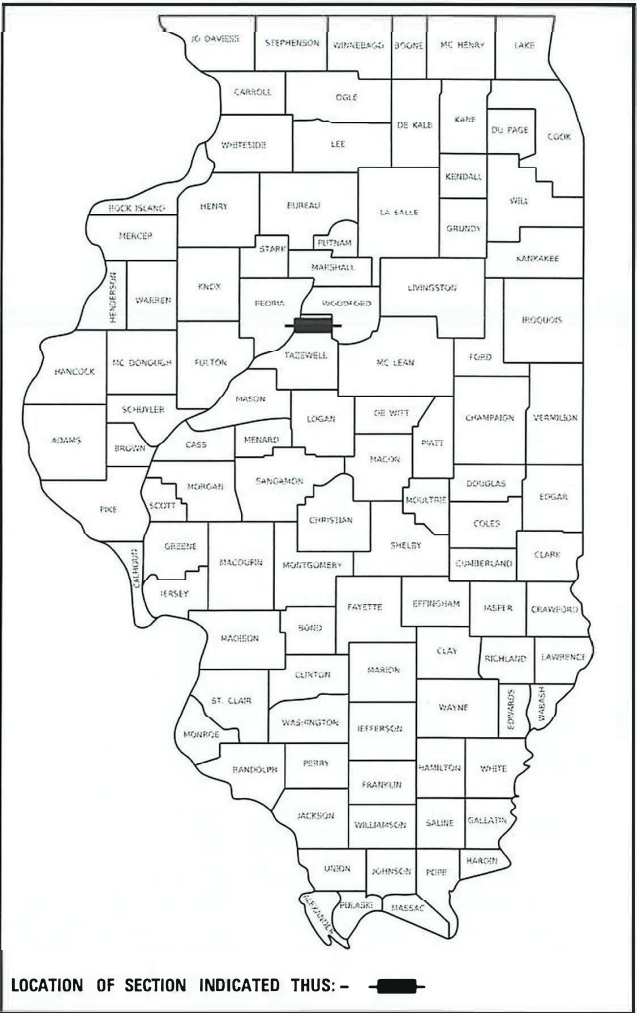


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192*	1
	ILLINOIS	CONTRACT NO. 68F54		

* 192 + 1 = 193 TOTAL SHEETS

D-94-044-20



LOCATION OF SECTION INDICATED THUS: -

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES STRUCTURE IMPROVEMENTS TO TEN(10) EXISTING STRUCTURES WITHIN THE PROPOSED PROJECT LIMITS. IN GENERAL, THE STRUCTURE WORK INCLUDES BRIDGE PAINTING, BRIDGE DECK SCARIFICATION AND OVERLAY, JOINT REPLACEMENT, BEARING REPLACEMENT, SLOPEWALL REPAIR, SUBSTRUCTURE REPAIR, AND OTHER RELATED WORK.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 29 2020
James A. James
REGIONAL ENGINEER

December 4, 2020
Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020
James A. James
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

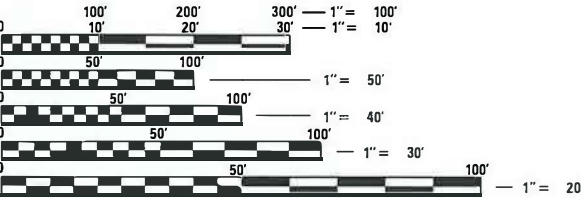
PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY STANDARDS:

- 000001-08
- 001001-02
- 442101-09
- 630001-12
- 630301-09
- 631031-17
- 701101-05
- 701106-02
- 701301-04
- 701311-03
- 701400-10
- 701401-12
- 701402-12
- 701426-09
- 701901-08
- 704001-08
- 725001-01
- 780001-05
- 782006-01
- B.L.R. 21-9

ADT 23900 (2019)
MU 17.6%
SU 3.0%



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.

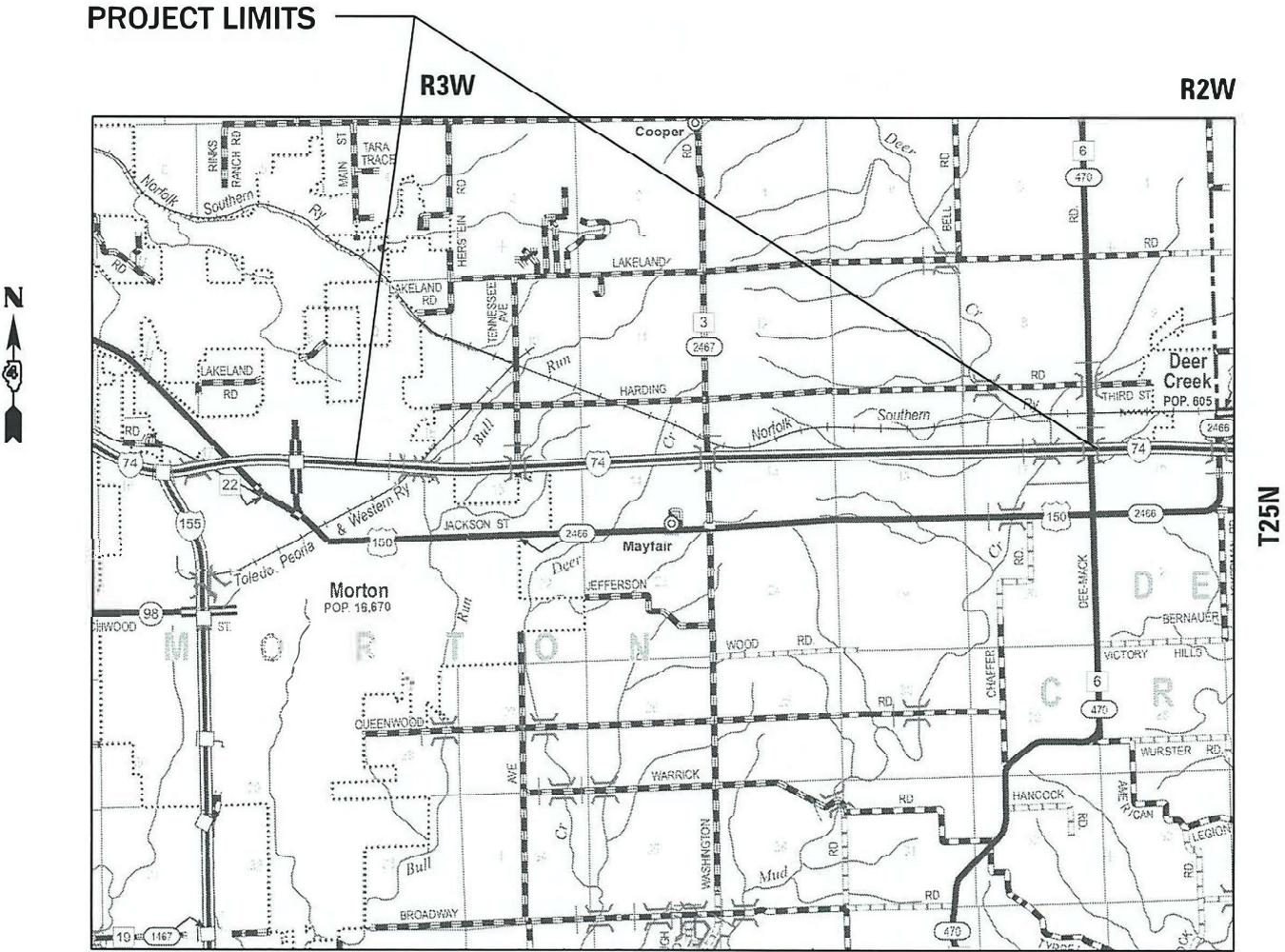
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: RICH DOTSON (309)671-3455
PROJECT MANAGER: NICOLE FAYANT / ARMARIS AYALA DIAZ (309)671-3473
CATALOG NO. 035832-01D
CONTRACT NO. 68F54

PROPOSED
HIGHWAY PLANS

FAI 74 (I-74)
SECTION 90-15[HB(1-4);VB;B]BP,BJR,BRR
PROJECT NHPP-7J5Q(586)
TAZEWELL COUNTY

C-94-068-20



GROSS LENGTH = 29038 FT. = 5.500 MILES
NET LENGTH = 1286 FT. = 0.244 MILE

INDEX OF SHEETS

- 1. COVER SHEET
- 2–3. INDEX OF SHEETS, GENERAL NOTES, AND PROJECT SPECIFIC NOTES
- 4–9. SUMMARY OF QUANTITIES
- 10–14. SCHEDULE OF QUANTITIES
- 15. LINE DIAGRAM
- 16–32. STAGING DETAILS
- 33–38. ROAD CLOSURE AND DETOUR DETAILS
- 39–41. GURDRAIL DETAILS
- 42. PAVEMENT TRANSITION DETAILS
- 43–44. EXISTING BRIDGE APPROACH PAVEMENT DRAIN DETAIL (FOR INFORMATION ONLY)
- 45–186. STRUCTURE PLAN SHEETS
- 187–192. DISTRICT CADD STANDARDS

GENERAL NOTES

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

No commitments have been made on this contract.

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

BUTT JOINT CUTTING TIME RESTRICTION

Butt joints shall not be milled more than three (3) days prior to placement of the HMA surface course.

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 (Borrow Site Review)
- * 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 waste site environmental clearances and six weeks for the required borrow site environmental clearances.

SECURING DRAINAGE STRUCTURE GRATES

Prior to routing traffic onto the shoulders as shown in the staging plans, the Contractor 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.

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.

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		DRAWN -	REVISED -					74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	2
	PLOT SCALE = 102.5035 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68F54				
	PLOT DATE = 10/29/2020	DATE -	REVISED -		SCALE:	SHEET 2	OF 192 SHEETS	STA.	TO STA.	ILLINOIS		

Mixture Use(s):	SURFACE COURSE 2" (Approach)	BINDER COURSE 2" (Approach)	SHOULDER SURFACE 2"	SHOULDER (Lower 4" Lift)
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
Design Air Voids:	4.0% AT N=70	4.0% AT N=70	4.0% AT N=70	4.0% AT N=70
Mixture Composition: (Gradation Mixture):	IL 9.5	IL 9.5	IL 9.5	IL 19.0
Friction Aggregate:	Mixture D	Mixture D	Mixture D	N.A.
Quality Management:	QCQA	QCQA	QCQA	QCQA

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

The existing bridge approach drain details (for information only) provided in the plans detail the existing inlets in the approach pavements. The frames and grates of these inlets are to be adjusted.

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 090-0019 SN 090-0020	SN 090-0021 SN 090-0022	SN 090-0023	SN 090-0024	SN 090-0084	SN 090-0075	SN 090-0077	SN 090-2005
20200500	EARTH EXCAVATION (WIDENING)	CU YD	27	10	10	5	2				
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	12799	4371	4147	2158	2123				
40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	3341	1132	1043	583	583				
40602985	HOT-MIX ASPHALT BINDER COURSE, 1L-9.5, N70	TON	9			9					
40604062	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N70	TON	216	72	72	36	36				
42001300	PROTECTIVE COAT	SQ YD	5658	1748	1888	894.5	894.5	71	77	85	
44000157	HOT - MIX ASPHALT SURFACE REMOVAL, 2 "	SQ YD	876	302	303	135	136				
44000173	HOT - MIX ASPHALT SURFACE REMOVAL, 6"	SQ YD	6739	2318	2207	1099	1115				
44201053	CLASS B PATCHES, TYPE IV, 17 INCH	SQ YD	27				27				
44201055	CLASS B PATCHES, TYPE II, 17 INCH	SQ YD	70	24	16	8	22				
44201057	CLASS B PATCHES, TYPE III, 17 INCH	SQ YD	64	32		16	16				
44201299	DOWEL BARS 1 1/2"	EACH	270	100	40	40	90				
44213200	SAW CUTS	FOOT	698	264	96	108	230				
44213204	TIE BARS 3/4"	EACH	7				7				

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 090-0019 SN 090-0020	SN 090-0021 SN 090-0022	SN 090-0023	SN 090-0024	SN 090-0084	SN 090-0075	SN 090-0077	SN 090-2005
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	79	26	27	11	15				
48203100	HOT - MIX ASPHALT SHOULDERS	TON	2522	868	821	414	419				
50102400	CONCRETE REMOVAL	CU YD	131.1	25	28.6	13.1	13.1	6.4	6.75	38.2	
50104650	SLOPE WALL REMOVAL	SQ YD	134			67	67				
50157300	PROTECTIVE SHIELD	SQ YD	483							483	
50300225	CONCRETE STRUCTURES	CU YD	36.3					10.6	11.9	13.8	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	139.3	27.7	31	14.4	14.4	6.4	6.7	38.7	
50300260	BRIDGE DECK GROOVING	SQ YD	5096	1656	1740	850	850				
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1600			800	800				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	21,220	3000	4000	1500	1500	2380	2500	6340	
50800515	BAR SPLICERS	EACH	172	48	56	24	24		20		
51100300	SLOPE WALL 6 INCH	SQ YD	134			67	67				
52000025	PREFORMED JOINT SEAL 2"	FOOT	135	45		45	45				
52000030	PREFORMED JOINT SEAL 2 1/2	FOOT	280	135	100		45				

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 090-0019 SN 090-0020	SN 090-0021 SN 090-0022	SN 090-0023	SN 090-0024	SN 090-0084	SN 090-0075	SN 090-0077	SN 090-2005
52000035	PREFORMED JOINT SEAL 2 3/4"	FOOT	145		100	45					
52000110	PREFORMED JOINT STRIP SEAL	FOOT	816	181	198	93.5	93.5	61	65	124	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	36			18	18				
52100520	ANCHOR BOLTS, 1"	EACH	72			36	36				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	8	4	4						
*	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1250	500	487.5	262.5				
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	5	2	2	1				
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	2	2	1				
63200310	GUARDRAIL REMOVAL	FOOT	1687	664	669	354					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14	7			7				
67100100	MOBILIZATION	L SUM	1	1							
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	4	1	1	1	1				
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	4	1	1	1	1				
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	120	40	40	20	20				

*= SPECIALTY ITEM

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 090-0019 SN 090-0020	SN 090-0021 SN 090-0022	SN 090-0023	SN 090-0024	SN 090-0084	SN 090-0075	SN 090-0077	SN 090-2005
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	140	42			14	28	28	28	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	328	112	112	52	52				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	110	38	38	17	17				
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	85862	10168	10502	6200	5576	15745	31308	6363	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4075	1125	1250	575	575		550		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3525	1125	1250	575	575				
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	12	2	2	1	1	2	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	6	2	2	1	1				
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	5	2	2	1					
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	10695	3577	3838	1640	1640				
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	2284	418	450	333	83		500	500	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	20	8	8	4					
X0326444	SURFACE FILLER (SPECIAL)	GALLON	22		6	9	3.5	3.5			
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1344	268	311	195	70		250	250	
X5030550	PROTECTIVE COAT (SPECIAL)	SQ YD	1420	415	561	222	222				

*= SPECIALTY ITEM

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 090-0019 SN 090-0020	SN 090-0021 SN 090-0022	SN 090-0023	SN 090-0024	SN 090-0084	SN 090-0075	SN 090-0077	SN 090-2005
* Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1		1						
* Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1			1					
* Z0010506	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1				1				
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	6029	1957	2164	954	954				
Z0012162	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	6029	1957	2164	954	954				
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	775.2	252.5	207.7	31.6	31.6	70.0		181.8	
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	47								47
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	2.4							2.4	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	21.7							21.7	
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	8	4	4						
Z0073500	TEMPORARY SUPPORT SYSTEM	L SUM	1							1	
Ø Z0076600	TRAINEES	HOUR	500	500							
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500							

Ø 0042 *= SPECIALTY ITEM

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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HMA SCHEDULE											
LOCATION				44000157	44000173	48102100	48203100	40600295	40600982	40604062	40602985
				HOT-MIX ASPHALT SURFACE REMOVAL, 2"	HOT-MIX ASPHALT SURFACE REMOVAL, 6"	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	HMA SURFACE REMOVAL - BUTT JOINT	HMA SURFACE COURSE, 1L-9.5, MIX "D", N70	HMA BINDER COURSE, 1L-9.5, N70
				SQ YD	SQ YD	TON	TON	POUND	SQ YD	TON	TON
PRE-STAGE EB I-74											
SN 090-0019	LT STA. 629+75.00 TO STA. 632+95.00	35.6	180.0	0.4	64.5	284.8					
	RT STA. 629+75.00 TO STA. 632+95.00	35.6	374.0	4.0	129.7	564.2					
	LT STA. 635+10.00 TO STA. 639+00.00	43.3	195.0	4.9	70.4	312.0					
	RT STA. 635+10.00 TO STA. 639+00.00	43.3	450.8	4.9	156.3	680.3					
SN 090-0021	LT STA. 639+00.00 TO STA. 642+58.00	39.8	196.9	1.1	70.6	312.2					
	RT STA. 639+00.00 TO STA. 642+58.00	39.8	372.6	4.5	129.6	565.1					
	LT STA. 645+36.25 TO STA. 647+83.00	27.4	131.2	3.1	47.1	208.6					
	RT STA. 645+36.25 TO STA. 648+33.00	33.0	308.2	3.7	107.2	467.5					
SN 090-0023	LT STA. 900+69.00 TO STA. 904+05.00	37.3	190.2	0.2	68.1	300.8					
	RT STA. 900+69.00 TO STA. 903+89.00	35.6	396.4	4.0	137.2	596.4					
	LT STA. 906+15.00 TO STA. 908+64.00	27.7	132.9	3.1	47.8	211.3					
	RT STA. 906+00.00 TO STA. 909+14.00	34.9	380.0	4.0	131.6	572.3					
PRE-STAGE WB I-74						0.0					
SN 090-0020	LT STA. 630+11.50 TO STA. 633+10.00	33.2	343.1	3.8	119.0	517.9					
	RT STA. 630+61.50 TO STA. 633+10.00	27.6	132.3	3.1	47.6	210.4					
	LT STA. 635+24.00 TO STA. 639+00.00	41.8	437.9	4.7	151.8	660.6					
	RT STA. 635+24.00 TO STA. 639+00.00	41.8	204.9	0.8	73.5	325.1					
SN 090-0022	LT STA. 639+00.00 TO STA. 643+12.00	45.8	457.8	5.2	158.9	692.2					
	RT STA. 639+00.00 TO STA. 643+12.00	45.8	204.4	5.2	73.8	327.4					
	LT STA. 645+91.00 TO STA. 649+11.00	35.6	355.6	4.0	123.5	537.6					
	RT STA. 645+91.00 TO STA. 649+11.00	35.6	180.0	0.4	64.5	284.8					
SN 090-0024	LT STA. 901+25.00 TO STA. 904+40.50	35.1	385.6	4.0	133.5	580.6					
	RT STA. 901+75.00 TO STA. 904+24.50	27.7	133.7	3.1	48.0	212.5					
	LT STA. 906+50.00 TO STA. 909+70.00	35.6	405.5	4.0	140.2	609.6					
	RT STA. 906+34.00 TO STA. 909+70.00	37.3	190.0	4.2	68.0	300.4					
PAVEMENT TRANSITION EB I-74											
SN 090-0019	STA. 632+35.00 TO STA. 632+95.00				14.0	205.0	284.7	17.9			
	STA. 635+10.00 TO STA. 635+70.00				13.9	204.3	283.8	17.9			
SN 090-0021	STA. 641+98.00 TO STA. 642+58.00				10.5	183.0	254.1	17.9			
	STA. 645+36.25 TO STA. 645+96.25				10.7	184.2	255.8	17.9			
SN 090-0023	STA. 903+38.83 TO STA. 903+98.83				14.2	206.7	287.2	17.9			
	STA. 906+09.15 TO STA. 906+69.15				15.2	270.4	295.6	17.9	9.0		
PAVEMENT TRANSITION WB I-74											
SN 090-0020	STA. 632+50.00 TO STA. 633+10.00				13.2	200.2	278.1	17.9			
	STA. 635+24.00 TO STA. 635+84.00				14.1	205.9	285.9	17.9			
SN 090-0022	STA. 642+52.00 TO STA. 643+12.00				11.9	192.0	266.7	17.9			
	STA. 645+91.00 TO STA. 646+51.00				11.9	192.0	266.7	17.9			
SN 090-0024	STA. 903+71.00 TO STA. 904+31.00				15.4	214.0	297.3	17.9			
	STA. 906+40.54 TO STA. 907+00.54				14.1	206.0	286.1	17.9			
SUB TOTAL - SN 090-0019=				158	1200	14	449	2251	568	36	
SUB TOTAL - SN 090-0020=				144	1118	12	419	2120	564	36	
SUB TOTAL - SN 090-0021=				140	1009	12	376	1921	510	36	
SUB TOTAL - SN 090-0022=				163	1198	15	445	2226	533	36	
SUB TOTAL - SN 090-0023=				135	1099	11	414	2158	583	36	9
SUB TOTAL - SN 090-0024=				136	1115	15	419	2123	583	36	
TOTAL =				876	6739	79	2522	12799	3341	216	9

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						74	90-15[HB(1-4);VB;BJBP,BJR,BRR	TAZEWELL	192	10
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -						CONTRACT NO. 68F54				
	PLOT DATE = 10/29/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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EARTH EXCAVATION		
LOCATION		20200500
		EARTH EXCAVATION (WIDENING)
		CU YD
PRE-STAGE EB I-74		
SN 090-0019	LT STA. 630+90.00 TO STA. 632+95.00	3
	LT STA. 635+10.00 TO STA. 636+42.50	2
SN 090-0021	LT STA. 640+53.00 TO STA. 642+58.00	3
	LT STA. 645+36.25 TO STA. 646+68.00	2
SN 090-0023	LT STA. 901+84.00 TO STA. 904+05.00	3
	LT STA. 906+15.00 TO STA. 907+49.00	2
PRE-STAGE WB I-74		
SN 090-0020	RT STA. 631+76.50 TO STA. 633+10.00	2
	RT STA. 635+24.00 TO STA. 637+29.00	3
SN 090-0022	RT STA. 641+81.00 TO STA. 643+12.00	2
	RT STA. 645+91.00 TO STA. 647+96.00	3
SN 090-0024	RT STA. 902+90.00 TO STA. 904+24.50	2
SUB TOTAL - SN 090-0019=		5
SUB TOTAL - SN 090-0020=		5
SUB TOTAL - SN 090-0021=		5
SUB TOTAL - SN 090-0022=		5
SUB TOTAL - SN 090-0023=		5
SUB TOTAL - SN 090-0024=		2
TOTAL =		27

FRAMES AND GRATES		
LOCATION		60300105
		FRAMES AND GRATES TO BE ADJUSTED
		EACH
PAVEMENT TRANSITION EB I-74		
SN 090-0019	LT & RT STA. 632+35.00 TO STA. 632+95.00	2
SN 090-0021	LT & RT STA. 645+36.25 TO STA. 645+96.25	2
PAVEMENT TRANSITION WB I-74		
SN 090-0020	LT & RT STA. 632+50.00 TO STA. 633+10.00	2
SN 090-0022	LT & RT STA. 645+91.00 TO STA. 646+51.00	2
TOTAL =		8

PAVEMENT PATCHING SCHEDULE							
LOCATION		44201055	44201057	44201053	44213200	44201299	44213204
		CLASS B PATCHES, TYPE II, 17 INCH	CLASS B PATCHES, TYPE III, 17 INCH	CLASS B PATCHES, TYPE IV, 17 INCH	SAW CUTS	DOWEL BARS 1 1/2"	TIE BARS 3/4"
		SQ YD	SQ YD	SQ YD	FOOT	EACH	EACH
PAVEMENT TRANSITION EB I-74							
SN 090-0019	E STA. 635+10.00 TO STA. 635+70.00	8	32		168	60	
SN 090-0023	W STA. 903+38.83 TO STA. 903+98.83	8	16		108	40	
PAVEMENT TRANSITION WB I-74							
SN 090-0020	E STA. 635+24.00 TO STA. 635+84.00	16			96	40	
SN 090-0022	W STA. 642+52.00 TO STA. 643+12.00	16			96	40	
SN 090-0024	W STA. 903+71.00 TO STA. 904+31.00	22	16		154	60	
	E STA. 906+40.54 TO STA. 907+00.54			27	76	30	7
TOTAL =		70	64	27	698	270	7

GUARDRAIL SCHEDULE								
LOCATION		63000001	63100085	63100167	63200310	72501000	78200005	Z0001002
		STEEL PLATE BEAM GUARDRAIL , TYPE A , 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL , TYPE 6	TRAFFIC BARRIER TERMINAL , TYPE 1 (SPECIAL)TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS , TYPE A	GUARDRAIL AGGREGATE EROSION CONTROL
		FT	EACH	EACH	FT	EACH	EACH	TON
I-74 EB								
SN 090-0019	LT STA. 630+08.28 TO STA. 633+32.65	237.5	1	1	339	1	4	17
SN 090-0021	LT STA. 639+85.87 TO STA. 643+10.23	237.5	1	1	339	1	4	17
SN 090-0023	LT STA. 900+83.89 TO STA. 904+33.25	262.5	1	1	354	1	4	18
I-74 WB								
SN 090-0020	RT STA. 634+87.48 TO STA. 638+36.84	262.5	1	1	325	1	4	18
SN 090-0022	RT STA. 645+38.74 TO STA. 648+75.60	250.0	1	1	330	1	4	17
SUB TOTAL - SN 090-0019=		237.5	1	1	339	1	4	17
SUB TOTAL - SN 090-0020=		262.5	1	1	325	1	4	18
SUB TOTAL - SN 090-0021=		237.5	1	1	339	1	4	17
SUB TOTAL - SN 090-0022=		250.0	1	1	330	1	4	17
SUB TOTAL - SN 090-0023=		262.5	1	1	354	1	4	18
TOTAL =		1250	5	5	1687	5	20	87

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					74	90-15(HB(1-4);VB;B BP,B R,BRR	TAZEWELL	192	11
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68F54				
	PLOT DATE = 10/29/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

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TRAFFIC CONTROL SCHEDULE								
LOCATION		70100205	70100207	70103815	X7011800	X7010218	70107025	67000400
		TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	TRAFFIC CONTROL SURVEILLANCE	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	CHANGEABLE MESSAGE SIGN	ENGINEER'S FIELD OFFICE, TYPE A
		EACH	EACH	CAL DA	L SUM	EACH	CAL DA	CAL MO
EB 1-74	SN 090-0019	1	1	20		1	42	7
	SN 090-0021			20				
	SN 090-0023	1	1	20				
WB 1-74	SN 090-0020			20				
	SN 090-0022	1	1	20				
	SN 090-0024	1	1	20			14	7
TENNESSEE AVE.	SN 090-0084				1		28	
WASHINGTON RD.	SN 090-0075					1	28	
DEE-MAC RD.	SN 090-0077					1	28	
TOTALS =		4	4	120	1	3	140	14

NOTE: TC&P, (SPECIAL) FOR SN 090-0019 IS FOR THE TEMPORARY CLOSURE OF MAIN ST. BELOW THE STRUCTURE.

PREFORMED JOINT SEAL SCHEDULE			
LOCATION	52000025	52000030	52000035
	PREFORMED JOINT SEAL 2"	PREFORMED JOINT SEAL 2 1/2"	PREFORMED JOINT SEAL 2 3/4"
	FOOT	FOOT	FOOT
SN 090-0019	45	45	
SN 090-0020		90	
SN 090-0021		100	
SN 090-0022			100
SN 090-0023	45		45
SN 090-0024	45	45	
TOTALS	135	280	145

NOTE: THESE PREFORMED JOINT SEALS ARE TO BE INSTALLED BETWEEN THE APPROACH PAVEMENT AND THE CONNECTOR PAVEMENT AFTER THE MICROSILICA OVERLAY IS COMPLETED.

TEMPORARY CONCRETE BARRIER & TEMPORARY IMPACT ATTENUATOR SCHEDULE						
LOCATION			70400100	70400200	70600250	70600350
			TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3
			FT	FT	EACH	EACH
STAGE I - I-74						
EB I-74	SN 090-0019	STA. 630+10.00 TO STA. 635+72.50	562.5		1	
EB I-74	SN 090-0021	STA. 639+73.00 TO STA. 645+98.00	625.0		1	
EB I-74 UNDER	SN 090-0084	STA. 684+72.00 TO STA. 687+47.00	275.0		1	
EB I-74 UNDER	SN 090-0075	STA. 763+02.00 TO STA. 765+77.00	275.0		1	
EB I-74	SN 090-0023	STA. 901+04.00 TO STA. 906+79.00	575.0		1	
EB I-74 UNDER	SN 090-0077	STA. 920+48.00 TO STA. 923+23.00	275.0		1	
WB I-74	SN 090-0020	STA. 632+46.50 TO STA. 638+09.00	562.5		1	
WB I-74	SN 090-0022	STA. 642+51.00 TO STA. 648+76.00	625.0		1	
WB I-74 UNDER	SN 090-0084	STA. 686+32.00 TO STA. 689+07.00	275.0		1	
WB I-74 UNDER	SN 090-0075	STA. 764+57.00 TO STA. 767+32.00	275.0		1	
WB I-74	SN 090-0024	STA. 903+60.00 TO STA. 909+35.00	575.0		1	
WB I-74 UNDER	SN 090-0077	STA. 921+98.00 TO STA. 924+73.00	275.0		1	
STAGE II - I-74						
EB I-74	SN 090-0019	STA. 630+10.00 TO STA. 635+72.50		562.5		1
EB I-74	SN 090-0021	STA. 639+73.00 TO STA. 645+98.00		625.0		1
EB I-74	SN 090-0023	STA. 901+04.00 TO STA. 906+79.00		575.0		1
WB I-74	SN 090-0020	STA. 632+46.50 TO STA. 638+09.00		562.5		1
WB I-74	SN 090-0022	STA. 642+51.00 TO STA. 648+76.00		625.0		1
WB I-74	SN 090-0024	STA. 903+60.00 TO STA. 909+35.00		575.0		1
SUB TOTAL - SN 090-0019=			562.5	562.5	1	1
SUB TOTAL - SN 090-0020=			562.5	562.5	1	1
SUB TOTAL - SN 090-0021=			625.0	625.0	1	1
SUB TOTAL - SN 090-0022=			625.0	625.0	1	1
SUB TOTAL - SN 090-0023=			575.0	575.0	1	1
SUB TOTAL - SN 090-0024=			575.0	575.0	1	1
SUB TOTAL - SN 090-0084=			550.0		2	
SUB TOTAL - SN 090-0075=			550.0		2	
SUB TOTAL - SN 090-0077=			550.0		2	
TOTALS =			5175	3525	12	6

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				74	90-15[HB(1-4);VB;BJBP,BJR,BRR]	TAZEWELL	192	12
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -				CONTRACT NO. 68F54				
	PLOT DATE = 10/29/2020	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:			SHEET	OF	SHEETS	STA.	TO STA.				

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TEMPORARY PAVEMENT MARKING SCHEDULE					
LOCATION			70300904	X7030005	
			PAVEMENT MARKING TAPE, TYPE IV 4"	TEMPORARY PAVEMENT MARKING REMOVAL	
			FT	SQ FT	
STAGE I - EB I-74					
SN 090-0019	RT	STA. 614+85.00 TO STA. 624+85.00	1000.0	333.3	
	RT	STA. 624+85.00 TO STA. 629+85.00	500.0	166.7	
	RT & LT	STA. 629+85.00 TO STA. 631+60.00	350.0	116.7	
	RT & LT	STA. 631+60.00 TO STA. 635+72.50	825.0	275.0	
	RT & LT	STA. 635+72.50 TO STA. 636+42.50	140.0	46.7	
SN 090-0021	RT & LT	STA. 636+42.50 TO STA. 640+53.00	821.0	273.7	
	RT & LT	STA. 640+53.00 TO STA. 641+23.00	140.0	46.7	
	RT & LT	STA. 641+23.00 TO STA. 645+98.00	950.0	316.7	
	RT & LT	STA. 645+98.00 TO STA. 647+73.00	350.0	116.7	
SN 090-0084	RT	STA. 647+73.00 TO STA. 670+47.00	2274.0	758.0	
	RT	STA. 670+47.00 TO STA. 680+47.00	1000.0	333.3	
	RT	STA. 680+47.00 TO STA. 685+47.00	500.0	166.7	
	RT	STA. 685+47.00 TO STA. 687+97.00	250.0	83.3	
SN 090-0075	RT	STA. 687+97.00 TO STA. 748+77.00	6080.0	2026.7	
	RT	STA. 748+77.00 TO STA. 758+77.00	1000.0	333.3	
	RT	STA. 758+77.00 TO STA. 763+77.00	500.0	166.7	
	RT	STA. 763+77.00 TO STA. 766+27.00	250.0	83.3	
SN 090-0023	RT	STA. 885+79.00 TO STA. 895+79.00	1000.0	333.3	
	RT	STA. 895+79.00 TO STA. 900+79.00	500.0	166.7	
	RT & LT	STA. 900+79.00 TO STA. 902+54.00	350.0	116.7	
	RT & LT	STA. 902+54.00 TO STA. 906+79.00	850.0	283.3	
	RT & LT	STA. 906+79.00 TO STA. 908+54.00	350.0	116.7	
SN 090-0077	RT	STA. 908+54.00 TO STA. 916+23.00	769.0	256.3	
	RT	STA. 916+23.00 TO STA. 921+23.00	500.0	166.7	
	RT	STA. 921+23.00 TO STA. 923+73.00	250.0	83.3	
STAGE I - WB I-74					
SN 090-0020	RT & LT	STA. 630+71.50 TO STA. 632+46.50	350.0	116.7	
	RT & LT	STA. 632+46.50 TO STA. 636+59.00	825.0	275.0	
	RT & LT	STA. 636+59.00 TO STA. 637+29.00	140.0	46.7	
	RT & LT	STA. 637+29.00 TO STA. 641+81.00	904.0	301.3	
SN 090-0022	RT & LT	STA. 641+81.00 TO STA. 642+51.00	140.0	46.7	
	RT & LT	STA. 642+51.00 TO STA. 647+26.00	950.0	316.7	
	RT & LT	STA. 647+26.00 TO STA. 649+01.00	350.0	116.7	
	LT	STA. 649+01.00 TO STA. 654+01.00	500.0	166.7	
	LT	STA. 654+01.00 TO STA. 664+01.00	1000.0	333.3	
SN 090-0084	LT	STA. 664+01.00 TO STA. 685+82.00	2181.0	727.0	
	LT	STA. 685+82.00 TO STA. 688+32.00	250.0	83.3	
	LT	STA. 688+32.00 TO STA. 693+32.00	500.0	166.7	
	LT	STA. 693+32.00 TO STA. 703+32.00	1000.0	333.3	
SN 090-0075	LT	STA. 703+32.00 TO STA. 764+07.00	6075.0	2025.0	
	LT	STA. 764+07.00 TO STA. 766+57.00	250.0	83.3	
	LT	STA. 766+57.00 TO STA. 771+57.00	500.0	166.7	
	LT	STA. 771+57.00 TO STA. 781+57.00	1000.0	333.3	
SN 090-0024	RT & LT	STA. 901+85.00 TO STA. 903+60.00	350.0	116.7	
	RT & LT	STA. 903+60.00 TO STA. 907+85.00	850.0	283.3	
	RT & LT	STA. 907+85.00 TO STA. 909+60.00	350.0	116.7	
	LT	STA. 909+60.00 TO STA. 921+48.00	1188.0	396.0	
SN 090-0077	LT	STA. 921+48.00 TO STA. 923+98.00	250.0	83.3	
	LT	STA. 923+98.00 TO STA. 928+98.00	500.0	166.7	
	LT	STA. 928+98.00 TO STA. 938+98.00	1000.0	333.3	

TEMPORARY PAVEMENT MARKING SCHEDULE (CONT'D)					
LOCATION			70300904	X7030005	
			PAVEMENT MARKING TAPE, TYPE IV 4"	TEMPORARY PAVEMENT MARKING REMOVAL	
			FT	SQ FT	
STAGE II - EB I-74					
SN 090-0019	LT	STA. 614+85.00 TO STA. 624+85.00	1000.0	333.3	
	LT	STA. 624+85.00 TO STA. 629+85.00	500.0	166.7	
	LT & RT	STA. 629+85.00 TO STA. 631+60.00	350.0	116.7	
	LT & RT	STA. 631+60.00 TO STA. 636+22.50	925.0	308.3	
	LT & RT	STA. 636+22.50 TO STA. 641+23.00	1001.0	333.7	
SN 090-0021	LT & RT	STA. 641+23.00 TO STA. 646+48.00	1050.0	350.0	
	LT & RT	STA. 646+48.00 TO STA. 648+23.00	350.0	116.7	
	LT	STA. 648+23.00 TO STA. 671+22.00	2299.0	766.3	
SN 090-0084	LT	STA. 671+22.00 TO STA. 681+22.00	1000.0	333.3	
	LT	STA. 681+22.00 TO STA. 686+22.00	500.0	166.7	
	LT	STA. 686+22.00 TO STA. 687+57.00	135.0	45.0	
SN 090-0075	LT	STA. 687+57.00 TO STA. 749+50.00	6193.0	2064.3	
	LT	STA. 749+50.00 TO STA. 759+50.00	1000.0	333.3	
	LT	STA. 759+50.00 TO STA. 764+50.00	500.0	166.7	
	LT	STA. 764+50.00 TO STA. 765+85.00	135.0	45.0	
SN 090-0023	LT	STA. 885+79.00 TO STA. 895+79.00	1000.0	333.3	
	LT	STA. 895+79.00 TO STA. 900+79.00	500.0	166.7	
	LT & RT	STA. 900+79.00 TO STA. 902+54.00	350.0	116.7	
	LT & RT	STA. 902+54.00 TO STA. 907+29.00	950.0	316.7	
SN 090-0077	LT & RT	STA. 907+29.00 TO STA. 909+04.00	350.0	116.7	
	LT	STA. 909+04.00 TO STA. 916+98.00	794.0	264.7	
	LT	STA. 916+98.00 TO STA. 921+98.00	500.0	166.7	
	LT	STA. 921+98.00 TO STA. 923+23.00	125.0	41.7	
STAGE II - WB I-74					
SN 090-0020	LT & RT	STA. 630+21.50 TO STA. 631+96.50	350.0	116.7	
	LT & RT	STA. 631+96.50 TO STA. 636+59.00	925.0	308.3	
	LT & RT	STA. 636+59.00 TO STA. 642+01.00	1084.0	361.3	
SN 090-0022	LT & RT	STA. 642+01.00 TO STA. 647+26.00	1050.0	350.0	
	LT & RT	STA. 647+26.00 TO STA. 649+01.00	350.0	116.7	
	RT	STA. 649+01.00 TO STA. 654+01.00	500.0	166.7	
	RT	STA. 654+01.00 TO STA. 664+01.00	1000.0	333.3	
SN 090-0084	RT	STA. 664+01.00 TO STA. 685+72.00	2171.0	723.7	
	RT	STA. 685+72.00 TO STA. 687+57.00	185.0	61.7	
	RT	STA. 687+57.00 TO STA. 692+57.00	500.0	166.7	
	RT	STA. 692+57.00 TO STA. 702+57.00	1000.0	333.3	
SN 090-0075	RT	STA. 702+57.00 TO STA. 764+02.00	6145.0	2048.3	
	RT	STA. 764+02.00 TO STA. 765+82.00	180.0	60.0	
	RT	STA. 765+82.00 TO STA. 770+82.00	500.0	166.7	
	RT	STA. 770+82.00 TO STA. 780+82.00	1000.0	333.3	
SN 090-0024	LT & RT	STA. 901+35.00 TO STA. 903+10.00	350.0	116.7	
	LT & RT	STA. 903+10.00 TO STA. 907+85.00	950.0	316.7	
	LT & RT	STA. 907+85.00 TO STA. 909+60.00	350.0	116.7	
	RT	STA. 909+60.00 TO STA. 921+48.00	1188.0	396.0	
SN 090-0077	RT	STA. 921+48.00 TO STA. 923+23.00	175.0	58.3	
	RT	STA. 923+23.00 TO STA. 928+23.00	500.0	166.7	
	RT	STA. 928+23.00 TO STA. 938+23.00	1000.0	333.3	
SUB TOTAL - SN 090-0019=			5590	1863	
SUB TOTAL - SN 090-0020=			4578	1526	
SUB TOTAL - SN 090-0021=			4662	1554	
SUB TOTAL - SN 090-0022=			5840	1947	
SUB TOTAL - SN 090-0023=			6200	2067	
SUB TOTAL - SN 090-0024=			5576	1859	
SUB TOTAL - SN 090-0084=			15745	5248	
SUB TOTAL - SN 090-0075=			31308	10436	
SUB TOTAL - SN 090-0077=			6363	2121	
TOTALS =			85862	28621	

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					74	90-15[HB(1-4);VB;BJBP,BJR,BRR	TAZEWELL	192	13
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68F54				
	PLOT DATE = 10/29/2020	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		

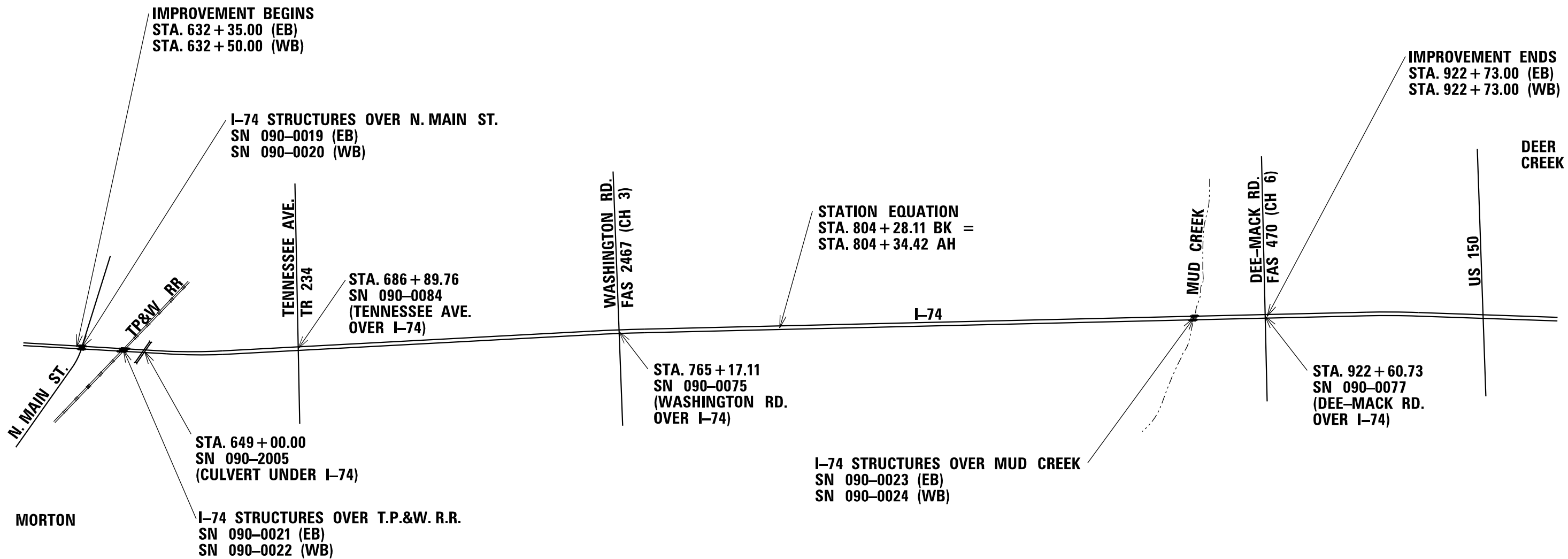
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SHORT TERM PAVEMENT MARKING SCHEDULE			
LOCATION		70300100	70300150
		SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL
I-74 EB		FT	SQ FT
SN 090-0019	LT STA. 629+75.00 TO STA. 632+95.00	12.0	4.0
	RT STA. 629+75.00 TO STA. 632+95.00	12.0	4.0
	LT STA. 635+10.00 TO STA. 639+00.00	16.0	5.3
	RT STA. 635+10.00 TO STA. 639+00.00	16.0	5.3
SN 090-0021	LT STA. 639+00.00 TO STA. 642+58.00	16.0	5.3
	RT STA. 639+00.00 TO STA. 642+58.00	16.0	5.3
	LT STA. 645+36.25 TO STA. 647+83.00	12.0	4.0
	RT STA. 645+36.25 TO STA. 648+33.00	12.0	4.0
SN 090-0023	LT STA. 900+69.00 TO STA. 904+05.00	16.0	5.3
	RT STA. 900+69.00 TO STA. 903+89.00	12.0	4.0
	LT STA. 906+15.00 TO STA. 908+64.00	12.0	4.0
	RT STA. 906+00.00 TO STA. 909+14.00	12.0	4.0
I-74 WB			
SN 090-0020	LT STA. 630+11.50 TO STA. 633+10.00	12.0	4.0
	RT STA. 630+61.50 TO STA. 633+10.00	12.0	4.0
	LT STA. 635+24.00 TO STA. 639+00.00	16.0	5.3
	RT STA. 635+24.00 TO STA. 639+00.00	16.0	5.3
SN 090-0022	LT STA. 639+00.00 TO STA. 643+12.00	16.0	5.3
	RT STA. 639+00.00 TO STA. 643+12.00	16.0	5.3
	LT STA. 645+91.00 TO STA. 649+11.00	12.0	4.0
	RT STA. 645+91.00 TO STA. 649+11.00	12.0	4.0
SN 090-0024	LT STA. 901+25.00 TO STA. 904+40.50	12.0	4.0
	RT STA. 901+75.00 TO STA. 904+24.50	12.0	4.0
	LT STA. 906+50.00 TO STA. 909+70.00	12.0	4.0
	RT STA. 906+34.00 TO STA. 909+70.00	16.0	5.3
SUB TOTAL - SN 090-0019=		56	19
SUB TOTAL - SN 090-0020=		56	19
SUB TOTAL - SN 090-0021=		56	19
SUB TOTAL - SN 090-0022=		56	19
SUB TOTAL - SN 090-0023=		52	17
SUB TOTAL - SN 090-0024=		52	17
TOTAL =		328	110

PAVEMENT MARKING SCHEDULE							
LOCATION				X0327980	78009004		78009006
				PAVEMENT MARKING REMOVAL - WATER BLASTING	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
					(WHITE)	(YELLOW)	
STAGE I EB I-74				SQ FT	FT	FT	FT
SN 090-0019	CL	STA. 614+85.00 TO STA. 624+85.00		125.0			
	LT	STA. 632+95.00 TO STA. 635+10.00		71.7			
SN 090-0021	LT	STA. 642+58.00 TO STA. 645+36.25		92.8			
SN 090-0023	CL	STA. 885+79.00 TO STA. 895+79.00		125.0			
	LT	STA. 904+05.00 TO STA. 906+15.00		70.0			
STAGE I WB I-74							
SN 090-0020	RT	STA. 633+10.00 TO STA. 635+24.00		71.3			
SN 090-0022	RT	STA. 643+12.00 TO STA. 645+91.00		93.0			
SN 090-0075	CL	STA. 771+57.00 TO STA. 781+57.00		125.0			250.0
SN 090-0024	RT	STA. 904+24.50 TO STA. 906+34.00		69.8			
SN 090-0077	CL	STA. 928+98.00 TO STA. 938+98.00		125.0			250.0
SN 090-0022	CL***	STA. 654+01.00 TO STA. 664+01.00		125.0			
STAGE II WB I-74							
SN 090-0075	CL	STA. 770+82.00 TO STA. 780+82.00		125.0			250.0
SN 090-0077	CL	STA. 928+23.00 TO STA. 938+23.00		125.0			250.0
PERMANENT PAVEMENT MARKING							
EB I-74							
SN 090-0019	CL	STA. 614+85.00 TO STA. 624+85.00					250.0
	LT & RT	STA. 629+75.00 TO STA. 639+00.00			925.0	925.0	
	CL	STA. 632+35.00 TO STA. 635+70.00					83.8
SN 090-0021	LT	STA. 639+00.00 TO STA. 647+83.00				883.0	
	RT	STA. 639+00.00 TO STA. 648+33.00			933.0		
	CL	STA. 641+98.00 TO STA. 645+96.25					99.6
SN 090-0023	CL	STA. 885+79.00 TO STA. 895+79.00					250.0
	LT	STA. 900+69.00 TO STA. 908+64.00				795.0	
	RT	STA. 900+69.00 TO STA. 909+14.00			845.0		
	CL	STA. 903+38.00 TO STA. 906+70.00					83.0
WB I-74							
SN 090-0020	LT	STA. 630+11.50 TO STA. 639+00.00			888.5		
	RT	STA. 630+61.50 TO STA. 639+00.00				838.5	
	CL	STA. 632+50.00 TO STA. 635+84.00					83.5
SN 090-0022	LT & RT	STA. 639+00.00 TO STA. 649+11.00			1011.0	1011.0	
	CL	STA. 642+52.00 TO STA. 646+51.00					99.8
	CL	STA. 654+01.00 TO STA. 664+01.00					250.0
SN 090-0024	LT	STA. 901+25.00 TO STA. 909+70.00			845.0		
	RT	STA. 901+75.00 TO STA. 909+70.00				795.0	
	CL	STA. 903+71.00 TO STA. 907+01.00					82.5
SUB TOTAL - SN 090-0019=				197	925	925	334
SUB TOTAL - SN 090-0020=				71	888.5	838.5	84
SUB TOTAL - SN 090-0021=				93	933	883	100
SUB TOTAL - SN 090-0022=				218	1011	1011	350
SUB TOTAL - SN 090-0023=				195	845	795	333
SUB TOTAL - SN 090-0024=				70	845	795	83
SUB TOTAL - SN 090-0075=				250			500
SUB TOTAL - SN 090-0077=				250			500
TOTAL =				1344	10695		2284

***WHEN WORK AT OVERHEAD STRUCTURES IS COMPLETED THE LIMITS OF THE LANE CLOSURE SHALL BE ADJUSTED.

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					74	90-15[HB(1-4);VB;BJBP,BJR,BRR	TAZEWELL	192	14
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	PLOT DATE = 10/29/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



NOT TO SCALE

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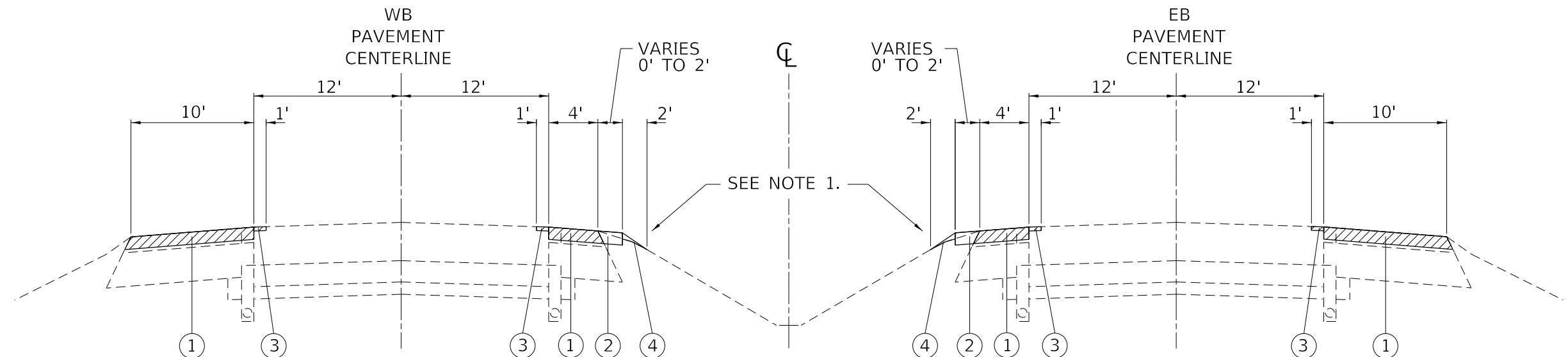
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PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LINE DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;BJBP,BJR,BRR	TAZEWELL	192	15
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



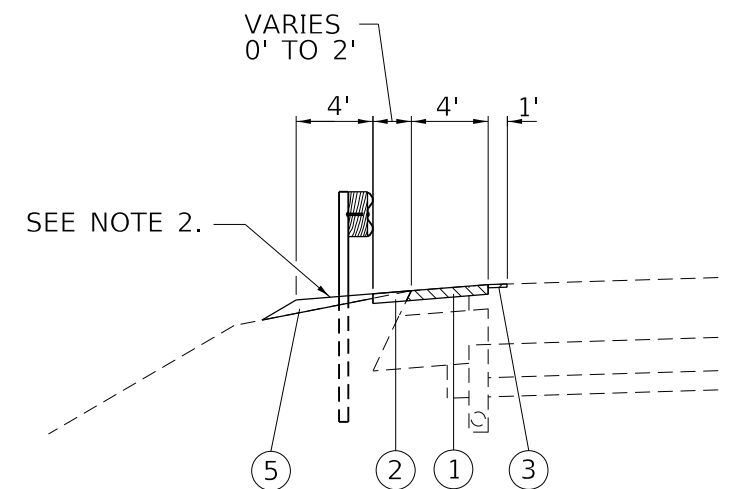
PRE-STAGE

LEGEND

- ① PROP. HMA SURFACE REMOVAL, 6" AND PROP. HMA SHOULDERS (6")
- ② PROP. EARTH EXCAVATION FOR WIDENING AND PROP. HMA SHOULDERS (6")
- ③ PROP. HMA SURFACE REMOVAL, 2" AND PROP. HMA SHOULDERS (2")
- ④ PROP. AGGREGATE SHOULDER WEDGE, TY. B
- ⑤ PROP. GUARDRAIL AGGREGATE EROSION CONTROL

NOTES

1. IF A 1:4 (V:H) OR FLATTER SLOPE CANNOT BE ATTAINED WITH THE PROPOSED AGGREGATE WEDGE SHOULDER, TY. B, THE CONTRACTOR SHALL BUILD EMBANKMENT ON THE FORESLOPE AS DIRECTED BY THE ENGINEER TO ALLOW FOR A 1:4 FORESLOPE. EMBANKMENT WORK SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
2. PROP. GUARDRAIL AGGREGATE EROSION CONTROL SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO FILL LOW AREAS. NO FABRIC IS REQUIRED.



TYPICAL TREATMENT ON INSIDE SHOULDER WITH GUARDRAIL

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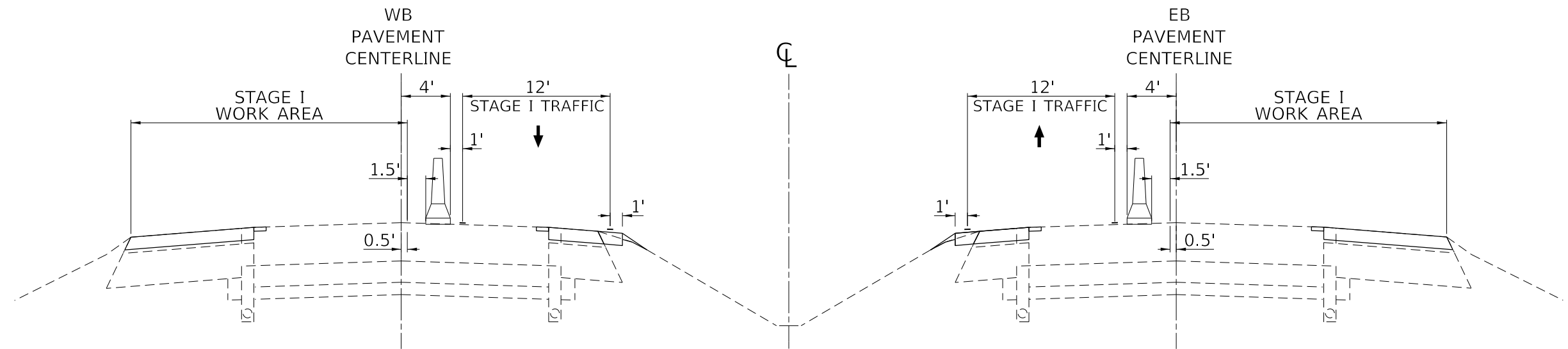
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

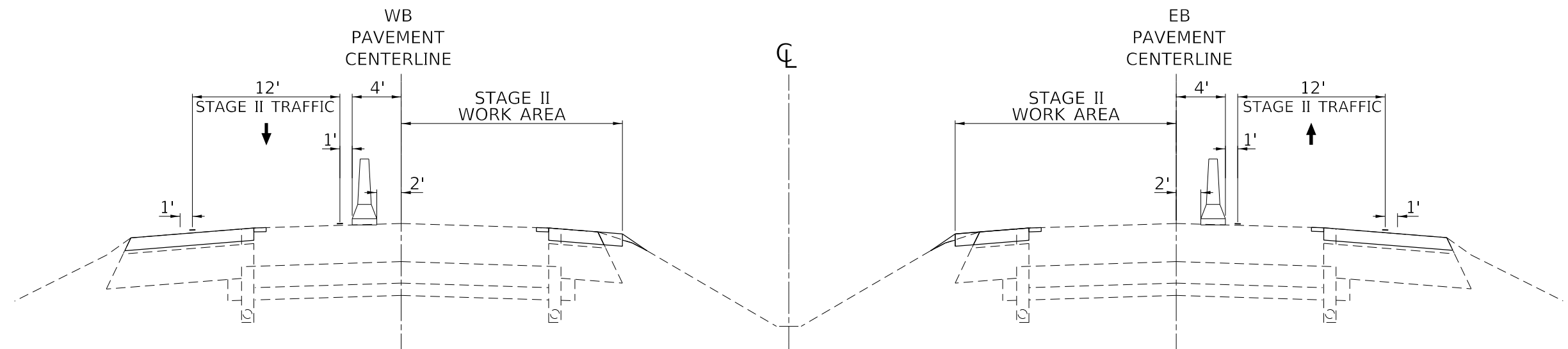
STAGING DETAILS PRE-STAGE TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4):VB:B BP,B J,R,BRR	TAZEWELL	192	16
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



STAGE I



STAGE II

NOTES

1. THESE TYPICAL SECTIONS ARE INTENDED TO ONLY SHOW PROPOSED TRAFFIC CONTROL LAYOUT ON THE ROADWAY APPROACHING AND DEPARTING THE STRUCTURES.
2. EXISTING AND PROPOSED GUARDRAIL ARE NOT SHOWN ON THESE TYPICAL SECTIONS.

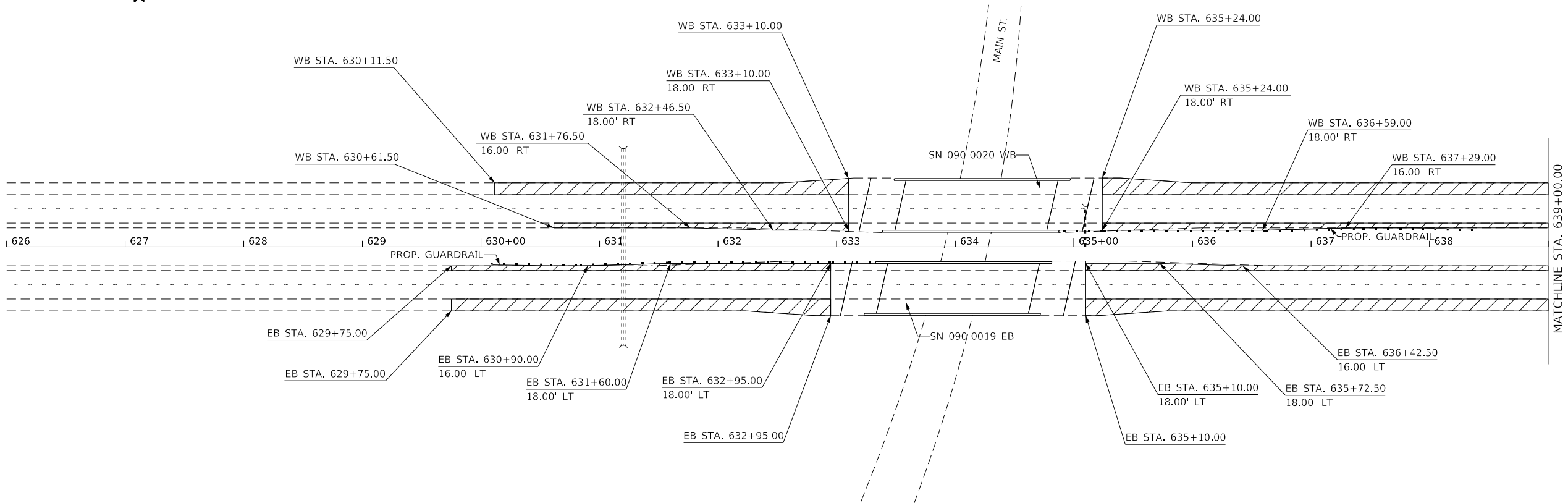
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DRAWN -	REVISED -	
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PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS			
STAGES I & II TYPICAL SECTIONS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

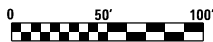
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CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



LEGEND:



PROPOSED HMA SHOULDERS



NOTES:

1. OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT TO THE OUTSIDE EDGE OF PROPOSED HMA SHOULDERS.
2. 0' - 2' OF WIDENING OF THE INSIDE SHOULDER IS REQUIRED IN SOME AREAS.
3. EXISTING GUARDRAIL OMITTED FOR CLARITY.
4. SEE GUARDRAIL DETAILS.
5. USE TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701401 TO COMPLETE THIS WORK. THE WIDTH OF THE OPEN LANE SHALL NOT BE REDUCED DURING PRE-STAGE WORK.

