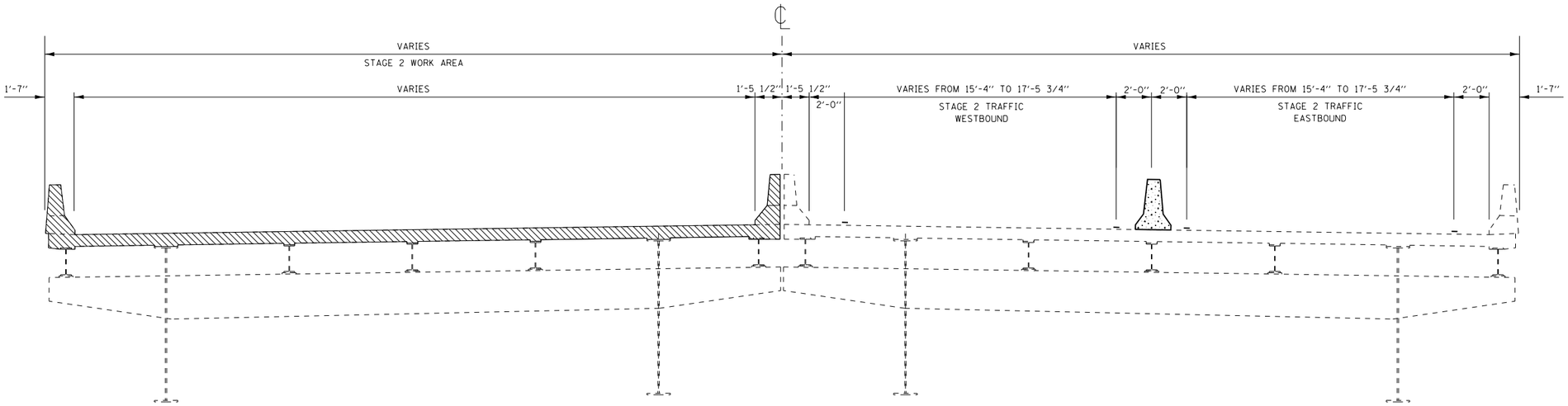
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	30
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL TYPICAL SECTION THRU MAIN RIVER SPANS

(SPANS 6,7, AND 8)



TRAFFIC CONTROL TYPICAL SECTION THRU APPROACH SPANS

(SPANS 1 THRU 5 AND 9)

LEGEND

	=	TEMPORARY CONCRETE BARRIER
	=	STAGE 2 WORK AREA
–	=	TEMPORARY PAVEMENT MARKING

MODEL: sheets
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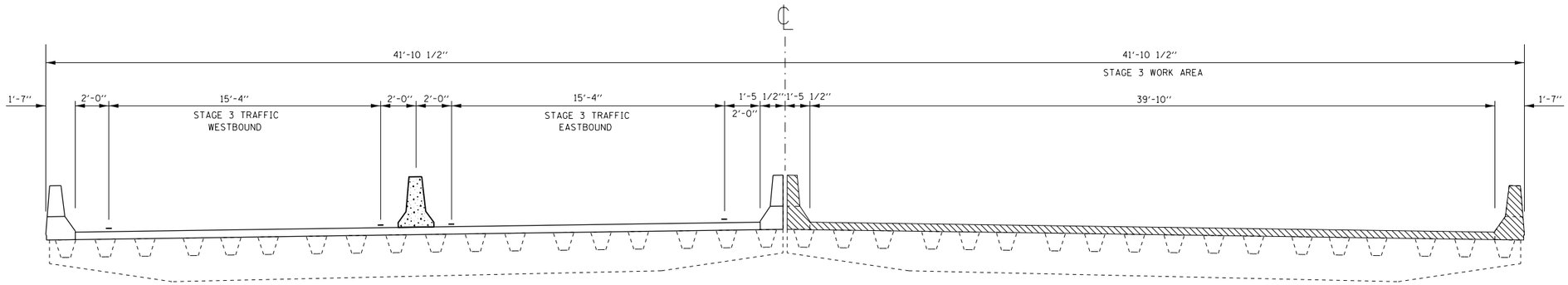
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/26/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS
STAGE 2

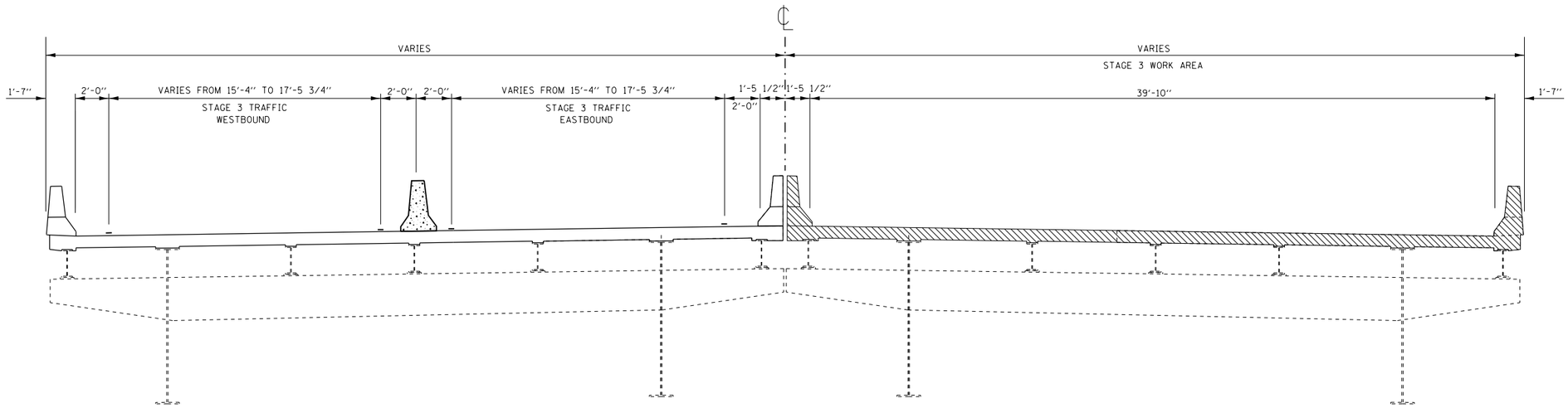
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	31
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL TYPICAL SECTION THRU MAIN RIVER SPANS

(SPANS 6,7, AND 8)



TRAFFIC CONTROL TYPICAL SECTION THRU APPROACH SPANS

(SPANS 1 THRU 5 AND 9)

LEGEND

	=	TEMPORARY CONCRETE BARRIER
	=	STAGE 3 WORK AREA
–	=	TEMPORARY PAVEMENT MARKING

MODEL: sheets
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USER NAME = jochumsjg	DESIGNED -	REVISED -	**STATE OF ILLINOIS**	**TRAFFIC CONTROL DETAILS**	
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**STAGE 3**	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -			
PLOT DATE = 6/26/2020	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	32
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

N

COMBINATION CURB AND GUTTER REMOVAL
173 FT

GUARDRAIL REMOVAL
81 FT

COMBINATION CURB AND GUTTER REMOVAL
166 FT

GUARDRAIL REMOVAL
69 FT

105+00

+15
+91
+94
+42
+13
+69
+25
+00

0 25 50
SCALE

TRANSITIONAL COMBINATION CONCRETE
CURB AND GUTTER, 10 FT

COMBINATION CONCRETE CURB AND GUTTER,
TY M (SPECIAL), 150 FT

AGGREGATE EROSION CONTROL

PCC BASE COURSE WIDENING 10"
6 SY

TRAFFIC BARRIER TERMINAL TYPE 1
(SPECIAL) TANGENT

P.T. OF CURB LINE
STA. 106+30

P.C. OF CURB LINE
STA. 105+58

R = 255'

TRANSITIONAL COMBINATION CONCRETE
CURB AND GUTTER, 10 FT

TRAFFIC BARRIER TERMINAL TYPE 6B

4 FT

+05
+36
+15
+04
+52
+42
+13
+81
+91
+26
+92
+83
+35
+25
+00

TRANSITIONAL COMBINATION CONCRETE
CURB AND GUTTER, 10 FT

COMBINATION CONCRETE CURB AND GUTTER,
TY M (SPECIAL), 151 FT

PCC BASE COURSE WIDENING 10"
9 SY

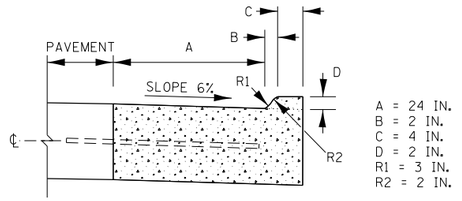
AGGREGATE EROSION CONTROL

TRAFFIC BARRIER TERMINAL TYPE 1
(SPECIAL) TANGENT

TRANSITIONAL COMBINATION CONCRETE
CURB AND GUTTER, 10 FT

TRAFFIC BARRIER TERMINAL TYPE 6B

105+00



A = 24 IN.
B = 2 IN.
C = 4 IN.
D = 2 IN.
R1 = 3 IN.
R2 = 2 IN.

COMBINATION CONCRETE CURB GUTTER, TY M (SPECIAL)

MODEL: sheets
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USER NAME = jochumsjg	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/26/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS
EXISTING & PROPOSED

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	33
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			

2ND STREET

ANN ELIZA ST.

110+00

111

109

108

STATION EQUATION
STA. 109+10.85 (BK) =
STA. 109+42.68 (AH)

COMBINATION CURB AND GUTTER REMOVAL, 77 FT.
MEDIAN REMOVAL, 180 SF

+04
88.90' LT

ELECTRICAL ITEMS TO BE RELOCATED
SEE ELECTRICAL SHEETS FOR DETAILS

COMBINATION CURB AND GUTTER REMOVAL
180 FT

EXISTING LIGHT POLE

+74

COMBINATION CURB AND GUTTER REMOVAL, 71 FT
MEDIAN REMOVAL, 155 SF

110+00
MARGARET ST

109

108

STATION EQUATION
STA. 109+17.03 (BK) =
STA. 109+17.44 (AH)

2ND STREET

ANN ELIZA ST.

110+00

111

109

108

STATION EQUATION
STA. 109+10.85 (BK) =
STA. 109+42.68 (AH)

DURING STAGE 1, "TEMPORARY PAVEMENT", 38 SY.
AFTER STAGE 3, THE TEMPORARY PAVEMENT
SHALL BE REMOVED WITH
"TEMPORARY PAVEMENT REMOVAL", 38 SY.
THIS AREA SHALL BE REPLACED WITH
"CONCRETE MEDIAN, TYPE SB-6.24", 343 SF

TE

+04
88.90' LT

CCC&G, TY B6.24
180 FT

PCC BASE COURSE WIDENING 10"
91 SY

INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID
STA. 108+68, 17.22' LT
GRATE ELEV. = 473.41
INVERT ELEV. = 470.69

INLETS, TYPE G-1
STA. 108+59, 22.0' LT
GRATE ELEV. = 473.64
INVERT ELEV. = 470.79

RADIUS BREAK POINT
+49.85, 21.63' LT

R=172.42'

R=172.42'

+74

STORM SEWERS, CLASS A, TYPE 1, 12"
LENGTH = 10 FT.

DURING STAGE 1, "TEMPORARY PAVEMENT", 36 SY.
AFTER STAGE 3, THE TEMPORARY PAVEMENT
SHALL BE REMOVED WITH
"TEMPORARY PAVEMENT REMOVAL", 36 SY.
THIS AREA SHALL BE REPLACED WITH
"CONCRETE MEDIAN, TYPE SB-6.24", 325 SF

110+00
MARGARET ST

109

108

STATION EQUATION
STA. 109+17.03 (BK) =
STA. 109+17.44 (AH)

0 25 50
SCALE

MODEL: sheets
FILE NAME: pw:\\dlanroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 4\Projects\04_68E79\CADData\CADdrawings\Changes For 7-31-2020 Letting

USER NAME = jachumsjg	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/26/2020	DATE -	REVISED -	

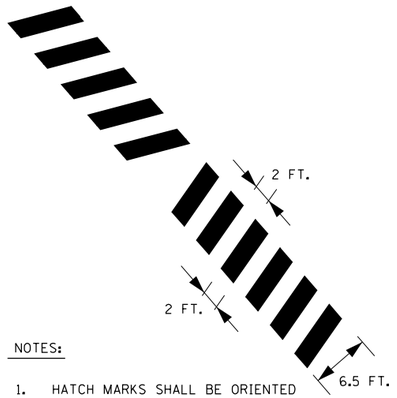
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS
EXISTING & PROPOSED

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	34
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

CROSSWALK DETAIL



NOTES:

1. HATCH MARKS SHALL BE ORIENTED PARALLEL WITH THE DIRECTION OF TRAFFIC. SPACING OF HATCH MARKS AND ORIENTATION TYPICAL FOR ALL CROSSWALKS.

NOTES:

1. NOT ALL STRIPING PAY ITEMS ARE LABLED. LABELS SHOWN ARE FOR CLARIFICATION. SEE SCHEDULE OF QUANTITIES FOR TOTAL STRIPING QUANTITIES.

USER NAME = jochumsjg	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/26/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED STRIPING

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	35
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

MODEL: sheets
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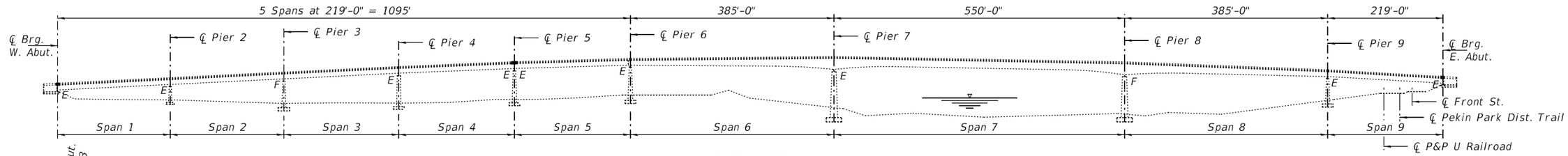
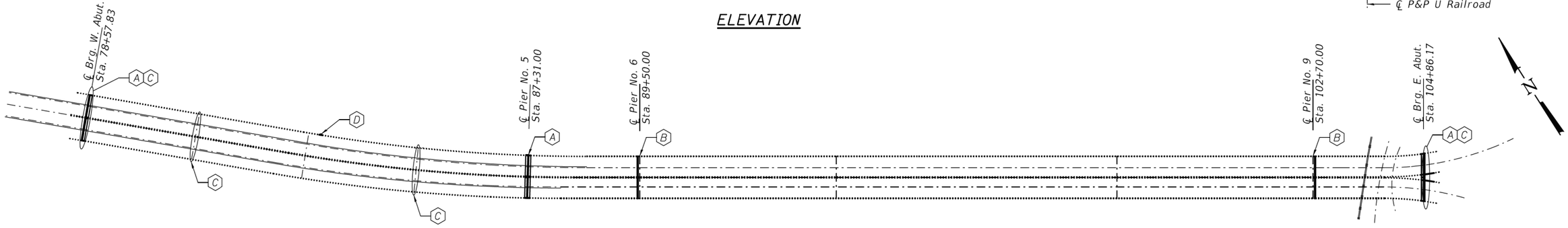
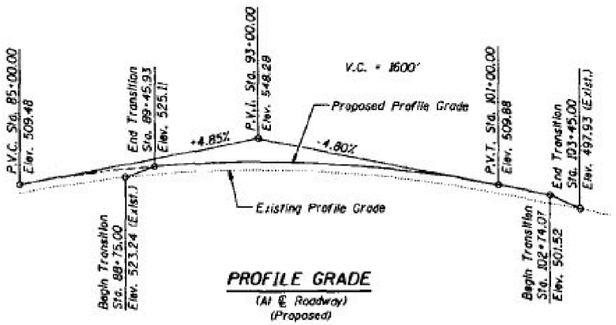


ELEVATION





PROFILE GRADE
(At ℄ Roadway)
(Proposed)

PLAN

(A) Remove and replace Modular Joint.

(B) Remove and replace Preformed Joint Strip Seal.

(C) Remove Rocker Bearings and replace with HLMR Bearings.

(D) Remove and replace concrete for light standard. See sheet 17 of 23 for details.

CURVE DATA
P.I. Sta. 85+41.51
P.C. Sta. 82+60.12
P.T. Sta. 88+21.52
Δ = 9°-49'-28.1"
D = 1°-45'-00"
R = 3274.04'
T = 281.39'
L = 561.40'
S.E. = .05'/ft.

WESTBOUND CURVE DATA
P.I. Sta. 105+42.47
P.C. Sta. 104+10.01
P.T. Sta. 106+70.50
Δ = 25°-36'-02"
D = 9°-49'-40"
R = 583.00'
T = 132.46'
L = 260.49'
S.E. = .04'/ft.

EASTBOUND CURVE DATA
P.I. Sta. 104+89.50
P.C. Sta. 104+10.04
P.T. Sta. 105+67.99
Δ = 15°-31'-28"
D = 9°-49'-40"
R = 583.00'
T = 79.46'
L = 157.95'
S.E. = .04'/ft.

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Reinforcement bars designated (E) shall be epoxy coated.

Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$"Ø, open holes $1\frac{5}{16}$"Ø, unless otherwise noted.

Prior to pouring the new concrete deck, all heavy or loose rust, 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 the pay item covering removal of the existing concrete.

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 scope of the 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.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

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

New bearing plates, steel extensions, shim plates, side retainers, anchor bolts, connection bolts, nuts and washers shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing For Structural Steel".

Construction shall be completed utilizing crossovers.

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD ILLINOIS
STATE OF ILLINOIS

EXPIRES 11-30-2020

DESIGNED - Alex J. Rush	EXAMINED	DATE - JUNE 23, 2020	
CHECKED - Jeffrey S. Burke	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
IL 9 OVER ILLINOIS RIVER
SN 090-0114
SHEET NO. 1 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	36
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			

BOLT INSTALLATION REPAIR

NBIS ITEM	SPAN	MEMBER / LOCATION	DEFFICIENCY
71	2	Drain @ G8 Btwn. FB. 3 & 4	2 broken bolts in brkt.
54	2	G6 Bot. Flg. Splice PL. Btwn. FB. 7& 8	1 Loose Bolt
55	2	Str. 1 Bot. Flg. Splice PL. Btwn. FB. 7 & 8	1 Loose Bolt
36	2	FB. 8 South Conn. PL. of FB. 8 @ G8	4 Loose Bolts
74	3	FB. 6 @ G6 Inside Bot. Conn. PL	1 Missing Bolt
37	3	Drain @ G5 Btwn. FB. 7 & 8	2 bolts broken on brkt. Connecting to G5
56	3	Catwalk, Hanger Conn. @ FB. 8 Btwn. S8 & S9	1 Missing Bolt
83	4	G5 @ FB. 10, P5	1 Loose Bolt, Bot. Flg. To Conn. PL
39	5	Drain @ G12 Btwn. FB. 7 & 8	2 Missing Bolts and Missing Brkt.
58	5	Catwalk, N. Rail, 3rd Post from P6	1 Missing Bolt & Hole Misaligned Btwn. S7 & S8
60	6	G3 Box Gir. Pan. 4, S Web, Top Stiff @ Web Splice	1 Loose Bolt
61	6	G4 Box Gir. Pan. 7, Bot. Flg. @ Splice	1 Missing Bolt
62	6	G2 Bos Gir. Pan. 10, Top of N. Web Splice	1 Missing Bolt
41	6	G4 Box Gir. Pan. 13, N Web @ Splice	1 Loose Nut at Splice
63	6	G3 Box Gir. Pan. 13, S Web, 3rd from Bot. Stiff. @ Web Splice	1 Loose Nut at Splice
94	6	G1 Box Gir. Pan. 13, S Web, @ Web Splice	1 Loose Bolt @ Horiz. Stiff. Splice
64	6	G1 Box Gir. Pan. 19, S Web, Top Stiff. @ Web Splice	1 Loose Bolt @ Splice
65	6	G4 Box Gir. Pan. 19, Bot. Flg., Stiff. @ Web Splce	11 Loose Nuts, 1 Missing Bolt and 1 Missing Nut at Splice
66	7	G3 Box Gir. Pan. 23, N Web, 2nd Stiff. From Floor, Web Splice	1 Loose Nut at Splice
52	8,9	Brg. NW Anchor Bolt Below G4 @ P9	Nut is Loose
16	7,8	G2 Brg. @ P8	2 bolts missing
98	7,8	G3 Brg. @ P8	3 loost nuts

TOTAL BILL OF MATERIAL

	ITEM	UNIT	QUANTITY
	Concrete Removal	Cu. Yd.	113.6
	Concrete Structures	Cu. Yd.	25.5
	Concrete Superstructure	Cu. Yd.	118.2
	Reinforcement Bars, Epoxy Coated	Pound	22390
*	Protective Coat	Sq. Yd.	235
	Mechanical Splicers	Each	388
	Anchor Bolts 1¼"	Each	20
	Anchor Bolts 1½"	Each	80
	Dowel Bars, ⅝"	Each	8
	Modular Expansion Joint 6"	Foot	90
	Modular Expansion Joint 9"	Foot	93
	Modular Expansion Joint 18"	Foot	84
	Preformed Joint Strip Seal	Foot	164
	Structurai Repair of Concrete (Depth ≤ 5")	Sq. Ft.	262
***	Deck Slab Repair (Partial)	Sq. Yd.	1070
	Jack and Remove Existing Bearings	Each	16
	High Load Multi-Rotational Bearings, Guided Expansion, 650k	Each	4
	High Load Multi-Rotational Bearings, Guided Expansion, 700k	Each	4
	High Load Multi-Rotational Bearings, Guided Expansion, 1700k	Each	4
	High Load Multi-Rotational Bearings, Guided Expansion, 1900k	Each	4
	Structurai Steel Removal	Pound	110
**	Structurai Steel Repair	Pound	50
	Structurai Repair of Concrete (Depth > 5")	Sq. Ft.	524

* On new concrete adjacent to joints and new light standard only.
** Installation of missing bolts.
*** Quantity includes deck repair on spans 1 thru 5 and 9.

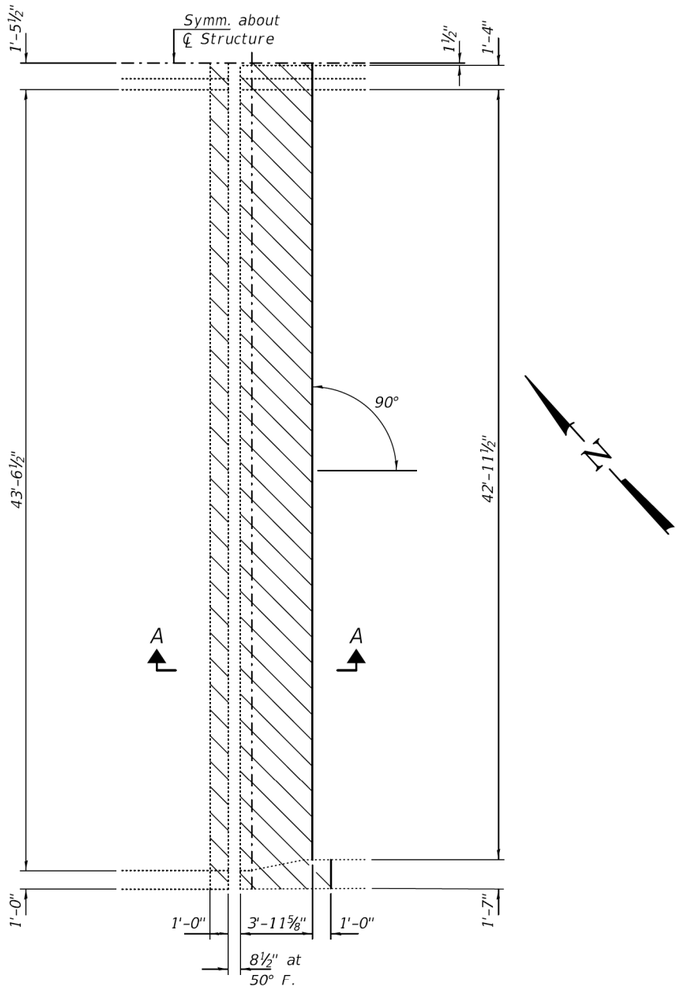
DESIGNED - AJR
CHECKED - JSB
DRAWN - daburdell
CHECKED - AJR JSB

EXAMINED — ENGINEER OF STRUCTURAL SERVICES
PASSED — ENGINEER OF BRIDGES AND STRUCTURES
DATE - JUNE 23, 2020
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DETAILS AND BILL OF MATERIAL
SN 090-0114
SHEET NO. 2 OF 23 SHEETS

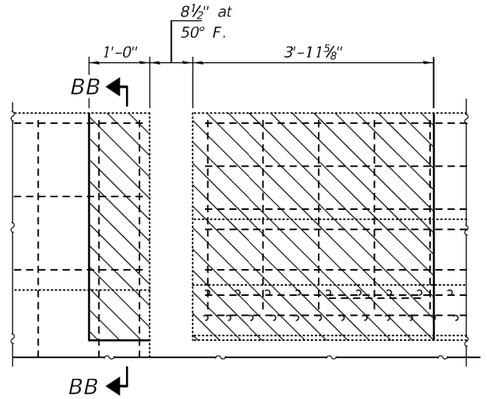
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	37
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



CONCRETE REMOVAL DETAILS

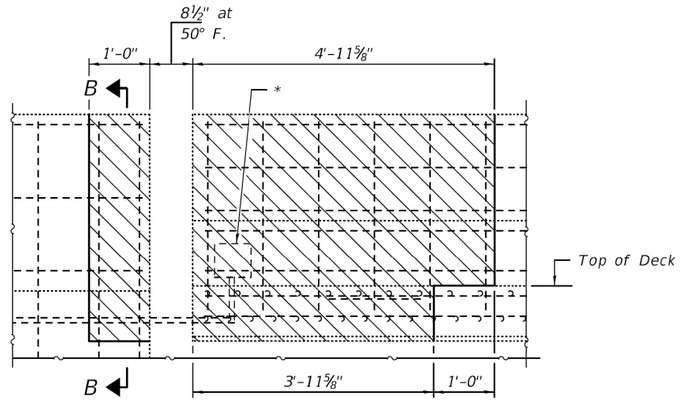
(West Abutment – E.B. shown, W.B. typ. by mirroring)

Note:
Hatched areas indicate Concrete Removal.



INSIDE PARAPET ELEVATION

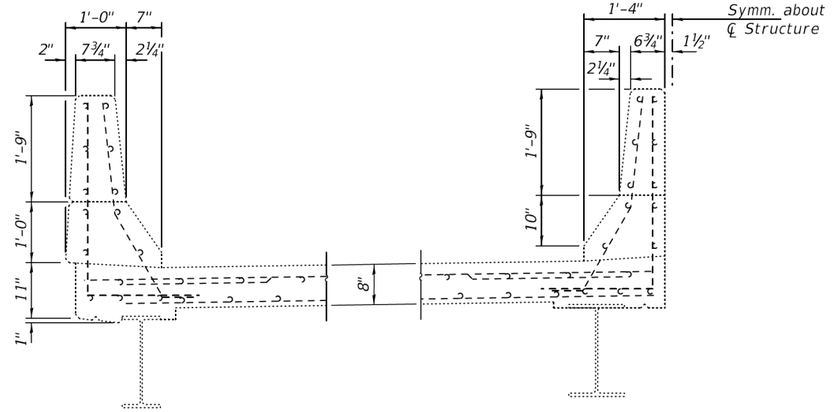
(Looking North)



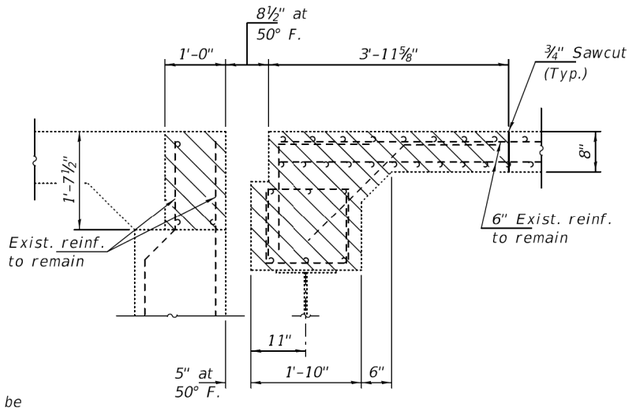
OUTSIDE PARAPET ELEVATION

(Looking North)

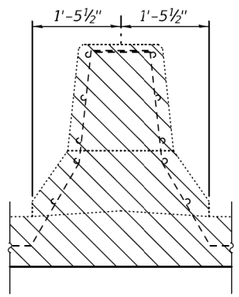
* Existing electrical box should be removed, temporarily supported and reattached after concrete work is completed.



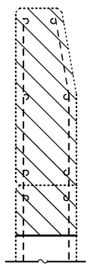
SECTION THRU PARAPETS



SECTION A-A

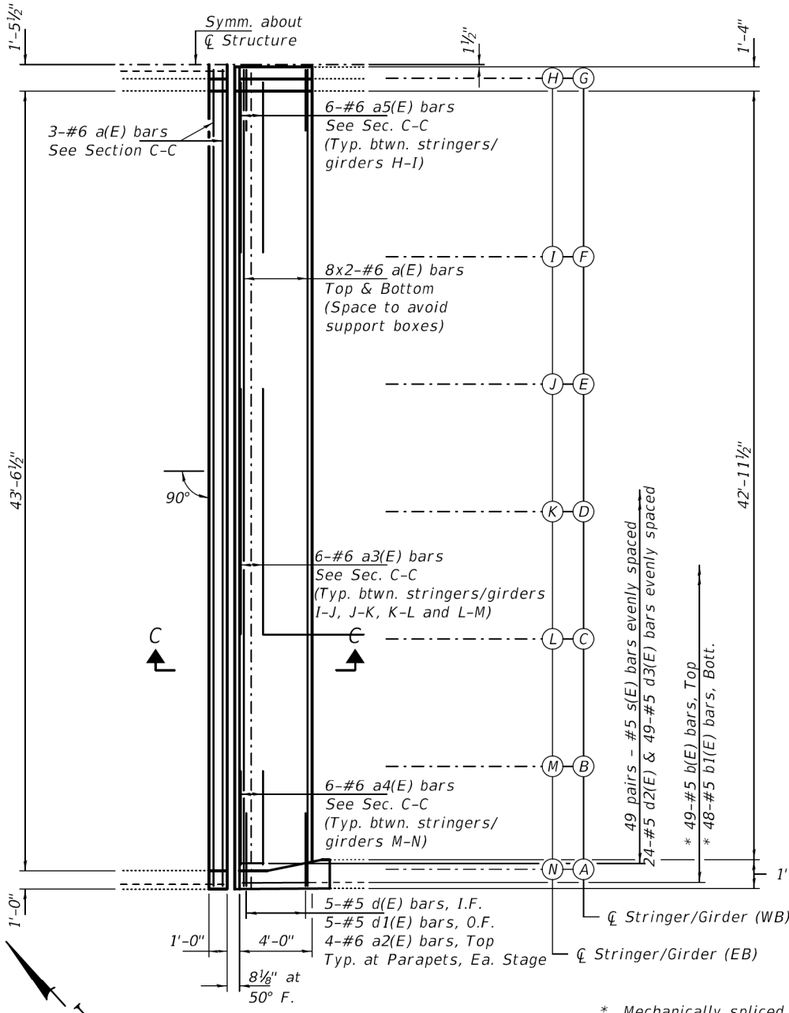


SECTION BB-BB



SECTION B-B

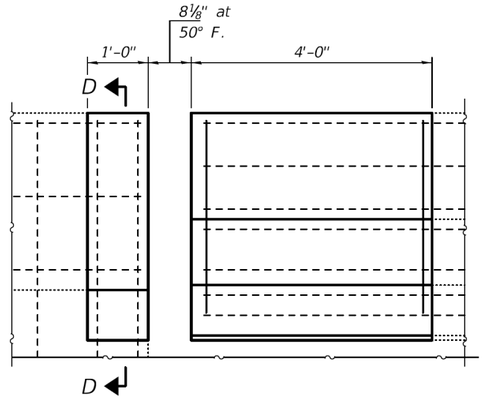
DESIGNED - AJR	EXAMINED	ENGINEER OF STRUCTURAL SERVICES	DATE - JUNE 23, 2020	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**JOINT REMOVAL - WEST ABUTMENT SN 090-0114**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JSB						693	(12B)BR,BDR,BJR	PEORIA	92	38
DRAWN - *daburdell*	PASSED	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 3 OF 23 SHEETS			CONTRACT NO. 68E79		
CHECKED - AJR JSB			REVISED -					ILLINOIS	FED. AID PROJECT	



CONCRETE REPLACEMENT DETAILS

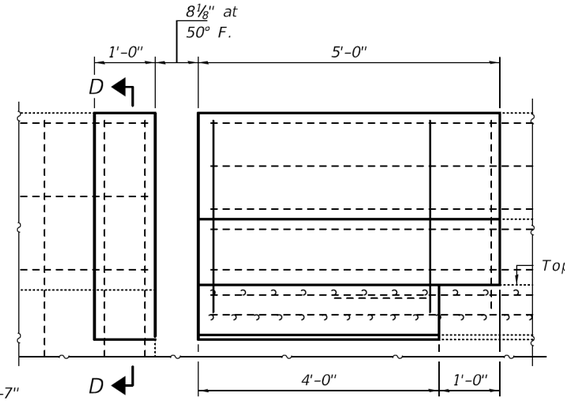
(West Abutment - E.B. shown, W.B. typ. by mirroring)

Note:
Place d2(E) bars between modular jt. support boxes.



INSIDE PARAPET ELEVATION

(Looking North)



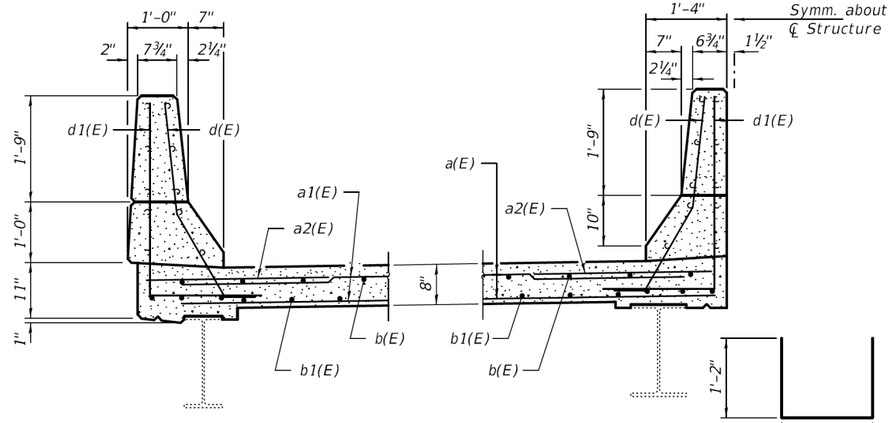
OUTSIDE PARAPET ELEVATION

(Looking North)

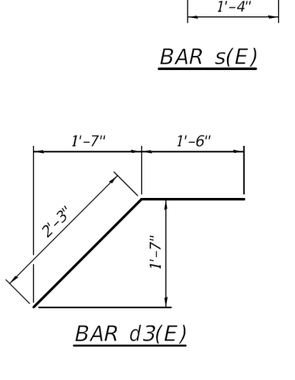
* Mechanically spliced to existing reinforcement and cut to fit at support boxes.

MINIMUM BAR LAP

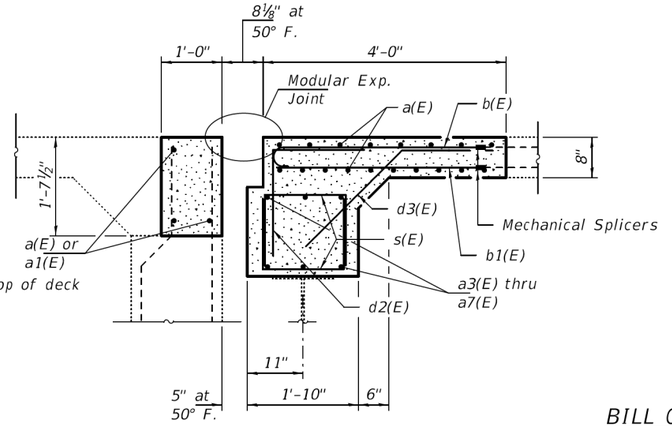
#6 bar = 3'-7"



SECTION THRU PARAPETS



BAR s(E)



SECTION C-C

(Modular joint not shown for clarity)

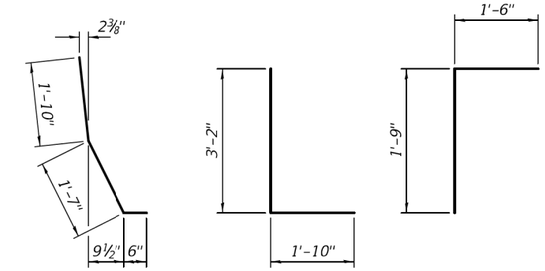
BAR d3(E)

BILL OF MATERIAL - W. ABUT.

Bar	No.	Size	Length	Shape
a(E)	64	#6	24'-7"	
a2(E)	16	#6	4'-0"	
a3(E)	48	#6	6'-8"	
a4(E)	12	#6	5'-4"	
a5(E)	12	#6	9'-4"	
b(E)	98	#5	3'-11"	
b1(E)	96	#5	3'-4"	
d(E)	20	#5	3'-11"	
d1(E)	20	#5	5'-0"	
d2(E)	48	#5	3'-3"	
d3(E)	98	#5	3'-9"	
s(E)	196	#5	3'-8"	
Concrete Removal			Cu. Yd.	27.0
Concrete Superstructure			Cu. Yd.	27.1
Mechanical Splicers			Each	194
Protective Coat			Sq. Yd.	62
Modular Expansion Joint, 6"			Foot	90
Reinforcement Bars, Epoxy Coated			Pound	5420

Placement of reinforcement within the joint block out needs to be coordinated with the joint manufacturer.

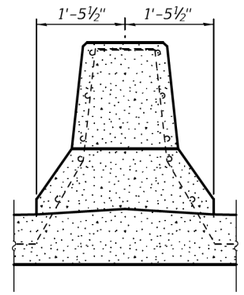
Bars indicated thus 8x2-#6 etc. indicates 8 line of bars with 2 lengths per line.



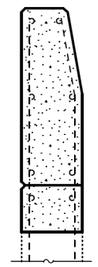
BAR d(E)

BAR d1(E)

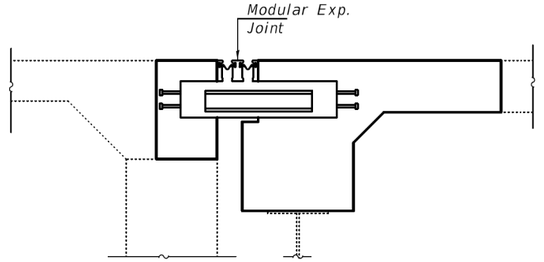
BAR d2(E)



SECTION DD-DD

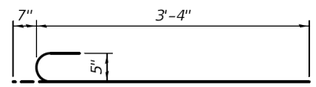


SECTION D-D



SECTION C-C

(Reinforcement not shown for clarity)



BAR b(E)

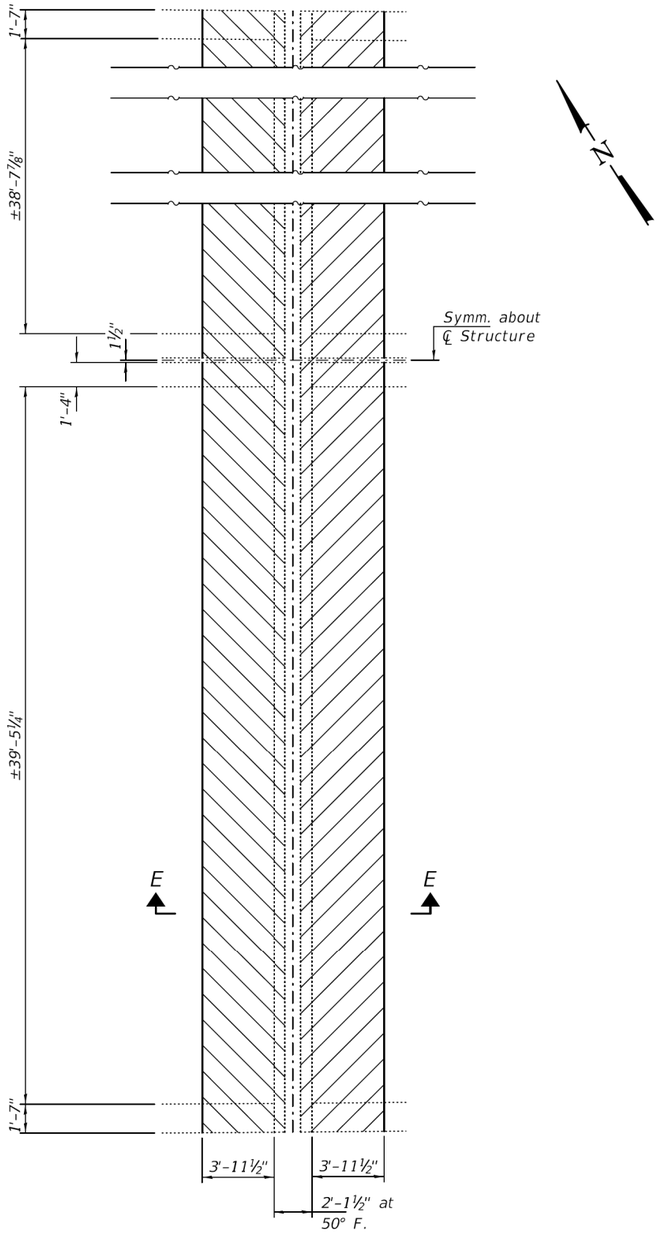
DESIGNED - AJR	EXAMINED		DATE - JUNE 23, 2020	
CHECKED - JSB		ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED		REVISED -	
CHECKED - AJR JSB		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT - WEST ABUTMENT
SN 090-0114

SHEET NO. 4 OF 23 SHEETS

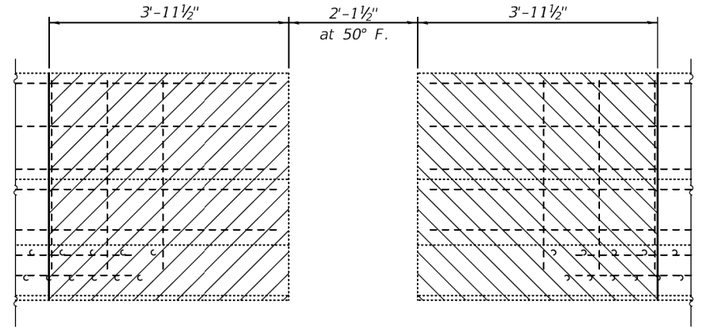
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	39
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



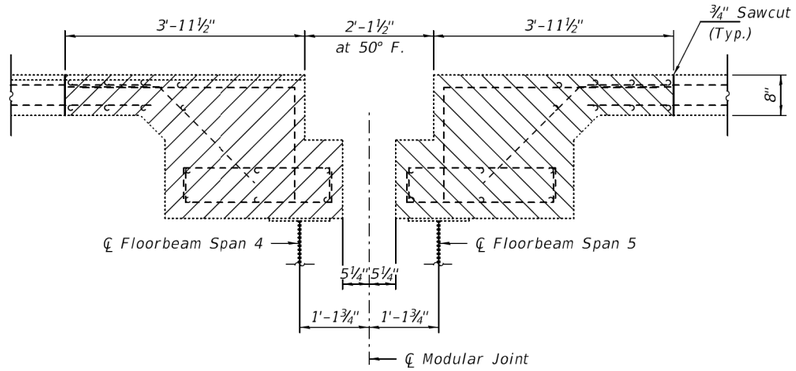
CONCRETE REMOVAL DETAILS

(Pier 5 - E.B. shown,
W.B. typ. by mirroring,
except as noted.)

