

024

11-09-2018 LETTING ITEM 024

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* 55 + 1 = 56 TOTAL SHEETS

P.A.T. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	1
		FABRIS	CONTRACT NO. 72K66	

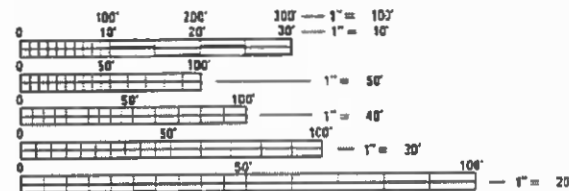
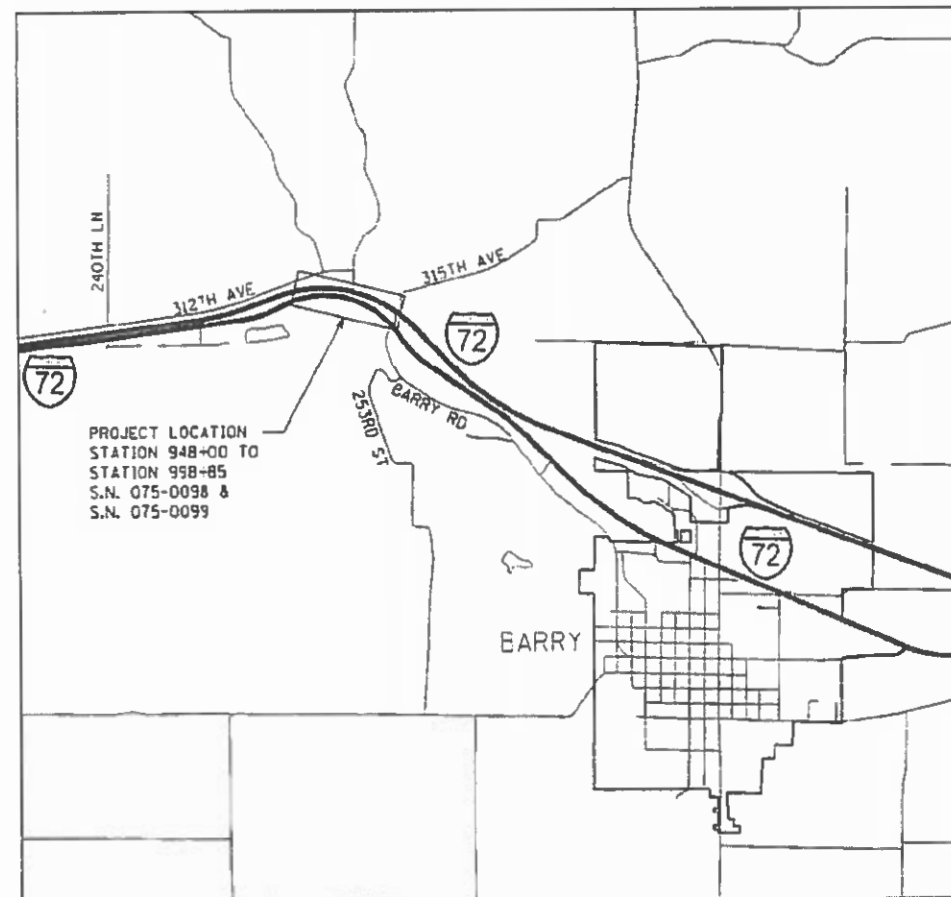
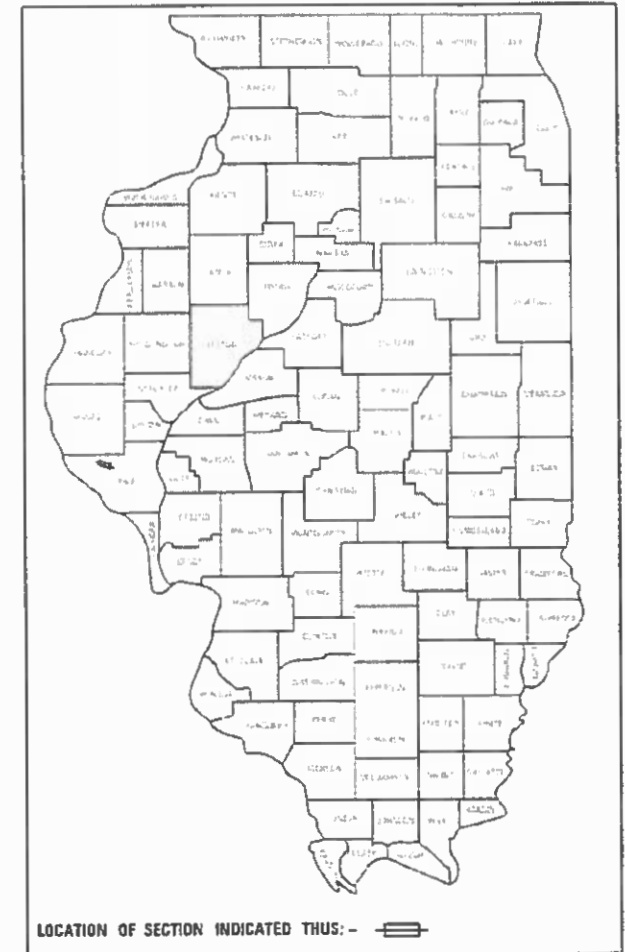
INDEX OF SHEETS

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- 26 WIDTH RESTRICTION SIGNING
- 27-55A BRIDGE PLANS

# PROPOSED HIGHWAY PLANS

FAI 72 (I 72)  
SECTION (75-3) BJR  
PROJECT NHPP-WVJH(528)  
BRIDGE JOINT REPAIR  
PIKE COUNTY

C-96-098-18



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

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

PROJECT ENGINEER: BRANDON DUDLEY  
PROJECT MANAGER: CLOYD JACK

CONTRACT NO. 72K66

GROSS LENGTH = x.xx FT. = x.xxx MILE  
NET LENGTH = x.xx FT. = x.xxx MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 14 August 2019  
*[Signature]*  
REGIONAL ENGINEER