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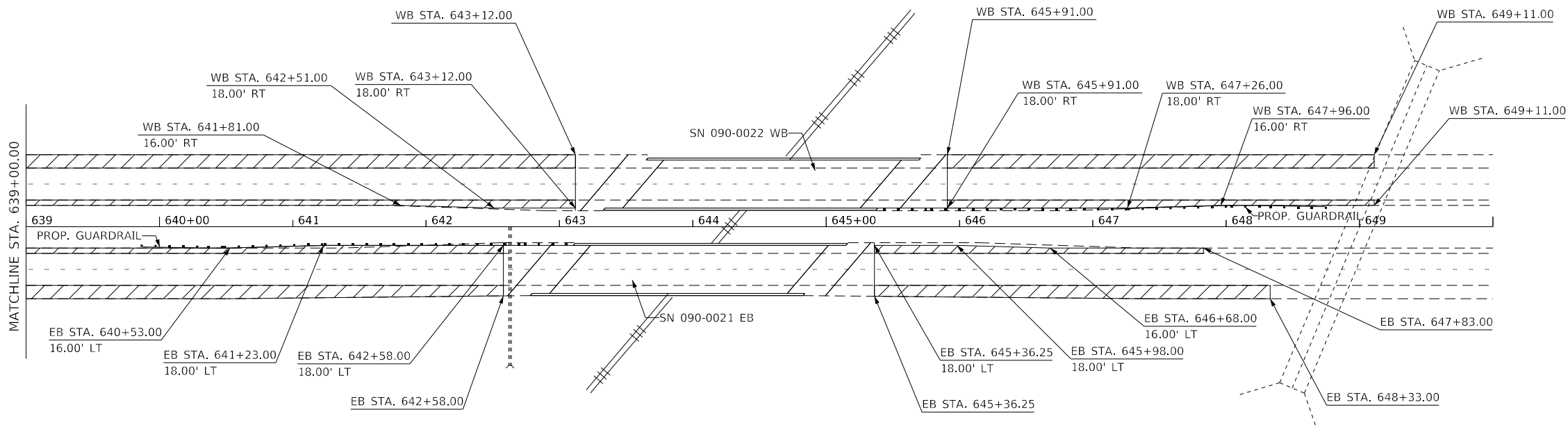
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
PRE-STAGE PLAN

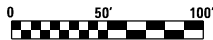
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B BP,B J,BRR	TAZEWELL	192	18
CONTRACT NO. 68F54				
		ILLINOIS	FED. AID PROJECT	



LEGEND:

 PROPOSED HMA SHOULDERS



NOTES:

1. OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT TO THE OUTSIDE EDGE OF PROPOSED HMA SHOULDERS.
2. 0' - 2' OF WIDENING OF THE INSIDE SHOULDER IS REQUIRED IN SOME AREAS.
3. EXISTING GUARDRAIL OMITTED FOR CLARITY.
4. SEE GUARDRAIL DETAILS.
5. USE TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701401 TO COMPLETE THIS WORK. THE WIDTH OF THE OPEN LANE SHALL NOT BE REDUCED DURING PRE-STAGE WORK.

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PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

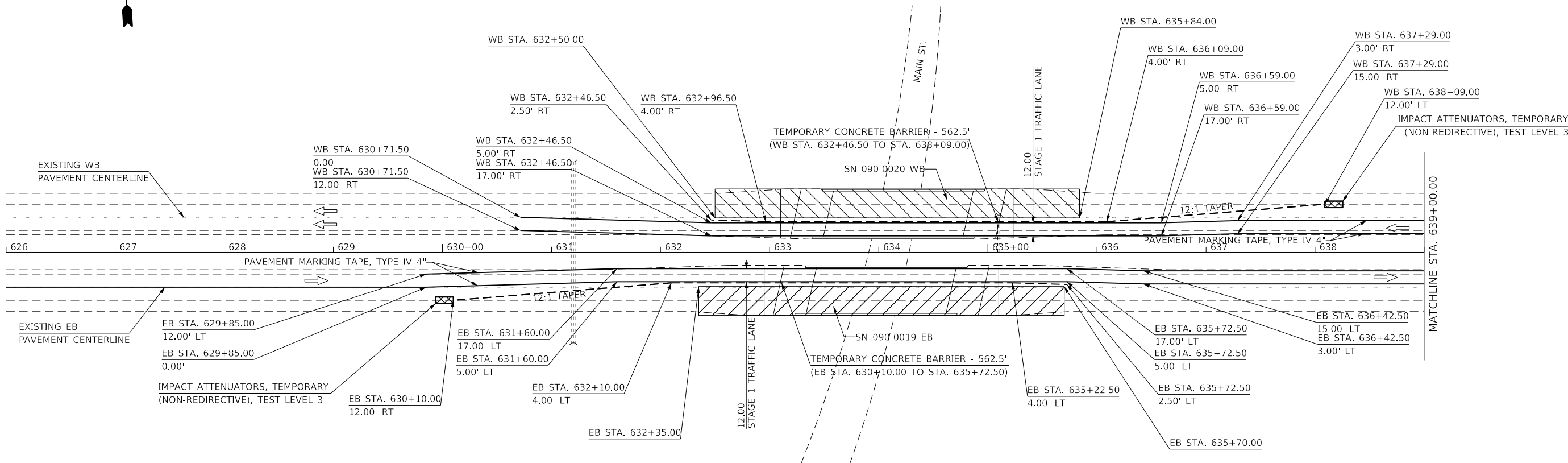
STAGING DETAILS
PRE-STAGE PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F54				
ILLINOIS		FED. AID PROJECT		

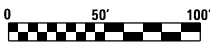


	USER NAME = dlazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAILS PRE-STAGE PLAN				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	20
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	PLOT DATE = 10/29/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			



LEGEND:

- WORK AREA
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER



- NOTES:**
- OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT.
 - OFFSETS TO THE TEMPORARY CONCRETE BARRIER ARE MEASURED TO THE TRAFFIC FACE OF THE BARRIER.
 - TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND IN ACCORDANCE WITH DETAILS ON THIS SHEET.
 - GUARDRAIL OMITTED FOR CLARITY.
 - THE ROADWAY APPROACHES SHOWN IN THE WORK AREAS ON THIS SHEET SHALL BE PATCHED (AS NEEDED), MILLED, AND RESURFACED. SEE PAVEMENT TRANSITION DETAILS.

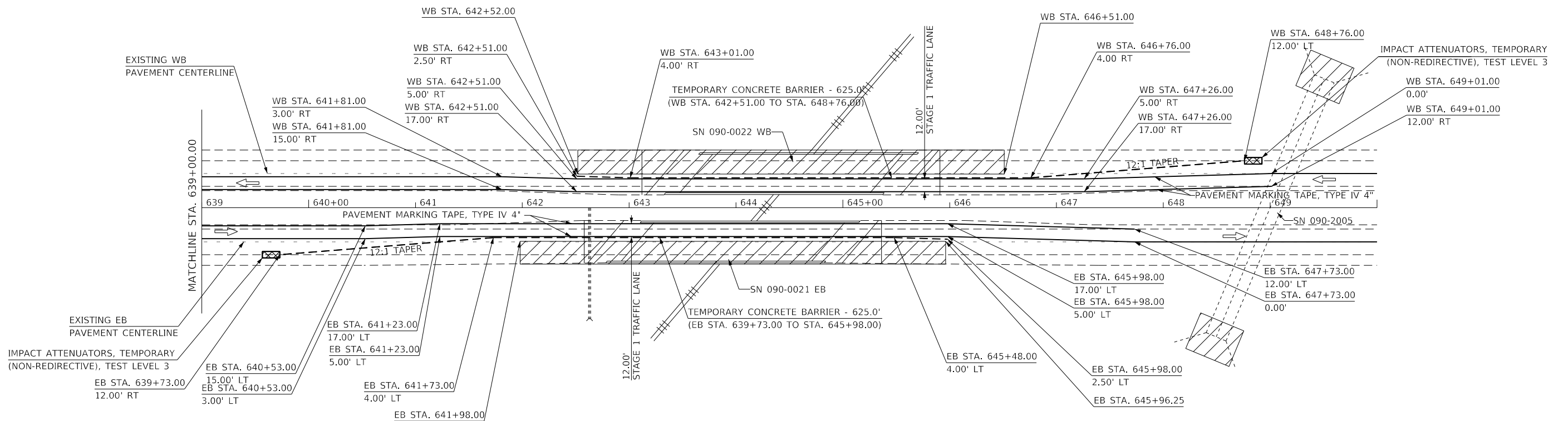
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PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS STAGE I PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B BP,B B,BRR	TAZEWELL	192	21
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



LEGEND:

- WORK AREA
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER



NOTES:

- OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT.
- OFFSETS TO THE TEMPORARY CONCRETE BARRIER ARE MEASURED TO THE TRAFFIC FACE OF THE BARRIER.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND IN ACCORDANCE WITH DETAILS ON THIS SHEET.
- GUARDRAIL OMITTED FOR CLARITY.
- THE ROADWAY APPROACHES SHOWN IN THE WORK AREAS ON THIS SHEET SHALL BE PATCHED (AS NEEDED), MILLED, AND RESURFACED. SEE PAVEMENT TRANSITION DETAILS.

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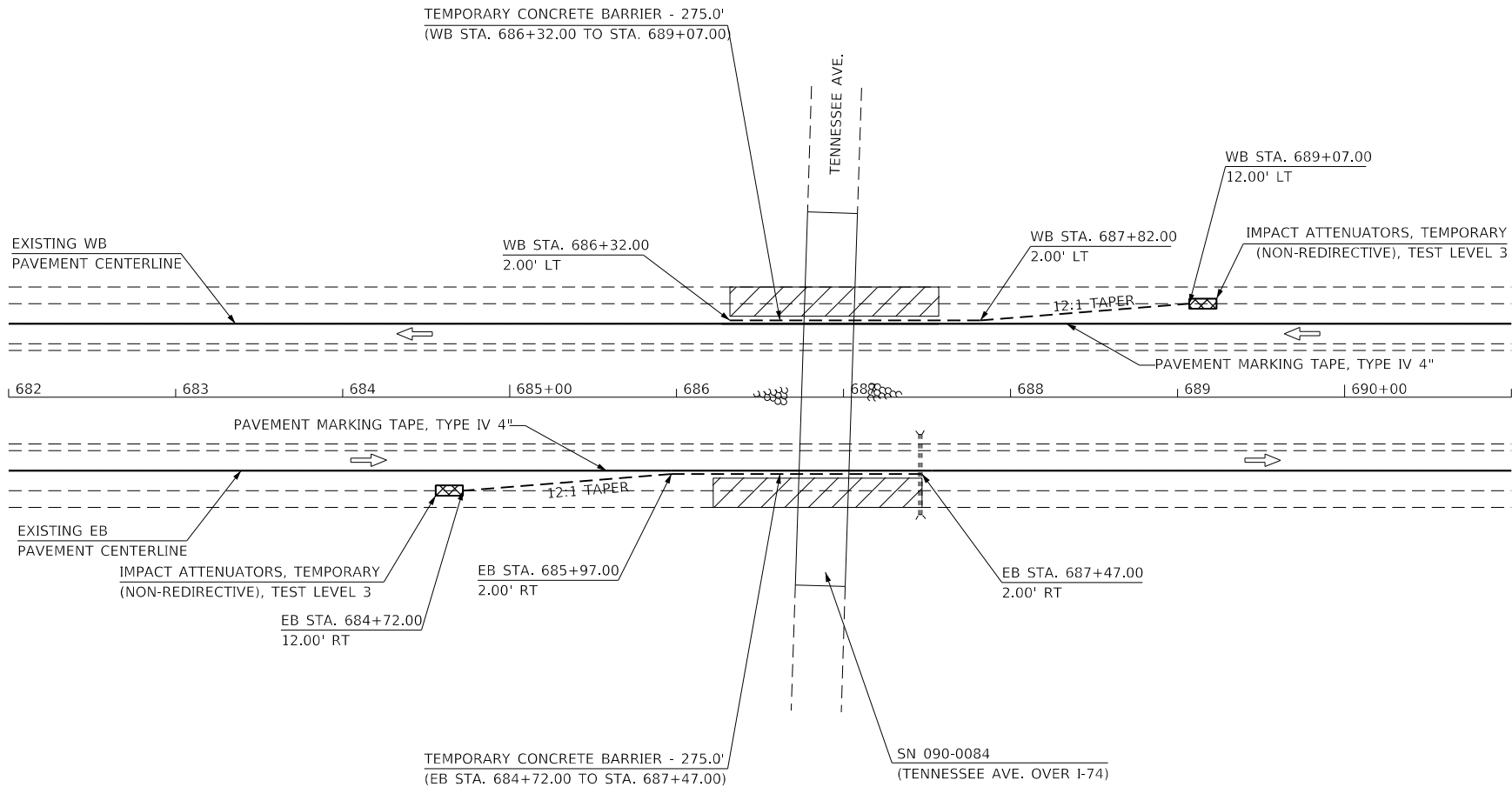
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PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
STAGE I PLAN

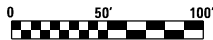
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;BJBP,BJR,BRR	TAZEWELL	192	22
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



LEGEND:

-  WORK AREA
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER



NOTES:

1. OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT.
2. OFFSETS TO THE TEMPORARY CONCRETE BARRIER ARE MEASURED TO THE TRAFFIC FACE OF THE BARRIER.
3. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND IN ACCORDANCE WITH DETAILS ON THIS SHEET.
4. GUARDRAIL OMITTED FOR CLARITY.

MODEL: Default
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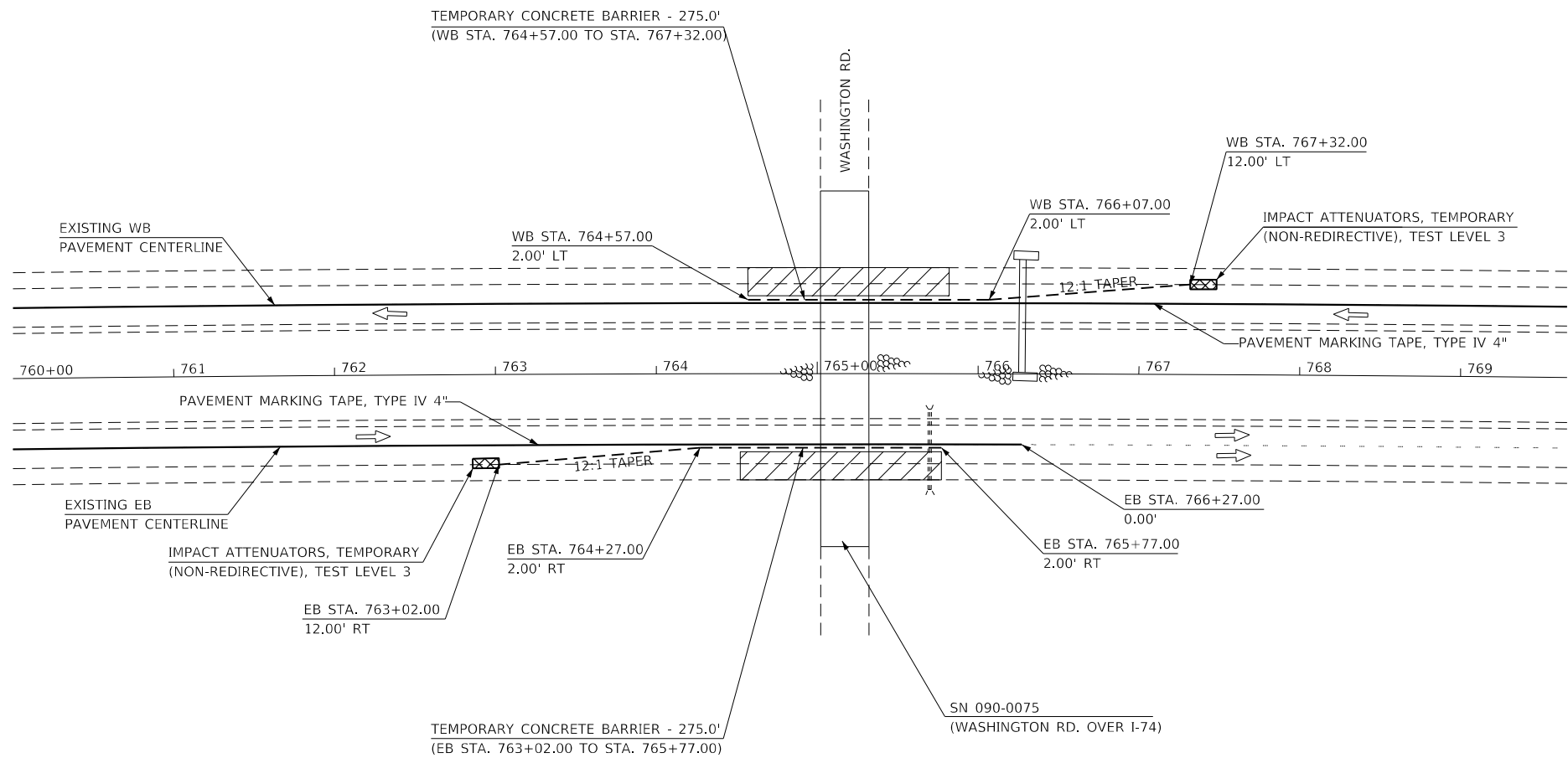
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	DRAWN -	REVISED -
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PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
STAGE I PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;BJBP,BJR,BRR	TAZEWELL	192	23
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



LEGEND:



WORK AREA



IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



TEMPORARY CONCRETE BARRIER



NOTES:

- OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT.
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- GUARDRAIL OMITTED FOR CLARITY.

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	DRAWN -	REVISED -
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PLOT DATE = 10/29/2020	DATE -	REVISED -

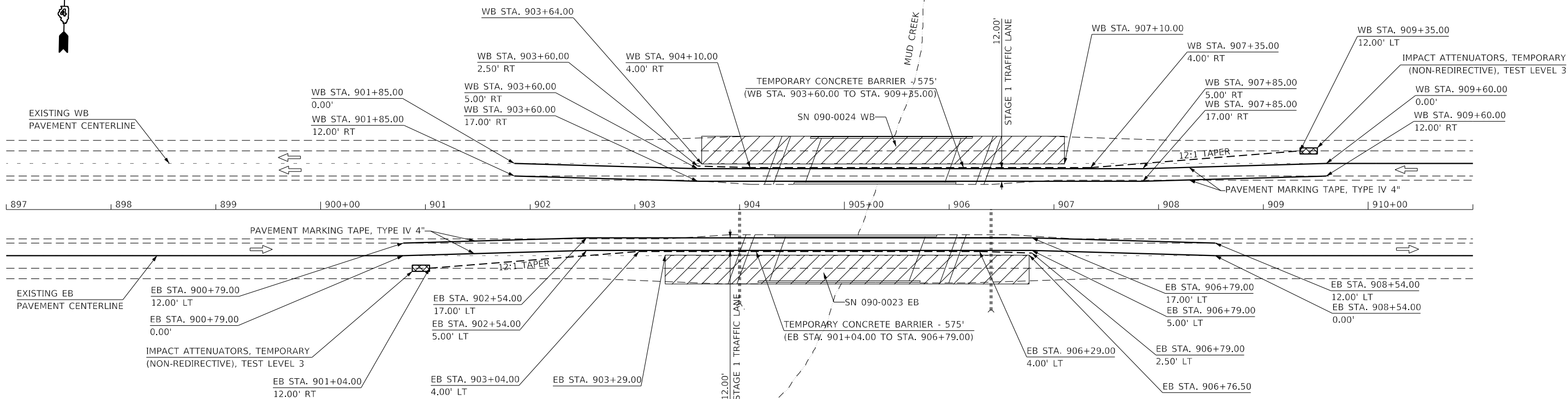
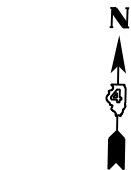
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
STAGE I PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

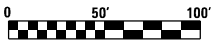
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4)):VB:B BP,B J,R,BRR	TAZEWELL	192	24
CONTRACT NO. 68F54				
		ILLINOIS	FED. AID PROJECT	

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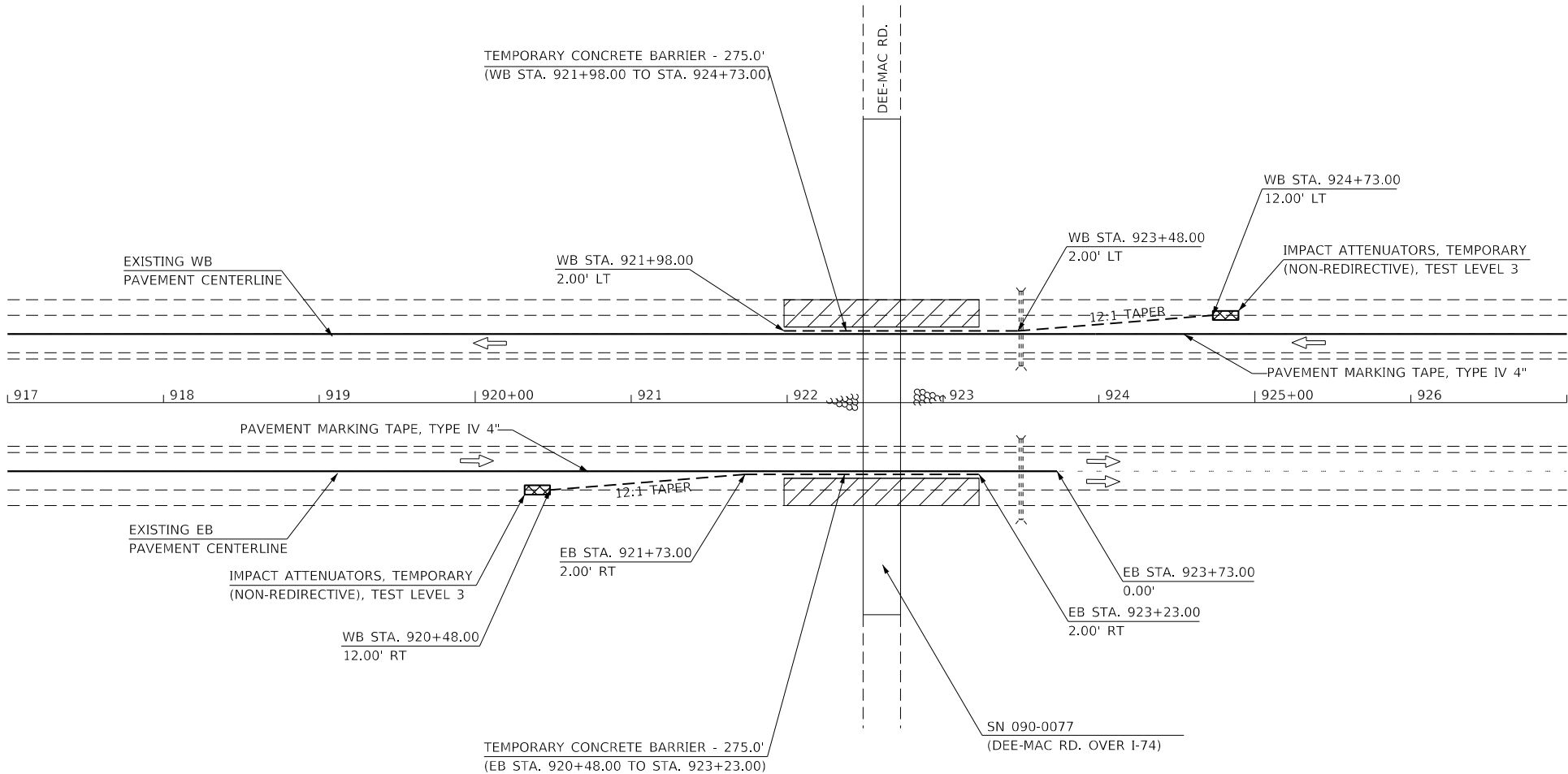
- WORK AREA
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER



NOTES:

- OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT.
- OFFSETS TO THE TEMPORARY CONCRETE BARRIER ARE MEASURED TO THE TRAFFIC FACE OF THE BARRIER.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND IN ACCORDANCE WITH DETAILS ON THIS SHEET.
- GUARDRAIL OMITTED FOR CLARITY.
- THE ROADWAY APPROACHES SHOWN IN THE WORK AREAS ON THIS SHEET SHALL BE PATCHED (AS NEEDED), MILLED, AND RESURFACED. SEE PAVEMENT TRANSITION DETAILS.

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAILS STAGE I PLAN				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						74	90-15(HB(1-4);VB;BIBP,BJR,BRR	TAZEWELL	192	25
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	PLOT DATE = 10/29/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS	FED. AID PROJECT



LEGEND:



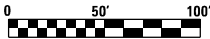
WORK AREA



IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



TEMPORARY CONCRETE BARRIER



NOTES:

- OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT.
- OFFSETS TO THE TEMPORARY CONCRETE BARRIER ARE MEASURED TO THE TRAFFIC FACE OF THE BARRIER.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND IN ACCORDANCE WITH DETAILS ON THIS SHEET.
- GUARDRAIL OMITTED FOR CLARITY.

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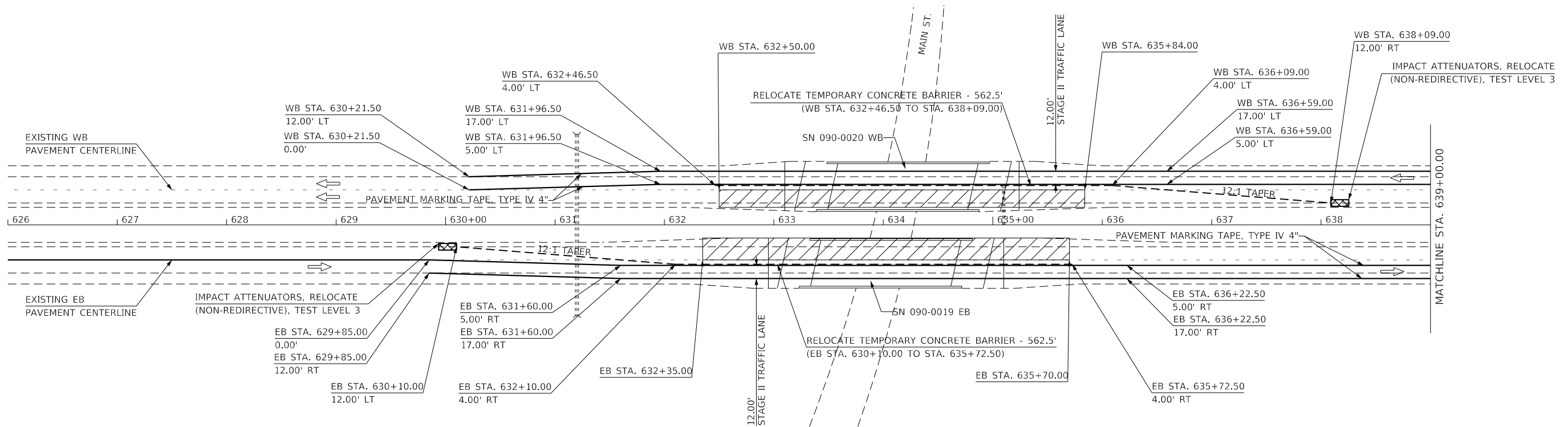
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PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
STAGE I PLAN

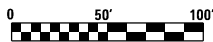
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;BJBP,BJR,BRR	TAZEWELL	192	26
CONTRACT NO. 68F54				
		ILLINOIS	FED. AID PROJECT	



LEGEND:

- WORK AREA
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER



NOTES:

- OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT.
- OFFSETS TO THE TEMPORARY CONCRETE BARRIER ARE MEASURED TO THE TRAFFIC FACE OF THE BARRIER.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND IN ACCORDANCE WITH DETAILS ON THIS SHEET.
- GUARDRAIL OMITTED FOR CLARITY.
- THE ROADWAY APPROACHES SHOWN IN THE WORK AREAS ON THIS SHEET SHALL BE PATCHED (AS NEEDED), MILLED, AND RESURFACED. SEE PAVEMENT TRANSITION DETAILS.

MODEL: Default
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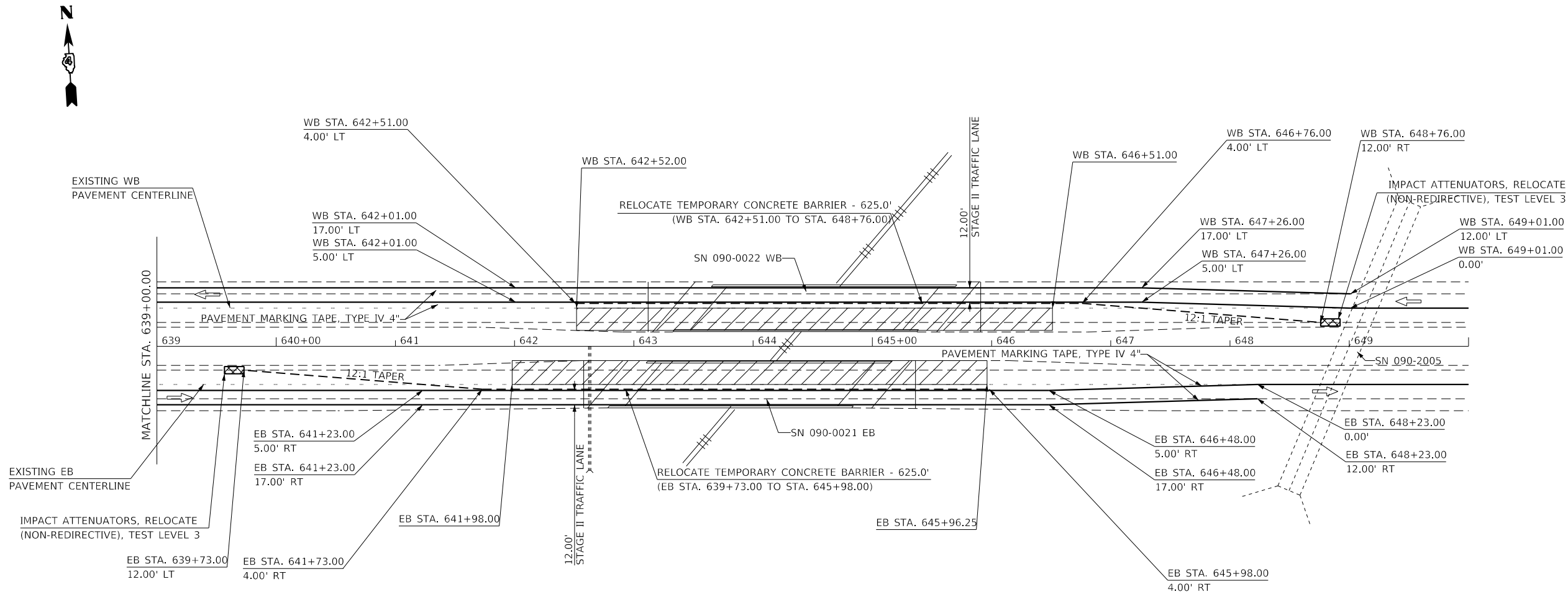
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PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
STAGE II PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;BJBP,BJR,BRR	TAZEWELL	192	27
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



LEGEND:

WORK AREA

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

TEMPORARY CONCRETE BARRIER



- NOTES:
1.

OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT.
2.

OFFSETS TO THE TEMPORARY CONCRETE BARRIER ARE MEASURED TO THE TRAFFIC FACE OF THE BARRIER.
3.

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND IN ACCORDANCE WITH DETAILS ON THIS SHEET.
4.

GUARDRAIL OMITTED FOR CLARITY.
5.

THE ROADWAY APPROACHES SHOWN IN THE WORK AREAS ON THIS SHEET SHALL BE PATCHED (AS NEEDED), MILLED, AND RESURFACED. SEE PAVEMENT TRANSITION DETAILS.

MODEL: Default
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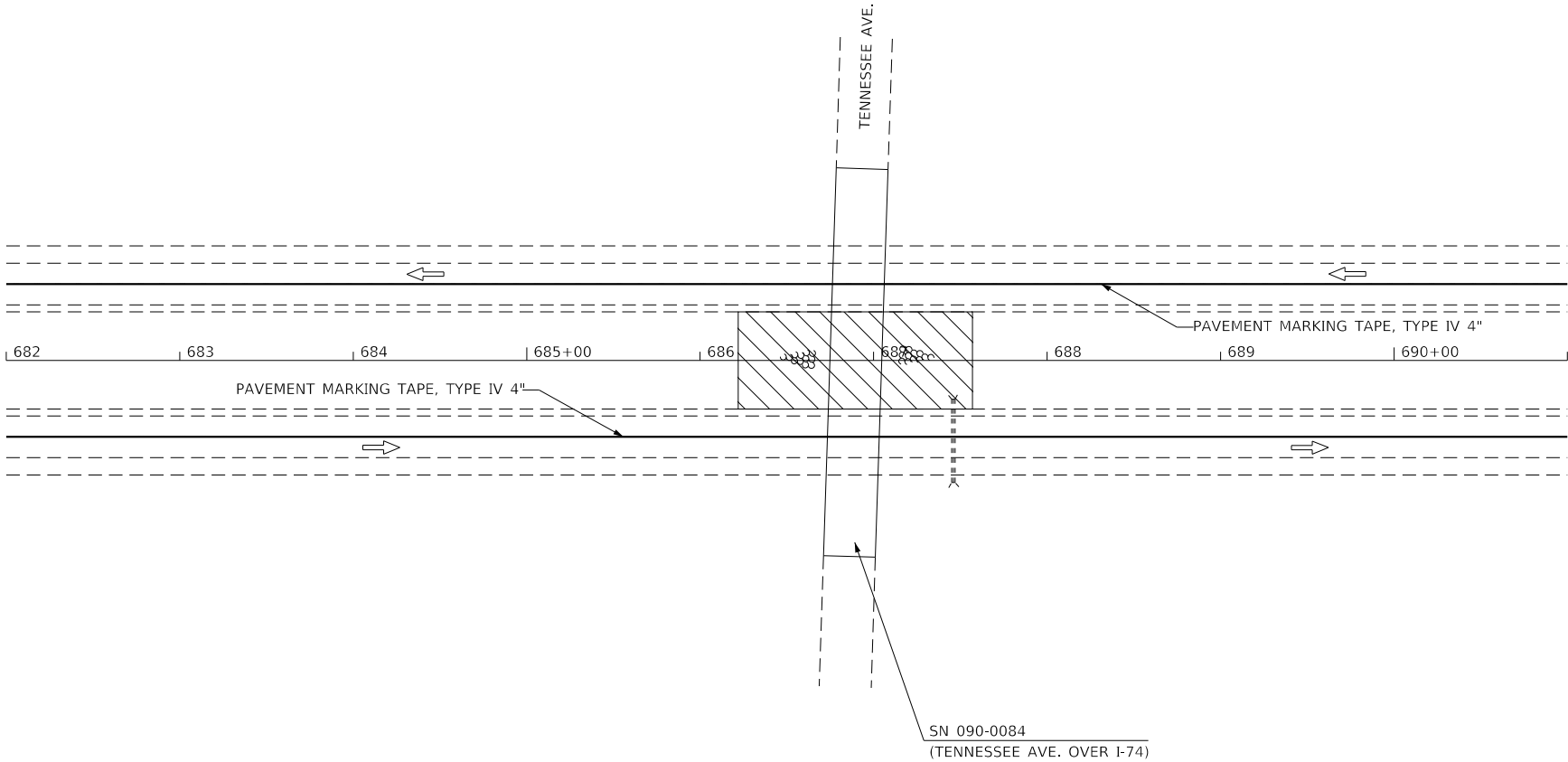
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PLOT DATE	= 10/29/2020	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
STAGE II PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;BJBP,BJR,BRR	TAZEWELL	192	28
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



LEGEND:



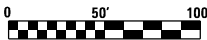
WORK AREA



IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



TEMPORARY CONCRETE BARRIER



NOTES:

1. OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT.
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4. GUARDRAIL OMITTED FOR CLARITY.

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	DRAWN -	REVISED -
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PLOT DATE = 10/29/2020	DATE -	REVISED -

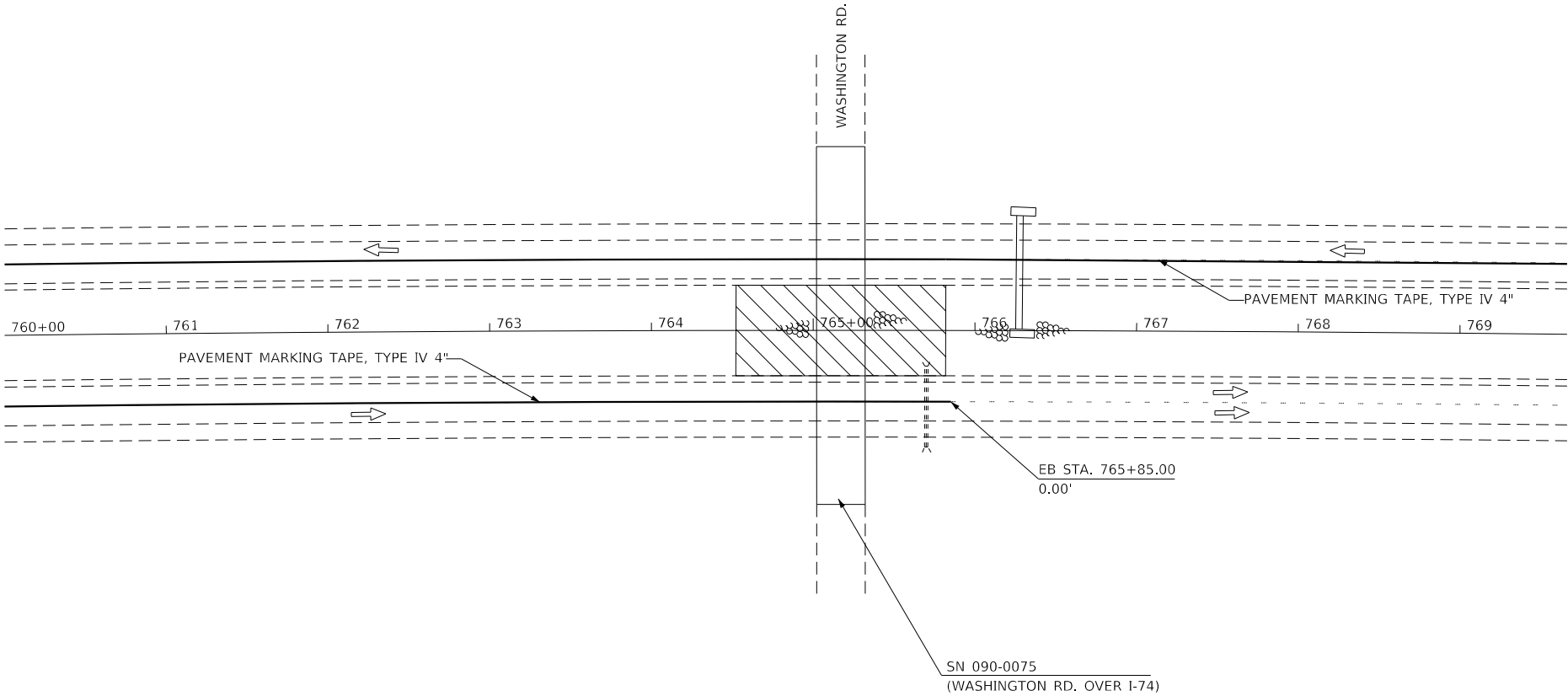
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
STAGE II PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B BP,B R,BRR	TAZEWELL	192	29
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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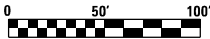
WORK AREA



IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



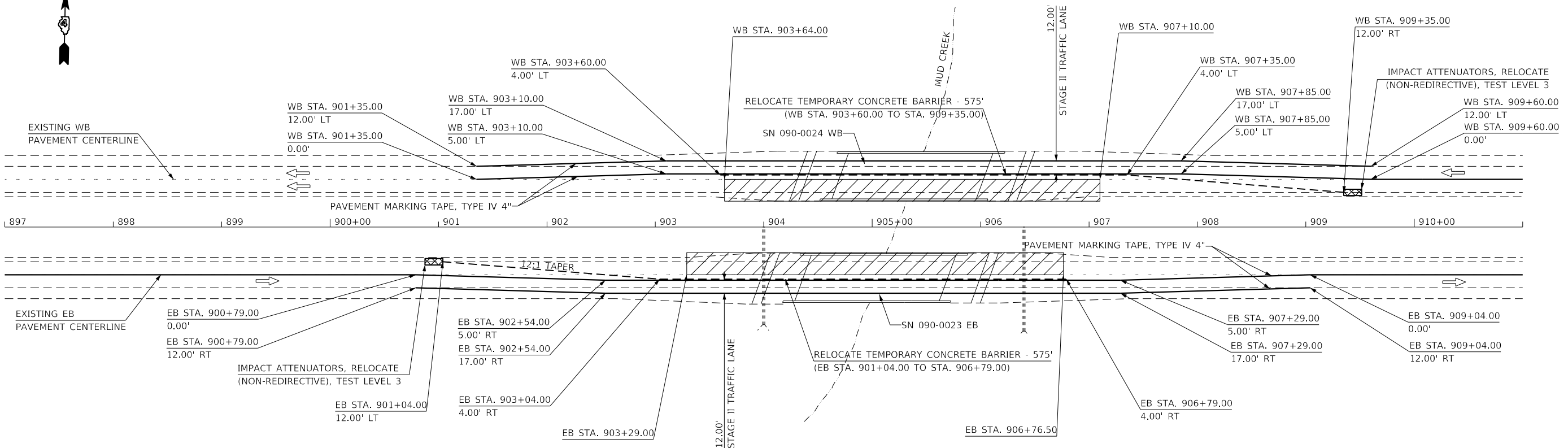
TEMPORARY CONCRETE BARRIER



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4. GUARDRAIL OMITTED FOR CLARITY.

	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAILS STAGE II PLAN				F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						74	90-15(HB(1-4);VB;B BP,B B,BRR		TAZEWELL	192	30
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -						CONTRACT NO. 68F54					
	PLOT DATE = 10/29/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS	FED. AID PROJECT	



LEGEND:

WORK AREA

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

TEMPORARY CONCRETE BARRIER



- NOTES:
1.

OFFSETS ARE MEASURED FROM EXISTING CENTERLINES OF EB OR WB PAVEMENT.
2.

OFFSETS TO THE TEMPORARY CONCRETE BARRIER ARE MEASURED TO THE TRAFFIC FACE OF THE BARRIER.
3.

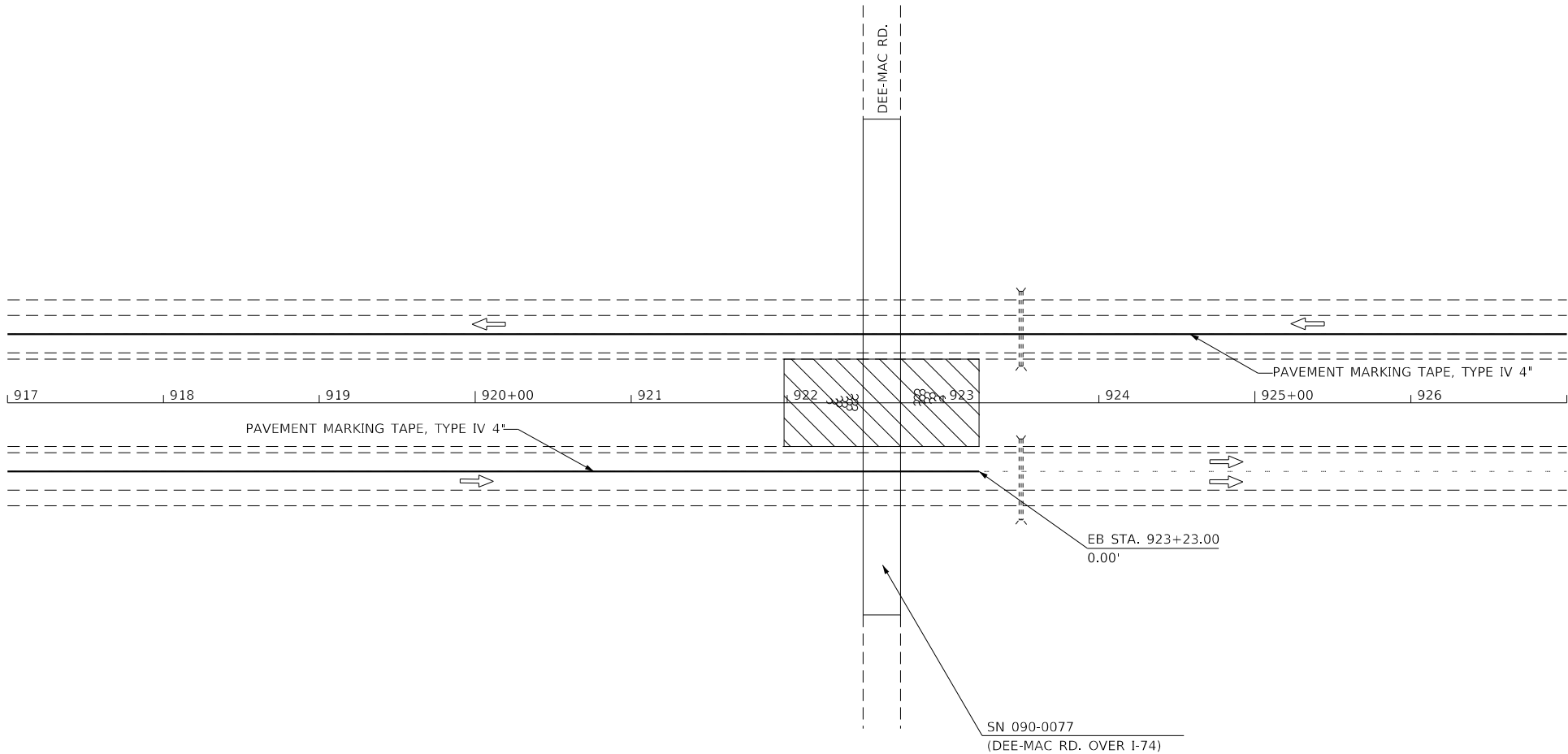
TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND IN ACCORDANCE WITH DETAILS ON THIS SHEET.
4.

GUARDRAIL OMITTED FOR CLARITY.
5.

THE ROADWAY APPROACHES SHOWN IN THE WORK AREAS ON THIS SHEET SHALL BE PATCHED (AS NEEDED), MILLED, AND RESURFACED. SEE PAVEMENT TRANSITION DETAILS.

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			DRAWN -	REVISED -						74	90-15(HB(1-4);VB;B BP,BJR,BRR	TAZEWELL	192	31
	PLOT SCALE = 100.0000 ' / in.		CHECKED -	REVISED -						CONTRACT NO. 68F54				
	PLOT DATE = 10/29/2020		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



LEGEND:



WORK AREA



IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



TEMPORARY CONCRETE BARRIER



NOTES:

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4. GUARDRAIL OMITTED FOR CLARITY.

MODEL: Default
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PLOT DATE = 10/29/2020	DATE -	REVISED -

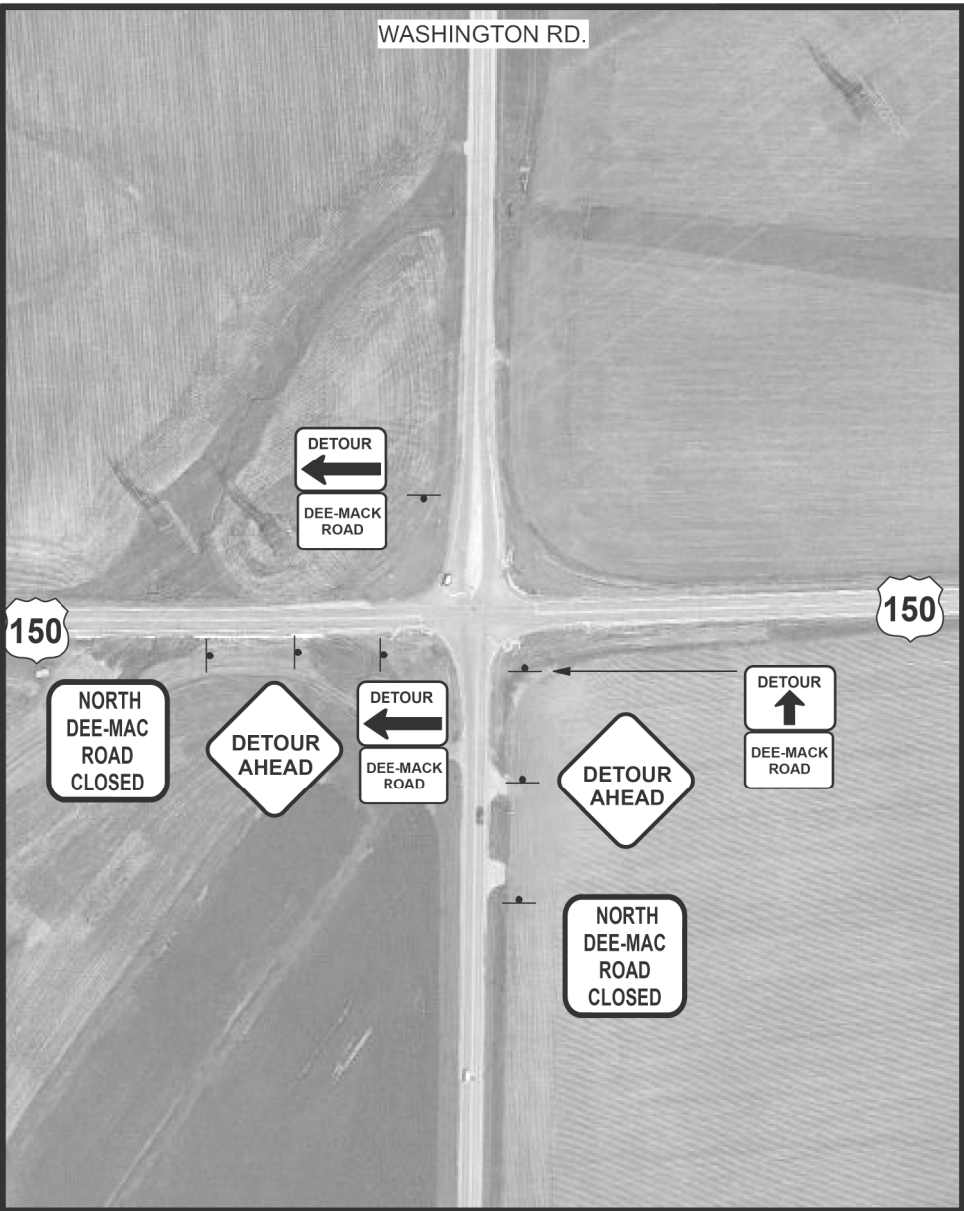
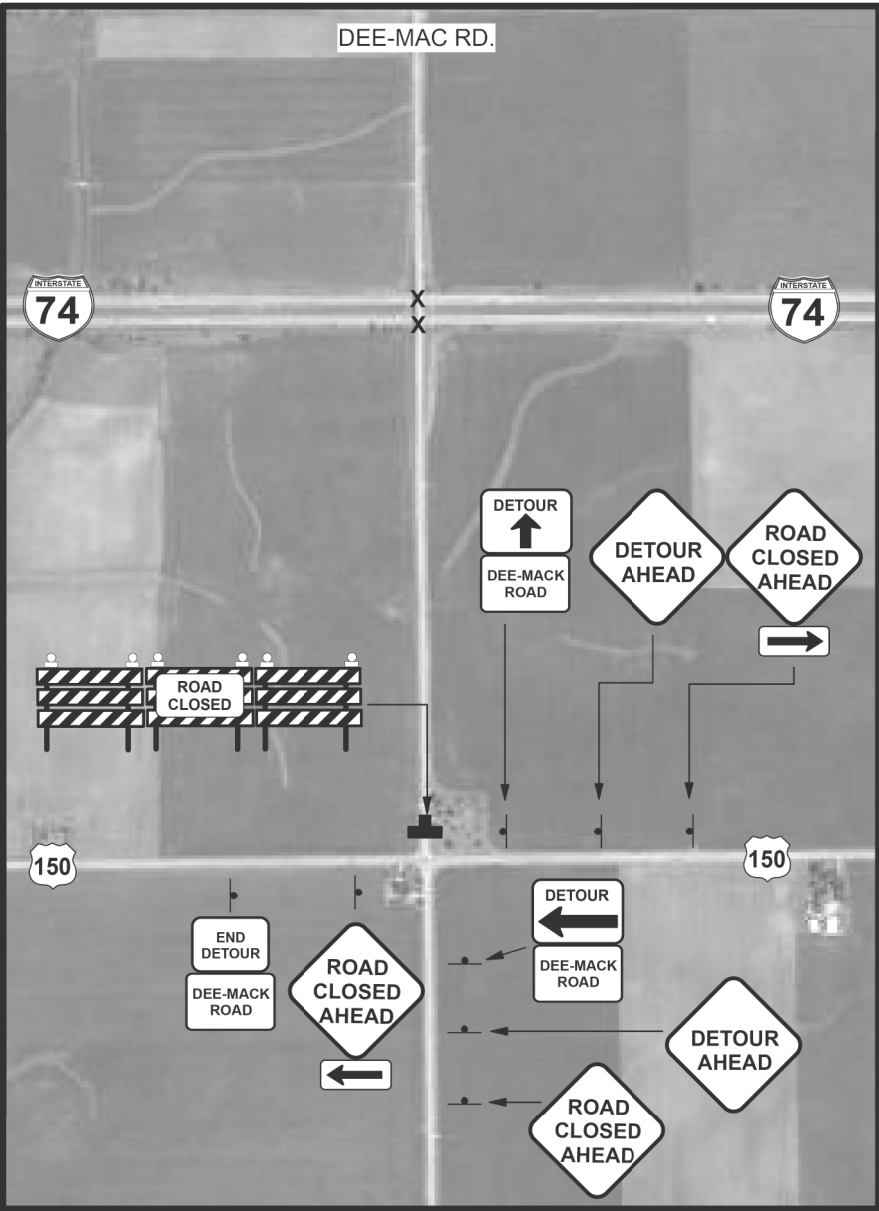
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
STAGE II PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B BP,B J,R,BRR	TAZEWELL	192	32
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

MODEL Default
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DEE-MAC ROAD CLOSURE AND DETOUR



USER NAME = horstj	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/29/2020	DATE -	REVISED -

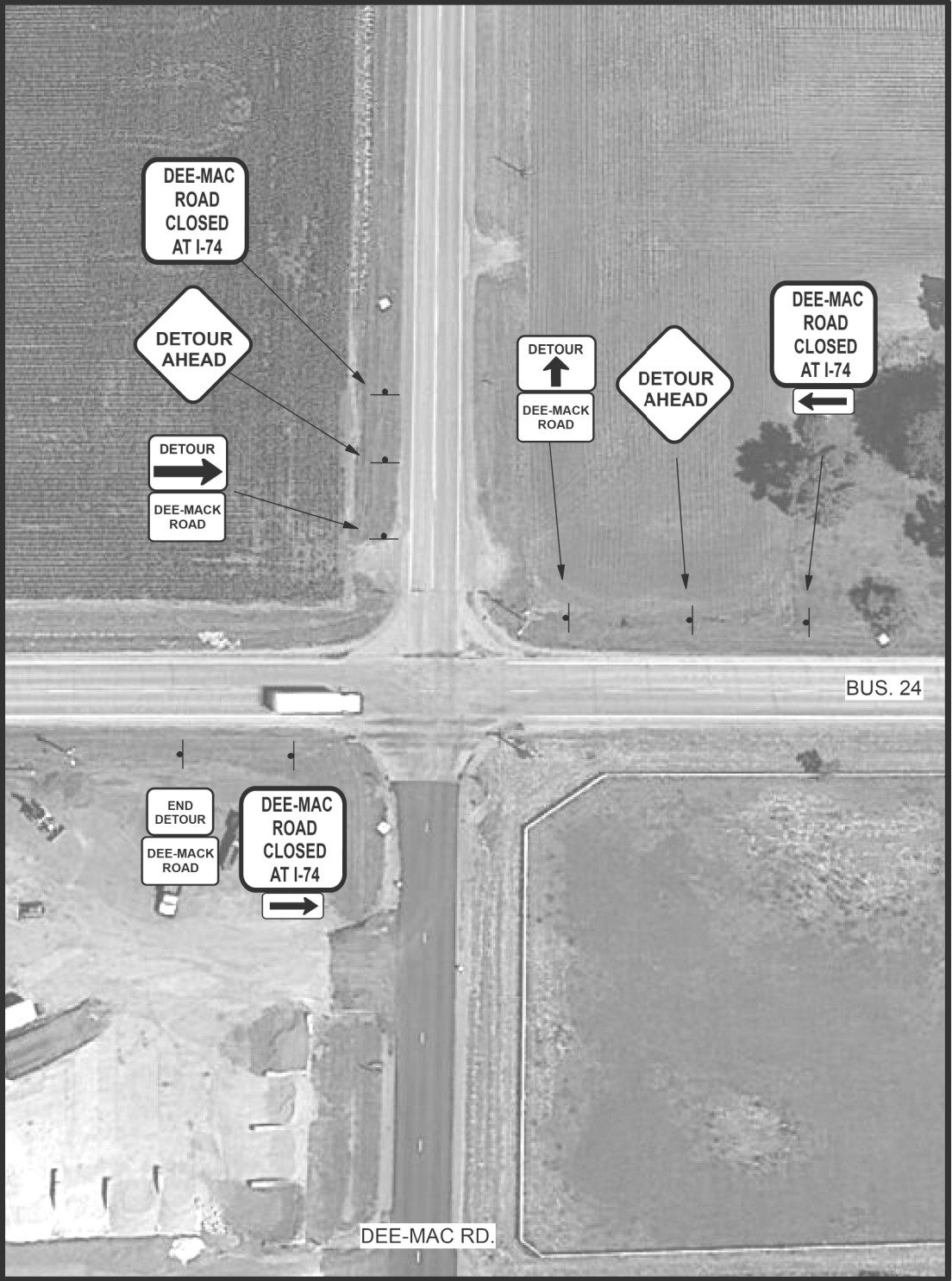
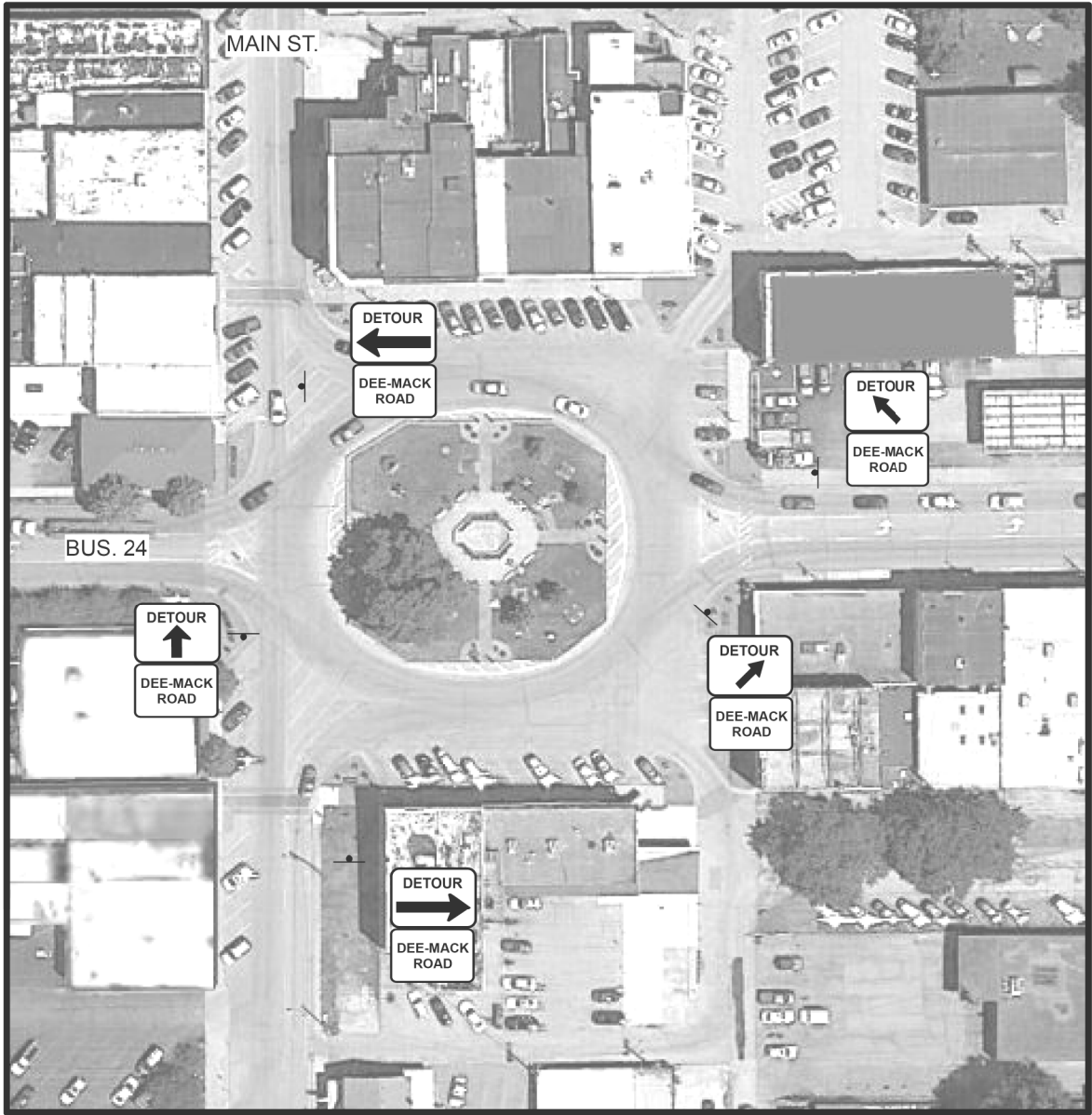
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROAD CLOSURE AND DETOUR DETAILS DEE-MACK RD.

SCALE: SHEET 33 OF 192 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4):VB,B)BP,BJR,BRR	TAZEWELL	192	33
CONTRACT NO. 68F54				
ILLINOIS				

DEE-MAC ROAD
CLOSURE AND DETOUR



MODEL Default
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	DRAWN -	REVISED -
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PLOT DATE = 10/29/2020	DATE -	REVISED -

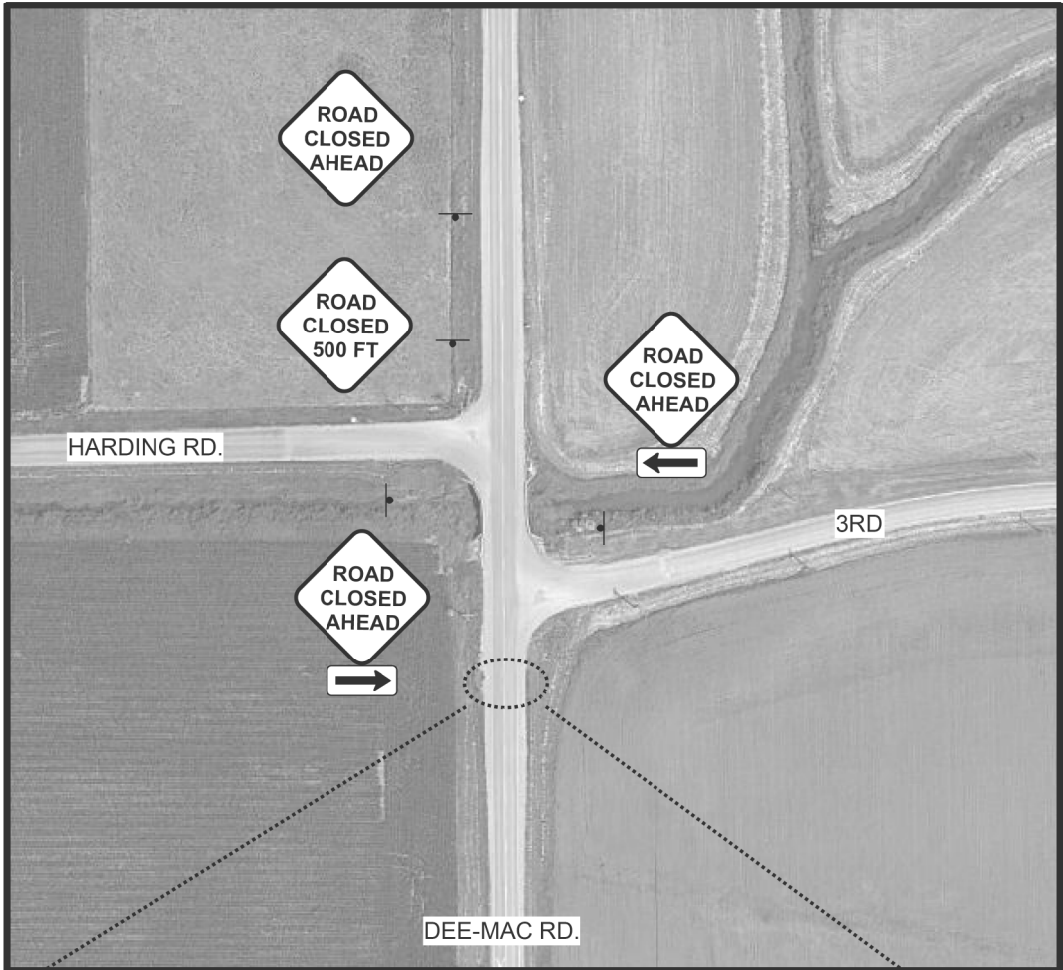
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROAD CLOSURE AND DETOUR DETAILS
DEE-MACK RD.