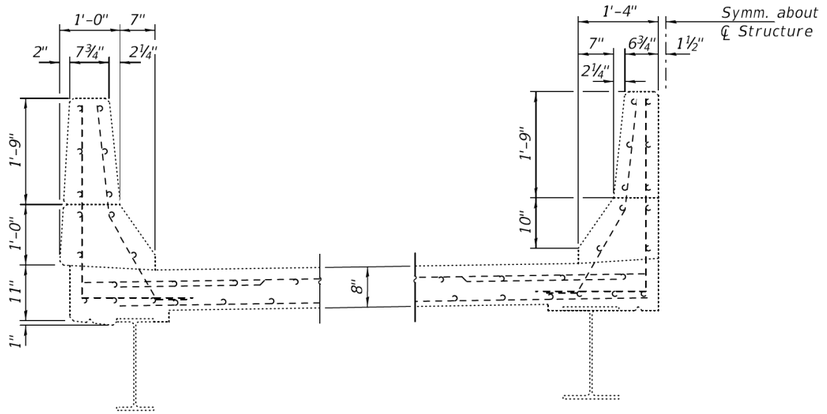
Note:
Hatched areas indicate
Concrete Removal.



PARAPET ELEVATION

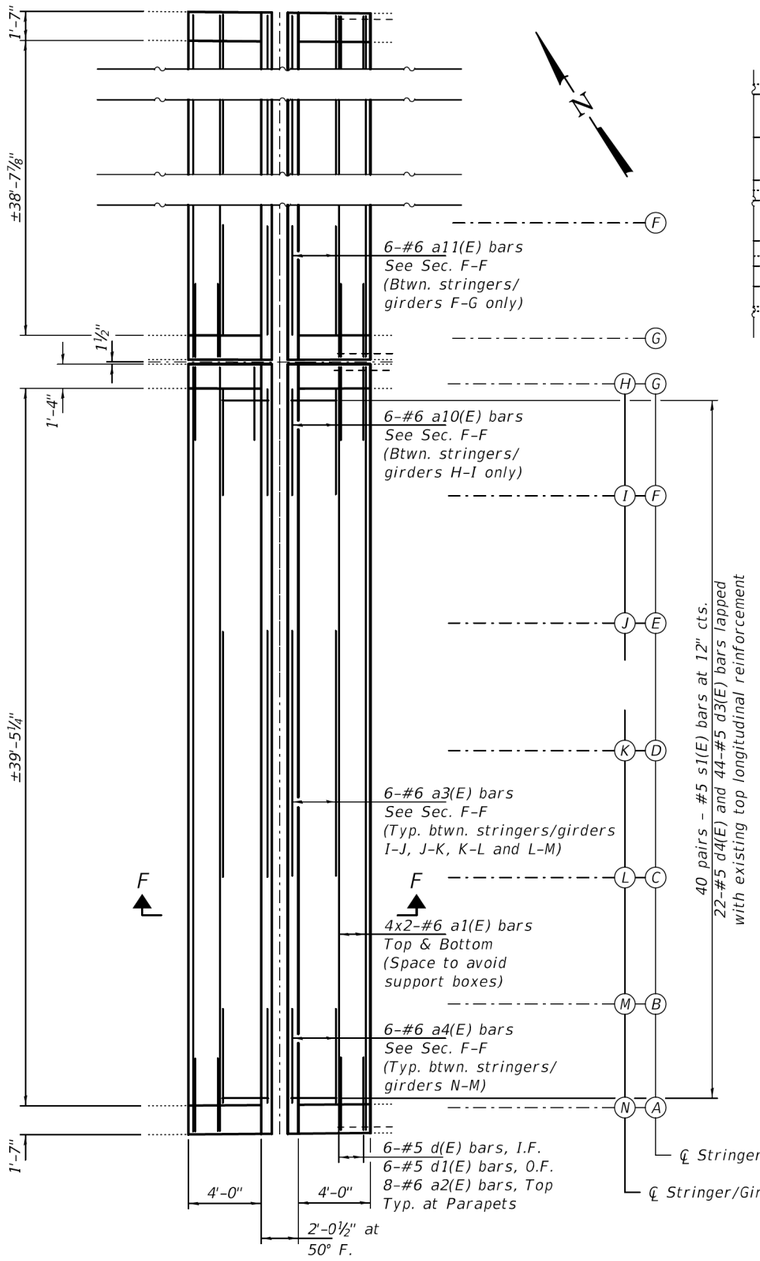


SECTION E-E



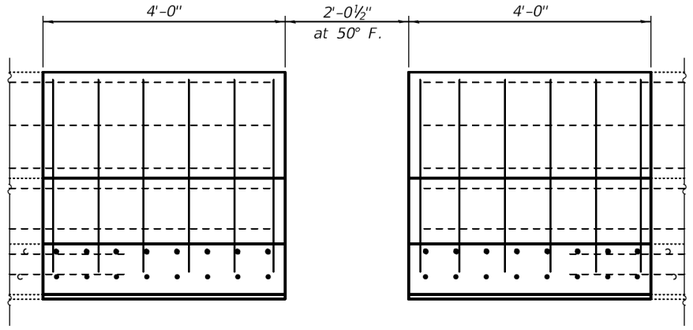
SECTION THRU PARAPETS

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	**STATE OF ILLINOIS**	**JOINT REMOVAL - PIER 5**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		**DEPARTMENT OF TRANSPORTATION**	**SN 090-0114**	693	(12B)BR,BDR,BJR	PEORIA	92	40
DRAWN - *daburdell*	PASSED	REVISED -					CONTRACT NO. 68E79		
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 5 OF 23 SHEETS			ILLINOIS	FED. AID PROJECT	

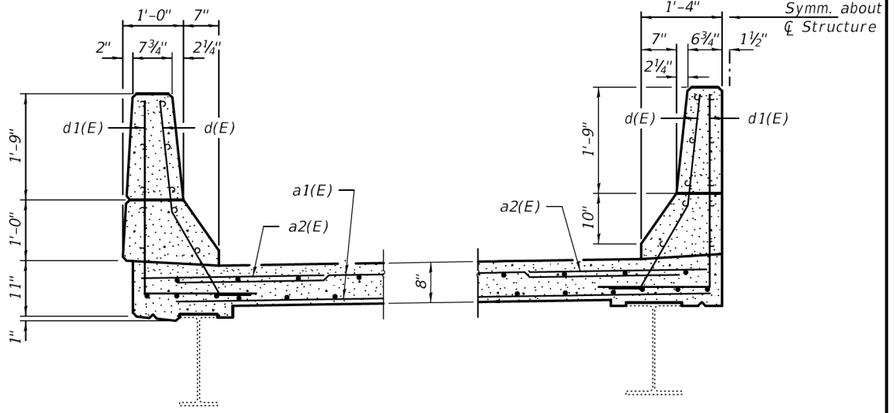


CONCRETE REPLACEMENT DETAILS

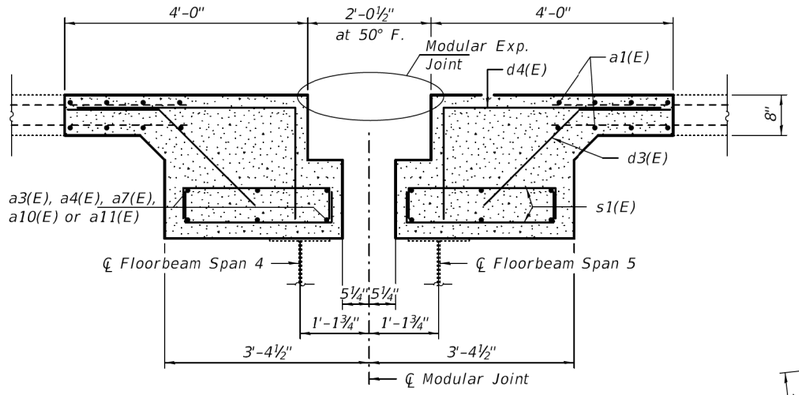
(Pier 5 - E.B. shown,
W.B. typ. by mirroring,
except as noted.)



PARAPET ELEVATION

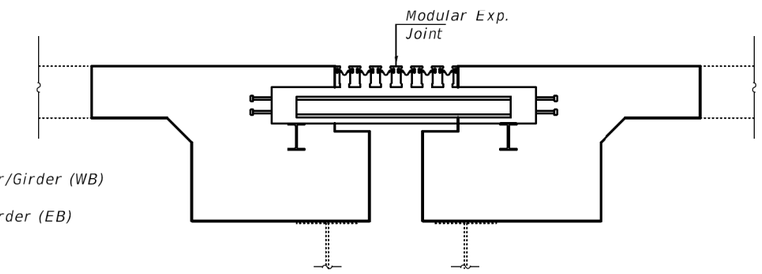


SECTION THRU PARAPETS



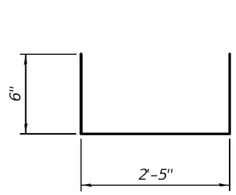
SECTION F-F

(Modular joint not shown for clarity)

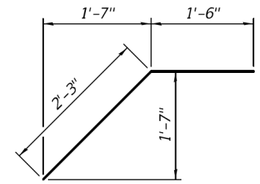


SECTION F-F

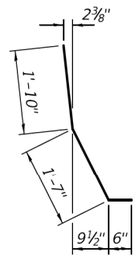
(Reinforcement not shown for clarity)



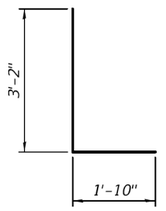
BAR s1(E)



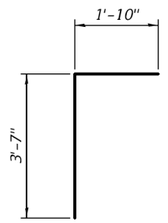
BAR d3(E)



BAR d(E)



BAR d1(E)



BAR d4(E)

BILL OF MATERIAL - PIER 5

Bar	No.	Size	Length	Shape
a1(E)	64	#6	22'-10"	
a2(E)	64	#6	4'-0"	
a3(E)	96	#6	6'-8"	
a4(E)	24	#6	5'-4"	
a7(E)	24	#6	4'-7"	
a10(E)	12	#6	7'-2"	
a11(E)	12	#6	7'-4"	
d(E)	48	#5	3'-11"	
d1(E)	48	#5	5'-0"	
d3(E)	176	#5	3'-9"	
d4(E)	88	#5	5'-5"	
s1(E)	320	#5	3'-5"	
Concrete Removal			Cu. Yd.	49.9
Concrete Superstructure			Cu. Yd.	50.2
Protective Coat			Sq. Yd.	83
Modular Expansion Joint, 18"			Foot	84
Reinforcement Bars, Epoxy Coated			Pound	6930

Placement of reinforcement within the joint block out needs to be coordinated with the joint manufacturer.

Bars indicated thus 4x2-#6 etc. indicates 4 line of bars with 2 lengths per line.

Note:
All reinforcement typ. each side of joint.
Place d4(E) bars between Modular jt.
support boxes

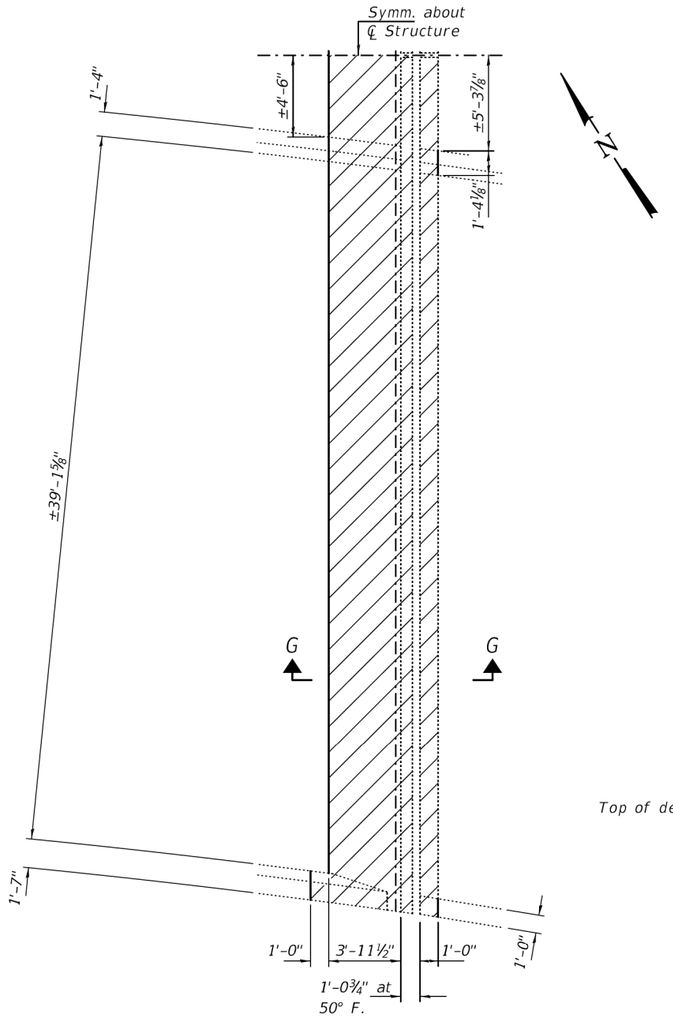
MINIMUM BAR LAP

#6 bar = 3'-7"

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

JOINT REPLACEMENT - PIER 5
SN 090-0114
SHEET NO. 6 OF 23 SHEETS

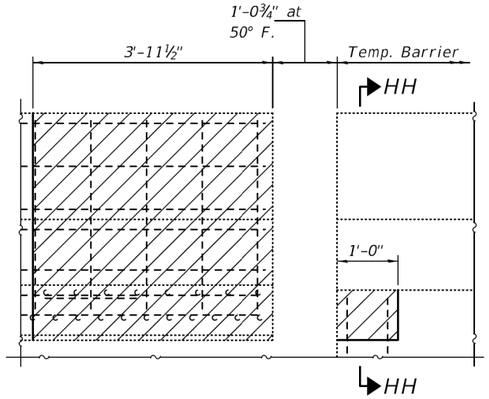
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	41
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	



CONCRETE REMOVAL DETAILS

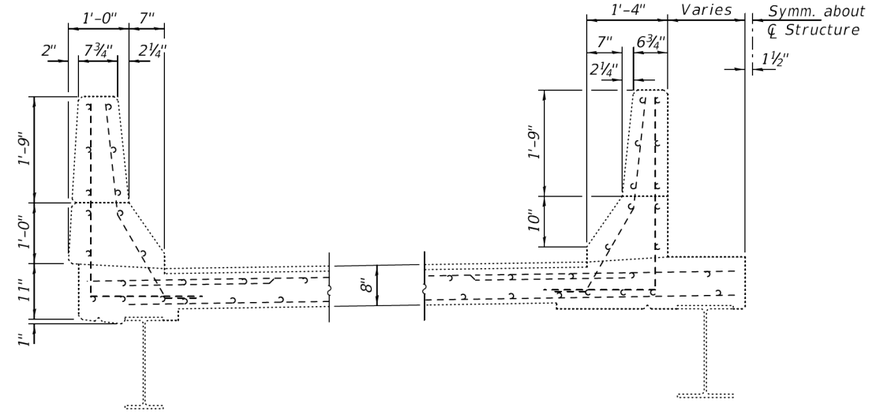
(East Abutment – E.B. shown, W.B. typ. by mirroring)

Note:
Hatched areas indicate Concrete Removal.

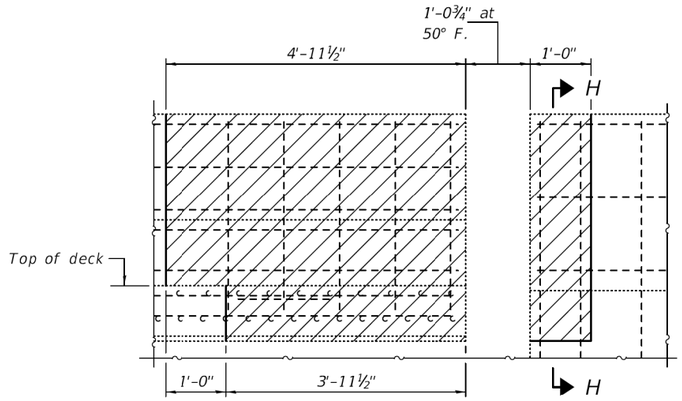


INSIDE PARAPET ELEVATION

(Looking North)

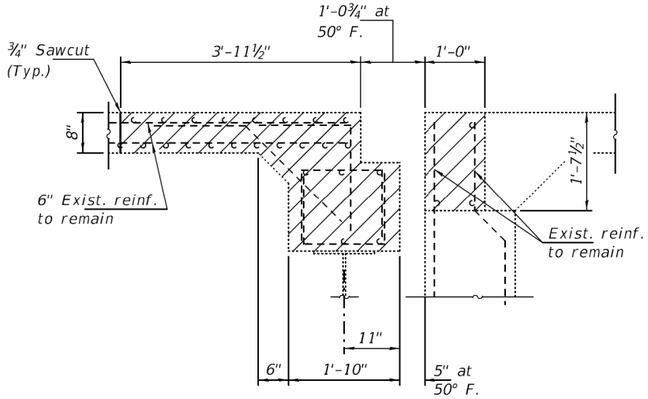


SECTION THRU PARAPETS

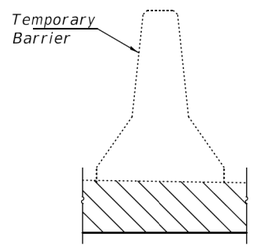


INSIDE PARAPET ELEVATION

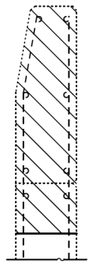
(Looking North)



SECTION G-G

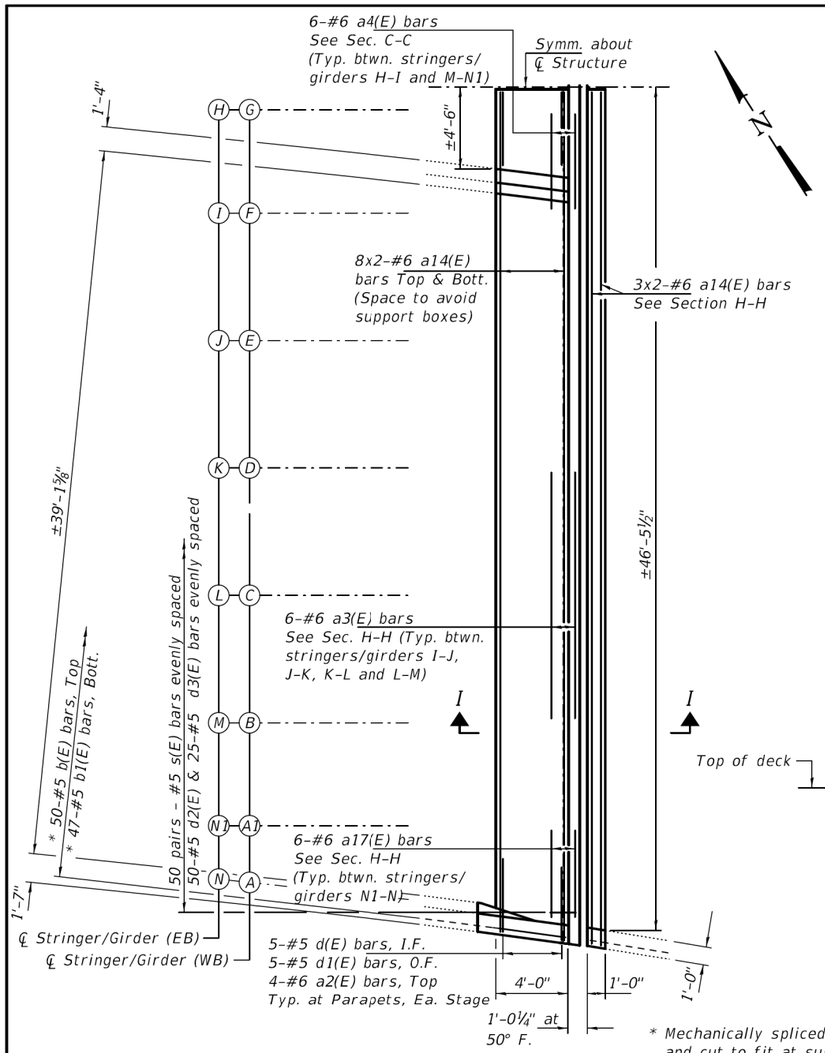


SECTION HH-HH



SECTION H-H

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REMOVAL - EAST ABUTMENT SN 090-0114	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES				693	(12B)BR,BDR,BJR	PEORIA	92	42
DRAWN - daburdell	PASSED	REVISED -		SHEET NO. 7 OF 23 SHEETS			CONTRACT NO. 68E79		
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -				ILLINOIS	FED. AID PROJECT		

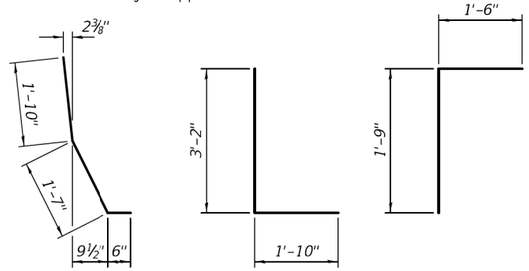


CONCRETE REPLACEMENT DETAILS

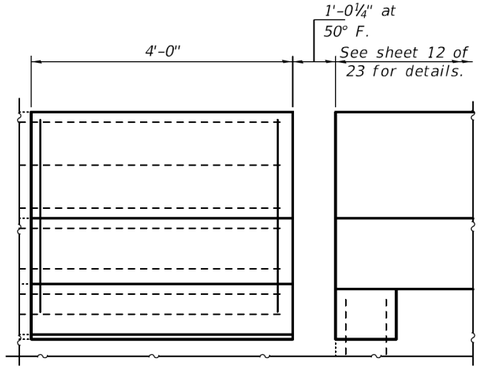
(East Abutment - E.B. shown, W.B. typ. by mirroring)

* Mechanically spliced to existing reinforcement and cut to fit at support boxes.

Note:
Place d2(E) bars between modular jt. support boxes.

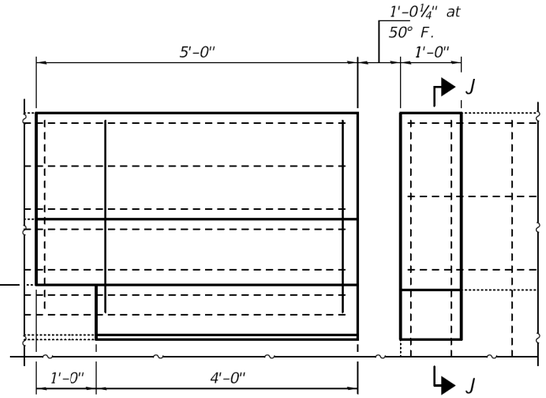


BAR d(E) BAR d1(E) BAR d2(E)



INSIDE PARAPET ELEVATION

(Looking North)

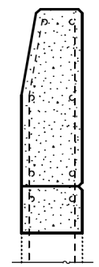


OUTSIDE PARAPET ELEVATION

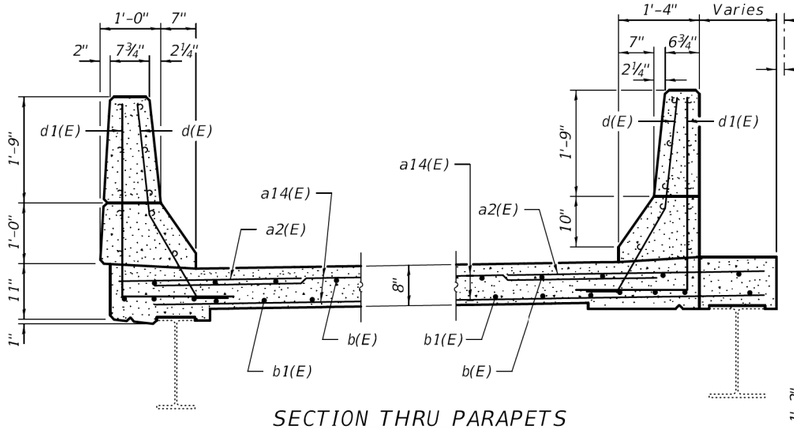
(Looking North)

MINIMUM BAR LAP

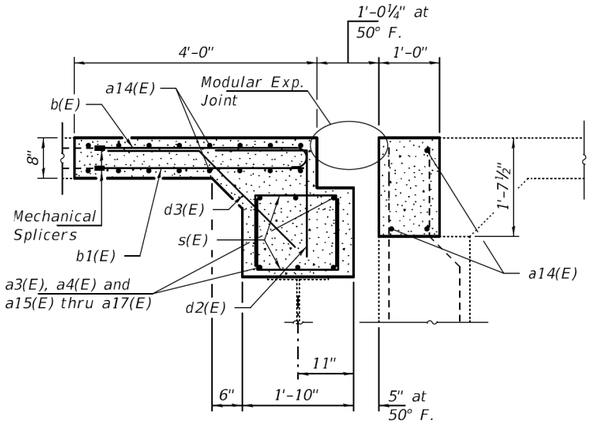
#6 bar = 3'-7"



SECTION J-J

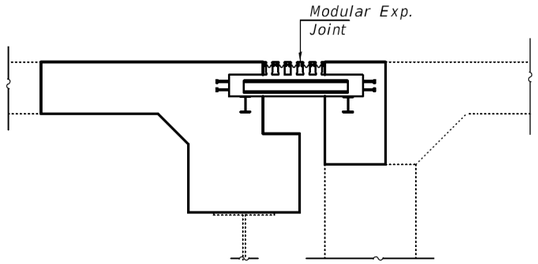


SECTION THRU PARAPETS



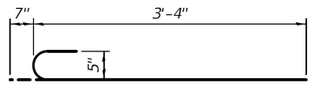
SECTION I-I

(Modular joint not shown for clarity)

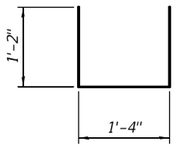


SECTION I-I

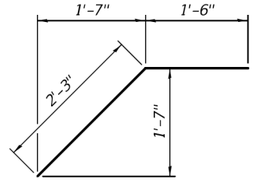
(Reinforcement not shown for clarity)



BAR b(E)



BAR s(E)



BAR d3(E)

BILL OF MATERIAL - E. ABUT.

Bar	No.	Size	Length	Shape
a2(E)	16	#6	4'-0"	
a3(E)	48	#6	6'-8"	
a4(E)	24	#6	5'-4"	
a14(E)	76	#6	25'-3"	
a17(E)	12	#6	4'-9"	
b(E)	100	#5	3'-11"	
b1(E)	94	#5	3'-4"	
d(E)	20	#5	3'-11"	
d1(E)	20	#5	5'-0"	
d2(E)	50	#5	3'-3"	
d3(E)	100	#5	3'-9"	
s(E)	200	#5	3'-8"	
Concrete Removal		Cu. Yd.	28.2	
Concrete Superstructure		Cu. Yd.	28.3	
Mechanical Splicers		Each	194	
Protective Coat		Sq. Yd.	52	
Modular Expansion Joint, 9"		Foot	93	
Reinforcement Bars, Epoxy Coated		Pound	5980	

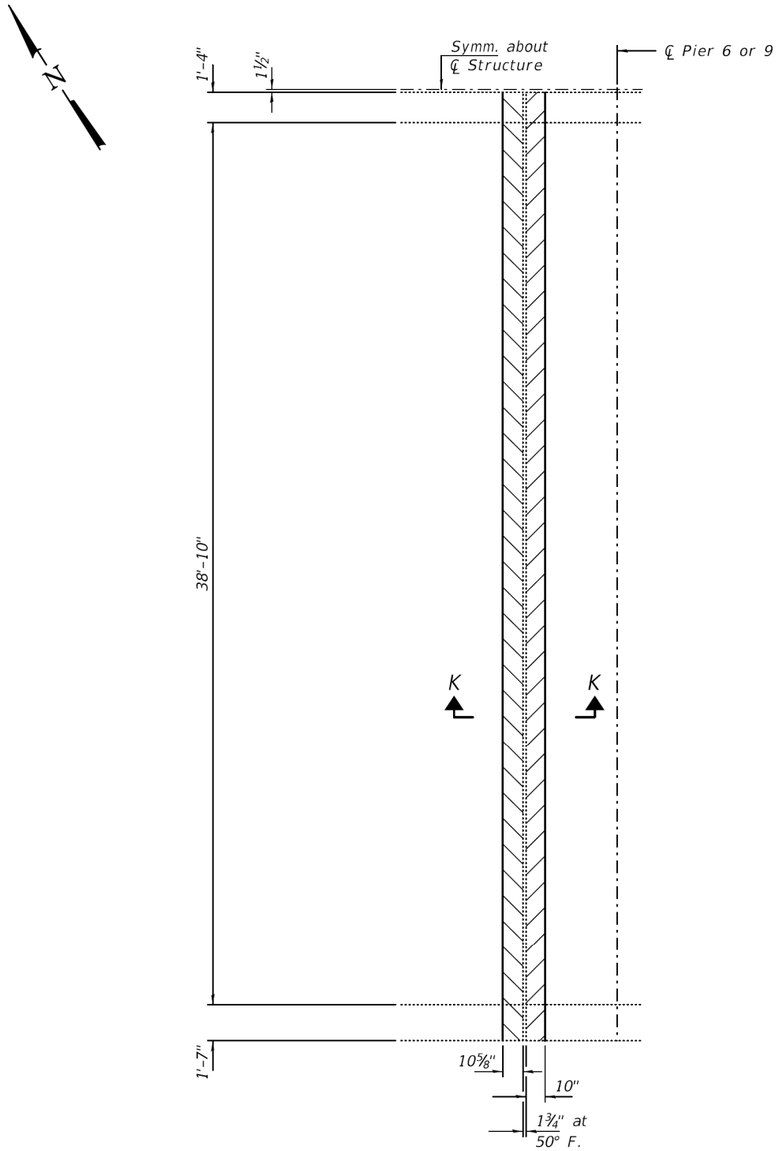
Placement of reinforcement within the joint block out needs to be coordinated with the joint manufacturer.

Bars indicated thus 8x2-#6 etc. indicates 8 line of bars with 2 lengths per line.

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

JOINT REPLACEMENT - EAST ABUTMENT
SN 090-0114
SHEET NO. 8 OF 23 SHEETS

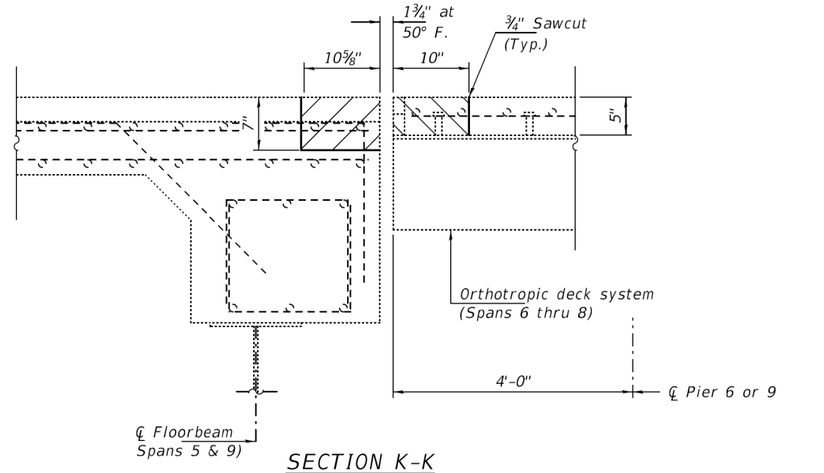
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	43
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			



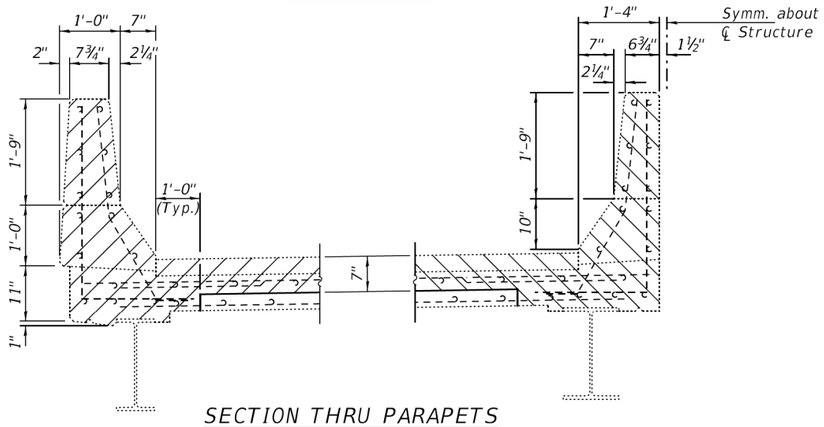
CONCRETE REMOVAL DETAILS

(Pier 6 – E.B. shown, W.B. typ. by mirroring.)
(Pier 9 typ. by rotation.)

Note:
Hatched areas indicate
Concrete Removal.

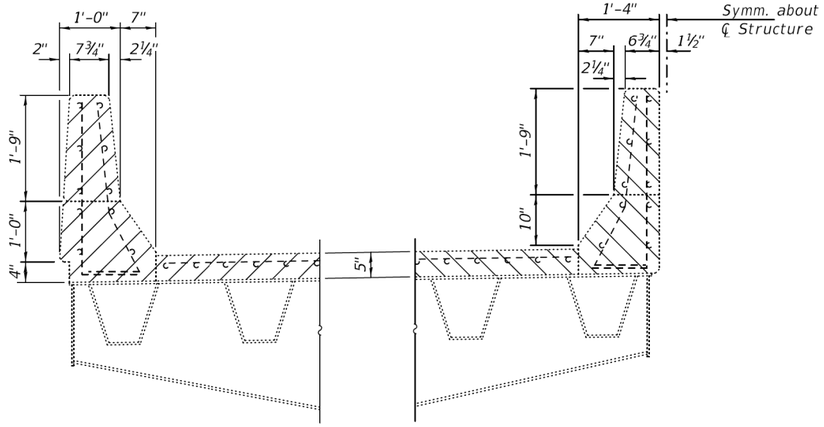


SECTION K-K



SECTION THRU PARAPETS

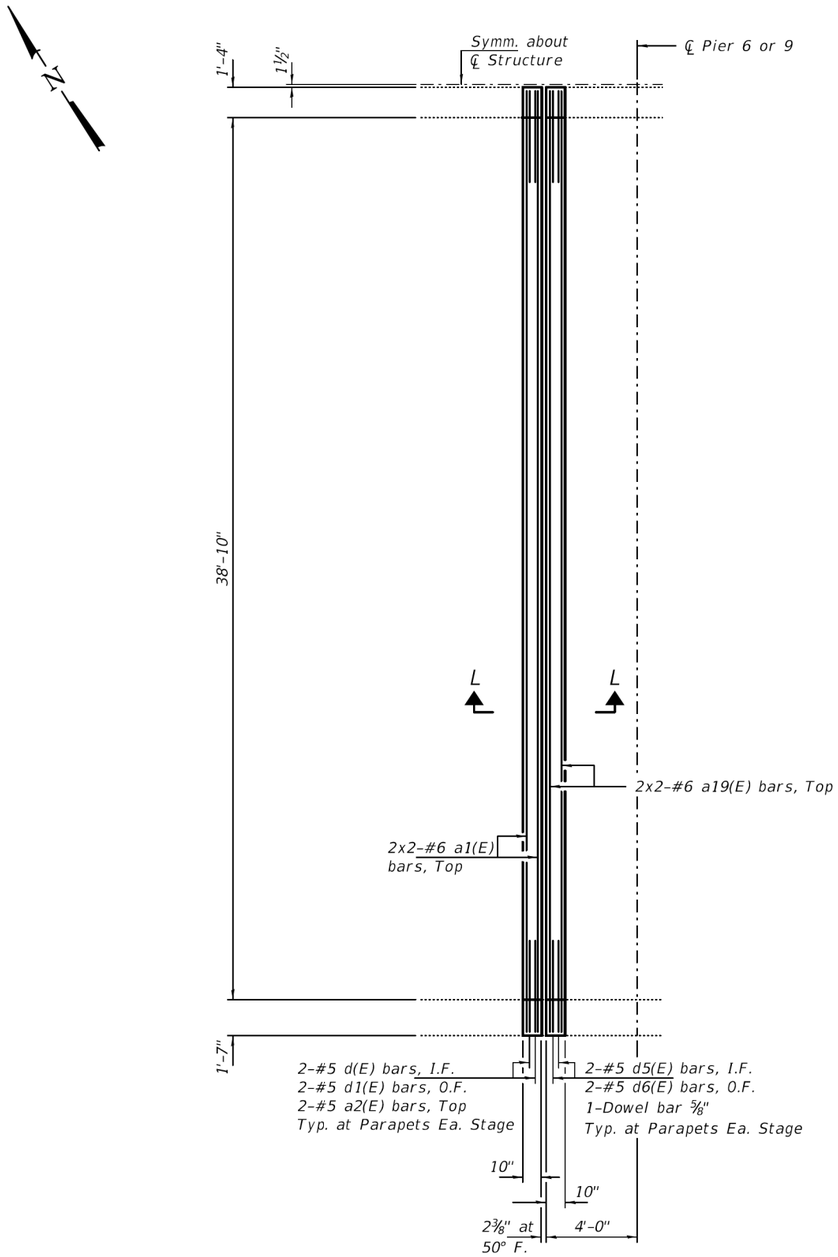
(Spans 5 & 9)



SECTION THRU PARAPETS

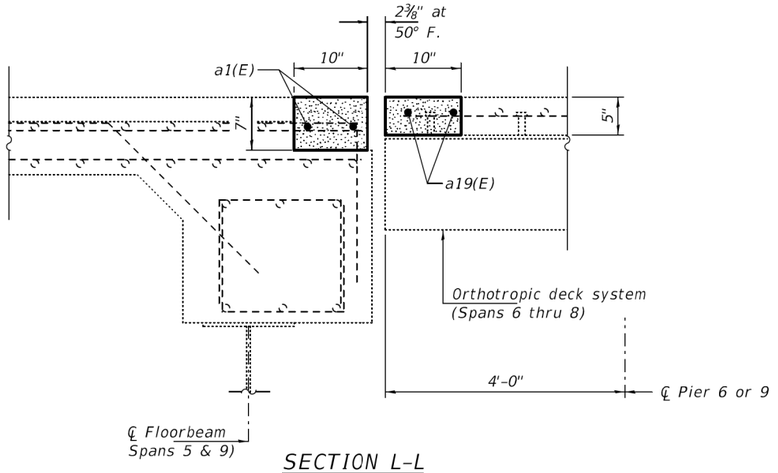
(Spans 6 & 8)

DESIGNED - AJR	EXAMINED		DATE - JUNE 23, 2020	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**JOINT REMOVAL - PIERS 6 & 9 SN 090-0114**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JSB		ENGINEER OF STRUCTURAL SERVICES				693	(12B)BR,BDR,BJR	PEORIA	92	44
DRAWN - *daburdell*	PASSED		REVISED -					CONTRACT NO. 68E79		
CHECKED - AJR JSB		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 9 OF 23 SHEETS			ILLINOIS	FED. AID PROJECT	

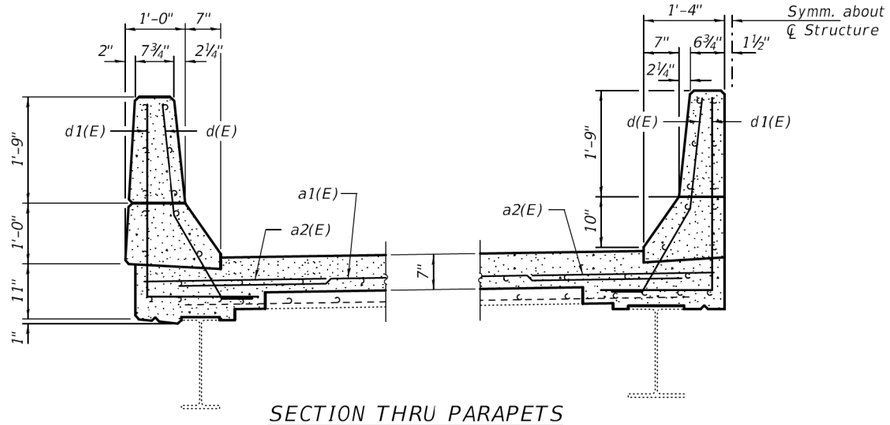


CONCRETE REPLACEMENT DETAILS

(Pier 6 - E.B. shown, W.B. typ. by mirroring.)
(Pier 9 typ. by rotation.)

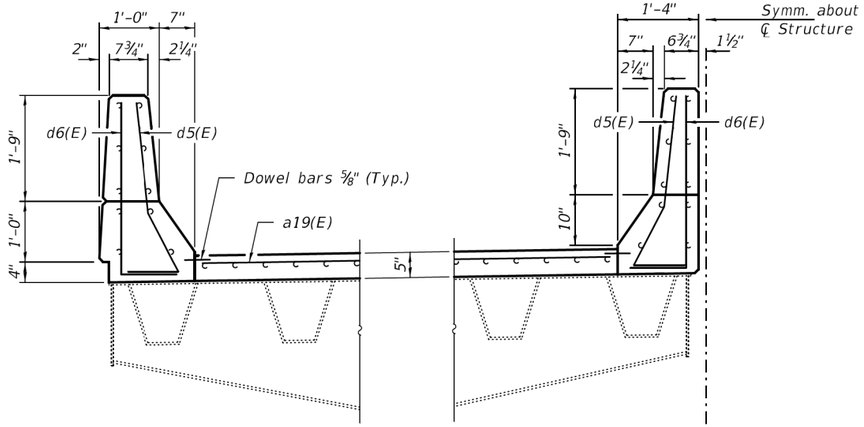


SECTION L-L



SECTION THRU PARAPETS

(Spans 5 & 9)



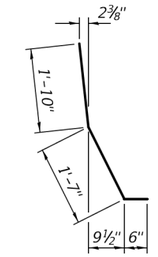
SECTION THRU PARAPETS

(Spans 6 & 8)

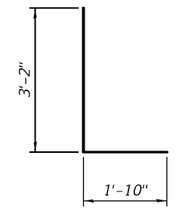
Notes:
Remove approach span deck concrete to a depth that permits complete removal of existing joint angle with studs.
If strip seal studs interfere with orthotropic deck studs remove and replace deck studs between strip seal studs.

MINIMUM BAR LAP

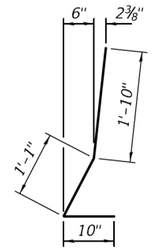
#6 bar = 3'-7"



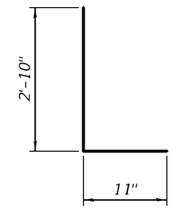
BAR d(E)



BAR d1(E)



BAR d5(E)



BAR d6(E)

BILL OF MATERIAL - PIERS 6 & 9

Bar	No.	Size	Length	Shape
a1(E)	16	#6	22'-6"	
a2(E)	16	#6	4'-0"	
a19(E)	16	#6	21'-1"	
d(E)	16	#5	3'-11"	
d1(E)	16	#5	5'-0"	L
d5(E)	16	#5	3'-9"	
d6(E)	16	#5	3'-9"	L
Concrete Removal			Cu. Yd.	6.8
Concrete Superstructure			Cu. Yd.	6.4
Protective Coat			Sq. Yd.	18
Reinforcement Bars, Epoxy Coated			Pound	1420
Dowel Bars ⅝"			Each	8

Bars indicated thus 2x2-#6 etc. indicates 2 line of bars with 2 lengths per line.