Oct 5 2018  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 5 2018  
*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

# GENERAL NOTES

- ① THE THICKNESS OF BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- ② ANY REFERENCE TO A STANDARD IN THE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THE PLANS.
- ③ UNLESS NOTED OTHERWISE, STATIONS AND OFFSETS REFER TO CENTERLINE OF PROJECT.
- ④ IN ADDITION TO FIELD SURVEYS AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATIONS DUE TO A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- ⑤ THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS, AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS, CONTRACT JLL.L.E. 1-800-892-0123 FOR UTILITY LOCATION AT MINIMUM 48 HOURS NOTICE.
- ⑥ ANY EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING SUCH SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
- ⑦ NO CONSTRUCTION IS TO BE DONE WITHIN FIFTY (50) FEET OF ANY RAILROAD CROSSING WITHOUT OBTAINING THE PROPER RAILROAD PROTECTIVE LIABILITY INSURANCE.
- ⑧ CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AND EROSION PROTECTION FOR THE DURATION OF THIS PROJECT.
- ⑨ THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 BUREAU OF OPERATIONS AT (217) 785-5312 THREE WEEKS PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL.
- ⑩ THE CONTRACTOR WILL BE RESPONSIBLE FOR THE TRAFFIC CONTROL DEVICES AT ALL TIMES DURING CONSTRUCTION ACTIVITIES AND SHALL COORDINATE THE ITEMS OF WORK IN ORDER TO KEEP HAZARDOUS TRAFFIC INCONVENIENCES TO A MINIMUM.
- ⑪ THE DISTRICT 6 BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS (PH: 217-785-5312).

## HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 70101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
- 70106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 70100-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 70102-12 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
- 70106-11 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701901-07 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

## MIX REQUIREMENTS

Locations:	I-72
Mixture Uses:	HMA Surface
PG:	PG 64-22
Design Air Voids:	4.0% @ N90
Mixture Composition:	IL 9.5
Friction Aggregate:	Mix "D"
Quality Management:	QC/QA
Sublot Size:	N/A
Locations:	I-72
Mixture Uses:	HMA SHOULDER (BOTTOM LIFT) - 8" LIFT
PG:	PG 64-22
Design Air Voids:	4.0% @ N50
Mixture Composition:	IL 19.0
Friction Aggregate:	N/A
Quality Management:	QC/QA
Sublot Size:	N/A
Locations:	I-72
Mixture Uses:	HMA Shoulder (TOP LIFT) - 2" LIFT
PG:	PG 64-22
Design Air Voids:	4.0% @ N50
Mixture Composition:	IL 9.5
Friction Aggregate:	Mix "C"
Quality Management:	QC/QA
Sublot Size:	N/A

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6

EXAMINED	<i>July 26th 2018</i>	20	18
	<i>John C. Williams</i>	ENGINEER OF OPERATIONS	
EXAMINED	<i>July 27th 2018</i>	20	18
	<i>David R. Williams</i>	ENGINEER OF PROJECT IMPLEMENTATION	
EXAMINED	<i>July 17th 2018</i>	20	18
	<i>John E. Meyer</i>	ENGINEER OF PROGRAM DEVELOPMENT	

FILE NAME * G:\OPERATIONS\B\Spec\B-Std\Spec\Plan_CAD\72166	USER NAME * jmevca	DESIGNED * BISHOP & O'NEAL	REVISIONS CHECKED * DATE	REVISIONS REVISOR DATE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: SHEET 2 OF 55 SHEETS STA. TO STA.	GENERAL NOTES, STANDARDS, SIGNATURES, & MIX REQUIREMENTS	TOTAL SHEET NO. 55	SHEET NO. 2
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				BRIDGE 0013	BRIDGE 0013
				S.N. 075-0098	S.N. 075-0099
				90% FED	10% STATE
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	120	60	60
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	30	15	15
42001300	PROTECTIVE COAT	SQ YD	113.4	56.7	56.7
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	268	134	134
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	208	100	108
50102400	CONCRETE REMOVAL	CU YD	37.2	18.6	18.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	37.2	18.6	18.6
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5080	2540	2540
50800515	BAR SPLICERS	EACH	88	44	44
52000110	PREFORMED JOINT STRIP SEAL	FOOT	84	42	42
52000216	FINGER PLATE EXPANSION JOINT, 5"	FOOT	80	40	40
52000224	FINGER PLATE EXPANSION JOINT, 7"	FOOT	80	40	40
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	164	82	82
67100100	MOBILIZATION	L SUM	1	0.5	0.5

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				BRIDGE 0013	BRIDGE 0013
				S.N. 075-0098	S.N. 075-0099
				90% FED	10% STATE
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1	0.5	0.5
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.5	0.5
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3450	1725	1725
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3450	1725	1725
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	11775	6016	5759
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	138	69	69
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	4906	2506	2400
X4820110	HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)	SQ YD	3184	1535	1649
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	60	30	30
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0.5	0.5