SCALE: SHEET 34 OF 192 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	34
CONTRACT NO. 68F54				
ILLINOIS				

DEE-MAC ROAD CLOSURE AND DETOUR



CLOSURE AND DETOUR NOTES:

TWO (2) PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ON NORTHBOUND/SOUTHBOUND DEE-MAC RD.

SEVEN (7) CALENDAR DAYS PRIOR TO TO THE CLOSURE TO ADVANCE WARN THE PUBLIC. THE LOCATIONS SHALL BE IN CLOSE PROXIMITY TO THE STRUCTURE.

ALL SIGNS SHOWN ARE BLACK ON ORANGE. DETOUR SIGNS SHALL BE SIZED PER THE MUTCD FOR CONVENTIONAL ROADS.

STREET SIGNS SHALL BE SIZED TO ACCOMODATE 4" LETTERING.



= TYPICAL 48" X 48" BLACK ON ORANGE.

EACH SIDE OF THE STRUCTURE ON DEE-MACROAD SHALL BE AS SHOWN PER STD. 701901-ROAD CLOSED TO ALL TRAFFIC.

• = POST MOUNTED SIGN- SIGNS ON WASHINGTON SQUARE MAY BE TEMPORARY STAND MOUNTED (NO A-FRAME STYLE) AS NECESSARY.



USER NAME = horstkj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

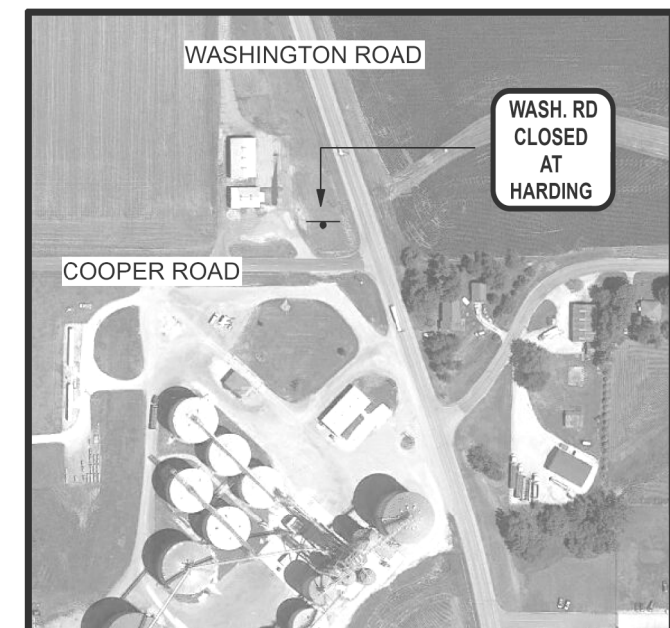
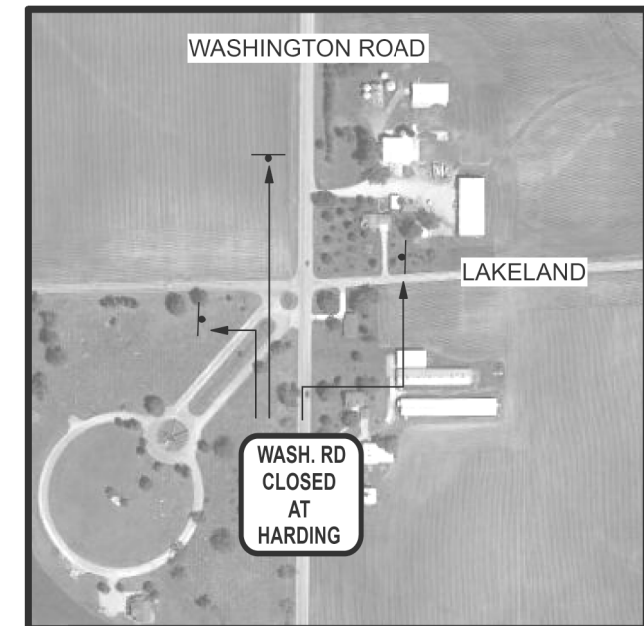
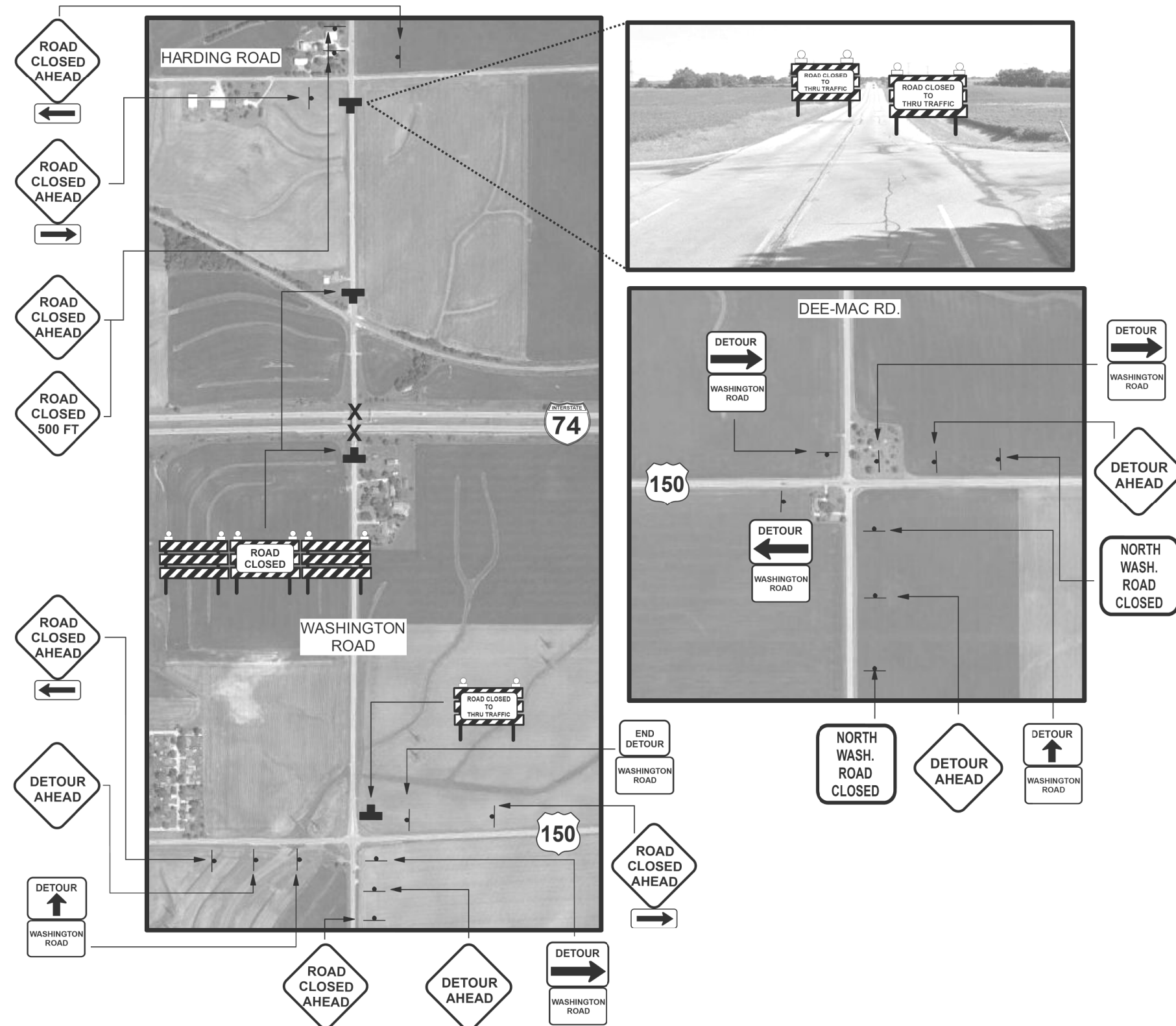
ROAD CLOSURE AND DETOUR DETAILS

DEE-MACK RD.

SCALE:	SHEET 35	OF 192 SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 68F54		
ILLINOIS				

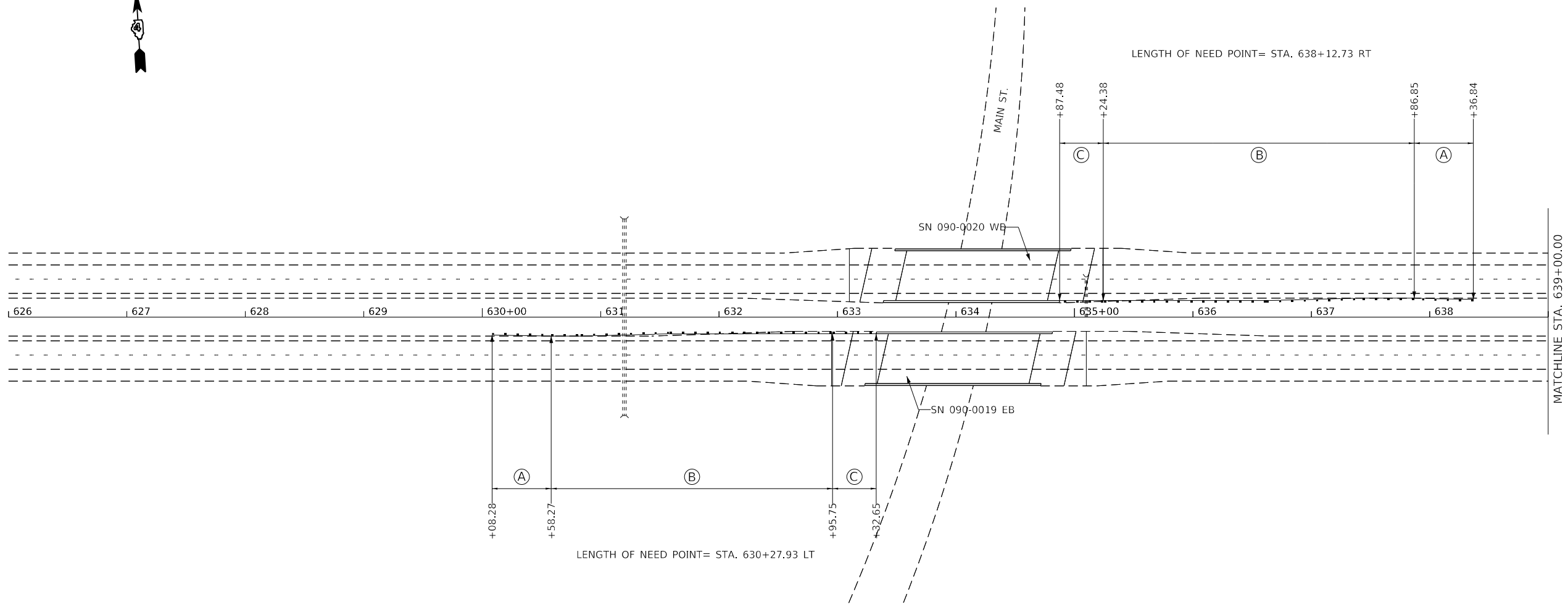
WASHINGTON ROAD CLOSURE AND DETOUR





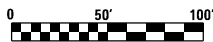
MAIN ST. SIGNS SHALL BE BLACK ON ORANGE WITH A MINIMUM 4" LETTERING.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	38
		CONTRACT NO. 68F54		
ILLINOIS				



LEGEND:

- (A) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (B) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (C) TRAFFIC BARRIER TERMINAL, TYPE 6



NOTES:

- THE FACE OF THE GUARDRAIL SHALL MATCH THE OUTSIDE EDGE OF HMA SHOULDER AS DETAILED IN THE PRE-STAGE PLANS.

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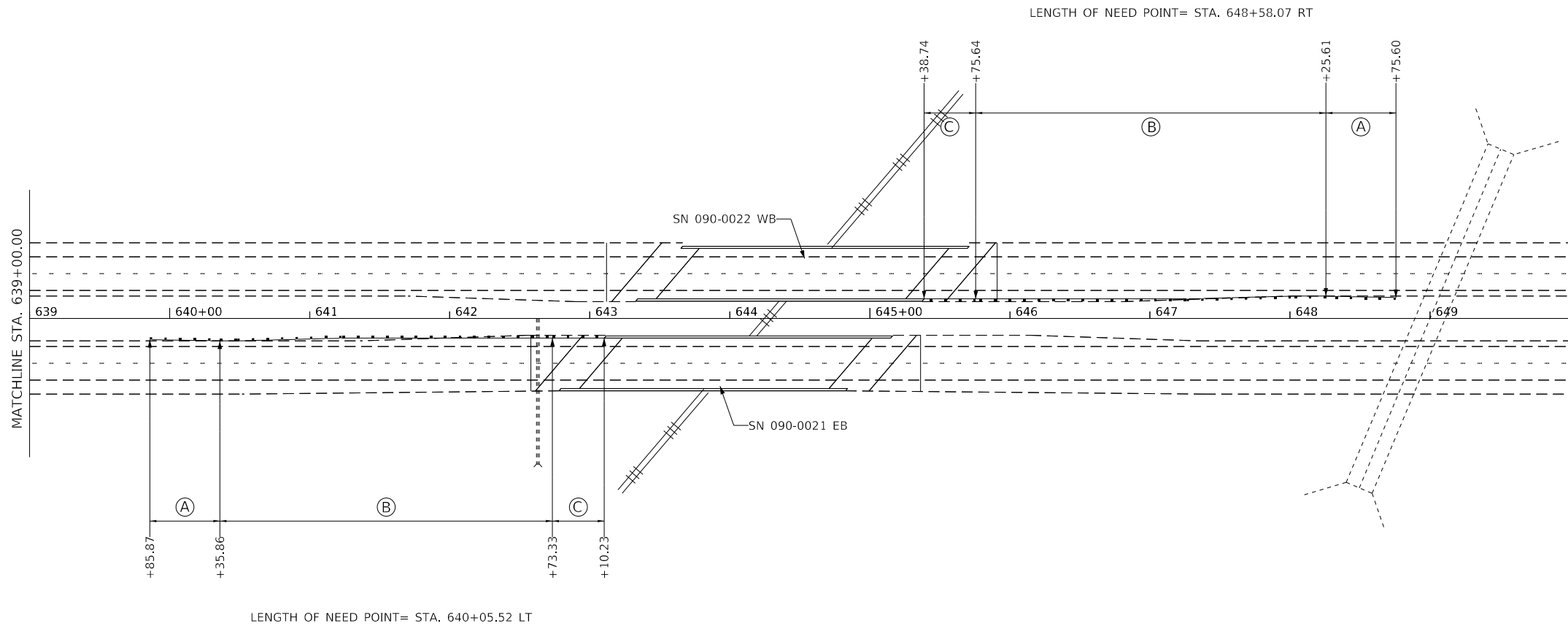
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	DRAWN -	REVISED -
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PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B BP,B J,BRR	TAZEWELL	192	39
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



LEGEND:

- (A) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (B) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (C) TRAFFIC BARRIER TERMINAL, TYPE 6



NOTES:

1. THE FACE OF THE GUARDRAIL SHALL MATCH THE OUTSIDE EDGE OF HMA SHOULDER AS DETAILED IN THE PRE-STAGE PLANS.

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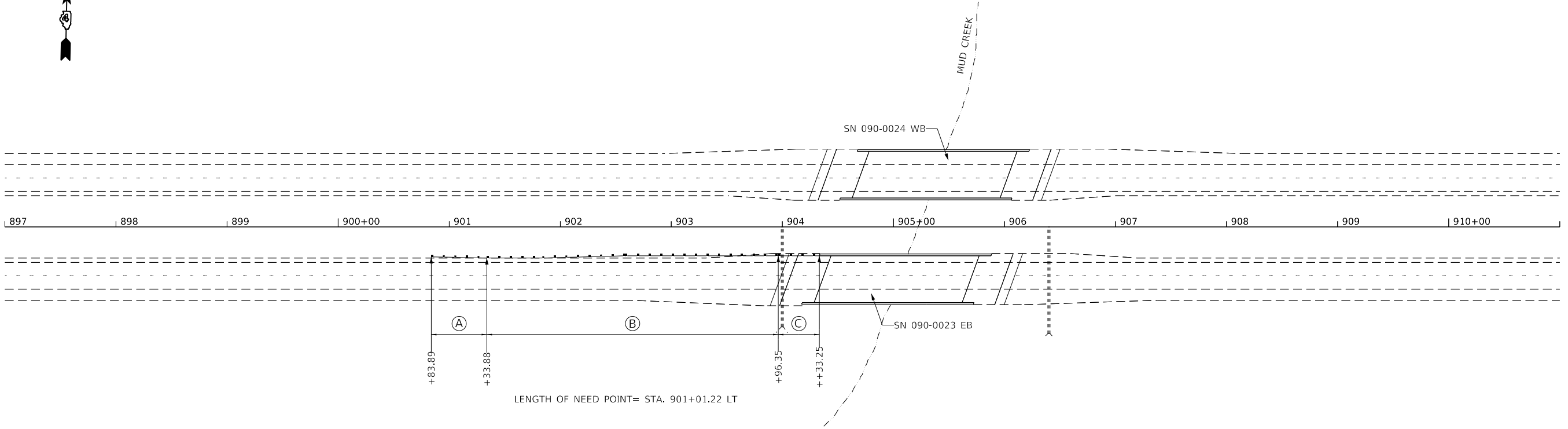
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PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL DETAILS

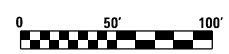
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4)):VB:B BP,B R,BRR	TAZEWELL	192	40
CONTRACT NO. 68F54				
		ILLINOIS	FED. AID PROJECT	



LEGEND:

- (A) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (B) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (C) TRAFFIC BARRIER TERMINAL, TYPE 6



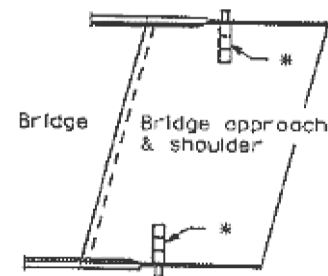
NOTES:

- THE FACE OF THE GUARDRAIL SHALL MATCH THE OUTSIDE EDGE OF HMA SHOULDER AS DETAILED IN THE PRE-STAGE PLANS.

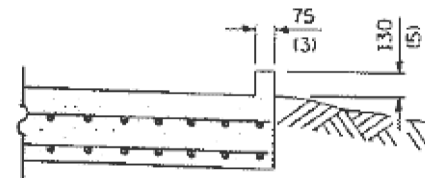
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	USER NAME = diazaa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	41
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68F54				
	PLOT DATE = 10/29/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

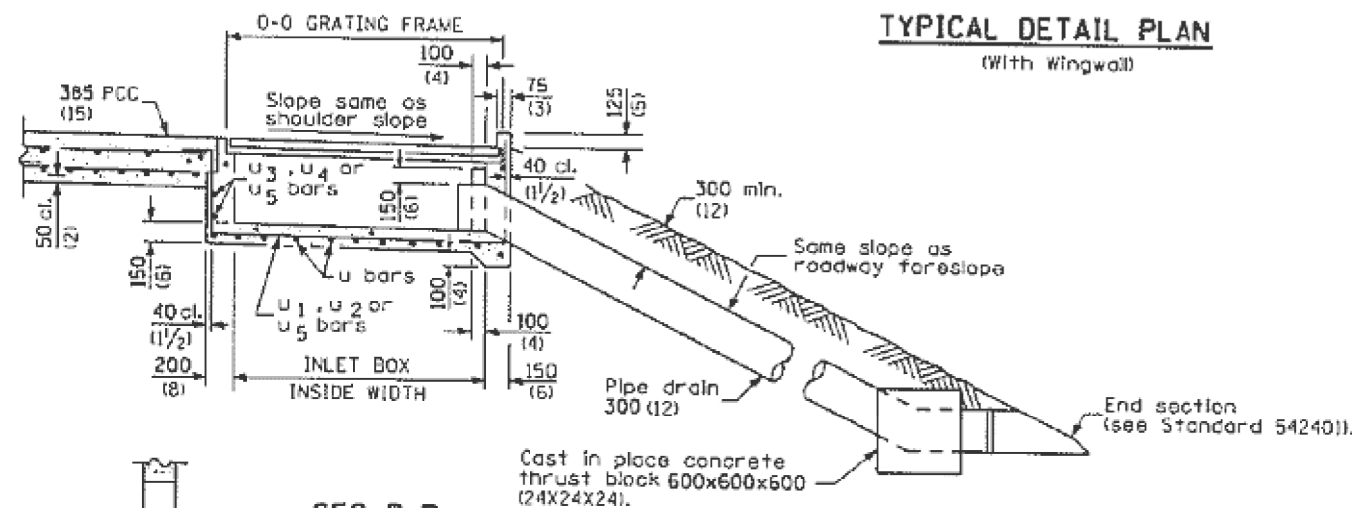
• Type B, C, or D Inlet box as required.



GENERAL PLAN

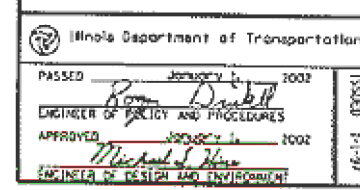


SECTION C-C

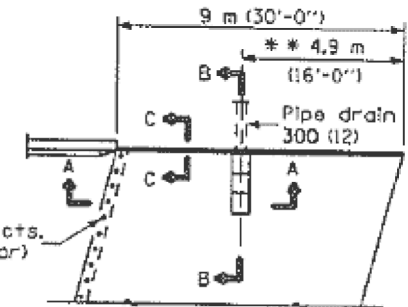


SEC. B-B

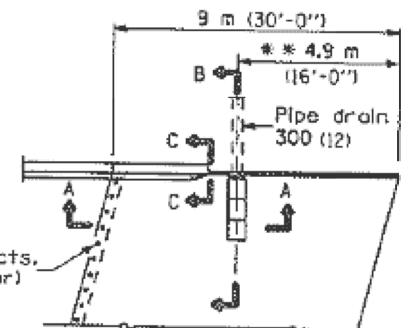
BOX OUTLET
WHEN PRECAST



INLET TYPE	SHOULDER WIDTH	O-O GRATING FRAME	INLET BOX INSIDE WIDTH	INLET BOX INSIDE LENGTH
Type B	Less than 1.5 m (5')	0.690 m (2'-3")	0.560 m (1'-10")	460 (18)
Type C	1.5 - 1.8 m (5' - 6')	1.325 m (4'-4")	1.195 m (3'-11")	460 (18)
Type D	Greater than 1.8 m (6')	1.960 m (6'-5")	1.830 m (6'-0")	460 (18)

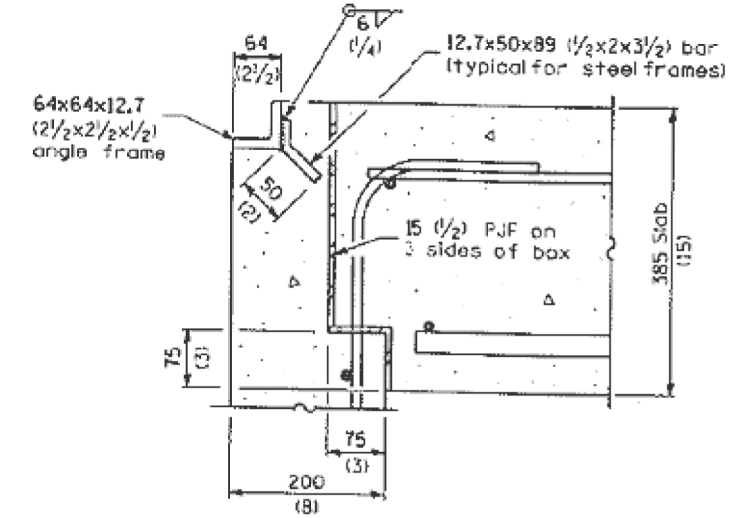


TYPICAL DETAIL PLAN
(W/O Wingwall)

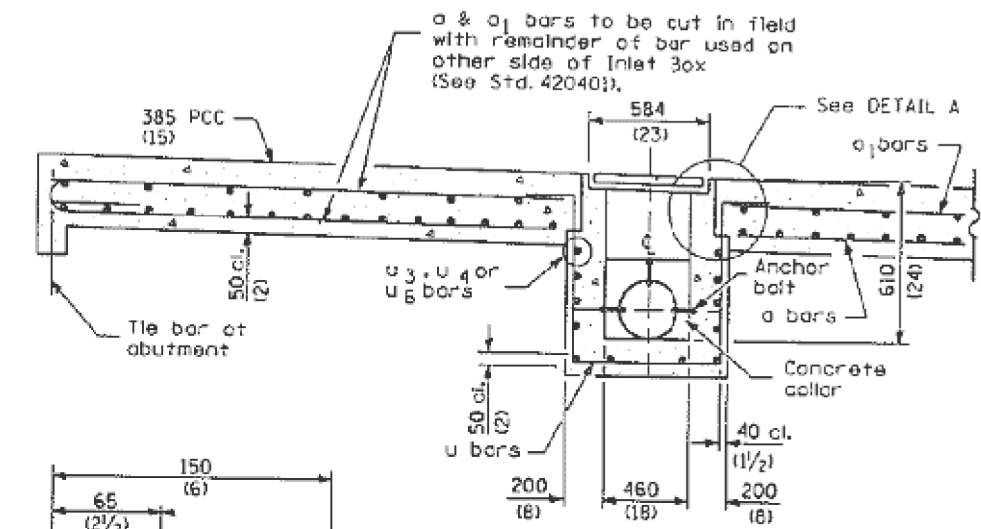


TYPICAL DETAIL PLAN
(With Wingwall)

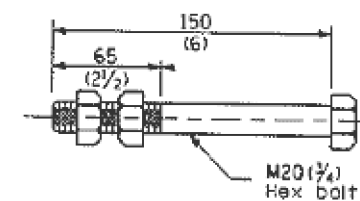
** Vary this dimension as needed to position the Inlet Box and Pipe Drain between the proposed approach guardrail posts.



DETAIL A



SECTION A-A



ANCHOR BOLT

(Used to tie pipe to concrete collar)

GENERAL NOTES

All exposed edges of the Inlet, except the upper perimeter, shall be beveled 20 mm (3/4 inch).

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

DATE	REVISIONS	BRIDGE APPROACH PAVEMENT DRAIN DETAIL (Sheet 1 of 2) STANDARD 609006-02
1-1-02	Deleted "Metal" from Section B-B.	
1-1-98	Rev. ref. to "542101" to read "542401".	

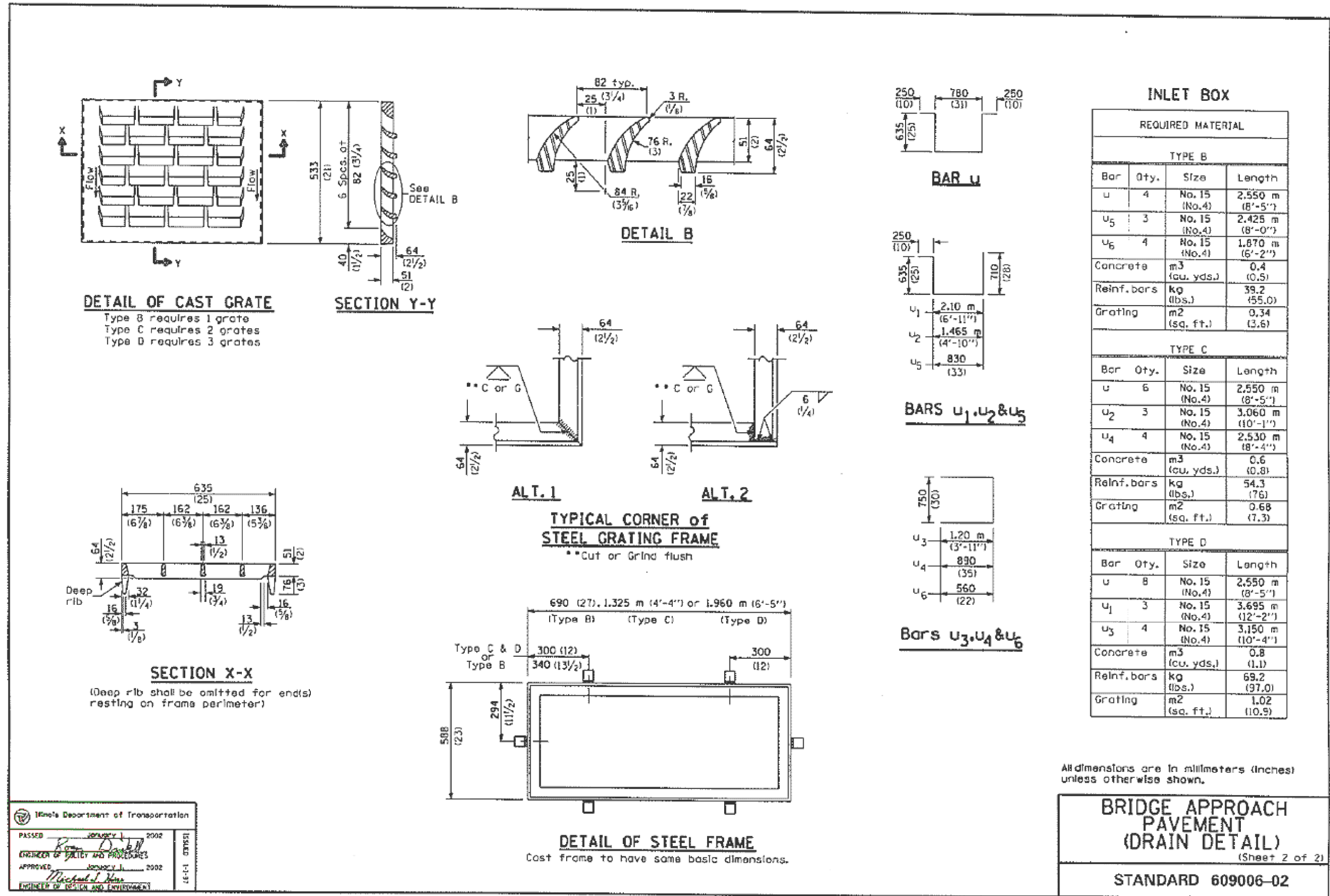
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE APPROACH PAVEMENT DRAIN DETAIL
(FOR INFORMATION ONLY)

SCALE: SHEET 43 OF 192 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	43
CONTRACT NO. 68F54				



FOR INFORMATION ONLY

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3R: Morton Ave. to Woodford Rd\Drawings\68F54\68F54_Cover_Sheets_N5.dgn

Illinois Department of Transportation

PASSED: 10/29/2020
ENGINEER OF PUBLIC AND PROGRESS
APPROVED: 10/29/2020
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED: 1-31
REVISED: 1-31

USER NAME = horstj	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE APPROACH PAVEMENT DRAIN DETAIL
(FOR INFORMATION ONLY)

SCALE: SHEET 44 OF 192 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	44
				CONTRACT NO. 68F54

GENERAL NOTES

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

Fasteners shall be high strength bolts. Bolts 7/8"Ø, open holes 1 1/16"Ø, unless otherwise noted.

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 work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring new concrete, 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 existing concrete.

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

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

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings, and other structural steel shall be cleaned per Near White Blast Cleaning (SSPC-SP10). The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning (SSPC-SP15).

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) and per Commercial Grade Power Tool Cleaning (SSPC-SP15) shall be painted according to the requirements of paint system 1 - 02/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray (Munsell No. 5B 7/1). The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue (Munsell No. 10B 3/6).

A minimum of 4 air monitors will be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues".

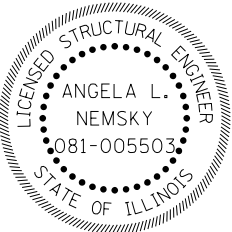
SSPC QP1 and SSPC QP2 Certification is required for this Contract.

Care shall be taken not to damage rubber bearing or joint components during blasting and cleaning operations. Any damage to these components shall be repaired at the contractor's expense.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue, Munsell No. 10B 3/6. Cost included with Structural Steel Repair.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



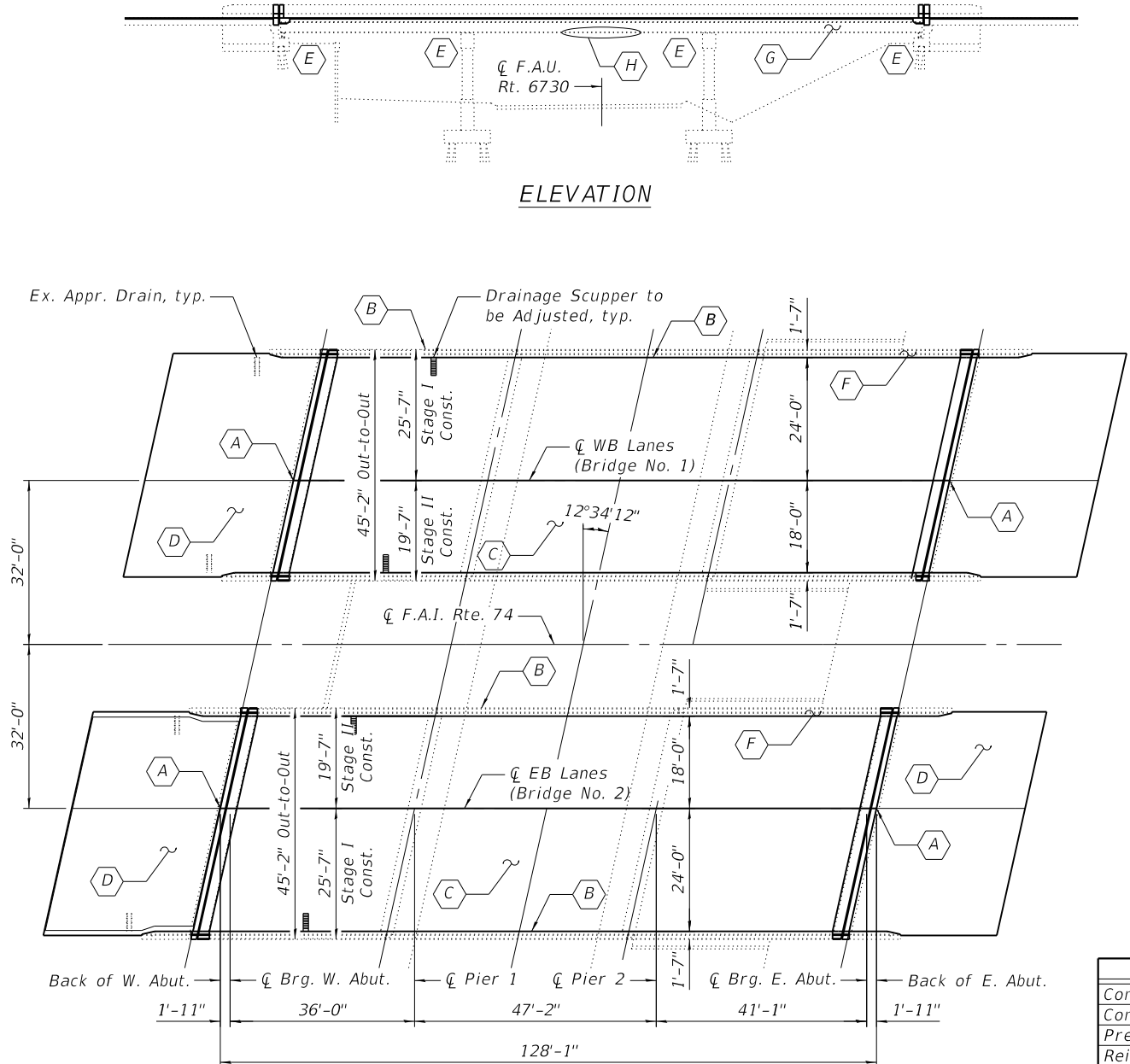
Angela L. Nemsky
12/01/2020
EXPIRES 11/30/2022

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Bridge Cross Sections
- 3 Bridge Deck Repair Details
- 4 Temporary Conc. Barrier
- 5-7 Joint Repair Details
- 8 Preformed Joint Strip Seal
- 9-10 Steel Repair & Straightening
- 11-17 Substructure Repairs
- 18 Bar Splicer Assembly Details
- 19-37 Existing Plans

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	25.0		25.0
Concrete Superstructure	Cu. Yd.	27.7		27.7
Preformed Joint Strip Seal	Foot	181		181
Reinforcement Bars, Epoxy Coated	Pound	3000		3000
Bar Splicers	Each	48		48
Protective Coat	Sq. Yd.	1748		1748
Bridge Deck Grooving	Sq. Yd.	1656		1656
Structural Steel Repair	Pound	710		710
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	77.0	175.5	252.5
Bridge Deck Scarification, 3/4"	Sq. Yd.	1957		1957
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	1957		1957
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L. Sum	1		1
Containment and Disposal of Lead Paint Cleaning Residues No. 2	L. Sum	1		1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1		1
Cleaning and Painting Steel Bridge No. 2	L. Sum	1		1
Protective Coat (Special)	Sq. Yd.	415		415
Surface Filler (Special)	Gallon	6		6
Drainage Scuppers to be Adjusted	Each	4		4
Beam Straightening	L. Sum	1		1



PLAN

- (A) - Remove and replace expansion joints at abutments
- (B) - Bridge deck or parapet repair (Depth ≤ 5")
- (C) - 3/4" Bridge Deck Scarification, 2 1/4" Microsilica Concrete Overlay to bridge deck, approach slab, and transition pavement & Adjust Drainage Scuppers
- (D) - Repair bridge approach and transition approach slabs (See Roadway Plans for details)
- (E) - Concrete repair of abutments or piers
- (F) - Apply Protective Coat (Special) to the inside face and top of parapets
- (G) - Clean and paint all structural steel and bearings
- (H) - Beam straightening and strengthening (EB Beams 1 and 3, Span 2)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
SN 090-0019 & SN090-0020

SHEET 1 OF 37 SHEETS

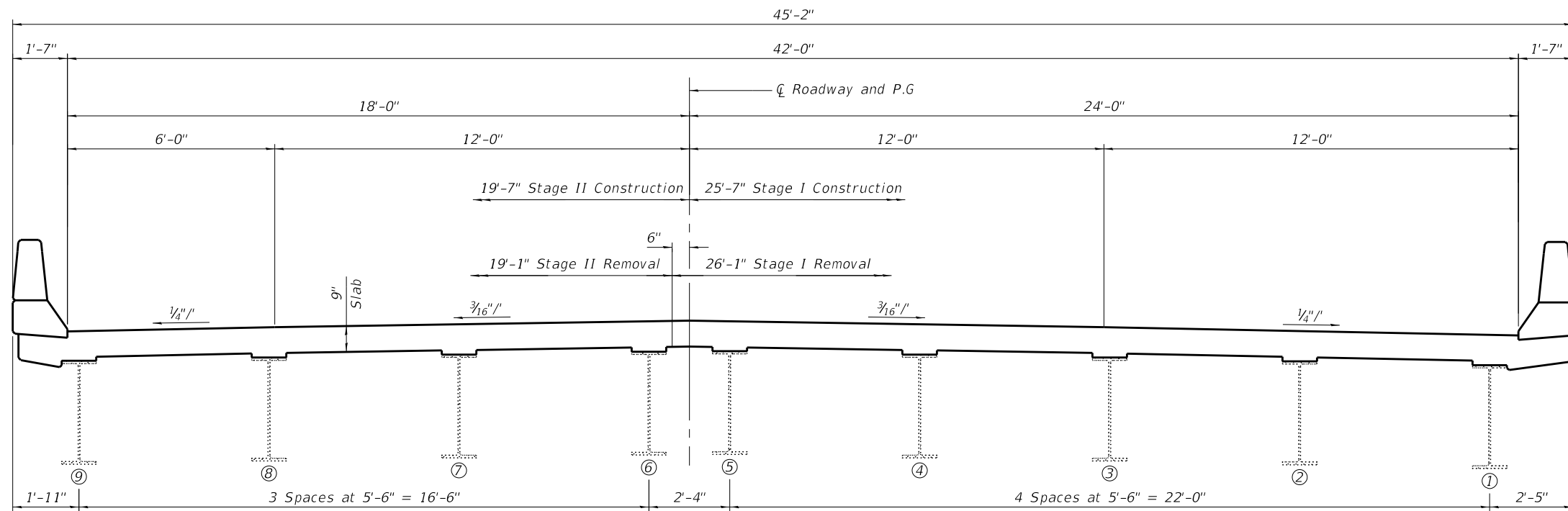
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74	90-15[H8(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	45
			CONTRACT NO. 68F54	
		ILLINOIS	FED. AID PROJECT	

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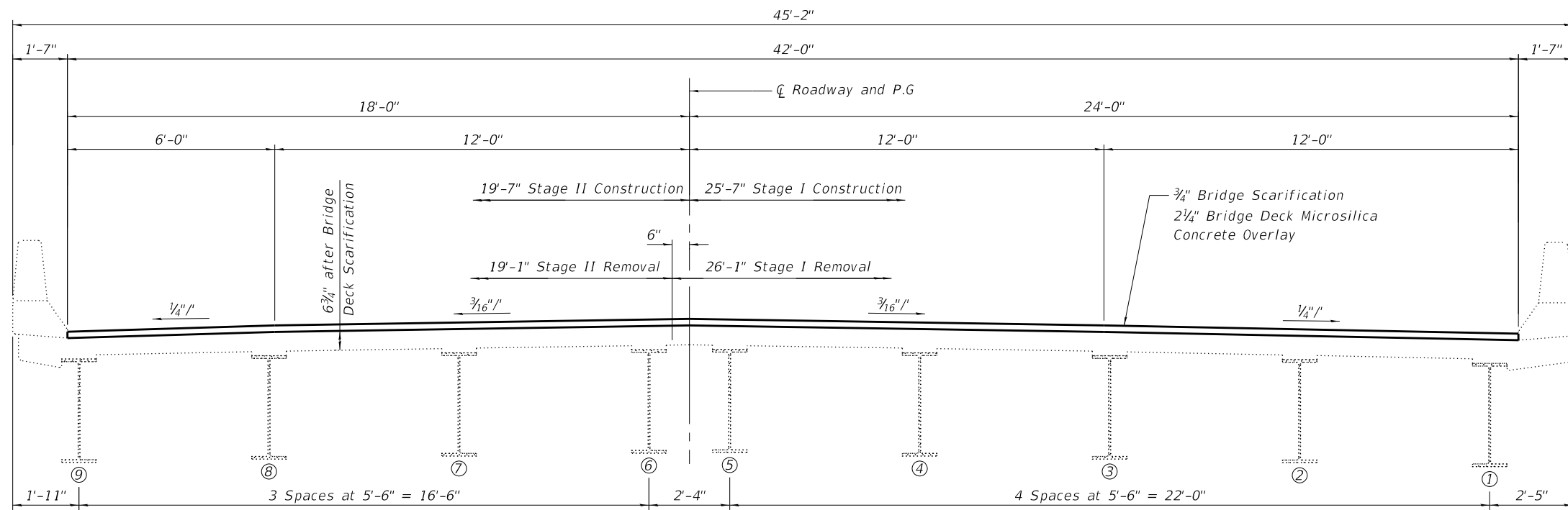


TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM
LICENSE NO: 184-001220

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	CHECKED - ALN	REVISED -
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CROSS SECTION AT ABUTMENT
 (Looking East - E. Bound Lanes S.N. 090-0019)
 (Looking West - W. Bound Lanes S.N. 090-0020)



CROSS SECTION AT MIDSPAN
 (Looking East - E. Bound Lanes S.N. 090-0019)
 (Looking West - W. Bound Lanes S.N. 090-0020)

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TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

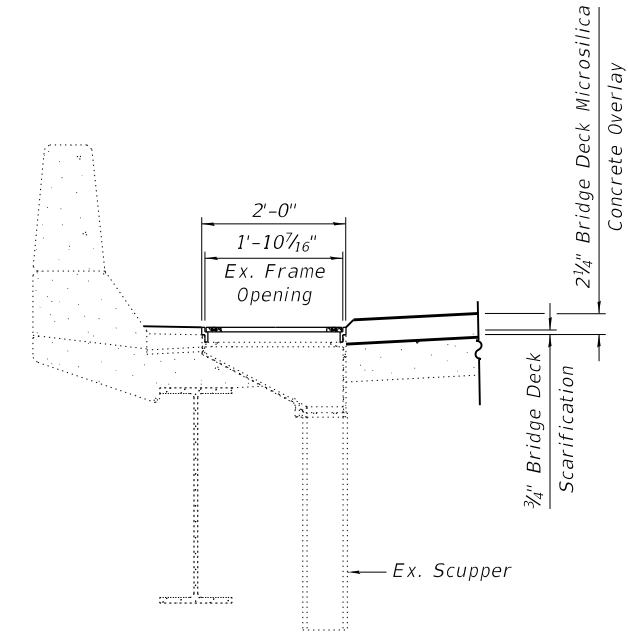
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

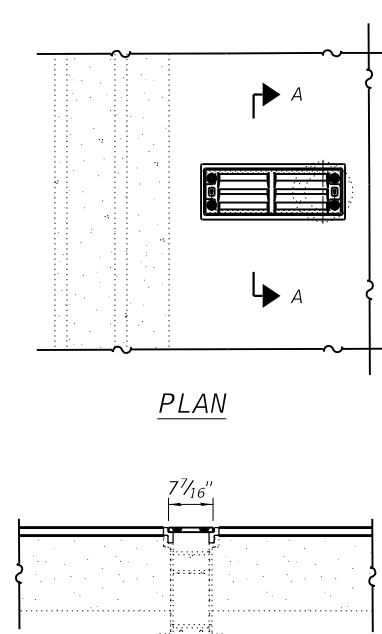
BRIDGE CROSS SECTIONS
SN. 090-0019 AND SN. 090-0020

SHEET 2 OF 37 SHEETS

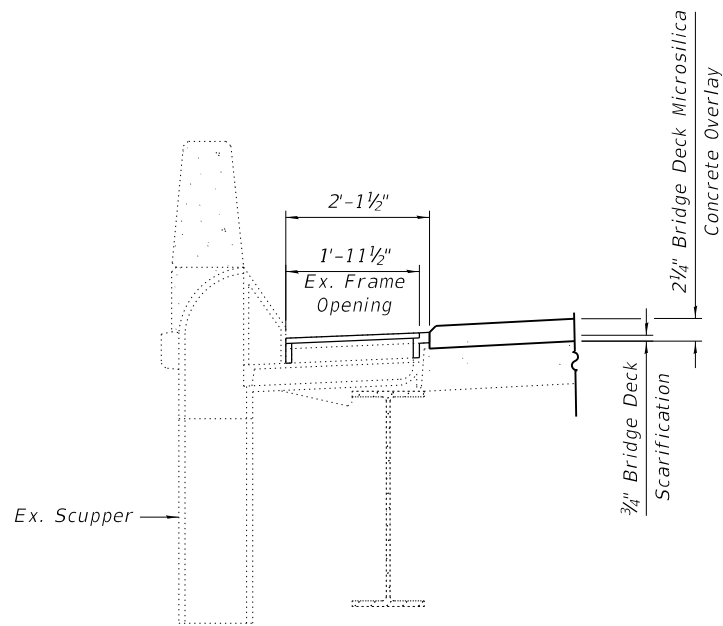
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CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



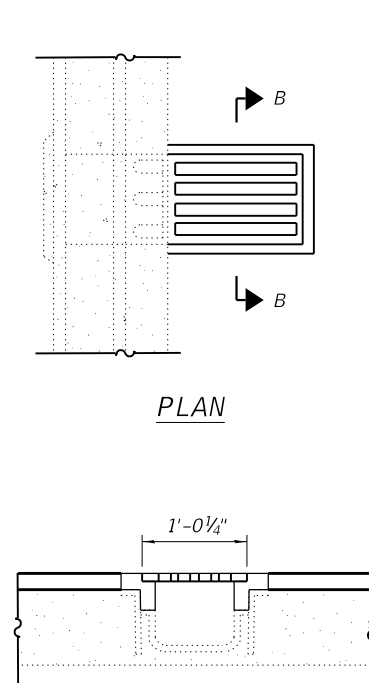
TYPICAL DS-12 SCUPPER DETAIL



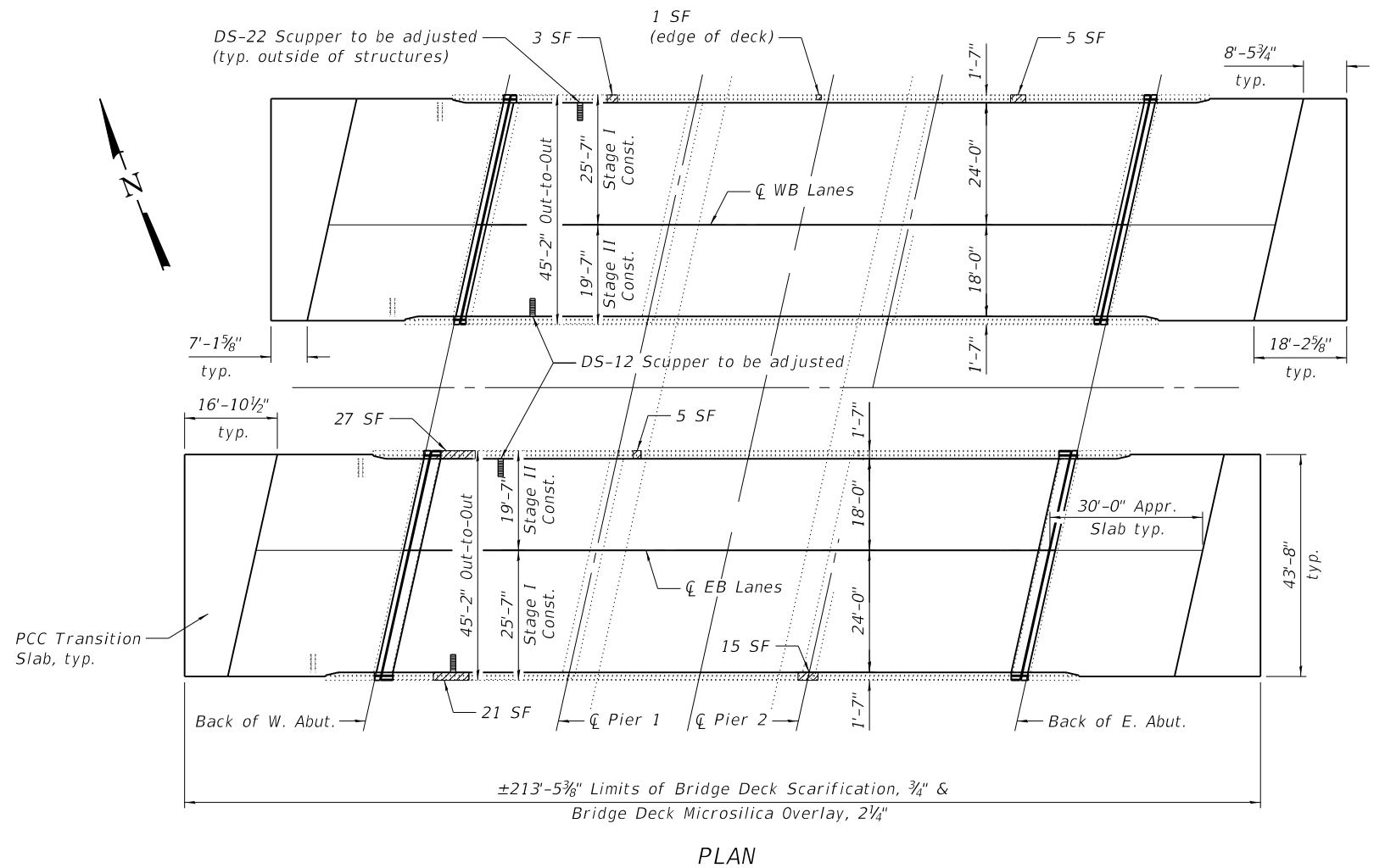
SECTION A-A



TYPICAL DS-22 SCUPPER DETAIL



SECTION B-B



PCC Transition Slab, typ.

▨ - Structural Repair of Concrete (Depth ≤ or Equal to 5")

- Notes:
1. The Contractor shall field verify existing dimensions and details of the existing scupper to make necessary adjustments prior to construction of new Adjusting Ring or ordering of material for adjusting drainage scuppers
 2. All cast iron parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
 3. Bolts, anchor studs, washers, and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to the requirements of AASHTO M 232.
 4. Cast iron parts shall be unfinished.
 5. Adjusting Ring shall be from Neenah or approved equal. Structural Steel weldments or equivalent sections of the same configuration may be submitted for cast iron. Fillet or full penetration welds may be used for weldments. Details shall be submitted to the Engineer for approval.
 6. Provide a 1/8" fillet weld around perimeter of new Adjusting Ring to secure to existing scupper. Electrode shall be compatible with cast iron.
 7. Cost of all labor and materials necessary to clean all existing scuppers, to install adjusting scupper rings, and to remove and re-install grates is included in the cost for Drainage Scuppers to be Adjusted.

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Deck Grooving	Sq. Yd.	1656
Structural Repair of Concrete (Depth ≤ or Equal to 5")	Sq. Ft.	77
* Protective Coat	Sq. Yd.	1748
** Protective Coat (Special)	Sq. Yd.	415
Surface Filler (Special)	Gallon	6
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	1957
Bridge Deck Scarification, 3/4"	Sq. Yd.	1957
Drainage Scuppers to be Adjusted	Each	4

- * Apply to new concrete and overlay only.
(Bridge & Appr. Slab)
** Apply to existing parapets only.
(Bridge & Appr. Slab)

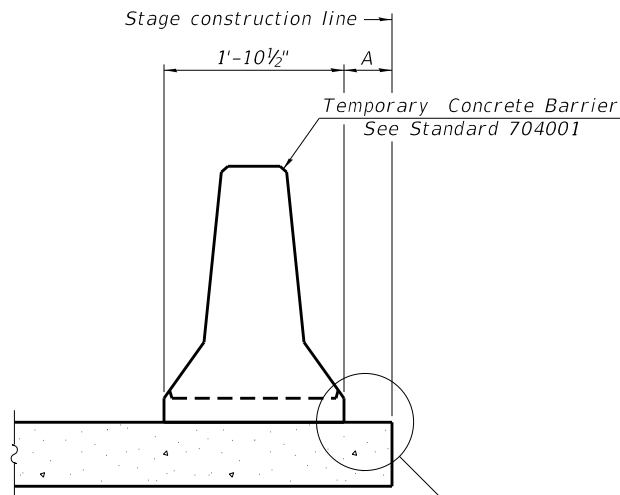
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REPAIR PLAN
SN 090-0019 & SN090-0020

SHEET 3 OF 37 SHEETS

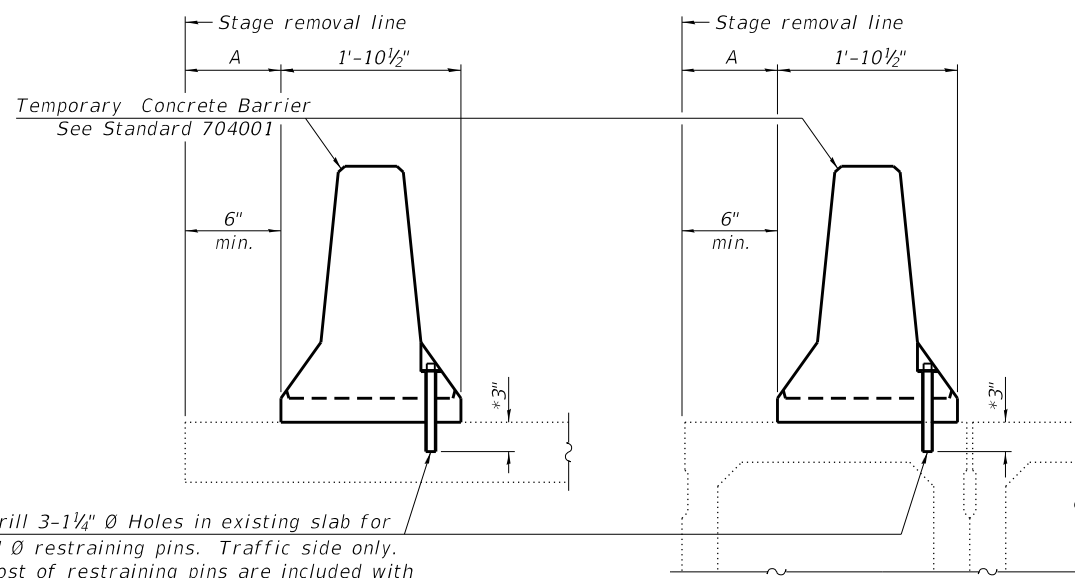
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CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

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	CHECKED - ALN	REVISED -
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PLOT DATE = 12/1/2020	CHECKED - ALN	REVISED -



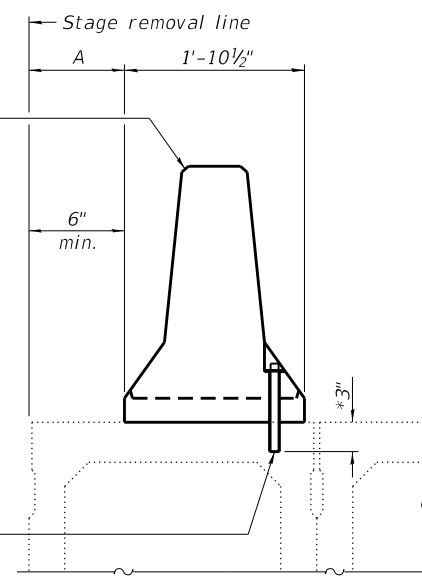
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



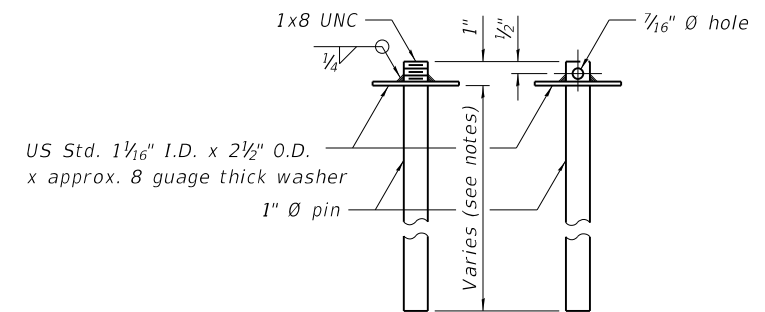
Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

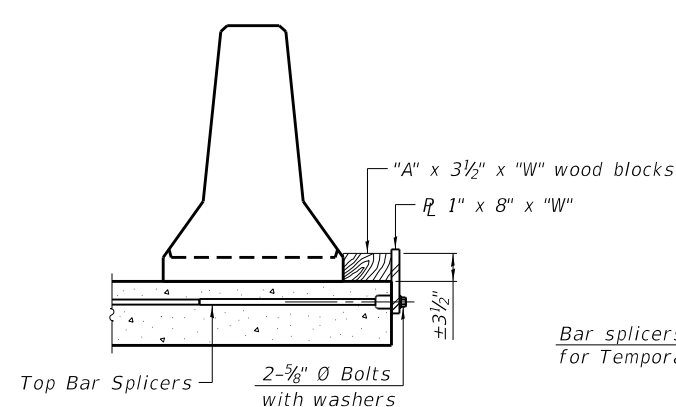


* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

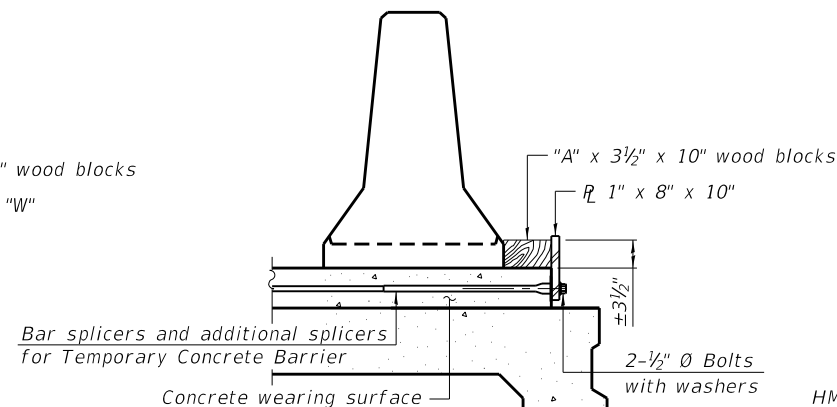
EXISTING DECK BEAM



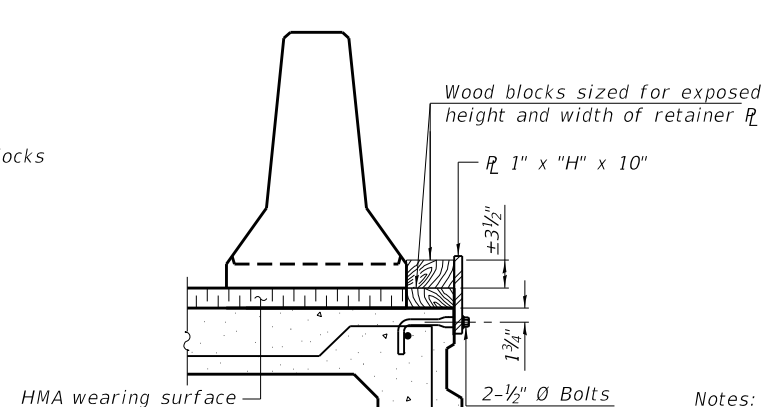
RESTRAINING PIN



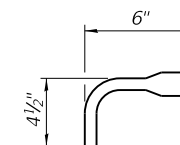
DETAIL I



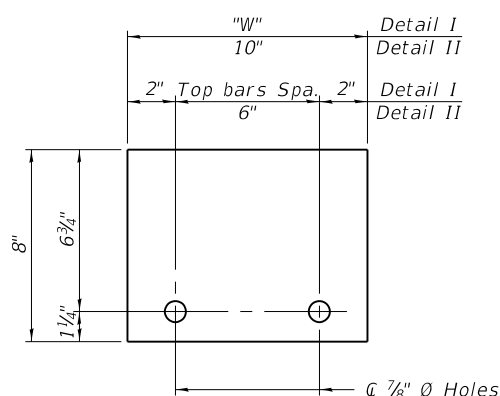
DETAIL II



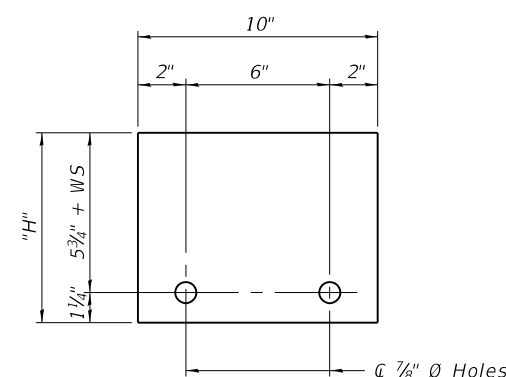
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate $\bar{C}$ of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.
See Roadway Plans for quantity.