DESIGNED - AJR
CHECKED - JSB
DRAWN - daburdell
CHECKED - AJR JSB

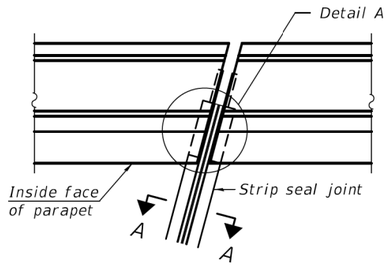
EXAMINED
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

DATE - JUNE 23, 2020
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

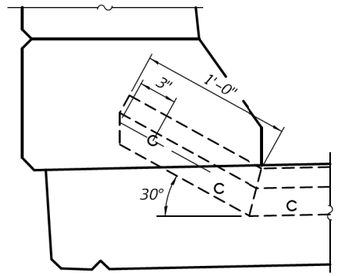
JOINT REPLACEMENT - PIERS 6 & 9
SN 090-0114
SHEET NO. 10 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	45
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	

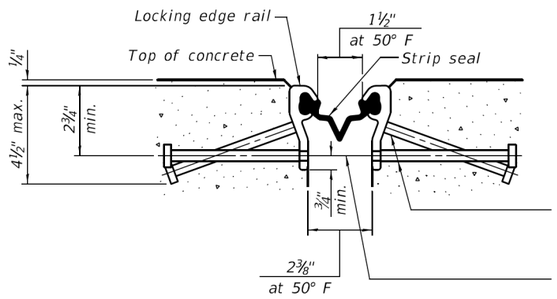


FOR SKEWS ≤ 30°

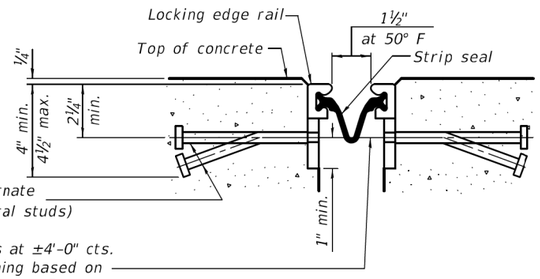
PLAN AT PARAPET



DETAIL A



SHOWING ROLLED RAIL JOINT



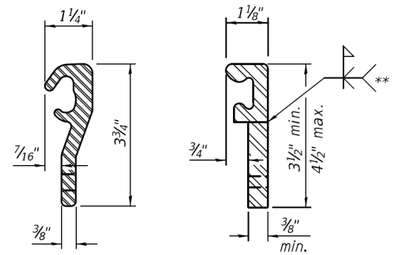
SHOWING WELDED RAIL JOINT

* ⅝" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

⅜" ϕ threaded rods in 7/16" ϕ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

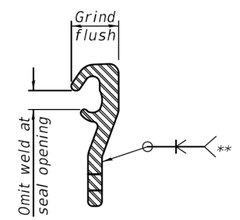


ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". 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 4½" 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 3/16" 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.

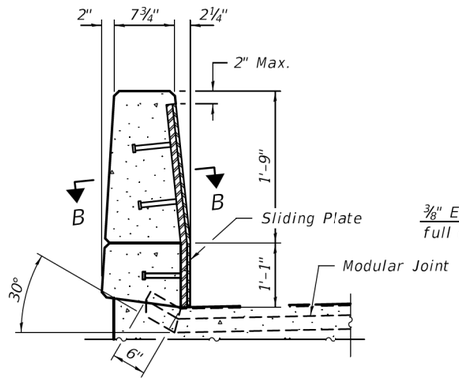
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to 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

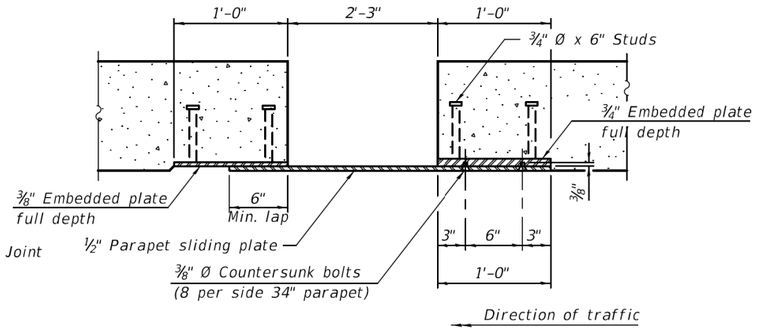
Item	Unit	Total
Preformed Joint Strip Seal	Foot	164

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PREFORMED JOINT STRIP SEAL - PIERS 6 & 9 SN 090-0114
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES			
DRAWN - daburdell	PASSED	REVISED -		SHEET NO. 11 OF 23 SHEETS
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		

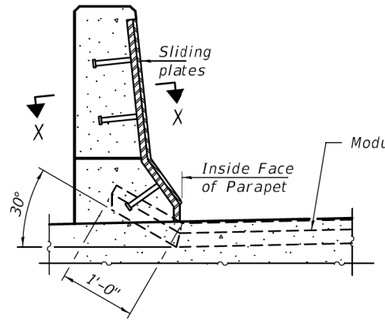
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	46
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



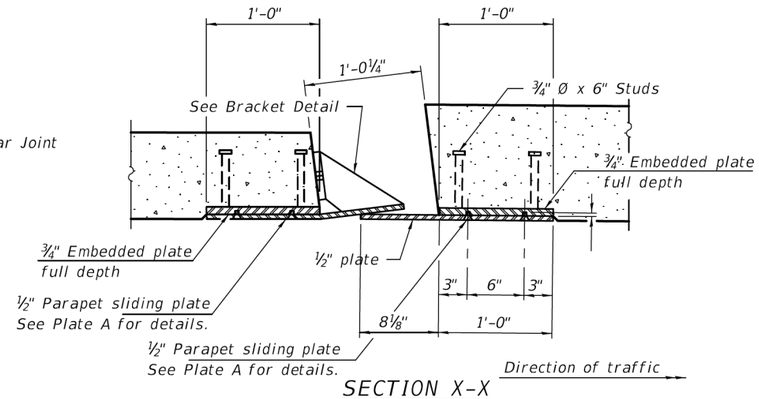
ELEVATION AT PARAPET
(West Abutment)



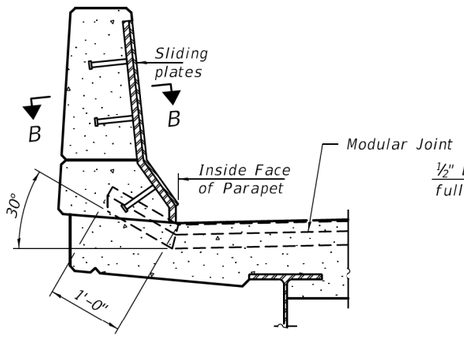
SECTION B-B
(West Abutment)



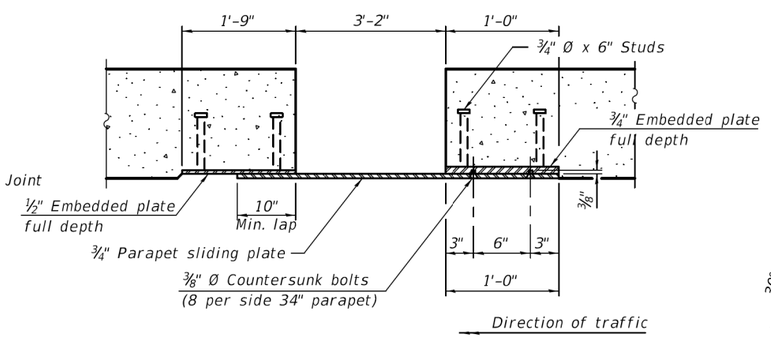
ELEVATION AT MEDIAN
(East Abutment)



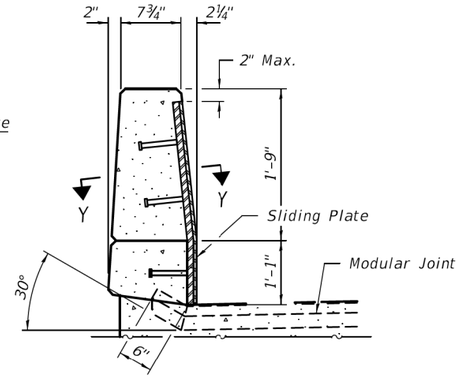
SECTION X-X
(East Abutment)
(E.B. Parapet shown, W.B. similar by mirroring)



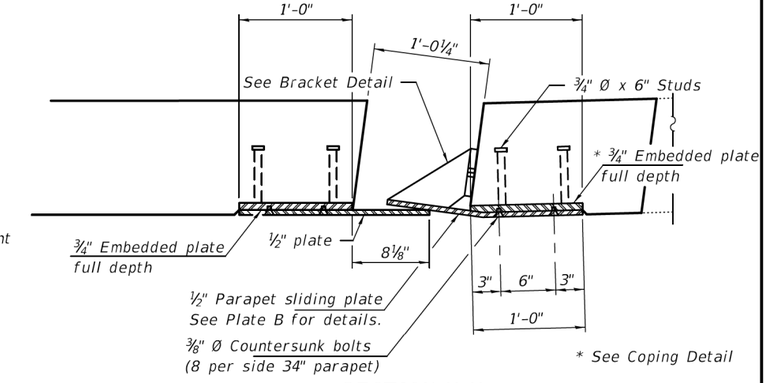
ELEVATION AT MEDIAN
(West Abutment & Pier 5)



SECTION B-B
(Typ. all locations at Pier 5)



ELEVATION AT PARAPET
(East Abutment)



SECTION Y-Y
(East Abutment)
(W.B. Parapet shown, E.B. similar by mirroring)

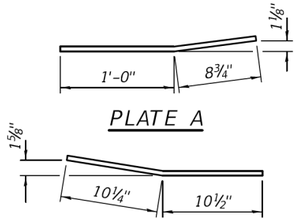
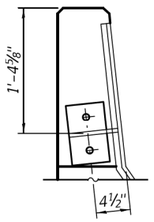
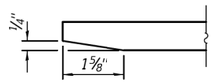


PLATE A

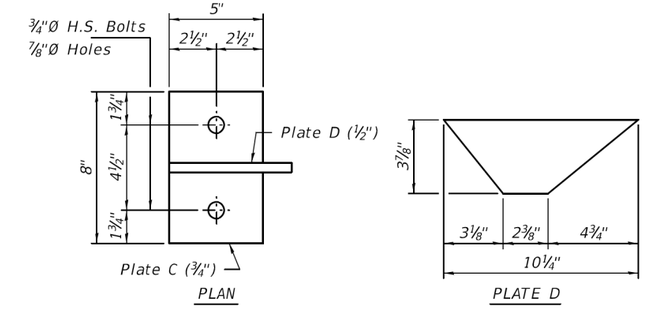
PLATE B



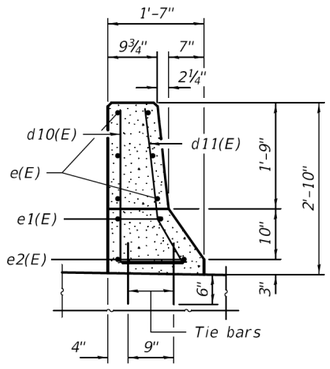
BRACKET PLACEMENT



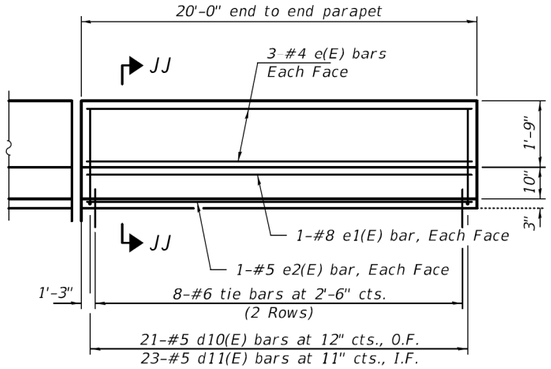
COPING DETAIL



BRACKET DETAILS

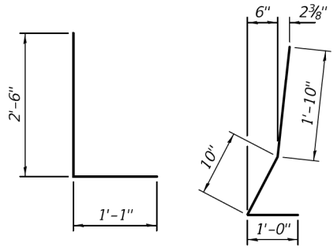


SECTION JJ-JJ



INSIDE ELEVATION OF APPROACH MEDIAN BARRIER
(East Abutment)

Notes:
The cost of the tie bars shall be included with Concrete Superstructure.
Removal of Temporary Concrete Barrier shall be included with Concrete Superstructure.



BAR d10(E)

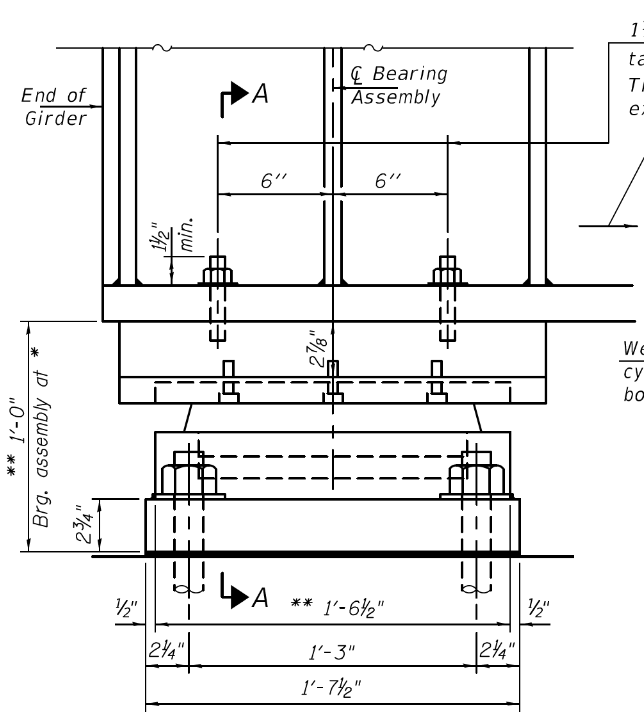
BAR d11(E)

BILL OF MATERIAL - 2 PARAPETS

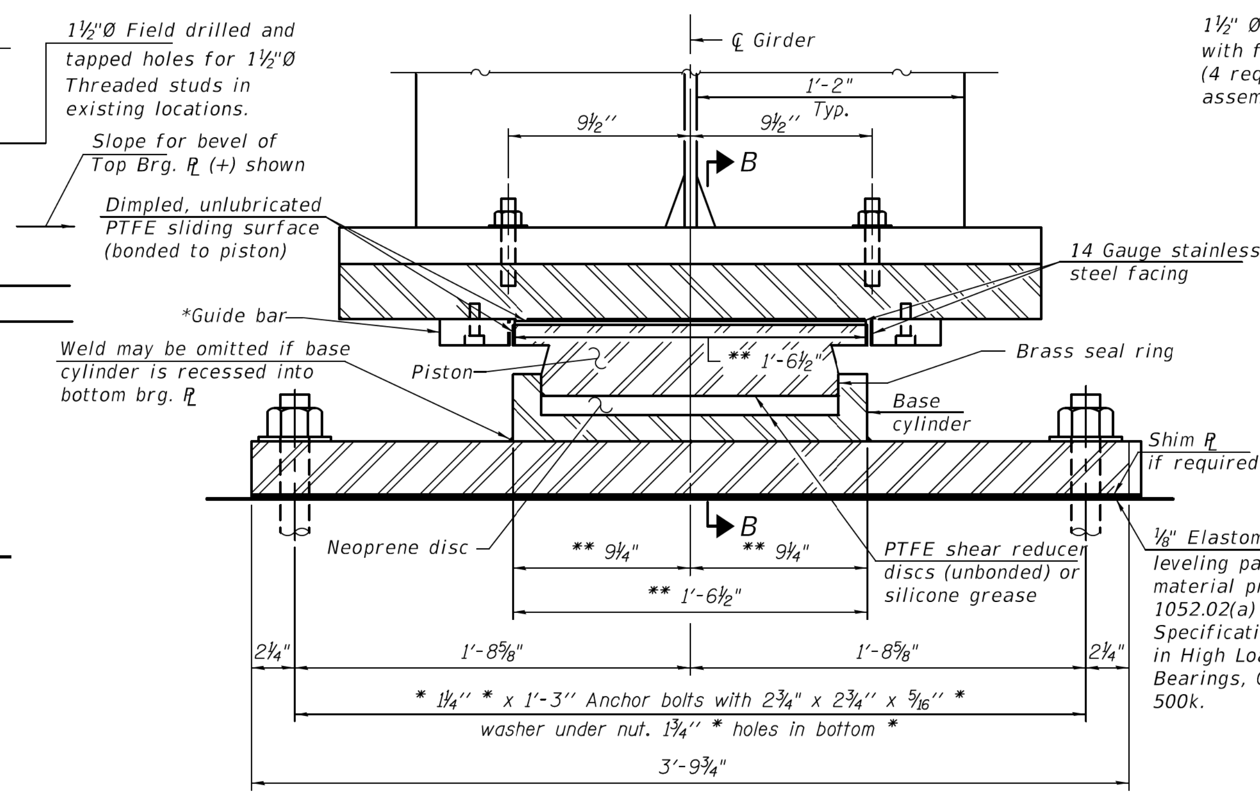
Bar	No.	Size	Length	Shape
d10(E)	16	#5	3'-7"	L
d11(E)	16	#5	4'-8"	⅃
e(E)	12	#4	19'-8"	——
e1(E)	4	#8	19'-8"	——
e2(E)	4	#5	19'-8"	——
Concrete Superstructure			Cu. Yd.	4.5
Reinforcement Bars, Epoxy Coated			Pound	590
Protective Coat			Sq. Yd.	17

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - *daburdell*	PASSED	REVISED -	SLIDING PLATE DETAILS AT MODULAR JOINTS SN 090-0114
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	SHEET NO. 12 OF 23 SHEETS

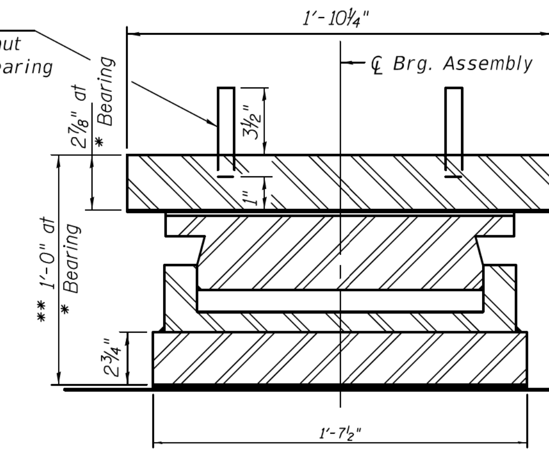
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	47
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	



ELEVATION



SECTION A-A



SECTION B-B

(Guide bar and girder omitted for clarity)

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270, Grade 50.

Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Bearing dimensions and details shown are for a pot type HLMR bearing. Disc type HLMR bearing dimensions and details will vary.

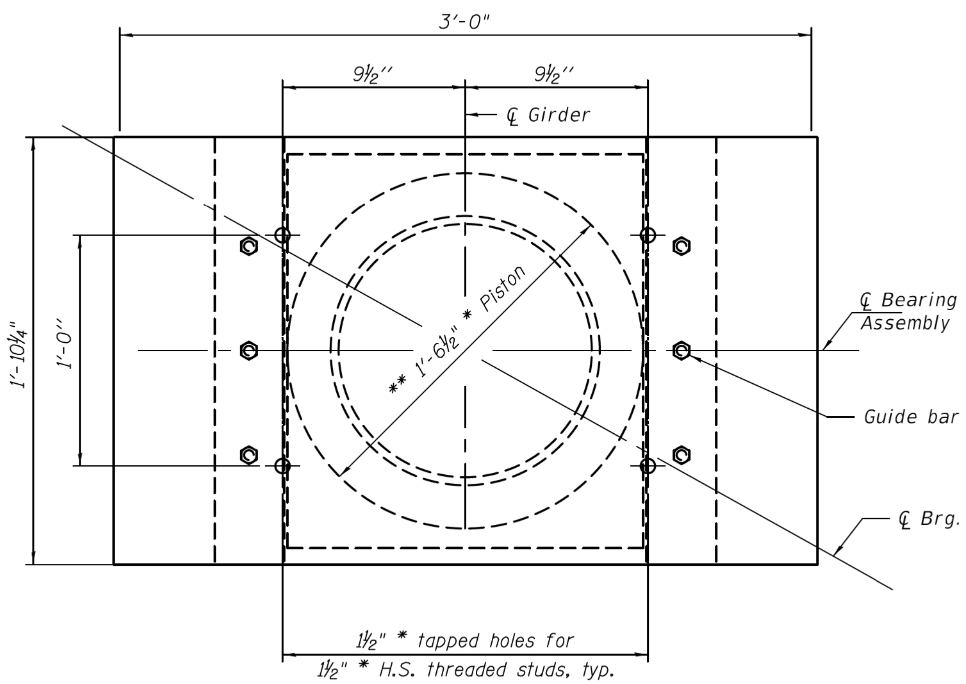
Bearing Assembly height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible verifying bearing heights and adjusting concrete pedestal elevations, if required.

Modifications to the Bearing plates at abutments or piers shall consider the location of the backwall or concrete pedestal dimensions and required expansion length if exceeding the end of the girder.

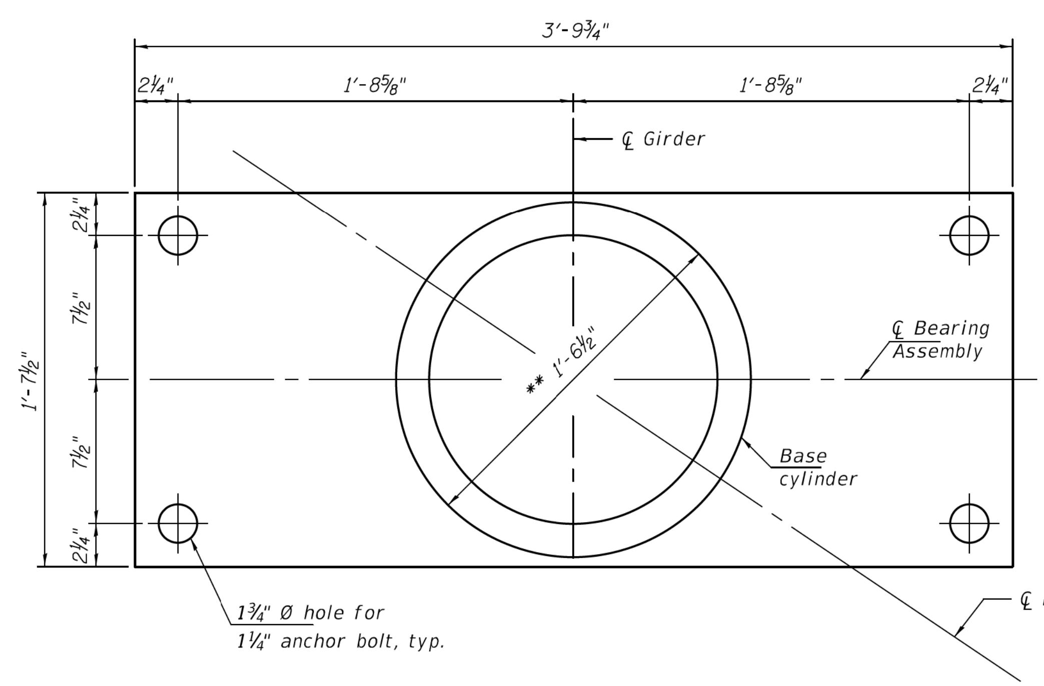
** Dimensions may vary depending on Manufacturer's design.

*** Rotation allowances for fabrication tolerances (0.005 rad) and installation uncertanities (0.005 rad) excluded.

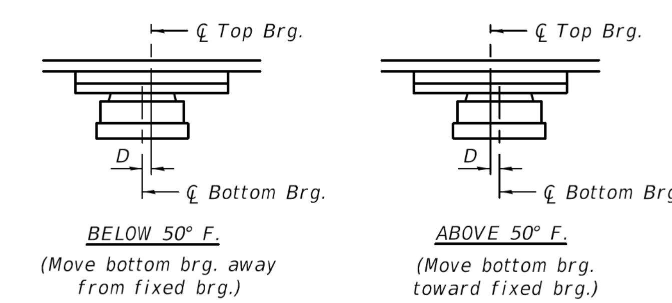
* As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece. If bolted connection is used, maintain a minimum clearance of 3" from the centerline of the threaded stud to the bolts in the guide bar.



TOP BEARING ℄ AND PISTON PLAN



BOTTOM BEARING ℄ AND BASE CYLINDER PLAN



SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

DESIGN DATA

Data	W. Abut.
Service Vertical Design Load (kips)	632
Horizontal Design Load (kips), Hu	127
Design Rotation (rad), θu ***	0.0074
Total Required Movement (in.)	4⅞
Slope for Bevel of Top Brg. ℄ (%)	+4.69

BILL OF MATERIAL

Item	Unit	Total
High Load Multi-Rotational Bearings, Guided Expansion, 650k	Each	4
Anchor Bolts, 1¼"	Each	16

DESIGNED - AJR	EXAMINED — ENGINEER OF STRUCTURAL SERVICES	DATE - JUNE 23, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - JSB		REVISED -	
DRAWN - Venkat Reddy	PASSED — ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	
CHECKED - AJR JSB			

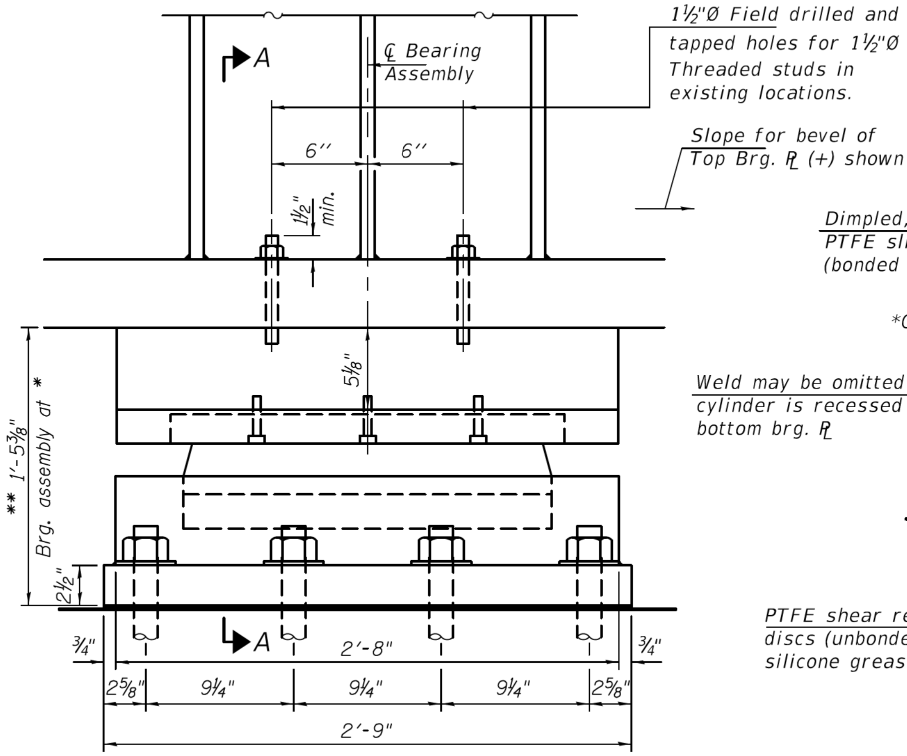
WEST ABUTMENT BEARING DETAILS
SN 090-0114

SHEET NO. 13 OF 23 SHEETS

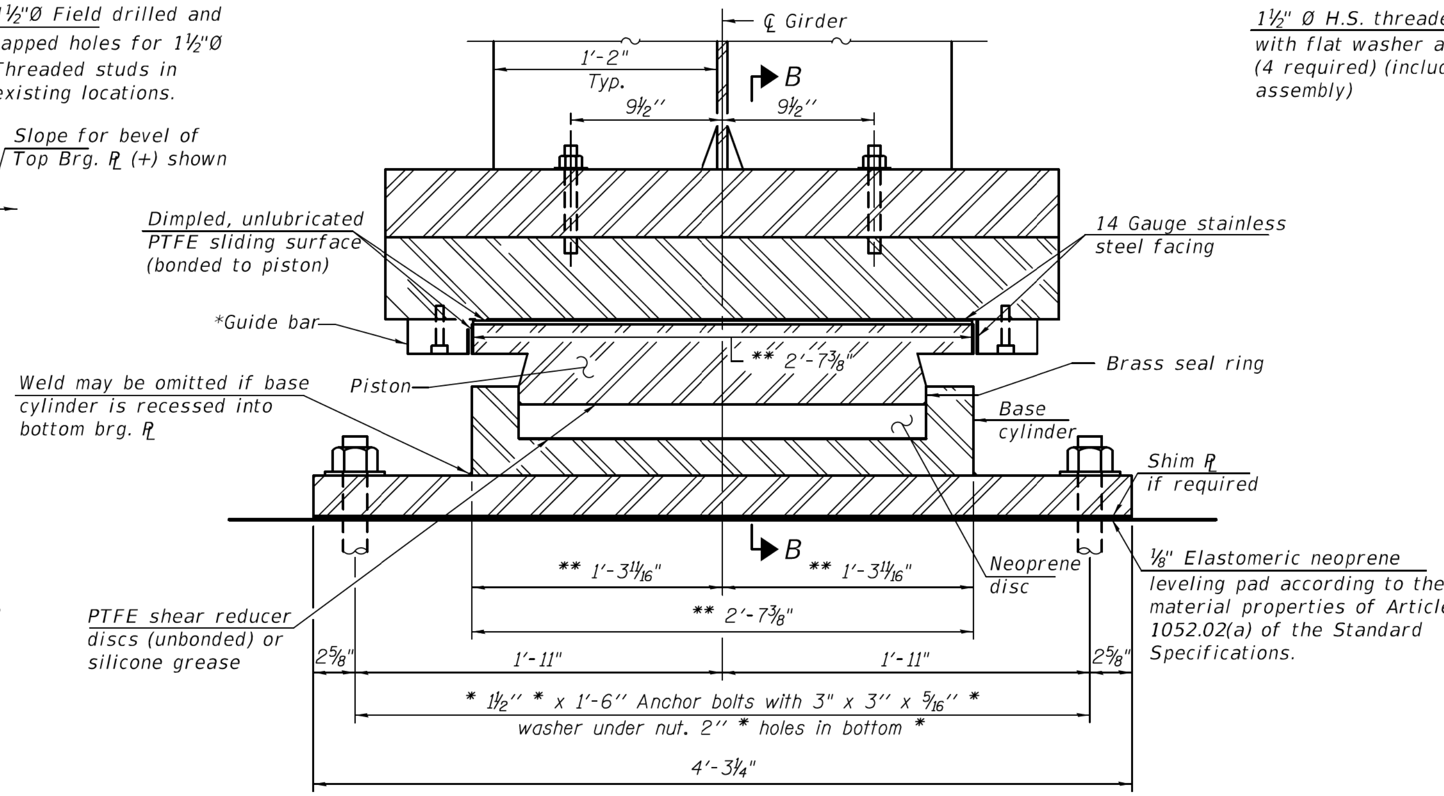
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	48

CONTRACT NO. 68E79

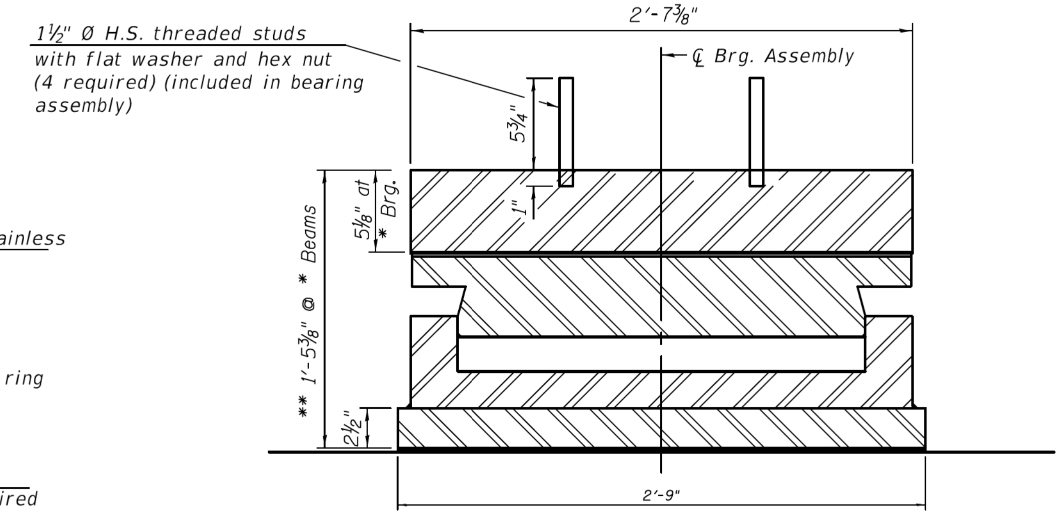
ILLINOIS FED. AID PROJECT



ELEVATION



SECTION A–A



SECTION B–B

(Guide bar and girder omitted for clarity)

** Dimensions may vary depending on Manufacturer's design.

*** Rotation allowances for fabrication tolerances (0.005 rad) and installation uncertanities (0.005 rad) excluded.

* As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece. If bolted connection is used, maintain a minimum clearance of 3" from the centerline of the threaded stud to the bolts in the guide bar.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270, Grade 50.

Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

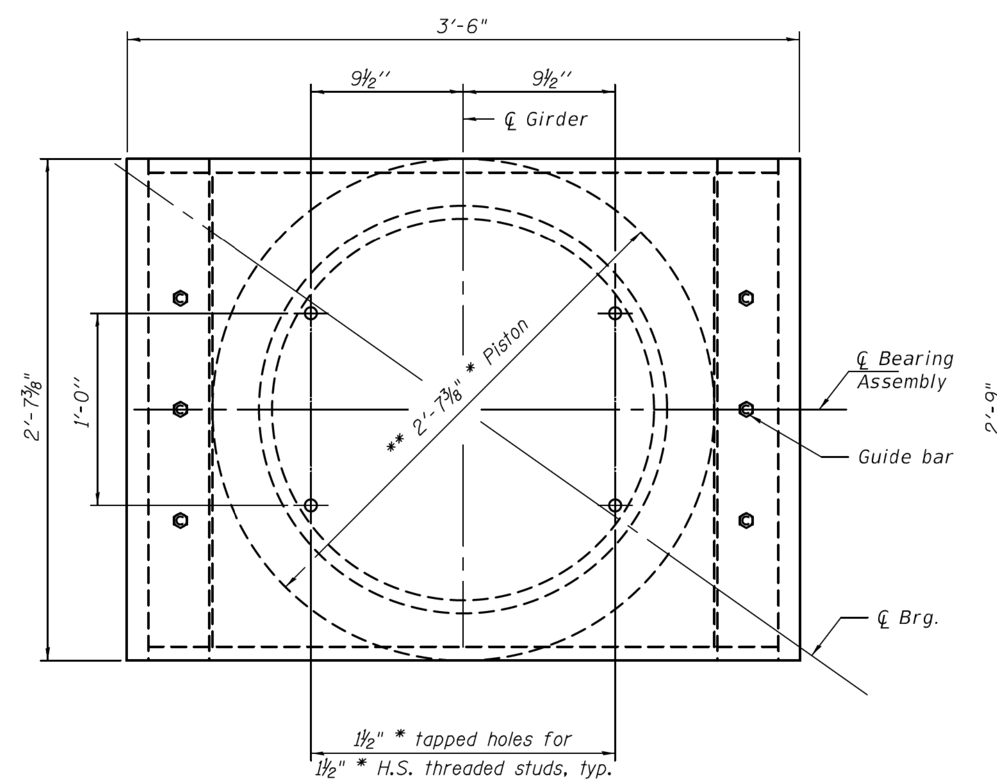
Bearing dimensions and details shown are for a pot type HLMR bearing. Disc type HLMR bearing dimensions and details will vary.

Bearing Assembly height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible verifying bearing heights and adjusting concrete pedestal elevations, if required.

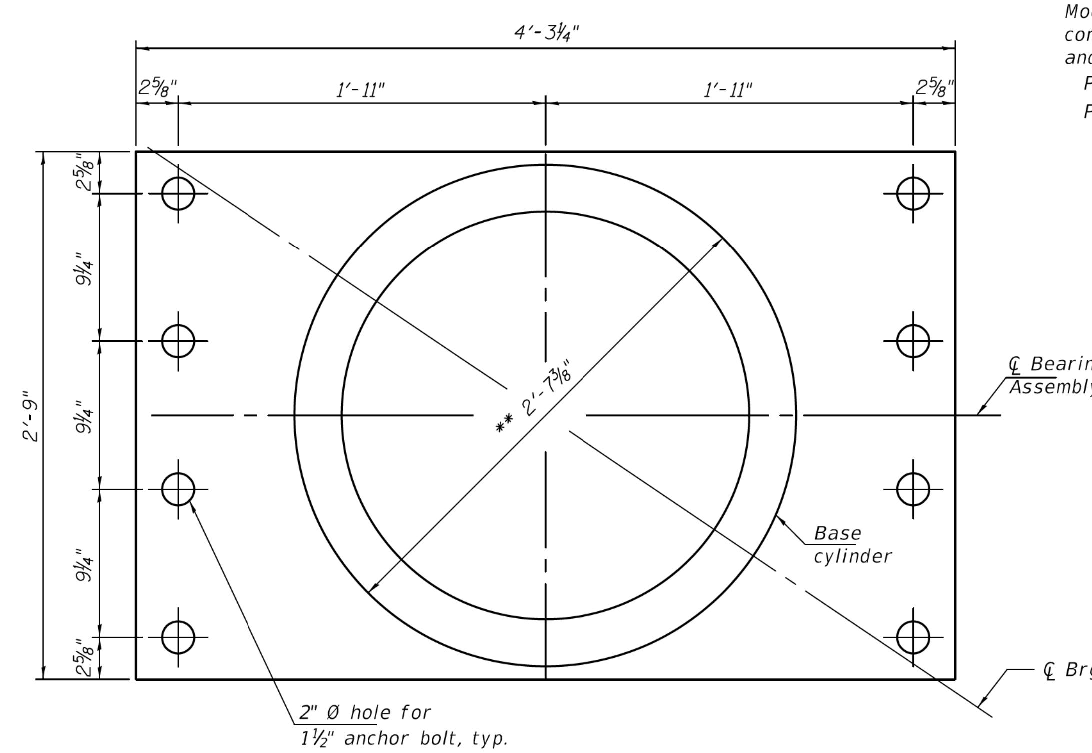
Modifications to the Bearing plates at abutments or piers shall consider the location of the backwall or concrete pedestal dimensions and required expansion length if exceeding the end of the girder.

Provide a 2⅛" x 4'-3¼" x 2'-9" fill plate at Girders 5 and 8.

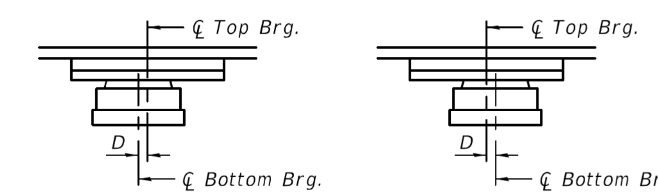
Provide a 1½" x 4'-3¼" x 2'-9" fill plate at Girders 6 and 7.



TOP BEARING ℄ AND PISTON PLAN



BOTTOM BEARING ℄ AND BASE CYLINDER PLAN



BELOW 50° F.
(Move bottom brg. away from fixed brg.)

ABOVE 50° F.
(Move bottom brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

DESIGN DATA

Data	Pier 2
Service Vertical Design Load (kips)	1858
Horizontal Design Load (kips), Hu	372
Design Rotation (rad), θu ***	0.0025
Total Required Movement (in.)	2.50
Slope for Bevel of Top Brg. ℄ (%)	+4.69

BILL OF MATERIAL

Item	Unit	Total
High Load Multi-Rotational Bearings, Guided Expansion, 1900k	Each	4
Anchor Bolts, 1½"	Each	32

DESIGNED - AJR	EXAMINED (signature) ENGINEER OF STRUCTURAL SERVICES	DATE - JUNE 23, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - JSB		REVISED -	
DRAWN - Venkat Reddy	PASSED (signature) ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	
CHECKED - AJR JSB			

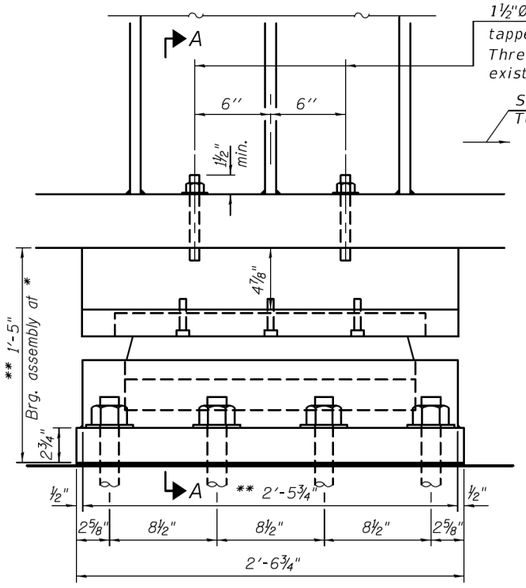
PIER 2 BEARING DETAILS
SN 090-0114

SHEET NO. 14 OF 23 SHEETS

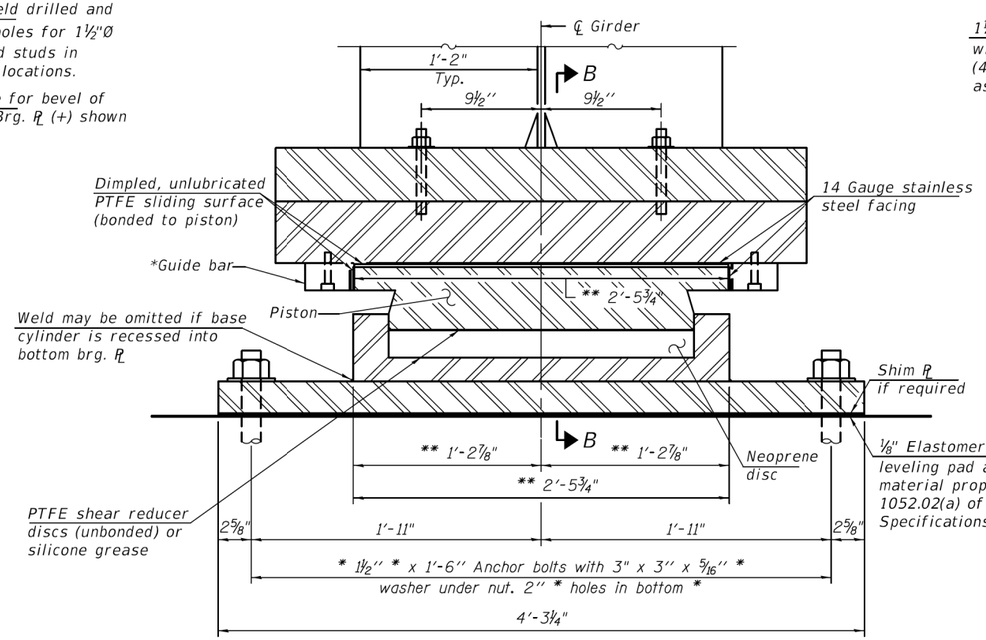
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	49

CONTRACT NO. 68E79

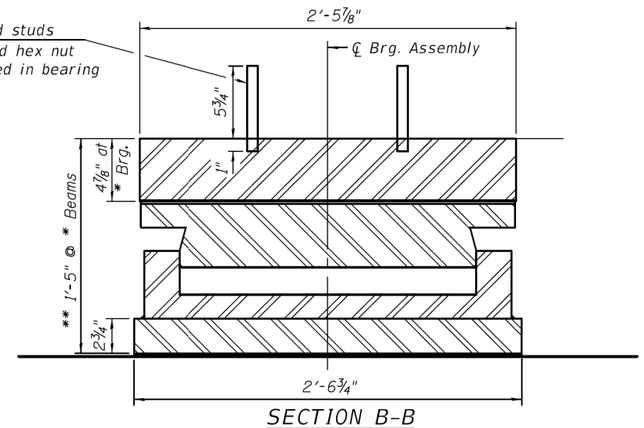
ILLINOIS | FED. AID PROJECT



ELEVATION



SECTION A-A



SECTION B-B

(Guide bar and girder omitted for clarity)

** Dimensions may vary depending on Manufacturer's design.

*** Rotation allowances for fabrication tolerances (0.005 rad) and installation uncertainties (0.005 rad) excluded.

* As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece. If bolted connection is used, maintain a minimum clearance of 3" from the centerline of the threaded stud to the bolts in the guide bar.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270, Grade 50.

Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

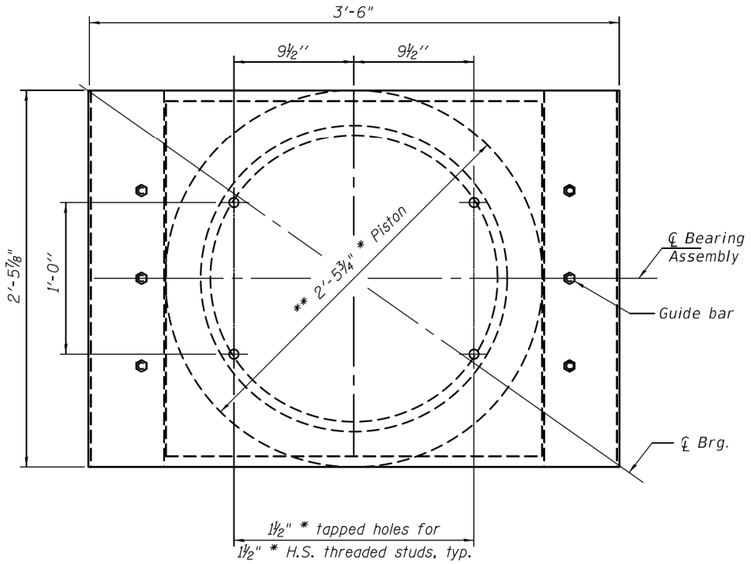
Bearing dimensions and details shown are for a pot type HLMR bearing. Disc type HLMR bearing dimensions and details will vary.

Bearing Assembly height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible verifying bearing heights and adjusting concrete pedestal elevations, if required.

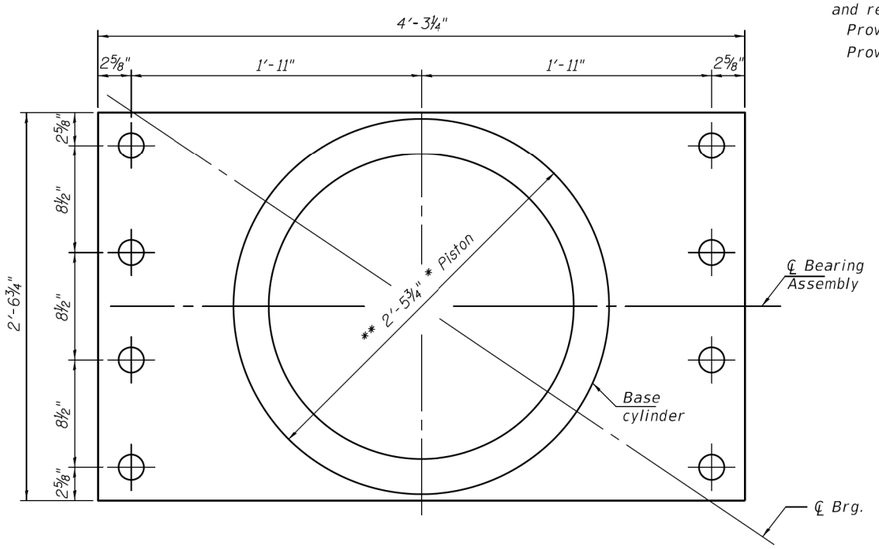
Modifications to the Bearing plates at abutments or piers shall consider the location of the backwall or concrete pedestal dimensions and required expansion length if exceeding the end of the girder.

Provide a 2 13/16" x 4'-3¼" x 2'-6¾" fill plate at Girders 5 and 8.

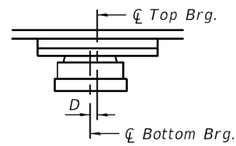
Provide a 2 3/16" x 4'-3¼" x 2'-6¾" fill plate at Girders 6 and 7.



TOP BEARING ℄ AND PISTON PLAN

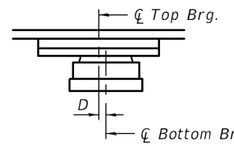


BOTTOM BEARING ℄ AND BASE CYLINDER PLAN



BELOW 50° F.

(Move bottom brg. away from fixed brg.)



ABOVE 50° F.

(Move bottom brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

DESIGN DATA

Data	Pier 4
Service Vertical Design Load (kips)	1679
Horizontal Design Load (kips), Hu	336
Design Rotation (rad), θu ***	0.0026
Total Required Movement (in.)	2.50
Slope for Bevel of Top Brg. ℄ (%)	+4.69

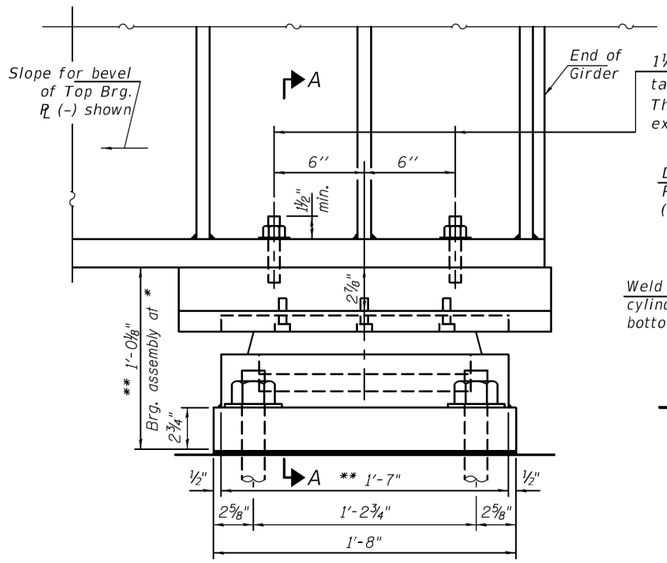
BILL OF MATERIAL

Item	Unit	Total
High Load Multi-Rotational Bearings, Guided Expansion, 1700k	Each	4
Anchor Bolts, 1½"	Each	32

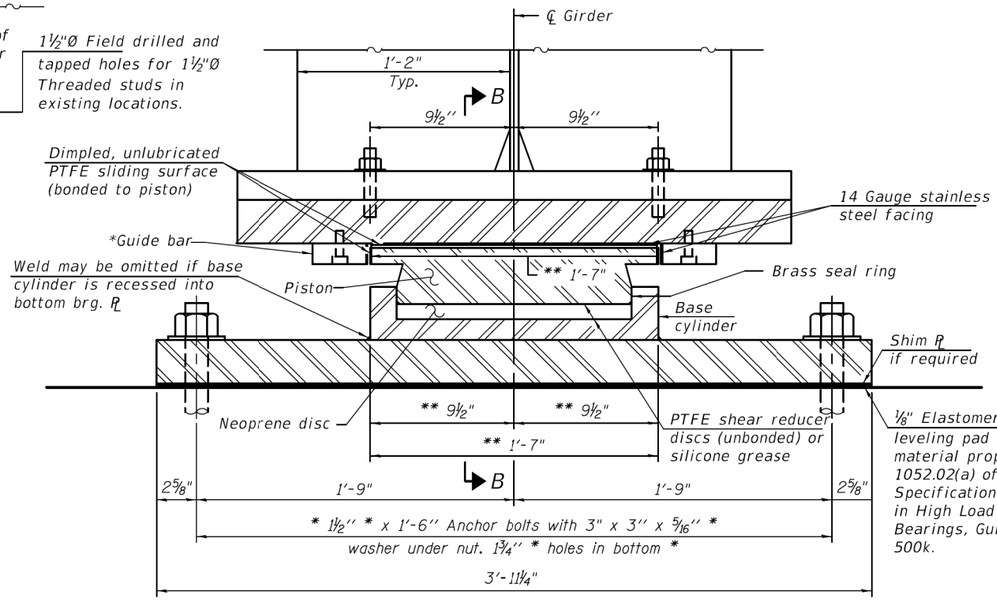
DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - JSB			
DRAWN - Venkat Reddy	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF STRUCTURAL SERVICES / ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

PIER 4 BEARING DETAILS
SN 090-0114
SHEET NO. 15 OF 23 SHEETS

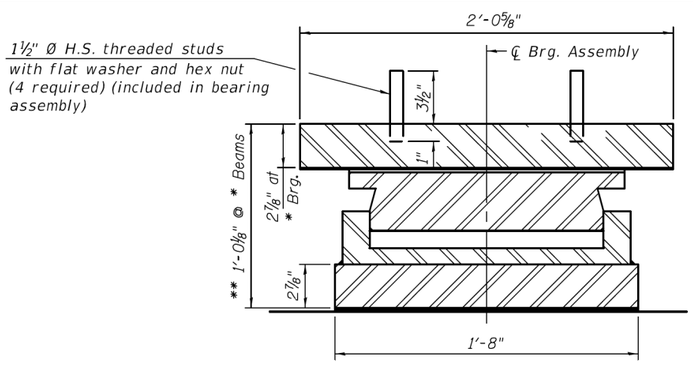
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	50
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	



ELEVATION



SECTION A-A



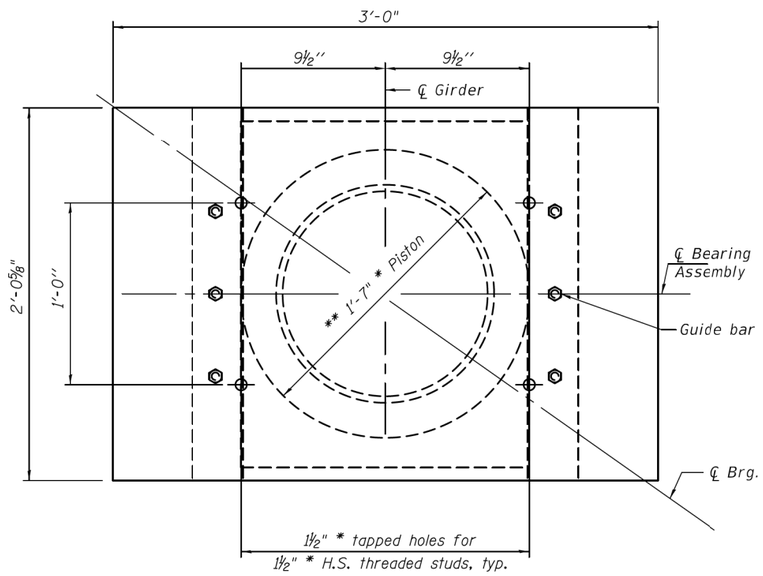
SECTION B-B

(Guide bar and girder omitted for clarity)

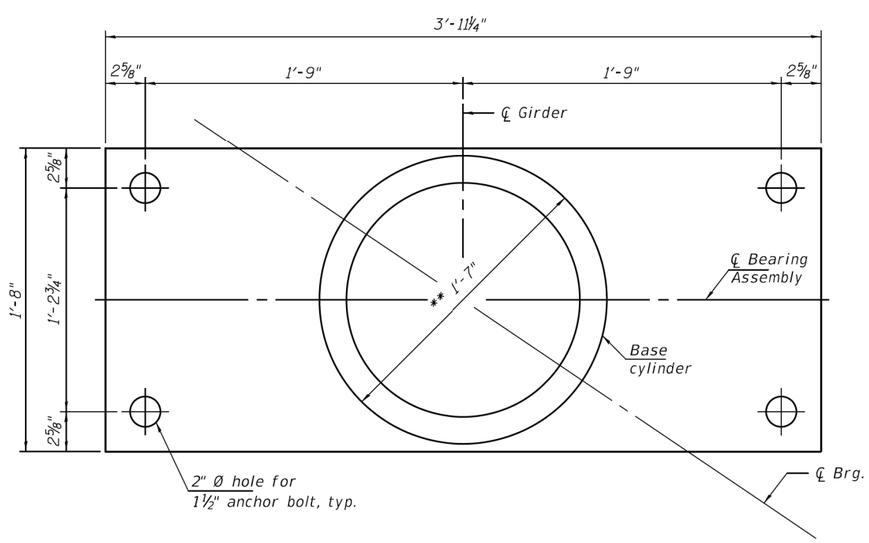
** Dimensions may vary depending on Manufacturer's design.

*** Rotation allowances for fabrication tolerances (0.005 rad) and installation uncertainties (0.005 rad) excluded.

* As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece. If bolted connection is used, maintain a minimum clearance of 3" from the centerline of the threaded stud to the bolts in the guide bar.



TOP BEARING ℄ AND PISTON PLAN



BOTTOM BEARING ℄ AND BASE CYLINDER PLAN

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

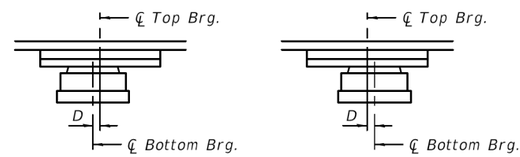
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270, Grade 50.

Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Bearing dimensions and details shown are for a pot type HLMR bearing. Disc type HLMR bearing dimensions and details will vary.

Bearing Assembly height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible verifying bearing heights and adjusting concrete pedestal elevations, if required.

Modifications to the Bearing plates at abutments or piers shall consider the location of the backwall or concrete pedestal dimensions and required expansion length if exceeding the end of the girder.



SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

DESIGN DATA

Data	E. Abut.
Service Vertical Design Load (kips)	684
Horizontal Design Load (kips), Hu	137
Design Rotation (rad), θu ***	0.0077
Total Required Movement (in.)	6⅝
Slope for Bevel of Top Brg. ℄ (%)	-4.17

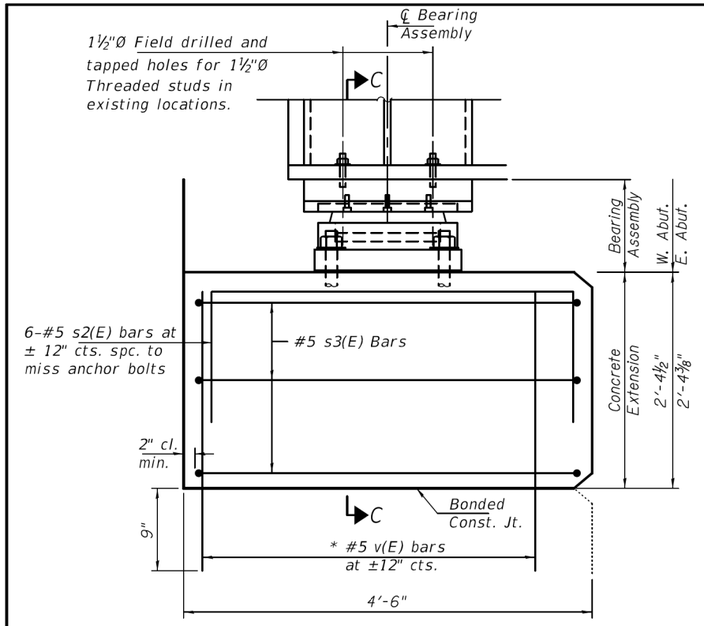
BILL OF MATERIAL

Item	Unit	Total
High Load Multi-Rotational Bearings, Guided Expansion, 700k	Each	4
Anchor Bolts, 1½"	Each	16

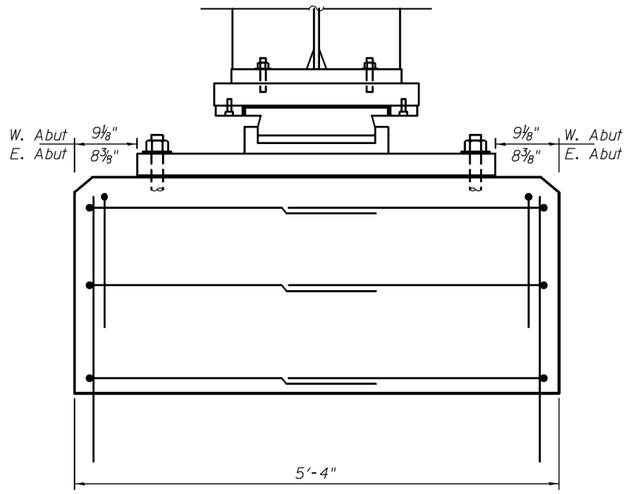
DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - Venkat Reddy	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

EAST ABUTMENT BEARING DETAILS
SN 090-0114
SHEET NO. 16 OF 23 SHEETS

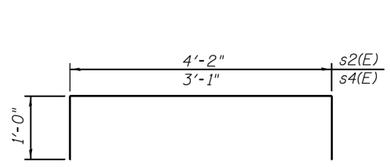
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	51
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	



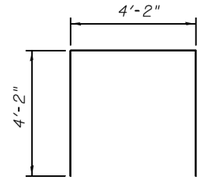
ELEVATION



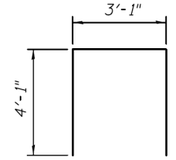
SECTION C-C



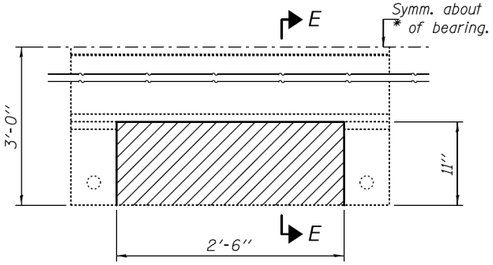
BAR s2(E) & s4(E)



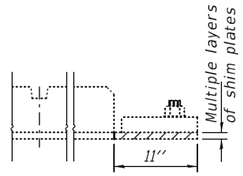
BAR s3(E)



BAR s5(E)



PLAN



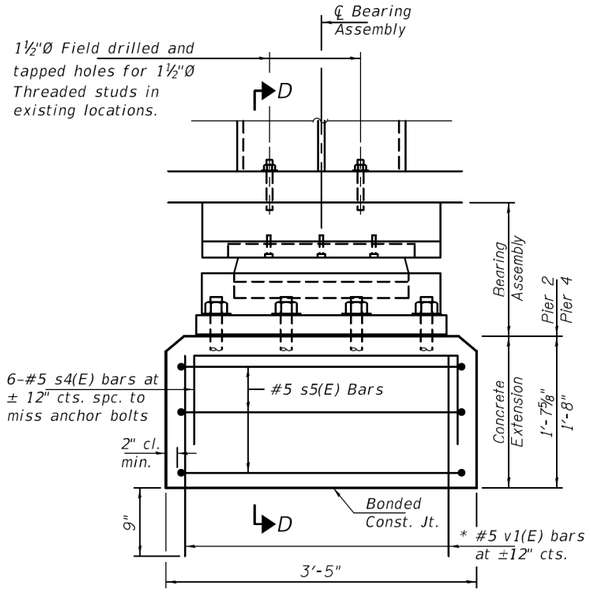
SECTION E-E

WEST & EAST ABUTMENT'S

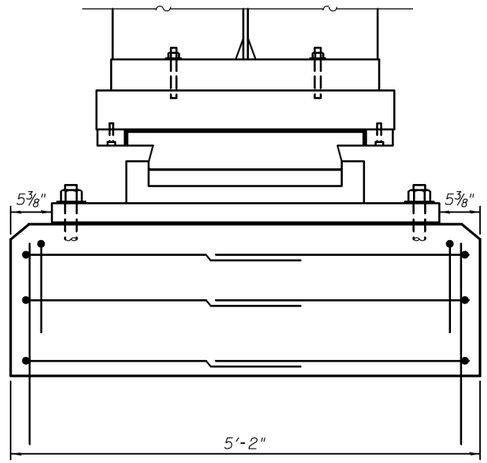
SHIM REMOVAL DETAILS

(Pier 6 - Girder 4)

Hatched areas indicate shim plate removal. Removal is typical each side of bearing.



ELEVATION



SECTION D-D

PIER 2 & 4

Note:

Prior to ordering any material, the contractor shall verify in the field all bearing height and shim thickness dimensions.

* Epoxy grout bars in 9" min. holes according to Article 584 of the Standard Specifications.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
s2(E)	48	#5	6'-2"	
s3(E)	48	#5	12'-6"	
s4(E)	48	#5	5'-1"	
s5(E)	48	#5	11'-3"	
v(E)	22	#5	2'-11"	
v1(E)	20	#5	2'-2"	
Reinforcement Bars, Epoxy Coated			Pound	1860
Structural Steel Removal			Pound	110
Concrete Structures			Cu. Yd.	25.2

DESIGNED - AJR
CHECKED - JSB
DRAWN - Venkat Reddy
CHECKED - AJR JSB

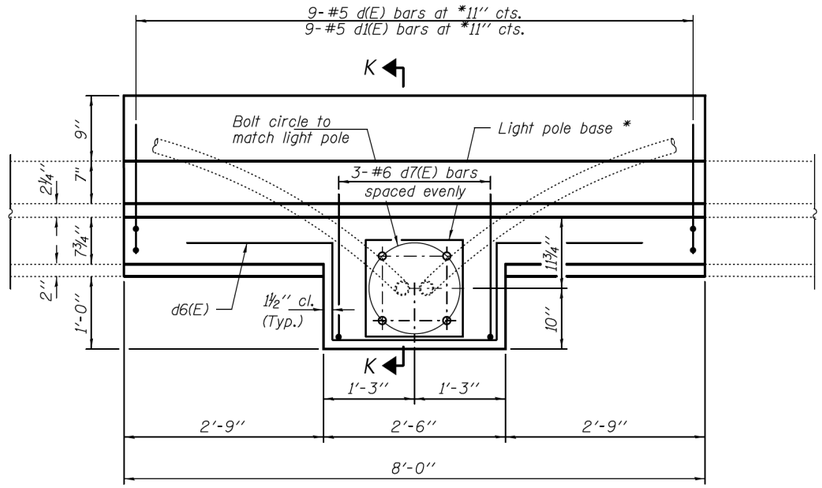
EXAMINED
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

DATE - JUNE 23, 2020
REVISED -
REVISED -

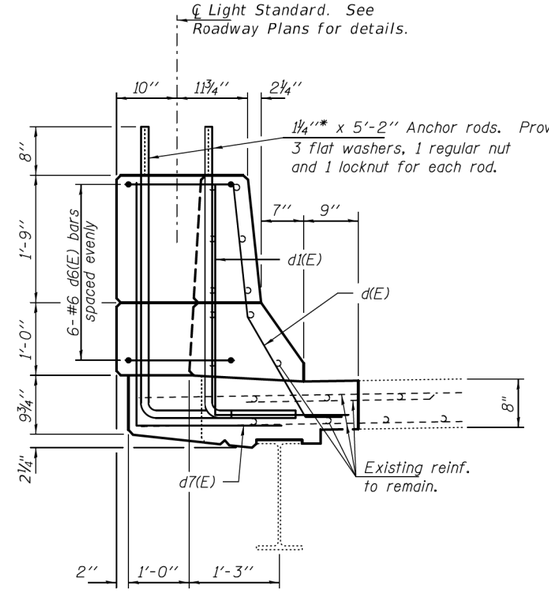
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PEDESTAL DETAILS
SN 090 - 0114
SHEET NO. 17 OF 23 SHEETS

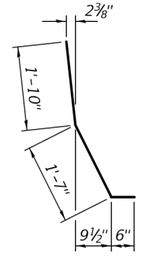
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	52
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



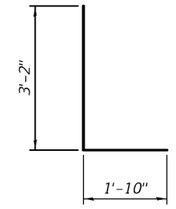
PLAN



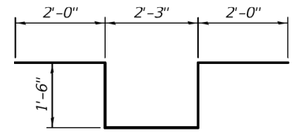
SECTION K-K



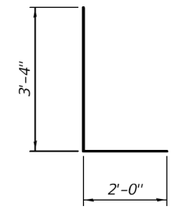
BAR d(E)



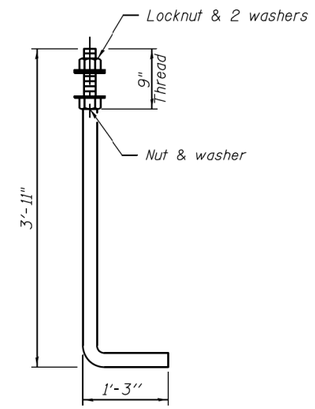
BAR d1(E)



BAR d6(E)



BAR d7(E)



ANCHOR ROD

1¼" Diameter
(ASTM F 1554 Grade 105) Full length hot dipped galvanized. Paid for as Anchor Bolts, 1¼".

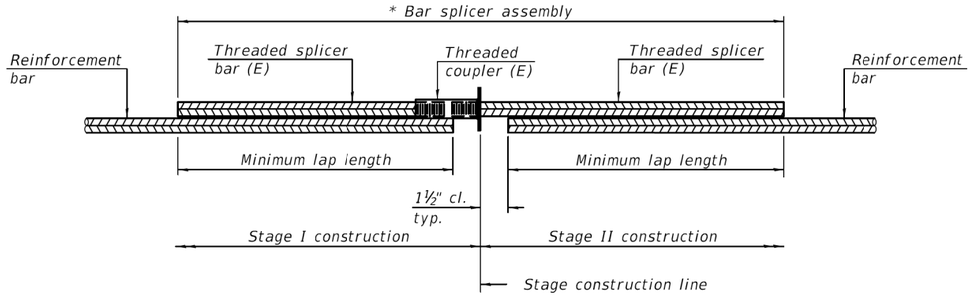
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	9	#5	3'-11"	
d1(E)	9	#5	5'-0"	
d6(E)	6	#6	9'-3"	
d7(E)	3	#6	5'-4"	
Concrete Removal			Cu. Yd.	1.7
Concrete Superstructure			Cu. Yd.	1.7
Protective Coat			Sq. Yd.	4.3
Reinforcement Bars, Epoxy Coated			Pound	190
Anchor Bolts, 1¼"			Each	4

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - *daburdell*	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

LIGHT STANDARD REPAIR DETAILS
SN 090-0114
SHEET NO. 18 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	53
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



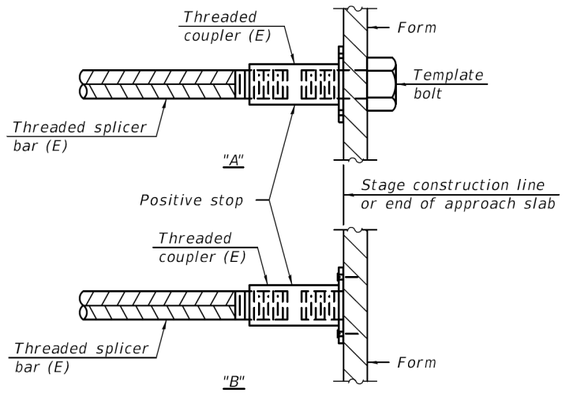
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

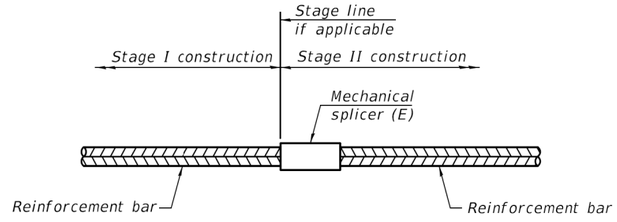
** Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.*

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
W. Abut.	#5	194
E. Abut.	#5	194

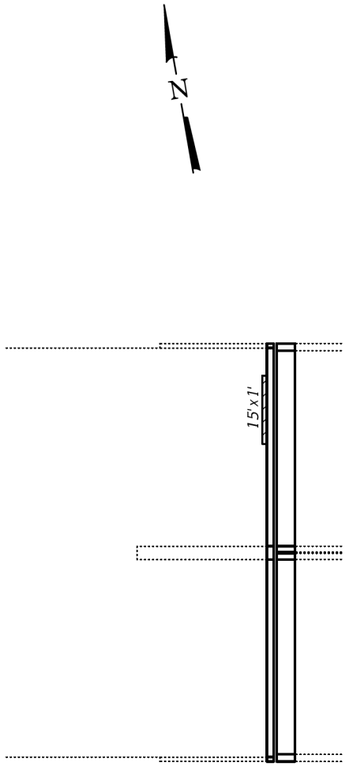
Notes:
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 *1-1-2020*

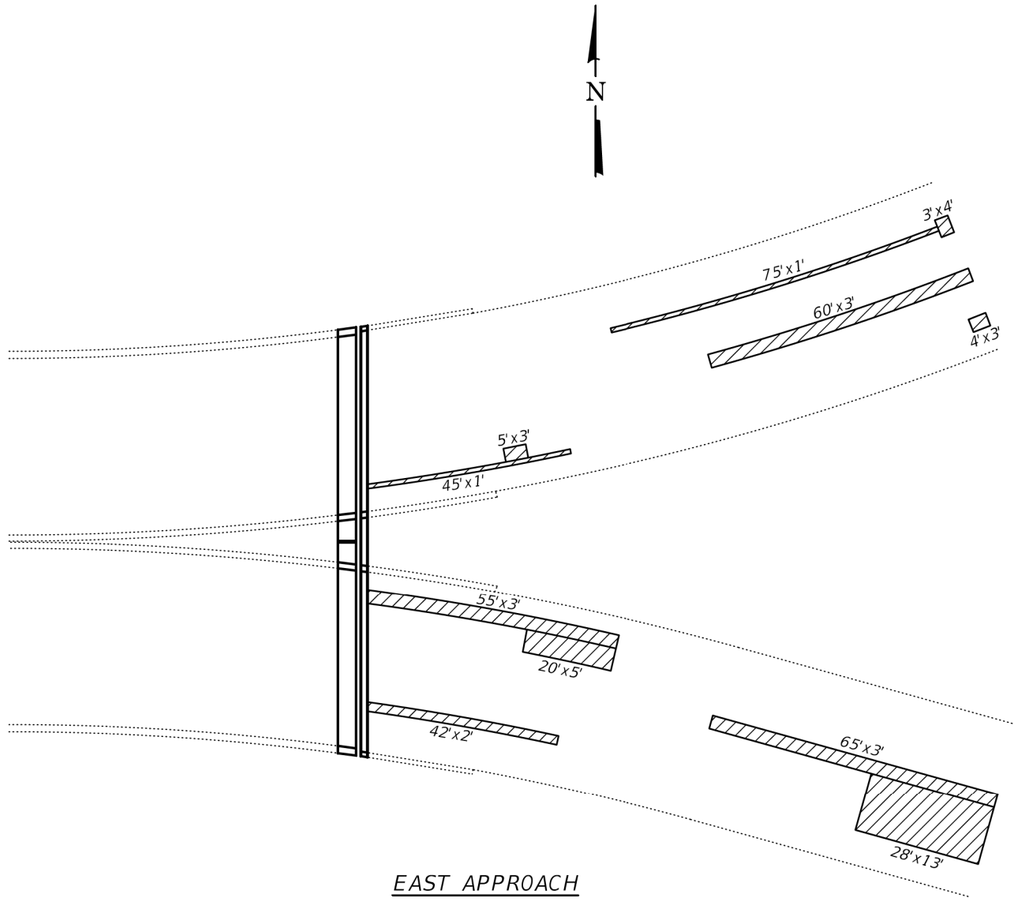
DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - *daburdell*	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 090-0114
SHEET NO. 19 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	54
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



WEST APPROACH



EAST APPROACH

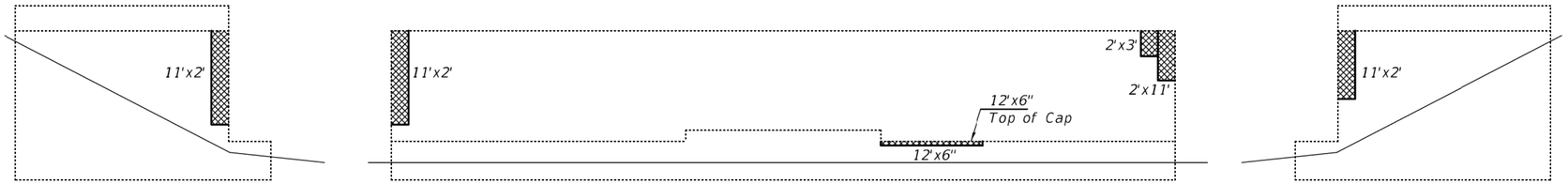
Indicates Deck Slab Repair (Partial).

BILL OF MATERIAL

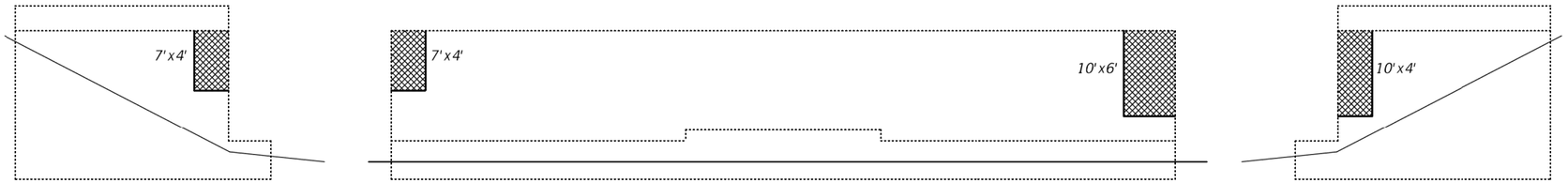
Item	Unit	Total
Deck Slab Repair (Partial)	Sq. Yd.	140

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED	REVISED -	**REPAIR DETAILS SN 090-0114**
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	SHEET NO. 20 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	55
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			



WEST ABUTMENT
(Looking West)



EAST ABUTMENT
(Looking East)

Structural Repair of Concrete (Depth > 5")

BILL OF MATERIAL

Item	Unit	Total
* Structural Repair of Concrete (Depth > 5")	Sq. Ft.	524

* Quantity includes an additional estimated 262 Sq. Ft.

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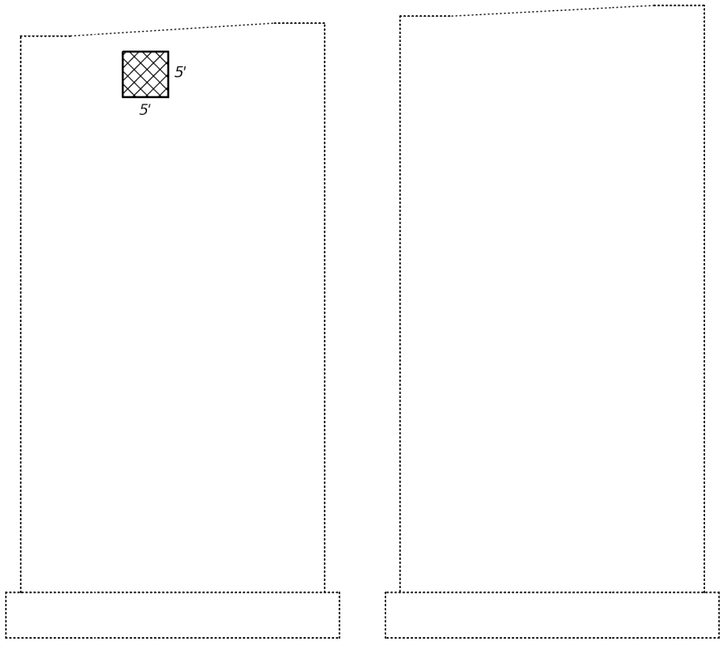
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

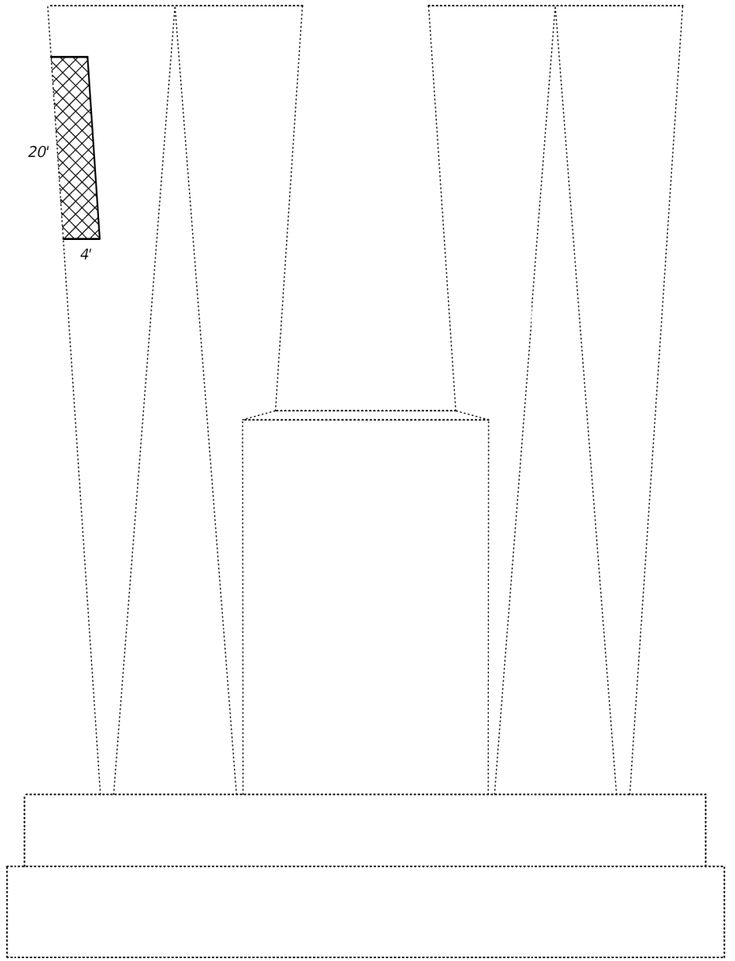
REPAIR DETAILS
SN 090-0114
SHEET NO. 21 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	56
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		



PIER 5
(Looking East)

NORTH PARAPET REPAIR
(24'-0" East of West Abut.)



PIER 7
(Looking West)

Structural Repair of Concrete (Depth ≤ 5")

BILL OF MATERIAL

Item	Unit	Total
* Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	262

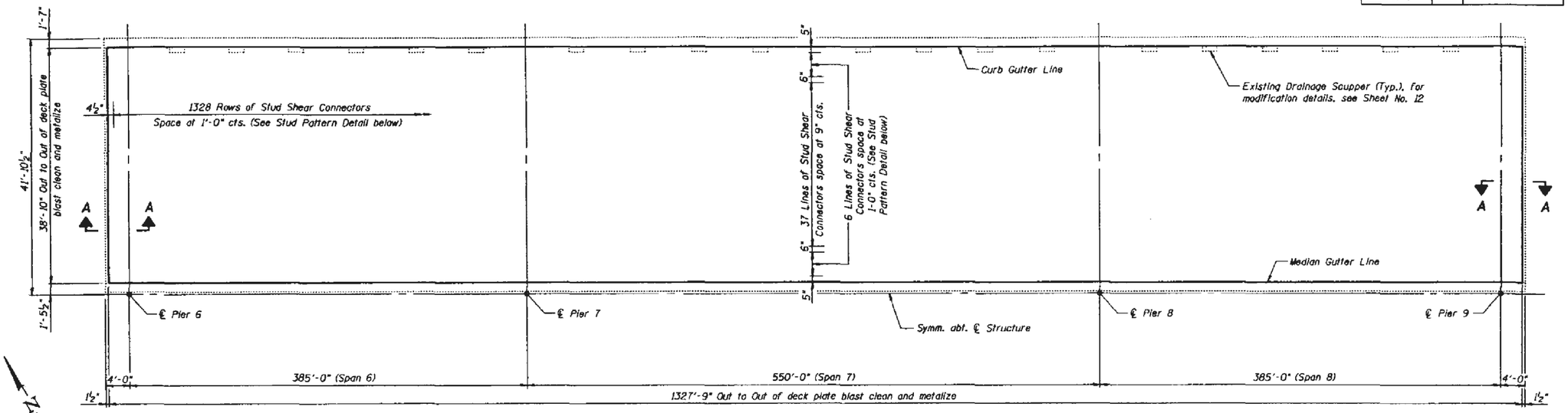
* Quantity includes an additional estimated 131 Sq. Ft.

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED	REVISED -	REPAIR DETAILS SN 090-0114
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	SHEET NO. 22 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	57
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

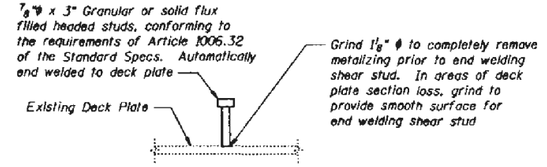
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	12(B)I	Peoria - Tazewell	34	8
FED. ROAD DIST. NO.		FED. AID PROJECT NO.		



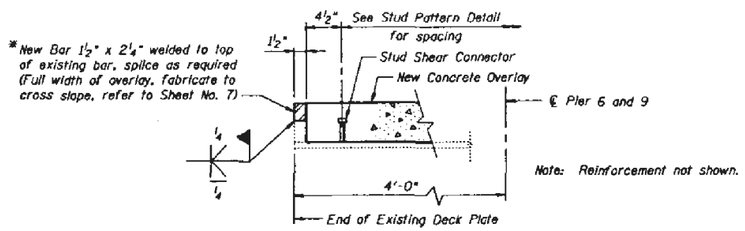
DECK PLATE PLAN - MAIN RIVER SPANS

(Westbound Lanes shown, Eastbound Lanes opposite hand)

STUD PATTERN DETAIL



STUD SHEAR CONNECTOR DETAIL



SECTION A-A

* Cost of new bar, shall be included in the cost bid associated with the joints, at Piers 6 and 9, "Removal and Replacement of Preformed Elastomeric Compression Joint Seal".

Notes: Areas of the deck plate with severe section loss, as determined by the Engineer, shall be provided with a second coating of zinc-metalizing as specified in the Special Provisions; payment for this work shall be made based on the unit bid price for "Additional Zinc-Metalizing".

The quantity of 573 square yards for "Additional Zinc-Metalizing" is based on an assumption of 5% of the total steel deck plate area.

Omit shear studs where existing drainage scuppers interfere with stud placement.

Individual shear studs may be shifted transversely and/or longitudinally up to 2" to avoid existing deck plate butt welds.

Individual shear studs may be shifted transversely and/or longitudinally to avoid areas of the plate with severe section loss only as approved by the Engineer.

See Sheet No. 10 for incidental blast cleaning and metalizing of drainage scuppers.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Blast Clean Steel Deck Plate	Sq. Yd.	11,458
Zinc-Metalize Steel Deck Plate (Typical)	Sq. Yd.	11,458
Additional Zinc-Metalizing	Sq. Yd.	573
Stud Shear Connectors	Each	130,144

DESIGNED	K.E.E.
CHECKED	Y.S.S.
DRAWN	P.R.C.
CHECKED	Y.S.S.