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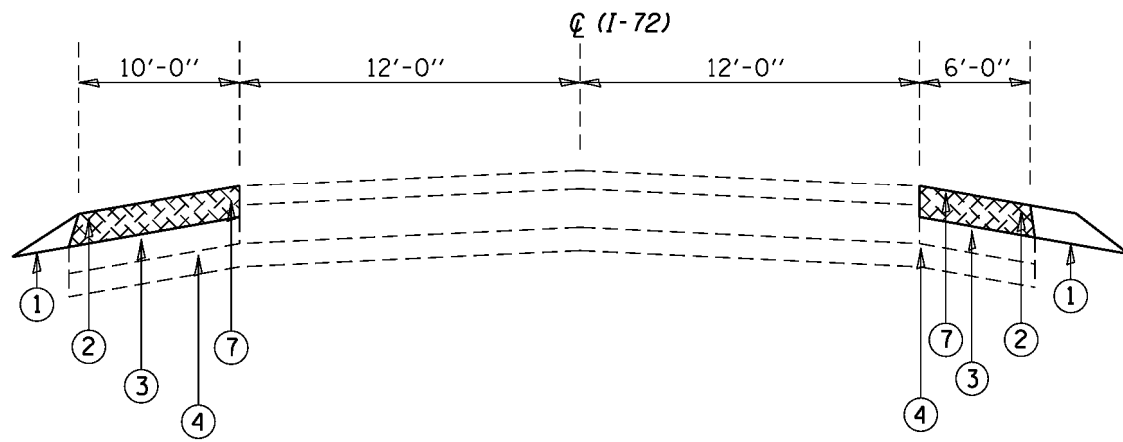
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

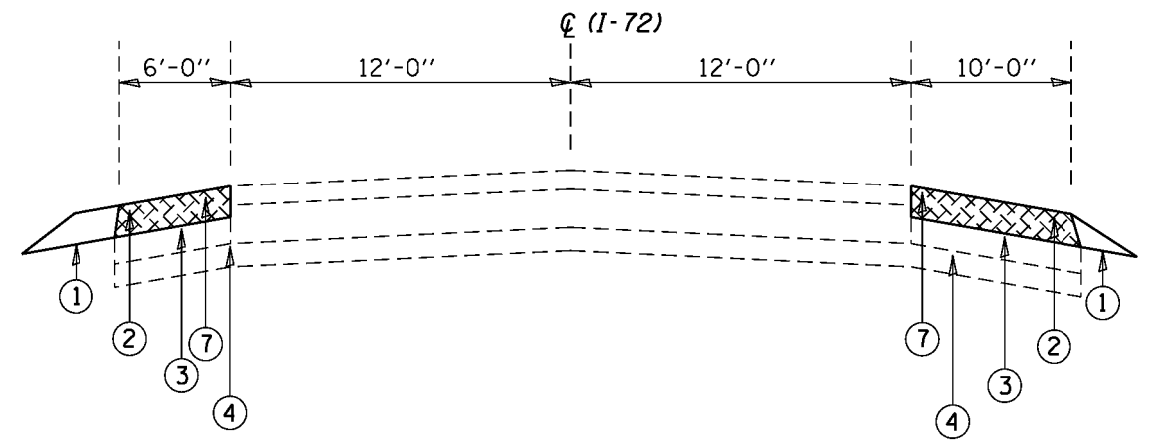
**SUMMARY OF QUANTITIES**

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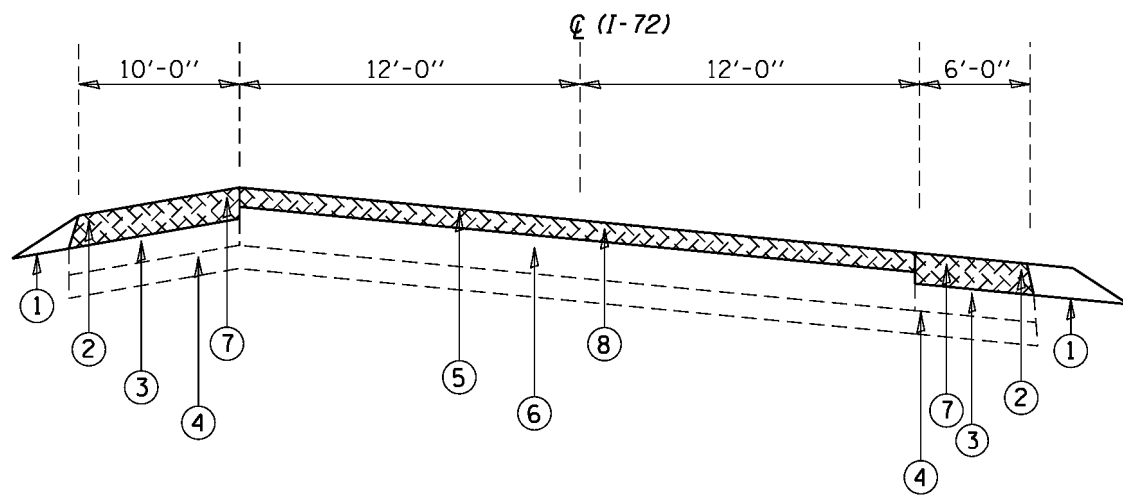
F A I R T E	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	3
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