MODEL Defaul
FILE NAME: 2020191190388W06 1-74 Bridge P5E614 CADD - DWG14.4 Struct0900019-00201900019-002048F54-004 Temporary Barrier Details.dgn

R-27

2-17-2017



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DRAWN - DRA
CHECKED - CDK
PLOT DATE = 12/1/2020

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PLOT DATE = 12/1/2020

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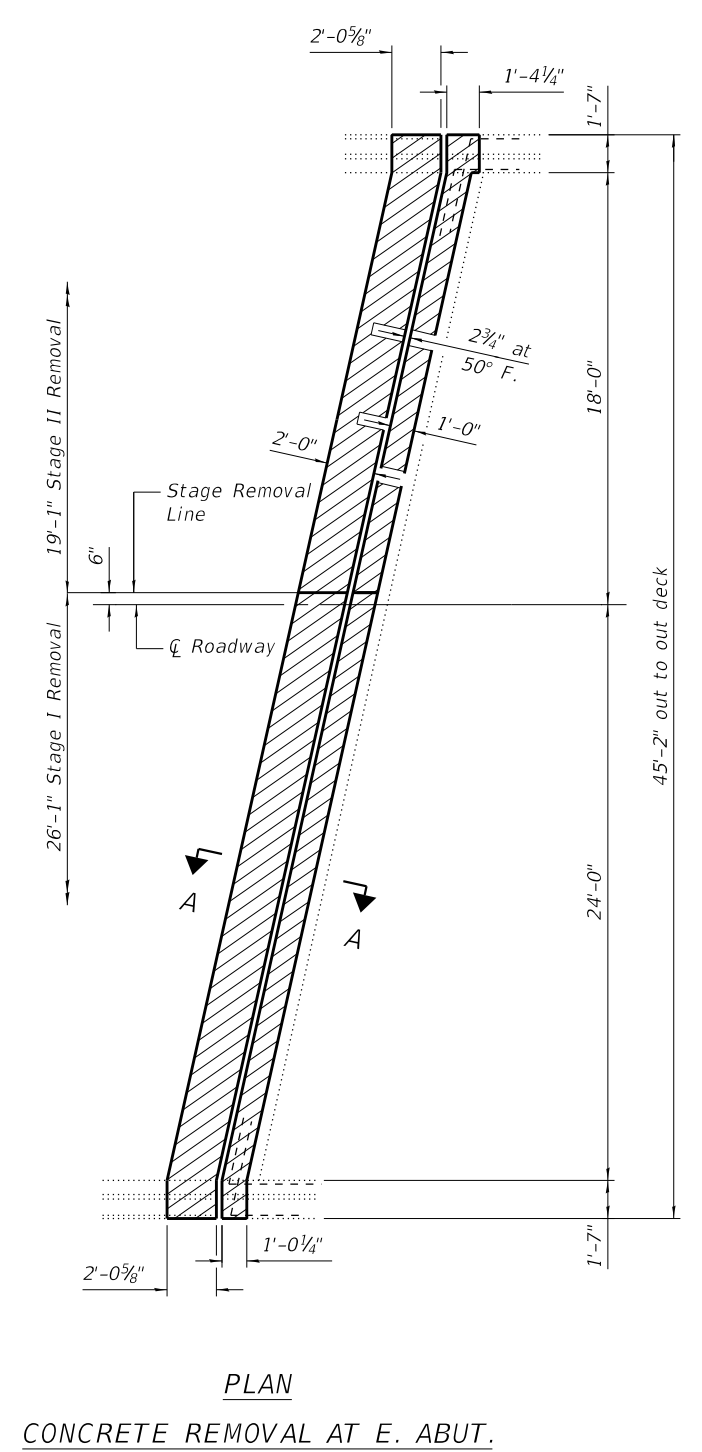
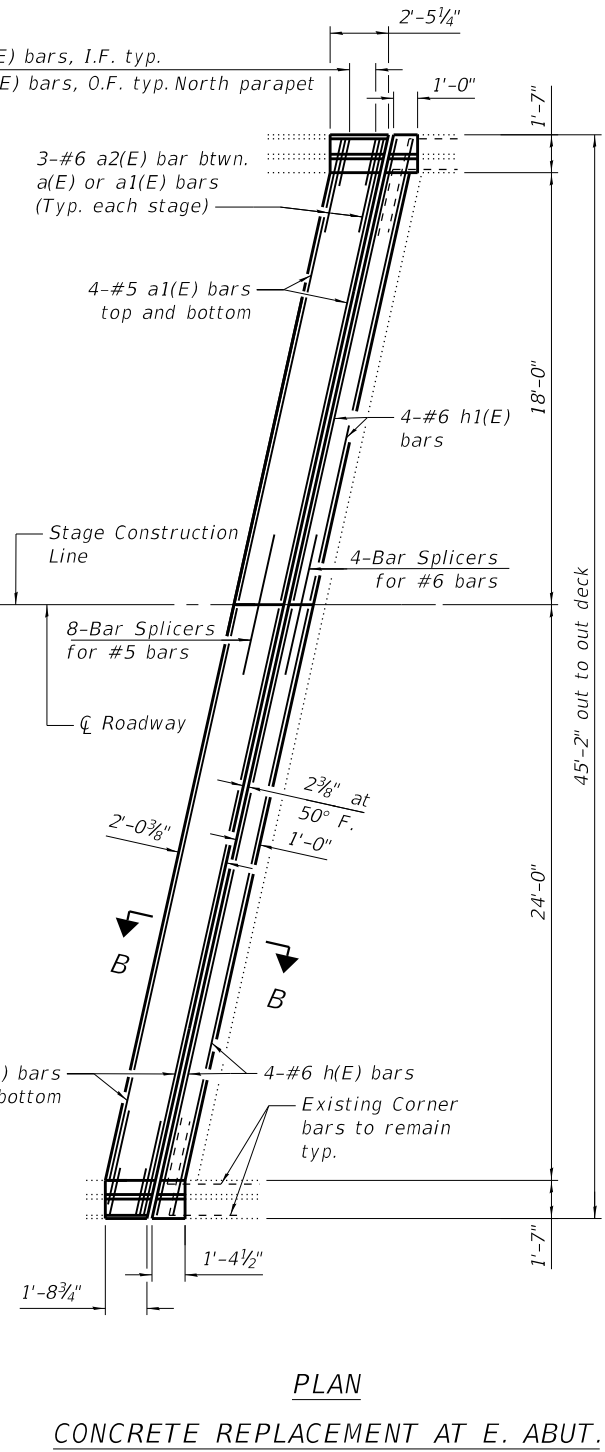
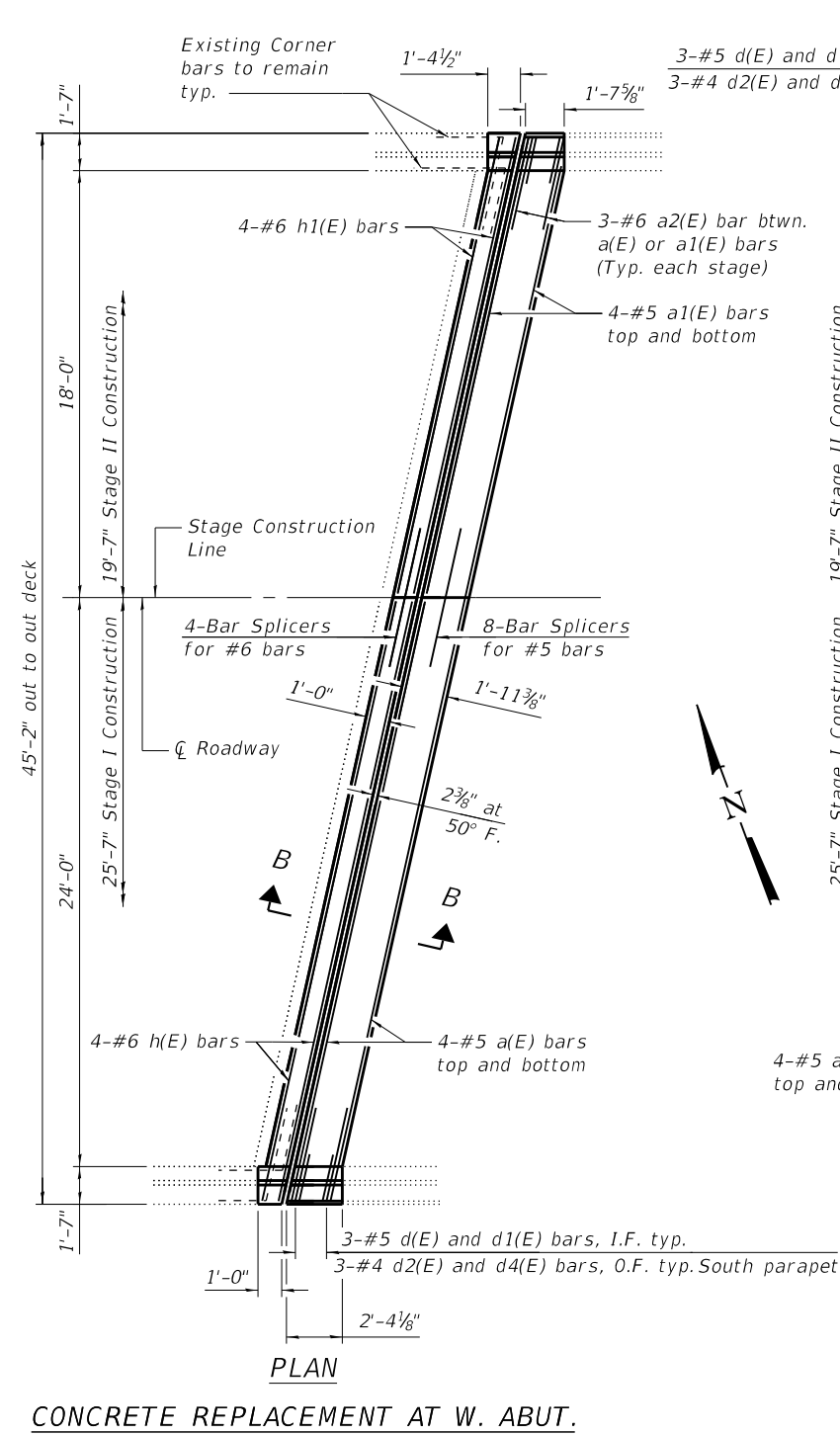
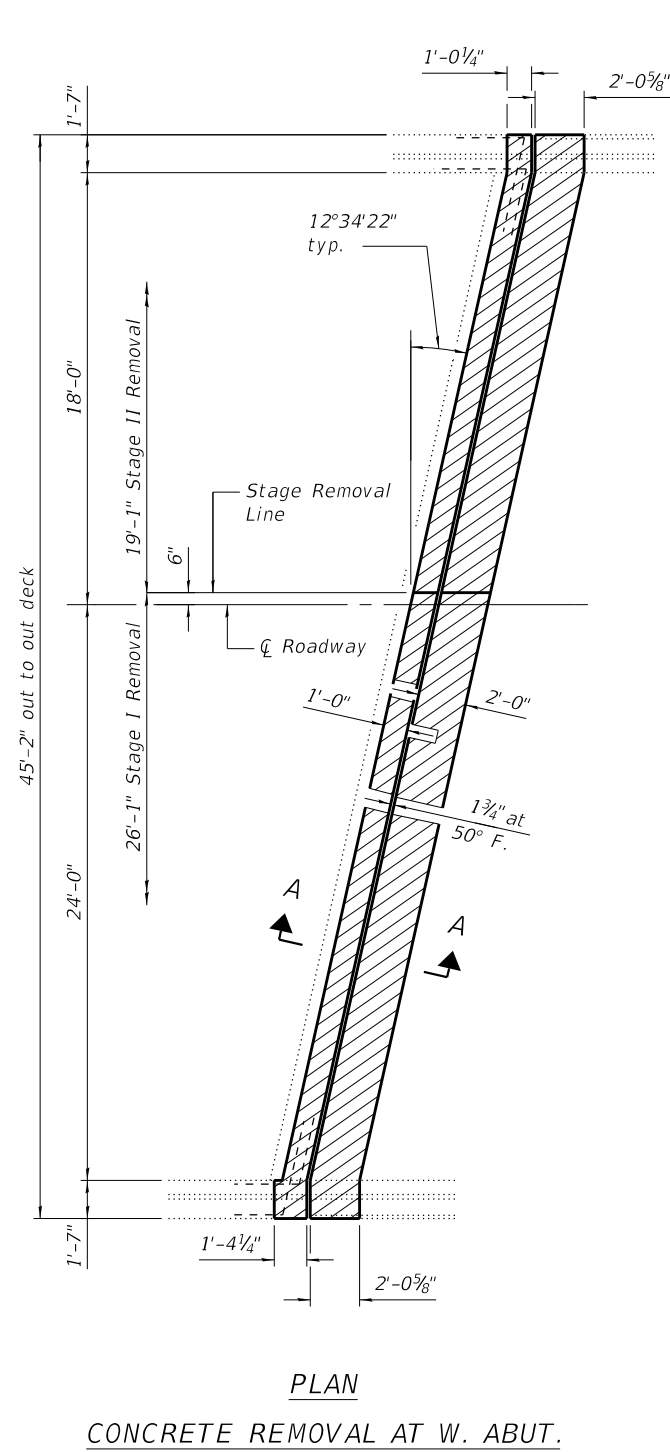
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 090-0019 & 090-0020

SHEET 4 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[H8(1-4);V8;B]BP,BJR,BRR	TAZEWELL	192	48
				CONTRACT NO. 68F54
				ILLINOIS FED. AID PROJECT

MODEL Dwg: JT
FILE NAME: 2020191190388W06 1-7A Bridge F5E54 CADD - DWG4.4 Struct0900019-002019000019-002048F54-005 Joint Repair Detail Plan 0019.dgn



Notes:
Hatched areas indicate Concrete Removal.
For Section views, see Sheet 7 of 37.
Dimensions are based on a Rolled Rail Strip Seal joint. If the contractor elects to use the Welded Rail Strip Seal joint, deck dimensions may require adjustments to satisfy the details on Base Sheet EJ-SS.



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PLOT DATE = 12/1/2020

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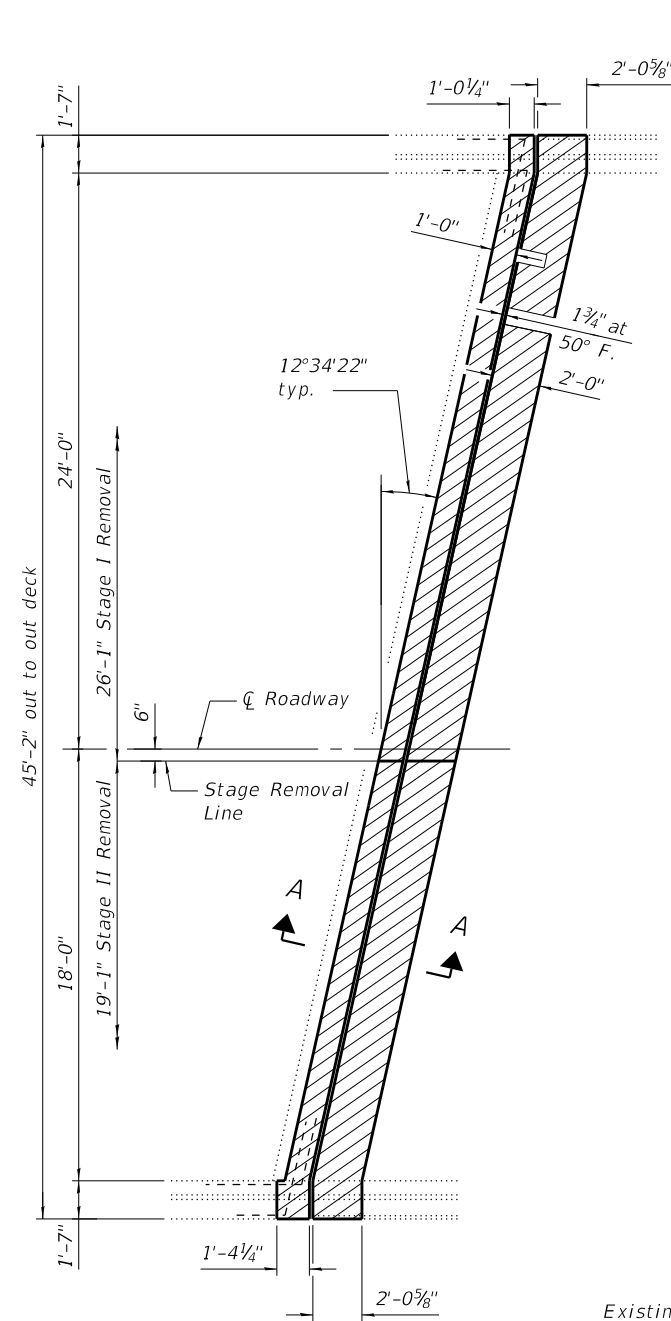
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT PLAN
SN. 090-0019

SHEET 5 OF 37 SHEETS

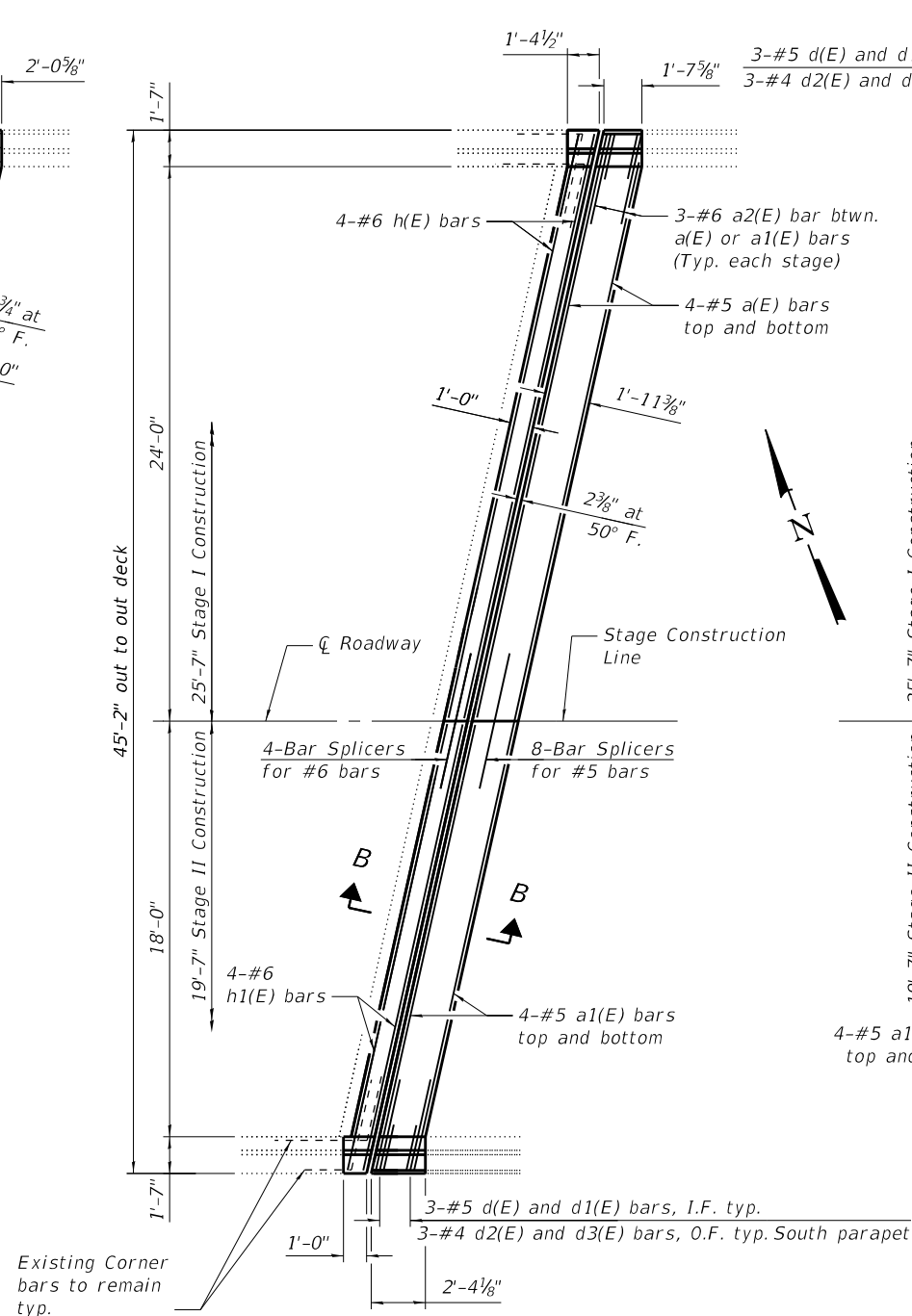
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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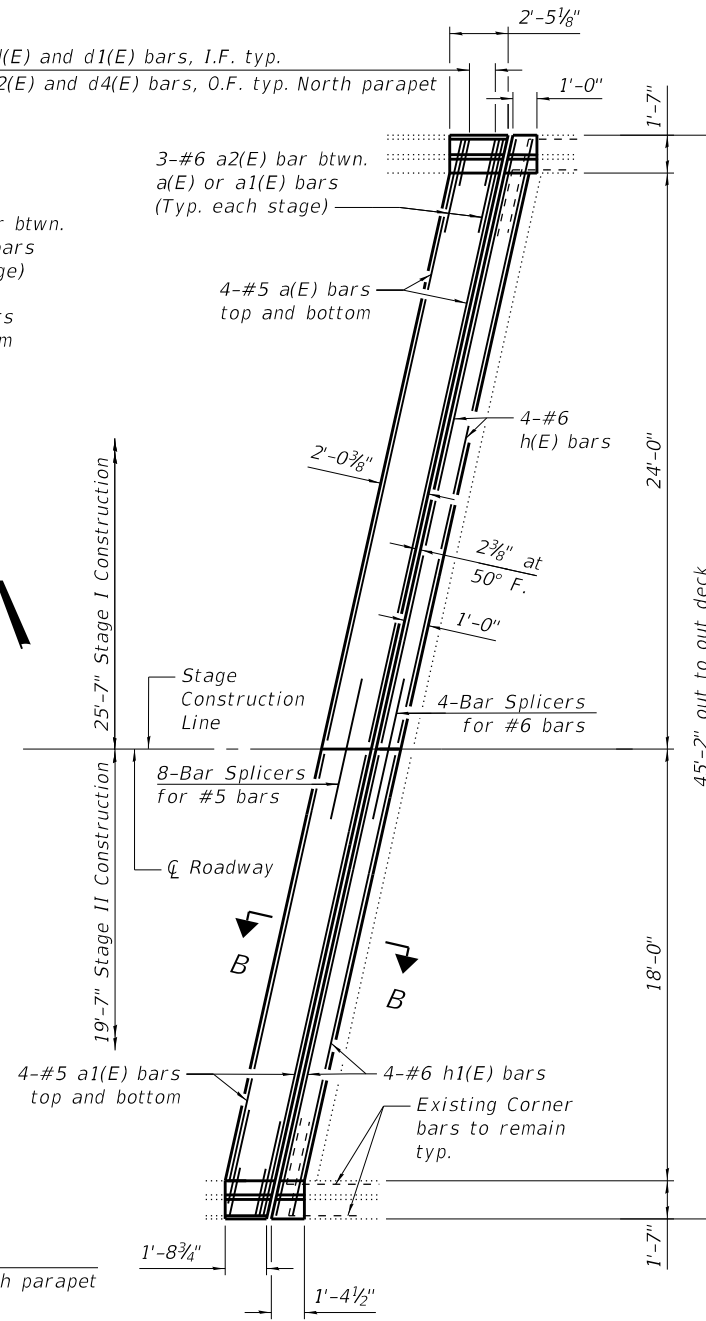
PLAN

CONCRETE REMOVAL AT W. ABUT.



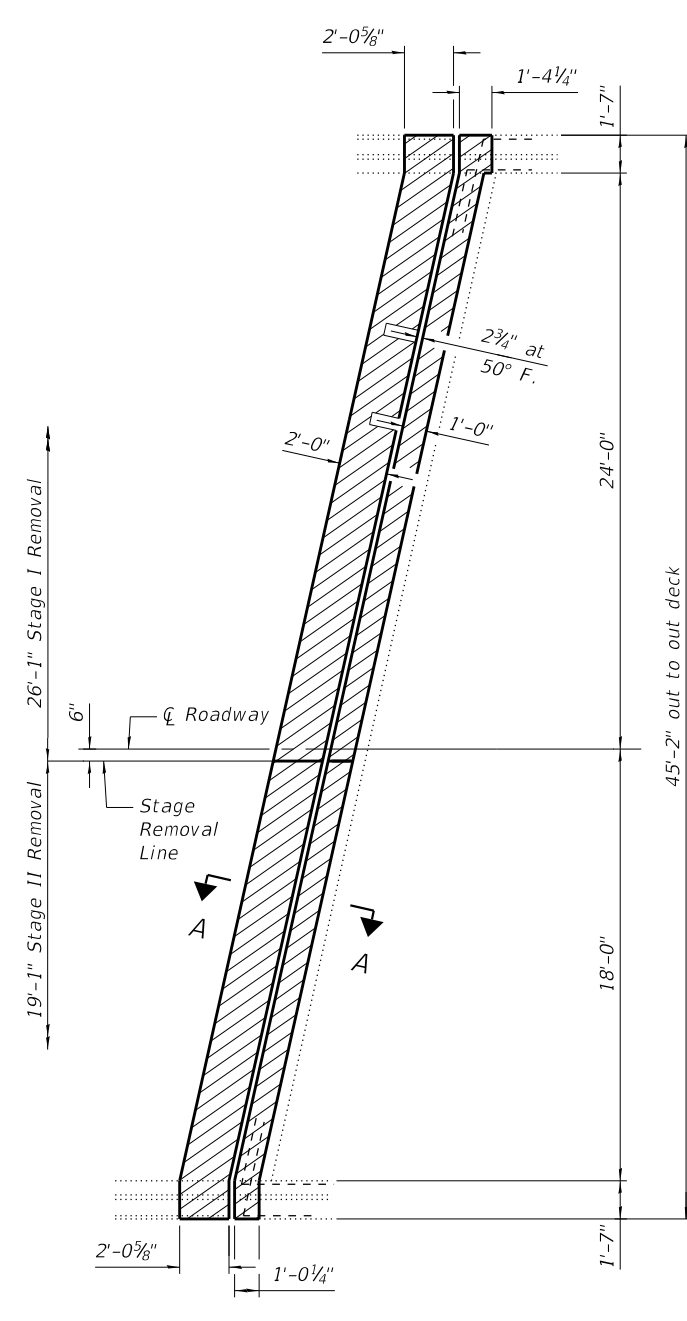
PLAN

CONCRETE REPLACEMENT AT W. ABUT.



PLAN

CONCRETE REPLACEMENT AT E. ABUT.



PLAN

CONCRETE REMOVAL AT E. ABUT.

Notes:
Hatched areas indicate Concrete Removal.
For Section views, see Sheet 7 of 37.
Dimensions are based on a Rolled Rail Strip Seal joint. If the contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Base Sheet EJ-SSJ.



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CHECKED - CDK
PLOT DATE = 12/1/2020

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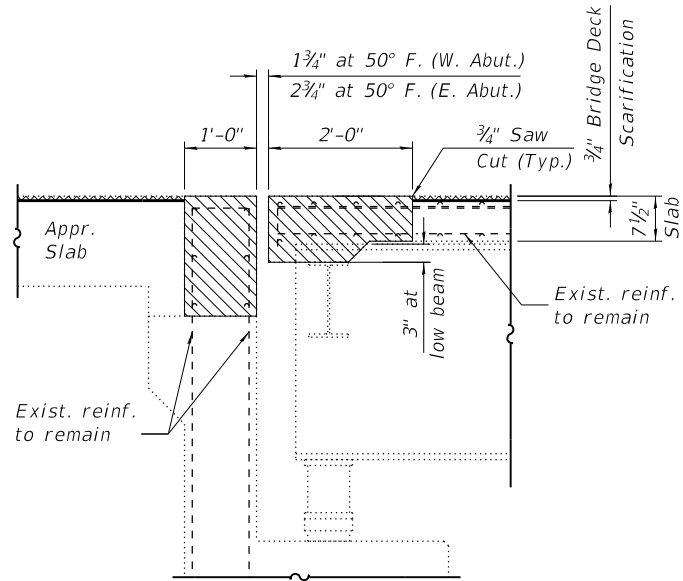
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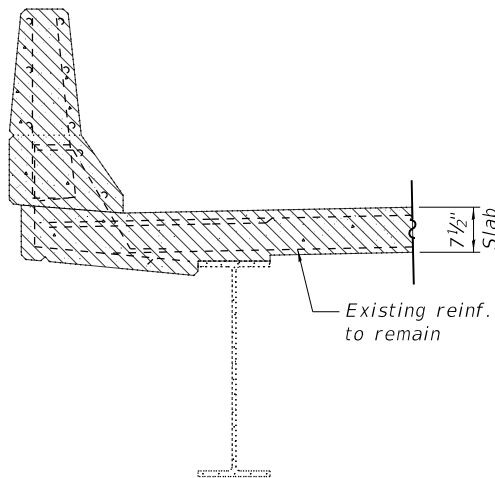
JOINT REPLACEMENT PLAN
SN. 090-0020

SHEET 6 OF 37 SHEETS

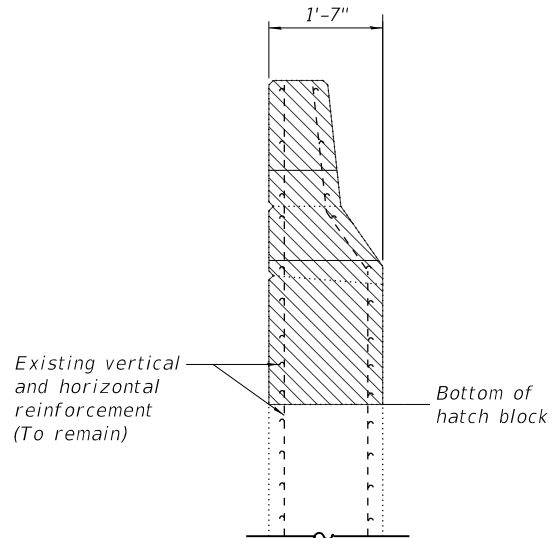
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



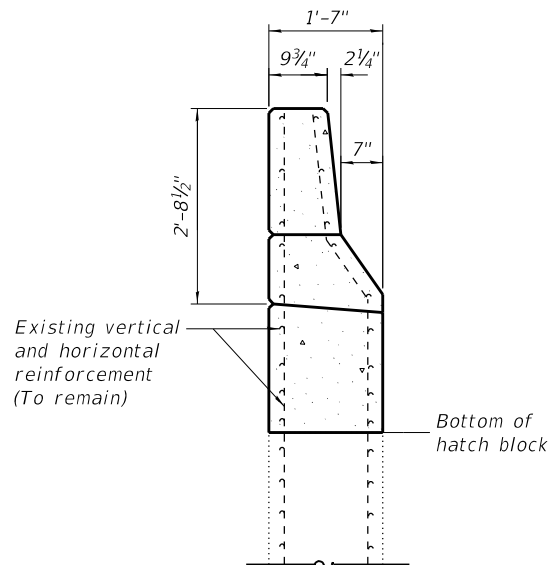
SECTION A-A
(Dims. at Rt. L's to end of deck)



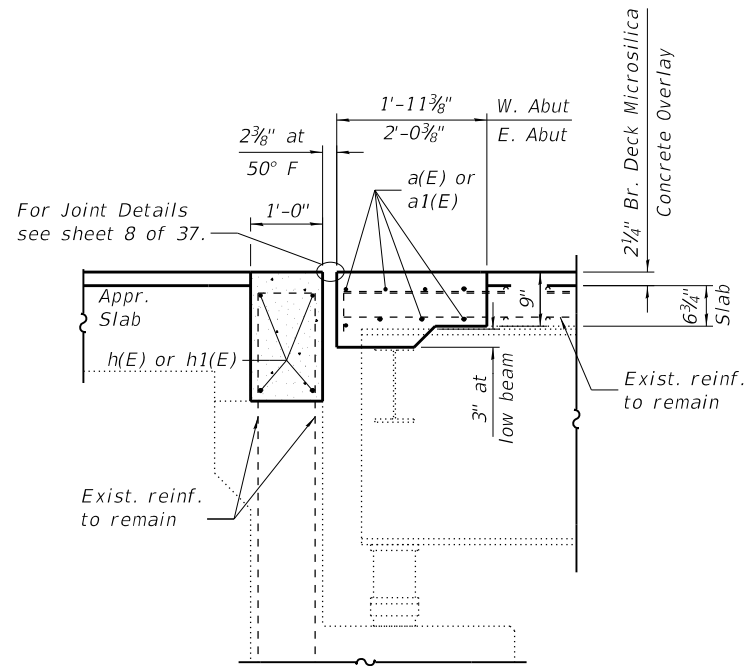
SECTION THRU PARAPET
(Showing Removal)



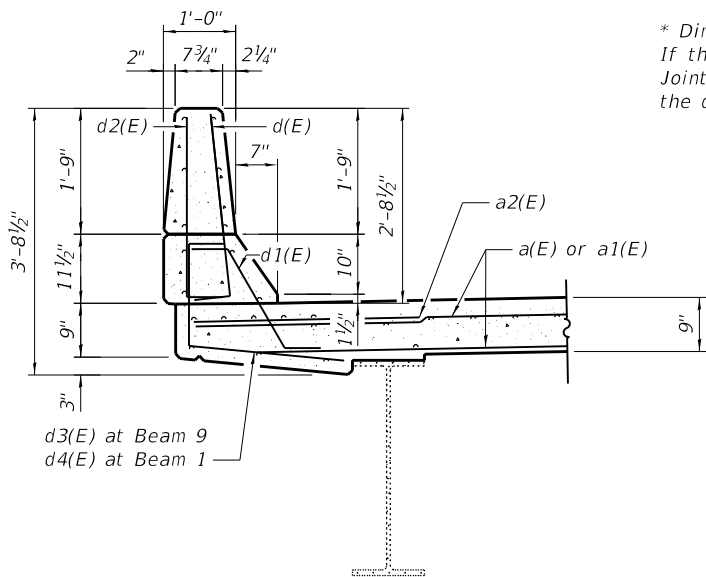
SECTION THRU WINGWALL
(Showing Removal)



SECTION THRU WINGWALL
(Proposed)



SECTION B-B
(Dims. at Rt. L's to end of deck)



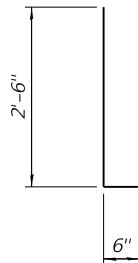
SECTION THRU PARAPET
(Proposed)

* Dimensions are based on a Rolled Rail Strip Seal Joint.
If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Sheet 8 of 37.

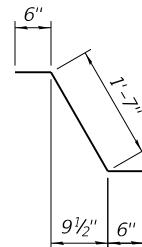
TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	32	#5	25'-10"	
a1(E)	32	#5	19'-8"	
a2(E)	24	#6	4'-0"	
d(E)	24	#5	3'-0"	
d1(E)	24	#5	2'-7"	
d2(E)	24	#4	3'-0"	
d3(E)	12	#4	2'-10"	
d4(E)	12	#4	3'-4"	
h(E)	16	#6	25'-10"	
h1(E)	16	#6	19'-8"	
Concrete Removal			Cu. Yd.	25.0
Concrete Superstructure			Cu. Yd.	27.7
Reinforcement Bars, Epoxy Coated			Pound	3000

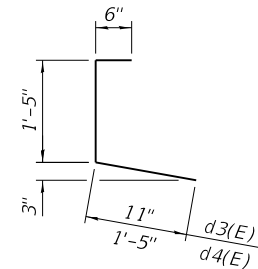
Notes:
Hatched areas indicate Concrete Removal.
Cross Hatched areas indicate Bridge Deck Scarification.



BARS d(E) & d2(E)



BAR d1(E)



BAR d3(E) & d4(E)

MODEL Default
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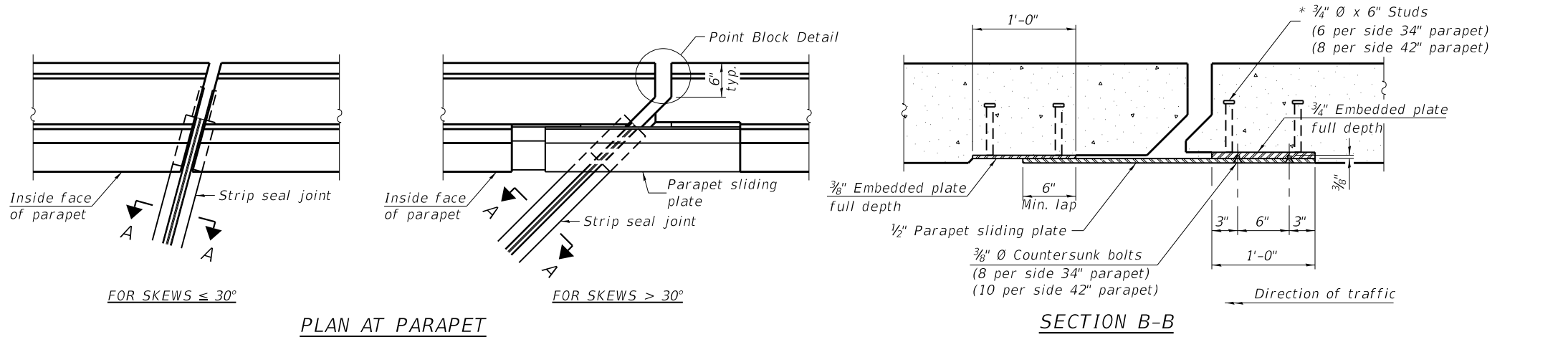
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DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS
SN. 090-0019 AND SN. 090-0020

SHEET 7 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	51
ILLINOIS			FED. AID PROJECT	



Notes:

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

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

The manufacturer's recommended installation methods shall be followed.

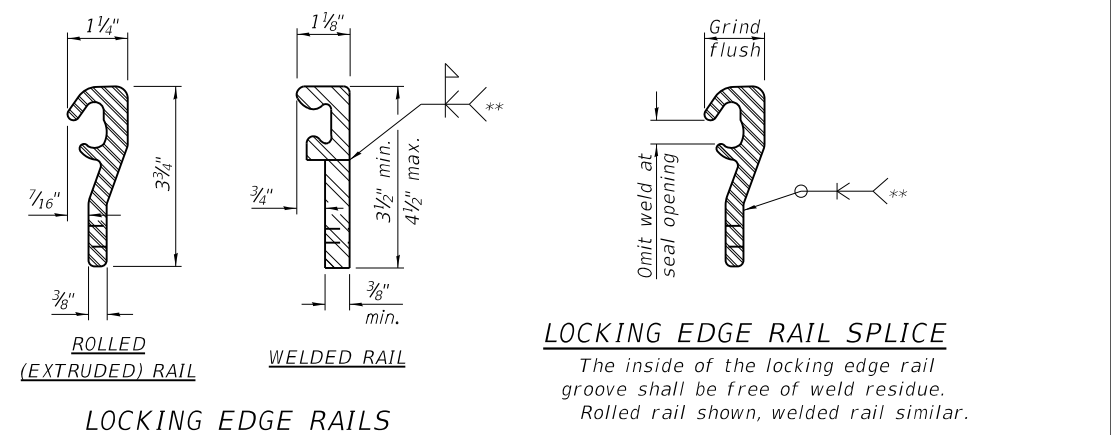
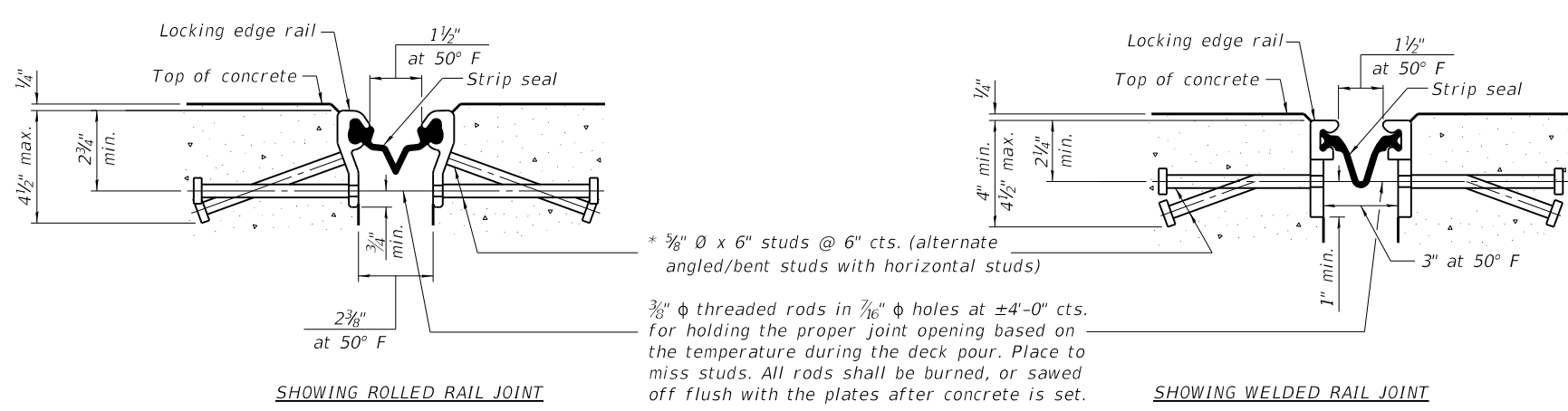
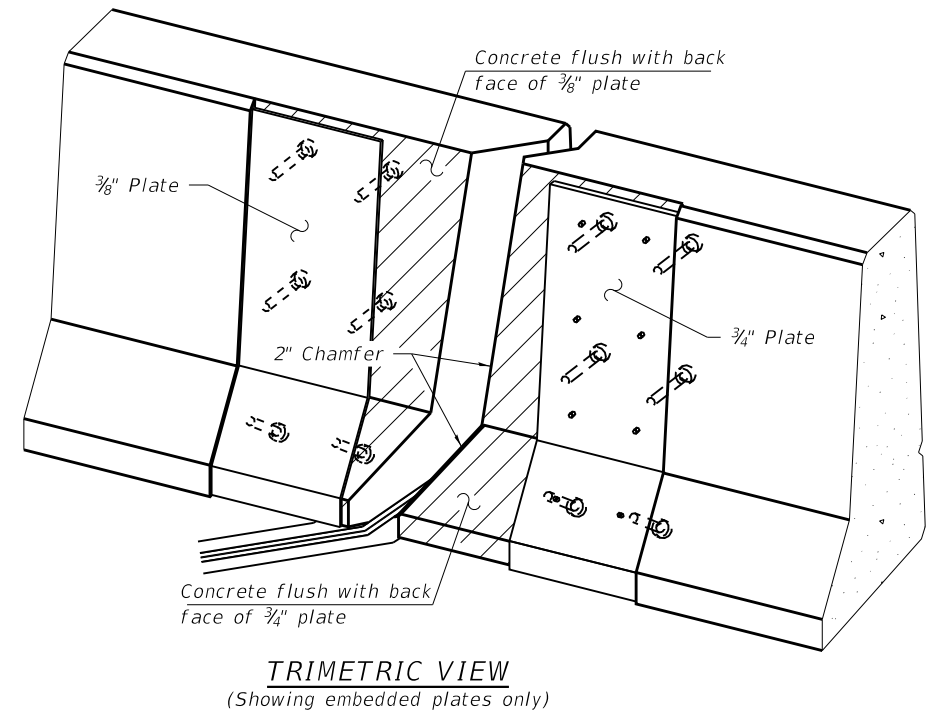
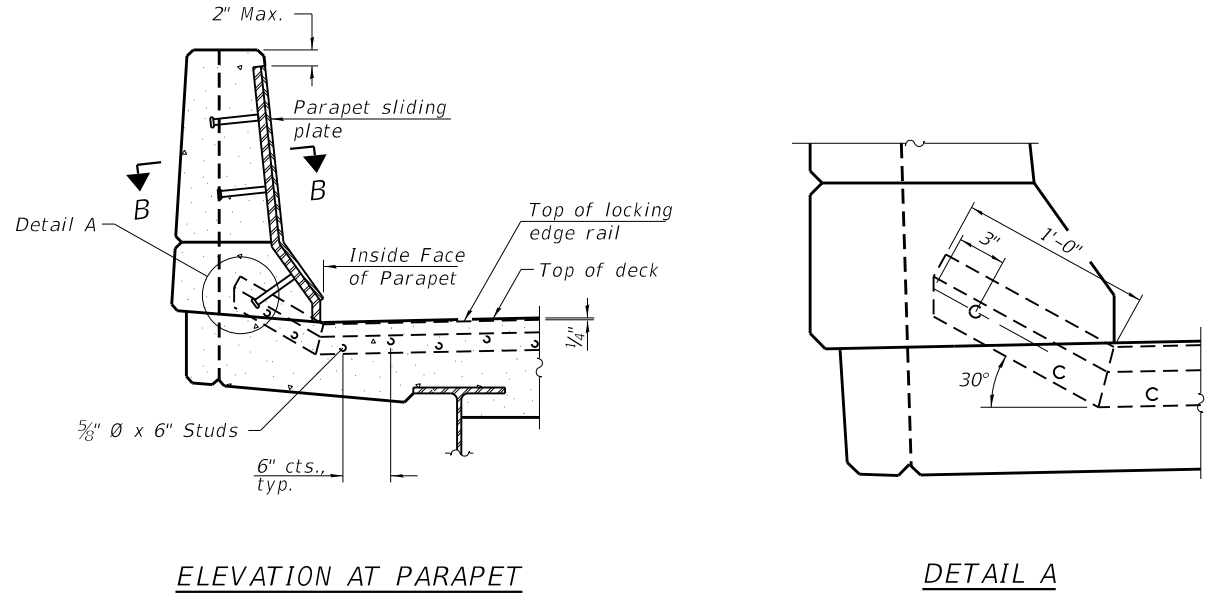
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 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.



TOTAL BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	181

MODEL: D:\efc\it...
FILE NAME: 202010191193388\W06 L7A Bridge F5E5d4 CADD - DWG\4.4 Struct\0900019-0020\0900019-0020-48F54-009_Preformed Joint Strip Seal.dgn

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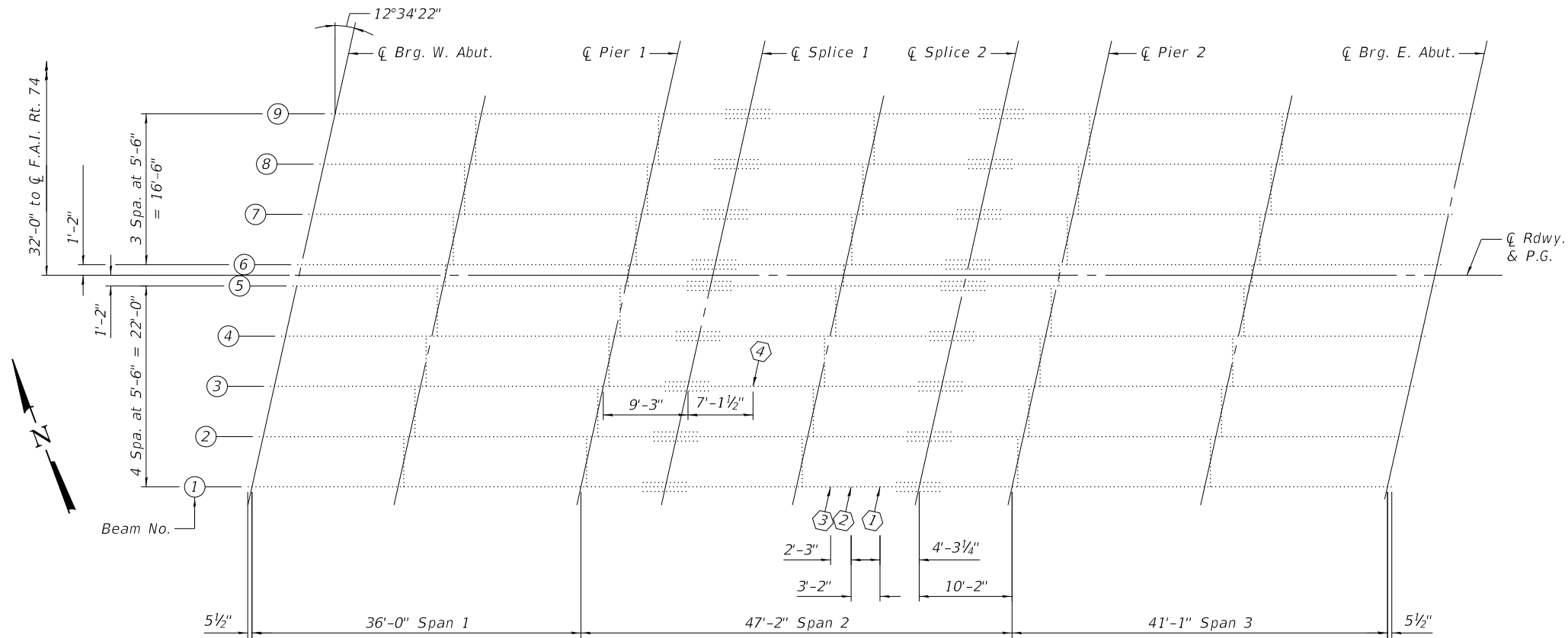
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DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 090-0019 & 090-0020

SHEET 8 OF 37 SHEETS

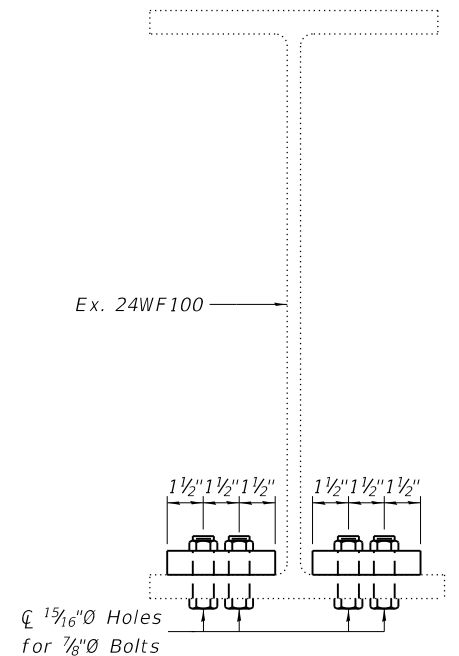
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



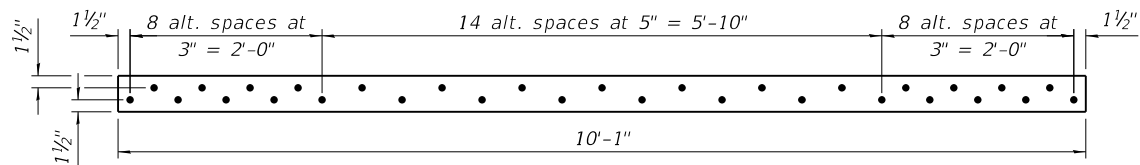
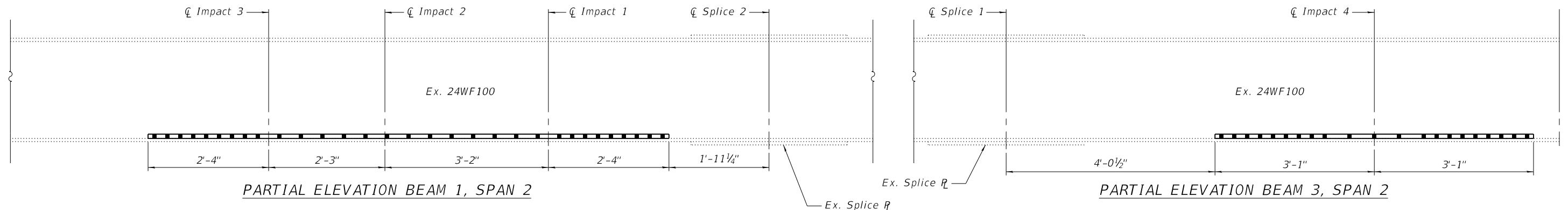
FRAMING PLAN

SN 090-0019

⬡ - Impact number and direction of impact
For impact deformations see sheet 10 of 37.

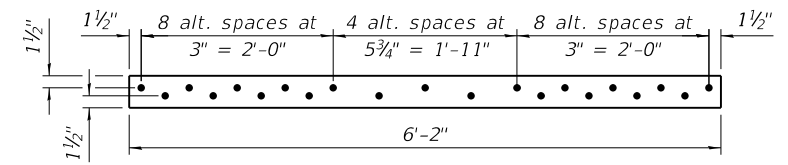


TYPICAL SECTION THRU STRENGTHENING PLATES



STRENGTHENING PLATES FOR BEAM 1, SPAN 2

2 1 1/8" x 4 1/2" x 10'-1" NTR (2 required)



STRENGTHENING PLATES FOR BEAM 3, SPAN 2

2 1 1/8" x 4 1/2" x 6'-2" NTR (2 required)

Notes:
Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
Cleaning & painting of all contact surfaces shall meet the requirements for Primary Connections as specified in the Special Provision for "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

BILL OF MATERIAL

Item	Unit	Quantity
Structural Steel Repair	Pound	710

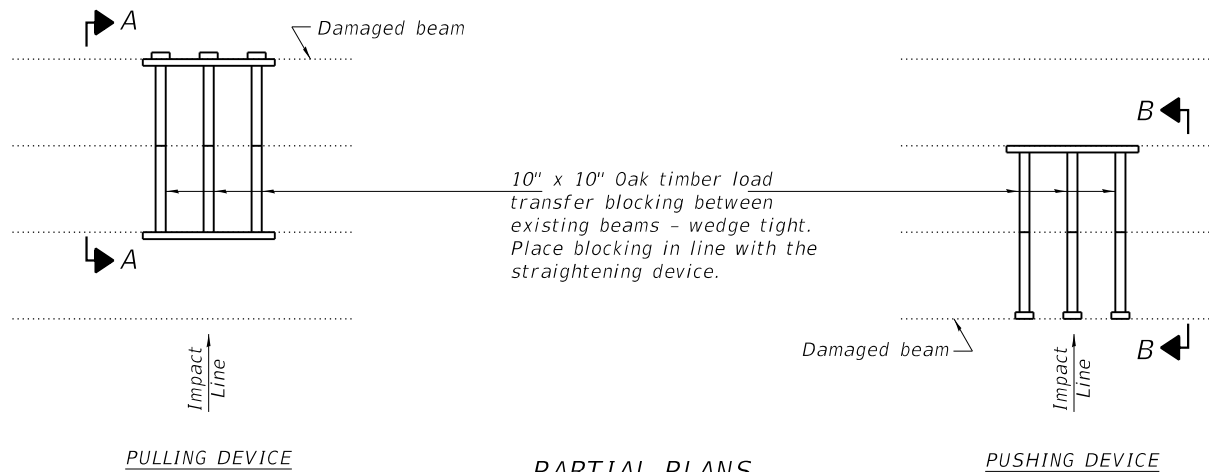
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FFRAMING PLAN & BEAM STRENGTHENING
SN 090-0019

SHEET 9 OF 37 SHEETS

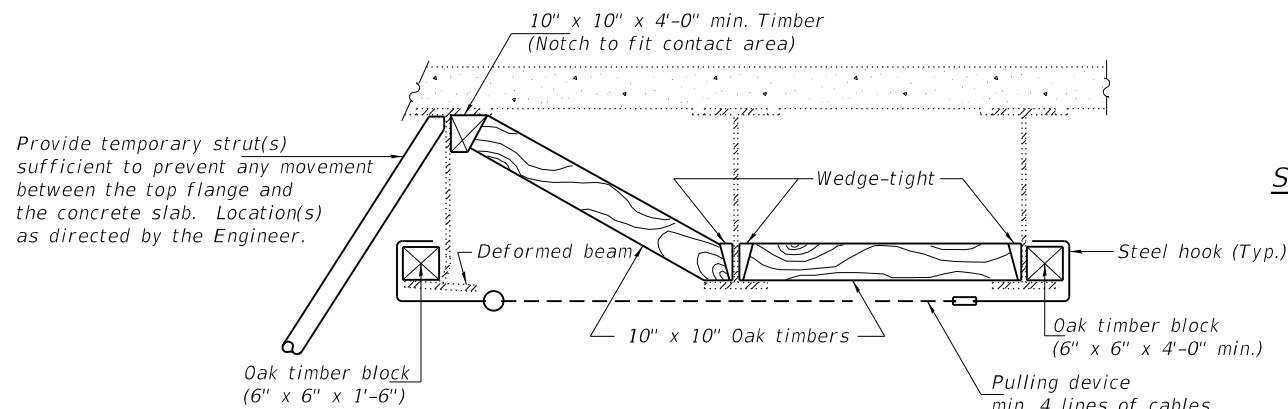
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CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

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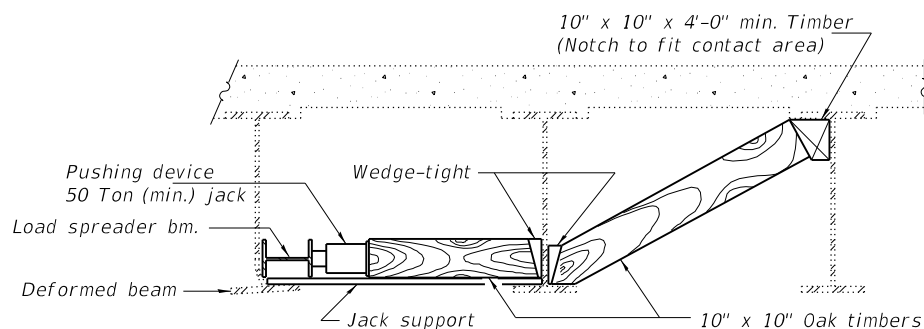


PARTIAL PLANS SUGGESTED BEAM STRAIGHTENING METHODS

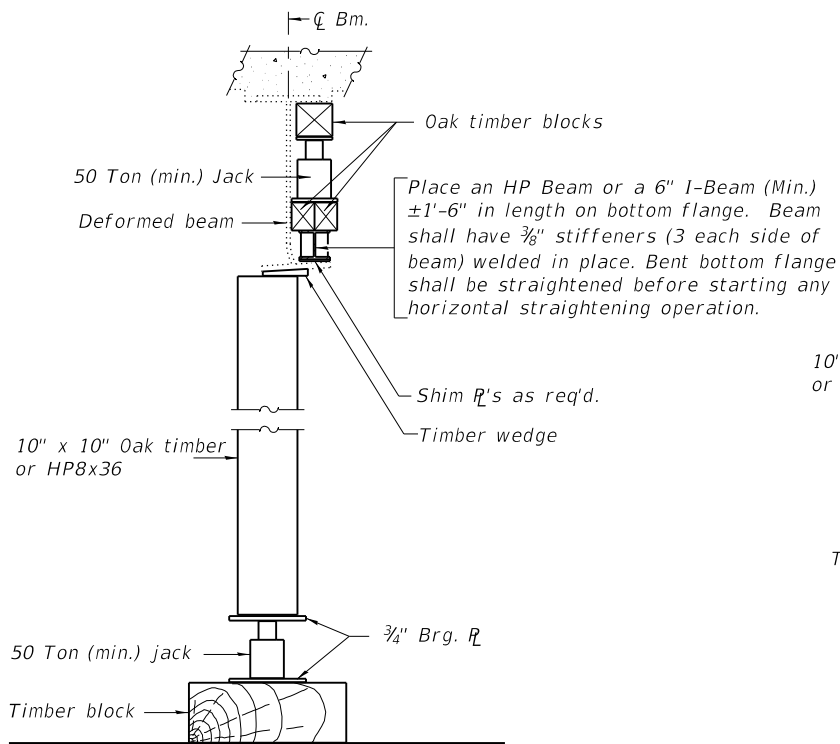
Straightening force shall be maintained on all load transfer blocking during beam straightening.



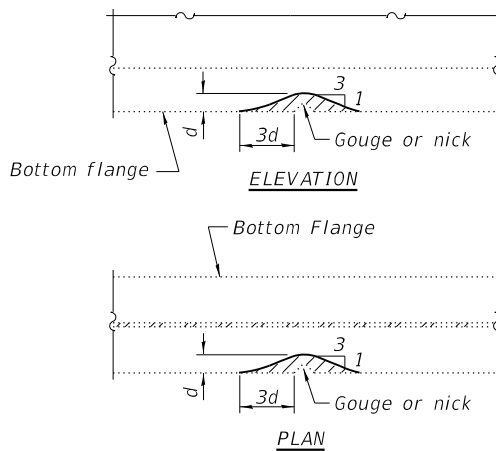
SECTION A-A



SECTION B-B

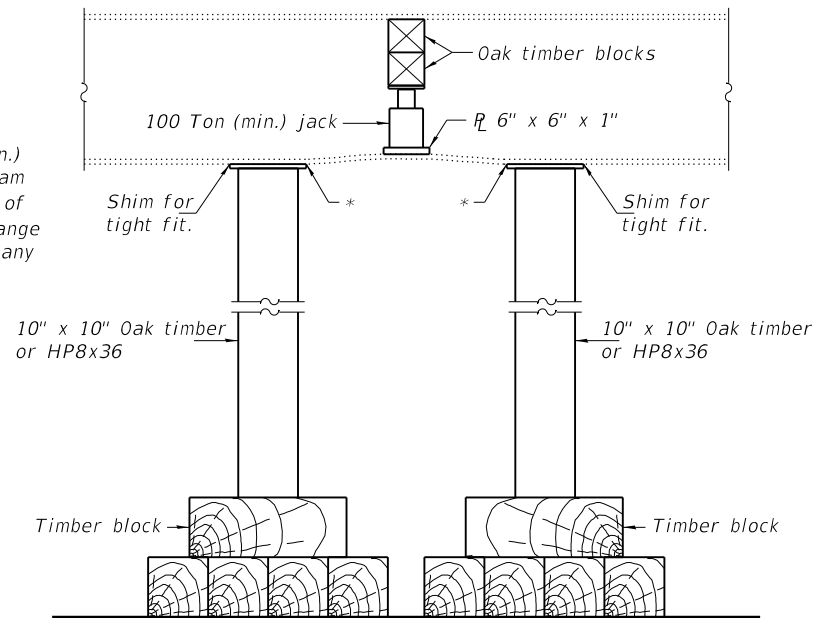


SUGGESTED VERTICAL STRAIGHTENING DETAIL (To correct flange rotation.)