6/7/99

MODJESKI and MASTERS
INCORPORATED
Consulting Engineers
5500 Corner Grove Road - Edwardsville, Illinois

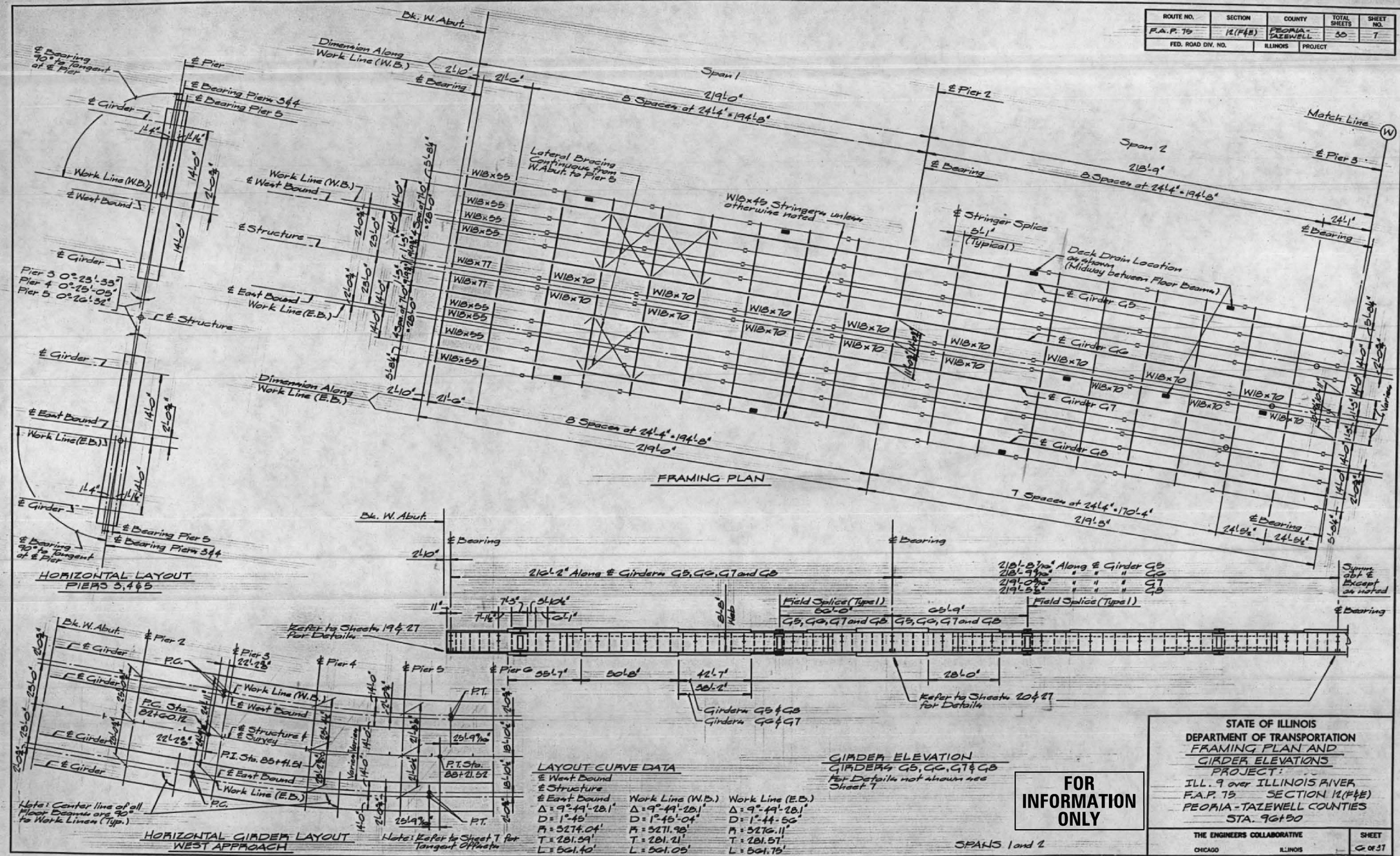
FOR INFORMATION ONLY

MAIN SPAN MODIFICATIONS - 2
F.A.P. ROUTE 693 (IL 9) OVER
ILLINOIS RIVER
F.A.P. ROUTE 693 (IL 9) SECTION 12(B)I
PEORIA-TAZEWELL COUNTIES
STATION 96+50
STRUCTURE NO. 090-0114

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED	REVISED -	EXISTING PLAN SHEET - FOR INFORMATION ONLY SN 090-0114
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	SHEET NO. 23 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	58
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 75	12(F&E)	PEORIA - TAZEWELL	30	7
FED. ROAD DIV. NO.	ILLINOIS	PROJECT		



FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRAMING PLAN AND GIRDER ELEVATIONS
PROJECT:
ILL. 9 over ILLINOIS RIVER,
F.A.P. 75 SECTION 12(F&E)
PEORIA - TAZEWELL COUNTIES
STA. 96+50

THE ENGINEERS COLLABORATIVE
CHICAGO ILLINOIS

SHEET G OF 37

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	
CHECKED - JSB			
DRAWN - *daburdell*	PASSED	REVISED -	
CHECKED - AJR JSB		REVISED -	

Timothy A. Bollenbacher
ENGINEER OF STRUCTURAL SERVICES

J. Carl Puzey
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN SHEET - FOR INFORMATION ONLY
SN 090-0114
SHEET NO. 23A OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	59
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 75	12(F&E)	PEORIA-TAZEWELL	38	6
FED. ROAD DIV. NO.		ILLINOIS	PROJECT	

FRAMING PLAN

GIRDER ELEVATION (GIRDERS G5, GG, G7 & GB)

GIRDER ELEVATION (GIRDERS G9, G10, G11 & G12)

TYPICAL WEB SPLICE DETAIL
Girders G5 Thru G10

TANGENT OFFSETS
PIERS 3, 4 & 5

SPANS 3, 4 and 5

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRAMING PLAN AND GIRDER ELEVATIONS
PROJECT:
ILL. 9 over ILLINOIS RIVER
F.A.P. 75 SECTION 12(F&E)
PEORIA-TAZEWELL COUNTIES
STA. 96+30

THE ENGINEERS COLLABORATIVE
CHICAGO ILLINOIS

SHEET 7 OF 57

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

EXISTING PLAN SHEET - FOR INFORMATION ONLY
SN 090-0114
SHEET NO. 23B OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	60
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 75	12(F&E)	PEORIA - TAZEWELL	58	9
FED. ROAD DIV. NO.	ILLINOIS	PROJECT		

Match Line (X) — ℄ Pier 6 — Span 6 385'-0" — ℄ Pier 7 — Span 7 275'-0" — Match Line (Y)

Floor Beam and Diaphragm spacing: 20 Spaces at 19'-3" = 385'-0" — 8 Spaces at 19'-7½" = 157'-0" — 6 Spaces at 19'-8" = 118'-0"

57'-9" | 57'-9" | 57'-9" | 57'-9" | 57'-9" | 57'-9" | 38'-6" | 39'-3" | 58'-10½" | 58'-10½" | 59'-0" | 59'-0" | ℄ Span

Crown Frame | Int. C.F. Type I | Int. C.F. Type I | Int. C.F. Type I | Int. C.F. Type I | Int. C.F. Type I | Int. C.F. Type II | Crown Frame | Int. C.F. Type II | Int. C.F. Type I | Int. C.F. Type I | Int. C.F. Type I | Int. C.F. Type I

℄ Girder G1 — ℄ Girder G2 — ℄ Girder G3 — ℄ Girder G4 — ℄ Structure

21'-0" — 20'-10½" — 14'-0"

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D34 D35

Deck Plate - For Details Refer to Sheets 4 & 5

S/2 — ℄ Additional Stiff. — Intermediate Stiffeners at 3rd. points or mid point of Floor Beam spacing as shown on staff and additional stiffener adjoining ℄ Pier 6 and ℄ Pier 9 as Located

FRAMING PLAN

℄ Pier 6 — ℄ Pier 7 — ℄ Span

All web R's, bottom flange stiffeners and bottom flange R's. - F.C.M. — All web R's. - F.C.M. — All web R's, bottom flange stiffeners and bottom flange R's. - F.C.M.

385'-0" — 660'-0" — 275'-0"

4" Deck Ht.

54'-3" | 57'-3" | 58'-3" | 57'-9" | 57'-9" | 57'-9" | 61'-9" | 58'-10½" | 58'-10½" | 59'-0" | 59'-0"

4'-0" — 42'-0" — 42'-9" — 55'-0" — 4'-0"

Deck Ht. Cut off — Field Splice (Type A) — F.S. (Type B) — F.S. (Type C) — F.S. (Type D) — F.S. (Type E) — F.S. (Type F) — F.S. (Type G) — F.S. (Type H) — F.S. (Type J) — Field Splice (Type K)

3'-11⅜" — Web and Bott. Flg. Cut off — Deck Ht.

Detail "A" — Flange Stiff. — WT8 x 18 Bott. Flange Stiffener — WT10.5 x 27.9 Bott. Flange Stiffener — WT8 x 18 Bott. Flange Stiffener — Detail "A"

119'-0" — 34'-0" — 32'-0" — 18'-3" — 18'-3" — 27'-0" — 27'-0" — 48'-3" — 59'-0" — 1'-0"

104'-11⅜" (½" Web Ht.) — 115'-6" (⅜" Web Ht.) — 445'-6" (⅝" Web Ht.)

98'-0" (½" Web Ht.) — At Webs aligning with Approach Span Girders G9, G10, G11 & G12

WT8 x 18 shall be continuous through diaphragms D17 thru D18 and D26 thru D29. Butt weld sections of stiffeners end to end as necessary to obtain required length of stiffener. Refer to Stiffener Weld Detail this sheet and Detail "I" Sheet 15. For Stiffener details of diaphragms D17 thru D25 Refer to Detail "I" Sheet 15.

GIRDER ELEVATION

TYPICAL WEB SPLICE DETAIL — Girders G1 thru G4

Deck Ht. — Vertical Web shop weld as required — ℄ Transverse Stiffener or Diaphragm — Typical Bott. Flange shop splice — 14" Web Ht. — 2½" — 4" Min. — 2'-0" Min. — 4" Min. — 2½" — A — A — GAG

SECTION A-A — ℄ Girder — Inside Surface — Exterior Surface — Web Ht. — 7'-0" Cut to Cut — 2½ — 12

Detail "A" (Shielding Typical Flange Stiffener Termination) — 1'-0" — ℄ D16 or D24 — Flange Stiffener — R-7" — ⅝" — Bottom Flange

Stiffener Weld Detail — Radiograph 100% — G — 1" radius web notch — WT8 x 18

FOR INFORMATION ONLY

SPANS 6 and 7

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRAMING PLAN AND GIRDER ELEVATIONS
PROJECT
ILL. 9 over ILLINOIS RIVER
F.A.P. 75 SECTION 12(F&E)
PEORIA - TAZEWELL COUNTIES
STA. 96+50

THE ENGINEERS COLLABORATIVE — CHICAGO ILLINOIS — SHEET B 0837

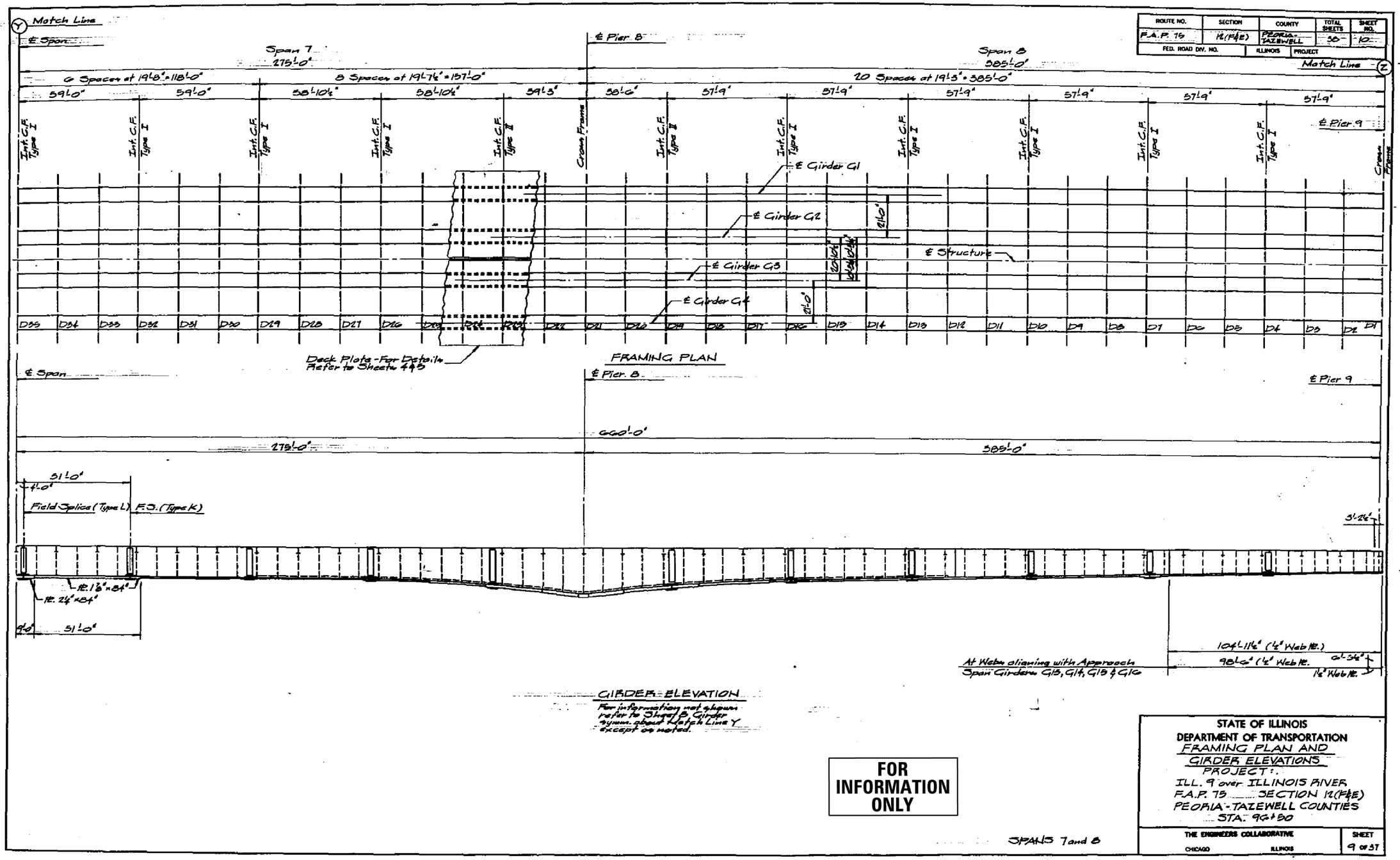
DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - *dabardell*	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN SHEET - FOR INFORMATION ONLY
SN 090-0114
SHEET NO. 23C OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	61
		CONTRACT NO. 68E79		
	ILLINOIS FED. AID PROJECT			

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 75	12(F&E)	PEORIA-TAZEWELL	30	10
FED. ROAD DIV. NO.	ILLINOIS	PROJECT		



FOR INFORMATION ONLY

SPANS 7 and 8

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRAMING PLAN AND GIRDER ELEVATIONS
PROJECT:
ILL. 9 over ILLINOIS RIVER
F.A.P. 75 SECTION 12(F&E)
PEORIA-TAZEWELL COUNTIES
STA. 96+30

THE ENGINEERS COLLABORATIVE
CHICAGO ILLINOIS

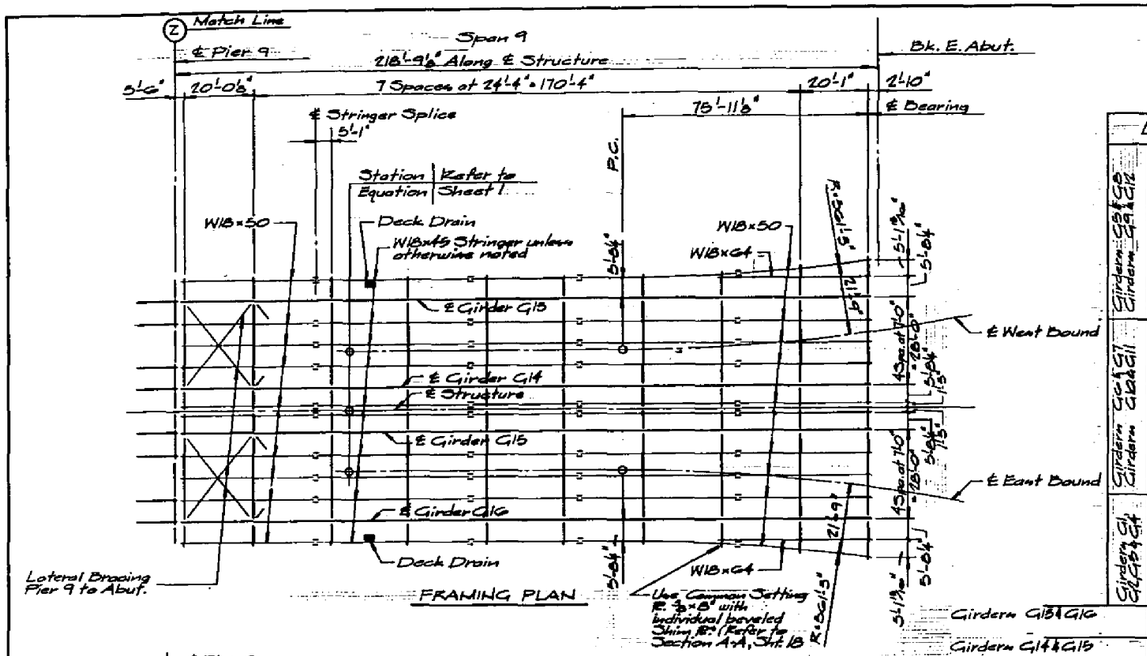
SHEET 9 OF 37

DESIGNED - AJR	EXAMINED	DATE - JUNE 23, 2020	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES		
DRAWN - *daburdell*	PASSED	REVISED -	
CHECKED - AJR JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

EXISTING PLAN SHEET - FOR INFORMATION ONLY
SN 090-0114
SHEET NO. 23D OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	PEORIA	92	62
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 75	12(P&E)	PEORIA - TAZEWELL	30	11
FED. ROAD DIV. NO.	ILLINOIS	PROJECT		



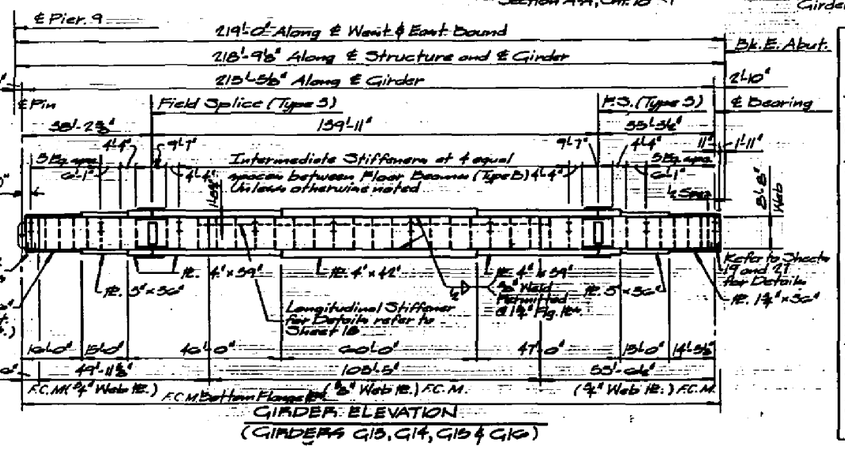


TABLE OF MOMENTS AND REACTIONS

	LOCATION	I (in⁴)	D.L. (k/ℓ)	M D.L. (1k)	M L.L. (1k)	M I (1k)	M Total (1k)	fs (ksi)	R D.L. (k)	R L.L. (k)	R I (k)	R Total (k)
Girders G13 & G16	West Abutment	—	—	—	—	—	—	—	410	107	49	566
	0.4 Span 1	612914	4.981	16904	4030	2115	23049	18.1	—	—	—	—
	Pier 2	601797	4.981	27154	5900	2711	35765	22.4	1247	272	126	1645
	0.5 Span 2	410869	4.989	7440	3480	1604	12524	19.7	—	—	—	—
	Pier 3	688631	5.027	17844	5030	2516	26390	24.1	1017	257	118	1389
	0.5 Span 3	410869	5.090	7610	3550	1642	12802	22.0	—	—	—	—
	Pier 4	601797	5.154	28868	6110	2825	37800	25.7	1313	282	129	1724
	0.4 Span 4	612914	5.154	18289	4840	2254	25383	24.7	—	—	—	—
	Pier 5 (Left)	—	—	—	—	—	—	—	434	111	50	595
	Pier 5 (Right)	—	—	—	—	—	—	—	507	97	45	709
	0.5 Span 5	1128282	5.22	5044	3840	2681	38969	28.6	—	—	—	—
	West Abutment	—	—	—	—	—	—	—	504	128	59	691
Girders G14 & G15	0.4 Span 1	898587	6.089	20828	5540	2621	28889	21.6	—	—	—	—
	Pier 2	1151668	6.089	38298	7090	3828	45016	28.9	1532	320	152	2010
	0.5 Span 2	569099	5.904	8856	4140	1885	14801	17.1	—	—	—	—
	Pier 3	910304	5.559	24984	5830	2704	29408	21.8	1179	290	144	1613
	0.5 Span 3	569099	5.627	8950	5980	1822	14152	10.4	—	—	—	—
	Pier 4	1151668	5.414	50370	6940	3027	59917	28.6	1379	300	138	1817
	0.4 Span 4	898587	5.414	19156	5120	2519	26649	19.4	—	—	—	—
	Pier 5 (Left)	—	—	—	—	—	—	—	459	117	51	627
	Pier 5 (Right)	—	—	—	—	—	—	—	507	100	46	713
	0.5 Span 5	1128282	5.21	5037.0	6090	2792	34172	23.8	—	—	—	—
Girders G13 & G14	Pier 6	—	—	—	—	—	—	—	987	373	44	1404
	0.4 Span 6	1905197	5.559	29429	18417	1805	49651	* 23.9	—	—	—	—
	Pier 7	8812750	4.542	98150	58199	3218	159501	* 26.1	2018	709	92	2779
	0.5 Span 7	3468944	3.840	44096	21500	1816	69010	* 26.7	—	—	—	—
	Pier 8	8812750	4.542	98150	58199	3218	159501	* 26.1	2018	709	92	2779
	0.4 Span 8	1905197	5.559	29429	18417	1805	49651	* 23.9	—	—	—	—
	Pier 9	—	—	—	—	—	—	—	987	373	44	1404
	0.5 Span 9	1070080	5.14	24990	5800	2663	38789	24.4	—	—	—	—
	East Abutment	—	—	—	—	—	—	—	584	100	47	731
Girders G14 & G15	0.5 Span 9	1070080	5.08	18492	5840	2666	31438	19.9	—	—	—	—
	East Abutment	—	—	—	—	—	—	—	557	97	45	699
FLOOR BEAM & STRINGER SIZE — EAST AND WEST APPROACH SPANS	Typical 5'-6" Cantilever	4780	***	—	—	—	552	13.8	76	49	15	140
	Mid Span	6020	—	155	404	120	729	23.8				
	Cantilever, greater than 5'-6" to 7'-4"	5950	***	—	—	—	552	18.4	86	44	14	144
	Mid Span	8250	—	192	414	123	729	17.5				
	Cantilever, greater than 7'-4"	8240	***	—	—	—	796	19.2	101	59	16	172
	Mid Span	11,380	—	124	415	124	663	11.5				
	W18×45 Typ. Interior	Interior Support	700	1.05	65	73	22	160	24.2	26	28	8	62
		Mid Span			27	82	24	135	20.4				
	W18×45 Median or Fascia	Interior Support	700	1.09	67	56	11	114	17.3	27	19	6	52
		Mid Span			28	46	14	88	13.4				
	W18×50 Typ. Interior	Interior Support	802	1.05	67	88	26	181	24.4	27	28	9	64
		Mid Span			45	96	29	170	22.8				
	W18×50 Median or Fascia	Interior Support	802	1.09	69	46	14	129	17.4	27	19	6	52
		Mid Span			46	51	16	113	15.2				
	W18×55 ** Typ. Interior	Interior Support	891	1.05	67	88	26	181	24.4	29	28	9	66
		Mid Span			45	96	29	170	22.8				
	W18×55 ** Median or Fascia	Interior Support	891	1.09	69	50	15	134	18.4	30	20	6	56
		Mid Span			46	54	17	117	14.4				
	W18×60 ** Median	Interior Support	896	1.51	81	58	17	151	14.2	32	23	7	64
		Mid Span			54	51	15	120	11.1				
	W18×71 ** Interior	Interior Support	1060	Varies .8 Max.	24	70	21	115	11.7	—	—	—	—
		Mid Span			21	67	20	108	11.0				
	W18×76 ** Median	Interior Support	1160	1.07	103	73	22	198	18.4	41	30	11	88
		Mid Span			43	88	26	157	14.6				
	W18×77 ** Median	Interior Support	1290	1.07	107	95	29	201	15.6	43	30	11	90
		Mid Span			72	101	30	203	17.2				

** LL+I Deflection Controls
*** Based on Moment and Net Section at Field Splice Location
* Bottom Flange Stress

FOR INFORMATION ONLY

SPAN 9

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRAMING PLAN AND GIRDER ELEVATIONS
PROJECT:
ILL. 9 over ILLINOIS RIVER
F.A.P. 75 SECTION 12(P&E)
PEORIA-TAZEWELL COUNTIES
STA. 96+50

THE ENGINEERS COLLABORATIVE — CHICAGO ILLINOIS

SHEET 10 OF 37

DESIGNED - AJR	EXAMINED	Timothy A. Sheckler ENGINEER OF STRUCTURAL SERVICES	DATE - JUNE 23, 2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN SHEET - FOR INFORMATION ONLY SN 090-0114	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - JSB	PASSED	J. Carl Kruger ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			693	(12B)BR,BDR,BJR	PEORIA	92	63
DRAWN - daburdell			REVISED -					CONTRACT NO. 68E79		
CHECKED - AJR JSB					SHEET NO. 23E OF 23 SHEETS			ILLINOIS	FED. AID PROJECT	

CONSTRUCTION NOTES	
1.	EXISTING UTILITY LOCATION INFORMATION IS NOT SHOWN ON THE PLAN SHEETS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES PRIOR TO THE INSTALLATION OF ANY COMPONENTS. THE CONTRACTOR SHALL VERIFY EXISTING
2.	THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
3.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
4.	ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
5.	THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03 UNLESS SPECIFIED OTHERWISE.
6.	ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.
7.	ANY MAINTENANCE OF EXISTING ELECTRICAL FACILITIES WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
8.	THE EXISTING LIGHTING AND CCTV CAMERAS SHALL REMAIN IN OPERATION DURING THE INSTALLATION OF THE PROPOSED COMPONENTS.
9.	THE CONTRACTOR SHALL FURNISH 3/4" DIAMETER SCHEDULE 40 PVC CONDUIT AND INSTALL IT ON THE EXISTING CATWALK RAILING. THE CONDUIT SHALL BE FIRMLY ATTACHED WITH ATTACHMENT SPACING NOT TO EXCEED EVERY SIX FEET. THE CONTRACTOR SHALL FURNISH AND INSTALL NON-METALLIC SEALTITE TO ACCOMODATE MOVEMENT FROM EXPANSION AND DEFLECTION AND PREVENT DAMAGE TO THE CONDUIT. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 811 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AS "UNDERGROUND CONDUIT, PVC, 3/4" DIA.".
10.	THE CONTRACTOR SHALL FURNISH 1-1/2" DIAMETER SCHEDULE 40 PVC CONDUIT AND INSTALL IT ON THE EXISTING CATWALK RAILING AT THE LOCATIONS INDICATED ON THE PLAN SHEETS. THE CONDUIT SHALL BE FIRMLY ATTACHED WITH ATTACHMENT SPACING NOT TO EXCEED EVERY SIX FEET. THE CONTRACTOR SHALL FURNISH AND INSTALL NON-METALLIC SEALTITE TO ACCOMODATE MOVEMENT FROM EXPANSION AND DEFLECTION AND PREVENT DAMAGE TO THE CONDUIT. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 811 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AS "UNDERGROUND CONDUIT, PVC, 1-1/2" DIA.".
11.	CAT 6 ETHERNET CABLE RUNS SHALL NOT EXCEED 300 FT. TO ENSURE FUNCTIONALITY.
12.	ALL METALLIC STRUCTURES, CONDUITS, AND JUNCTION BOXES SHALL BE GROUNDED AND SAFETY BONDED IN ACCORDANCE WITH NEC REQUIREMENTS
13.	THE CONTRACTOR SHALL FURNISH AND INSTALL LIGHT POLE PROTECTION SLEEVES ON ALL EXISTING AND PROPOSED LIGHT POLES TO PROVIDE PROTECTION FROM SNOW PLOW BADE IMPACTS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "ROADWAY LIGHTING MODIFICATIONS".
14.	THE CONTRACTOR SHALL FURNISH AND TEMPORARY CONDUITS, JUNCTION BOXES, WIRING, AND ALL OTHER ITEMS REQUIRED TO PROVIDE TEMPORARY SERVICE FOR THE OVERHEAD LIGHTING AND RWIS DURING THE REPLACEMENT OF THE BRIDGE BEARINGS ON THE EAST ABUTMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "MISCELLANEOUS ELECTRICAL WORK".

SCHEDULE OF QUANTITIES FOR ELECTRICAL WORK - PEKIN BRIDGE

ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	600.0
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	130.0
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., STAINLESS STEEL	FOOT	300.0
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	2.0
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 8"	EACH	2.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	1.0
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1.0
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 6 FT. MAST ARM	EACH	1.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	299.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	620.5
DRILL EXISTING HANDHOLE	EACH	1.0
REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1.0
SUPPORT EQUIPMENT AND MAINTENANCE	L SUM	1.0
CIRCUIT BREAKER, 1-POLE, 20 AMP, 120V IN EXISTING TSC CABINET	EACH	1.0
REPLACEMENT OF SENSORS FOR ROADWAY WEATHER INFORMATION SYSTEM	L SUM	1.0
ROADWAY LIGHTING MODIFICATIONS	L SUM	1.0
UPGRADE RPU EQUIPMENT AND COMMUNICATIONS AT RWIS SITE	EACH	1.0
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE	EACH	1.0
CAT 5 ETHERNET CABLE	FOOT	94.0
CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT	EACH	1.0
MISCELLANEOUS ELECTRICAL WORK	L SUM	1.0
CAT. 6 ETHERNET CABLE	FOOT	1268.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	6.0
TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	L SUM	1.0
CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., STAINLESS STEEL	FOOT	35.0
CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., STAINLESS STEEL	FOOT	125.0
JUNCTION BOX (SPECIAL)	EACH	2.0
TEMPORARY LIGHTING SYSTEM	L SUM	1.0
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2.0
TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	2.0

NOT TO SCALE
ELECTRICAL SHEET 1 OF 22

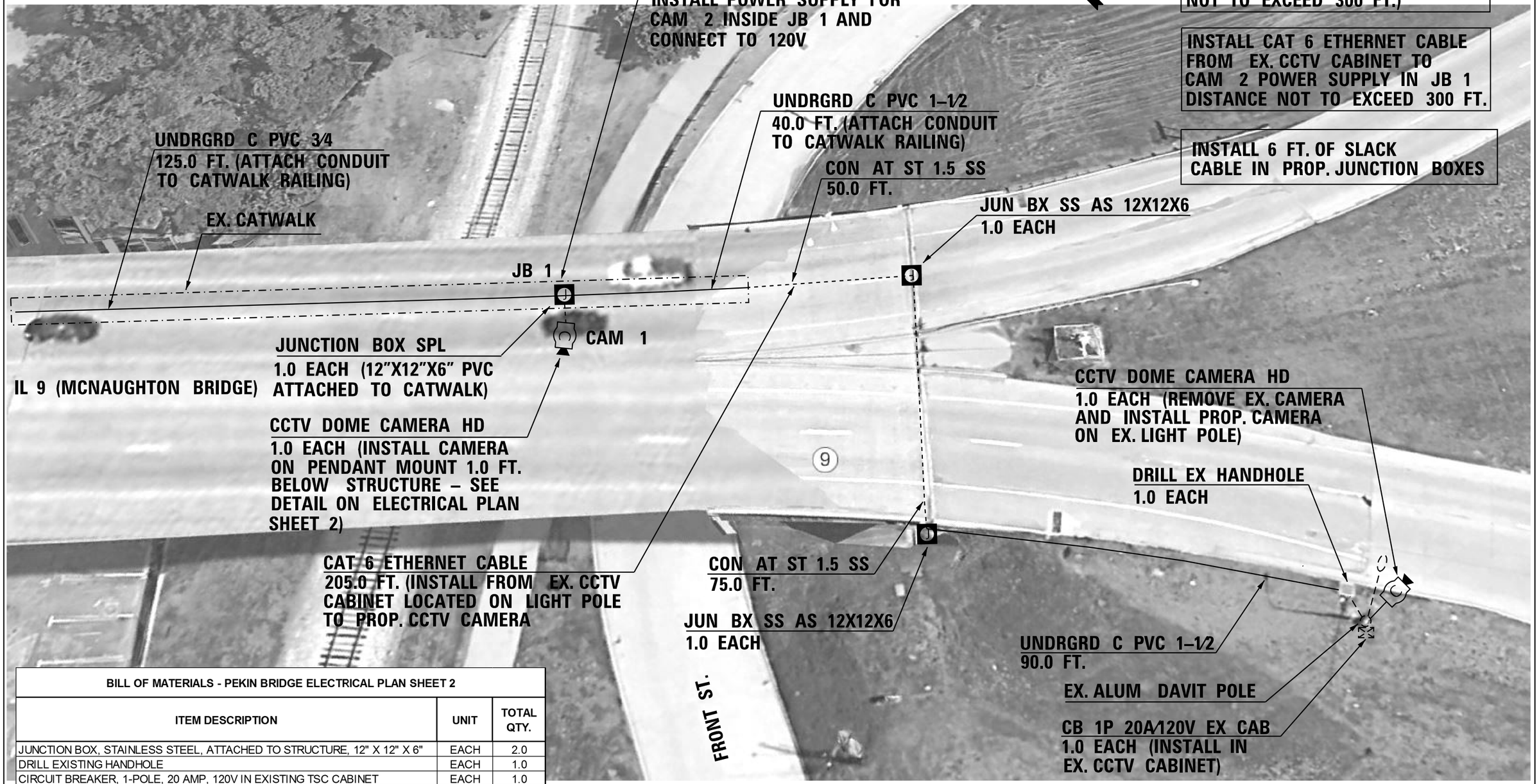
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
	- Final Plans\68E79 - Pekin Bridge Lighting, RWIS, ITS (Revised 6-25-20).dgn	DRAWN	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITES FOR PROPOSED ELECTRICAL WORK AND CONSTRUCTION NOTES

SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	64
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	



BILL OF MATERIALS - PEKIN BRIDGE ELECTRICAL PLAN SHEET 2		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	2.0
DRILL EXISTING HANDHOLE	EACH	1.0
CIRCUIT BREAKER, 1-POLE, 20 AMP, 120V IN EXISTING TSC CABINET	EACH	1.0
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	125.0
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	130.0
CAT. 6 ETHERNET CABLE	FOOT	732.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	2.0
CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., STAINLESS STEEL	FOOT	125.0
JUNCTION BOX (SPECIAL)	EACH	1.0

NOT TO SCALE
ELECTRICAL SHEET 2 OF 22

FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
	- Final Plans\68E79 - Pekin Bridge Lighting, CCTV, ITS (Revised 6-25-20).dgn	DRAWN -	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CCTV CAMERA AND LIGHTING CONTROLLER UPGRADES
PEKIN BRIDGE – PEORIA COUNTY

SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	65
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

INSTALL 6 FT. OF SLACK CABLE IN PROP. JUNCTION BOXES

JUNCTION BOX SPL
1.0 EACH (6" X 6" PVC ATTACHED TO CATWALK RAILING)

INSTALL 6 FT. OF SLACK CABLE IN PROP. JUNCTION BOX

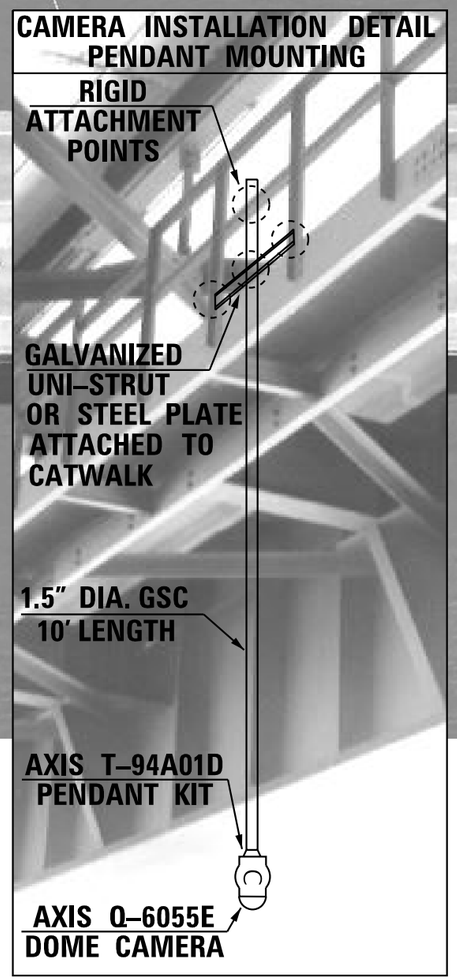
CAT 6 ETHERNET CABLE
300.0 FT. (INSTALL FROM PROP. JUNCTION BOX

UNDRGRD C PVC 3/4
300.0 FT. (ATTACH CONDUIT TO CATWALK RAILING)

UNDRGRD C PVC 3/4
175.0 FT. (ATTACH CONDUIT TO CATWALK RAILING)

EX. CATWALK

CAMERA INSTALLATION DETAIL
PENDANT MOUNTING



IL 9 (MCNAUGHTON BRIDGE)

Pekin Bridge

Margaret St

CCTV CAMERA EQUIPMENT
1.0 EACH (INSTALL AXIS T8129–E POE EXTENDER INSIDE PROP. JUNCTION BOX DISTANCE NOT TO EXCEED 300 FT FROM POWER SUPPLY IN JB 1

CAT 6 ETHERNET CABLE
175.0 FT. (INSTALL FROM CAMERA POWER SUPPLY IN JB 1 TO JB 2

CCTV DOME CAMERA HD
1.0 EACH (INSTALL CAMERA ON PENDANT MOUNT BELOW STRUCTURE TO VIEW RIVER CHANNEL)

THE CONTRACTOR SHALL FURNISH AND INSTALL A RIGID CAMERA MOUNTING BRACKET FOR BOTH PENDANT MOUNTED CAMERAS. ALL COMPONENTS SHALL BE GALVANIZED STEEL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE CAMERA.

BILL OF MATERIALS - PEKIN BRIDGE ELECTRICAL PLAN SHEET 3

ITEM DESCRIPTION	UNIT	TOTAL QTY.
CAT. 6 ETHERNET CABLE	FOOT	491.0
CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT	EACH	1.0
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	475.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0
JUNCTION BOX (SPECIAL)	EACH	1.0

NOT TO SCALE
ELECTRICAL SHEET 3 OF 22

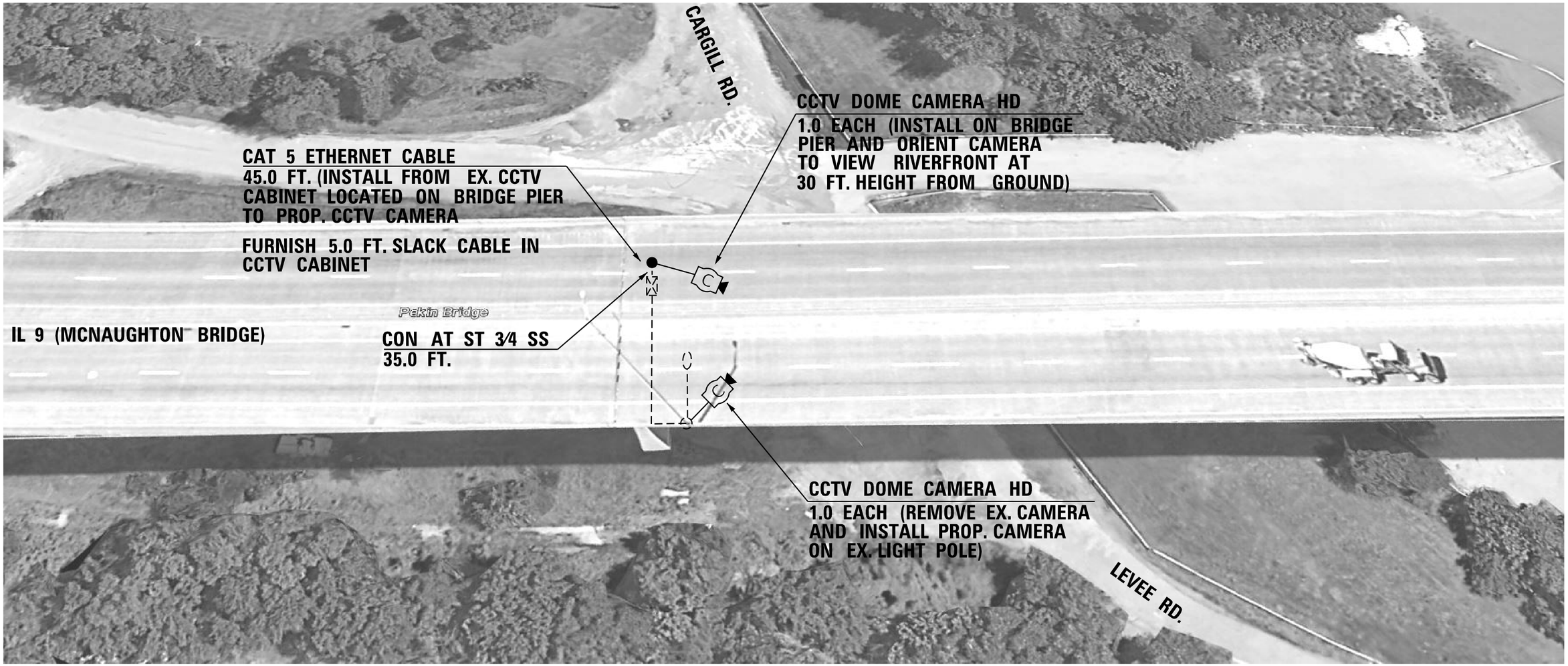
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79 - Final Plans\68E79 - Pekin Bridge Lighting, Power, ITS (Revised 6-25-20).dgn	USER NAME = HOWALDER	DESIGNED -	REVISED -
		DRAWN	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CCTV CAMERA AND LIGHTING CONTROLLER UPGRADES
PEKIN BRIDGE – PEORIA COUNTY

SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	66
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		



BILL OF MATERIALS - PEKIN BRIDGE ELECTRICAL PLAN SHEET 4		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
CAT. 6 ETHERNET CABLE	FOOT	45.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	2.0
CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA. STAINLESS STEEL	FOOT	35.0

NOT TO SCALE

ELECTRICAL SHEET 4 OF 22

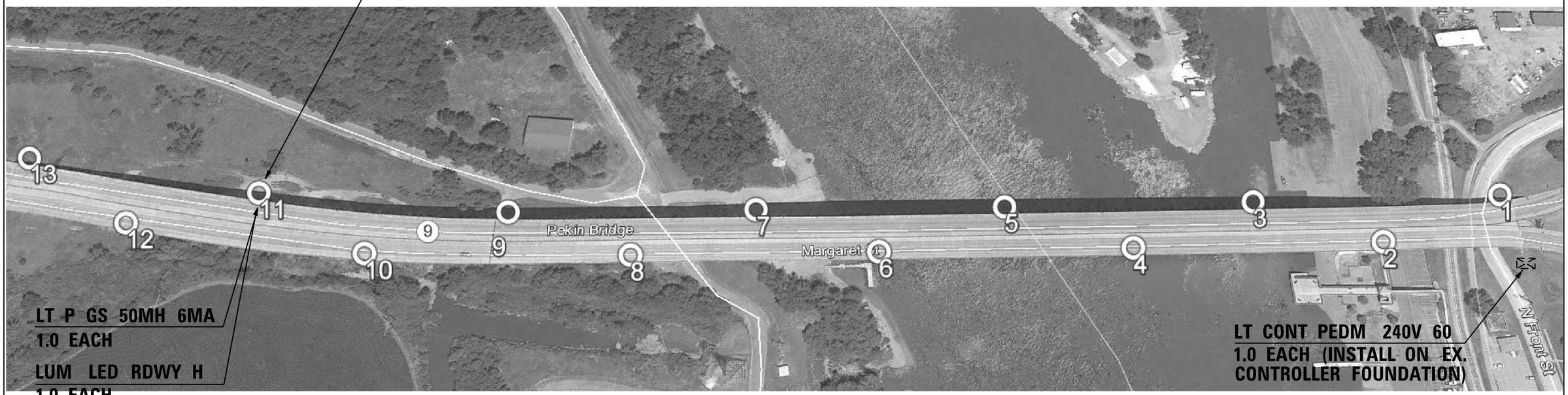
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
	- Final Plans\68E79 - Pekin Bridge Lighting, ITS (Revised 6-25-20).dgn	DRAWN -	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CCTV CAMERA UPGRADES
PEKIN BRIDGE – TAZEWELL COUNTY

SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	67
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	



BILL OF MATERIALS - PEKIN BRIDGE ELECTRICAL PLAN SHEET 5		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	1.0
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1.0
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 6 FT. MAST ARM	EACH	1.0
ROADWAY LIGHTING MODIFICATIONS	L SUM	1.0

THE CONTRACTOR SHALL FURNISH AND INSTALL LIGHT POLE PROTECTION SLEEVES ON ALL EXISTING AND PROPOSED LIGHT POLES TO PROVIDE PROTECTION FROM SNOW PLOW BLADE IMPACTS. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "ROADWAY LIGHTING MODIFICATIONS". REFER TO ELECTRICAL SHEET 10 FOR DETAILS.