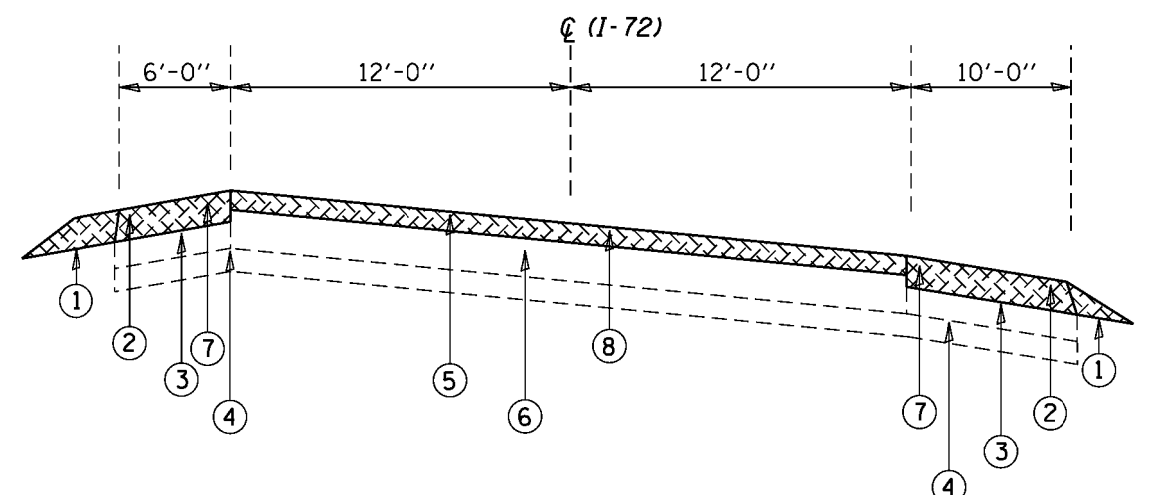
**WESTBOUND**  
STA. 966+00 TO 988+85



**EASTBOUND**  
STA. 960+65.3 TO 983+00



**WESTBOUND**  
STA. 967+30 TO 967+80.30



**EASTBOUND**  
STA. 967+30 TO 967+80.4

**LEGEND**

- ① PR AGGREGATE WEDGE SHOULDERS, TYPE B
- ② PR SHOULDER REMOVAL AND REPLACEMENT, 10"
- ③ EX LIME MODIFIED SOIL OR SUB-BASE GRANULAR MATERIAL, TYPE C
- ④ EX 6" SUB-BASE GRANULAR MATERIAL
- ⑤ PR BITUMINOUS SURFACE COURSE, 2"
- ⑥ EX BITUMINOUS BINDER COURSE, 13 1/2"
- ⑦ PR SHOULDER REMOVAL, 10"
- ⑧ PR PAVEMENT REMOVAL, 2"

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PLOT DATE = 8/14/2018	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE: _____	SHEET 4 OF 55 SHEETS STA. _____ TO STA. _____

F.A.I. RTE. 72	SECTION (75-3) BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72K66	

X4820110: HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)								
TRAVEL DIRECTION	STATION	TO	STATION	DEPTH INCHES	LENGTH FOOT	WIDTH FOOT	AREA SQUARE FOOT	HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT
								X4820110 SQ YARDS
EB	STA 960+65.30	TO	STA 967+80.30	10	715	10	7150	794
EB	STA 960+65.30	TO	STA 967+80.30	10	715	6	4290	477
EB	BRIDGE OMISSION							
EB	STA 981+51.80	TO	STA 983+00.00	10	148	10	1482	165
EB	STA 981+51.80	TO	STA 983+00.00	10	148	6	889	99
WB	STA 988+85.00	TO	STA 981+37.70	10	747	10	7473	830
WB	STA 988+85.00	TO	STA 981+37.70	10	747	6	4484	498
WB	BRIDGE OMISSION							
WB	STA 967+80.30	TO	STA 966+00.00	10	180	10	1803	200
WB	STA 967+80.30	TO	STA 966+00.00	10	180	6	1082	120
<b>TOTALS</b>							<b>28654</b>	<b>3184</b>

48102100: AGGREGATE WEDGE SHOULDER, TYPE B								
TRAVEL DIRECTION	STATION	TO	STATION	LENGTH	INSIDE WEDGE THICKNESS	OUTSIDE WEDGE THICKNESS	AGG SHOULDER WIDTH	AGGREGATE WEDGE SHOULDER, TYPE B
								48102100 TON
				FOOT	INCH	INCH	FOOT	
EB	STA 960+65.30	TO	STA 967+80.30	1430	3	1.5	4	82
EB	BRIDGE OMISSION							
EB	STA 981+51.80	TO	STA 983+00.00	296	3	1.5	4	18
WB	STA 988+85.00	TO	STA 981+37.70	1495	3	1.5	4	86
WB	BRIDGE OMISSION							
WB	STA 967+80.30	TO	STA 966+00.00	361	3	1.5	4	22
<b>TOTALS</b>				<b>3583</b>				<b>208</b>

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PLOT DATE = 8/14/2018	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE</b>	
SCALE: _____	SHEET 5 OF 55 SHEETS STA. _____ TO STA. _____

F.A.I. RTE. 72	SECTION (75-3) BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 5
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	

**40600290: BITUMINOUS MATERIALS (TACK COAT)**

TRAVEL DIRECTION	STATION	TO	STATION	LENGTH	WIDTH	AREA	APPLICATION RATE	BITUMINOUS MATERIALS (TACK COAT)
				FOOT	FOOT	SQUARE FOOT		40600290 POUND
EB	STA 967+30.30	TO	STA 967+80.30	50	24	1200	0.05	60
WB	STA 967+30.30	TO	STA 967+80.30	50	24	1200	0.05	60
<b>TOTALS</b>								<b>120</b>

**40603345: HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90**

TRAVEL DIRECTION	STATION	TO	STATION	LENGTH	WIDTH	AREA	DEPTH	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90
				FOOT	FOOT	SQUARE FOOT	INCHES	40603345 TON
EB	STA 967+30.30	TO	STA 967+80.30	50	24	1200	2	15
WB	STA 967+30.30	TO	STA 967+80.30	50	24	1200	2	15
<b>TOTALS</b>								<b>30</b>

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PLOT DATE = 8/14/2018	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE</b>	
SCALE: _____	SHEET <u>6</u> OF <u>55</u> SHEETS STA. _____ TO STA. _____