GRINDING DETAIL

Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using dye penetrant or magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.



SUGGESTED VERTICAL STRAIGHTENING DETAIL (To correct localized vertical flange deformations.)

* Edge of plate shall line up with edge of deformation.

Note:
Braces and jack assembly shall be placed on same side of web.
Bent bottom flange shall be straightened before starting any horizontal straightening operations.

BEAM DEFORMATIONS

EXISTING DEFORMATION TO BE STRAIGHTENED

(Looking West - Beam 1)
(Looking East - Beam 3)
(Approximate max. deflections)
Deflected length of beam to be straightened is approximately 14'-0" at Beam 1 and 8'-0" at Beam 3.

REP-1 8-16-2018



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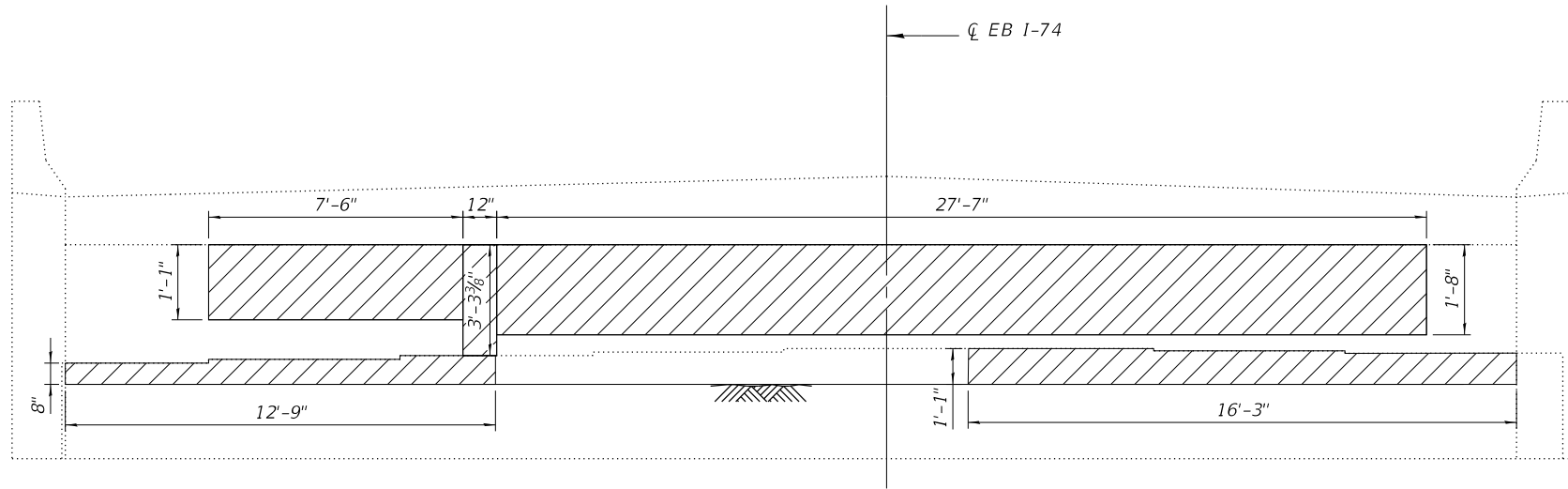
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DEPARTMENT OF TRANSPORTATION**

**BEAM STRAIGHTENING
STRUCTURE NO. 090-0019**

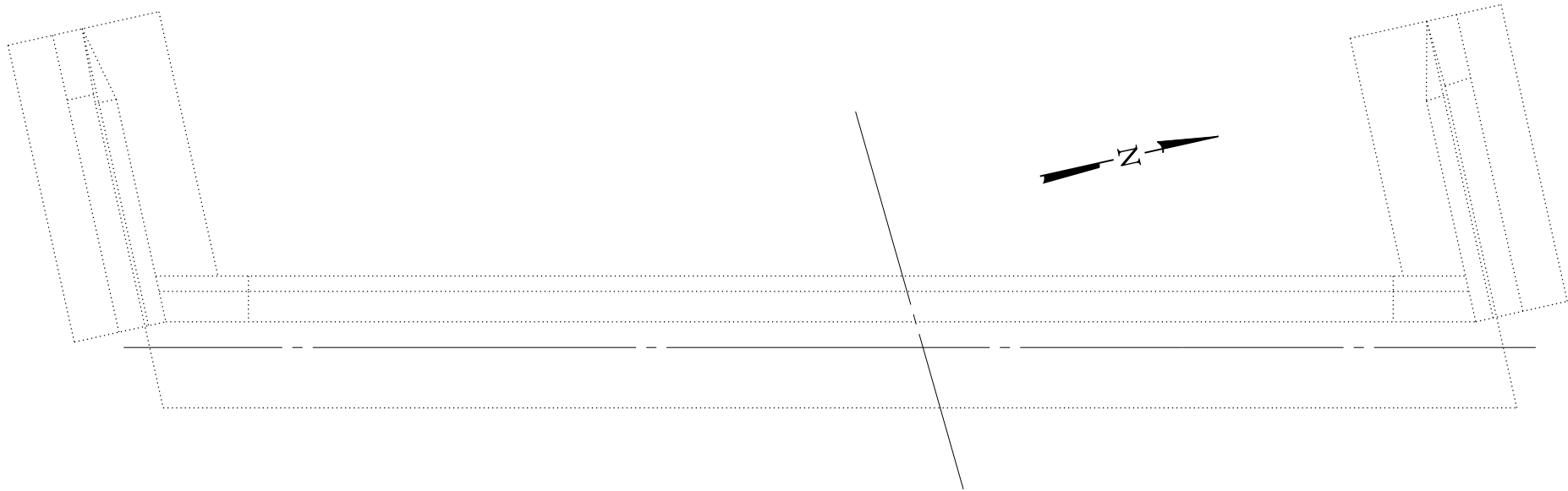
SHEET 10 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	54
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



ELEVATION - REPAIR

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



PLAN - REPAIR

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	83.5

MODEL: Default
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PLOT DATE	= 12/1/2020

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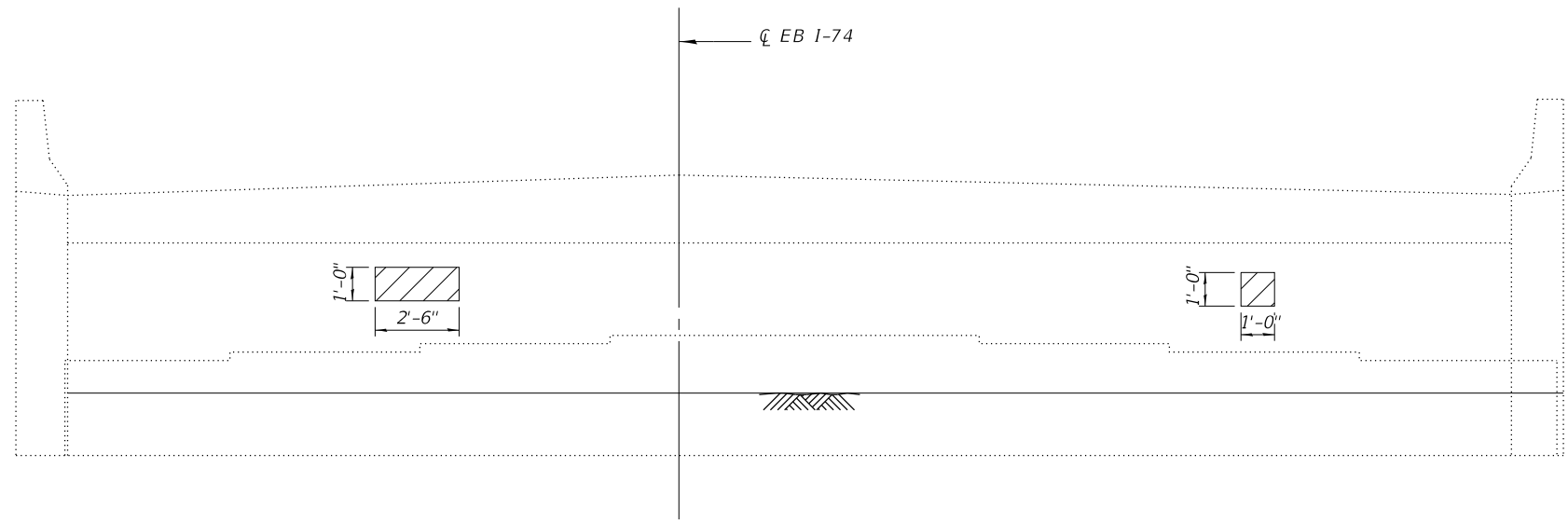
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DEPARTMENT OF TRANSPORTATION

W. ABUTMENT CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0019

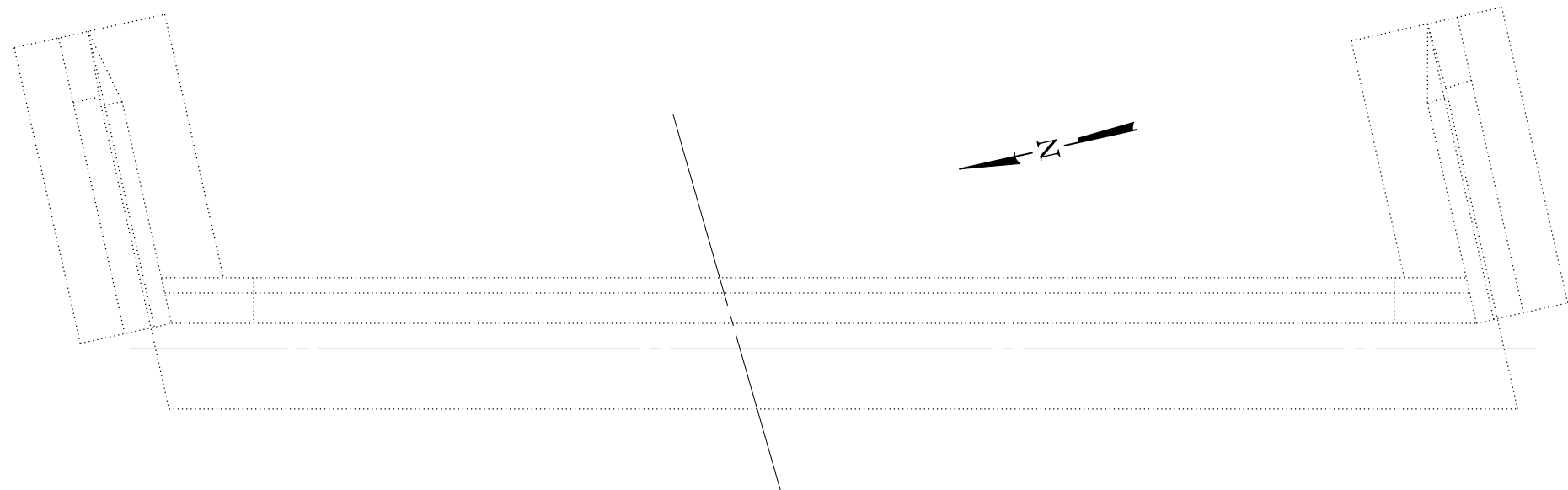
SHEET 11 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	55
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



ELEVATION - REPAIR

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



PLAN - REPAIR

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	3.5

MODEL: Default
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LICENSE NO:
184-001220

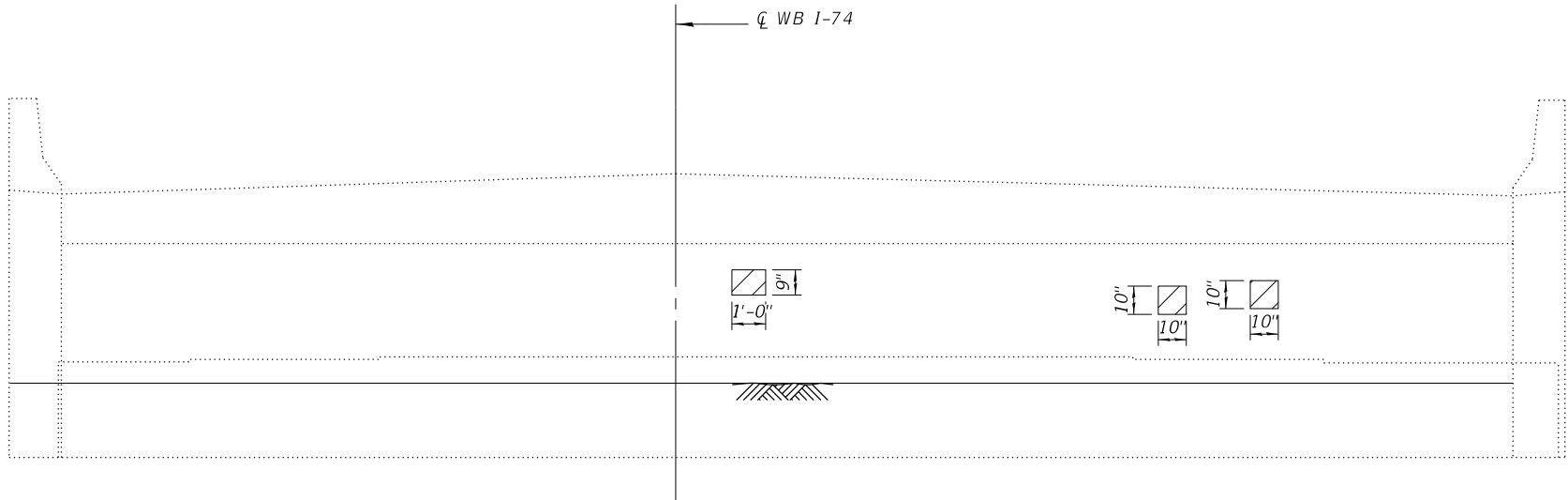
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PLOT DATE = 12/1/2020	CHECKED - MJJ	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**E. ABUTMENT CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0019**

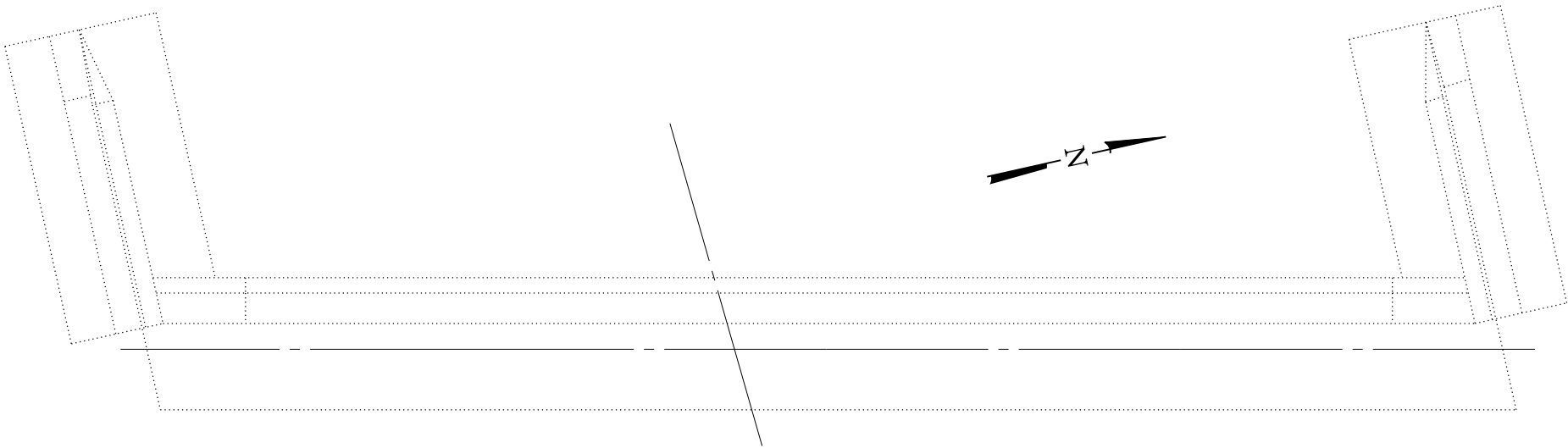
SHEET 12 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	56
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



ELEVATION - REPAIR

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



PLAN - REPAIR

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	2.1

MODEL: Default
FILE: W:\MSD\12\1019\190388\W06 1-74 Bridge F5E514 CADD - DWG\4.4 Struct\0900019-0020\0900019-0020-48F54-013 W. Abutment Repair Details 0020.dgn



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IL DESIGN FIRM
LICENSE NO:
184-001220

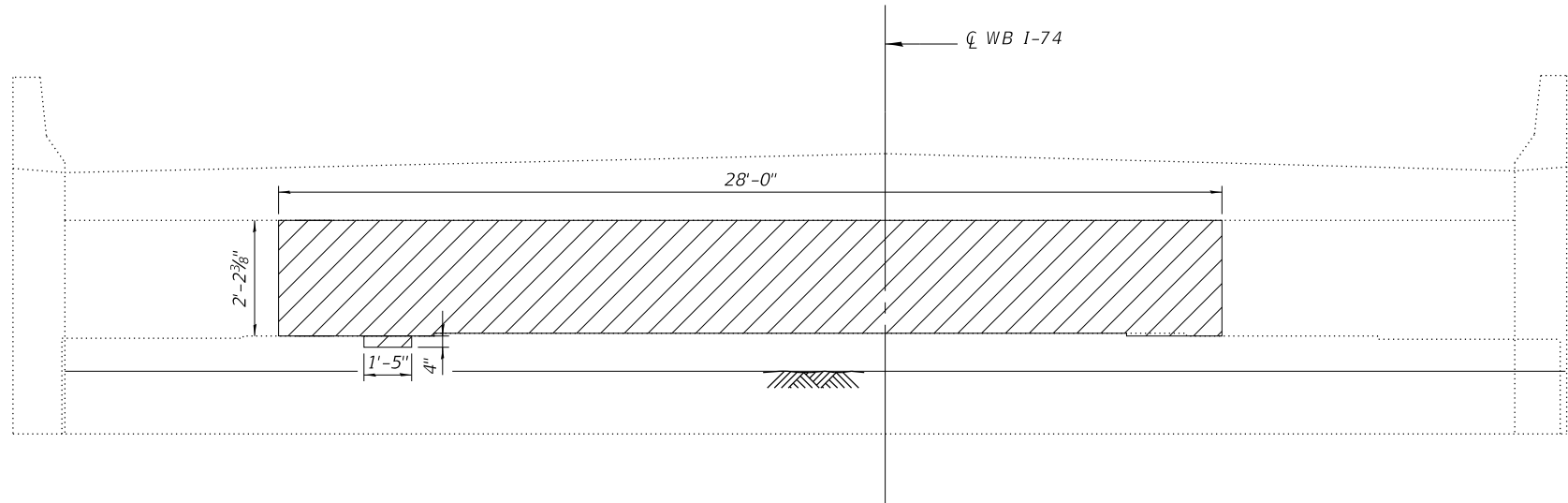
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PLOT DATE = 12/1/2020	CHECKED - MJJ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. ABUTMENT CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0020

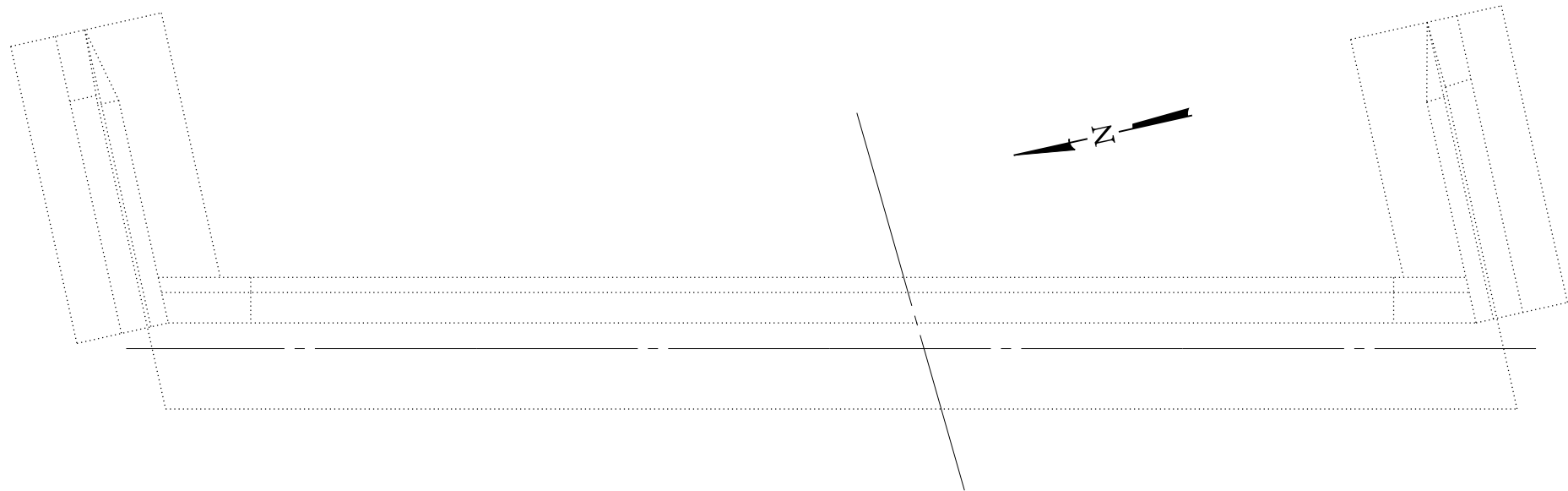
SHEET 13 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	57
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



ELEVATION - REPAIR

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



PLAN - REPAIR

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	62.0

MODEL: Default
FILE: \\TWI\12\12\19\190388\W06 1-74 Bridge F5E14 CADD - DWG\4.4 Struct\0900019-0020\0900019-0020-48F54-014 E - Abutment Repair Details 002.dgn



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LICENSE NO:
184-001220

USER NAME = mjoost	DESIGNED - NP	REVISED -
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PLOT DATE = 12/1/2020	CHECKED - MJJ	REVISED -

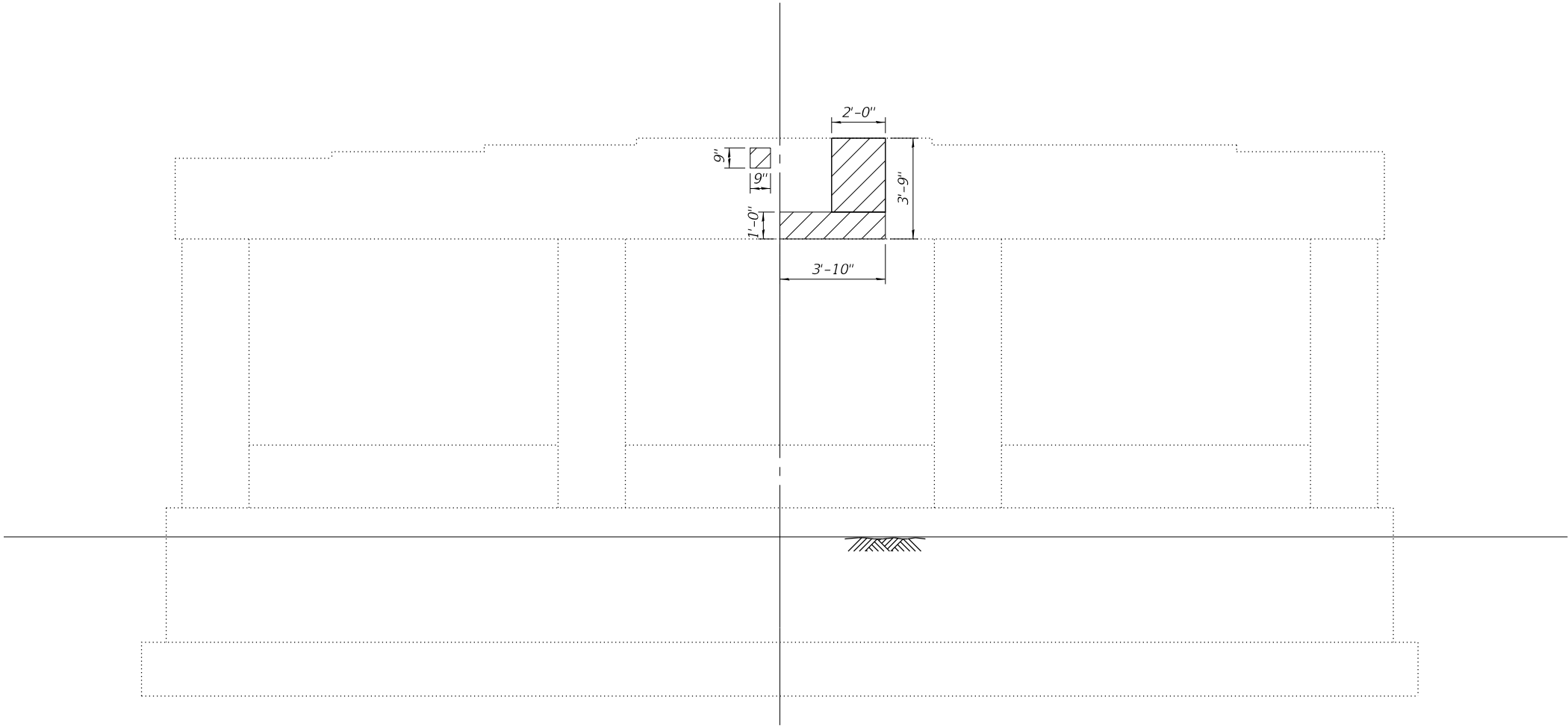
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E. ABUTMENT CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0020

SHEET 14 OF 37 SHEETS

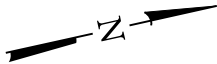
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	58
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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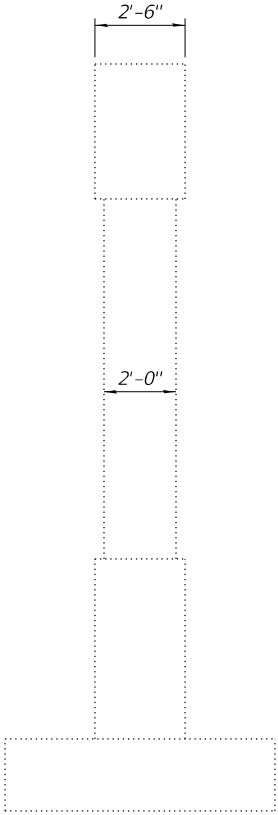


EAST PIER ELEVATION - REPAIR
(Looking West)

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



EAST PIER FOOTING PLAN



END ELEVATION
(Looking North)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	9.9



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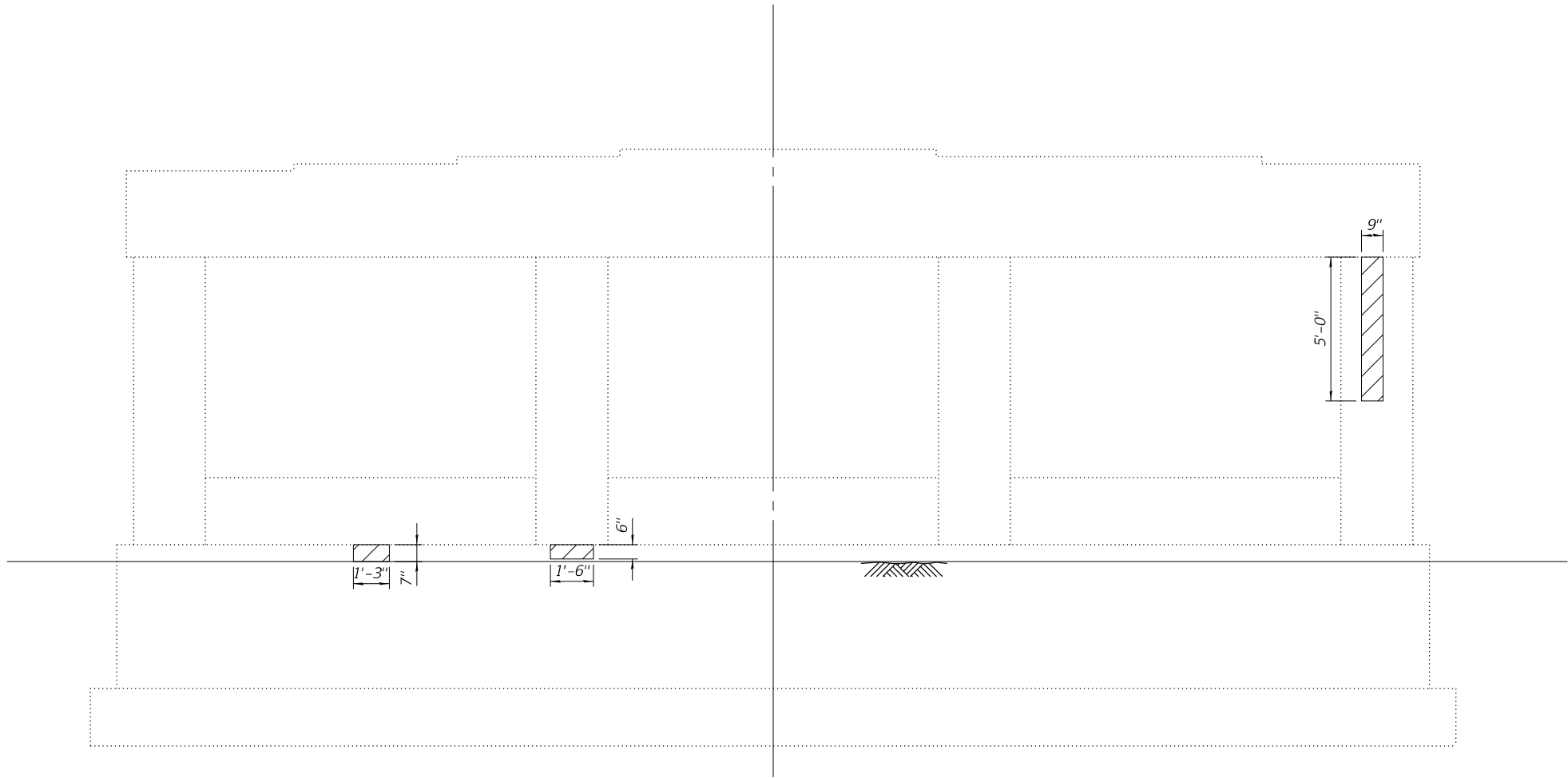
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	CHECKED - MJJ	REVISED -
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PLOT DATE = 12/1/2020	CHECKED - MJJ	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST PIER CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0019**

SHEET 15 OF 37 SHEETS

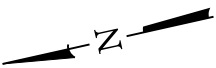
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74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	59
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



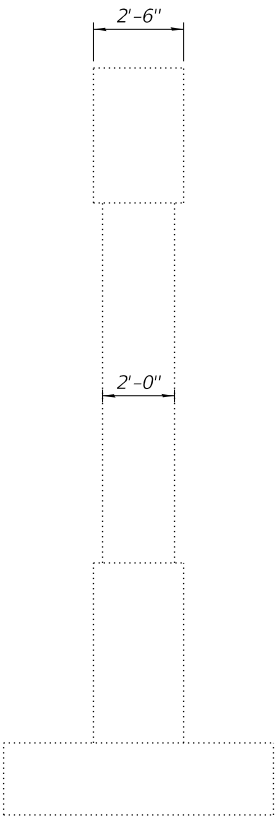
WEST PIER ELEVATION - REPAIR

(Looking East)

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



WEST PIER FOOTING PLAN



END ELEVATION

(Looking South)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	9.4

MODEL: Defaul
FILE: W09000019-00201903B0W06 1-7A Bridge P5E54 CADD - DWG04.4 Struct09000019-00201903048F54-016 W. Pier Repair Details 0019.dgn



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184-001220

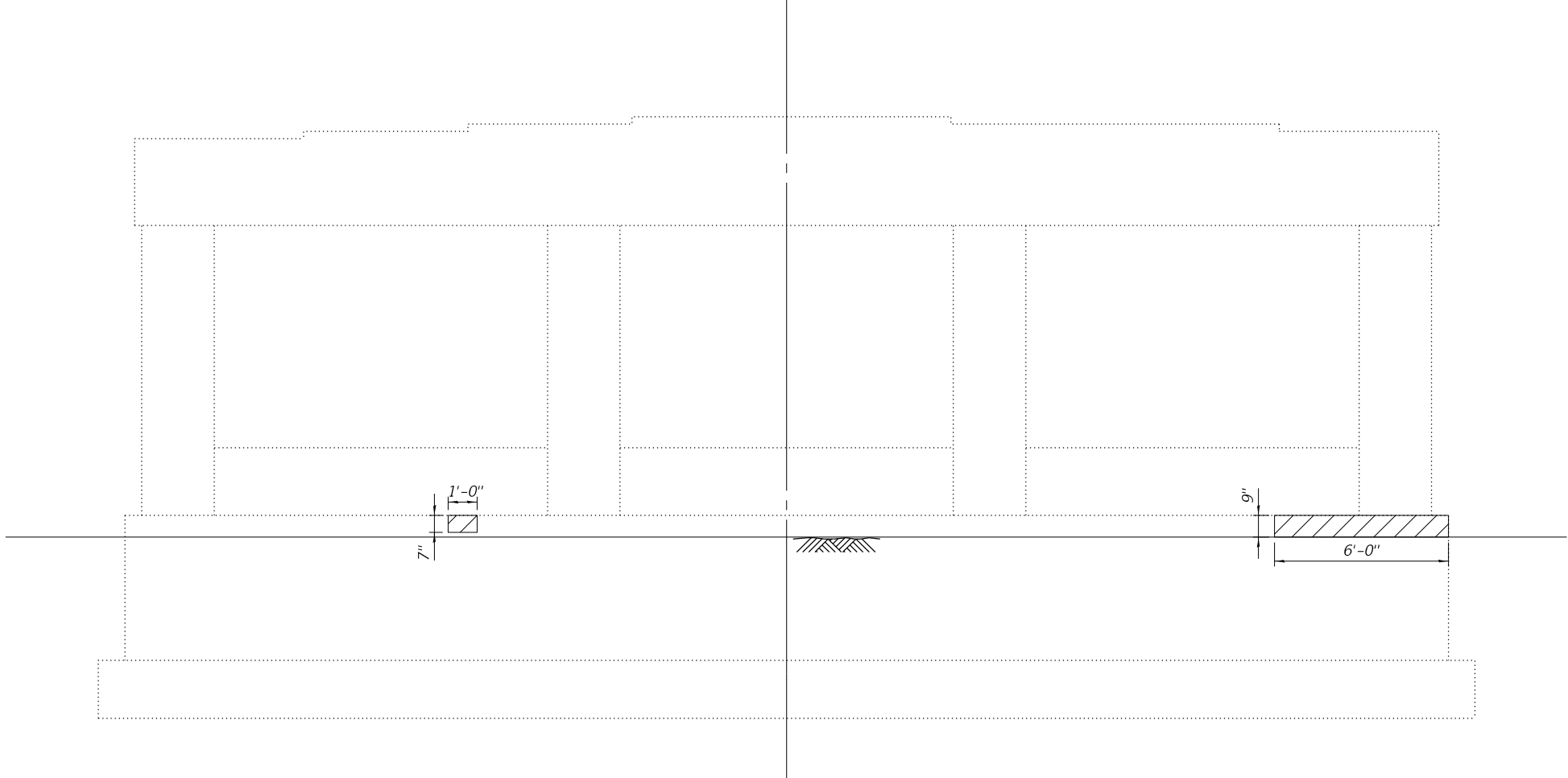
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PLOT DATE = 12/1/2020	CHECKED - MJJ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST PIER CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0019

SHEET 16 OF 37 SHEETS

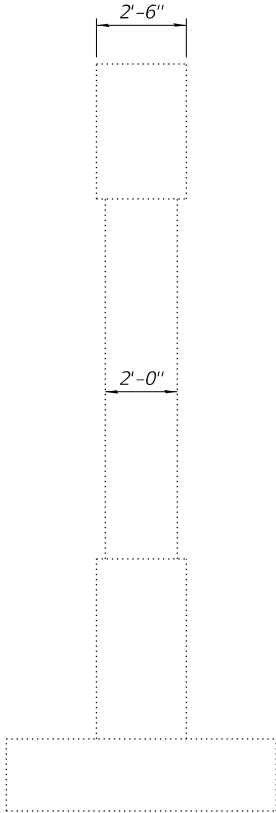
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	60
CONTRACT NO. 68F54				
		ILLINOIS	FED. AID PROJECT	



WEST PIER ELEVATION - REPAIR

(Looking East)

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



END ELEVATION

(Looking South)

Note:
No significant damage has been found in the East Pier.



WEST PIER FOOTING PLAN

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	5.1

MODEL: Default
FILE: 184-001220-19-0020190308W06 1-7A Bridge F5E14 CADD - DWG14.4 Struct09000019-0020190308W06 1-7A Pier Repair Details 0020.dgn



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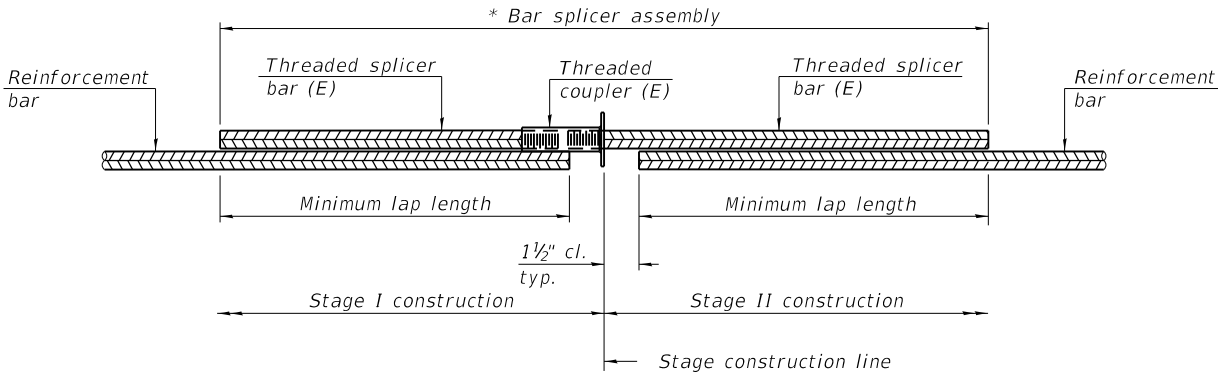
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PLOT DATE = 12/1/2020	CHECKED - MJJ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST PIER CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0020

SHEET 17 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	61
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

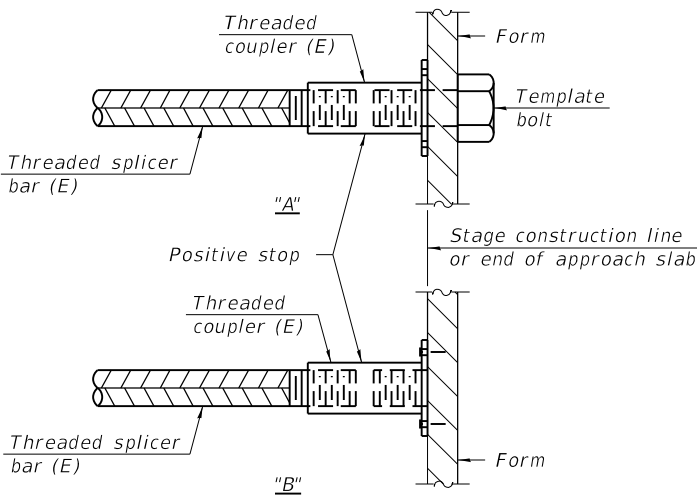


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

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

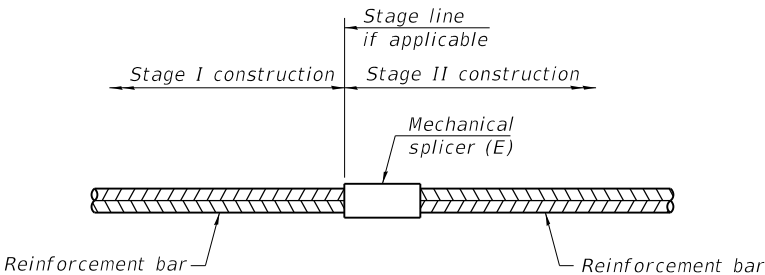
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	5	32	3'-6"
Abut. Hatch Block	6	16	4'-0"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

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

BSD-1

1-1-2020

MODEL Default
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184-001220

USER NAME = mjoost	DESIGNED - DRA	REVISED -
	CHECKED - CDK	REVISED -
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PLOT DATE = 12/1/2020	CHECKED - CDK	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 090-0019 & 090-0020**

SHEET 18 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	62
			CONTRACT NO. 68F54	
		ILLINOIS	FED. AID PROJECT	

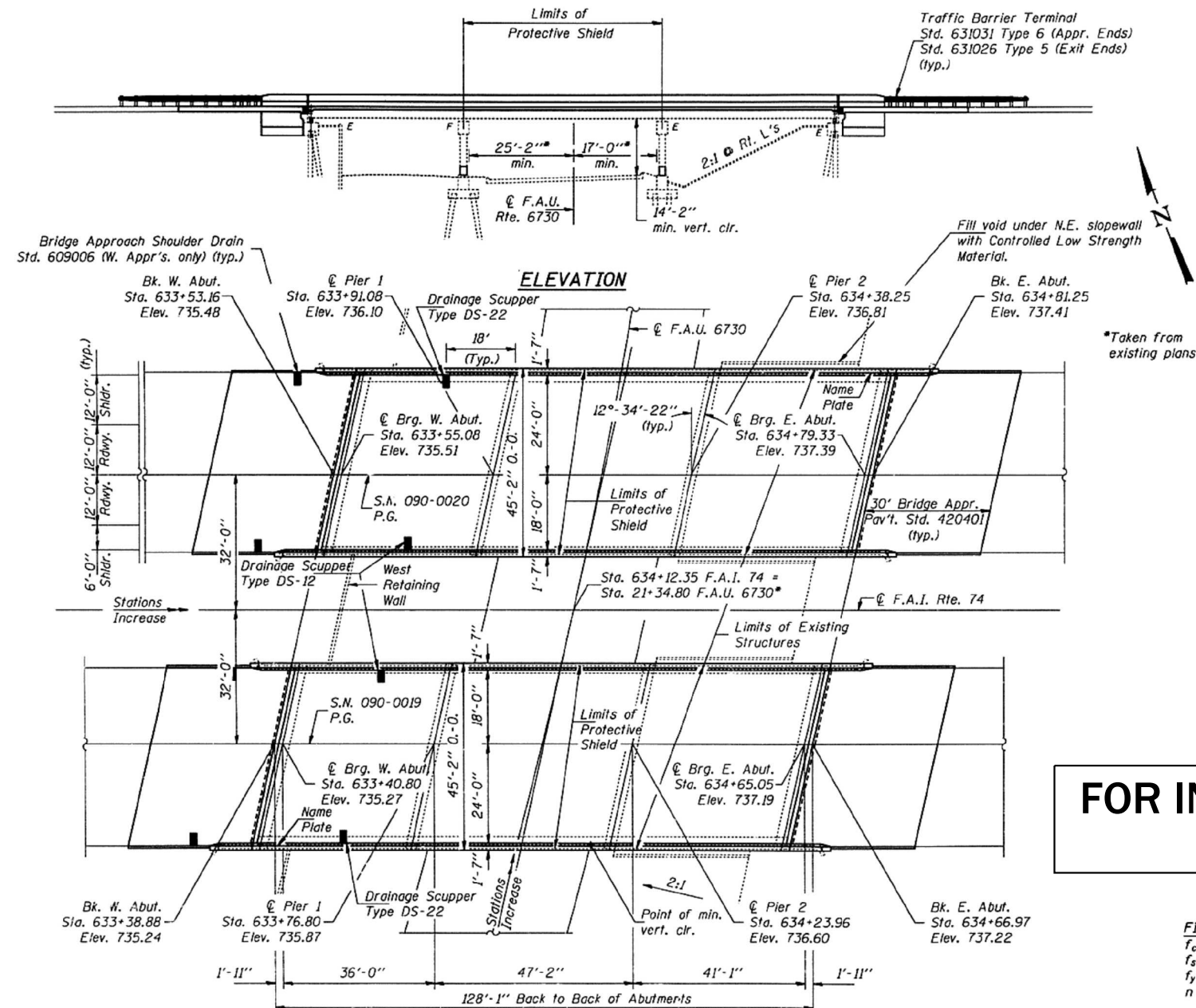
Bench Mark: Chiseled "□" top-center W. conc. retaining wall under S.N.'s 090-0019 (E.B.) & 090-0020 (W.B.). Elev. 730.73

Existing Structures: S.N. 090-0019 & 090-0020 Built 1960 as F.A.I. Rte. 5, Section 90-15HB-1 at Sta. 634+12.35. Existing structures are 3-span reinf. conc. deck on steel WF supported on spill-thru pile bent abutts. and pile supported multi-column piers. Each structure 43'-8" O.-O. deck, 128'-1" Bk.-Bk. abutts. Concrete deck to be removed and replaced. Traffic to be maintained utilizing cross overs.

No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	DATE	SHEET NO. 1
F.A.I. 74	90-15HB-1	TAZEWELL	101	26	29 SHEETS
F.A.I. PROJECT: LOADING HS20 & ALT. STR. NO. 090-0019					



STATION 634+12.35
REBUILT BY
STATE OF ILLINOIS
F.A.I. RT. 74 SECTION 90(15HB-1)-1
F.A. PROJECT:
LOADING HS20 & ALT.
STR. NO. 090-0019

STATION 634+12.35
REBUILT BY
STATE OF ILLINOIS
F.A.I. RT. 74 SECTION 90(15HB-1)-1
F.A. PROJECT:
LOADING HS20 & ALT.
STR. NO. 090-0020

NAME PLATE - E.B. LANES
See Std. 515001

NAME PLATE - W.B. LANES
See Std. 515001

Note:
Existing Name Plate is to be cleaned and
relocated next to the new Name Plate.
Included in cost of Name Plates.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Concrete Deck	Each	2		2
Concrete Removal	Cu. Yd.		38.5	38.5
Concrete Structures	Cu. Yd.		72.0	72.0
Concrete Superstructure	Cu. Yd.	354.5		354.5
Elastomeric Bearing Assembly Type I	Each	18		18
Elastomeric Bearing Assembly Type II	Each	18		18
Preformed Joint Seal 2 1/2"	Foot	88		88
Preformed Joint Seal 4"	Foot	88		88
Bridge Deck Grooving	Sq. Yd.	1117		1117
Furnishing and Erecting Structural Steel	Pound	21200		21200
Stud Shear Connectors	Each	6912		6912
Reinforcement Bars, Epoxy Coated	Pound	75910	10800	86710
Name Plates	Each	2		2
Drainage Scuppers	Each	4		4
Protective Coat	Sq. Yd.	1412		1412
Jack and Remove Existing Bearings	Each	36		36
Structure Excavation	Cu. Yd.		152.2	152.2
Formed Concrete Repair (Depth less than or equal to 5")	Sq. Ft.		81.1	81.1
Structural Steel Removal	Pound	6160		6160
Bridge Seat Sealer	Sq. Ft.		453	453
Protective Shield	Sq. Yd.	474		474
Controlled Low Strength Material	Cu. Yd.		1.0	1.0

FOR INFORMATION
ONLY

DESIGN STRESSES

FIELD UNITS (Existing Structure)

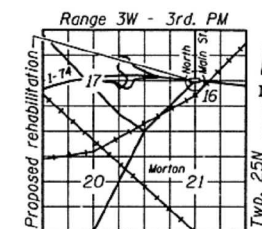
$f_c = 1,400$ psi
 $f_s = 20,000$ psi (reinforcement)
 $f_y = 33,000$ psi (structural steel)
 $n = 10$

FIELD UNITS (New Construction)

$f_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 36,000$ p.s.i. M270 Gr. 36 (Struct. Steel)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 4.3%
Site Coefficient (S) = 1.2



LOCATION SKETCH

GENERAL PLAN
I-74 OVER
NORTH MAIN STREET (F.A.U. RTE. 6730)
F.A.I. RTE. 74 - SEC. 90(15HB-1)-1
TAZEWELL COUNTY
STATION 634+12.35
STRUCTURE NO. 090-0019 (E.B.)
STRUCTURE NO. 090-0020 (W.B.)

DESIGNED *Chad Kesting*
CHECKED *Nicholas J. Dorell*
DRAWN *Michael R. Gillette*
CHECKED *CJF NJS*

January 26, 2000
EXAMINED *Thomas J. Dorell*
PASSED *R. J. E. Anderson*



EXPIRES 11-30-2000

LOADING HS20 & ALT.

Future Wearing Surface not allowed.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 and 1998 Interims
1995 Seismic Retrofitting Guidelines for
Highway Bridges FHWA/RD-94/052

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN AND ELEVATION
SN 090-0019 & 090-0020

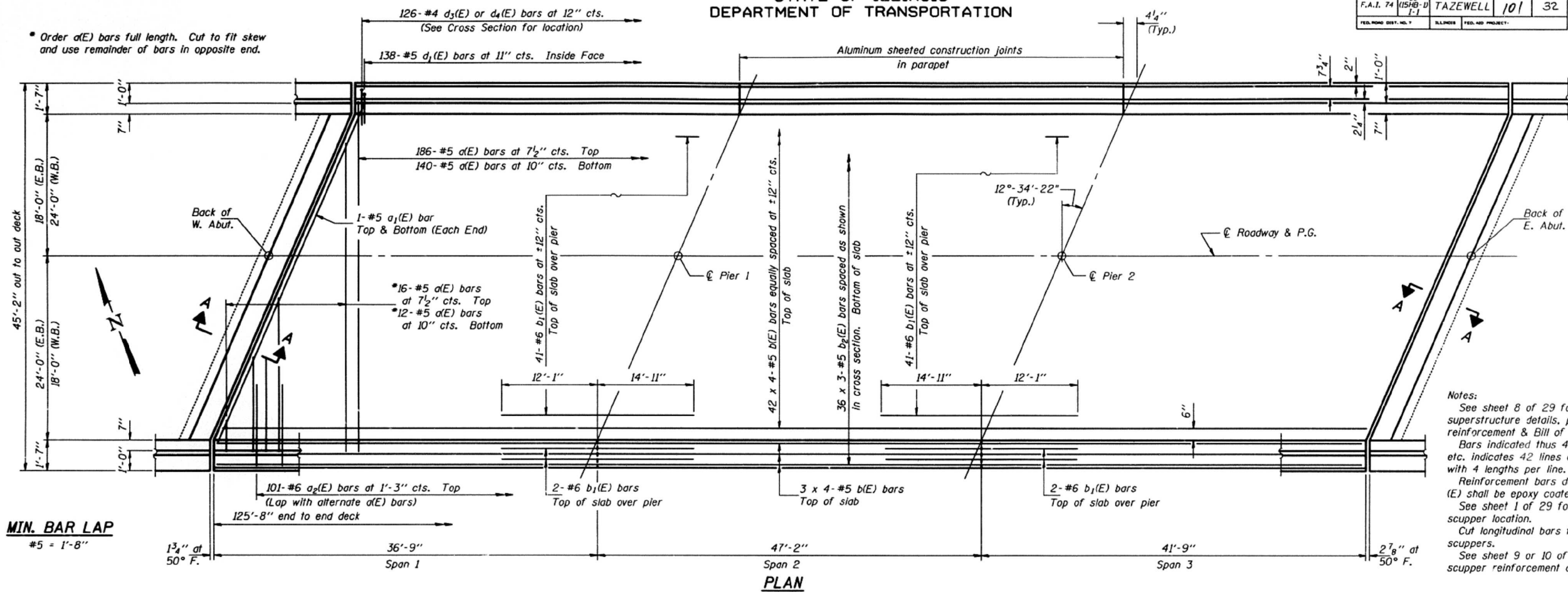
SHEET 19 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15HB(1-4);VB;B;BRR	TAZEWELL	192	63
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

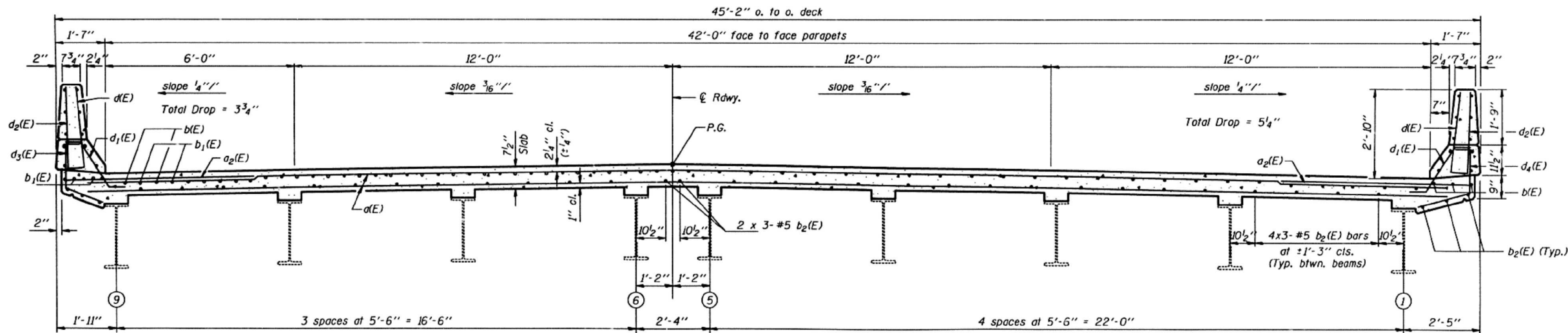
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PLOT SCALE = 0:2.0000 " = 1"	CHECKED - ALN	REVISED -
PLOT DATE = 12/1/2020	DRAWN - NP	REVISED -
	CHECKED - ALN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.I. 74	90-15[HB-D]	TAZEWELL	101	32
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		29 SHEETS



Notes:
See sheet 8 of 29 for Section A-A, superstructure details, parapet reinforcement & Bill of Material.
Bars indicated thus 42 x 4-#5 etc. indicates 42 lines of bars with 4 lengths per line.
Reinforcement bars designated (E) shall be epoxy coated.
See sheet 1 of 29 for scupper location.
Cut longitudinal bars to avoid scuppers.
See sheet 9 or 10 of 29 for scupper reinforcement details.



DESIGNED	Chad Fuesting	January 26, 2000
CHECKED	Nicholas J. Sovall	EXAMINED <i>Thomas J. Damagala</i>
DRAWN	Michael R. Gillette	PASSED <i>Robert E. Robinson</i>
CHECKED	C.J.F. N.J.S.	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SUPERSTRUCTURE
SN 090-0019 & 090-0020

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	64
CONTRACT NO. 68F54				



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LICENSE NO:
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USER NAME	= mjoost
PLOT SCALE	= 0:2.0000 " = 1' in.
PLOT DATE	= 12/1/2020

DESIGNED	- NP
CHECKED	- CDK
DRAWN	- NP
CHECKED	- CDK

REVISED	-
REVISED	-
REVISED	-
REVISED	-

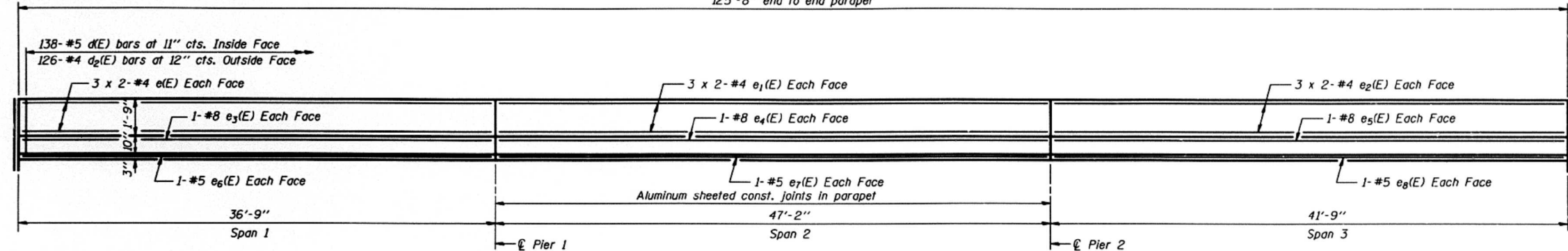
SHEET 20 OF 37 SHEETS

ILLINOIS FED. AID PROJECT

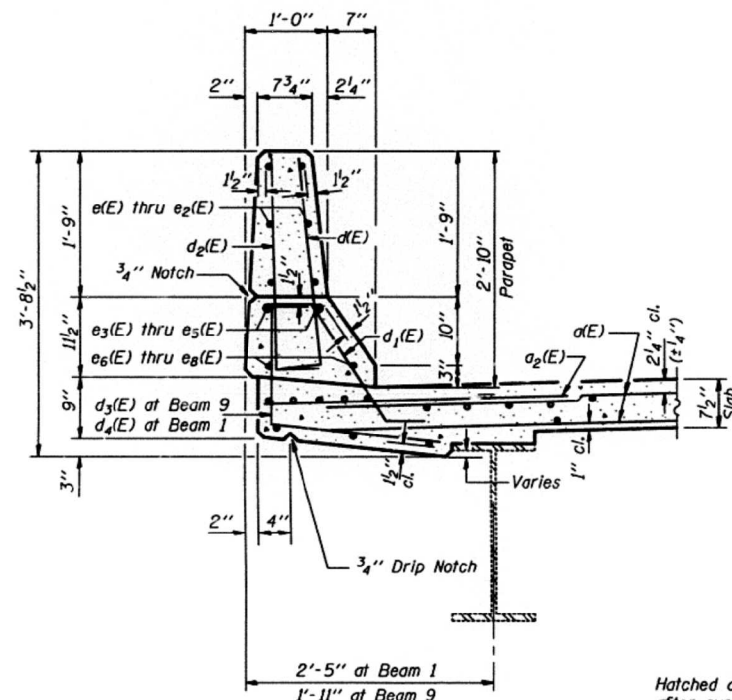
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

125'-8" end to end parapet

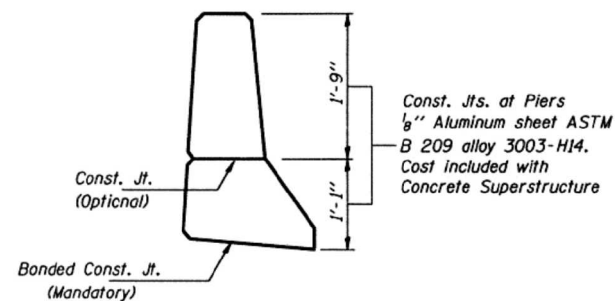
ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. OF
F.A.I. 74	90(15HB-1)I-1	TAZEWELL	10/1	33	29 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



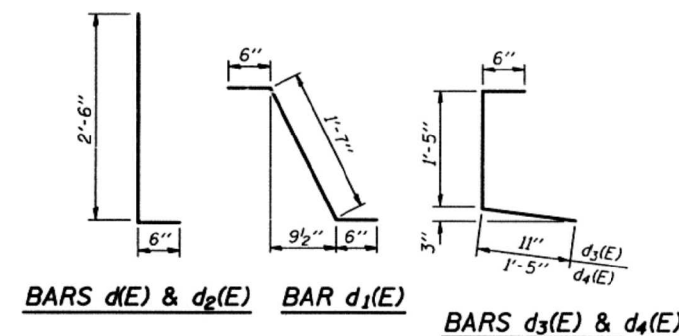
ELEVATION OF PARAPET
(Looking North)



SECTION THRU PARAPET



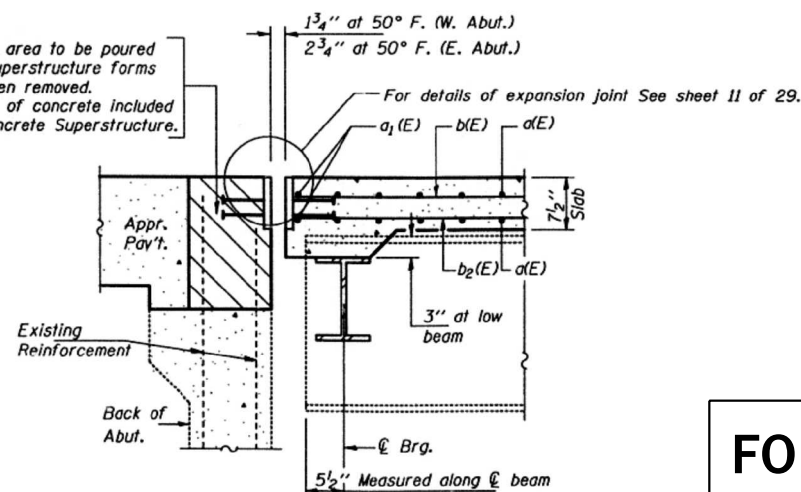
PARAPET JOINT DETAILS



BAR a4(E)

MIN. BAR LAPS
#4 bar = 1'-4"

Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.



SECTION A-A

FOR INFORMATION ONLY

**TWO SUPERSTRUCTURES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	708	#5	43'-3"	—
a1(E)	8	#5	43'-5"	—
a2(E)	404	#6	4'-0"	—
a3(E)	32	#5	2'-0"	—
a4(E)	4	#5	6'-5"	—
b(E)	384	#5	32'-8"	—
b1(E)	180	#6	27'-0"	—
b2(E)	216	#5	42'-11"	—
d(E)	552	#5	3'-0"	—
d1(E)	552	#5	2'-7"	—
d2(E)	504	#4	3'-0"	—
d3(E)	252	#4	2'-10"	—
d4(E)	252	#4	3'-4"	—
e(E)	43	#4	18'-11"	—
e1(E)	48	#4	24'-1"	—
e2(E)	48	#4	21'-5"	—
e3(E)	8	#8	36'-6"	—
e4(E)	8	#8	46'-11"	—
e5(E)	8	#8	41'-6"	—
e6(E)	8	#5	36'-6"	—
e7(E)	8	#5	46'-11"	—
e8(E)	8	#5	41'-6"	—
Reinforcement Bars, Epoxy Coated	Pound	75910		
Concrete Superstructure	Cu. Yds.	354.5		

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 42 x 4-#5 etc. indicates 42 line of bars with 4 lengths per line.