NOT TO SCALE
ELECTRICAL SHEET 5 OF 22

FILE NAME =	USER NAME = HOWALDER	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED OVERHEAD LIGHTING IMPROVEMENTS
PEKIN BRIDGE

SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	68
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

SECTION NO.	ROUTE	COUNTY	TOTAL SHEETS	SHEET NO.
693	12L	PEORIA-TAZEWELL	9	1
FED. ROAD DIST. NO.		PROJECT		

P-94-114-71

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

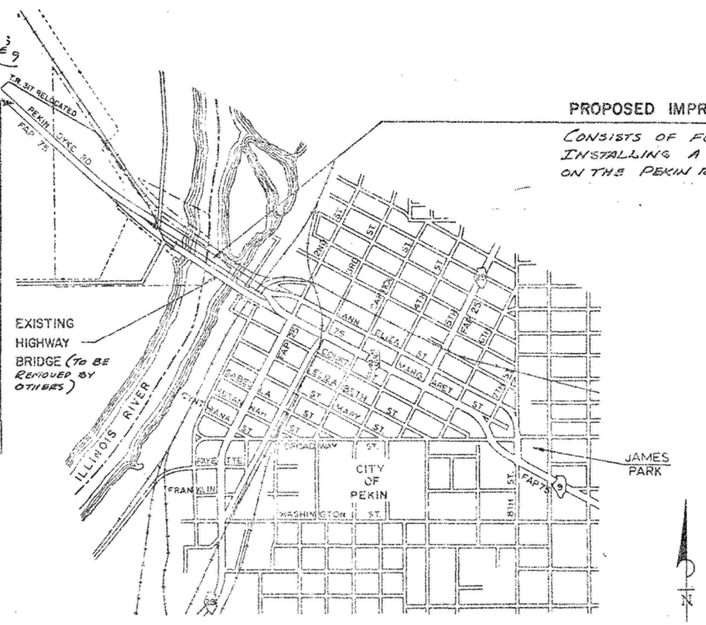
F.A. ROUTE 693
SECTION 12L
PEORIA - TAZEWELL COUNTIES
PROJECT BR-F-693(19)

C-94-113-81

SHEET NO.	INDEX OF SHEETS
1	COVER SHEET
2	GENERAL PLAN & ELEVATION
3-5	SUPERSTRUCTURE DETAILS
6&7	CONDUIT DETAILS @ EAST ABUTMENT
8	CONTROL INSTALLATION & CONDUIT DETAILS
9	POLE STANDARDS

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTALS	PEORIA CO.	TAZEWELL CO.
L00006	CONDUIT IN TRENCH 2" DIA, GALVANIZED STEEL	LIN FT	70	—	70
L00056	CONDUIT ATTACHED TO STRUCTURE 2" DIA. GALVANIZED STEEL	LIN FT	130	—	130
L05493	CONTROL INSTALLATION, TYPE CB-RC3-60-240	EACH	1	—	1
L04300	TRENCH AND BACKFILL	LIN FT	70	—	70
L05180	ELECTRIC CONDUCTOR (BARE ANNEALED COPPER) NO. 6	LIN FT	5978	3675	2303
X04649	LAMP 400 WATT HPS	EACH	13	8	5
L06169	LUMINAIRE, RECTILINEAR, TYPE: 400 WATT HPS	EACH	13	8	5
L05728	POLE, METAL 50 FT. MH, 6 FT. MAST ARM	EACH	13	8	5
X04748	MOBILIZATION	LUMP SUM	1	0.6	0.4
L05666	ELECTRIC CABLE IN CONDUIT, 600V(XLP-TYPE USE) 1/c # 6	LIN FT	10526	6470	4056
X04846	ELECTRIC CABLE IN CONDUIT 600V(XLP-USE) 1/C #12	LIN FT	1430	880	550



PROPOSED IMPROVEMENT

CONSISTS OF FURNISHING AND INSTALLING A LIGHTING SYSTEM ON THE PEKIN RIVER BRIDGE

ALL REFERENCES TO F.A.P. ROUTE 75 REVISED TO F.A. ROUTE 693.

LIST OF STANDARDS

1686-4 SYMBOLS AND ABBREVIATIONS

2298-5 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2299-8 DESIGN OF TRAFFIC CONTROL DEVICES
2300-2 FLAGMAN TRAFFIC CONTROL SIGN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 6-5-81 — DISTRICT ENGINEER
EXAMINED 7/23/1981 — PLANS AND CONTRACTS
PASSED 7/23/1981 — ENGINEER OF DESIGN
APPROVED 7/23/1981 — DIRECTOR OF HIGHWAYS

NOTE:
Wherever in these plans reference is made to F.A. Route 75, it shall be interpreted to mean F.A. Route 693.

FOR INFORMATION ONLY

NOT TO SCALE

Revised ELECTRICAL SHEET 6 OF 22

FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
IL 9 – MCNAUGHTON BRIDGE (PEKIN)

SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	69
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 693	12L	PEORIA - TAZEWELL	9	5
FED. ROAD DIV. NO.		ILLINOIS PROJECT		

Bench Mark Location
Top of N.E. Abutment of Railroad Bridge Over Illinois River - Elev. 459.14

CURVE DATA
P.I. Sta. 85+41.91
P.C. Sta. 82+60.12
P.T. Sta. 88+21.52
Δ = 9°-49'-23.1"
D = 1°-45'
R = 3274.04'
T = 281.39'
L = 561.40'
S.E. = .05'/ft.

WESTBOUND CURVE DATA
P.I. Sta. 105+42.49
P.C. Sta. 104+10.01
P.T. Sta. 106+70.50
Δ = 25°-36'-09"
D = 9°-49'-40"
R = 583.00'
T = 132.46'
L = 260.49'
S.E. = .04'/ft.

EASTBOUND CURVE DATA
P.I. Sta. 104+89.50
P.C. Sta. 104+10.04
P.T. Sta. 103+67.99
Δ = 15°-31'-22"
D = 9°-49'-40"
R = 583.00'
T = 79.46'
L = 157.95'
S.E. = .04'/ft.

Bk. W. Abut. Sta. 78+35 P.G. Elev. 478.01
℄ Pier 2 Sta. 80+74 P.G. Elev. 488.63
℄ Pier 3 Sta. 82+93 P.G. Elev. 499.13
℄ Pier 4 Sta. 85+12 P.G. Elev. 509.81
℄ Pier 5 Sta. 87+31 P.G. Elev. 518.88
℄ Pier 6 Sta. 89+50 P.G. Elev. 513.01
℄ Pier 7 Sta. 93+35 P.G. Elev. 518.76
℄ Pier 8 Sta. 98+85 P.G. Elev. 518.62
℄ Pier 9 Sta. 102+70 P.G. Elev. 501.53
℄ W.B. Sta. 103+29.01
Struct. Sta. 103+25.00
℄ E.B. Sta. 103+29.04
℄ W.B. El. 496.00
Struct. El. 492.89
℄ E.B. El. 498.00
Bk. E. Abut. Sta. 104+89.01 P.G. Elev. 490.13
Name Plate
℄ W.B.
24'
℄ E.B.
Bk. E. Abut. Sta. 104+89.04 P.G. Elev. 490.13
Proposed Control Installation
Existing Service Pole
℄ W.B. P.C. Sta. 104+10.01
℄ E.B. P.C. Sta. 104+10.04
Pt. of Min. Vert. Cl.
℄ Structure, ℄ F.A. 75 and ℄ Survey
184.04'
P.C. Sta. 82+60.12
P.T. Sta. 88+21.52
TR 317 Relocated
Existing Highway Structure to be Removed
BRIDGE LIGHT LOCATIONS
Existing 9' Contour
Illinois River
Flood Levee
392'
450'
P. & P.U.R.R. & CONRAIL

PLAN
Scale: 1" = 100'-0"

Bridge Omission 78+55.5 - 104+88.5

Approach Slab by others
60'
1095'-0" West Approach
4 Spans @ 219'-0" = 876'-0"
219'-0"
385'-0"
1320' Main River Spans
530'-0"
385'-0"
219'-0" East Approach
Approach Slab 60' by others
Dimensions along ℄ Rdwy.
2-1"Φ x 3'-6" Anchor Bolts by Bridge Contractor for Guardrail (Typ.) Metal Guardrail and Post by others
Subgrade Elev.
Const. Slope
P.V.C. 85+00
El. 509.29
+4.85%
P.V.I. 93+00
El. 548.09
℄ Span
50'
P.V.T. 101+00
El. 509.69
-4.80%
Embankment backfill by Bridge Contr. after Abut. is in place
Exp. Span 1 El. 440.00 Est. L. = 109' Steel H
Exp. Span 2 El. 442.00 Est. L. = 104' Steel H P-2
Fix Span 3 El. 442.00 Est. L. = 63' Cast-in-Place P-3
Exp. Span 4 El. 441.00 Est. L. = 64' Cast-in-Place P-4
Exp. Span 5 El. 438.00 Est. L. = 73' Cast-in-Place P-5
Exp. Span 6 El. 448.00 Est. L. = 101' Steel H P-6
Existing Ground Line
Exp. Span 7 El. 510.57 El. 407.00 Est. L. = 63' Steel H P-7
2% Line El. 445.9
Normal Pool Elev. 429.9
Type of Pile and Estimated Lengths as shown
Steel H - HP 14 x 117
Cast-in-Place - Metal Pile Shell 14"Φ
Exp. Span 8 El. 407.00 Est. L. = 75' Steel H P-8
Fix Low St. El. 496.1 Span 8
Flood Elev. 452.3
Exp. Span 9 El. 439.00 Est. L. = 110' Steel H P-9
8'-0" Ft. L.S.
℄ E.B. ℄ P.U.R.R.
91.5' ℄ Rt. L.S.
Est. L. = 143' Steel H
* Slope 2:1
℄ Front St.
℄ CONRAIL R.R.
Embankment backfill by Bridge Contr. after Abut. is in place
** Hydraulic Fill Slope 3:1 Cohesive Fill Slope 2:1

PROFILE - ROUTE ILL - 9

DESIGN LOADS
Live Load HS20-44
Future W.S. .25 psf

DESIGN STRESSES
fy = 60,000 psi (Reinforcement - Substructure, Deck, Curbs, Parapet & Medians Load Factor Design)
fb = 27,000 psi (Structural Steel M-222 - Unpainted) up to 4" Thickness Inclusive: (Except for Bearings and Pins)
fb = 3500 psi (Substructure, Deck, Curbs, Parapet & Medians)

FOR INFORMATION ONLY

10'-0" at Rt. L.S. Slope 4:1/Ft.
8'-0"
6"
Poured against Undisturbed Embankment

SECTION THRU EAST SLOPEWALL
Edge of Deck 3'-0"
8'-0"
6"
SEC. A-A
West Rail
East Rail
℄ Front St.
℄ W.B.
℄ E.B.
℄ Rte 9
1400 0475 0150 0425 0 0425 0150 0475 1400
North South
PROFILE - FRONT STREET
PROFILE - P & P.U. RAILROAD
PROFILE - CONRAIL RAILROAD

STATION 96+50
BUILT IN BY
STATE OF ILLINOIS
FAP RTE 693 SEC. 12B
F.A. PROJ. BR-F-193(15)
LOADING HS20
NAME PLATE
(See Sht. 6 of 9)

Waterway Information
Drainage Area 12,000 sq. miles TTN ATE 4PM
Q(100) 87,000 cfs
Opening (Req'd.) 22,300 sq. ft.
Opening (Proposed) 27,510 sq. ft. *
Q(50) 78,000 cfs +
* Controlled by other than hydraulic considerations.
+ Below HW Elev. 455.2

N
Proposed Structure
T28N R5W 3PM
LOCATION PLAN

SUBMITTED JULY 5, 1991
DATE DESIGN ENGR.
EXAMINED
DIST. CONST. ENGR.
EXAMINED
DIST. MAINT. ENGR.
EXAMINED
DIST. TRAFFIC ENGR.
Entire section examined and approved as to policy.
DATE 6-5-91
DISTRICT ENGINEER

APPROVED
Carl E. Thunderman
DIRECTOR OF HIGHWAYS

REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
PROJECT: F-156
ILL. 9 over ILLINOIS RIVER
F.A.P. 75 SECTION 12D
PEORIA - TAZEWELL COUNTIES
STA. 96+50

THE ENGINEERS COLLABORATIVE
CHICAGO ILLINOIS

NOT TO SCALE
ELECTRICAL SHEET 7 OF 22

FILE NAME =	USER NAME = HOWALDER	DESIGNED -	REVISED -
O:\common\GEN\Transfer - bureaus\68E79	- Final Plans\68E79 - Pekin Bridge Lighting, PHASE II TS (Revised 6-25-20).dgn	DRAWN	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
IL 9 – MCNAUGHTON BRIDGE (PEKIN)
SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR, BDR, BJR	TAZEWELL	92	70
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		

THE CONTRACTOR SHALL FURNISH AND INSTALL STAINLESS STEEL CONDUIT AND JUNCTION BOXES AS REQUIRED TO CONNECT PAVEMENT SENSORS TO PROPOSED RWIS CONTROL CABINET

THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING CONDUIT ROUTING AND JUNCTION BOX PLACEMENT. REFER TO SPECIAL PROVISION FOR ADDITIONAL DETAILS

ALL HOLES IN BRIDGE DECK SHALL BE CORE DRILLED TO ACCOMODATE PROPOSED RWIS SENSORS

UP RPU EQ COM RWISS
1.0 EACH

IL 9 (MCNAUGHTON BRIDGE)

9

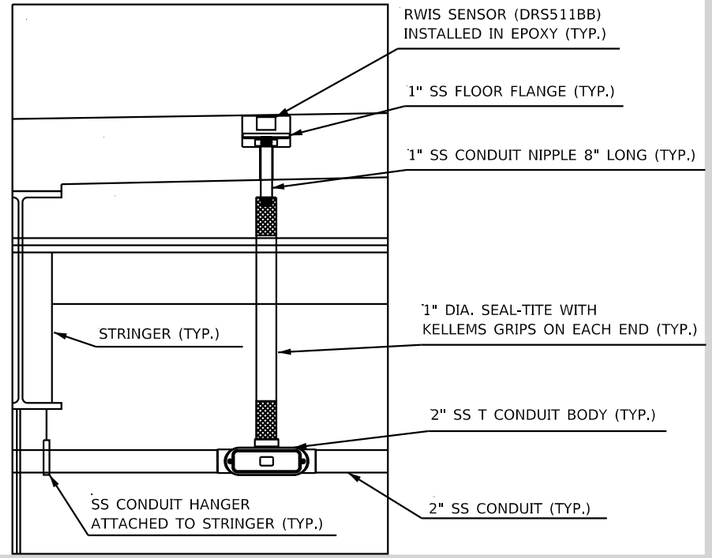
FRONT ST.

REPLCMT SENSORS RWIS
1.0 LUMP SUM (INCLUDES SENSORS, CONDUIT, FITTINGS, WIRING, ETC. – SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

BILL OF MATERIALS - PEKIN BRIDGE ELECTRICAL PLAN SHEET 8

ITEM DESCRIPTION	UNIT	TOTAL QTY.
REPLACEMENT OF SENSORS FOR ROADWAY WEATHER INFORMATION SYSTEM	L SUM	1.0
UPGRADE RPU EQUIPMENT AND COMMUNICATIONS AT RWIS SITE	EACH	1.0

RWIS PAVEMENT SENSOR INSTALLATION DETAIL



NOT TO SCALE
ELECTRICAL SHEET 8 OF 22

FILE NAME = O:\common\GEN\Transfer - bureaus\68E79 - Final Plans\68E79 - Pekin Bridge Lighting, RWIS, ITS (Revised 6-25-20).dgn	USER NAME = HOWALDER	DESIGNED -	REVISED -
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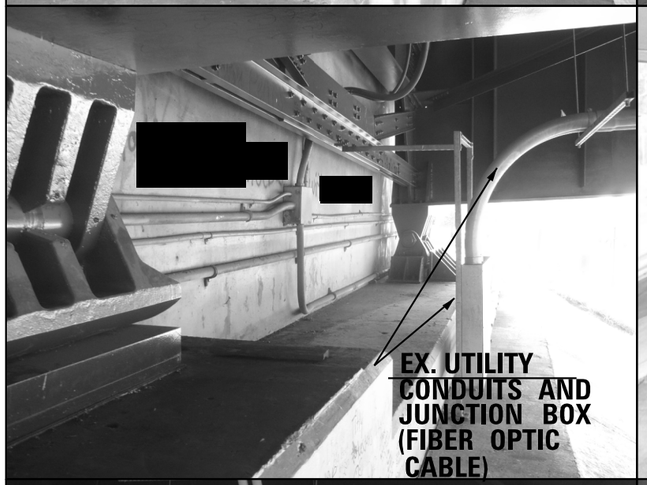
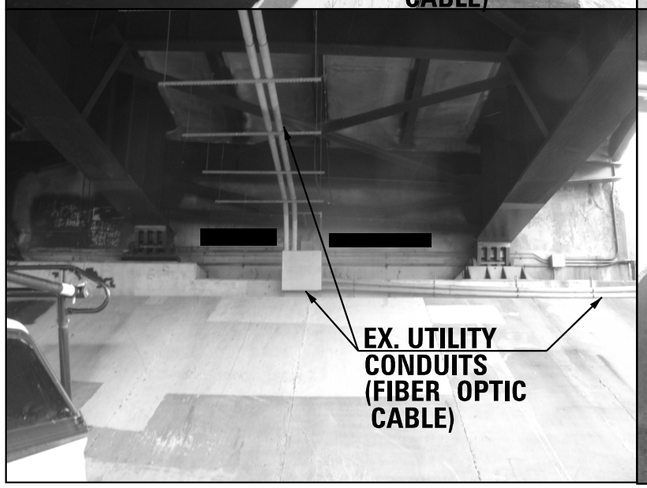
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

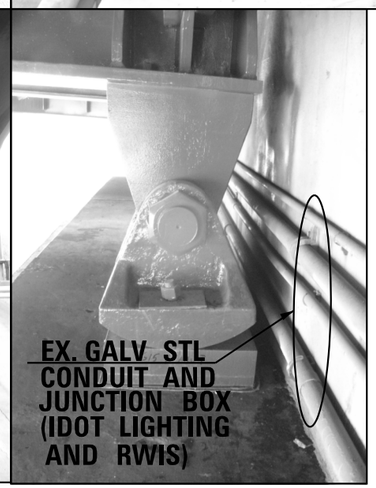
PROPOSED RWIS IMPROVEMENTS
PEKIN BRIDGE – PEORIA COUNTY
SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	71
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		

EXISTING CONDUITS ATTACHED TO EAST ABUTMENT (TAZEWELL COUNTY)







THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CONDUIT, SEAL TITE, JUNCTION BOXES, WIRING, AND ALL OTHER ITEMS REQUIRED TO TEMPORARILY RELOCATE THE WIRING FOR THE IDOT BRIDGE LIGHTING AND RWIS FACILITIES PRIOR TO BRIDGE BEARING REPLACEMENT. THE CONTRACTOR SHALL INSTALL SCHEDULE 80 PVC CONDUIT AND ASSOCIATED WIRING ALONG THE BACK OF THE ABUTMENT CAP TO FACILITATE THE INSTALLATION OF THE PROPOSED CONCRETE PEDESTALS (BRIDGE SEATS) AND POT BEARINGS. THE CONTRACTOR SHALL INSTALL TEMPORARY ELECRICAL CABLING AS REQUIRED TO MAINTAIN OVERHEAD LIGHTING AND RWIS OPERATION. ALL TEMPORARY SPLICES SHALL BE ENCLOSED IN WEATHERPROOF PVC JUNCTION BOXES AND ALL WORK SHALL CONFORM TO NEC REQUIREMENTS. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL INVENTORY THE CONDUITS AND CONDUCTORS TO DETERMINE THE OPTIMUM METHOD TO INSTALL TEMPORARY FACILITIES . THE CONTRACTOR SHALL FURNISH SLACK CABLE AS NEEDED TO ACCOMODATE THE PROPOSED BEARING REPLACEMENT WORK. THE TEMPORARY FACILITIES WILL REMAIN IN USE UNTIL THE BEARING REPLACEMENT HAS BEEN COMPLETED FOR THE ENTIRE ABUTMENT. THE CONTRACTOR SHALL OBTAIN LOCATION VERIFICATION FROM THE RESIDENT ENGINEER PRIOR TO COMMENCING WORK TO ENSURE THAT THE TEMPORARY CONDUIT, JUNCTION BOXES, AND WIRING WILL NOT INTERFERE WITH THE PROPOSED BRIDGE CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM FOR "MISCELLANEOUS ELECTRICAL WORK".

IN THE EVENT THAT THE EXISTING UTILITY CONDUITS AND JUNCTION BOXES (CONTAINS FIBER OPTIC CABLES) ARE IN CONFLICT WITH THE PROPOSED BRIDGE BEARING REPLACEMENT, THE CONTRACTOR SHALL PROVIDE PROTECTION FOR THE THESE FACILITIES AND TEMPORARILY REPOSITION OR RELOCATE THEM AS DIRECTED BY THE RESIDENT ENGINEER TO ACCOMMODATE THE PROPOSED BRIDGE CONSTRUCTION. THIS WORK WILL BE CONSIDERED EXTRA WORK IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS (PAYMENT FOR EXTRA WORK).

UPON COMPLETION OF THE BEARING REPLACEMENT WORK ALONG THE ENTIRE ABUTMENT, THE CONTRACTOR SHALL INSTALL THE PERMANENT CONDUITS AND JUNCTION BOXES ALONG THE BACK WALL AND SIDES OF THE ABUTMENT AS REQUIRED TO RESTORE OPERATION OF THE IDOT OVERHEAD LIGHTING AND RWIS FACILITIES. THE CONTRACTOR SHALL WORK WITH THE DEPARTMENT TO DETERMINE THE OPTIMUM CONDUIT LAYOUT FOR THE PERMANENT FACILITIES AND INSTALL THE PROPOSED ITEMS IN THE LOCATIONS AS DIRECTED BY THE RESIDENT ENGINEER. THE COST OF THIS WORK WILL BE PAID FOR SEPARATELY UNDER THE ASSOCIATED PAY ITEMS FOR THE STAINLESS STEEL CONDUIT AND JUNCTION BOXES.

THE CONTRACTOR SHALL FURNISH AND INSTALL NON-METALLIC SEAL TIGHT, EXPANSION AND DEFLECTION COUPLINGS, BRACKETS, HARDWARE, AND ALL OTHER ITEMS REQUIRED FOR THE INSTALLATION OF THE PROPOSED STAINLESS STEEL CONDUIT AND JUNCTION BOXES. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE COST OF THE PROPOSED STAINLESS STEEL CONDUIT AND JUNCTION BOXES.

UPON INSTALLATION OF THE PERMANENT CONDUIT AND JUNCTION BOXES, THE CONTRACTOR SHALL INSTALL NEW ELECTRIC CABLES AND SPLICE THE PROPOSED CABLES INTO THE EXISTING CIRCUITS AS REQUIRED TO RESTORE FUNCTIONALITY. ALL SPLICES SHALL BE WEATHERPROOF AND MADE INSIDE THE PROPOSED STAINLESS STEEL JUNCTION BOXES. ALL METALLIC CONPONENTS SHALL BE GROUNDED AND ALL WORK SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS. ELECTRIC CABLING WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS (PAYMENT FOR EXTRA WORK).

REFER TO STRUCTURE PLAN SHEETS FOR ADDITIONAL INFORMATION IN REGARDS TO THE PROPOSED BRIDGE BEARING REPLACEMENT ON THE EAST ABUTMENT.

BILL OF MATERIALS - PEKIN BRIDGE ELECTRICAL PLAN SHEET 6

ITEM DESCRIPTION	UNIT	TOTAL QTY.
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., STAINLESS STEEL	FOOT	300.0
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 8"	EACH	2.0
MISCELLANEOUS ELECTRICAL WORK	L SUM	1.0

NOT TO SCALE
ELECTRICAL SHEET 9 OF 22

FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
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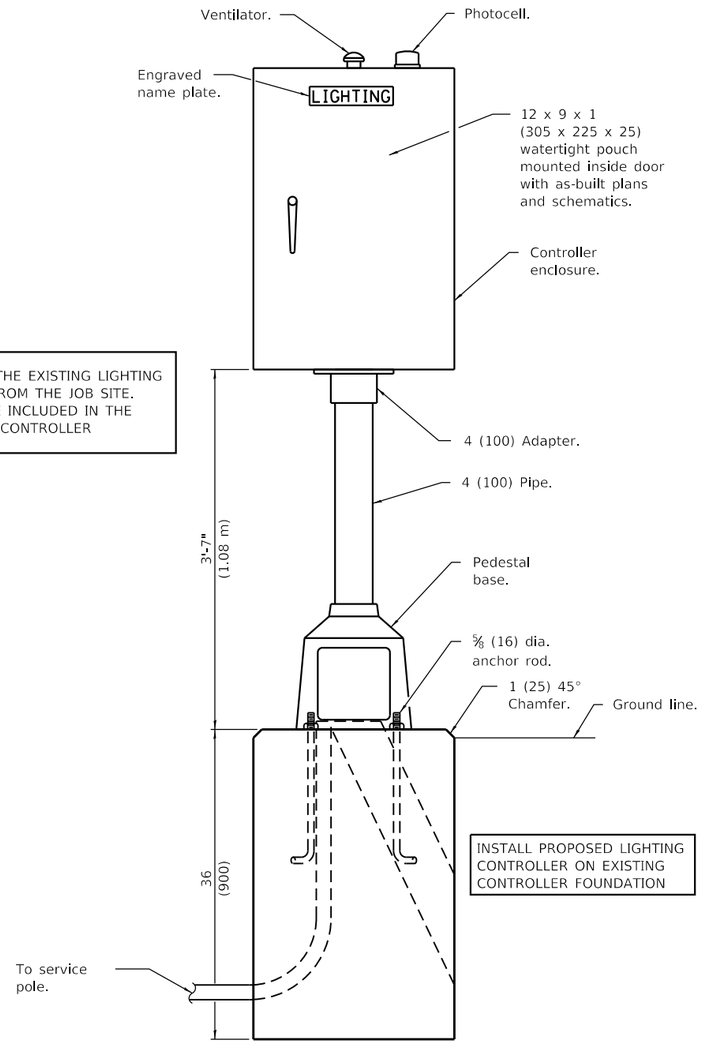
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CONDUIT ATTACHED TO EAST ABUTMENT
IL 9 – MCNAUGHTON BRIDGE (PEKIN)

SCALE: STA. TO STA.

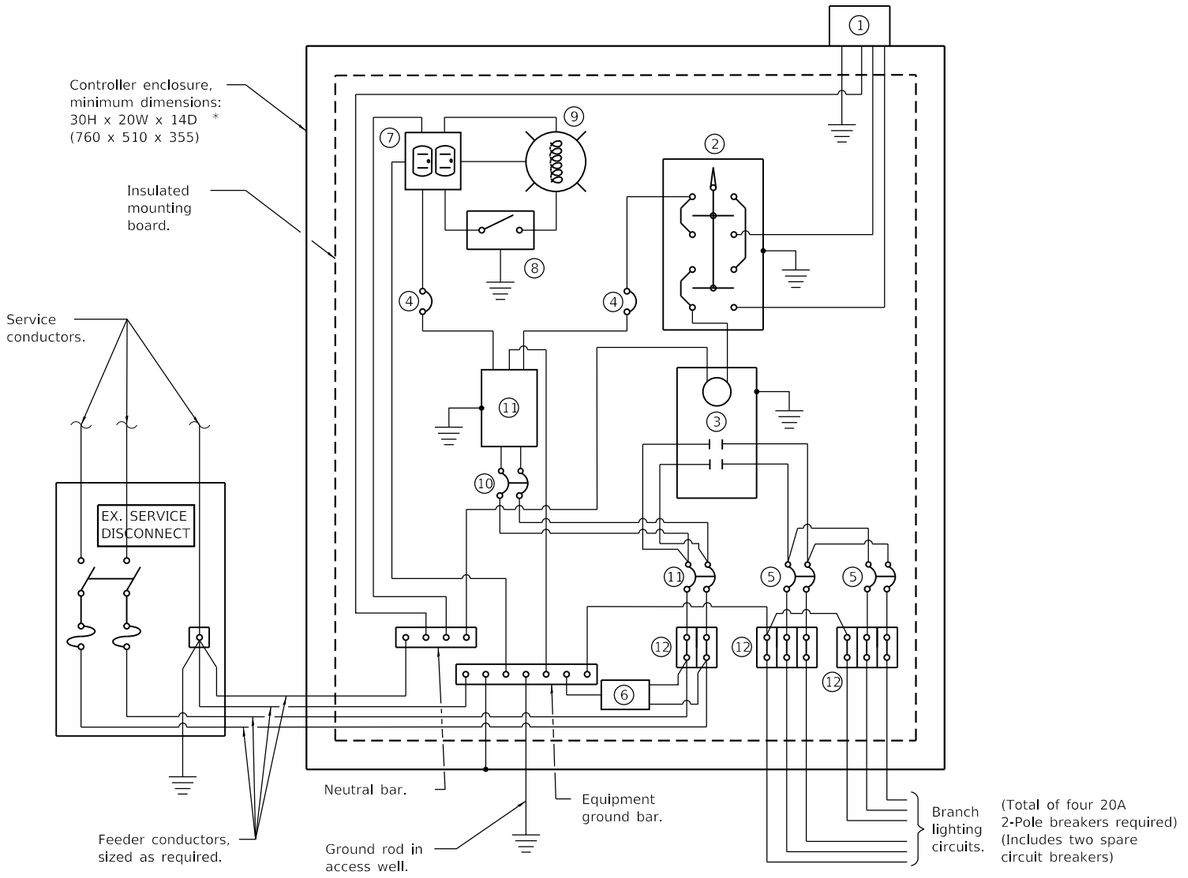
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	72
		CONTRACT NO. 68E79		
	ILLINOIS	FED. AID PROJECT		

THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHTING CONTROLLER AND DISPOSE OF IT FROM THE JOB SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED LIGHTING CONTROLLER



THE PROPOSED LIGHTING CONTROLLER WILL BE INSTALLED ON THE EXISTING CONTROLLER FOUNDATION

THE EXISTING SERVICE INSTALLATION WILL REMAIN IS USE WITH THE PROPOSED LIGHTING CONTROLLER



CONTROL SCHEMATIC

1. Photocell with integral surge arrester.
2. HAND-OFF-AUTO selector switch.
3. 60 amp, electrically held contactor.
4. 15 amp, 1-pole circuit breaker.
5. 20 amp*, 2-pole circuit breaker (two spares required but not shown).
6. Surge arrester.
7. GFCI duplex receptacle.
8. Single-pole, single-throw switch.
9. Light Fixture, enclosed and gasketted with 800 Lumen LED lightbulb.
10. 15 amp, 2-pole circuit breaker.
11. 60 amp*, 2-pole circuit breaker.
12. Terminal block sized for conductors as shown on plans.

All dimensions are in inches (millimeters) unless otherwise shown.

NOT TO SCALE
ELECTRICAL SHEET 10 OF 22

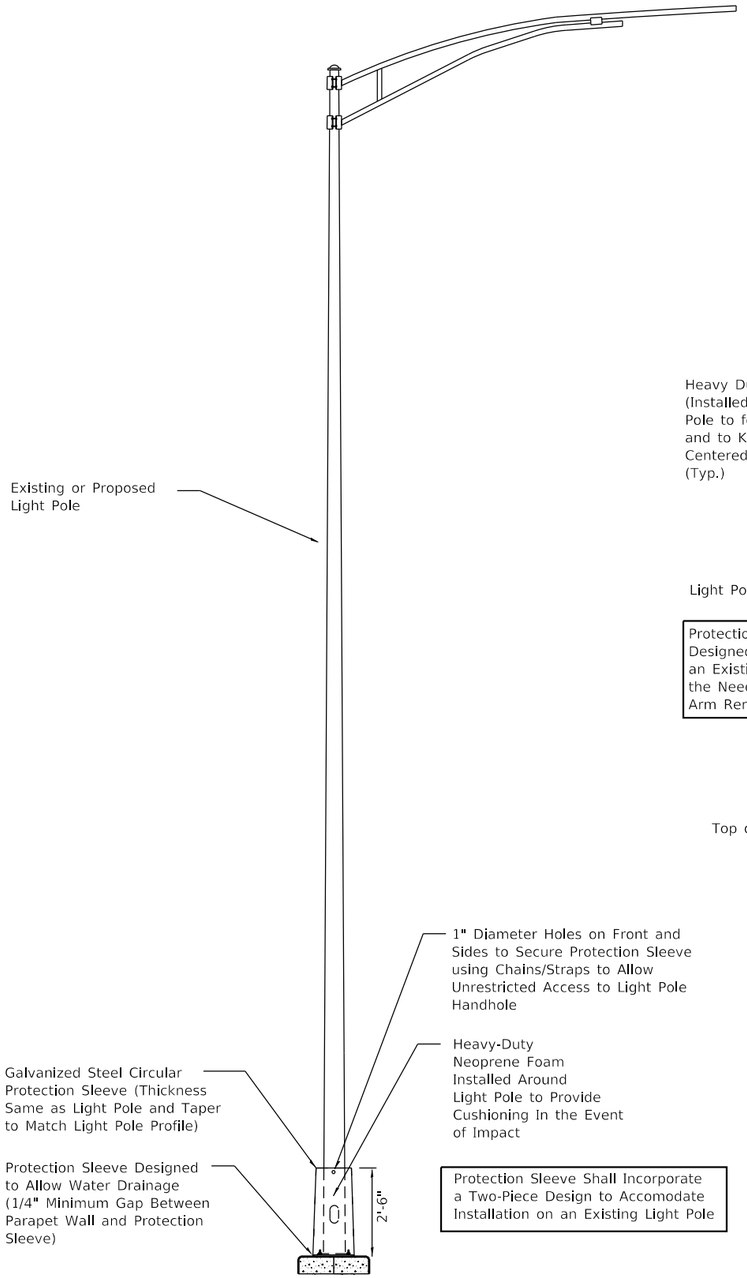
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79 - Final Plans\68E79 - Pekin Bridge Lighting, Roadway ITS (Revised 6-25-20).dgn	USER NAME = HOWALDER	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

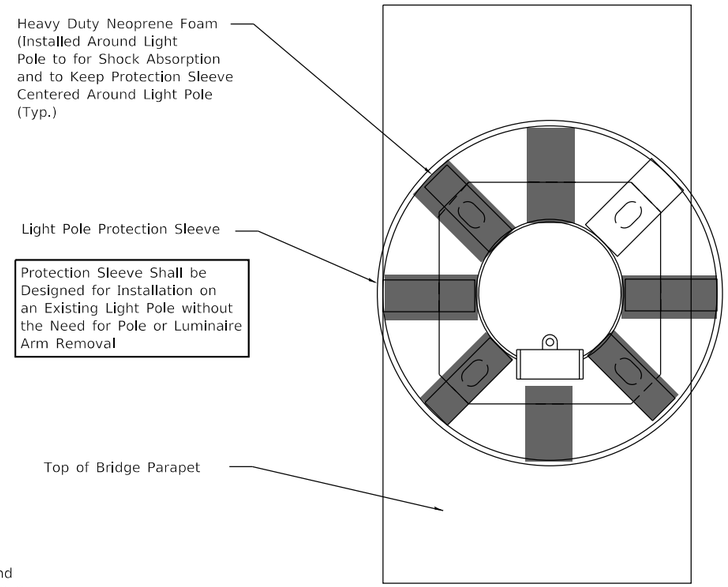
PROPOSED LIGHTING CONTROLLER DETAIL
PEKIN BRIDGE – PEORIA COUNTY

SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	73
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		



MAST ARM LIGHT POLE PROTECTION SLEEVE



GENERAL NOTES

Light pole protection sleeve to be installed prior to mast arm installation.

Light pole protection sleeve to be constructed from galvanized steel with the same thickness as the light pole shown on Highway Standard 830011.

Light pole protection sleeve sized as required to provide a three inch minimum clearance around the existing light pole and light pole base.

Light pole protection sleeve to be designed to allow for unrestricted access to the light pole handhole (designed to be lifted up and secured to allow access to handhole).

Light pole protection sleeve to have a three inch wide band of high visibility fluorescent yellow reflective tape (AZ sheeting) on top and bottom.

Install high quality outdoor rated neoprene foam (appropriately sized strips or cubes) inside protection sleeve around light pole to keep sleeve optimally centered and provide cushioning/shock absorption to protect light pole in the event of a vehicle or snow plow blade impact.

Light pole protection sleeve and cushioning material to be designed and installed to prevent accumulation of water inside protection sleeve.

Light pole protection sleeve to be designed for installation on an existing light pole without removing the pole or luminaire arm.

Contractor shall submit detailed drawings with catalog cut-sheets for all materials to the Department for review and approval prior to proceeding with fabrication.

NOT TO SCALE
ELECTRICAL SHEET 11 OF 22

FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
	- Final Plans\68E79 - Pekin Bridge Lighting, Roadway ITS (Revised 6-25-20).dgn	DRAWN -	REVISED -
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	PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE PROTECTION SLEEVE DETAIL

SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	74
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		

LIGHTING LEGEND:

- E — EXISTING ELECTRIC SERVICE
- PROPOSED ELECTRIC SERVICE
- E — EXISTING LIGHTING CONTROLLER
- PROPOSED TEMPORARY LIGHTING CONTROLLER
- E — EXISTING LIGHTING UNIT
- PROPOSED TEMPORARY LIGHTING UNIT, 50FT WOOD POLE, CLASS 3, WITH 15 FT. LUMINAIRE ARM AND LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H
- GUY WIRE ANCHOR
- PROPOSED AERIAL CABLE, SIZED AS NOTED
- PROPOSED DIRECT BURIED CABLE, SIZED AS NOTED
- PROPOSED COILABLE NONMETALLIC CONDUIT 2" DIA. LENGTH AS NOTED

BILL OF MATERIALS - PEKIN BRIDGE ELECTRICAL PLAN SHEETS 12-16

ITEM DESCRIPTION	UNIT	TOTAL QTY.
TEMPORARY LIGHTING SYSTEM	L SUM	1.0

GENERAL NOTES:

1. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
2. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBLITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UNDERGROUND FACILITIES WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
4. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
5. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 817.04.
6. ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 817.04.
7. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
8. GUYS WIRE ANCHORS ARE SHOWN AS AN EXAMPLE AND SHALL BE INSTALLED AS NECESSARY TO THE ENGINEERS SATISFACTION.
9. WOOD POLES WILL BE FURNISHED BY IDOT. THE CONTRACTOR SHALL PICK UP THE WOOD POLES FROM THE IDOT MAINTENANCE FACILITY LOCATED AT 6505 W US ROUTE 150, EDWARDS AND TRANSPORT THEM TO THE JOB SITE. THE CONTRACTOR SHALL DISPOSE OF THE WOOD POLES AT THE CONCLUSION OF THE PROJECT.
10. THE CONTRACTOR SHALL FURNISH 15 FT. LUMINAIRES ARMS AND INSTALL THEM ON THE IDOT FURNISHED WOOD POLES.
11. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE THE TEMPORARY LIGHTING SYSTEM IN ITS ENTIRETY WITH THE EXCEPTION OF THE UNDERGROUND WIRING. THE LIGHTING CONTROLLER AND LUMINAIRES WILL BECOME THE PROPERTY OF THE DEPARTMENT AND THE CONTRACTOR SHALL DELIVER THEM TO THE IDOT TRAFFIC BUILDING LOCATED AT 1025 WEST DETWEILLER DR., PEORIA. THE CONTRACTOR SHALL NOTIFY TONY BRIDSON (309) 671-4464 A MINIMUM OF FORTY EIGHT HOURS PRIOR TO MATERIAL DELIVERY.

CABLE/CONDUIT SCHEDULE:

- (A) AERIAL CABLE 2-1C NO. 6 WITH MESSENGER WIRE.
- (B) UNDERGROUND ELECTRIC CABLE, ALUMINUM, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND (XLP-TYPE USE) DIRECT BURIED.

HIGHWAY STANDARDS

** 825001-04	LIGHTING CONTROLLER POLE MOUNTED, 240V
830026-01	TEMPORARY ROADWAY LIGHTING

** TO BE USED FOR TEMPORARY LIGHTING CONTROLLER.

INDEX OF SHEETS

L-1 CABLE/CONDUIT SCHEDULE, GENERAL NOTES, HIGHWAY STANDARDS, INDEX OF SHEETS, LIGHTING LEGEND, AND BILL OF MATERIALS.

L-2 PROPOSED TEMPORARY LIGHT PLAN, STAGE 2

L-3 PROPOSED TEMPORARY LIGHT PLAN, STAGE 2

L-4 PROPOSED TEMPORARY LIGHT PLAN, STAGE 2

L-5 WIRING DIAGRAM AND LUMINAIRE PERFORMANCE TABLE.