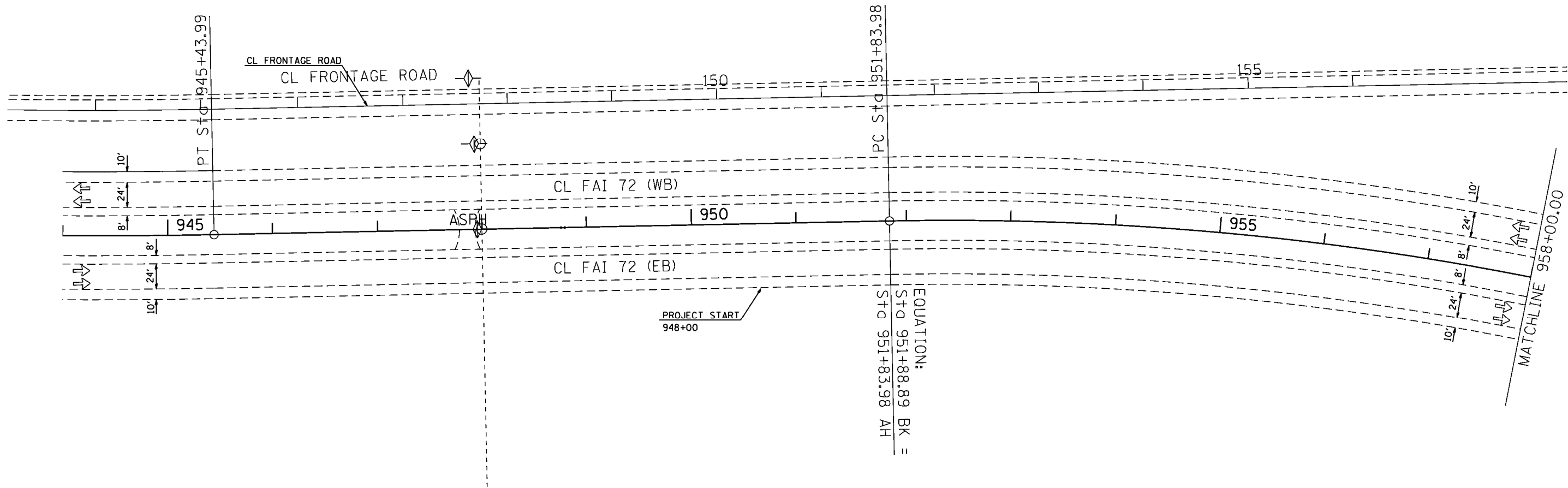
F.A.I. RTE. <u>72</u>	SECTION <u>(75-3) BJR</u>	COUNTY <u>PIKE</u>	TOTAL SHEETS <u>55</u>	SHEET NO. <u>6</u>
			CONTRACT NO. <u>72K66</u>	
		ILLINOIS FED. AID PROJECT		

X0327979: PAVEMENT MARKING REMOVAL - GRINDING							
TRAVEL DIRECTION	STATION	TO	STATION	OFFSET	PAVEMENT MARKING STRIPE THICKNESS		PAVEMENT MARKING REMOVAL - GRINDING
					FOOT	INCH	X0327979 SQ FT
EB	STA 966+47.80	TO	STA 981+51.80	LT	3008	5	1253
EB	STA 966+47.80	TO	STA 981+51.80	RT	3008	5	1253
WB	STA 982+20.00	TO	STA 967+80.30	LT	2879	5	1200
WB	STA 982+20.00	TO	STA 967+80.30	RT	2879	5	1200
<b>TOTALS</b>							<b>4906</b>

78009005: MODIFIED URETHANE PAVEMENT MARKING - LINE 5"						
TRAVEL DIRECTION	STATION	TO	STATION	OFFSET	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	
					FOOT	SQ FT
EB	STA 966+47.80	TO	STA 981+51.80	LT	3008	3008
EB	STA 966+47.80	TO	STA 981+51.80	RT	3008	3008
WB	STA 982+20.00	TO	STA 967+80.30	LT	2879	2879
WB	STA 982+20.00	TO	STA 967+80.30	RT	2879	2879
<b>TOTALS</b>						<b>11775</b>

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PLOT SCALE = 100.00' / in	CHECKED - _____	REVISED - _____				SCALE: _____	SHEET 7 OF 55 SHEETS	STA. _____	TO STA. _____	PIKE _____
PLOT DATE = 8/14/2018	DATE - _____	REVISED - _____		CONTRACT NO. 72K66						
								ILLINOIS FED. AID PROJECT		