SUPERSTRUCTURE DETAILS
F.A.I. RTE. 74 - SEC. 90(15HB-1)I-1
TAZEWELL COUNTY
STATION 634+12.35

DESIGNED	Chad Fuesting	EXAMINED	January 26, 2000
CHECKED	Nicholas J. Sovell	PASSED	Thomas J. D'Amico
DRAWN	Michael R. Gillette		
CHECKED	C.J.F. N.J.S.		

S-2-D 4-30-99

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SUPERSTRUCTURE DETAILS
SN 090-0019 & 090-0020

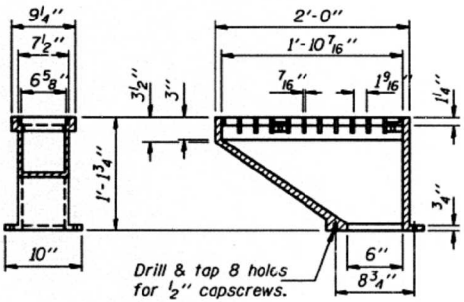
SHEET 21 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4):VB:B)BP,BJR,BRR	TAZEWELL	192	65
CONTRACT NO. 68F54				

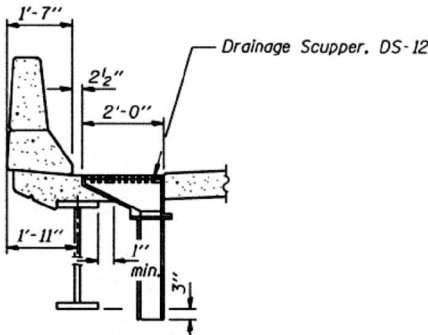
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

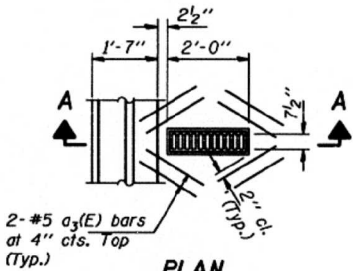
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	90 (15HB-DI-1)	TAZEWELL	101	34
SHEET NO. 9				
29 SHEETS				



DRAINAGE SCUPPER DS-12



SECTION A-A



PLAN

Note: Reinforcement bars designated (E) shall be epoxy coated.
Cut longitudinal reinforcement to clear drainage scuppers.
Bars billed with Bill of Material shown on sheet 8 of 29.

Notes:
All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
Bolts and nuts shall conform to the requirements of ASTM A 307.
All bolts and washers shall be galvanized according to AASHTO M 232.
As an alternate bolts and washers may be stainless steel conforming to the requirements of ASTM A 193M, Type 304.
Cost of the grate, frame, downspout, bolts and washers including complete installation of the scupper will be paid for at the unit bid price each for Drainage Scuppers.
Structural steel weldments of equal sections may be substituted for cast iron. Details shall be submitted to the Engineer for approval.

FOR INFORMATION ONLY

DRAINAGE SCUPPER DETAILS (DS-12)
NORTH PARAPET EAST BOUND LANES
SOUTH PARAPET WEST BOUND LANES
F.A.I. RTE. 74 - SEC. 90(15HB-DI-1)
TAZEWELL COUNTY
STATION 634+12.35

DESIGNED	Chad Fuesting
CHECKED	Nicholas J. Sovell
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

January 26, 2000
EXAMINED *Thomas J. D'Amico*
SUPERVISOR OF BRIDGE DESIGN
PASSED *Robert E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = mjoost
PLOT SCALE = 0:2.0000 " = 1 in.
PLOT DATE = 12/1/2020

DESIGNED	-	NP
CHECKED	-	ALN
DRAWN	-	NP
CHECKED	-	ALN

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE SCUPPER DETAILS
SN 090-0019 & 090-0020

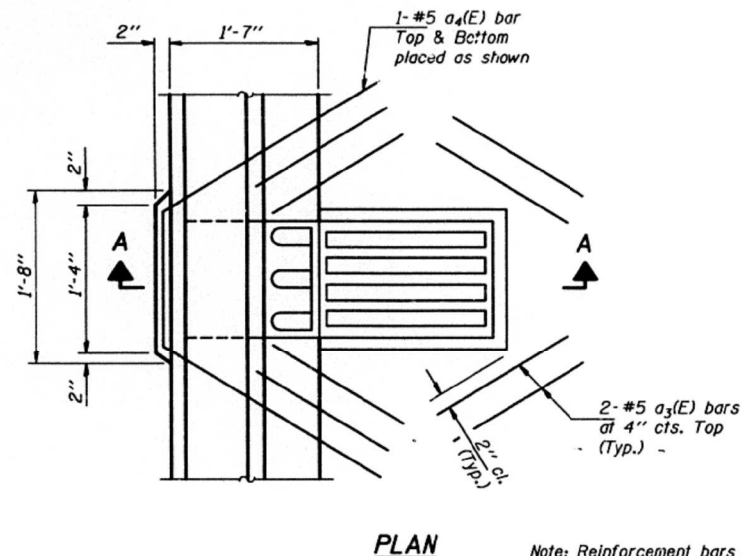
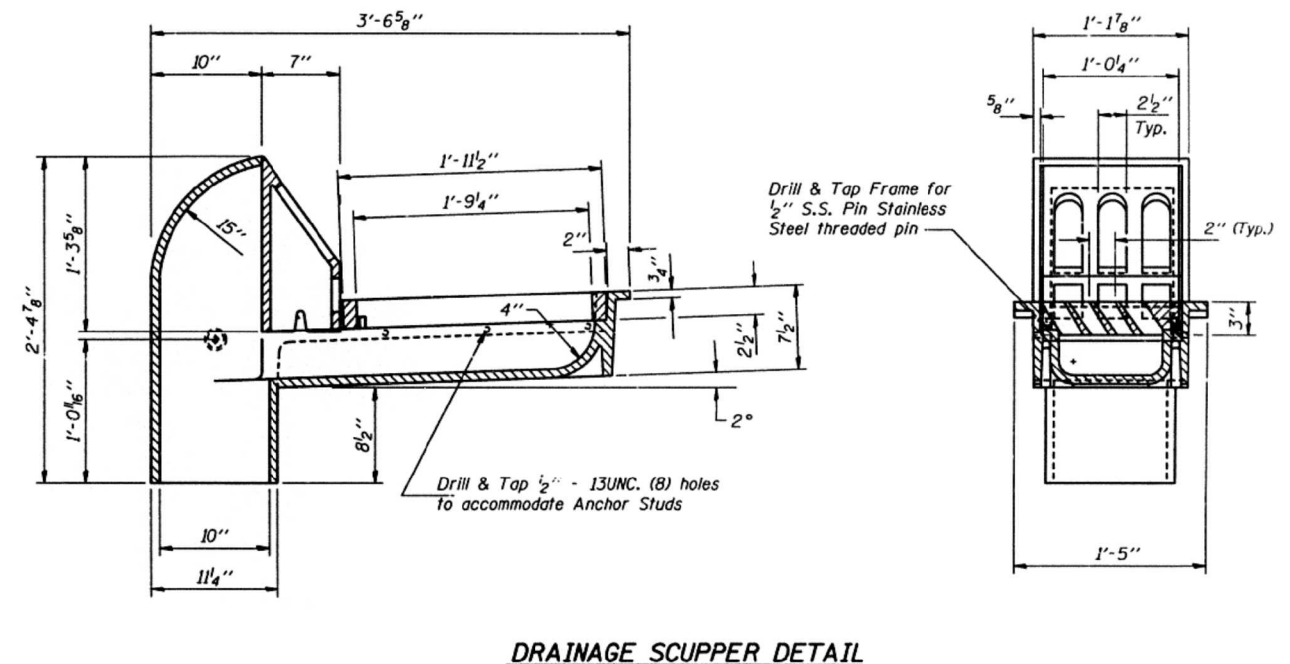
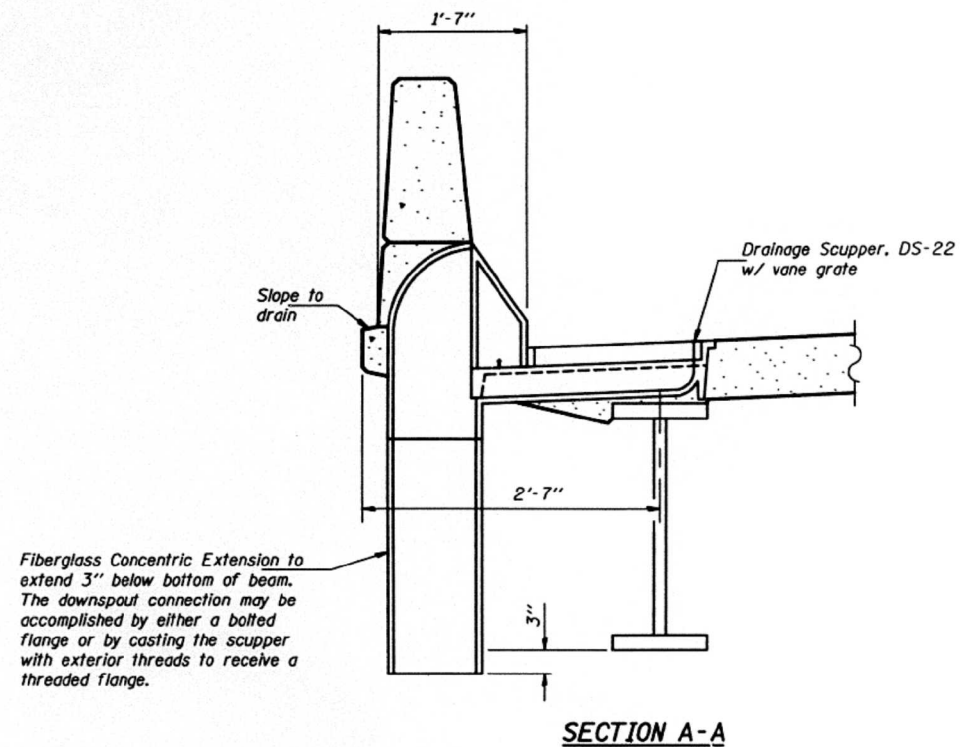
SHEET 22 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	66
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
F.A.I. 74	90	TAZEWELL	101	35
F.A.I. 74	90(15HB-DI-1)			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 10
29 SHEETS



PLAN

Note: Reinforcement bars designated (E) shall be epoxy coated.
Cut longitudinal reinforcement to clear drainage scuppers.
Bars billed with Bill of Material shown on sheet 8 of 29.

Notes:
All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
Bolts and nuts shall conform to the requirements of ASTM A 307.
All bolts and washers shall be galvanized according to AASHTO M 232.
As an alternate bolts and washers may be stainless steel conforming to the requirements of ASTM A 193M, Type 304.
Cost of the grate, frame, downspout, bolts and washers including complete installation of the scupper will be paid for at the unit bid price each for Drainage Scuppers.
Structural steel weldments of equal sections may be substituted for cast iron. Details shall be submitted to the Engineer for approval.

FOR INFORMATION ONLY

DRAINAGE SCUPPER DETAILS (DS-22)
SOUTH PARAPET EAST BOUND LANES
NORTH PARAPET WEST BOUND LANES
F.A.I. RTE. 74 - SEC. 90(15HB-DI-1)
TAZEWELL COUNTY
STATION 634+12.35

DESIGNED	Chad Fuesting
CHECKED	Nicholas J. Sevel
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

January 26, 2000
EXAMINED *Thomas J. Duggan*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = mjoost
PLOT SCALE = 0:2.0000 1" = 1 in.
PLOT DATE = 12/1/2020

DESIGNED	-	NP
CHECKED	-	ALN
DRAWN	-	NP
CHECKED	-	ALN

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

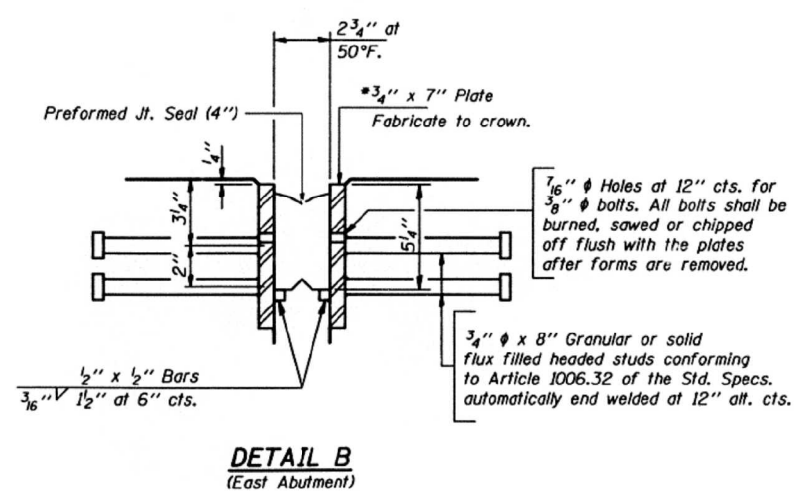
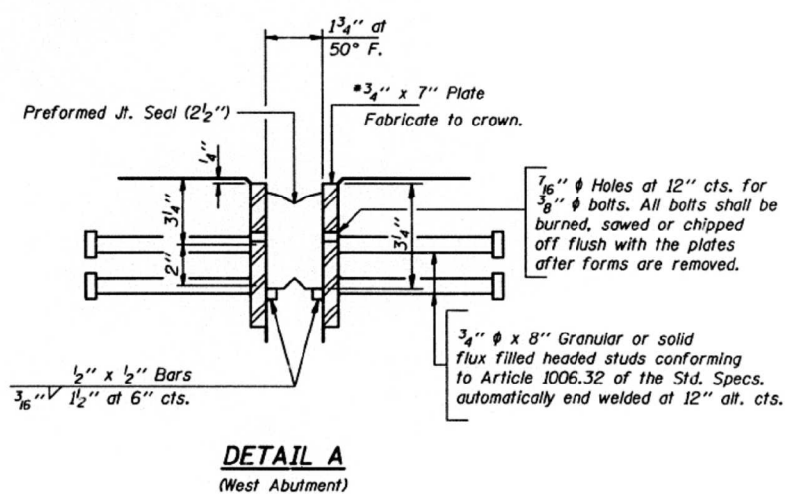
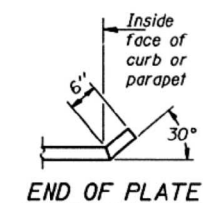
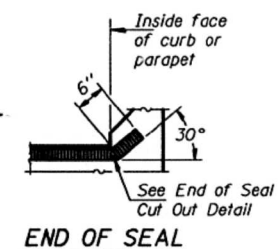
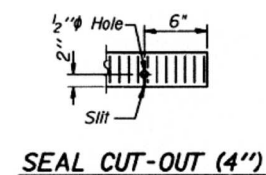
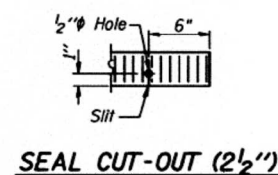
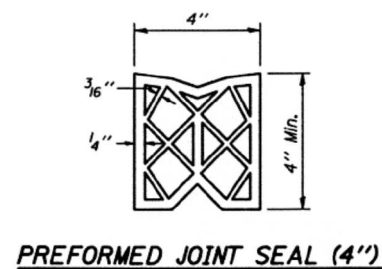
EXISTING DRAINAGE SCUPPER DETAILS
SN 090-0019 & 090-0020

SHEET 23 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	67
				CONTRACT NO. 68F54
				ILLINOIS FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	90 (15MB-D 1-1)	TAZEWELL	101	36
FED. ROAD DIST. NO. 1	ILLINOIS		FED. AID PROJECT-	

SHEET NO. 11
29 SHEETS



Note:
After fabrication all surfaces of the steel plates shall be given one shop coat of the paint specified for structural steel. No field painting required.

FOR INFORMATION ONLY

PREFORMED JOINT SEAL DETAILS
F.A.I. RTE. 74 - SEC. 90(15HB-1)I-1
TAZEWELL COUNTY
STATION 634+12.35

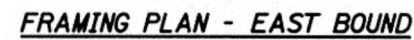
DESIGNED	Chad Fuesting
CHECKED	Nicholas J. Sovell
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

January 26, 2000

EXAMINED Thomas J. Donagalli
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Kirkman
ENGINEER OF BRIDGE AND SURVEYING

* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be $\frac{3}{16}$ ". Seal space with Silicone Sealant suitable for Structural Steel.

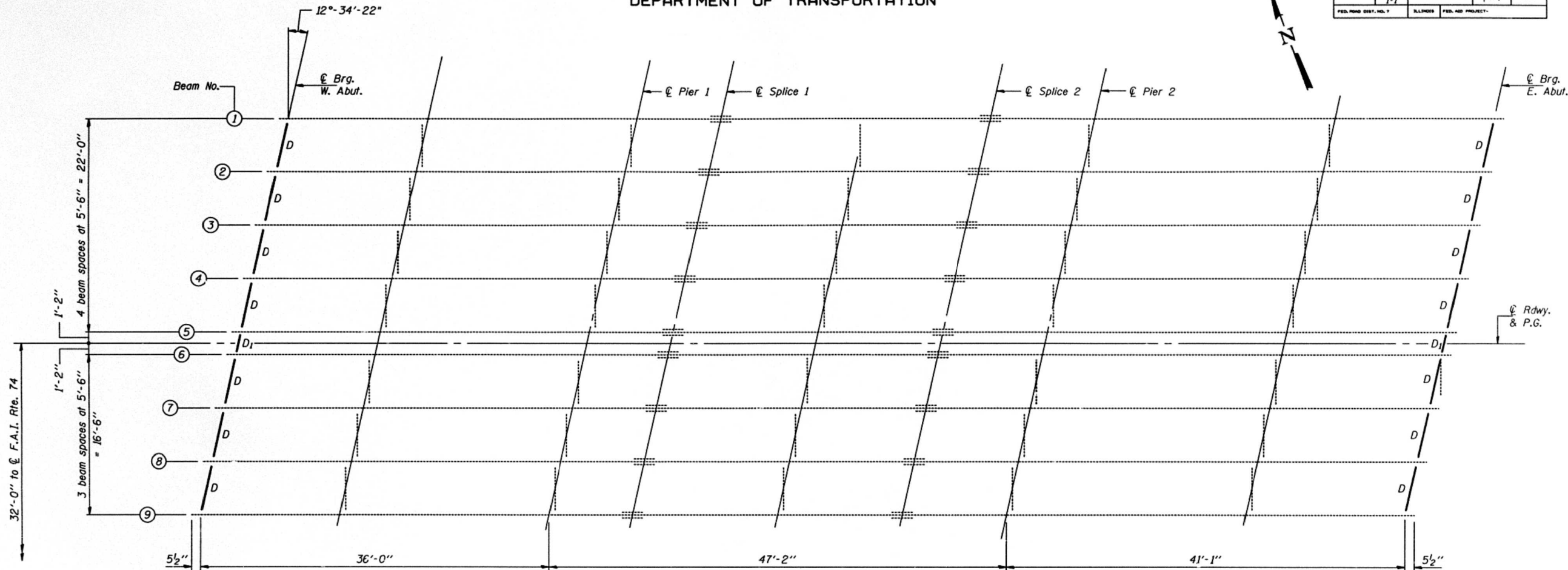


Notes:
See sheet 13 of 29 for Section A-A
and View B-B.
Existing end diaphragms, angles, bolts
and rivets to be removed as indicated.
Cost included with Structural Steel Removal.

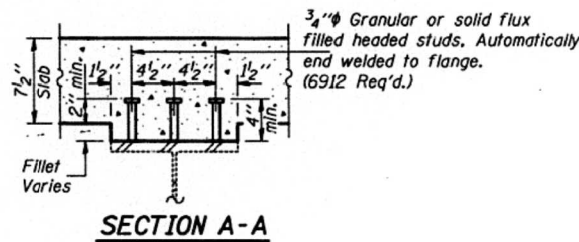
STRUCTURAL STEEL DETAILS
F.A.I. RTE. 74 - SEC. 90(15HB-1)I-1
TAZEWELL COUNTY
STATION 634+12.35

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

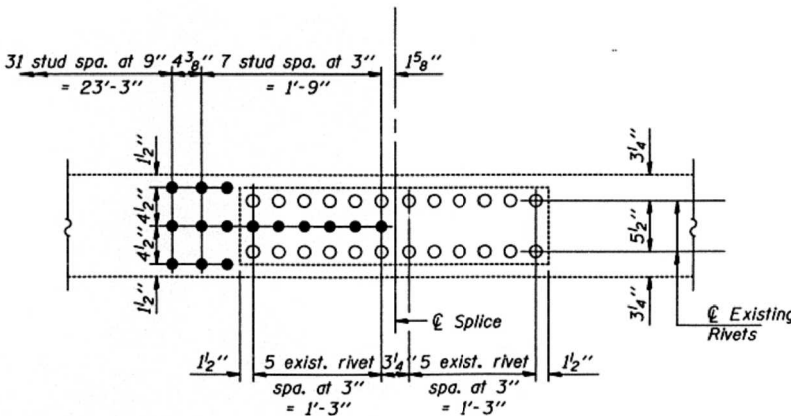
ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
F.A.I. 74	90(15HB-D)I-1	TAZEWELL	101	38
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		29 SHEETS



FRAMING PLAN - WEST BOUND



SECTION A-A



VIEW B-B

Note:
Splice 2 shown. Splice 1 similar
by 180° rotation.

FOR INFORMATION ONLY

STRUCTURAL STEEL DETAILS
F.A.I. RTE. 74 - SEC. 90(15HB-D)I-1
TAZEWELL COUNTY
STATION 634+12.35

DESIGNED	Chad Fuesting
CHECKED	Nicholas J. Sovell
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

EXAMINED	January 26, 2000
PASSED	Thomas J. D'Amico
	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL STEEL DETAILS
SN 090-0019 & 090-0020

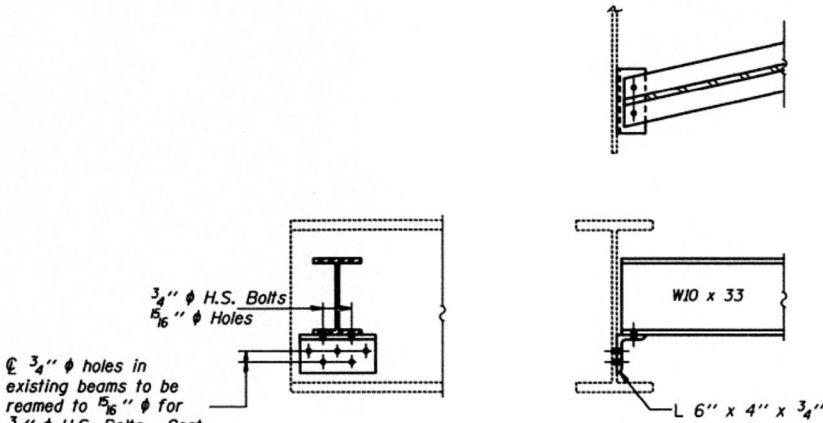
SHEET 26 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	70
CONTRACT NO. 68F54				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
F.A.I. 74	90(15HB-1) 1-1	TAZEWELL	101	39
SHEET NO. 14 29 SHEETS				



3/4" ϕ H.S. Bolts
5/16" ϕ Holes
3/4" ϕ holes in
existing beams to be
reamed to 5/16" ϕ for
3/4" ϕ H.S. Bolts. Cost
included with Furnishing
& Erecting Structural Steel.

DIAPHRAGMS D & D1

D - 28 Required
D1 - 4 Required

Notes: Two hardened washers shall be
required over all oversized holes for
diaphragms.
New 3/4" ϕ H.S. Bolts in 5/16" ϕ
holes shall be used for all diaphragm
connections.
Cost of field drilling or reaming of
holes is included with Furnishing and
Erecting Structural Steel.

INTERIOR BEAM MOMENT TABLE					
	0.4 Sp. 1	Pier 1	0.5 Span 2	Pier 2	0.6 Span 3
Is (in ⁴)	2981	2981	2981	2981	2981
Ic (n) (in ⁴)	8297	—	8297	—	8297
Ic (3n) (in ⁴)	6049	—	6049	—	6049
Ss (in ³)	248	248	248	248	248
Sc (n) (in ³)	367	—	367	—	367
Sc (3n) (in ³)	332	—	332	—	332
Z (in ³)	—	279	—	279	—
Q (k/ft.)	0.663	0.754	0.663	0.754	0.663
MR (k)	58	125	61	147	81
sR (k/ft.)	0.091	—	0.091	—	0.091
MsR (k)	9	—	12	—	13
ML (k)	162	97	199	103	200
M (Imp) (k)	49	29	60	31	61
S ₂ (M _L +M[Imp]) (k)	352	210	432	223	435
Ma (k)	545	436	656	481	687
Mu (k)	1410	768	1410	768	1410
fsR non-comp (k.s.i.)	2.8	6.0	2.9	7.1	3.9
fsR (comp) (k.s.i.)	0.3	—	0.4	—	0.5
fsS ₂ (L+Imp) (k.s.i.)	11.5	10.2	14.1	10.8	14.2
fs (Overload) (k.s.i.)	14.6	16.2	17.4	17.9	18.6
fs (Total) (k.s.i.)	—	—	—	—	—
VR (k)	32.7	—	36.3	—	34.2

INTERIOR BEAM REACTION TABLE				
	W. Abut.	Pier 1	Pier 2	E. Abut.
RP (k)	10.1	34.4	37.3	11.9
RL (k)	25.6	32.5	32.7	26.8
Imp. (k)	7.7	9.8	9.8	8.0
R (Total) (k)	43.4	76.7	79.8	46.7

Is and Ss are the moment of inertia and section
modulus of the steel section used in computing fs
(Total & Overload).
Ic(n) and Sc(n) are the moment of inertia and section
modulus of the composite section used in computing
stresses due to Live Load.
Ic(3n) and Sc(3n) are the moment of inertia and section
modulus of the composite section used in computing
stresses due to superimposed dead loads.
VR is the maximum Live Load + Impact shear
range in span.
Z is the plastic section modulus used to determine
the fully plastic moments in the non-composite areas.
Ma (Applied Moment)=1.3[MR + MsR + S₂(ML + M[Imp])].
The Plastic Moment capacity (Mu) is computed according to
AASHTO 10.48.1 and 10.50.1.1.
fs (Overload) is the sum of the stresses due
to MR + MsR + S₂(ML + M[Imp]).
fs (Total) (Non-compact section) is the sum of
the stresses due to 1.3[MR + MsR + S₂(ML + M[Imp])].

FOR INFORMATION ONLY

DESIGNED	Chad Fuesting	January 26, 2000
CHECKED	Nicholas J. Sorrell	EXAMINED <i>Thomas J. Damschke</i>
DRAWN	Michael R. Gillette	PASSED <i>Robert E. Johnson</i>
CHECKED	C.J.F. N.J.S.	ENGINEER OF BRIDGES AND STRUCTURES

STRUCTURAL STEEL DETAILS
F.A.I. RTE. 74 - SEC. 90(15HB-1)I-1
TAZEWELL COUNTY
STATION 634+12.35

MODEL Dwg-11
FILE NAME: 12/20/191103180W06 1-74 Bridge PSE-14 CADD - DWG-14.4 Struct09000019-002019000019-002048F54-027 Existing Structural Steel Details.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = mjoost
PLOT SCALE = 0:2.0000 " = 1 in.
PLOT DATE = 12/1/2020

DESIGNED	-	NP	REVISED	-
CHECKED	-	ALN	REVISED	-
DRAWN	-	NP	REVISED	-
CHECKED	-	ALN	REVISED	-

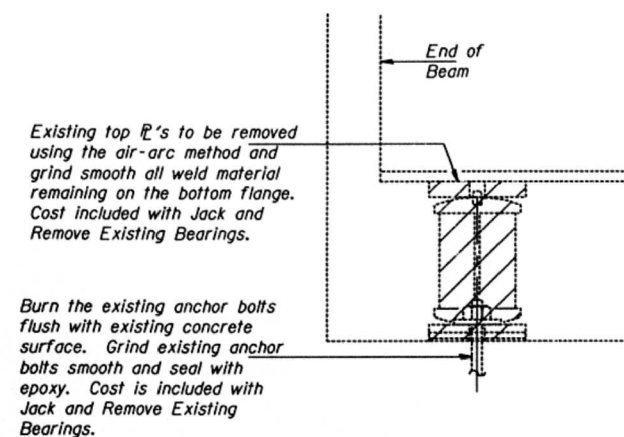
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL STEEL DETAILS
SN 090-0019 & 090-0020

SHEET 27 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB-1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	71
CONTRACT NO. 68F54				

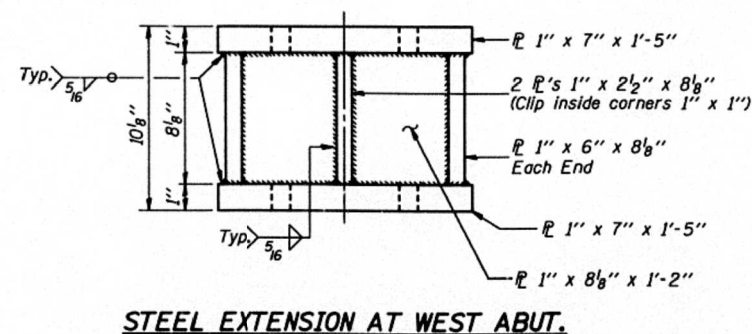
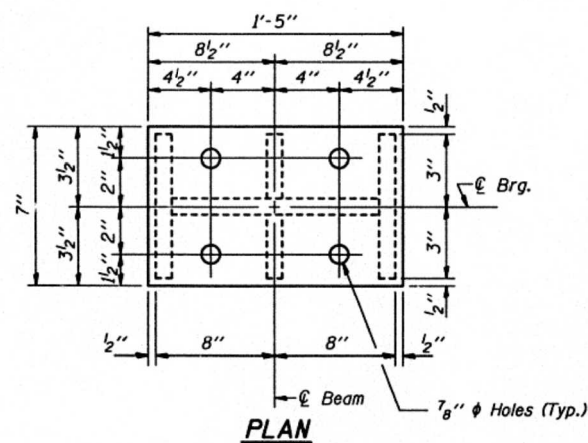
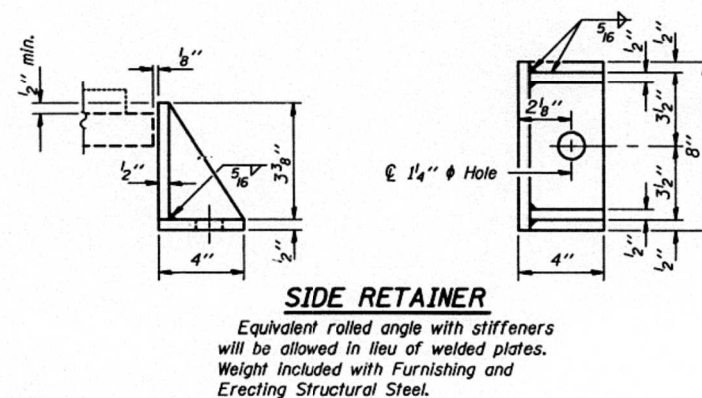
ILLINOIS FED. AID PROJECT



1. *The Contractor shall submit for approval by the Engineer, plans for lifting existing beams and installing new bearings prior to commencing any related work. This work shall be done after existing concrete deck is removed and prior to pouring of the new concrete deck. The maximum dead load reaction per beam (weight of steel only) is 1.6^k. Min. jack capacity shall be 3.2^k.*
2. *Prior to ordering any material, the Contractor shall verify steel extension and shim plate thicknesses required at each bearing.*
3. *The bottom flange of the existing beam shall be cleaned as specified for Structural Steel.*
4. *The new bearings and steel extensions shall be in place and the jacks shall be lowered before the new concrete deck is poured.*



BEAM	EB	WB
4	—	1"
5	—	1"
6	1/2"	1"
7	—	3/4"



FOR INFORMATION ONLY

<i>Item</i>	<i>Unit</i>	<i>Total</i>
<i>Jack and Remove Existing Bearings</i>	<i>Each</i>	<i>18</i>
<i>Elastomeric Bearing Assembly, Type I</i>	<i>Each</i>	<i>18</i>

Notes:
For anchor bolt installation details see sheet 18 of 29.
Shim plates shall not be placed under Bearing Assembly.
New steel extensions, side retainers, connection bolts, fill plates, shim plates and anchor bolts are included with Furnishing and Erecting Structural Steel.

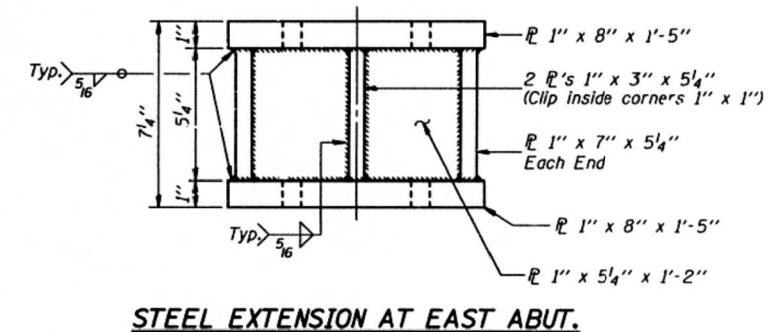
BEARING DETAILS AT WEST ABUTMENT
F.A.I. RTE. 74 - SEC. 90(15HB-1)I-1
TAZEWELL COUNTY
STATION 634+12.35



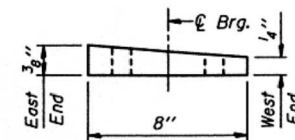
BELOW 50°F.
(Move bott. brg. away from fixed brg.)

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

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



BEAM	EB	WB
2	1 $\frac{1}{8}$ "	—
3	1"	5 $\frac{1}{8}$ "
4	1 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "
5	1 $\frac{3}{4}$ "	2 $\frac{1}{4}$ "
6	1 $\frac{1}{4}$ "	2 $\frac{1}{4}$ "
7	1 $\frac{1}{8}$ "	1 $\frac{1}{2}$ "



<i>Item</i>	<i>Unit</i>	<i>Total</i>
<i>Jack and Remove Existing Bearings</i>	<i>Each</i>	<i>16</i>
<i>Elastomeric Bearing Assembly, Type II</i>	<i>Each</i>	<i>16</i>

FOR INFORMATION ONLY

BEARING DETAILS AT EAST ABUTMENT
F.A.I. RTE. 74 - SEC. 90(15HB-1)I-1
TAZEWELL COUNTY
STATION 634+12.35



(At Beam 9 EB & WB)



BELOW 50°F.

(Move bott. brg. away from fixed brg.)

ABOVE 50°F.

(Move bott. brg. toward fixed brg.)

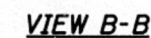
$D = \frac{1}{8}''$ per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.



<i>Item</i>	<i>Unit</i>	<i>Total</i>
<i>Jack and Remove Existing Bearings</i>	<i>Each</i>	<i>2</i>
<i>Elastomeric Bearing Assembly, Type II</i>	<i>Each</i>	<i>2</i>

FOR INFORMATION ONLY

STATION 634+12.35



January 26, 2000

EXAMINED Thomas J. Donagallo
ENGINEER OF BUILDING DESIGN

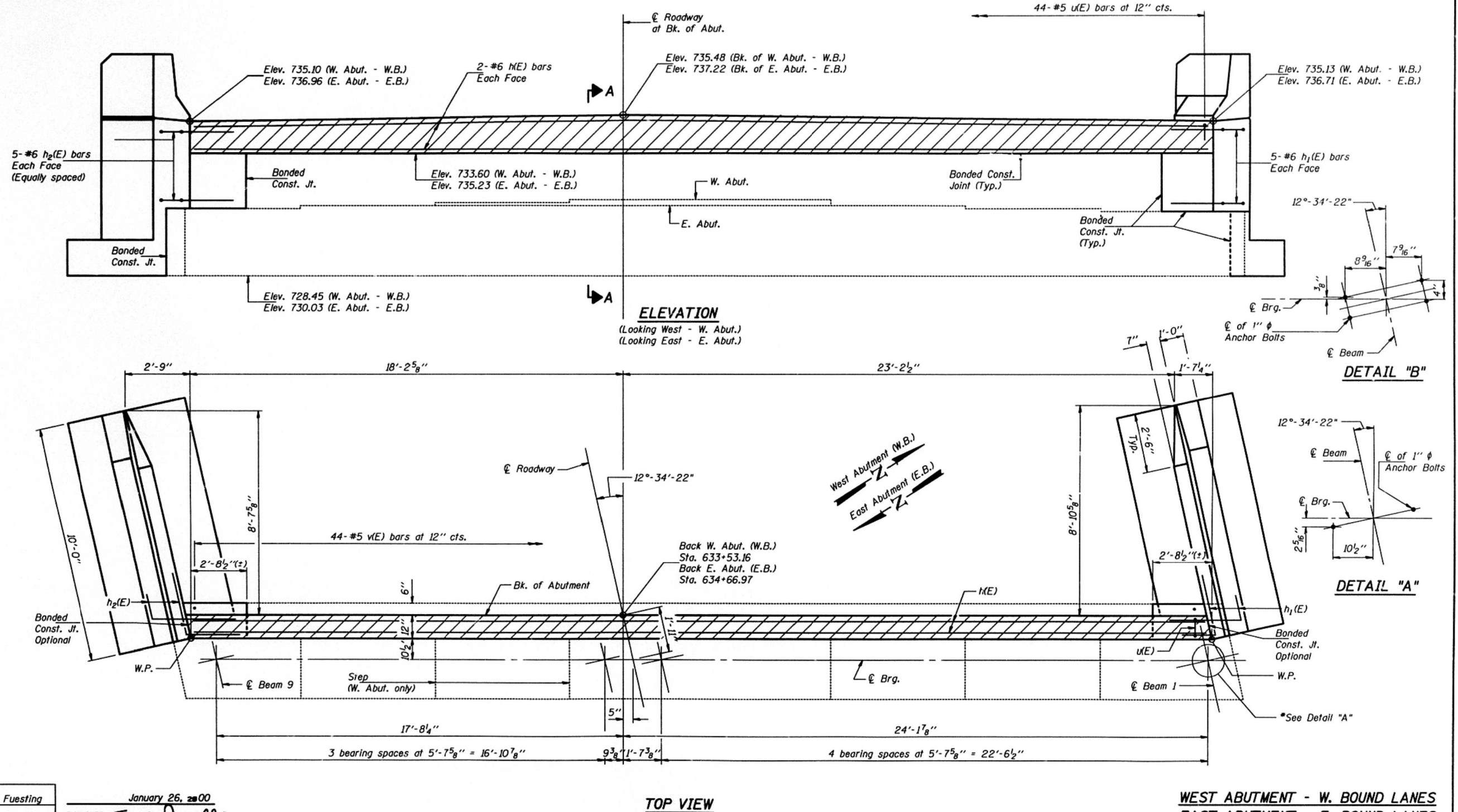
PASSED Robert E. Anderson
MEMBER OF MECHANICAL STRUCTURES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4):VB;B BP,BJR,BRR	TAZEWELL	192	74
		CONTRACT NO. 68F54		
		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
90	101	TAZEWELL	45	20
F.A.I. 74	(15HB-D)			29 SHEETS
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

Notes: Hatched area to be poured after superstructure forms have been removed. Quantity of concrete for hatched area is included with Concrete Superstructure on sheet 8 of 29.
Reinforcement bars designated (E) shall be epoxy coated.
For anchor bolt installation details see sheet 18 of 29.
For concrete removal details see sheet 19 of 29.
Work this sheet with sheets 21 & 22 of 29.



DESIGNED	Chad Fuesting
CHECKED	Nicholas J. Sovell
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

January 26, 2000
EXAMINED *Thomas J. Duggan*
PASSED *Robert E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

FOR INFORMATION ONLY

TOP VIEW

* See Detail "B" for Beam 9, East Abutment.
Omit exterior anchor bolt for Beam 9, West Abutment.

WEST ABUTMENT - W. BOUND LANES
EAST ABUTMENT - E. BOUND LANES
F.A.I. RTE. 74 - SEC. 90(15HB-D)I-1
TAZEWELL COUNTY
STATION 634+12.35

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING ABUTMENT
SN 090-0019 & 090-0020

SHEET 31 OF 37 SHEETS

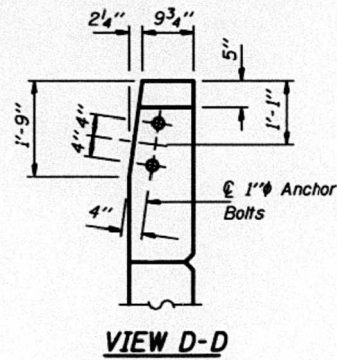
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4):VB:B)BP,BJR,BRR	TAZEWELL	192	75
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

USER NAME	= mjoost	DESIGNED	- NP	REVISED	-
		CHECKED	- ALN	REVISED	-
		DRAWN	- NP	REVISED	-
		CHECKED	- ALN	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

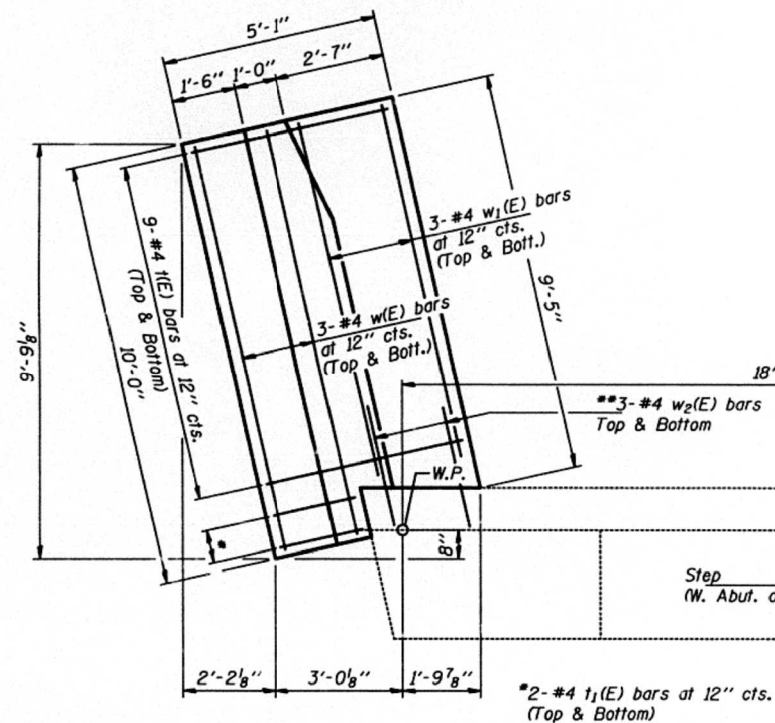
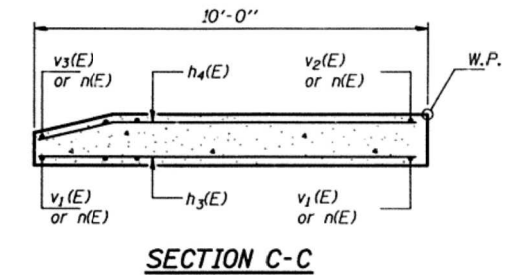
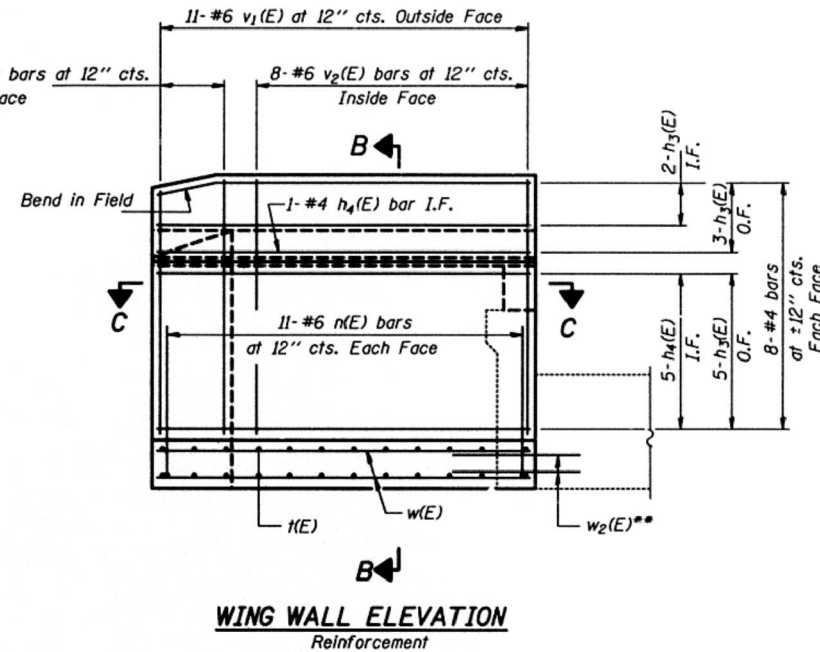
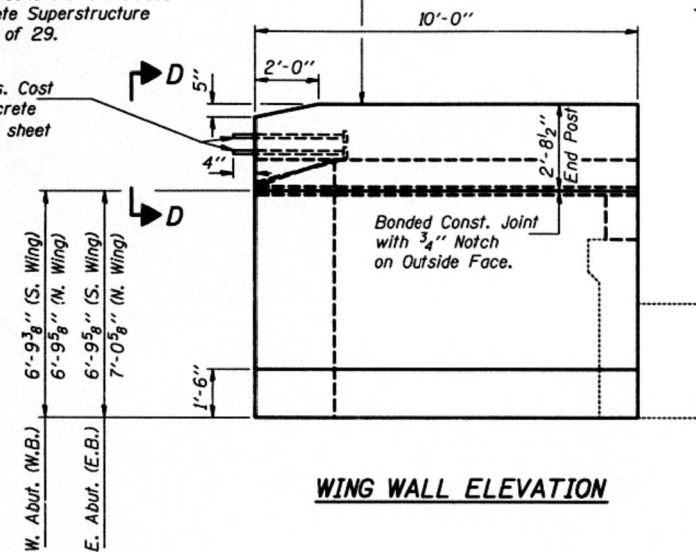
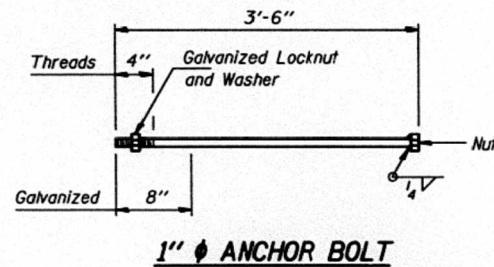
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
F.A.I. 74	90 (15HB-1)	TAZEWELL	101	46
FED. AID DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 21
29 SHEETS



End Post shall be poured after bridge parapet is in place. Form top surface to match parapet grade. Quantity of concrete is included with Concrete Superstructure on sheet 8 of 29.

1"-Ø Anchor Bolts. Cost included with Concrete Superstructure on sheet 8 of 29.



** Drill and grout bars in 3/4" Ø x 9" min. drilled holes according to Art. 584 of the Standard Specifications.

FOR INFORMATION ONLY

WEST ABUTMENT - W. BOUND LANES
EAST ABUTMENT - E. BOUND LANES
F.A.I. RTE. 74 - SEC. 90(15HB-1)I-1
TAZEWELL COUNTY
STATION 634+12.35

DESIGNED	Chad Fuesting
CHECKED	Nicholas J. Sovell
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

January 26, 2000
EXAMINED
PASSED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING ABUTMENT
SN 090-0019 & 090-0020

SHEET 32 OF 37 SHEETS

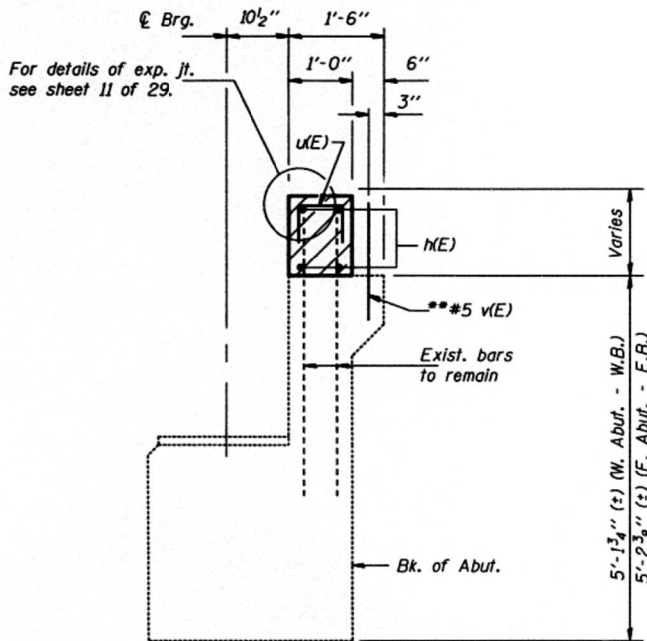
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4):VB;B]BP,BJR,BRR	TAZEWELL	192	76
CONTRACT NO. 68F54				

ILLINOIS FED. AID PROJECT

USER NAME	= mjoost	DESIGNED	- NP	REVISED	-
PLOT SCALE	= 0.2:0.000 " = 1' / in.	CHECKED	- CDK	REVISED	-
PLOT DATE	= 12/1/2020	DRAWN	- NP	REVISED	-
		CHECKED	- CDK	REVISED	-

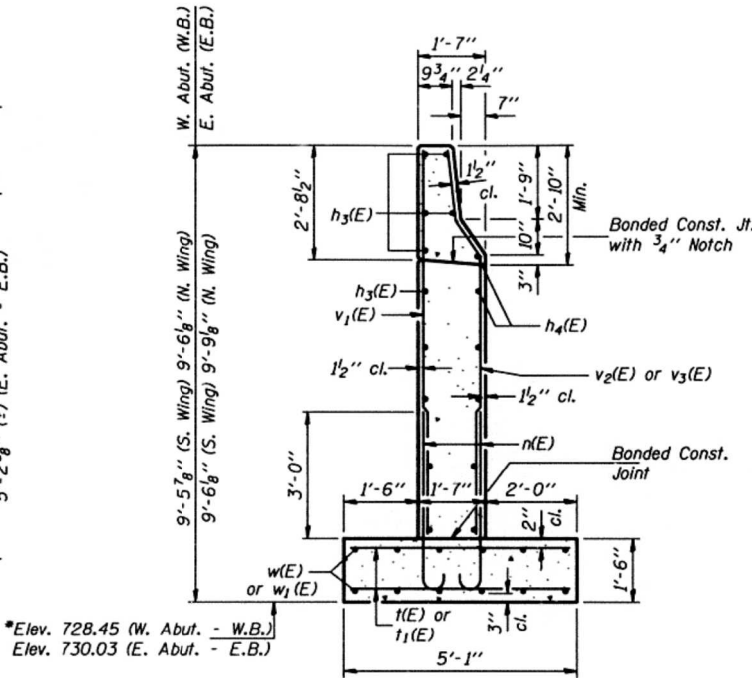
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.I. 74	90	TAZEWELL	101	47
F.A.I. 74	15HB-D			29 SHEETS
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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

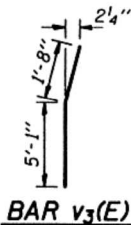
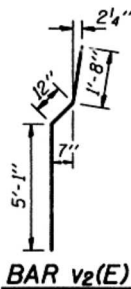
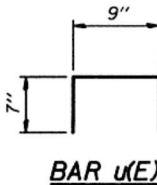
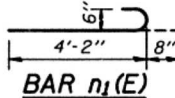
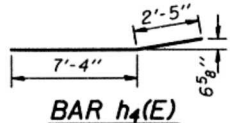
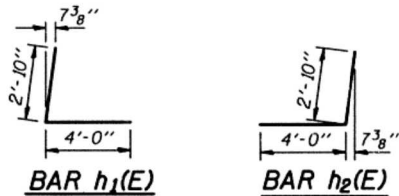
** Drill & grout bars in 7/8" ϕ x 6" drilled holes according to Article 584 of the Standard Specifications.



*Elev. 728.45 (W. Abut. - W.B.)
Elev. 730.03 (E. Abut. - E.B.)

Match existing bottom of footing elevation.

SECTION B-B



**TWO ABUTMENTS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	8	#6	42'-9"	
h1(E)	20	#6	6'-10"	
h2(E)	20	#6	6'-10"	
h3(E)	40	#4	9'-9"	
h4(E)	24	#4	9'-9"	
n(E)	88	#6	4'-10"	
t(E)	72	#4	4'-10"	
t1(E)	16	#4	2'-0"	
u(E)	88	#5	1'-11"	
v(E)	88	#5	1'-10"	
v1(E)	44	#6	7'-8"	
v2(E)	32	#6	7'-9"	
v3(E)	12	#6	6'-9"	
w(E)	24	#4	9'-9"	
w1(E)	24	#4	8'-3"	
w2(E)	24	#4	2'-2"	
Structure Excavation		Cu. Yd.	76.1	
Concrete Structures		Cu. Yd.	24.1	
Reinforcement Bars, Epoxy Coated		Pound	3900	

Reinforcement bars designated (E) shall be epoxy coated.
Maximum footing pressure under wingwall = 1.43 KSF.
All edges shall have 3/4" chamfer except as noted.

FOR INFORMATION ONLY

**WEST ABUTMENT - W. BOUND LANES
EAST ABUTMENT - E. BOUND LANES
F.A.I. RTE. 74 - SEC. 90(15HB-D)-1
TAZEWELL COUNTY
STATION 634+12.35**

DESIGNED	Chad Fuesting	January 26, 2000
CHECKED	Nicholas J. Savell	EXAMINED <i>Thomas J. Savell</i>
DRAWN	Michael R. Gillette	PASSED <i>Robert E. Anderson</i>
CHECKED	C.J.F. N.J.S.	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING ABUTMENT
SN 090-0019 & 090-0020

SHEET 33 OF 37 SHEETS

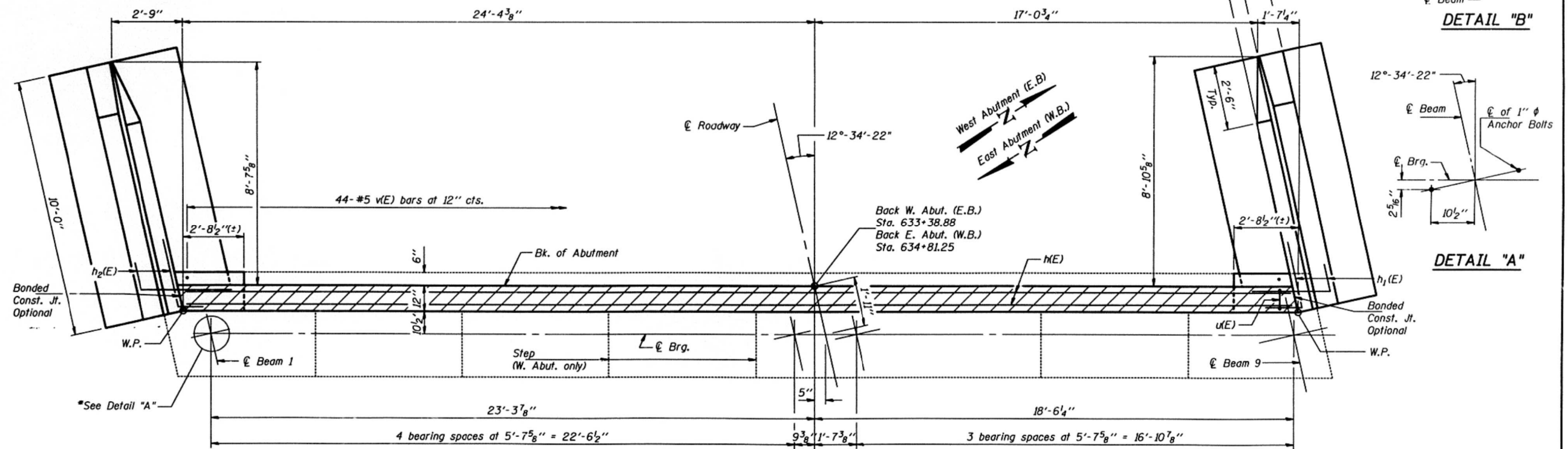
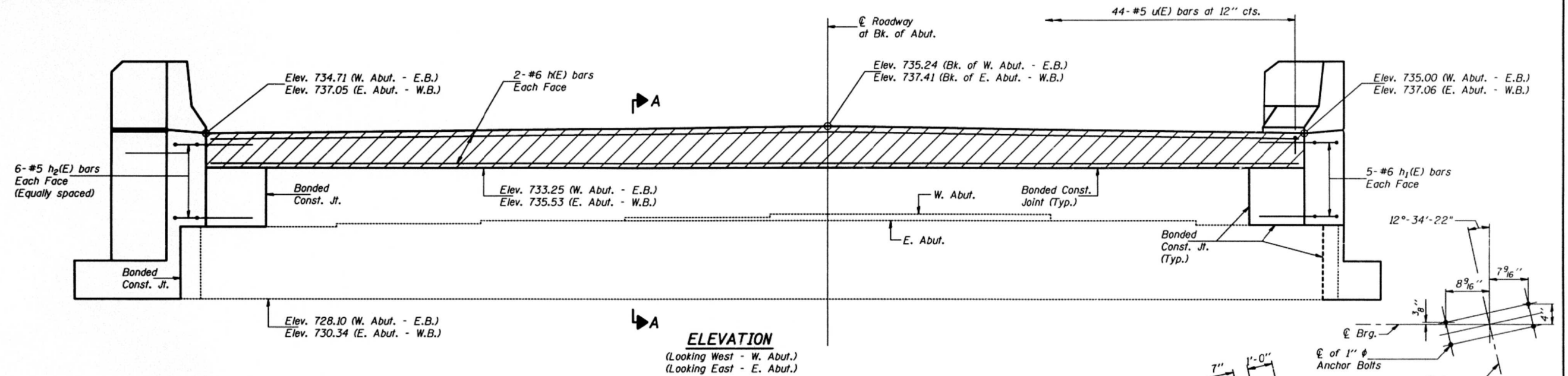
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4):VB:B)BP,BJR,BRR	TAZEWELL	192	77
				CONTRACT NO. 68F54
		ILLINOIS	FED. AID PROJECT	

USER NAME	= mjoost	DESIGNED	- NP	REVISED	-
PLOT SCALE	= 0:2.0000 " = 1" / in.	CHECKED	- ALN	REVISED	-
PLOT DATE	= 12/1/2020	DRAWN	- NP	REVISED	-
		CHECKED	- ALN	REVISED	-

Notes: Hatched area to be poured after superstructure forms have been removed. Quantity of concrete for hatched area is included with Concrete Superstructure on sheet 8 of 29.
Reinforcement bars designated (E) shall be epoxy coated.
For anchor bolt installation details see sheet 18 of 29.
For concrete removal details see sheet 19 of 29.
Work this sheet with sheets 24 & 25 of 29.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.I. 74	90 (15HB-1) 1-1	TAZEWELL	101	48
SHEET NO. 23				
29 SHEETS				



DESIGNED	Chad Fuesting
CHECKED	Nicholas J. Sovell
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

January 26, 2000
EXAMINED
PASSED

* See Detail "B" for Beam 9,
East Abutment.
Omit exterior anchor bolt for
Beam 9, West Abutment.

TOP VIEW

FOR INFORMATION ONLY

WEST ABUTMENT - E. BOUND LANES
EAST ABUTMENT - W. BOUND LANES
F.A.I. RTE. 74 - SEC. 90(15HB-1)I-1
TAZEWELL COUNTY
STATION 634+12.35

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING ABUTMENT
SN 090-0019 & 090-0020

SHEET 34 OF 37 SHEETS

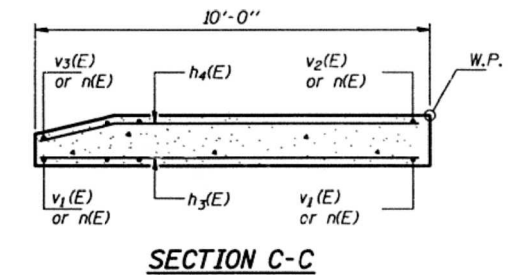
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CONTRACT NO. 68F54				

ILLINOIS FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.T. 74	90 (15HB-1) 1-1	TAZEWELL	101	49
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 24

29 SHEETS



WEST ABUTMENT - E. BOUND LANES
EAST ABUTMENT - W. BOUND LANES
F.A.I. RTE. 74 - SEC. 90(15HB-DI-1
TAZEWELL COUNTY
STATION 634+12.35

DESIGNED	Chad Fuesting
CHECKED	Nicholas J. Sovell
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

January 26, 2000

EXAMINED Thomas J. Donagale
ENGINEER OF BRIDGE DESIGN

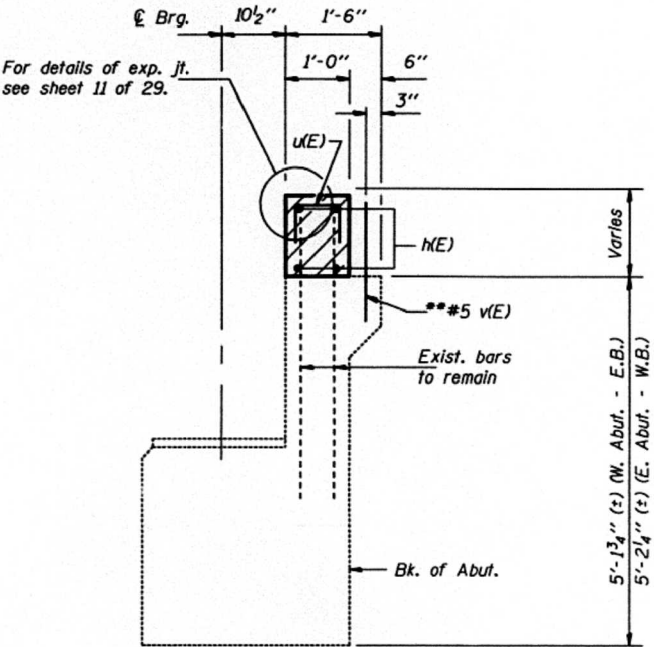
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

** Drill and grout bars in $\frac{3}{4}$ " ϕ x 9"
min. drilled holes according to
Art. 584 of the Standard Specifications.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	79
		CONTRACT NO. 68F54		
		ILLINOIS FED. AID PROJECT		

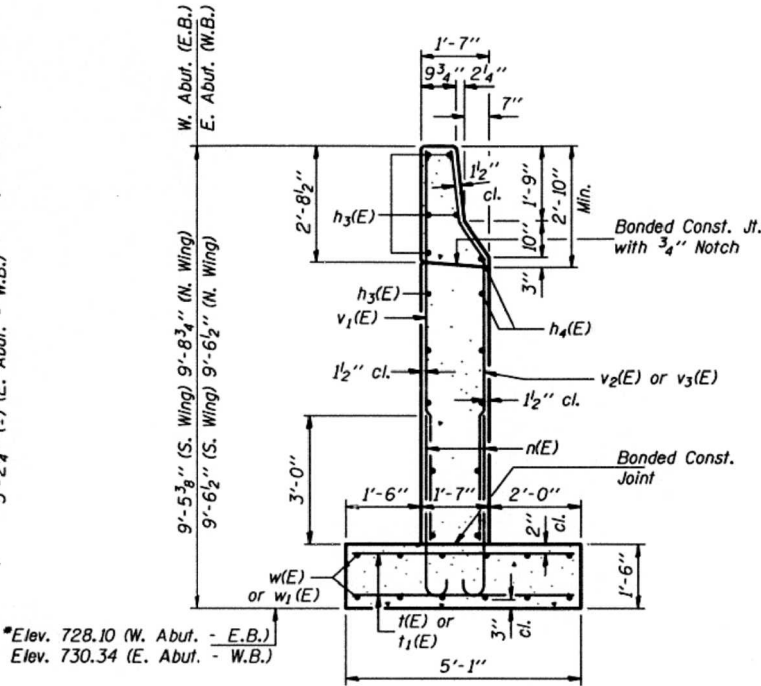
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.I. 74	90 (15HB-1) 1-1	TAZEWELL	101	50
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		29 SHEETS



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

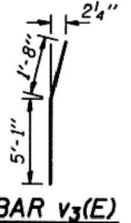
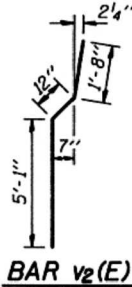
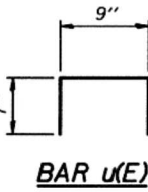
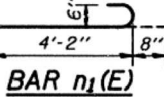
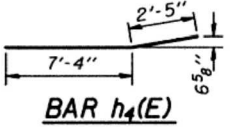
** Drill & grout bars in 7/8" ϕ x 6" drilled holes according to Article 584 of the Standard Specifications.