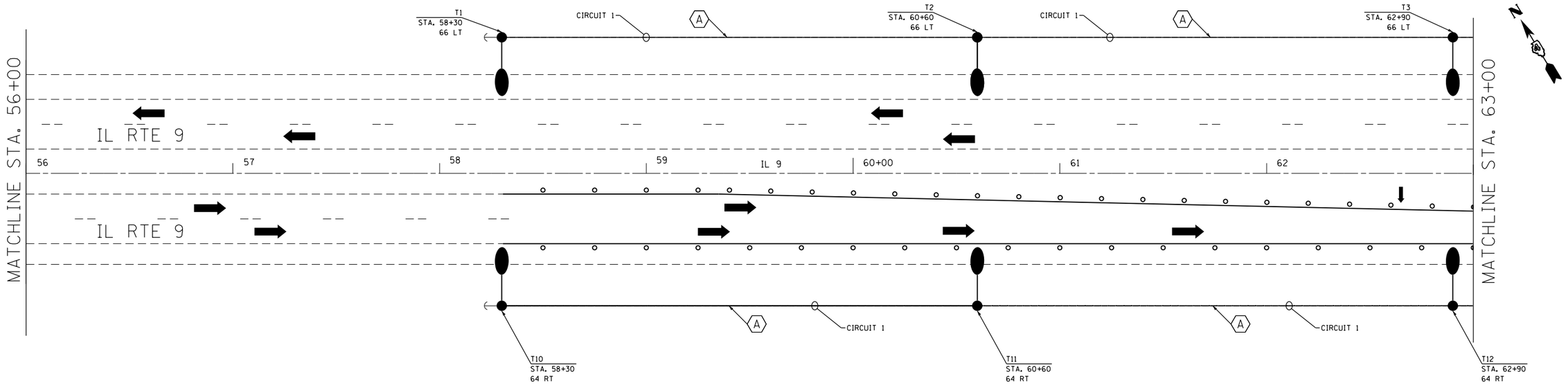
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
	- Final Plans\68E79 - Pekin Bridge Lighting, Pekin ITS (Revised 6-25-20).dgn	DRAWN	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

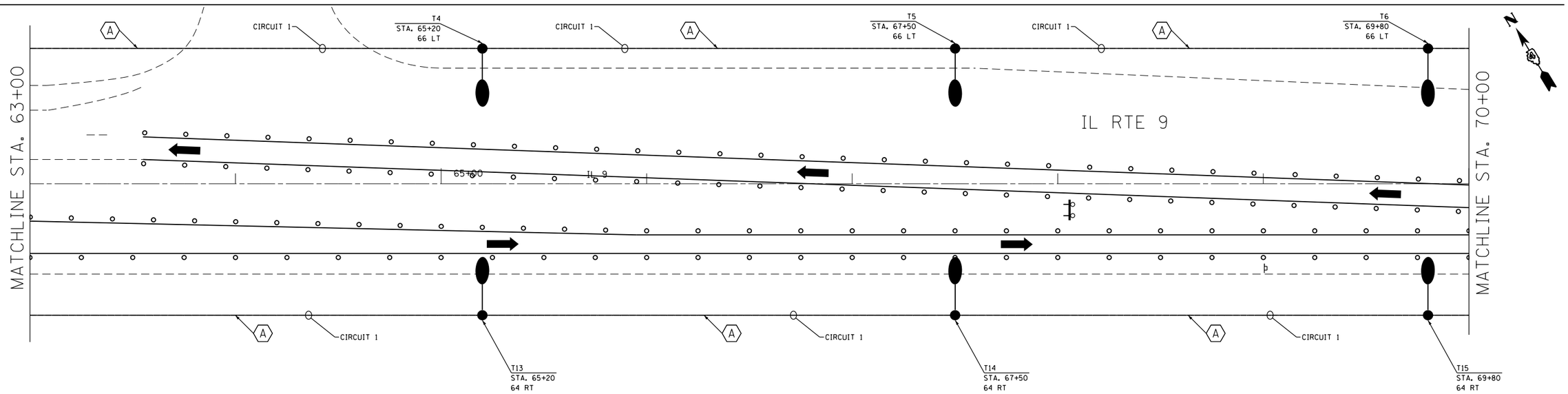
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN FOR CROSSOVER

SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	75
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	





NOTES:

1. TEMPORARY LIGHTING SHALL BE INSTALLED IN STAGE 1 AND REMOVED AFTER STAGE 3 OF CONSTRUCTION.

0 25 50
SCALE

L-2
NOT TO SCALE
ELECTRICAL SHEET 13 OF 22

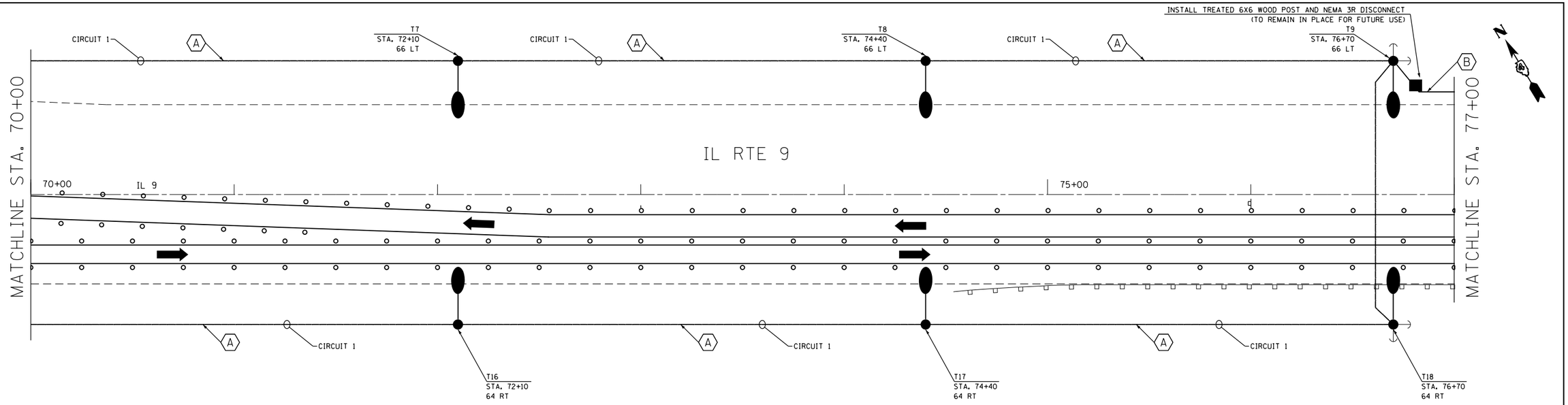
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79 - Final Plans\68E79 - Pekin Bridge Lighting, Fiber, ITS (Revised 6-25-20).dgn	USER NAME = HOWALDER	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

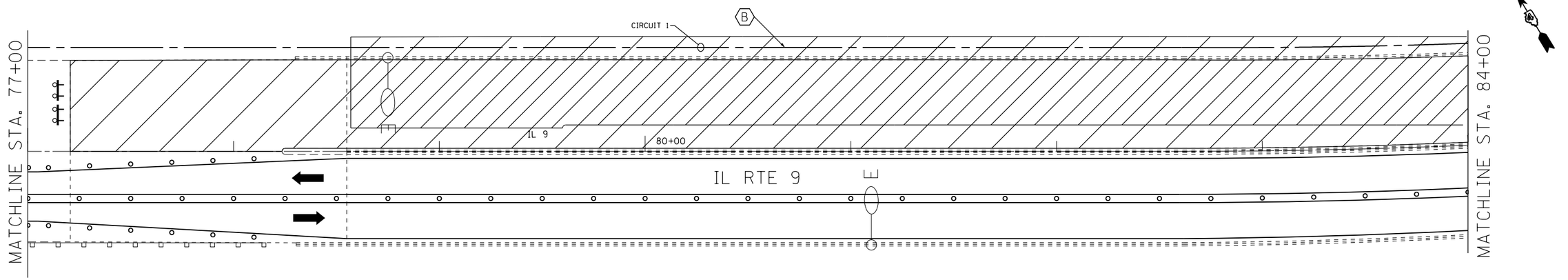
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TEMPORARY LIGHTING
STAGE 2

SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	76
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		





NOTES:

1. TEMPORARY LIGHTING SHALL BE INSTALLED IN STAGE 1 AND REMOVED AFTER STAGE 3 OF CONSTRUCTION.

0 25 50
SCALE

L-3
NOT TO SCALE
ELECTRICAL SHEET 14 OF 22

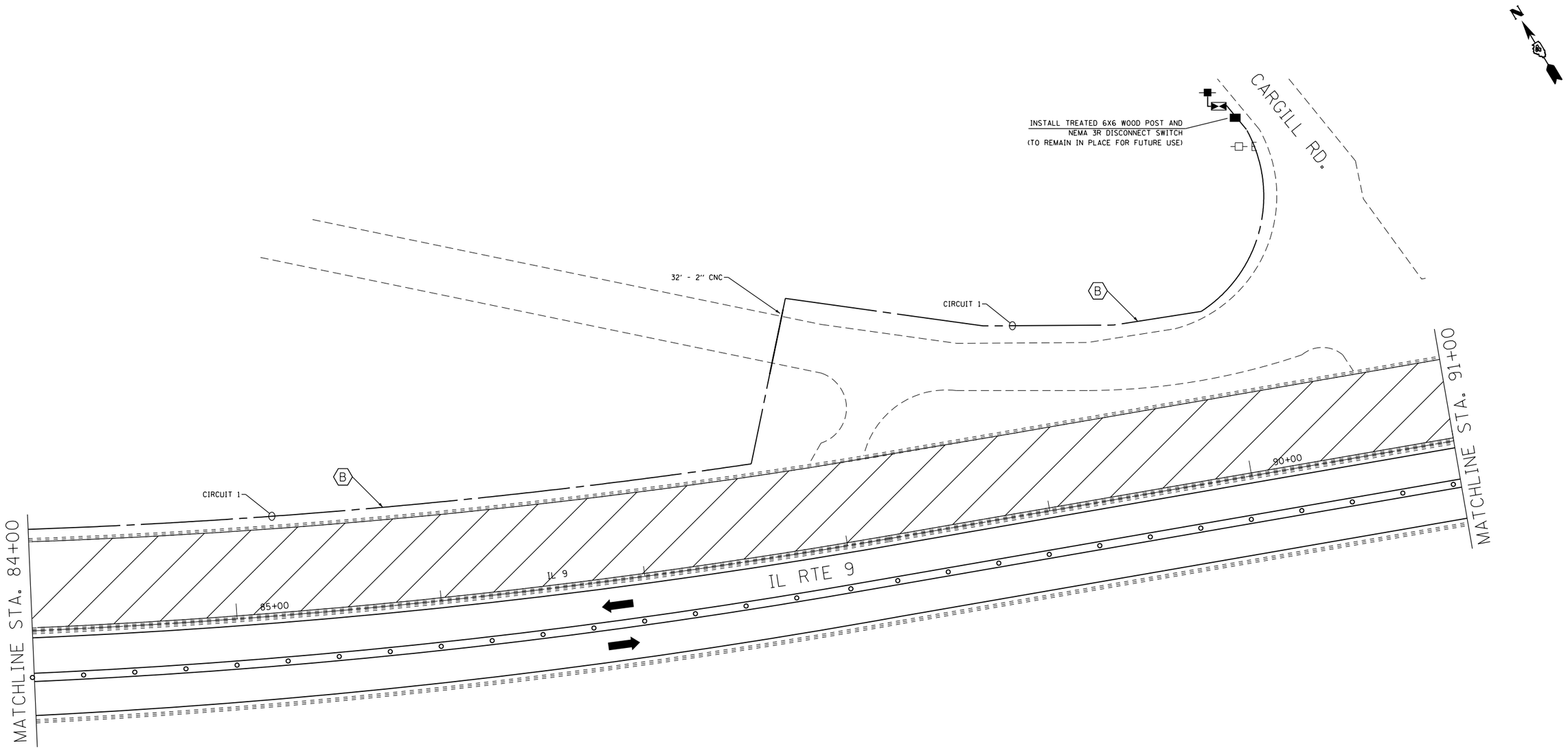
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79 - Final Plans\68E79 - Pekin Bridge Lighting, Sheet ITS (Revised 6-25-20).dgn	USER NAME = HOWALDER	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TEMPORARY LIGHTING
STAGE 2

SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	77
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		



NOTES:

1. TEMPORARY LIGHTING SHALL BE INSTALLED IN STAGE 1 AND REMOVED AFTER STAGE 3 OF CONSTRUCTION.

0 25 50
SCALE

L-4
NOT TO SCALE
ELECTRICAL SHEET 15 OF 22

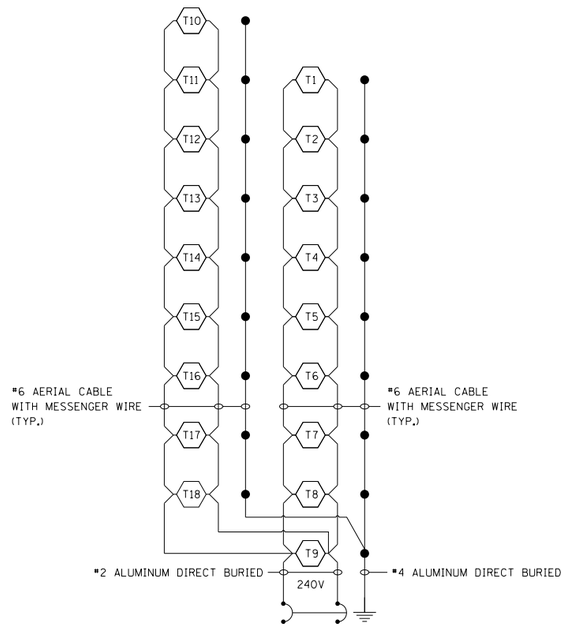
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
	- Final Plans\68E79 - Pekin Bridge Lighting, Roadway ITS (Revised 6-25-20).dgn	DRAWN -	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TEMPORARY LIGHTING
STAGE 2

SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	78
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		



2 POLE 30 AMP BREAKER
CKT "1"

IL-9 CROSSOVER

TEMPORARY LIGHTING CONTOLLER - 120/240V, 30AMP
CARGILL RD.

LEGEND

T1 TEMPORARY LIGHTING UNIT.

GROUND ROD.

NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

Illinois Department of Transportation

Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
05/08/20	68E79	(12B)BR,BDR,BJR	Tazewell

Marked Route Number	Municipality
IL RTE 9	

Roadway

Lane Width	# of Lanes	Median Width	I.E.S. Surface Classification	Q-Zero Value
12	1	N\A	R3	0.07

Structure

Mounting Height	Arm Length	Set-Back	Number of Luminaires (Highmast & Sign Lighting Only)
40 FT	15 FT	30 FT	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
0.684	3-0-3	N/A	10V

Layout

Spacing (to Nearest 5 ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
230 FT	SINGLE SIDED

Performance

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
N/A	N/A

Average Luminance, L_{AVE} (cd/m²)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{AVE}
0.40	3.50:1	6.00:1	0.4:1

Light Tresspass

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

Notes

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

PHOTOMETRIC CALCULATIONS TO BE PERFORMED IN ONE DIRECTION ONLY.

LUMINAIRE PERFORMANCE TABLE

FILE NAME = O:\common\GEN\Transfer - bureaus\68E79 - Final Plans\68E79 - Pekin Bridge Lighting, Wiring, ITS (Revised 6-25-20).dgn	USER NAME = HOWALDER	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

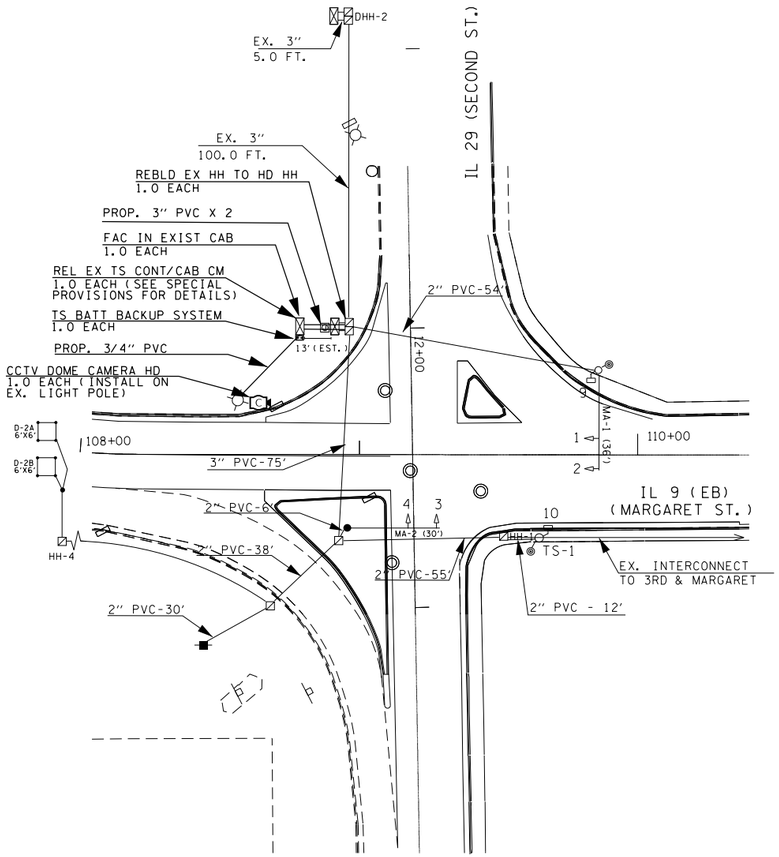
TEMPORY LIGHTING SYSTEM
WIRING DIAGRAM AND LUMINAIRE PERFORMANCE TABLE

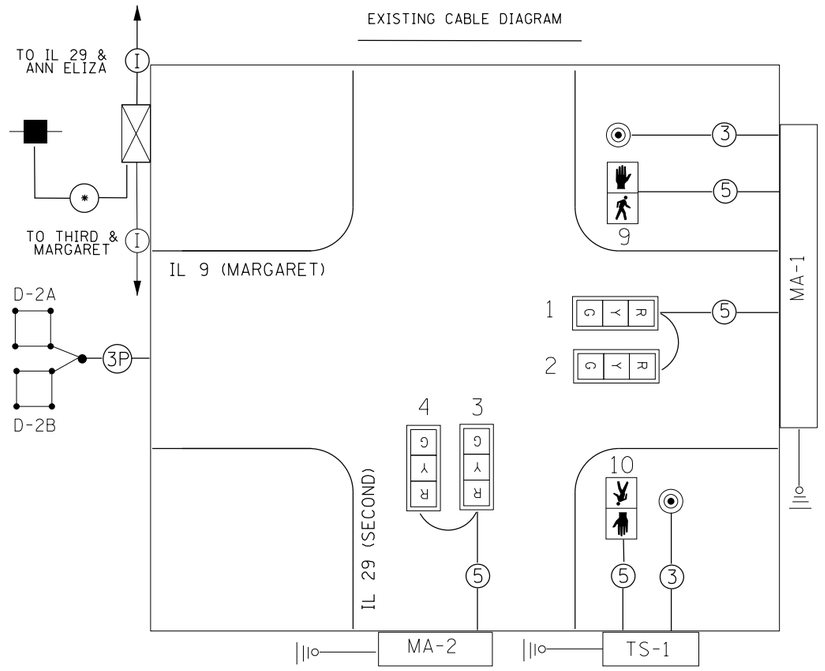
SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	79
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	

BILL OF MATERIALS - PEKIN BRIDGE ELECTRICAL PLAN SHEET 17		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	299.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	620.5
REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1.0
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE	EACH	1.0
CAT 5 ETHERNET CABLE	FOOT	94.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1.0
TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	1.0

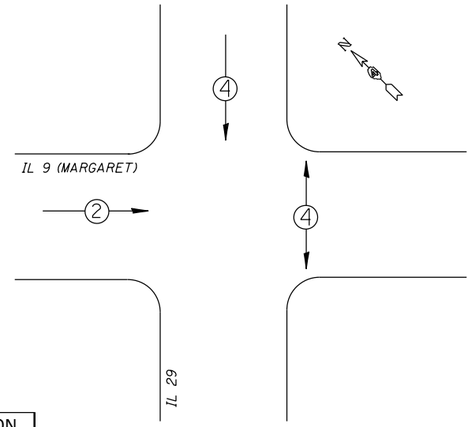
THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER TO DETERMINE THE LOCATION FOR THE RELOCATED CONTROLLER CABINET. THE CABINET SHALL BE LOCATED A MINIMUM OF FIVE FEET FROM THE EDGE OF THE PROPOSED CURB.





EXISTING PHASE DIAGRAM

NAME OF INTERSECTION IL 29 (SECOND) & MARGARET
PROPOSED CONTROLLER: ECONOLITE COBALT G SERIES IN EX. (TS-2), TYPE IV CABINET, TS-2 BACKPANEL



LEGEND
VEHICULAR MOVEMENT
PEDESTRIAN MOVEMENT
* NUMBER REFERS TO ASSOCIATED PHASE

THE CONTRACTOR SHALL RELOCATE THE EXISTING TRAFFIC SIGNAL CABINET TO ACCOMMODATE STAGE 3 TRAFFIC. THIS WORK SHALL INCLUDE THE INSTALLATION OF A NEW TYPE D FOUNDATION, INSTALLATION OF TWO 3" CONDUITS FROM THE EXISTING DOUBLE HANDHOLE TO THE NEW CONTROLLER FOUNDATION, INSTALLATION OF ONE 3/4" PVC CONDUIT FROM THE CONTROLLER CABINET TO THE EXISTING LIGHT POLE FOR THE PROPOSED CCTV CAMERA, INTERCEPTION OF THE EXISTING SERVICE CONDUITS FOR SECOND & MARGARET AND SECOND & ALL ELIZA AND ROUTING THEM INTO THE EXISTING HANDHOLE OR NEW CONTROLLER FOUNDATION, INSTALLATION OF NEW #6 XLP-USE SERVICE WIRE FROM THE EXISTING SERVICE DISCONNECT TO BOTH INTERSECTIONS, INSTALLATON OF NEW #18 3-PAIR TWISTED/SHIELDED DETECTOR LOOP LEAD IN CABLE FOR THE ADVANCED LOOPS, REMOVAL OF THE EXISTING CONTROLLER CONCRETE FOUNDATION AND STAND PAD, AND ALL OTHER WORK REQUIRED TO COMPLETE THE RELOCATION AND RESTORE FUNCTIONALITY. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE". SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.

NOT TO SCALE
ELECTRICAL SHEET 17 OF 22

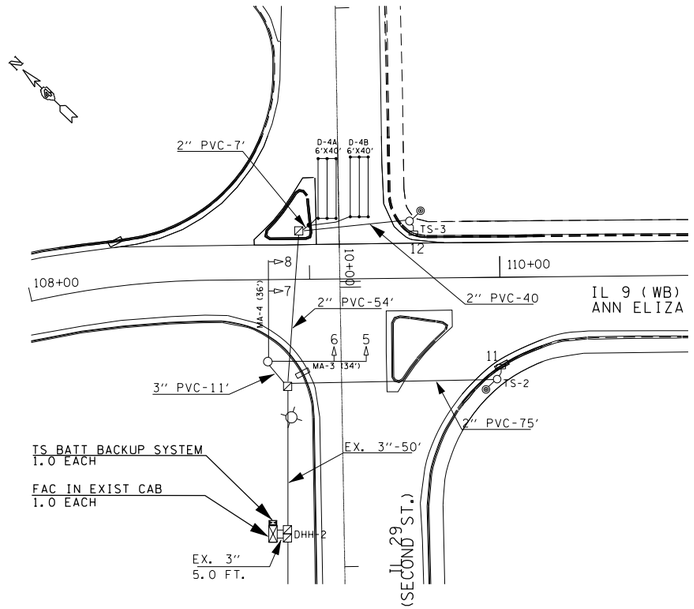
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79 - Final Plans\68E79 - Pekin Bridge Lighting, Revised ITS (Revised 6-25-20).dgn	USER NAME = HOWALDER	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

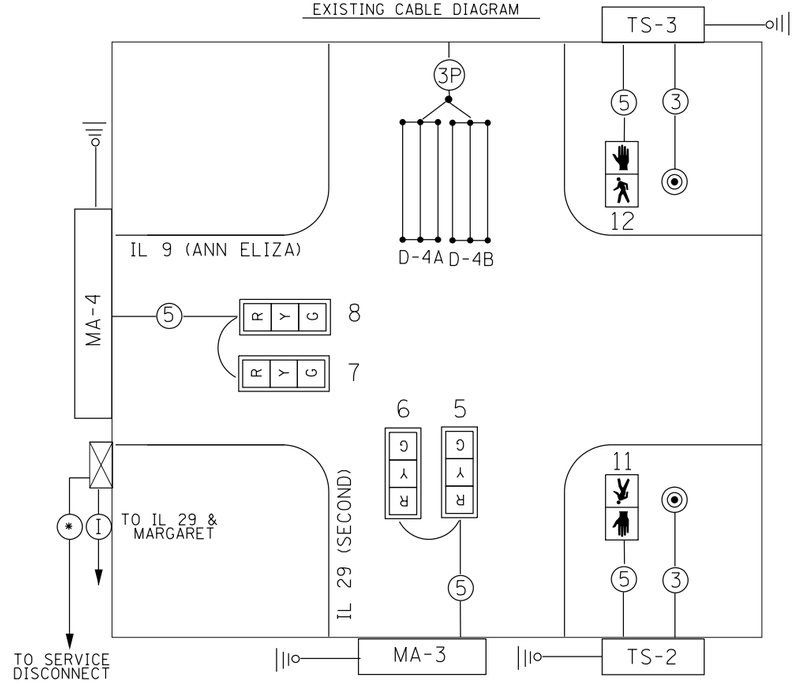
PROPOSED TRAFFIC SIGNAL IMPROVEMENTS
IL 29 (SECOND) & IL 9/29 (MARGARET)
SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	80
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		

BILL OF MATERIALS - PEKIN BRIDGE ELECTRICAL PLAN SHEET 18		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1.0
TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	1.0



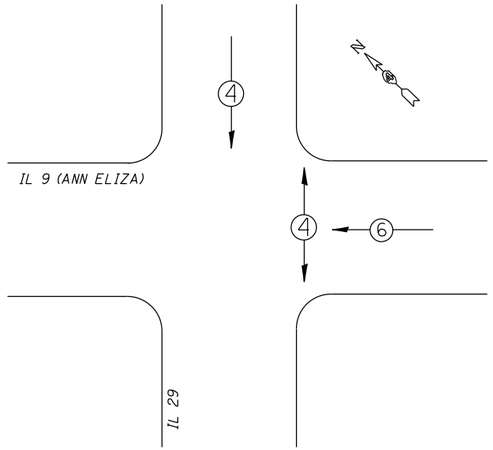
EXISTING CABLE DIAGRAM



PROPOSED PHASE DIAGRAM

NAME OF INTERSECTION IL 29 (SECOND) & ANN ELIZA

PROPOSED CONTROLLER: ECONOLITE COBALT G SERIES IN EX. (TS-2), TYPE IV CABINET, TS-2 BACKPANEL



LEGEND

VEHICULAR MOVEMENT

PEDESTRIAN MOVEMENT

* NUMBER REFERS TO ASSOCIATED PHASE

NOT TO SCALE
ELECTRICAL SHEET 18 OF 22

FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
	- Final Plans\68E79 - Pekin Bridge Lighting, Mod, ITS (Revised 6-25-20).dgn	DRAWN	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
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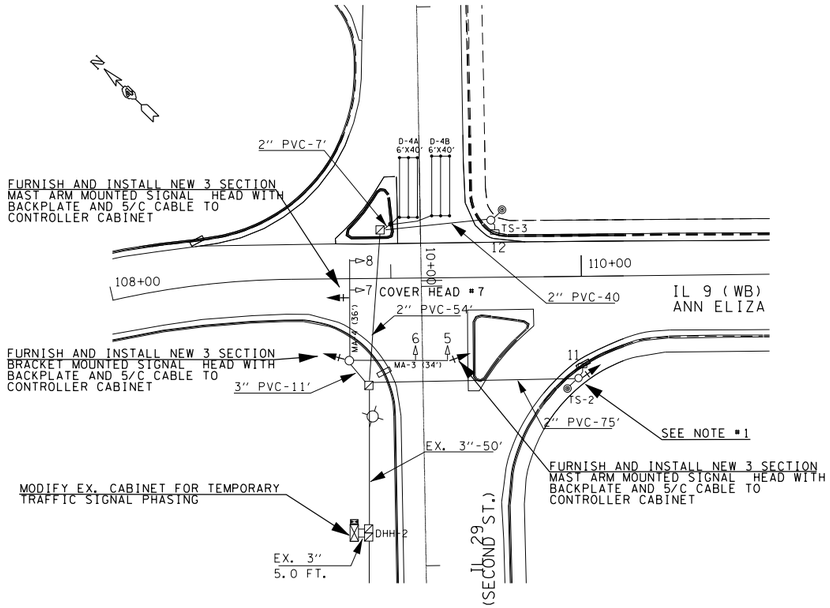
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL IMPROVEMENTS
IL 29 (SECOND) & IL 9/29 (ANN ELIZA)

SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	81
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		

BILL OF MATERIALS - PEKIN BRIDGE ELECTRICAL PLAN SHEET 19		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	L SUM	1.0



NOTE #1

THE CONTRACTOR SHALL DO THE FOLLOWING WORK:

REMOVE EX. 10 FT. SIGNAL POST AND FURNISH AND INSTALL A NEW 15' GALVANIZED STEEL POST AND BASE ON EX. FOUNDATION

FURNISH AND INSTALL A NEW 3-SECTION SIGNAL HEAD WITH BACKPLATE AND 5/C CABLE TO CONTROLLER CABINET

RELOCATE PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON TO NEW POST

DELIVER EXISTING POST AND BASE TO THE IDOT PEORIA WEST MAINTENANCE FACILITY.

POST AND SIGNAL HEAD TO REMAIN IN PLACE AND BE CONNECTED TO PHASE 6 WHEN CONSTRUCTION HAS BEEN COMPLETED

1. THE CONTRACTOR SHALL MODIFY THE EXISTING TRAFFIC SIGNALS TO ACCOMODATE TWO-WAY TRAFFIC FOR STAGE 3.

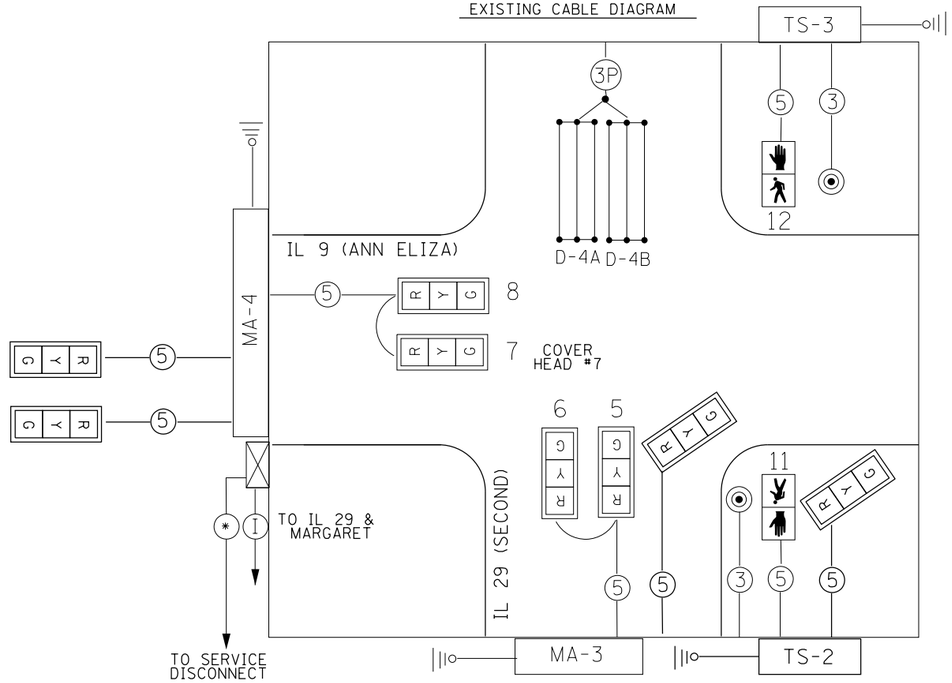
2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR THE MODIFICATIONS.

3. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL APPLICABLE MUTCD AND NEC REQUIREMENTS.

4. THE CONTRACTOR SHALL REMOVE THE TEMPORARY TRAFFIC SIGNALS AND RESTORE THE SIGNAL OPERATION BACK TO THE EXISTING CONDITIONS.

5. THE CONTRACTOR SHALL DELIVER ALL TRAFFIC TRAFFIC SIGNAL HEADS TO THE IDOT TRAFFIC BUILDING.

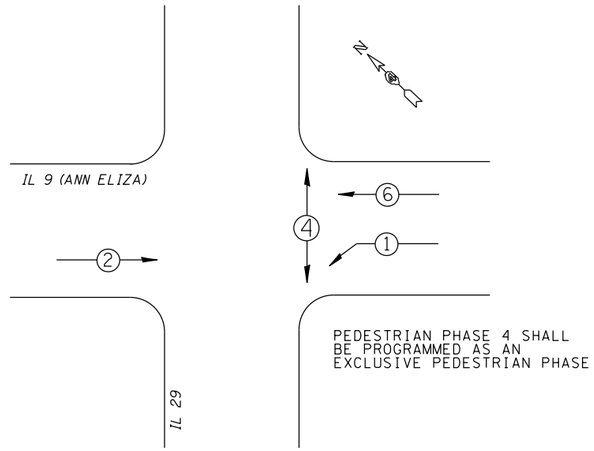
EXISTING CABLE DIAGRAM



TEMPORARY PHASE DIAGRAM

NAME OF INTERSECTION IL 29 (SECOND) & ANN ELIZA

PROPOSED CONTROLLER: ECONOLITE COBALT G SERIES (TS-2), TYPE IV CABINET, TS-2 BACKPANEL



LEGEND

VEHICULAR MOVEMENT

PEDESTRIAN MOVEMENT

* NUMBER REFERS TO ASSOCIATED PHASE

NOT TO SCALE
ELECTRICAL SHEET 19 OF 22

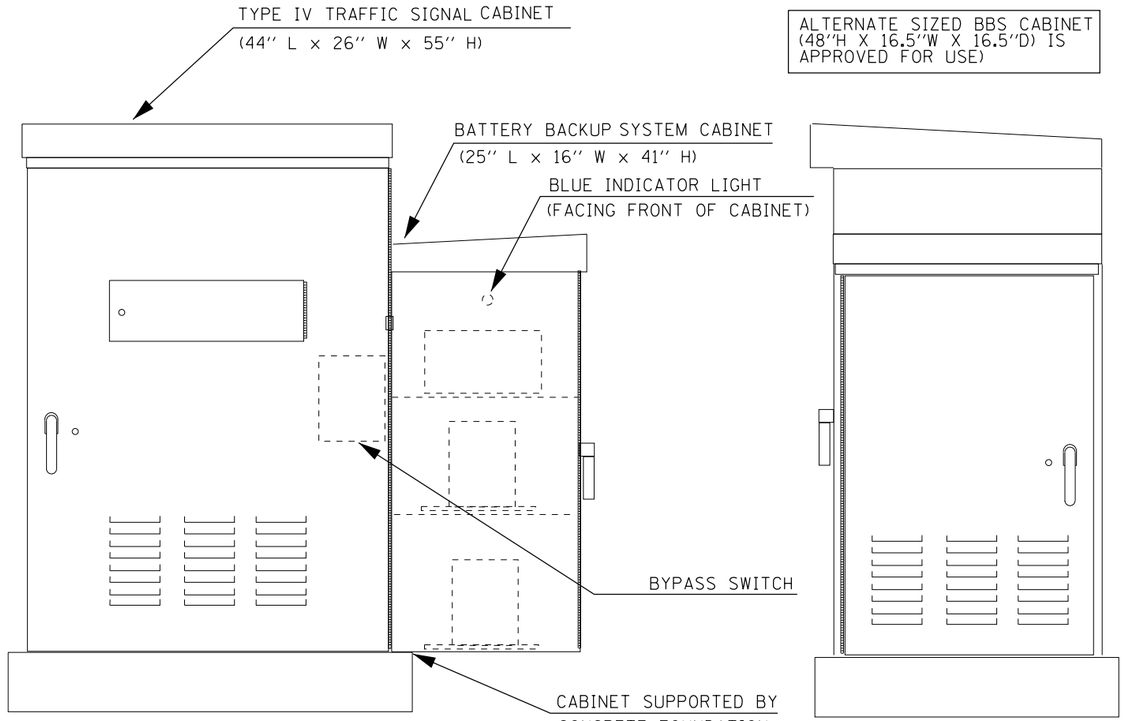
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79 - Final Plans\68E79 - Pekin Bridge Lighting, Navigation ITS (Revised 6-25-20).dgn	USER NAME = HOWALDER	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

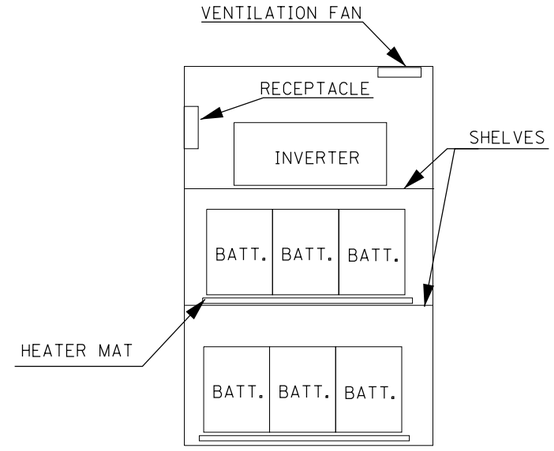
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNALS
IL 29 (SECOND) & IL 9/29 (ANN ELIZA)

SCALE: STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	82
		CONTRACT NO. 68E79		
		ILLINOIS	FED. AID PROJECT	





(NOTE: 4 BATTERIES REQUIRED FOR 48V SYSTEM AND SIX BATTERIES REQUIRED FOR 36V SYSTEM)

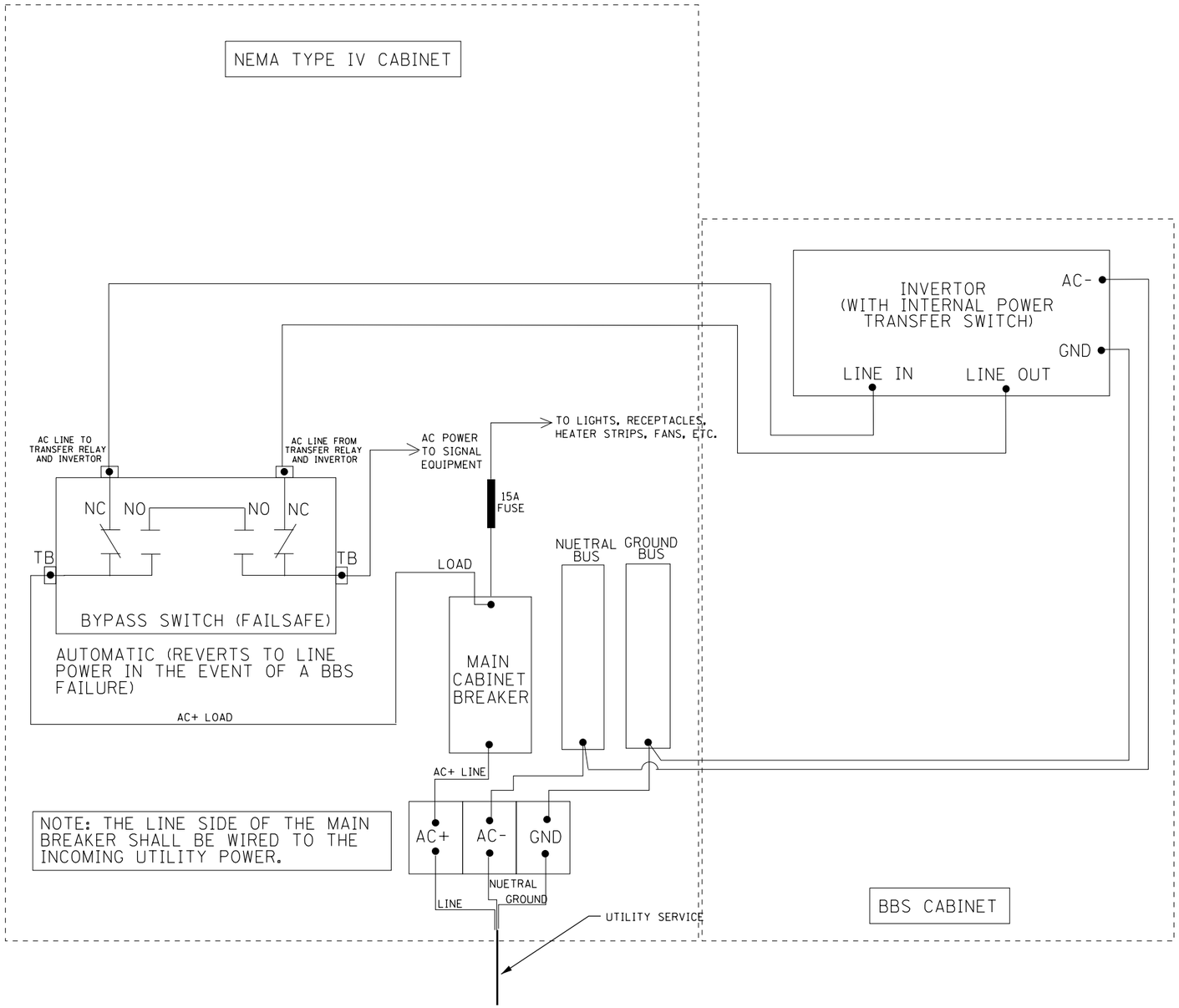
BATTERY BACKUP CABINET DETAILS

NOTES

1. THE BATTERY BACKUP SYSTEM CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 41'' (H) X 25'' (W) X 16'' (D). THE CABINET SHALL BE EQUIPPED WITH A THREE POINT LATCHING MECHANISM, TWO SHELVES, THERMOSTATICALLY CONTROLLED VENTILATION FAN, AND A POWER RECEPTACLE. THE CABINET SHALL BE MOUNTED TO THE SIDE OF THE PROPOSED TYPE IV CABINET WITH THE BOTTOM OF THE CABINET SUPPORTED BY THE CONCRETE FOUNDATION.
2. ALL CABINET LIGHTS, HEATER STRIPS, VENTILATION FANS, AND SERVICE RECEPTACLES SHALL BE BYPASSED WHEN THE BATTERY BACKUP UNIT IS OPERATING IN BATTERY MODE.
3. THE BATTERY BACKUP UNITS CONTACTS SHALL BE WIRED TO PROVIDE LOCAL CONTROLLER ALARMS (AS AVAILABLE IN THE PROPOSED CABINETS).
4. THE BYPASS SWITCH SHALL BE AUTOMATIC AND SHALL BE INSTALLED IN THE BBS CABINET.
5. THE CABINET SHALL BE EQUIPPED WITH A DELUXE PLEATED AIR FILTER AND PLEXIGLASS SHIELDS FOR ALL TERMINALS CARRYING LINE VOLTAGE.