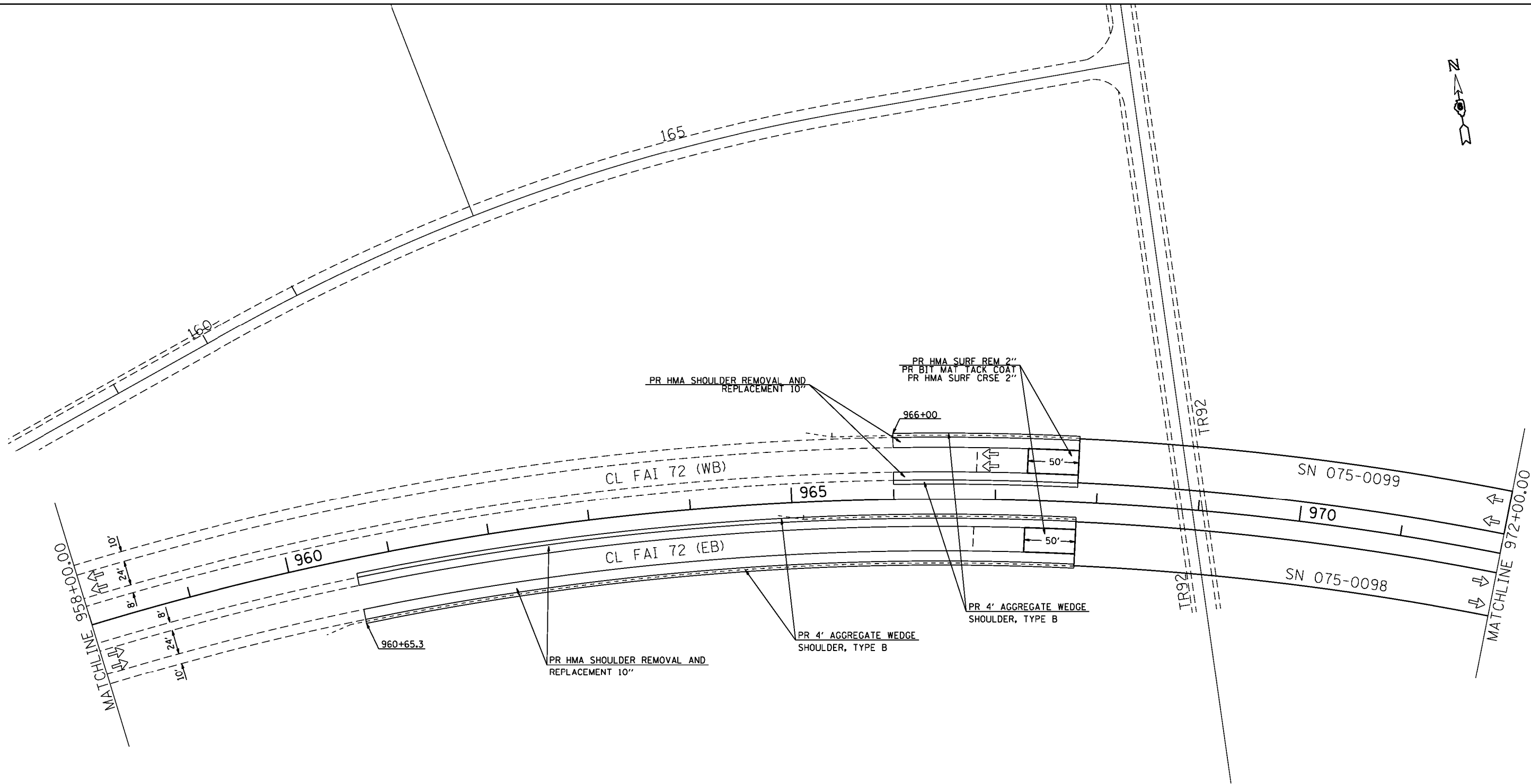
EQUATION:  
 St.d 951+88.89 BK =  
 St.d 951+83.98 AH

NOTE:  
 SEE SCHEDULES FOR PROPOSED  
 PAVEMENT MARKING INFORMATION.

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	DRAWN - _____	REVISED - _____		SCALE: _____	SHEET 8 OF 55 SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT
CHECKED - _____	REVISED - _____									
DATE - _____	REVISED - _____									





NOTE:  
SEE SCHEDULES FOR PROPOSED  
PAVEMENT MARKING INFORMATION.

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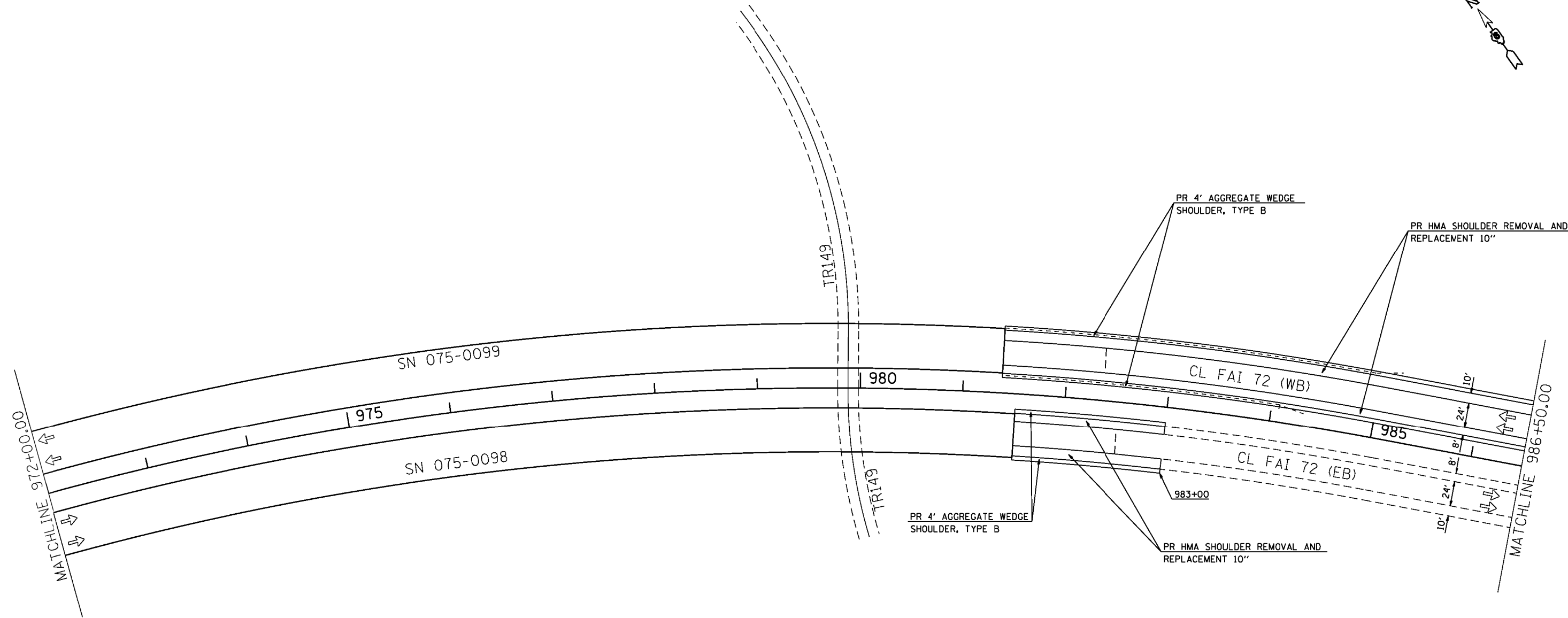
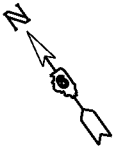
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PLOT DATE = 8/14/2018	DATE - _____	REVISIONS - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET  
FAI 72 (I 72)**

SCALE: \_\_\_\_\_ SHEET 9 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	9
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



NOTE:  
SEE SCHEDULES FOR PROPOSED  
PAVEMENT MARKING INFORMATION.