* Elev. 728.10 (W. Abut. - E.B.)
Elev. 730.34 (E. Abut. - W.B.)

* Match existing bottom of footing elevation.

SECTION B-B



**TWO ABUTMENTS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
n(E)	8	#6	42'-9"	
h1(E)	20	#5	6'-10"	L
h2(E)	20	#5	6'-10"	J
h3(E)	40	#4	9'-9"	
h4(E)	24	#4	9'-9"	
n(E)	88	#6	4'-10"	
i(E)	72	#4	4'-10"	
i1(E)	16	#4	2'-0"	
u(E)	88	#5	1'-11"	
v(E)	88	#5	1'-10"	
v1(E)	44	#6	7'-8"	
v2(E)	32	#6	7'-9"	
v3(E)	12	#6	6'-9"	
w(E)	24	#4	9'-9"	
w1(E)	24	#4	8'-3"	
w2(E)	24	#4	2'-2"	
Structure Excavation		Cu. Yd.	76.1	
Concrete Structures		Cu. Yd.	24.1	
Reinforcement Bars, Epoxy Coated		Pound	3900	

Reinforcement bars designated (E) shall be epoxy coated.
Maximum footing pressure under wingwall = 1.43 KSF.
All edges shall have 3/4" chamfer except as noted.

FOR INFORMATION ONLY

**WEST ABUTMENT - E. BOUND LANES
EAST ABUTMENT - W. BOUND LANES
F.A.I. RTE. 74 - SEC. 90(15HB-1)I-1
TAZEWELL COUNTY
STATION 634+12.35**

DESIGNED	Chad Fuesting	EXAMINED	January 26, 2000
CHECKED	Nicholas J. Sovell	PASSED	Thomas J. Damschke
DRAWN	Michael R. Gillette		Engineer of Bridges and Structures
CHECKED	C.J.F. N.J.S.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING ABUTMENT
SN 090-0019 & 090-0020

SHEET 36 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	80
				CONTRACT NO. 68F54

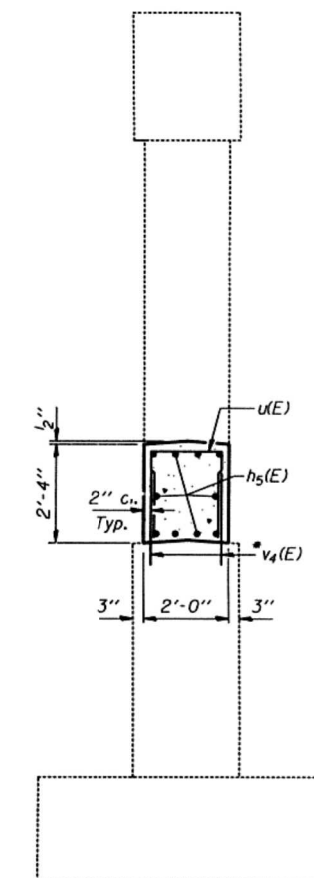
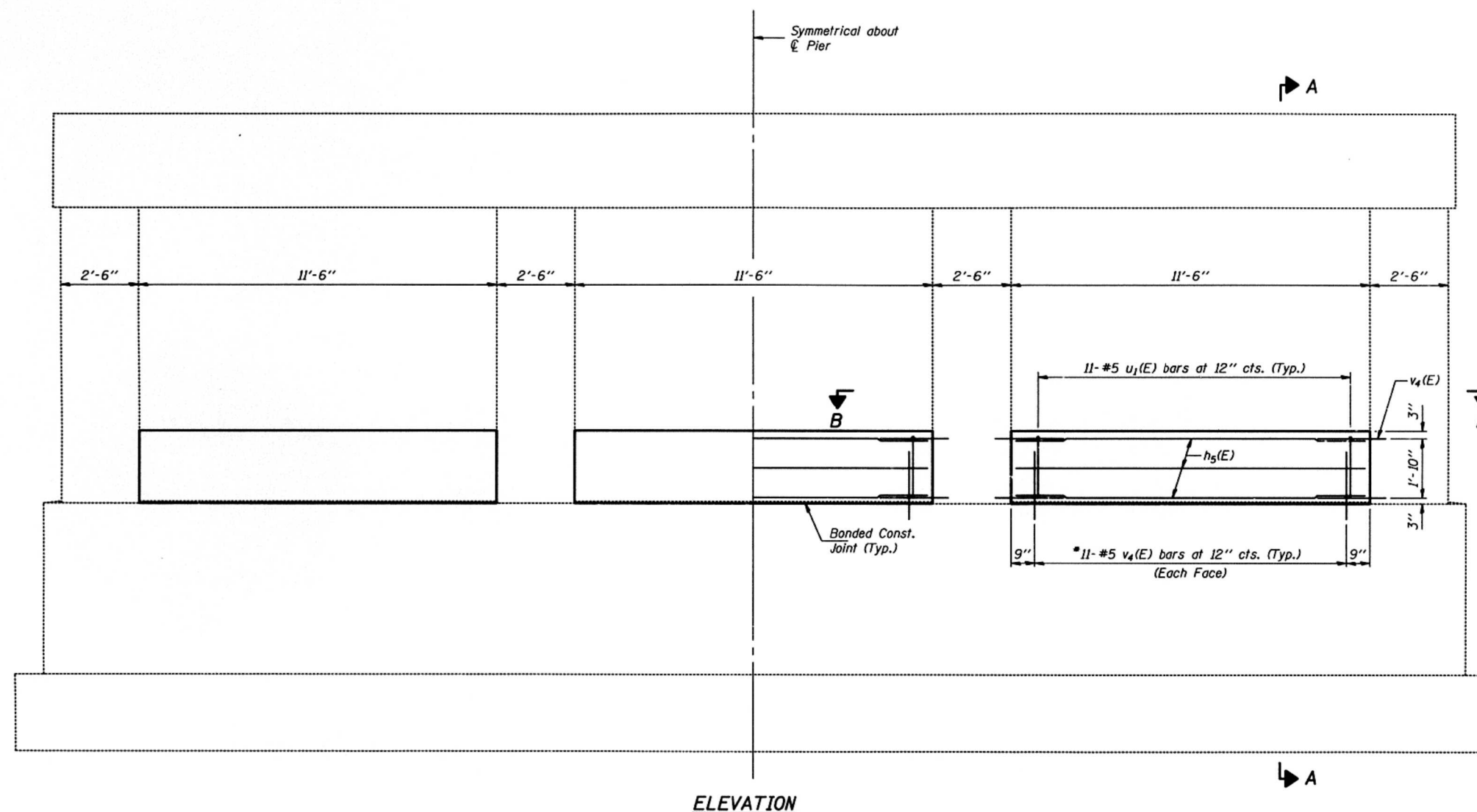
ILLINOIS FED. AID PROJECT

TWM
ENGINEERING
GEOSPATIAL SERVICES
TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME	= mjoost	DESIGNED	- NP	REVISED	-
		CHECKED	- ALN	REVISED	-
PLOT SCALE	= 0.2,0000 " = 1 in.	DRAWN	- NP	REVISED	-
PLOT DATE	= 12/1/2020	CHECKED	- ALN	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO.
F.A.I. 74	90 (15HB-D) I-1	TAZEWELL	101	51	29 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

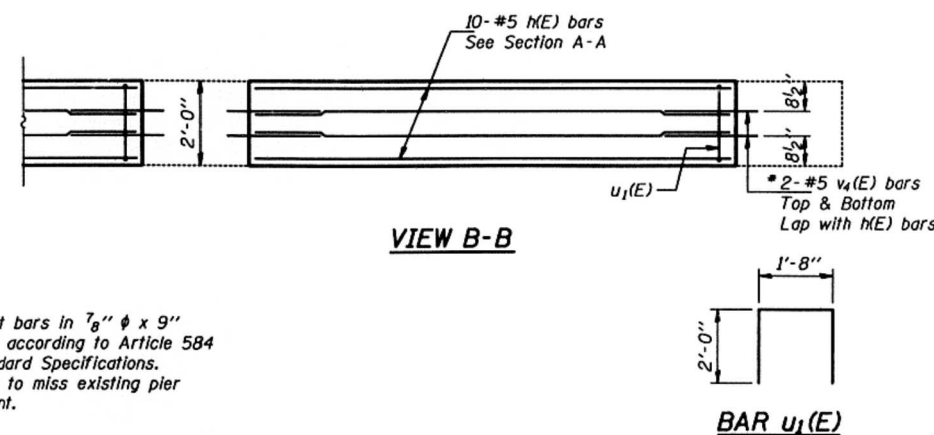


FOUR PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_5(E)$	120	#5	11'-3"	—
$u_1(E)$	132	#5	5'-8"	□
$v_4(E)$	360	#5	2'-2"	—
Concrete Structures			Cu. Yd.	23.8
Reinforcement Bars, Epoxy Coated			Pound	3000

PIERS 1 & 2
F.A.I. RTE. 74 - SEC. 90(15HB-D)I-1
TAZEWELL COUNTY
STATION 634+12.35

FOR INFORMATION ONLY



DESIGNED	Chad Fuesting
CHECKED	Nicholas J. Srvell
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

January 26, 2000

EXAMINED *Thomas J. Domagala*
CHIEF OF DESIGN

PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PIER
SN 090-0019 & 090-0020

SHEET 37 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	81
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

MODEL: Defeat
FILE NAME: 20201019103806W06 1-74 Bridge F5E54 CADD - DWG4.4 Struct0900019-00200900019-002048F54-037_Existing Pier.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME	= mjoost	DESIGNED	- NP	REVISED	-
PLOT SCALE	= 0:2.0000 " = 1" / in.	CHECKED	- ALN	REVISED	-
PLOT DATE	= 12/1/2020	DRAWN	- NP	REVISED	-
		CHECKED	- ALN	REVISED	-

GENERAL NOTES

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 work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring new concrete, 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 existing concrete.

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

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

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings, and other structural steel shall be cleaned per Near White Blast Cleaning (SSPC-SP10). The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning (SSPC-SP15).

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) and per Commercial Grade Power Tool Cleaning (SSPC-SP15) shall be painted according to the requirements of paint system 1 - 0Z/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray (Munsell No. 5B 7/1). The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue (Munsell No. 10B 3/6).

A minimum of 2 air monitors will be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues".

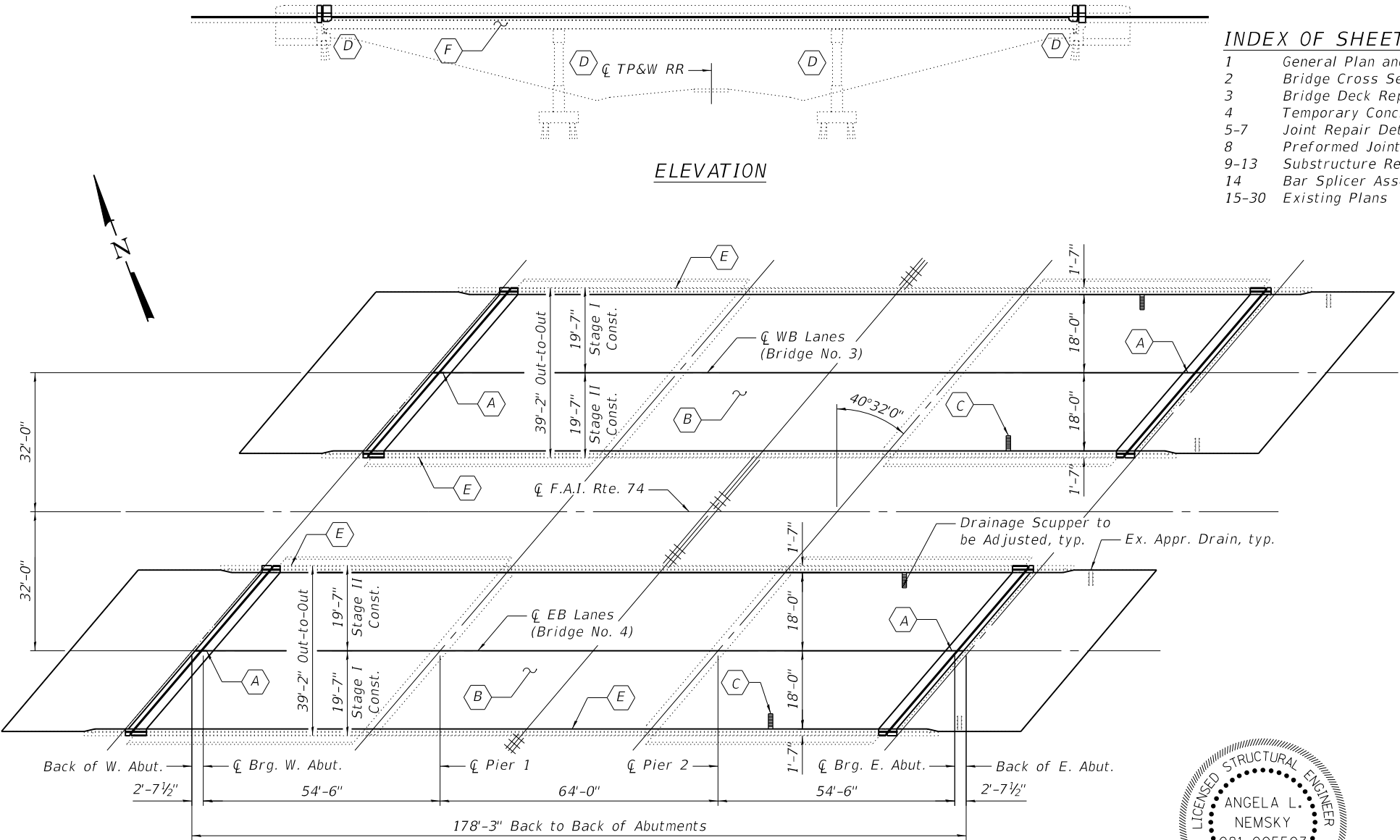
SSPC QP1 and SSPC QP2 Certification is required for this Contract.

Care shall be taken not to damage rubber bearing or joint components during blasting and cleaning operations. Any damage to these components shall be repaired at the contractor's expense.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Bridge Cross Sections
- 3 Bridge Deck Repair Details
- 4 Temporary Conc. Barrier
- 5-7 Joint Repair Details
- 8 Preformed Joint Strip Seal
- 9-13 Substructure Repairs
- 14 Bar Splicer Assembly Details
- 15-30 Existing Plans

ELEVATION



PLAN

- (A) - Remove and replace expansion joints at abutments
- (B) - ¾" Bridge Deck Scarification, 2¼" Microsilica Concrete Overlay on bridge deck, approach pavement, and transition slab
- (C) - Adjust Drainage Scuppers
- (D) - Concrete repair of abutments or piers
- (E) - Concrete repair of the parapets and apply Protective Coat (Special) to the top and inside face of parapets
- (F) - Clean and paint all structural steel and bearings



Angela L. Nemsky
12/01/2020
EXPIRES 11/30/2022

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	28.6		28.6
Concrete Superstructure	Cu. Yd.	31.0		31.0
Preformed Joint Strip Seal	Foot	198		198
Reinforcement Bars, Epoxy Coated	Pound	4000		4000
Bar Splicers	Each	56		56
Protective Coat	Sq. Yd.	1888		1888
Bridge Deck Grooving	Sq. Yd.	1740		1740
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	176.0	31.7	207.7
Bridge Deck Scarification, ¾"	Sq. Yd.	2164		2164
Bridge Deck Microsilica Concrete Overlay, 2¼"	Sq. Yd.	2164		2164
Containment and Disposal of Lead Paint Residues No. 3	L. Sum	1		1
Containment and Disposal of Lead Paint Residues No. 4	L. Sum	1		1
Cleaning and Painting Steel Bridge No. 3	L. Sum	1		1
Cleaning and Painting Steel Bridge No. 4	L. Sum	1		1
Protective Coat (Special)	Sq. Yd.	561		561
Surface Filler (Special)	Gallon	9		9
Drainage Scuppers to be Adjusted	Each	4		4

MODEL: Default
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TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM
LICENSE NO: 184-001220

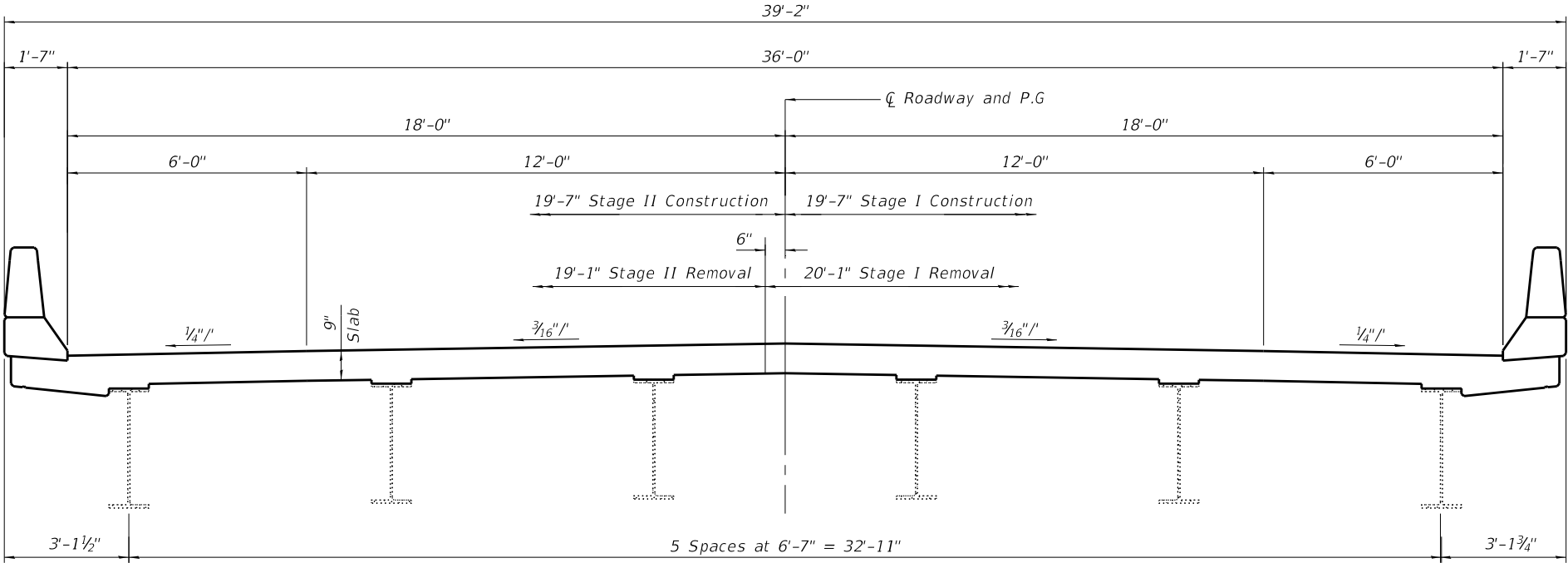
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PLOT DATE = 12/1/2020	CHECKED - ALN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
SN 090-0021 & SN090-0022

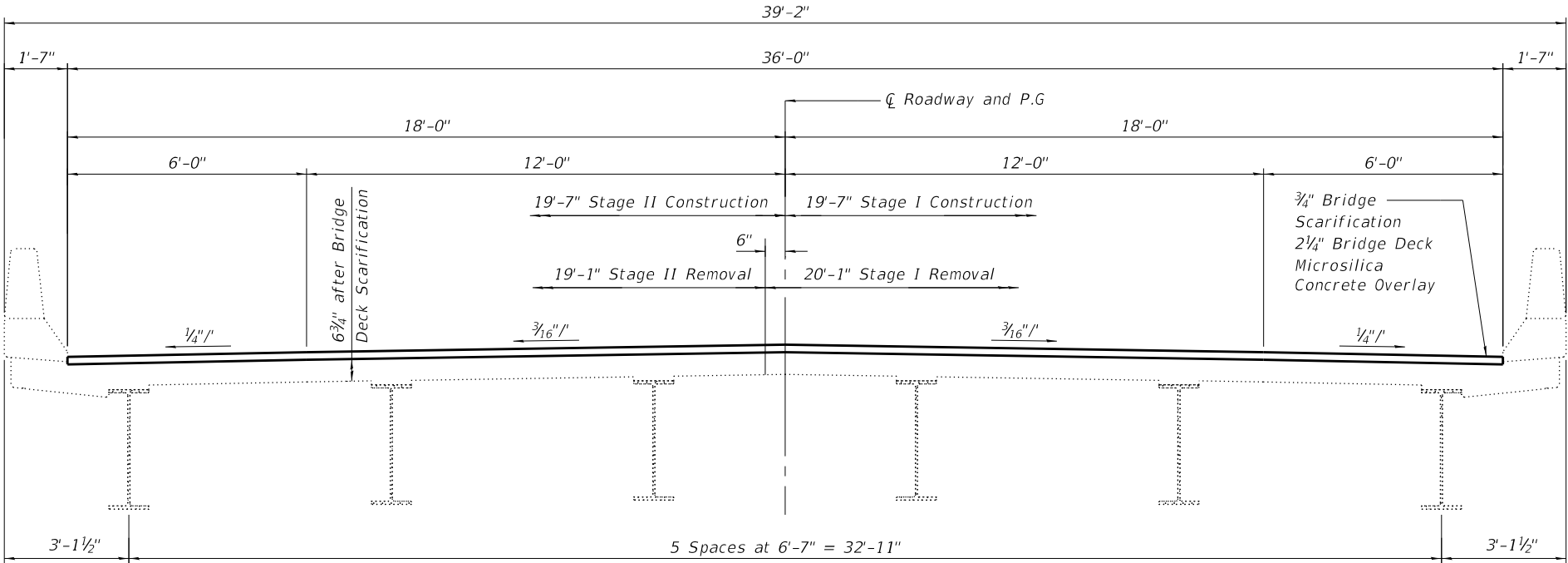
SHEET 1 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	82
				CONTRACT NO. 68F54
				ILLINOIS / FED. AID PROJECT



CROSS SECTION AT ABUTMENT

(Looking East - E. Bound Lanes S.N. 090-0021)
(Looking West - W. Bound Lanes S.N. 090-0022)



CROSS SECTION AT MIDSPAN

(Looking East - E. Bound Lanes S.N. 090-0021)
(Looking West - W. Bound Lanes S.N. 090-0022)

MODEL: Default
FILE NAME: P:\2019\190388\W06 17A Bridge F5E614 CADD - DWG\4.4 Struct\0900021-0022\68F54-002 Typical Section 0021-0022.dgn



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LICENSE NO:
184-001220

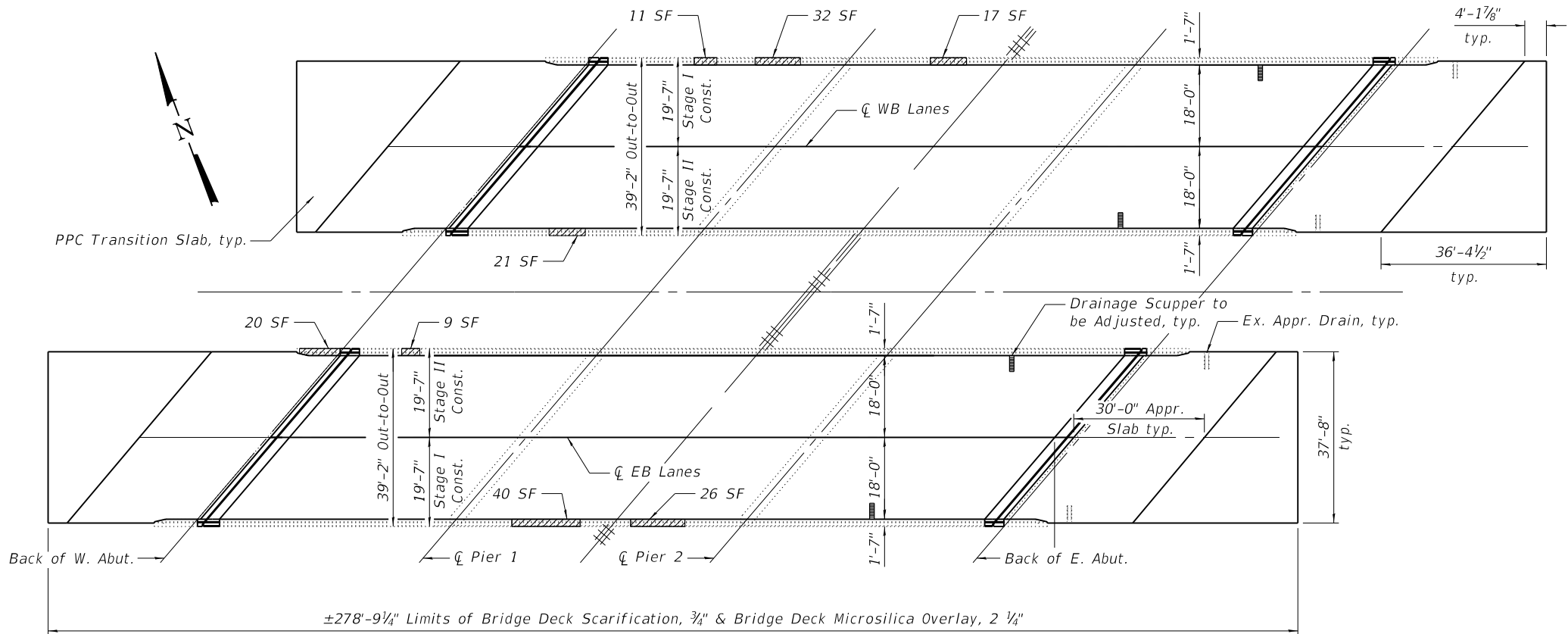
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PLOT DATE = 12/1/2020	CHECKED - CDK	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE CROSS SECTIONS
SN. 090-0021 AND SN. 090-0022**

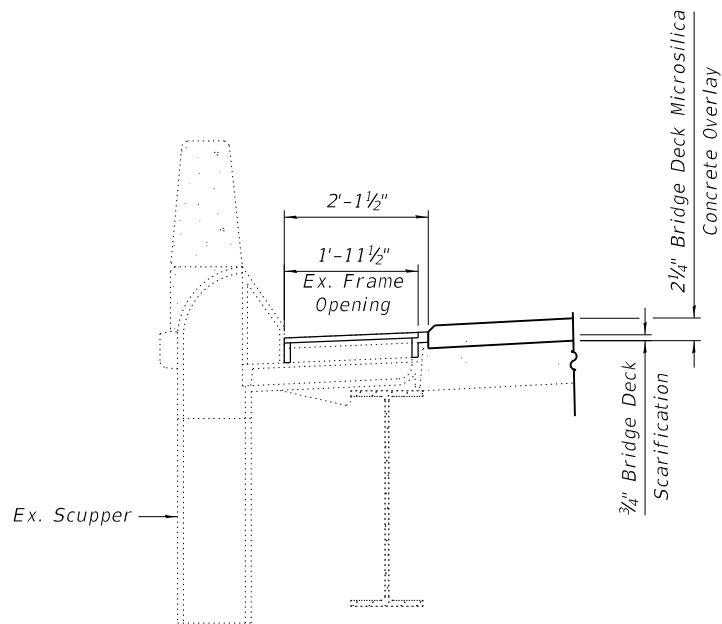
SHEET 2 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

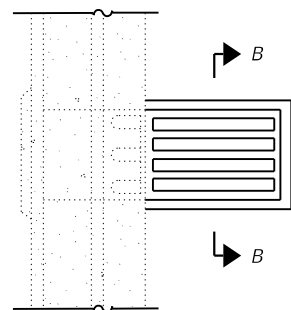


PLAN

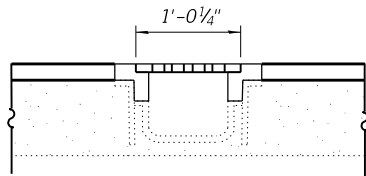
▨ - Structural Repair of Concrete (Depth ≤ or Equal to 5")



TYPICAL DS-22 SCUPPER DETAIL



PLAN



SECTION B-B

Notes:

1. The Contractor shall field verify existing dimensions and details of the existing scupper to make necessary adjustments prior to construction of new Adjusting Ring or ordering of material for adjusting drainage scuppers
2. All cast iron parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
3. Bolts, anchor studs, washers, and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to the requirements of AASHTO M 232.
4. Cast iron parts shall be unfinished.
5. Adjusting Ring shall be from Neenah or approved equal. Structural Steel weldments or equivalent sections of the same configuration may be submitted for cast iron. Fillet or full penetration welds may be used for weldments. Details shall be submitted to the Engineer for approval.
6. Provide a 1/8" fillet weld around perimeter of new Adjusting Ring to secure to existing scupper. Electrode shall be compatible with cast iron.
7. Cost of all labor and materials necessary to clean all existing scuppers, to install adjusting scupper rings, and to remove and re-install grates is included in the cost for Drainage Scuppers to be Adjusted.

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Deck Grooving	Sq. Yd.	1740
Structural Repair of Concrete (Depth ≤ or Equal to 5")	Sq. Ft.	176
Protective Coat	Sq. Yd.	1888
Protective Coat (Special)	Sq. Yd.	561
Surface Filler (Special)	Gallon	9
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	2164
Bridge Deck Scarification, 3/4"	Sq. Yd.	2164
Drainage Scuppers to be Adjusted	Each	4

* Apply to new concrete and overlay only.
(Bridge & Appr. Slab)
** Apply to parapets only.
(Bridge & Appr. Slab)

MODEL: Default
FILE NAME: P:\2019\190388\W06 17A Bridge P5E64 CADD - DWG\4.4 Struct\0900021-0022\0900021-0022-68F54-003 Bridge Deck Repair Details.dgn
DATE: 12/1/2020 10:00:00 AM



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LICENSE NO:
184-001220

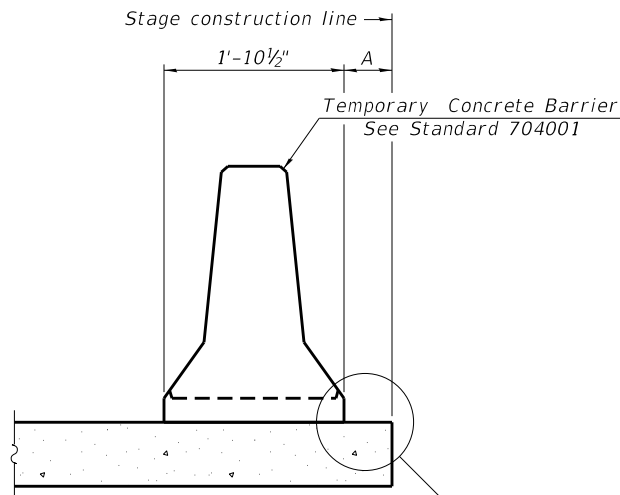
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REPAIR PLAN
SN 090-0021 & SN090-0022

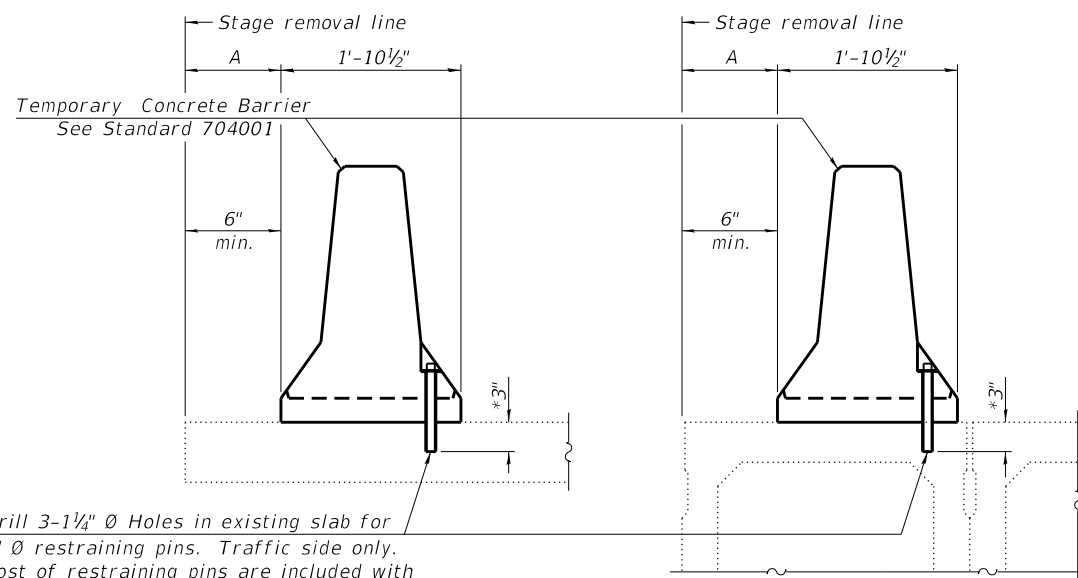
SHEET 3 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	84
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

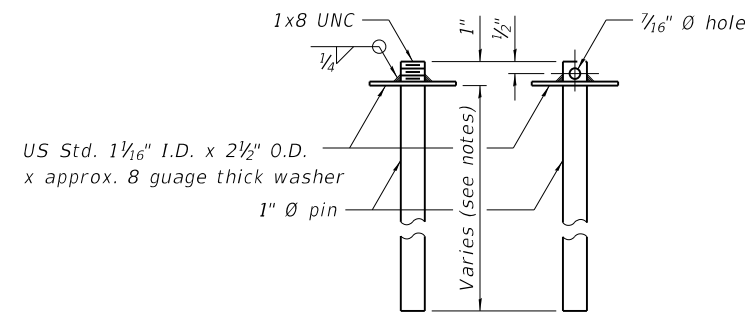


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

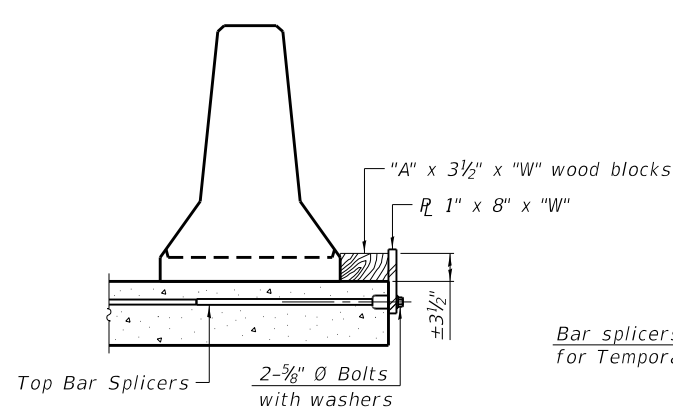
EXISTING SLAB

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

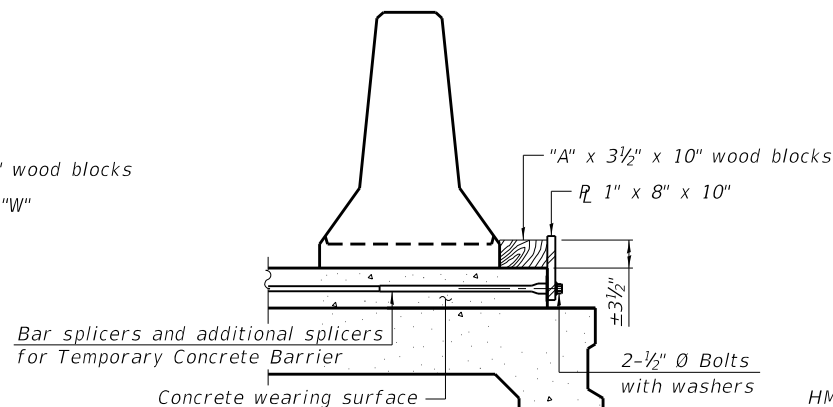
EXISTING DECK BEAM



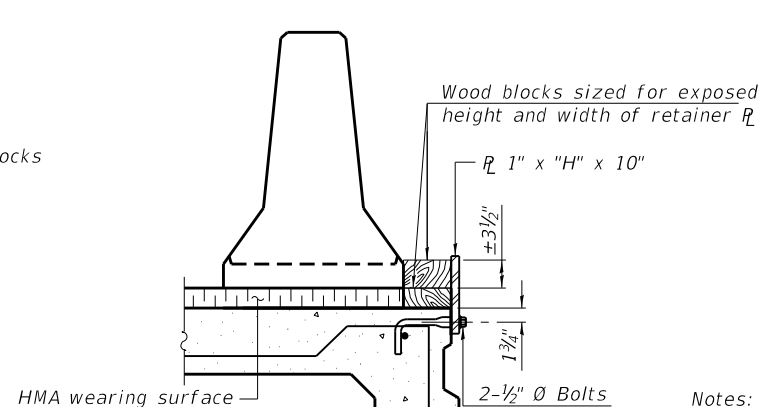
RESTRAINING PIN



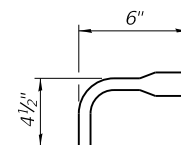
DETAIL I



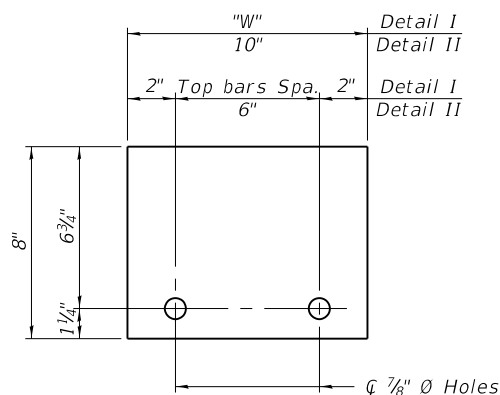
DETAIL II



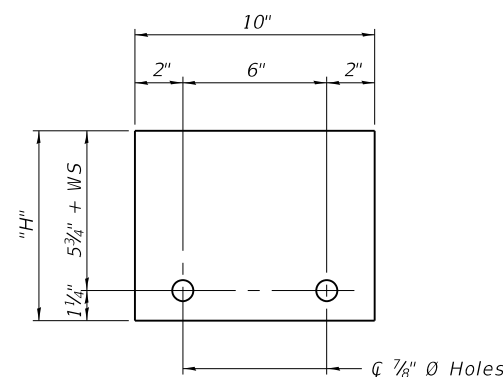
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate C of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

See Roadway Plans for quantity.

MODEL: Default
FILE NAME: R-27-2017-190388W06 17A Bridge PSE614 CADD - DWG4.4 Struct0900021-0022-68F54-004 Temporary Barrier Details.dgn

R-27

2-17-2017



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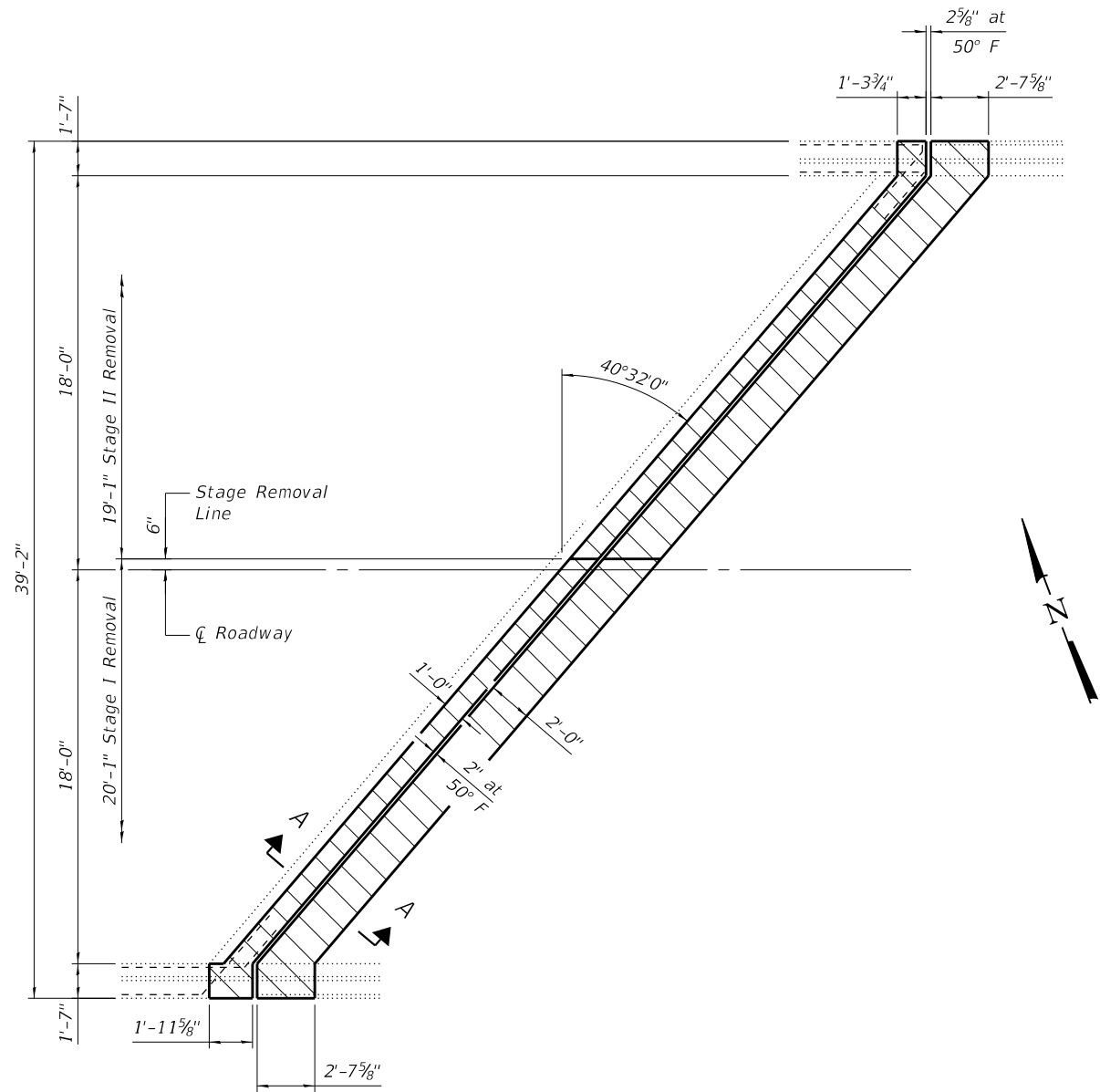
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PLOT DATE = 12/1/2020	CHECKED - CDK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 090-0021 & 090-0022

SHEET 4 OF 30 SHEETS

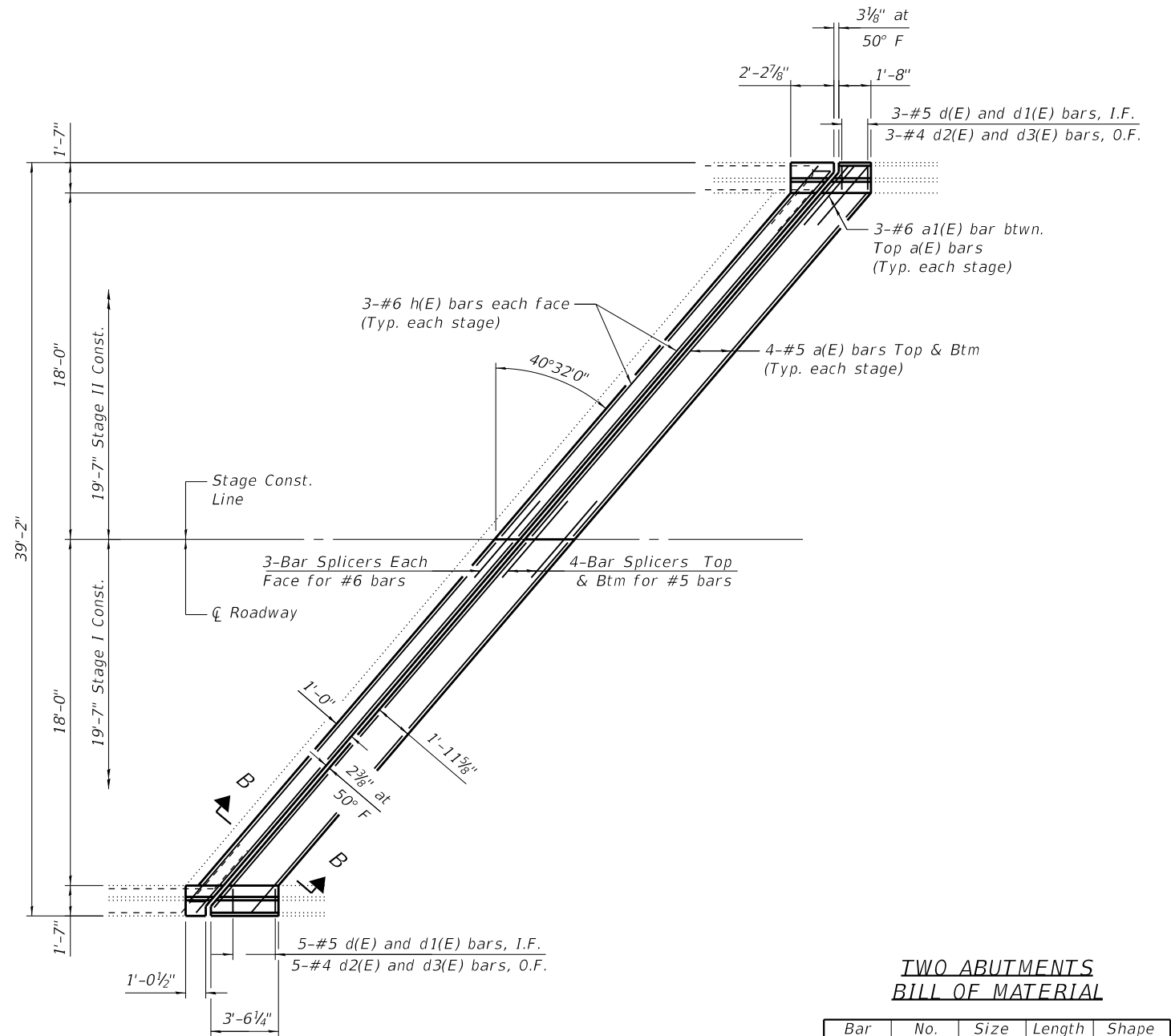
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	85
				CONTRACT NO. 68F54
				ILLINOIS FED. AID PROJECT



PLAN
CONCRETE REMOVAL AT W. ABUT.

Stage removal dimensions are shown for the EB structure. WB is similar.

Notes:
EB structure shown, WB similar.
Hatched areas indicate Concrete Removal.
For Section view, see sheet 7 of 30.
Dimensions are based on a Rolled Rail Strip Seal Joint.
If the contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on sheet 8 of 30.



PLAN
CONCRETE REPLACEMENT AT W. ABUT.

TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
* a(E)	32	#5	25'-3"	—
a1(E)	12	#6	4'-0"	—
d(E)	16	#5	3'-0"	┐
d1(E)	16	#5	2'-7"	┐
d2(E)	16	#4	3'-0"	┐
d3(E)	16	#4	4'-1"	┐
* h(E)	24	#6	25'-3"	—
Concrete Removal			Cu. Yd.	14.3
Concrete Superstructure			Cu. Yd.	15.5
Reinforcement Bars, Epoxy Coated			Pound	2000

* Cut to fit as required.

MODEL: Default
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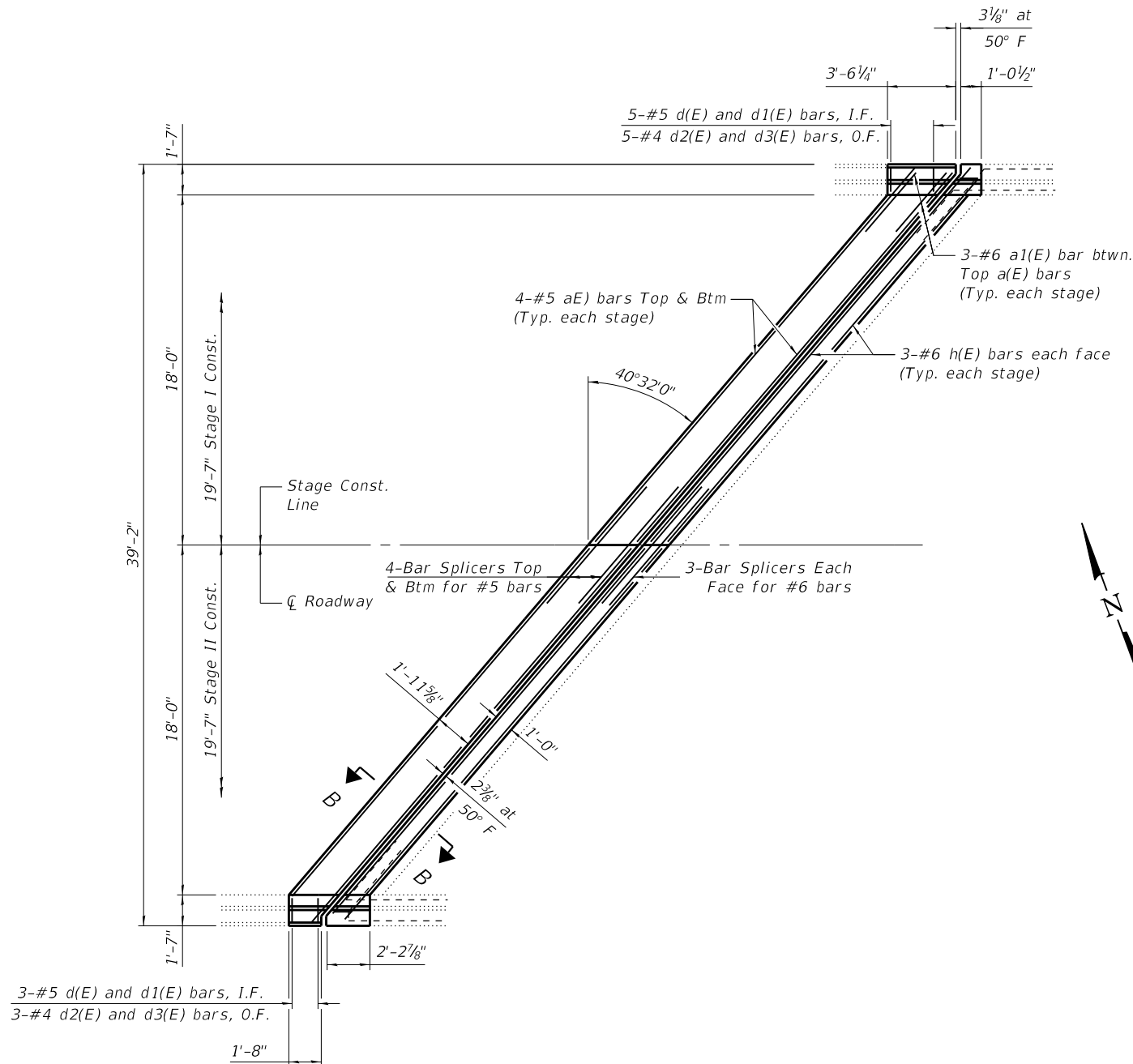
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT JOINT REPLACEMENT PLAN
SN 090-0021 & SN 090-0022

SHEET 5 OF 30 SHEETS

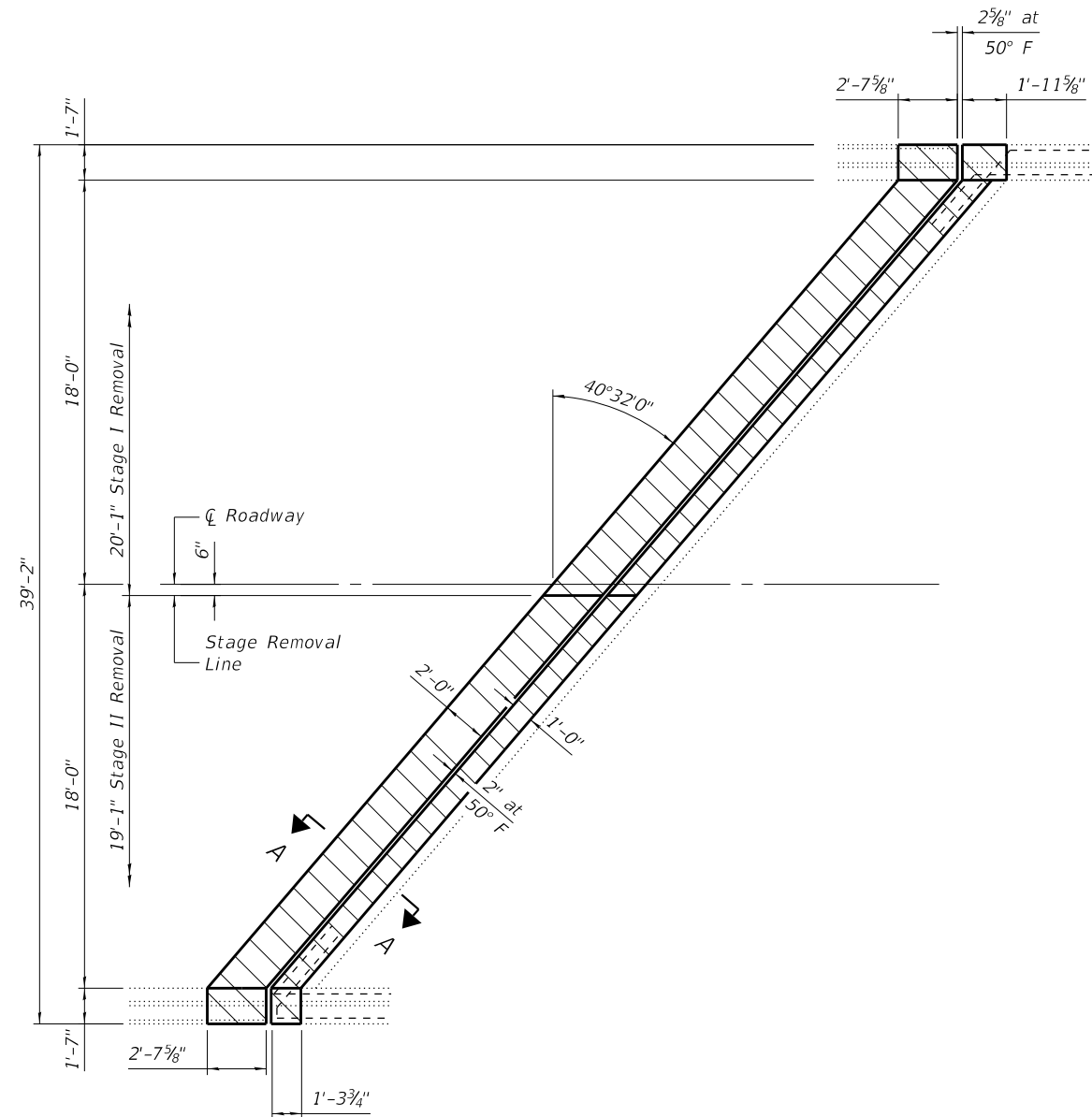
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	86
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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PLAN
CONCRETE REPLACEMENT AT E. ABUT.

Notes:
EB structure shown, WB similar.
Hatched areas indicate Concrete Removal.
For Section view, see sheet 7 of 30.
Dimensions are based on a Rolled Rail Strip Seal Joint.
If the contractor elects to use the Welded Rail Strip Seal Joint,
deck dimensions may require adjustments to satisfy the details
on sheet 8 of 30.



PLAN
CONCRETE REMOVAL AT E. ABUT.
Stage removal dimensions are shown
for the EB structure. WB is similar.

TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
* a(E)	32	#5	25'-3"	—
a1(E)	12	#6	4'-0"	—
d(E)	16	#5	3'-0"	┐
d1(E)	16	#5	2'-7"	┐
d2(E)	16	#4	3'-0"	┐
d3(E)	16	#4	4'-1"	┐
* h(E)	24	#6	25'-3"	—
Concrete Removal			Cu. Yd.	14.3
Concrete Superstructure			Cu. Yd.	15.5
Reinforcement Bars, Epoxy Coated			Pound	2000

* Cut to fit as required.



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DESIGNED	- CDK
CHECKED	- ALN
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REVISED	-
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REVISED	-

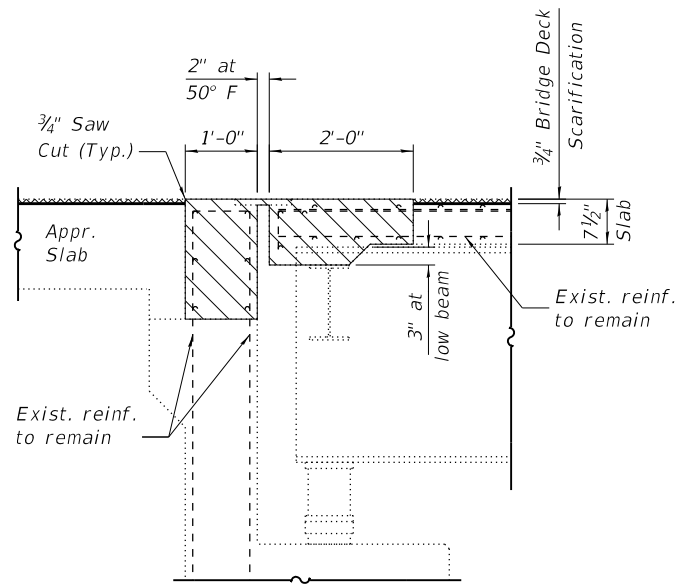
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT JOINT REPLACEMENT PLAN
SN 090-0021 & SN 090-0022

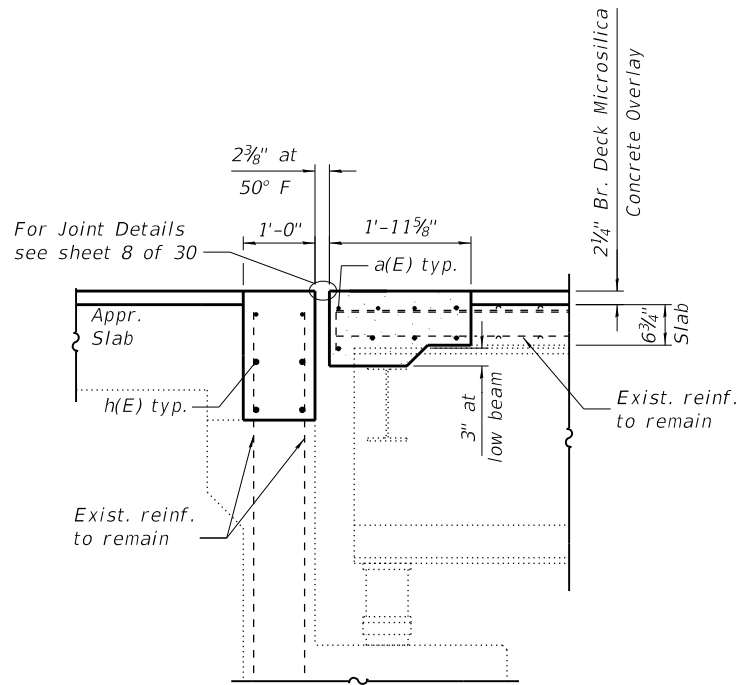
SHEET 6 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

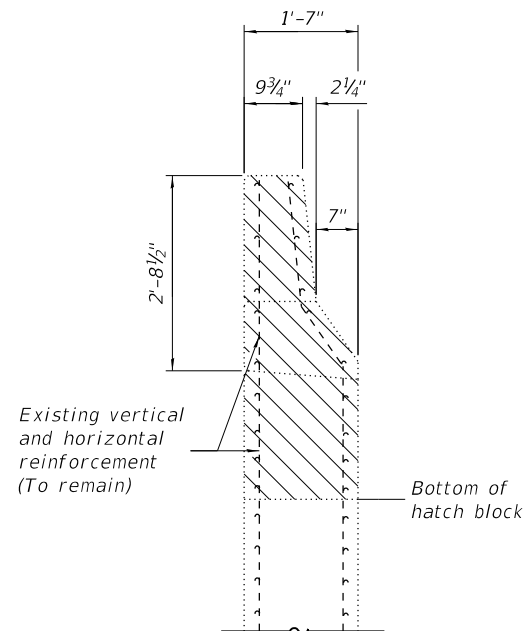
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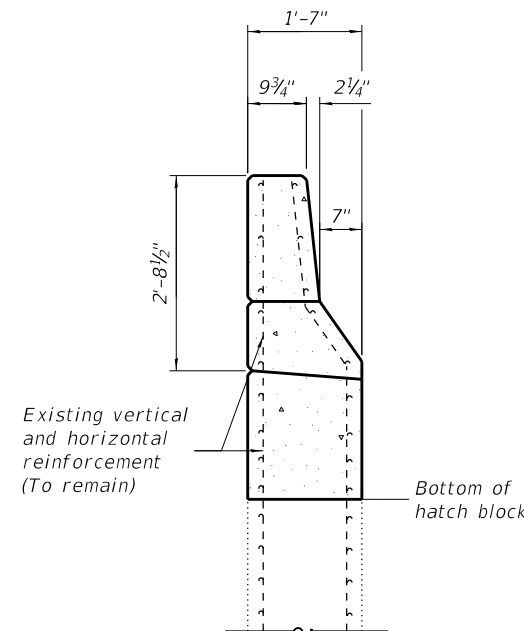
SECTION A-A
(Dims. at Rt. L's)



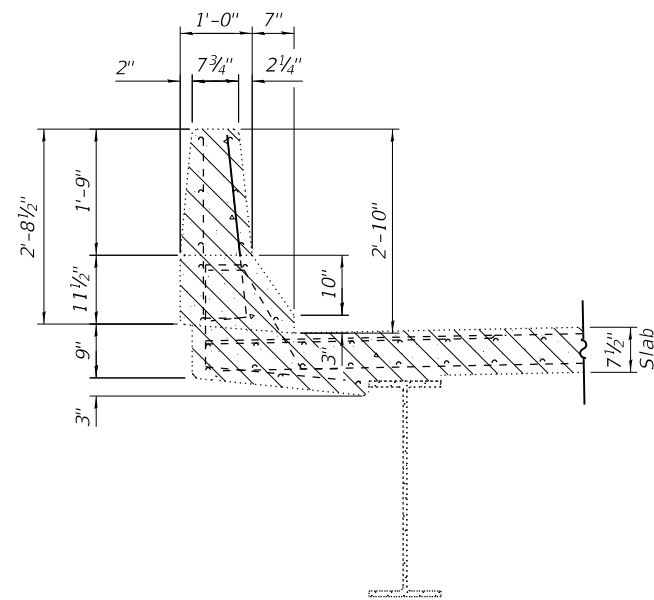
SECTION B-B
(Dims. at Rt. L's)



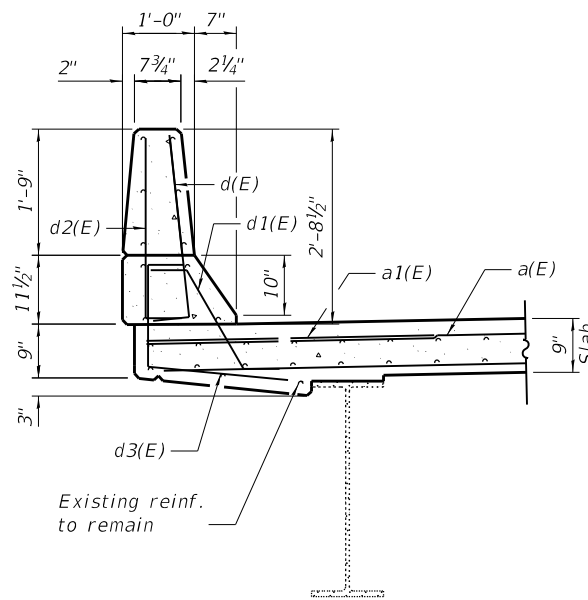
SECTION THRU WINGWALL
(Showing Removal)



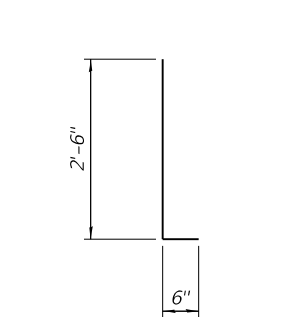
SECTION THRU WINGWALL
(Proposed)



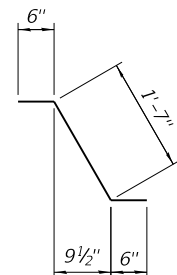
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BRIDGE PARAPET
(Showing Removal)



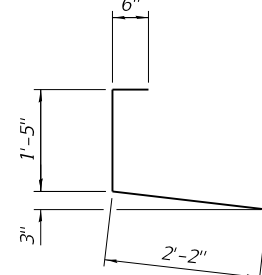
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BRIDGE PARAPET
(Proposed)



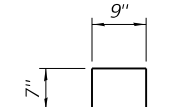
BARS d(E) & d2(E)



BAR d1(E)



BAR d3(E)



BAR u(E)

Notes:
Hatched areas indicate Concrete Removal.
Cross Hatched areas indicate Bridge Deck Scarification.
Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on sheet 8 of 30.