NOT TO SCALE
ELECTRICAL SHEET 20 OF 22

FILE NAME = O:\common\GEN\Transfer - bureaus\68E79 - Final Plans\68E79 - Pekin Bridge Lighting, Rwd, ITS (Revised 6-25-20).dgn	USER NAME = HOWALDER	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BATTERY BACKUP SYSTEM CABINET DETAIL**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			693	(12B)BR,BDR,BJR	TAZEWELL	92 / 83
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68E79	
	PLOT DATE = 6/26/2020	DATE -	REVISED -		SCALE:	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



NOT TO SCALE
ELECTRICAL SHEET 21 OF 22

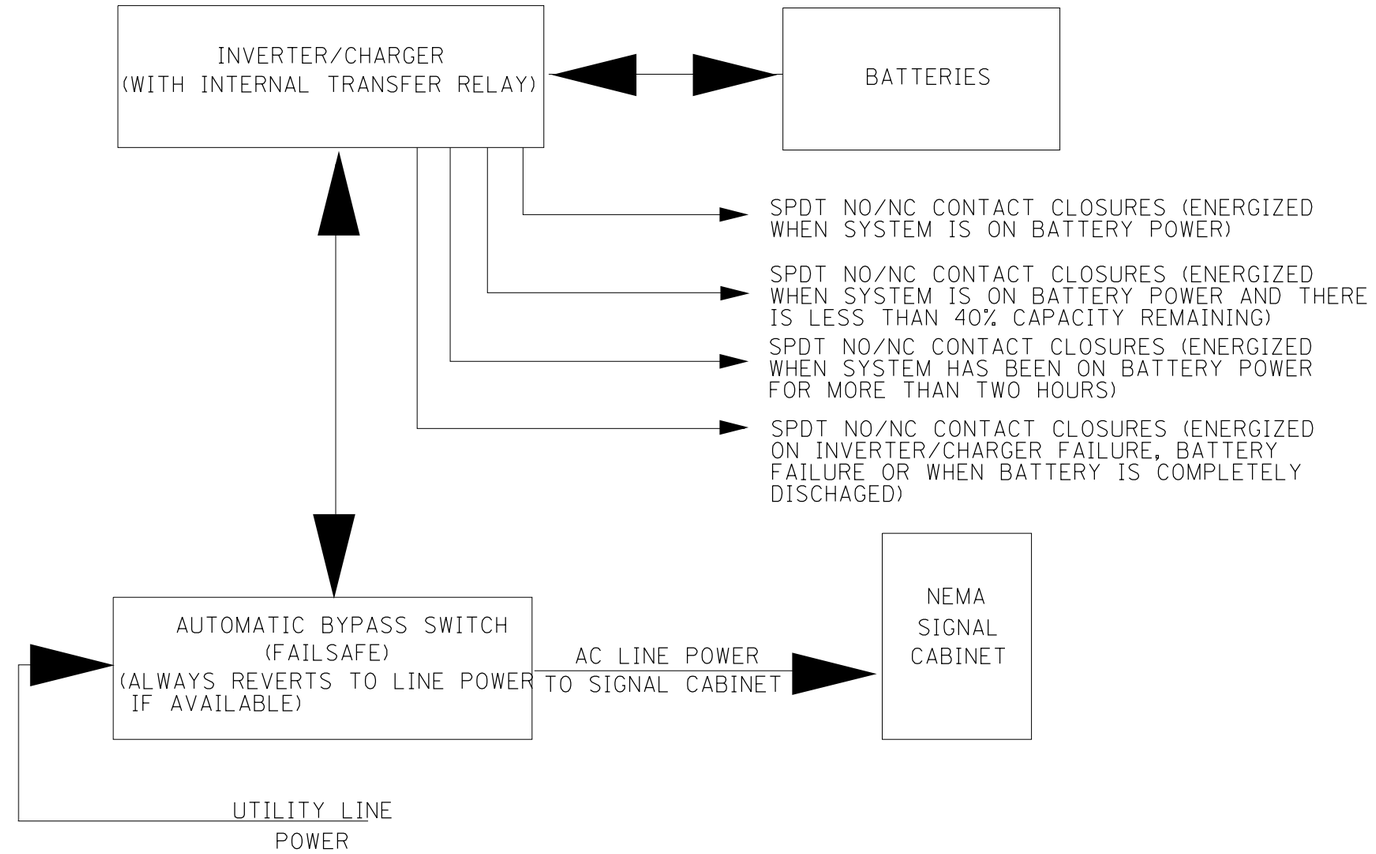
FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
	- Final Plans\68E79 - Pekin Bridge Lighting, Roadway ITS (Revised 6-25-20).dgn	DRAWN -	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

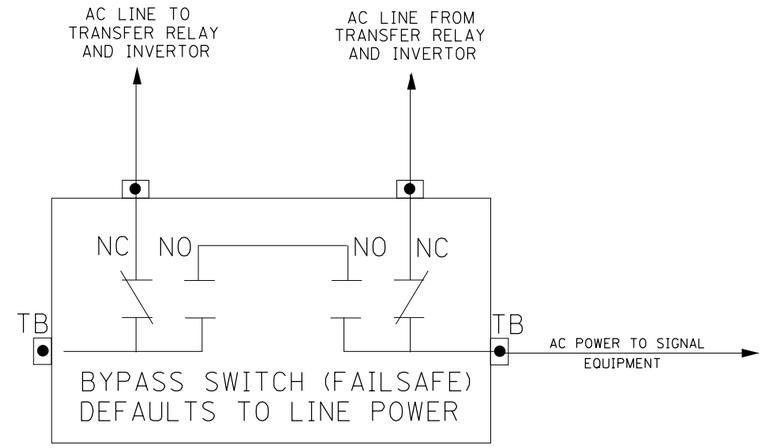
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BATTERY BACKUP SYSTEM CABINET WIRING DIAGRAM

SCALE: | STA. | TO STA.

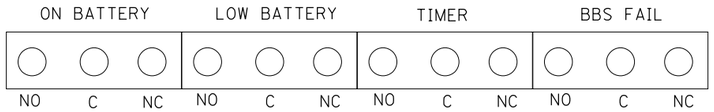
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	84
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		





NOTES:

1. TB - #8 TERMINAL BLOCKS
2. NO - NORMALLY OPEN
3. NC - NORMALLY CLOSED
4. NO/NC CONTACTS SHALL ALL TOGGLE SIMULTANEOUSLY WITH A SINGLE MANUALLY OPERATED SWITCH.
5. THE MANUAL BYPASS SWITCH SHALL ONLY SWITCH LINE POWER. THE NEUTRAL AND EQUIPMENT GROUND SHALL NOT BE SWITCHED AND SHALL BE CONNECTED TO THE NEMA CABINET BUSSES.



NO/NC CONTACTS MAY SHARE OR USE SEPARATE COMMONS.

NOT TO SCALE
ELECTRICAL SHEET 22 OF 22

FILE NAME = O:\common\GEN\Transfer - bureaus\68E79	USER NAME = HOWALDER	DESIGNED -	REVISED -
	- Final Plans\68E79 - Pekin Bridge Lighting, Wi DRAWN ITS (Revised 6-25-20).dgn		REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BATTERY BACKUP SYSTEM BLOCK AND BYPASS SWITCH DIAGRAMS

SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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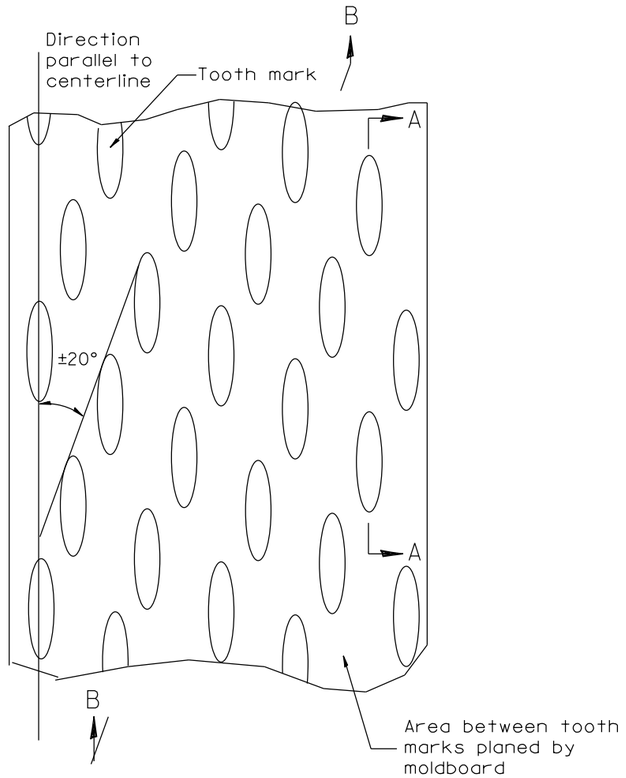
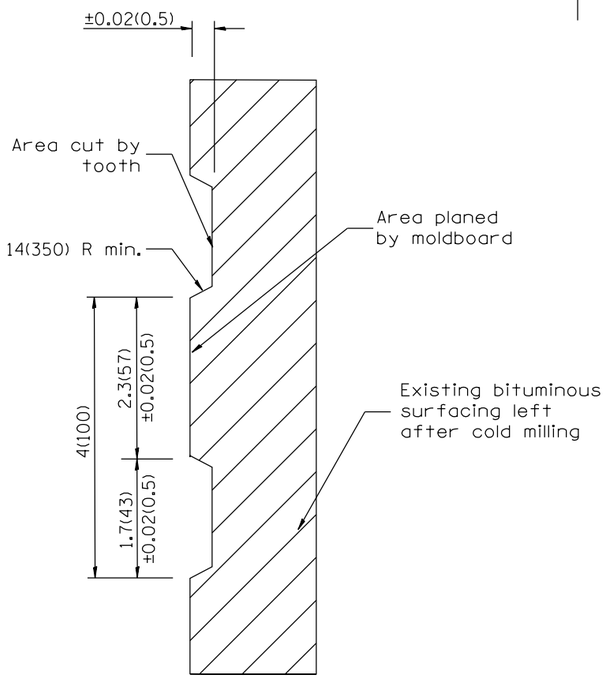
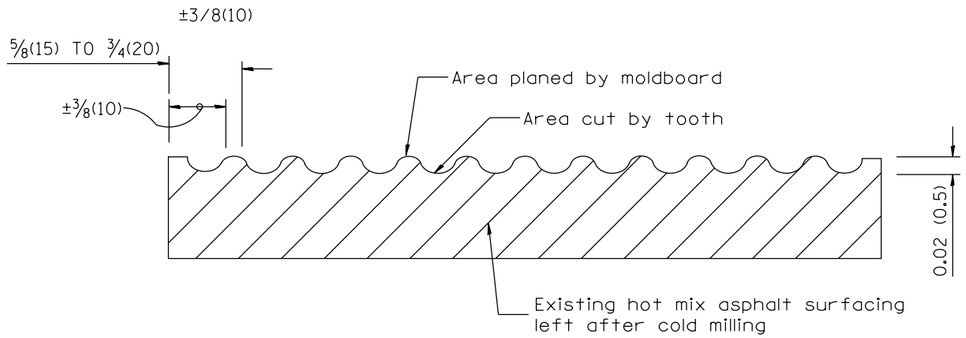
		CONTRACT NO. 68E79		
		ILLINOIS FED. AID PROJECT		



PLAN



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

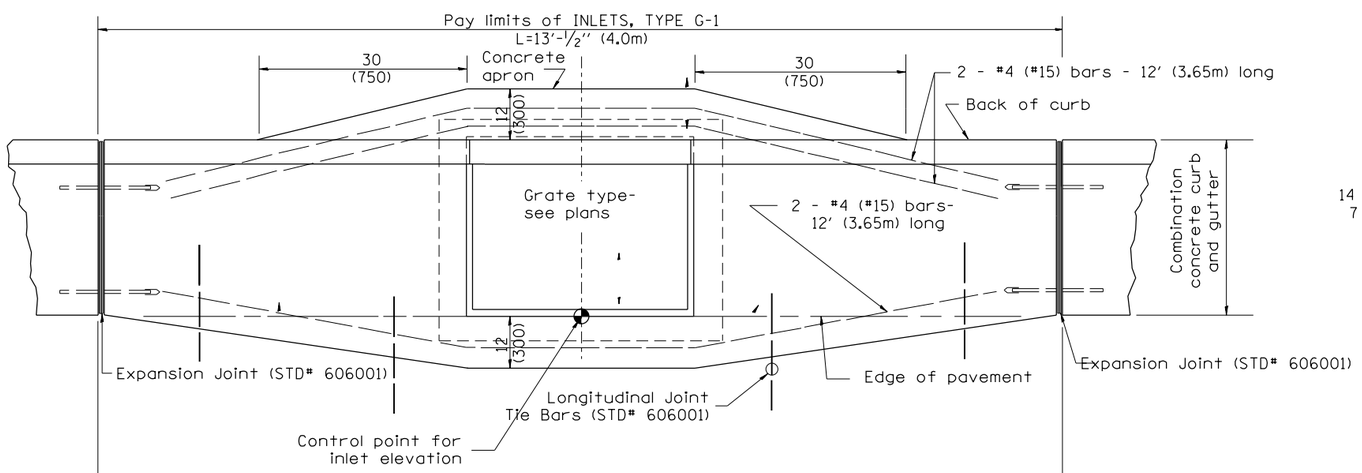
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

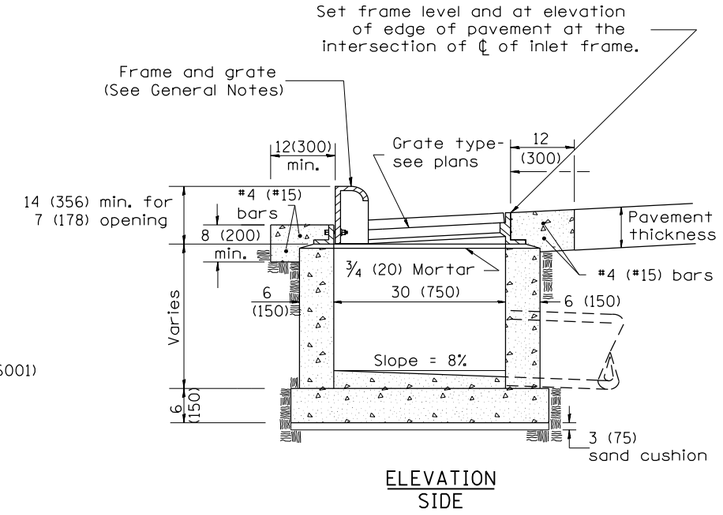
NOT TO SCALE

CADD STD. 440001-D4

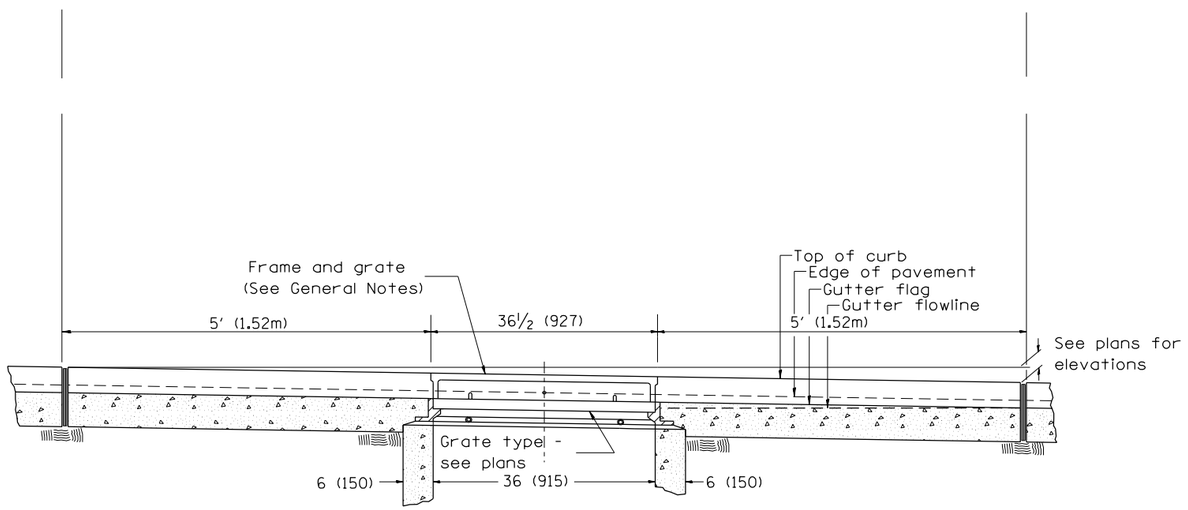
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			92	86
			CONTRACT NO. 68E79	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



ELEVATION
SIDE



ELEVATION
FRONT

GENERAL NOTES

1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination Concrete Curb & Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. B-4.01, NEW REVISION BOX	T.P.
10-99	REVISION TO GENERAL NOTES	J.A.
02-00	REVISION TO DESIGNER NOTES	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

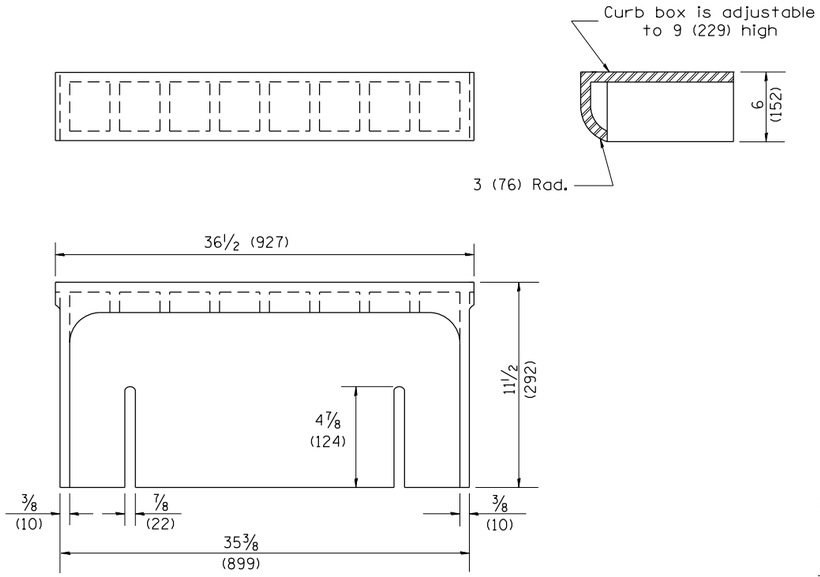
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INLETS, TYPE G-1

NOT TO SCALE

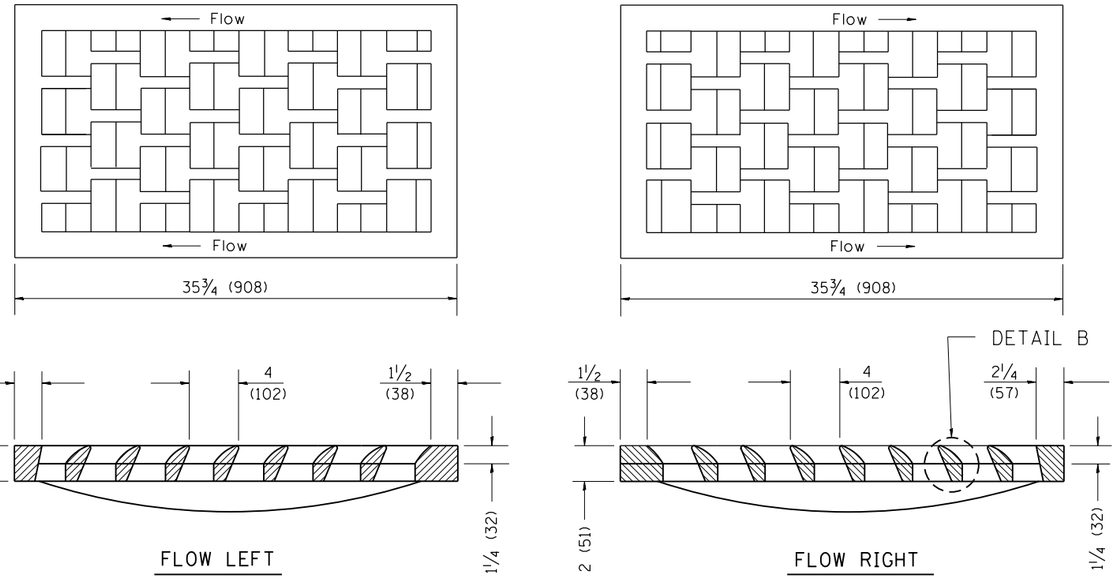
CADD STD. 602001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			92	87
			CONTRACT NO. 68E79	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



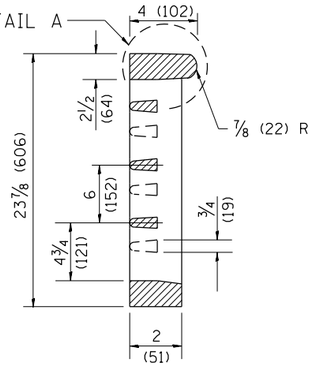
CAST CURB BOX

110 lbs. (50 kg)



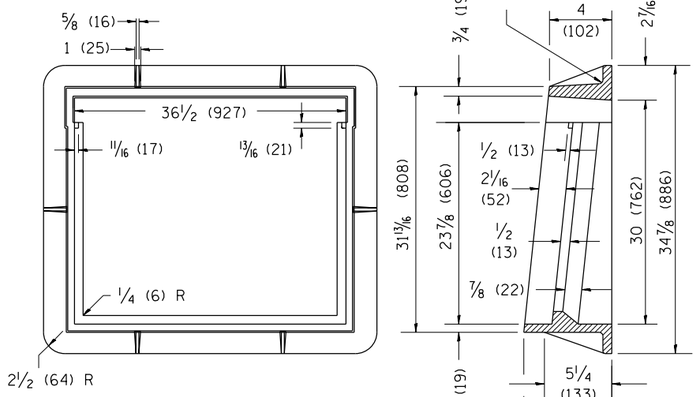
FLOW LEFT

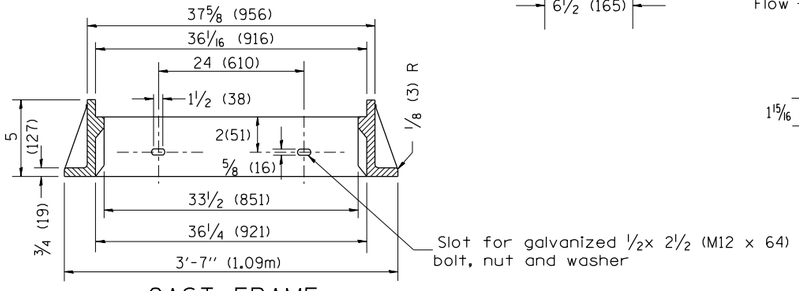
FLOW RIGHT



CAST VANE GRATES

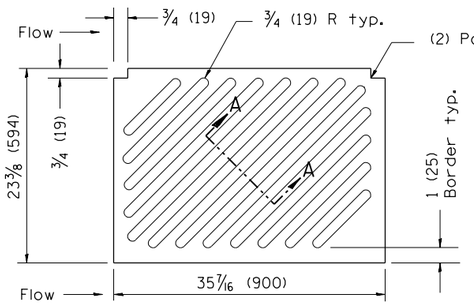
(SPECIFY LEFT OR RIGHT FLOW)
230 lbs. (104 KG)



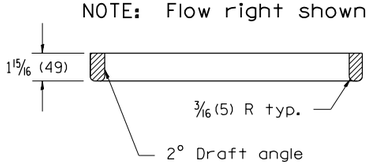


CAST FRAME

271 lbs. (123 kg)

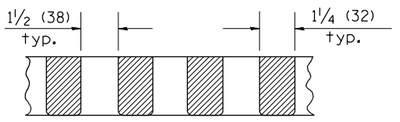


NOTE: Flow right shown

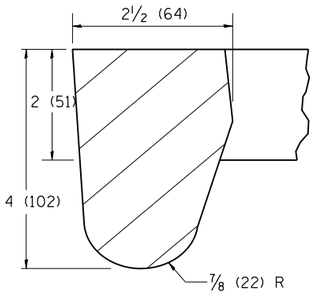


CAST DIAGONAL GRATE

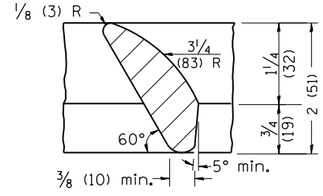
(Reversible for flow)
217 lbs. (98 kg)



SECTION A-A



DETAIL A



DETAIL B

GENERAL NOTES

1. The frame and grate shown on this drawing are for use with all TYPE G-1 and TYPE G-1, SPECIAL DRAINAGE STRUCTURES. See plans for grate type and flow direction.
2. Flow direction: As viewed from street side.
3. Material: cast gray iron.

All dimensions are in inches (millimeters) unless otherwise noted.

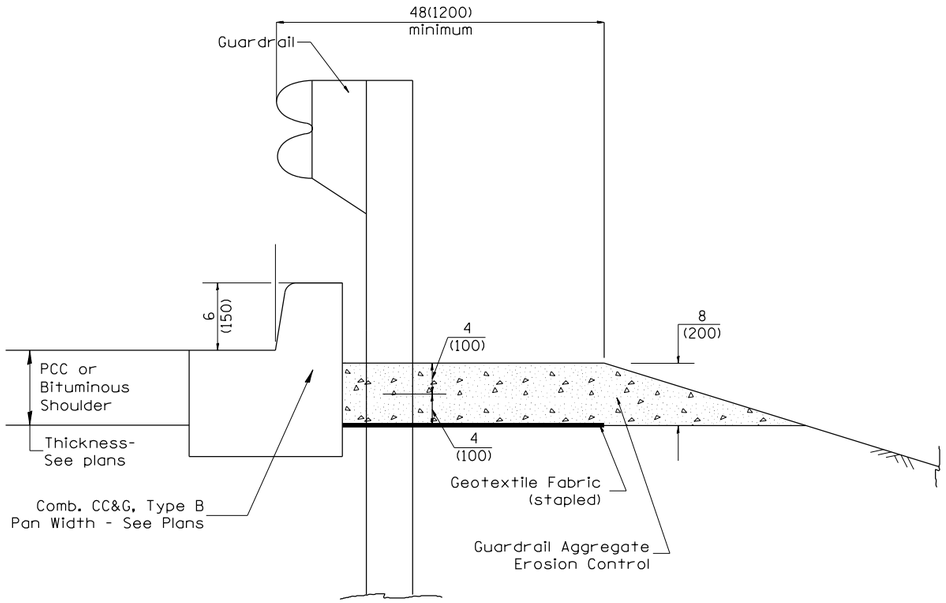
01-01-97	RENUM. B-10.01, NEW REVISION BOX	T.P.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

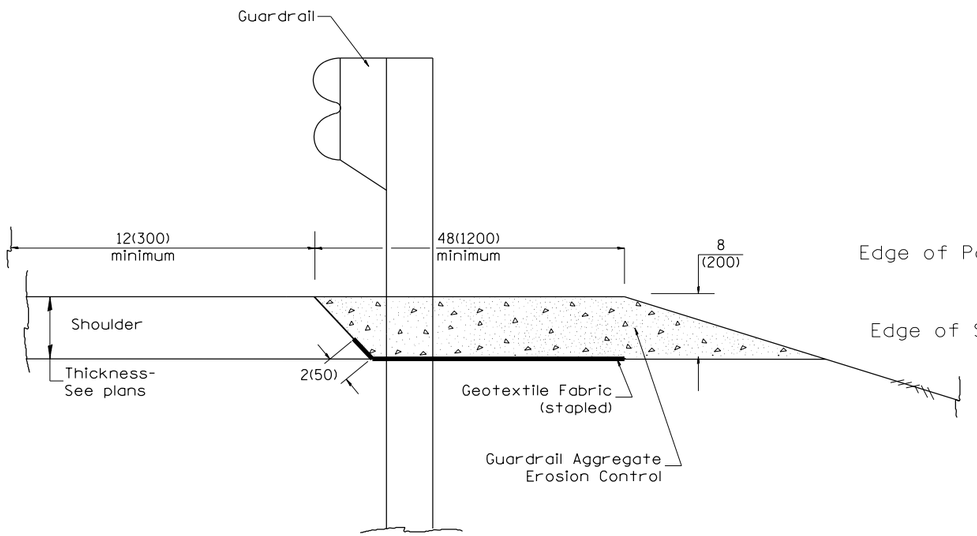
FRAME & GRATES FOR TYPE G-1 AND TYPE G-1, SPECIAL DRAINAGE STRUCTURES

NOT TO SCALE — CADD STD. 604001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			92	88
		CONTRACT NO. 68E79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.

3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.

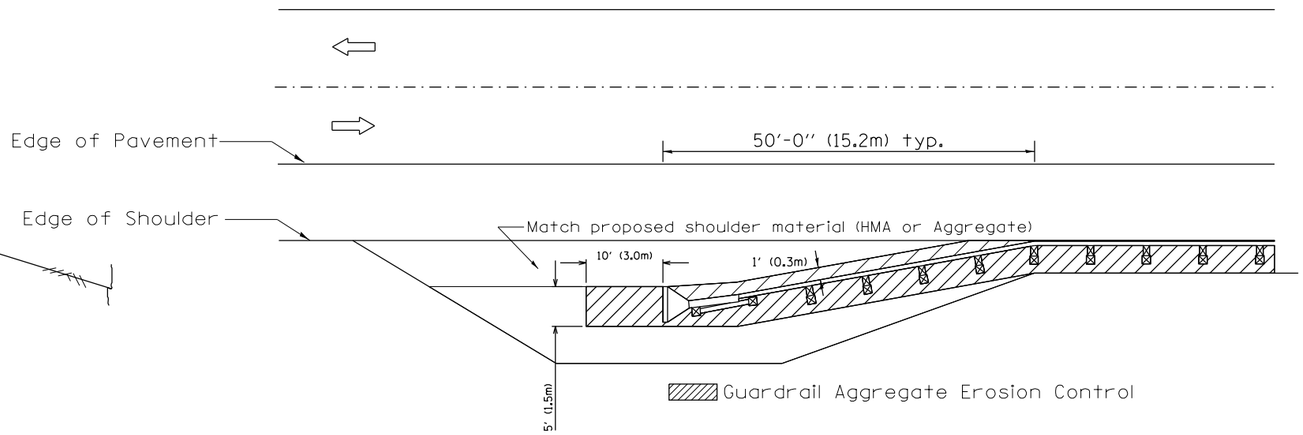
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.

5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.

6. Materials shall meet the following requirements:

   A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.

   B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



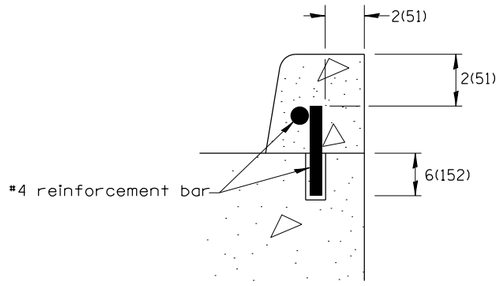
All dimensions are in inches (millimeters) unless otherwise noted.

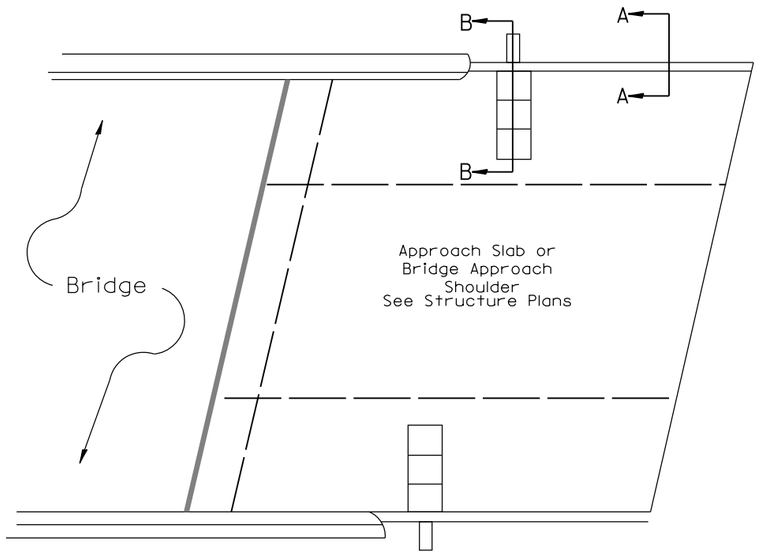
03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	5-30-18	CHANGE B CURB TO CC&G	R.D.	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**GUARDRAIL EROSION CONTROL TREATMENTS**
08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.	07-16-19	SPELLING CORRECTIONS	R.D.		SHT. 1 OF 2
07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.					NOT TO SCALE CADD STD. 630101-D4
01-26-17	REVISED	R.D.					

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	89
		CONTRACT NO. 68E79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL ''A''

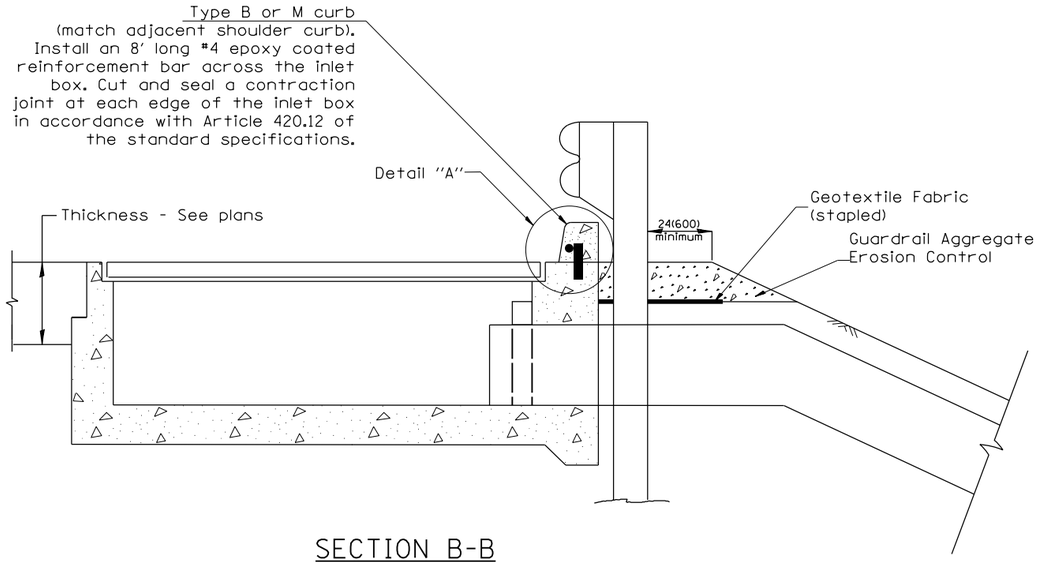
#4 reinforcement bars may be cast in PCC apron and precast inlet box or drilled and anchored with an approved chemical adhesive at 2' spacing. Cost of curb and reinforcement are included in the cost of shoulder inlet.





PLAN VIEW

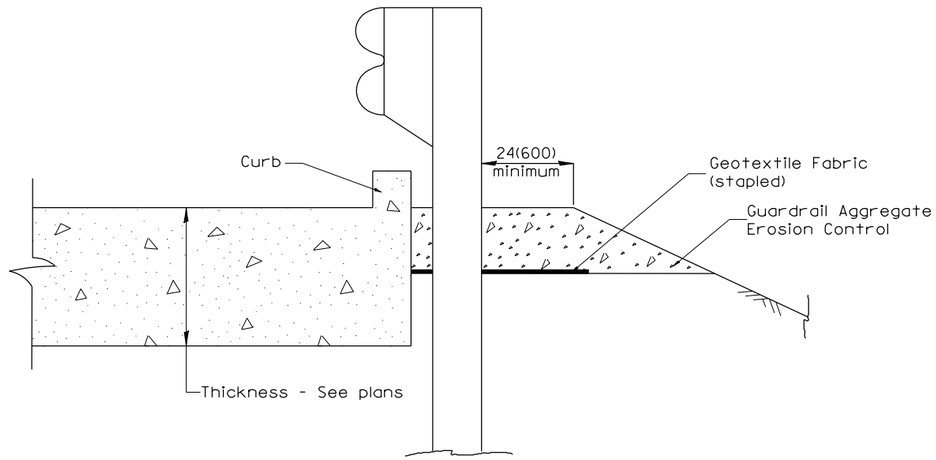
APPROACH SLAB OR SHOULDER PLACEMENT



SECTION B-B

TYPICAL SECTION AT INLETS

TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A

TYPICAL SECTION WITH BRIDGE APPROACH CURB

All dimensions are in inches (millimeters) unless otherwise noted.

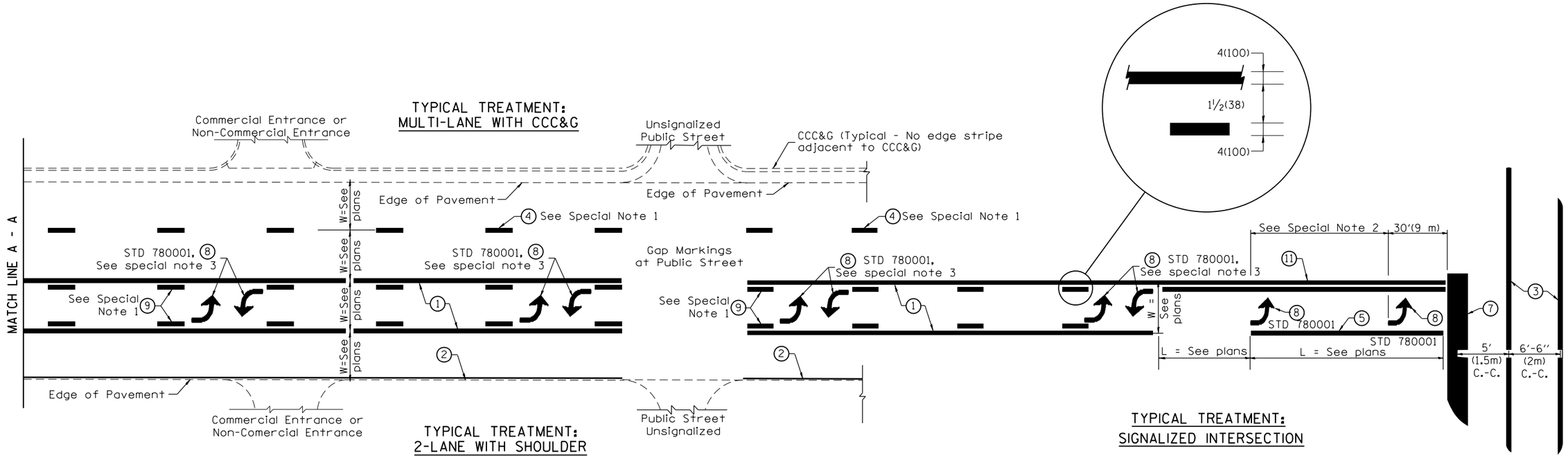
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 630101-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR,BDR,BJR	TAZEWELL	92	90
		CONTRACT NO. 68E79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend.
Some elements may not apply to specific project.)

1. 4(100) Solid (Yellow)
2. 4(100) Solid (White)
3. 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
   2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
4. 6(150) Skip-Dash (White) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
5. 8(200) Solid (White)
6. 12(300) Diagonal (White) (Item 6 is shown on Std. 780001)
7. 24(600) Stop Bar (White)
8. Letters & Arrows — 33' (10m) (See Std. 780001 and Special Notes 2 & 3)
9. 4(100) Skip-Dash (Yellow) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
10. 12(300) Diagonal (Yellow) (See Table A) — 45°
11. 4(100) Double Solid (Yellow) — 11(280) C.-C., See Table A

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
   A. A minimum of two (2) arrows is required.
   B. The maximum spacing between arrows is 80' (24 m).
   C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
   A. A minimum of two (2) arrow pairs is required.
   B. The maximum spacing between arrow pairs is 200' (61 m).
   C. Arrow pairs shall be evenly spaced if three (3) or more are required.
   D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

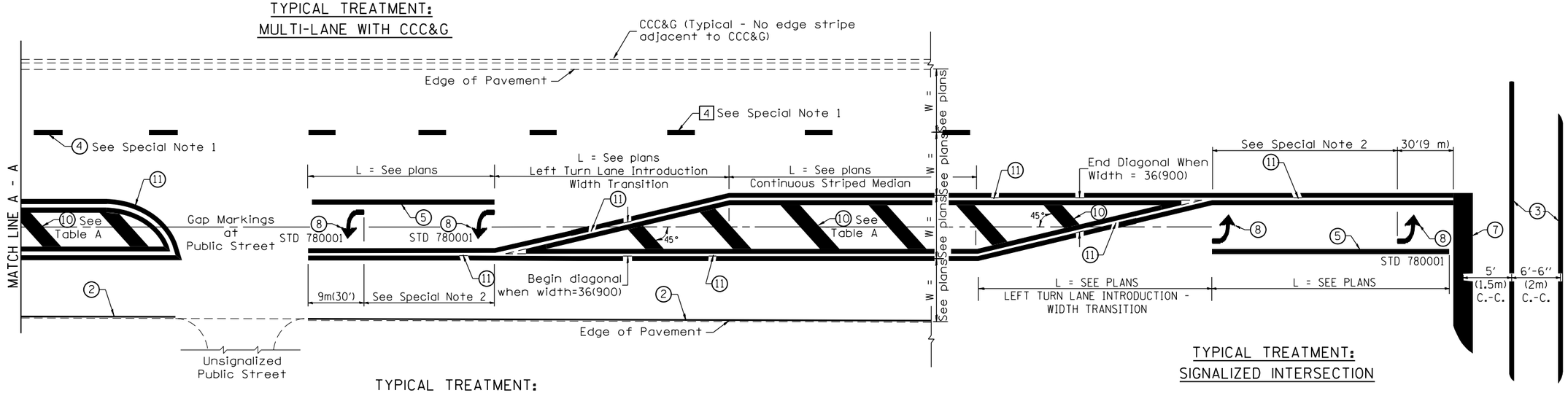
1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
   Through Arrow= 14.8 sq. ft.
   Large Left or Right Arrow= 21.9 sq. ft.
   2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
   Wrong Way Arrow= 29.5 sq. ft.
   Railroad Crossing Symbol= 69.8 sq. ft.
   (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.		
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.	
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.	
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS
NOT TO SCALE
SHT. 1 OF 2
CADD STD. 780001-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	91
		CONTRACT NO. 68E79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



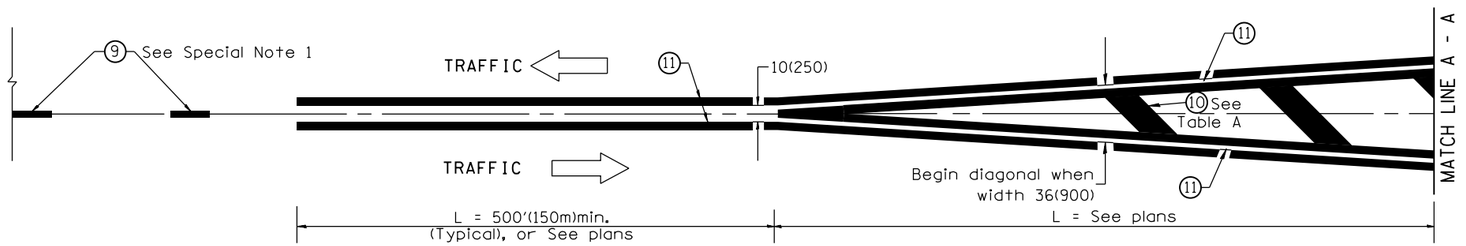
TYPICAL MEDIAN TRANSITIONS

FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS NOT TO SCALE SHT. 2 OF 2 CADD STD. 780001-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(12B)BR;BDR,BJR	TAZEWELL	92	92
		CONTRACT NO. 68E79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		