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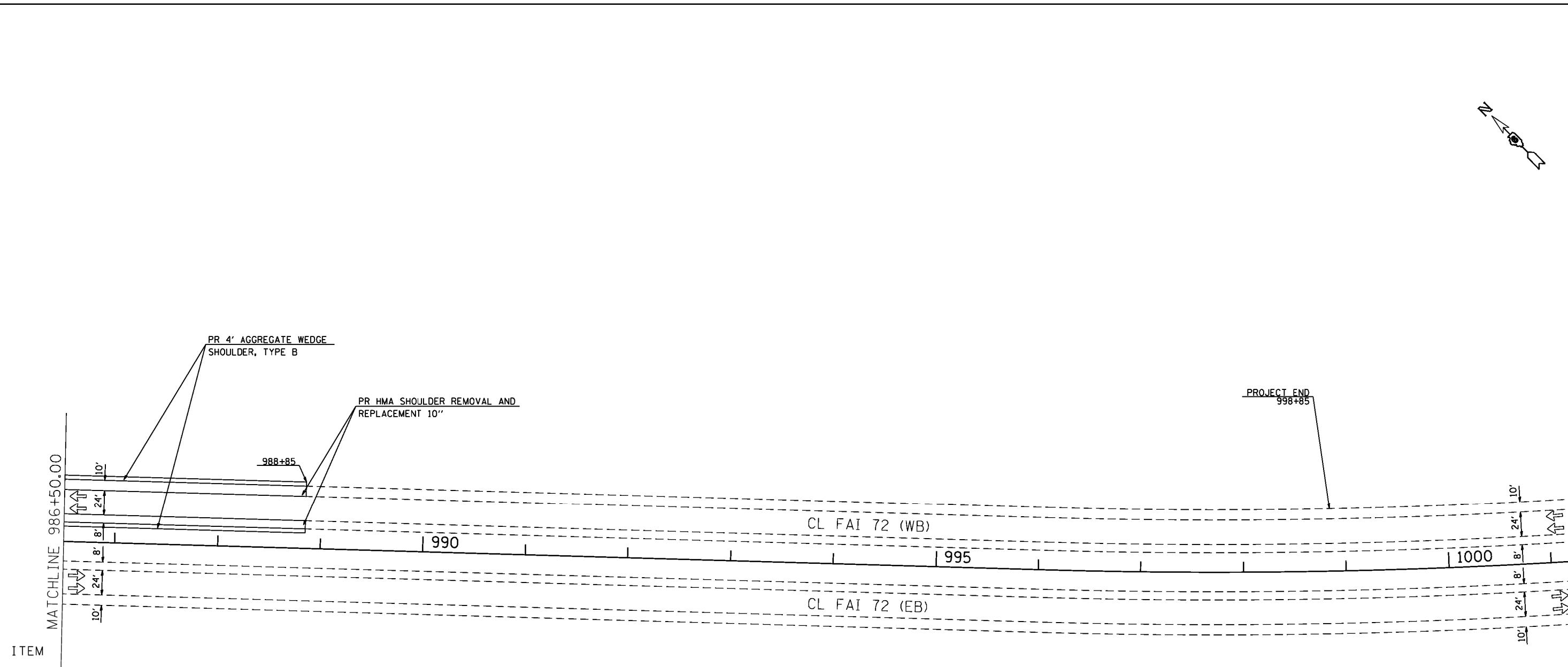
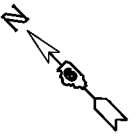
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PLOT SCALE = 100.00' / in	CHECKED - _____	REVISED - _____
PLOT DATE = 8/14/2018	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET  
FAI 72 (1 72)**

SCALE: \_\_\_\_\_ SHEET 10 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

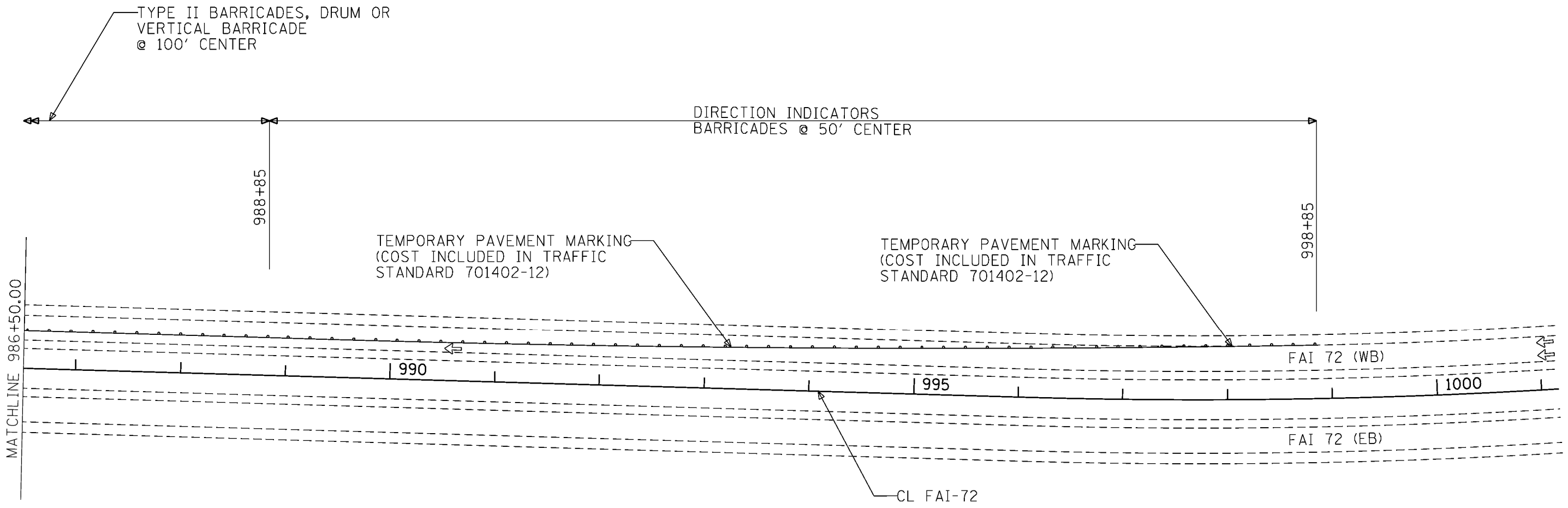
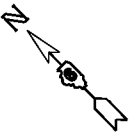
F.A.I. RTE. 72	SECTION (75-3) BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 10
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