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USER NAME = ckoltveit
DESIGNED - CDK
CHECKED - ALN
PLOT SCALE = 0.2,0000 " = 1' in.
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PLOT DATE = 12/1/2020
CHECKED - ALN
REVISED -

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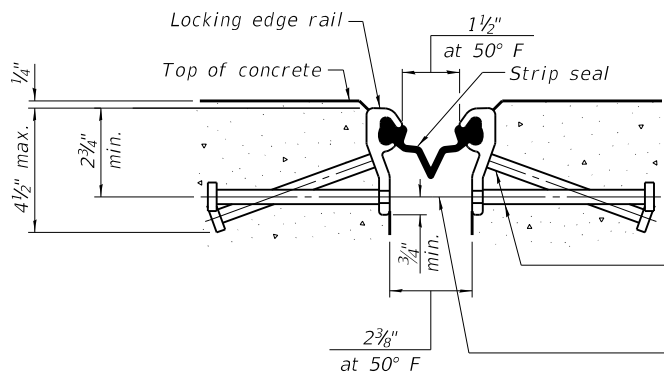
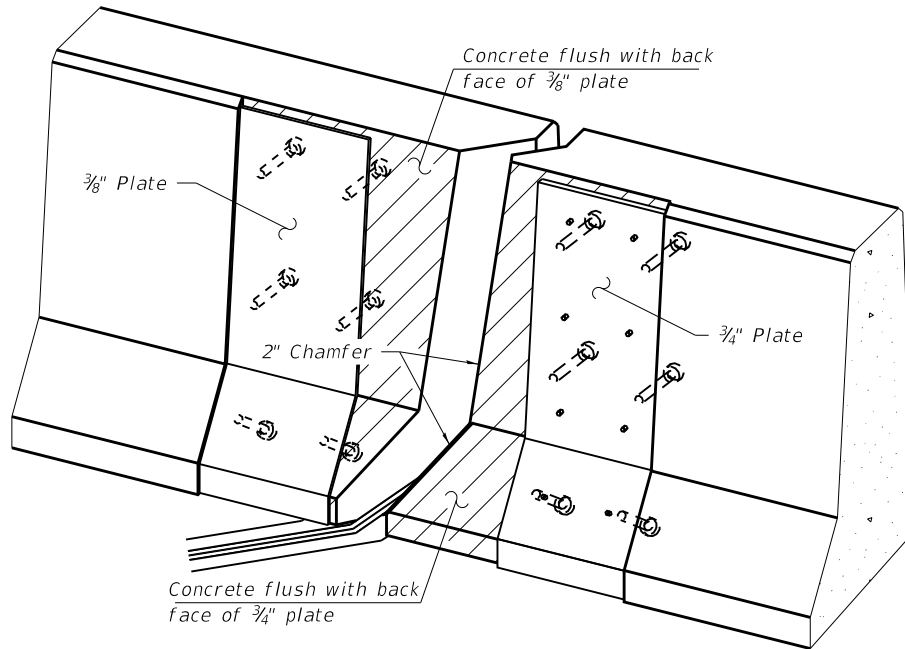
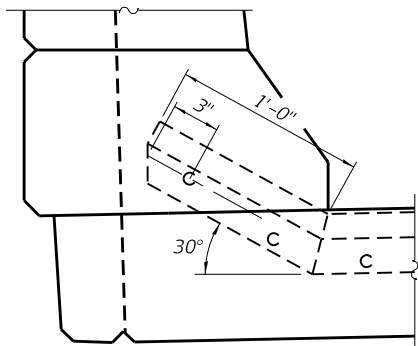
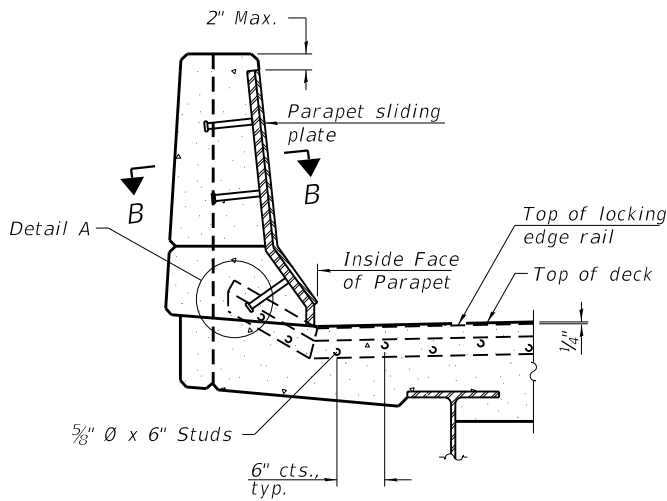
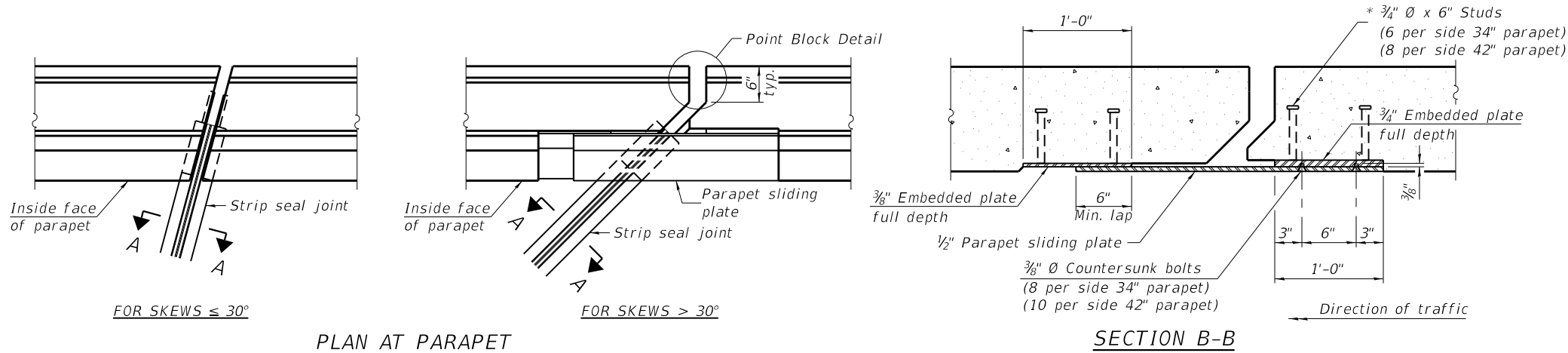
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PLOT DATE = 12/1/2020
CHECKED - ALN
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS
SN 090-0021 AND SN 090-0022

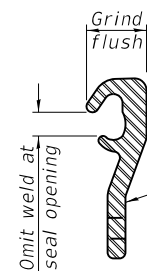
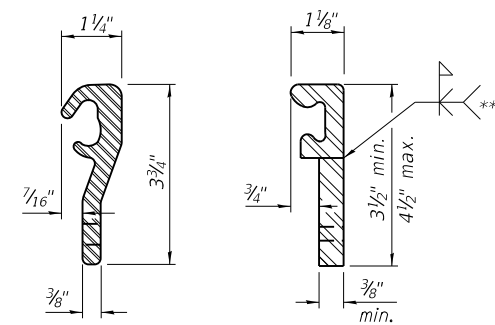
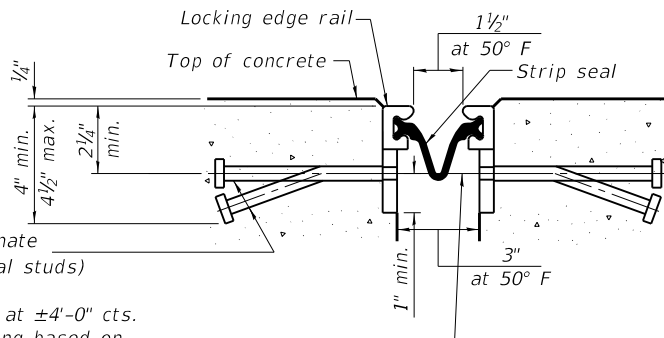
SHEET 7 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	88
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



* 5/8" $\emptyset$ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

3/8" ϕ threaded rods in 7/16" ϕ holes at $\pm 4'-0"$ 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.



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

TOTAL BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	198

EJ-SS

8-11-17

MODEL: Default
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17A Bridge F5E64



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USER NAME = ckoltveit
DESIGNED - DRA
CHECKED - CDK
PLOT SCALE = 0:2.0000 1" = 1'
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PLOT DATE = 12/1/2020

REVISD -
REVISD -
REVISD -
REVISD -

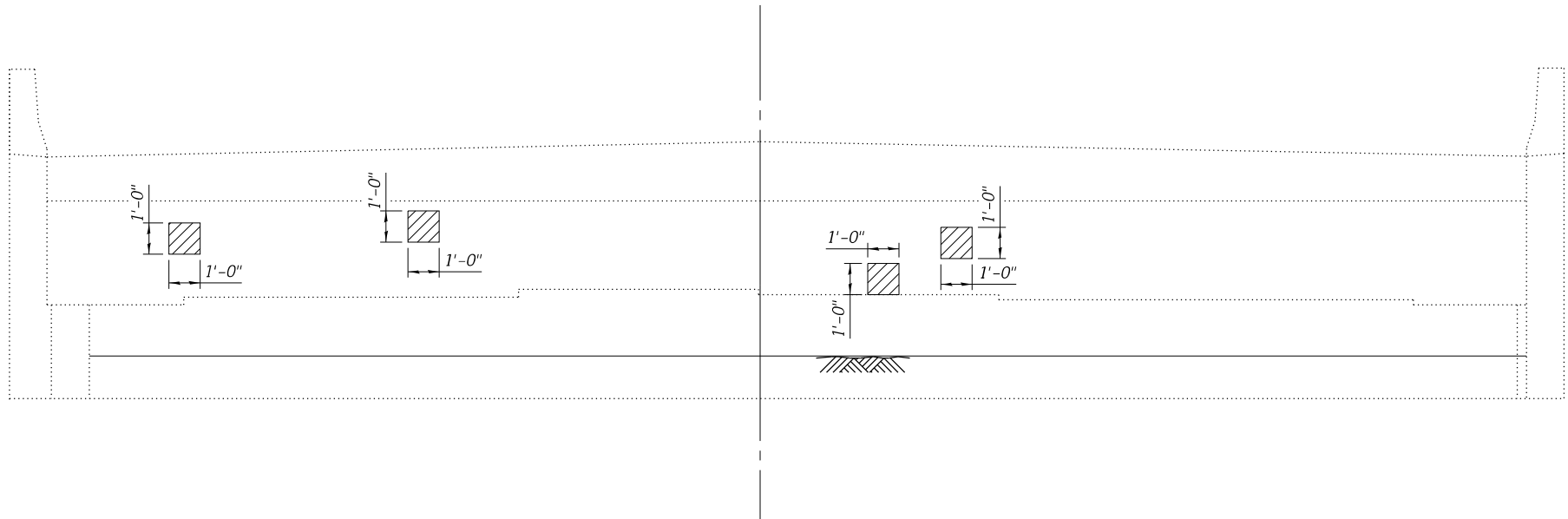
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

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PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 090-0021 & 090-0022

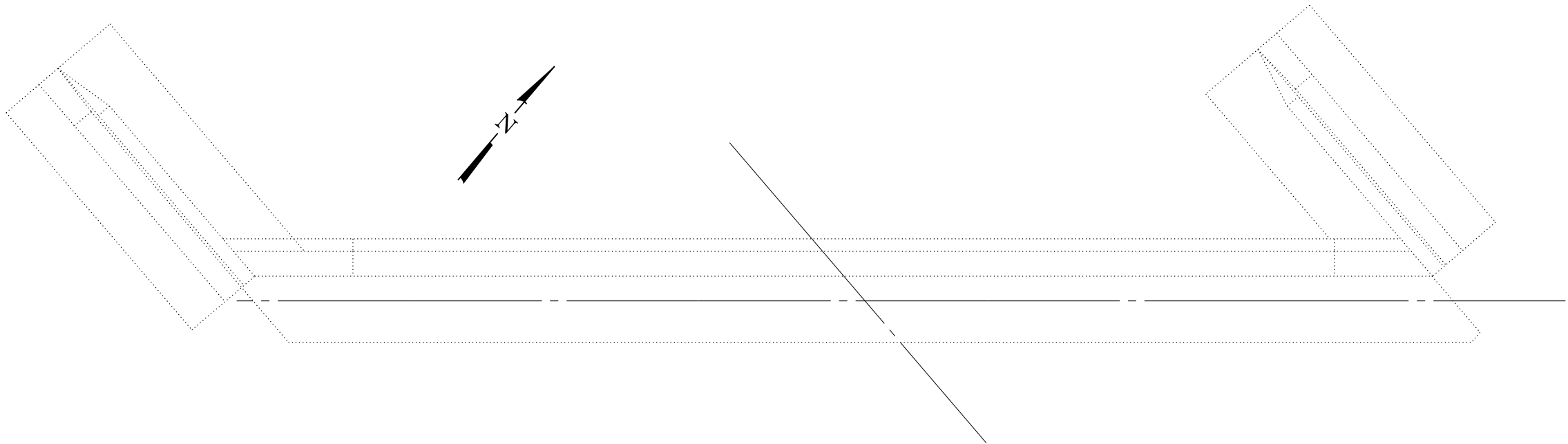
SHEET 8 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	89
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



ELEVATION - REPAIR

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



PLAN - REPAIR

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	4.0

MODEL: Sheet
FILE: TWM_PLOT01910388W06_17A_Bridge_F5E614_CADD - DWG04.4_Struct0900021-0022-68F54-010_W_Abutment_Repair_Details_0021.dgn



TWM, INC.
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IL DESIGN FIRM
LICENSE NO:
184-001220

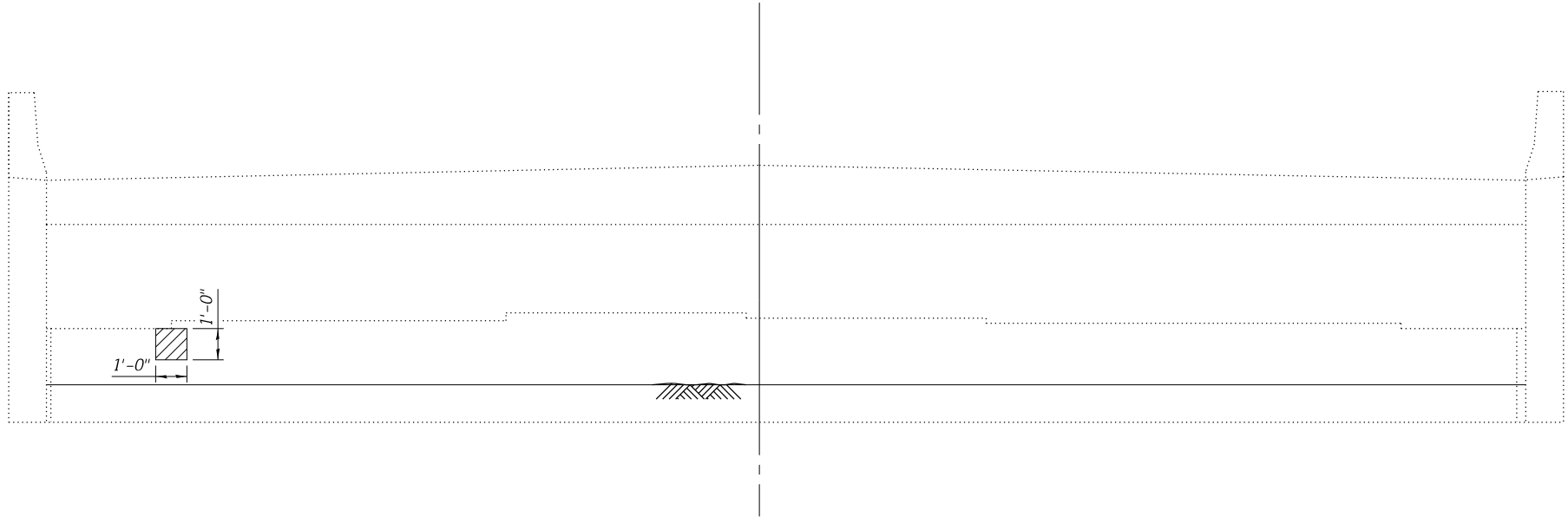
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PLOT SCALE = 0:2.0000 " = 1" / in.	DRAWN - NP	REVISED -
PLOT DATE = 12/1/2020	CHECKED - MJJ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. ABUTMENT CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0021

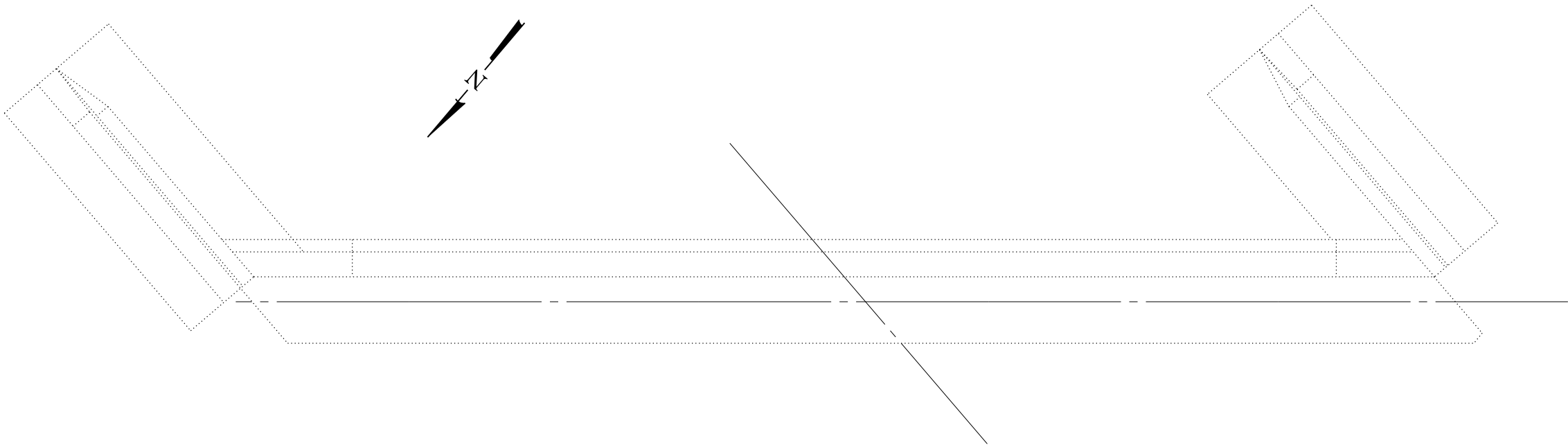
SHEET 10 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	91
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				



ELEVATION - REPAIR

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



PLAN - REPAIR

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	1.0

MODEL: Sheet
FILE: TWM-IL-202019190388\WC6 17A Bridge F5E614 CADD - DWG\4.4 Struct\0900021-0022\0900021-0022-68F54-011 E_Abutment Repair Details 0022.dgn



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IL DESIGN FIRM
LICENSE NO:
184-001220

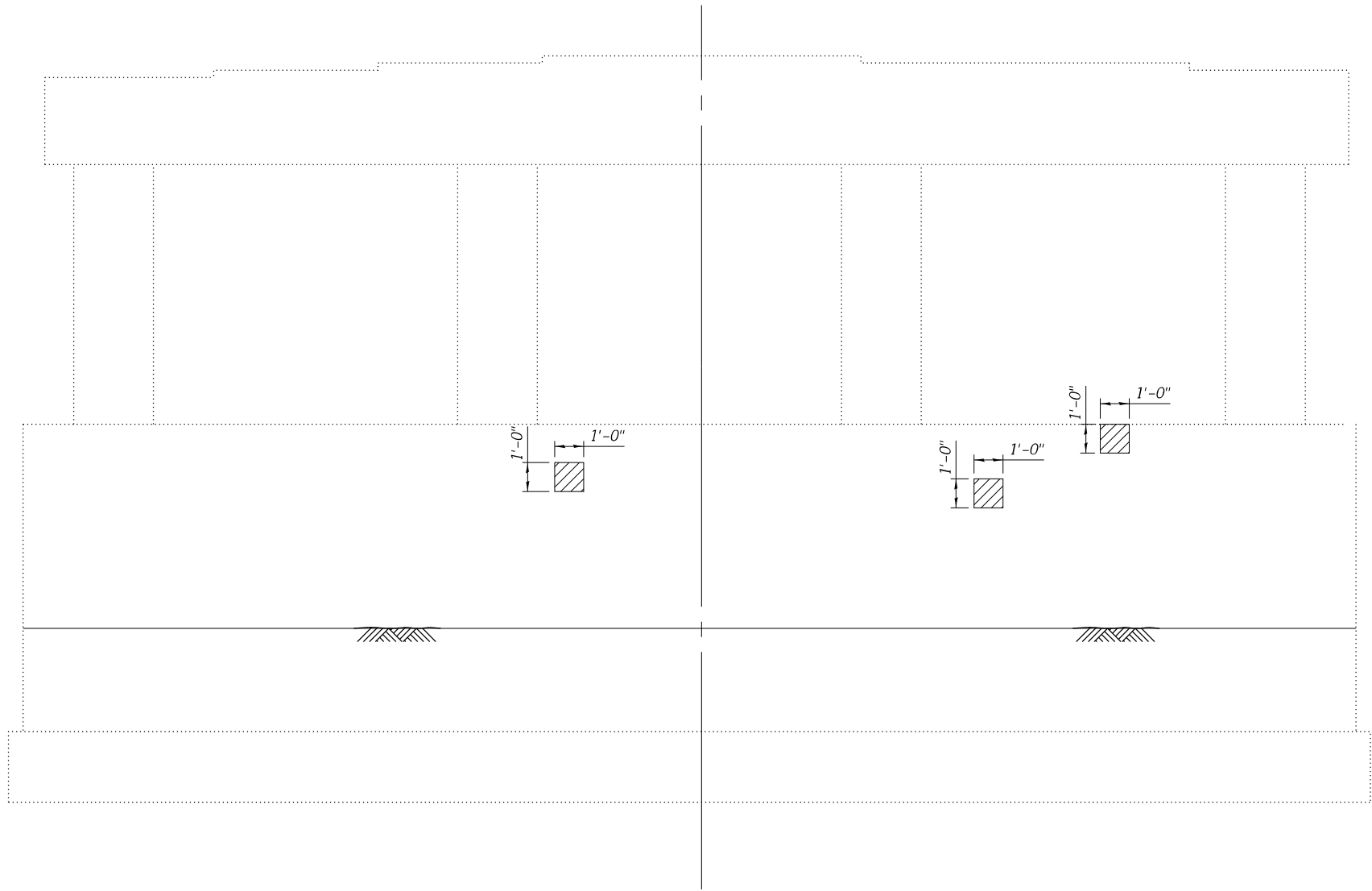
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PLOT DATE = 12/1/2020	CHECKED - MJJ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E. ABUTMENT CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0022

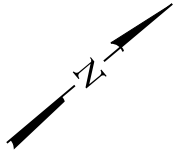
SHEET 11 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	92
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

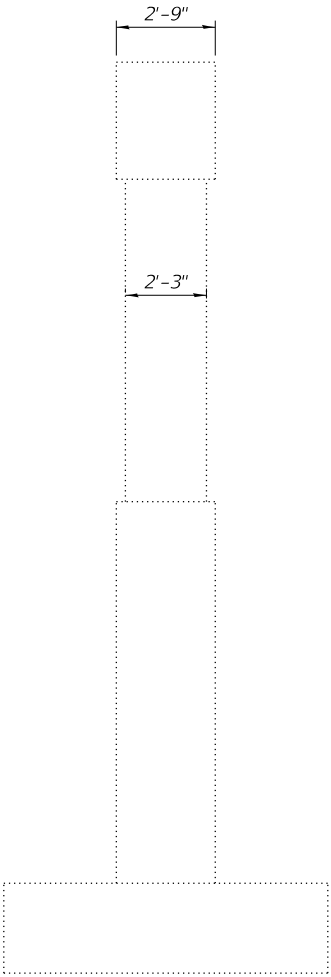


PIER 1 ELEVATION - REPAIR
(Looking West)

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



PIER 1 FOOTING PLAN



END ELEVATION
(Looking North)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	3.0

MODEL: Sheet
FILE: TWM-IL-190388W06_17A_Bridge-SEB14_CADD - DWG4.4_Struct0900021-0022-68F54-012_Pier 1 Repair_Details.dgn



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LICENSE NO:
184-001220

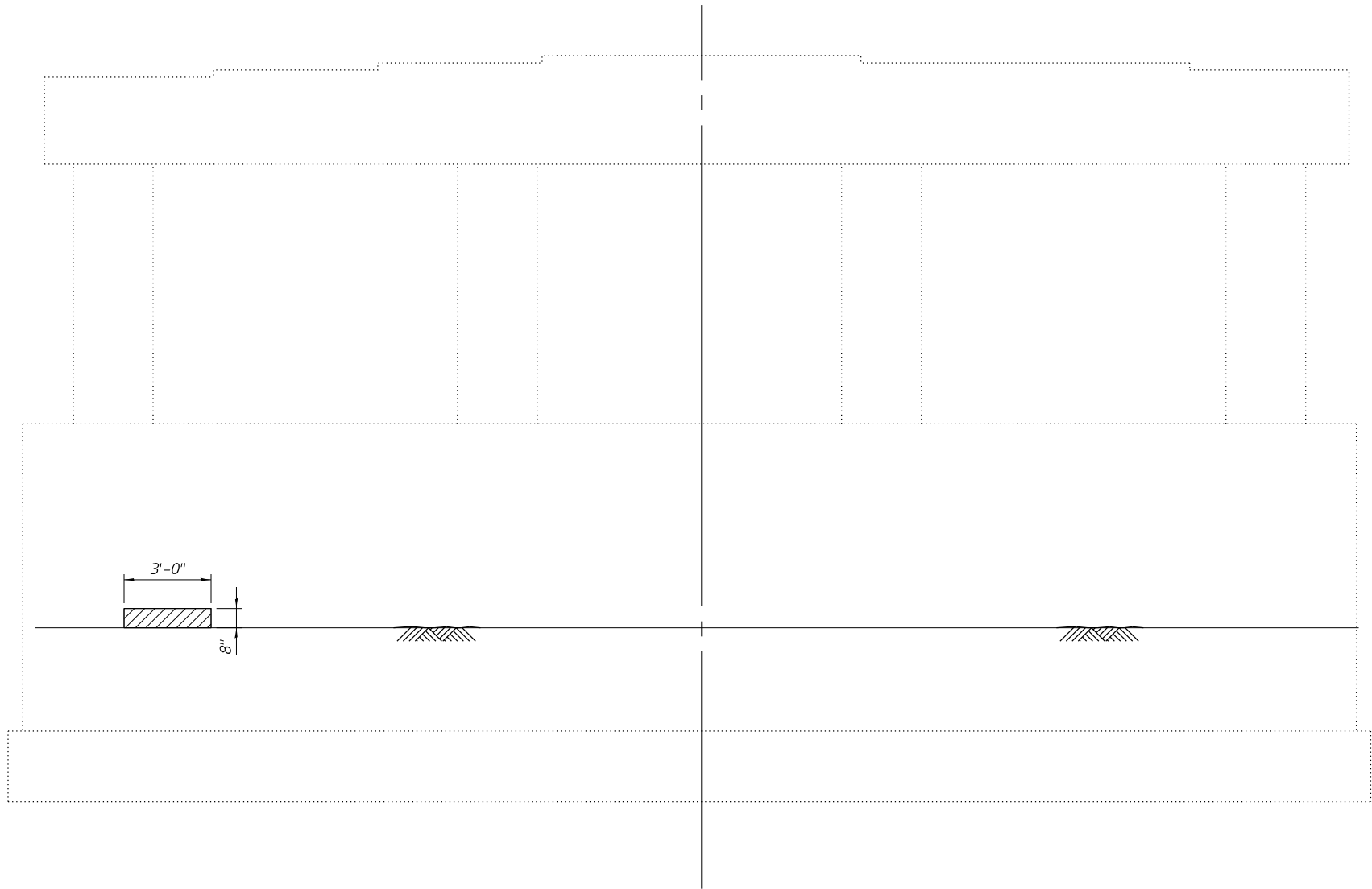
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PLOT DATE = 12/1/2020	CHECKED - MJJ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0021

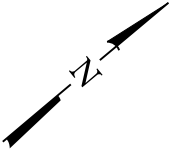
SHEET 12 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

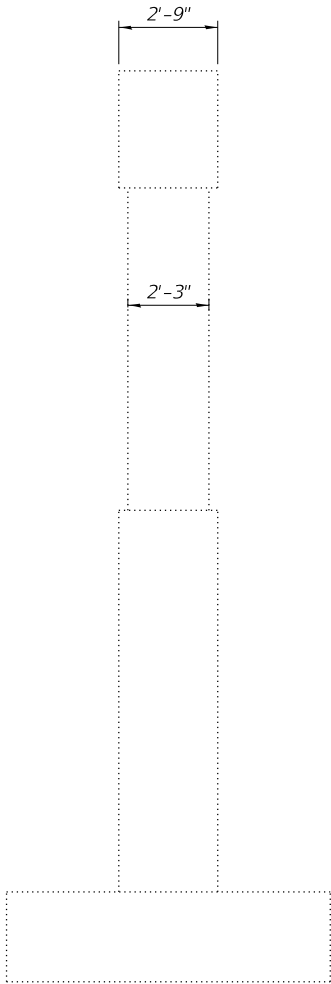


PIER 2 ELEVATION - REPAIR
(Looking West)

 - Structural Repair of Concrete
(Depth equal to or less than 5 inches)



PIER 2 FOOTING PLAN



END ELEVATION
(Looking North)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	3.0

MODEL: Sheet
FILE: TWM_P\2019\190388\W06_17A_Bridge_F5E614_CADD - DWG\4.4_Struct\0900021-0022\0900021-0022-68F54-013_Pier 2 Repair_Details.dwg



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LICENSE NO:
184-001220

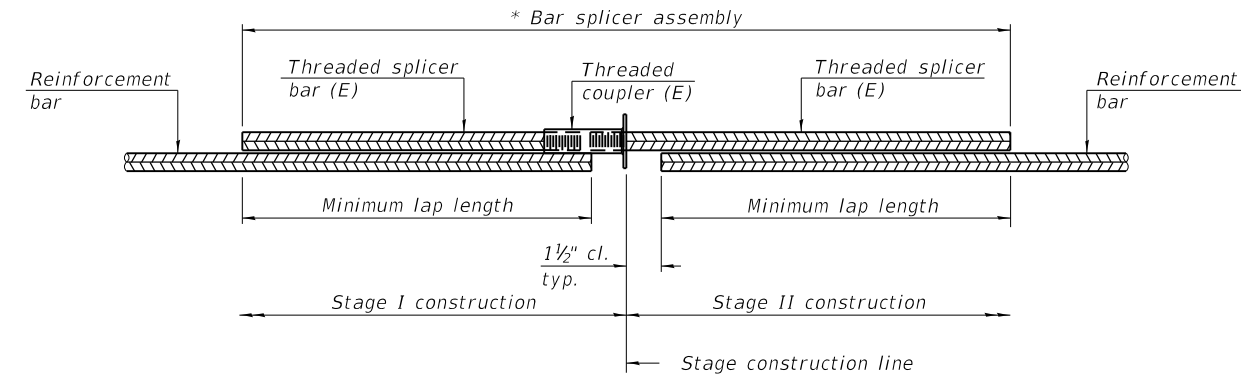
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PLOT SCALE = 0:2.0000 1" = 1 in.	DRAWN - NP	REVISED -
PLOT DATE = 12/1/2020	CHECKED - MJJ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 CONCRETE REPAIR DETAILS
STRUCTURE NO. 090-0022

SHEET 13 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	94
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

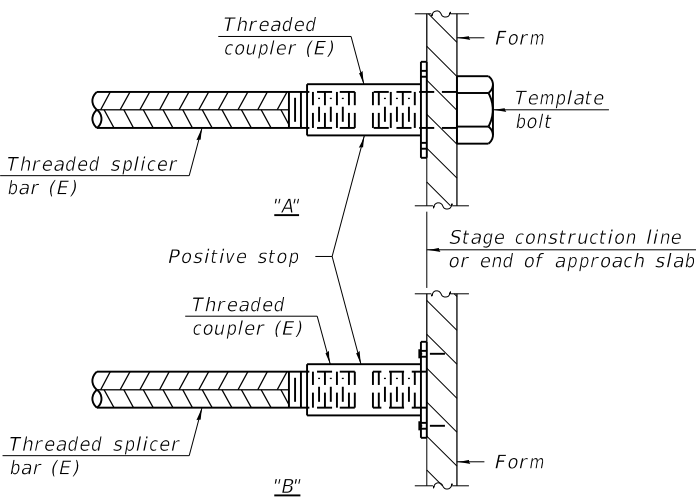


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

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

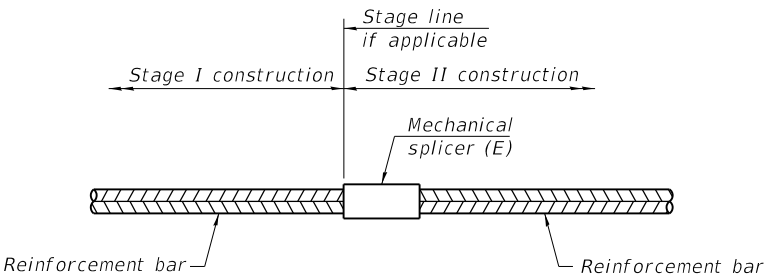
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	32	3'-6"
Abut. Hatch Block	#6	24	4'-0"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

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

MODEL: Default
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BSD-1

1-1-2020



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LICENSE NO:
184-001220

USER NAME = ckoltveit	DESIGNED - DRA	REVISED -
	CHECKED - CDK	REVISED -
PLOT SCALE = 0:2.0000 " = 1" / in.	DRAWN - DRA	REVISED -
PLOT DATE = 12/1/2020	CHECKED - CDK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 090-0021 & 090-0022

SHEET 14 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15[HB(1-4);VB;B]BP,BJR,BRR	TAZEWELL	192	95
CONTRACT NO. 68F54				
ILLINOIS FED. AID PROJECT				

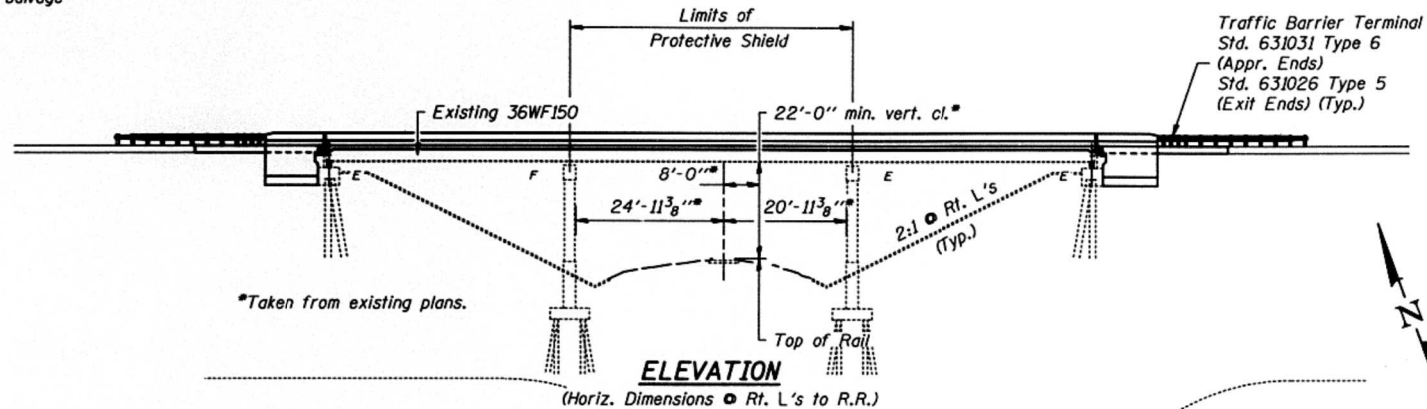
Bench Mark: Chiseled "L" S.W. wingwall S.N. 090-0021, Elev. 742.43

Existing Structures: S.N. 090-0021 & 090-0022 Built in 1961 as F.A.I. Rte. 74, Section 90-15VB at Sta. 644+27.11. Existing structures are 3-span reinforced concrete deck on steel WF beams supported on spill-thru pile bent abutments and pile supported multi-column piers. Each structure 35'-8" O.-O. deck, 178'-3" Bk.-Bk. abutments. Concrete deck to be removed and replaced. Traffic to be maintained utilizing cross overs.

No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.I. 74	90-15VB-DI-1	TAZEWELL	101	55
22 SHEETS				



STATION 644+27.11
REBUILT BY
STATE OF ILLINOIS
F.A.I. RT. 74 SECTION 90(15VB)-DI-1
F.A. PROJECT:
LOADING HS20 & ALT.
STR. NO. 090-0021

STATION 644+27.11
REBUILT BY
STATE OF ILLINOIS
F.A.I. RT. 74 SECTION 90(15VB)-DI-1
F.A. PROJECT:
LOADING HS20 & ALT.
STR. NO. 090-0022

NAME PLATE - E.B. LANES
See Std. 515001

NAME PLATE - W.B. LANES
See Std. 515001

Note:
Existing Name Plate is to be cleaned and
relocated next to the new Name Plate.
Included in cost of Name Plates.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Concrete Deck	Each	2		2
Concrete Removal	Cu. Yd.		45.2	45.2
Concrete Structures	Cu. Yd.		65.8	65.8
Concrete Superstructure	Cu. Yd.	432.7		432.7
Elastomeric Bearing Assembly Type I	Each	24		24
Neoprene Expansion Joint 2"	Foot	200		200
Bridge Deck Grooving	Sq. Yd.	1324		1324
Furnishing and Erecting Structural Steel	Pound	11960		11960
Stud Shear Connectors	Each	6156		6156
Reinforcement Bars, Epoxy Coated	Pound	99800	9360	109160
Name Plates	Each	2		2
Drainage Scuppers	Each	4		4
Protective Coat	Sq. Yd.	1727		1727
Jack and Remove Existing Bearings	Each	24		24
Structure Excavation	Cu. Yd.		201.4	201.4
Structural Steel Removal	Pound	7060		7060
Slopewall Removal	Sq. Yd.		304.1	304.1
Fabric Formed Concrete Revetment Mats	Sq. Yd.		272.0	272.0
Bridge Seat Sealer	Sq. Ft.		494	494
Protective Shield	Sq. Yd.	557		557
Slope Wall 4"	Sq. Yd.		166.0	166.0
Controlled Low Strength Material	Cu. Yd.		1.0	1.0

LOADING HS20 & ALT.

Allow 25 psf for future wearing surface.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 and 1998 Interims
1995 Seismic Retrofitting Guidelines for
Highway Bridges FHWA/RD-94/052

DESIGN STRESSES

FIELD UNITS (Existing Structure)

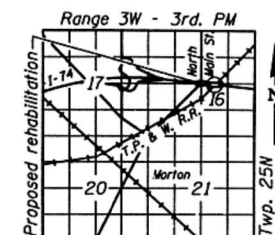
$f_c = 1,400$ psi
 $f_s = 20,000$ psi (reinforcement)
 $f_y = 33,000$ psi (structural steel)
 $n = 10$

FIELD UNITS (New Construction)

$f_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 36,000$ psi M270 GR36 (structural steel)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 4.3%g
Site Coefficient (S) = 1.2



LOCATION SKETCH

GENERAL PLAN
I-74 OVER
T.P. & W. RAILROAD
F.A.I. ROUTE 74 - SECTION 90(15VB)-I-1
TAZEWELL COUNTY
STATION 644+27.11
STRUCTURE NO. 090-0021 (E.B.)
STRUCTURE NO. 090-0022 (W.B.)

DESIGNED *Nicholas J. Lovel*
CHECKED *Chad J. Fusting*
DRAWN *Michael R. Gillette*
CHECKED *NJS CJP*

January 26, 2000
EXAMINED *Thomas J. Dwyer*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



FOR INFORMATION ONLY

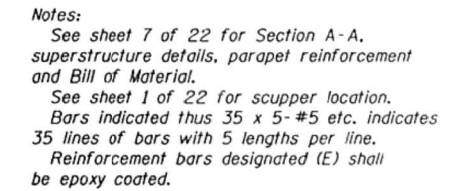
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN AND ELEVATION
SN 090-0021 & 090-0022

SHEET 15 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15VB(1-4)-VB(B)BP,BJR,BRR	TAZEWELL	192	96
CONTRACT NO. 68F54				

ILLINOIS FED. AID PROJECT



- Order $a(E)$ & $a_1(E)$ bars full length.
Cut to fit skew and use remainder
of bars in opposite end.

39'-2" o. to o. deck

36'-0" face to face parapets

1'-7" 2" 7 3/4" 2 1/4" 6'-0" 12'-0" 12'-0" 6'-0" 2' 1/4" 7 3/4" 2"

slope 1/4"/' slope 3/16"/' slope 3/16"/' slope 1/4"/'

Total Drop = 3 3/4" Total Drop = 3 3/4"

d(E) d2(E) d3(E) b1(E) a2(E) d(E) a1(E) 7 1/2" Slab 2 1/4" cl. (± 1/4") 1" cl. 7 1/2" 6 x 6-#5 b2(E) bars at 12" cts. (Typ. btwn. beams) 9 1/2" 9 1/2"

℄ Rdwy. P.G.

3'-1 1/2" 5 existing beam spaces at 6'-7" = 32'-11" 3'-1 1/2"

1'-9" 9" 11 1/2" 3"

NEAR MIDSPAN

FOR INFORMATION ONLY

DESIGNED	Nicholas J. Sovell
CHECKED	Chad Fuesting
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

January 26, 2000

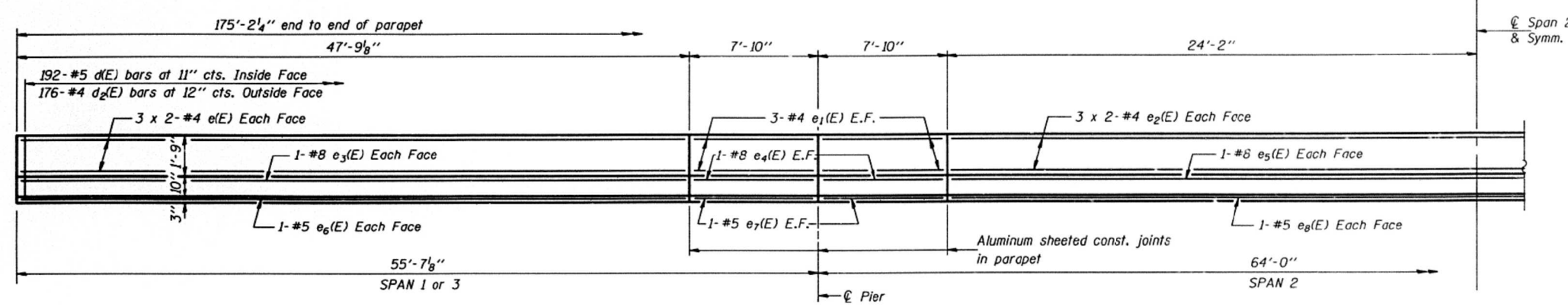
EXAMINED Thomas J. Donagallo
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES & STRUCTURES

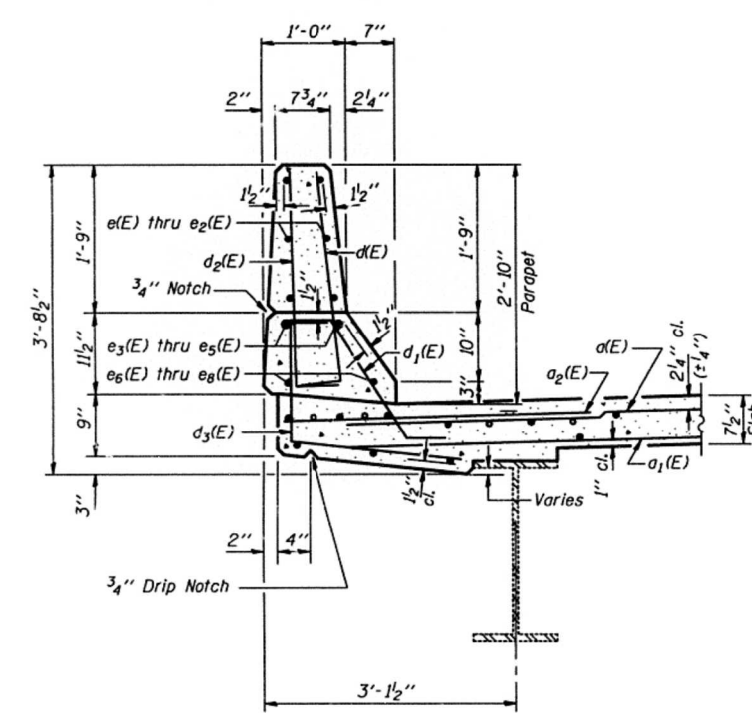
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	90 (15VB-1) I-1	TAZEWELL	101	61
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 7
22 SHEETS

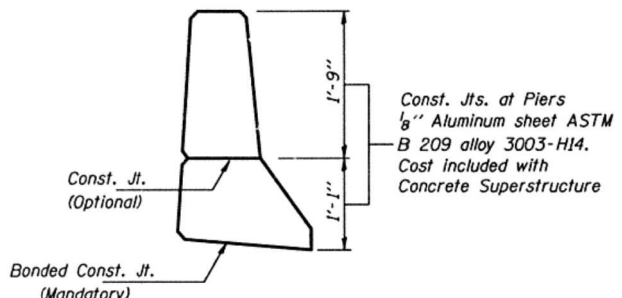


HALF INSIDE ELEVATION OF PARAPET

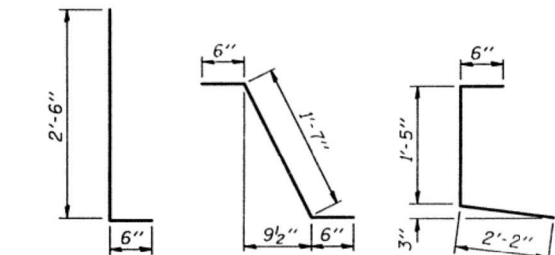


SECTION THRU PARAPET

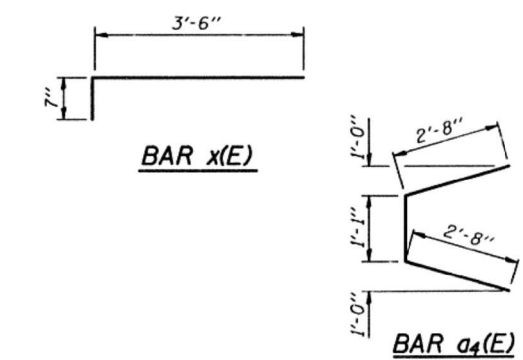
PARAPET
MIN. BAR LAPS
#4 bar = 1'-4"



PARAPET JOINT DETAILS

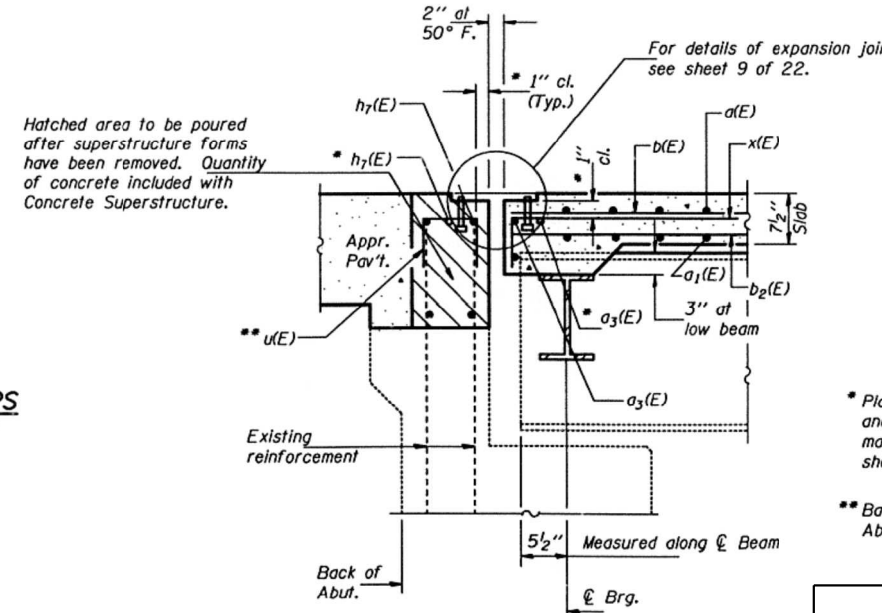


BARS d(E) & d2(E) BAR d1(E) BAR d3(E)



BAR x(E)

BAR a4(E)



SECTION A-A

(Dimensions are at Rt. L's except as shown)

FOR INFORMATION ONLY

TWO SUPERSTRUCTURES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	604	#5	37'-2"	—
a1(E)	470	#5	37'-8"	—
a2(E)	604	#6	4'-0"	—
a3(E)	16	#5	25'-0"	—
a4(E)	8	#5	6'-5"	—
a5(E)	32	#5	2'-0"	—
b(E)	420	#5	36'-5"	—
b1(E)	156	#6	32'-6"	—
b2(E)	432	#5	30'-7"	—
d(E)	768	#5	3'-0"	—
d1(E)	768	#5	2'-7"	—
d2(E)	704	#4	3'-0"	—
d3(E)	704	#4	4'-1"	—
e(E)	96	#4	24'-5"	—
e1(E)	96	#4	7'-7"	—
e2(E)	48	#4	24'-8"	—
e3(E)	16	#8	47'-6"	—
e4(E)	32	#8	7'-7"	—
e5(E)	8	#8	48'-1"	—
e6(E)	16	#5	47'-6"	—
e7(E)	32	#5	7'-7"	—
e8(E)	8	#5	48'-1"	—
x(E)	144	#5	4'-1"	—
Reinforcement Bars, Epoxy Coated		Pound	99800	
Concrete Superstructure		Cu. Yd.	432.7	

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 36 x 5-#5 etc. indicates 36 line of bars with 5 lengths per line.

SUPERSTRUCTURE DETAILS
F.A.I. RTE. 74 - SEC. 90(15VB-1)I-1
TAZEWELL COUNTY
STATION 644+27.11

DESIGNED	Nicholas J. Savell	January 26, 2000
CHECKED	Chad Fuesting	EXAMINED
DRAWN	Michael R. Gillette	PASSED
CHECKED	C.J.F. N.J.S.	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SUPERSTRUCTURE DETAILS
SN 090-0021 & 090-0022

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4)VB;B)BP,BJR,BRR	TAZEWELL	192	98
				CONTRACT NO. 68F54

MODEL: Default
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DATE: 12/11/2020



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IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME	= ckolteit
PLOT SCALE	= 0.2:0.0000 " = 1" / in.
PLOT DATE	= 12/11/2020

DESIGNED	- NP
CHECKED	- ALN
DRAWN	- NP
CHECKED	- ALN

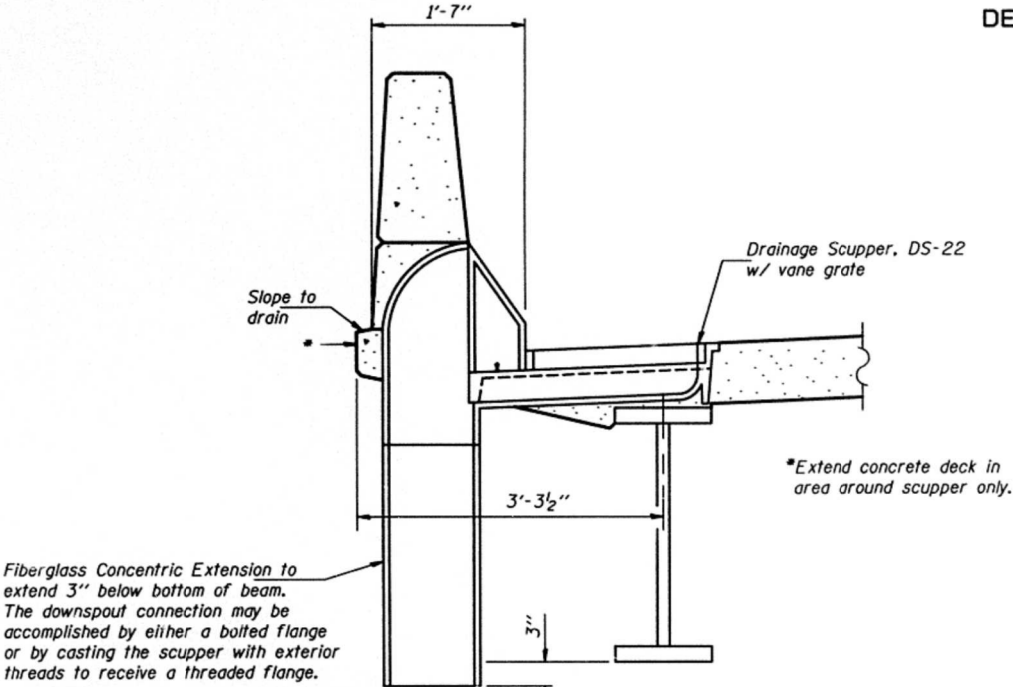
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REVISED	-
REVISED	-

SHEET 17 OF 30 SHEETS

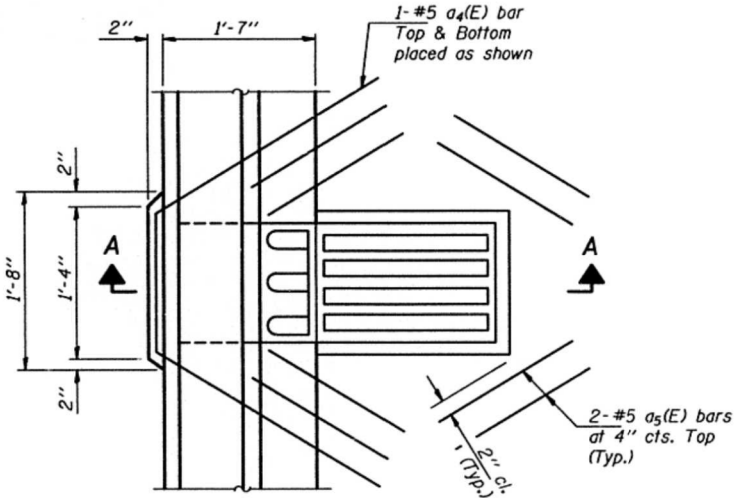
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A.I. 74	90(15VB-1) 1-1	TAZEWELL	101	62	22 SHEETS
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT			

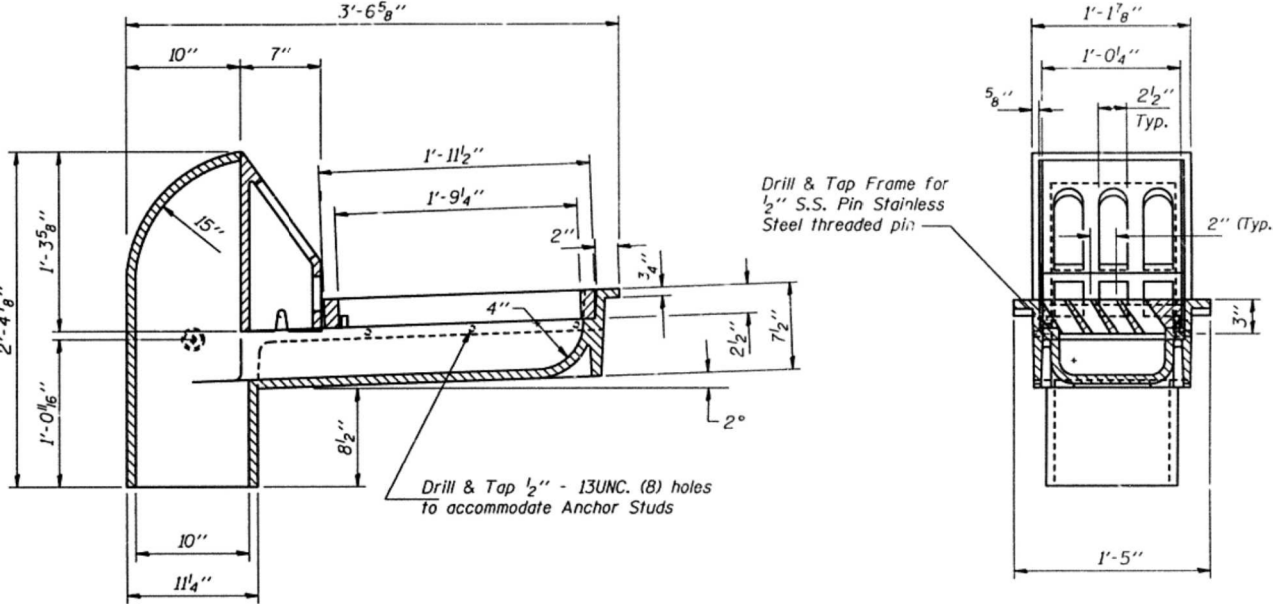


SECTION A-A



PLAN

Note: Reinforcement bars designated (E) shall be epoxy coated.
Cut longitudinal reinforcement to clear drainage scuppers.
Bars billed with Bill of Material shown on sheet 7 of 22.



DRAINAGE SCUPPER DETAIL

Notes:
All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
Bolts and nuts shall conform to the requirements of ASTM A 307.
All bolts and washers shall be galvanized according to AASHTO M 232.
As an alternate bolts and washers may be stainless steel conforming to the requirements of ASTM A 193M, Type 304.
Cost of the grate, frame, downspout, bolts and washers including complete installation of the scupper will be paid for at the unit bid price each for Drainage Scuppers.
Structural steel weldments of equal sections may be substituted for cast iron. Details shall be submitted to the Engineer for approval.

FOR INFORMATION ONLY

DRAINAGE SCUPPER DETAILS
F.A.I. RTE. 74 - SEC. 90(15VB-1)I-1
TAZEWELL COUNTY
STATION 644+27.11

DESIGNED	Nicholas J. Sovell
CHECKED	Chad Fuesting
DRAWN	Michael R. Gillette
CHECKED	C.J.F. N.J.S.

January 26, 2000
EXAMINED *Thomas J. Damagall*
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = ckoltveit
PLOT SCALE = 0.2:0.0000 1" = 1 in.
PLOT DATE = 12/1/2020

DESIGNED	-	NP
CHECKED	-	ALN
DRAWN	-	NP
CHECKED	-	ALN

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE SCUPPER DETAILS
SN 090-0021 & 090-0022

SHEET 18 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-15(HB(1-4);VB;B)BP,BJR,BRR	TAZEWELL	192	99
CONTRACT NO. 68F54				

ILLINOIS FED. AID PROJECT