NOTE:  
SEE SCHEDULES FOR PROPOSED  
PAVEMENT MARKING INFORMATION.

MODEL: Default  
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ITEM	USER NAME = jackca	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEET FAI 72 (I 72)</b>		F.A.I. RTE. = 72	SECTION = (75-3) BJR	COUNTY = PIKE	TOTAL SHEETS = 55	SHEET NO. = 11
	PLOT SCALE = 100.00' / in	CHECKED - _____	REVISED - _____				CONTRACT NO. 72K66				
PLOT DATE = 8/14/2018	DATE - _____	REVISED - _____	SCALE: _____		SHEET 11 OF 55 SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT				



**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**

REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

MODEL: Default  
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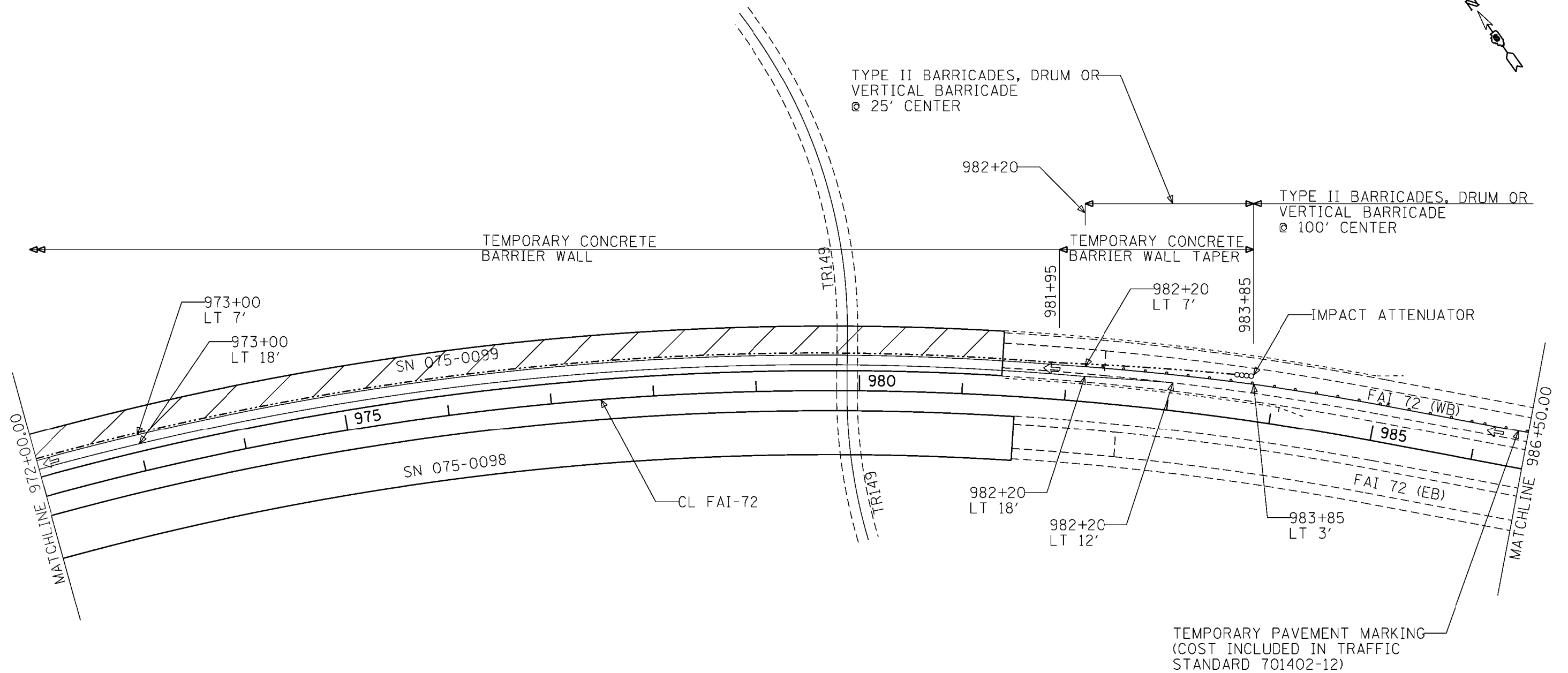
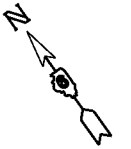
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	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-72 WB TRAFFIC CONTROL PLAN  
STAGE 1**

SCALE: \_\_\_\_\_ SHEET 12 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	12
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**

REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

LT AND RT OFFSETS ARE BASED ON ROAD AND BRIDGE CENTERLINE

MODEL: Default  
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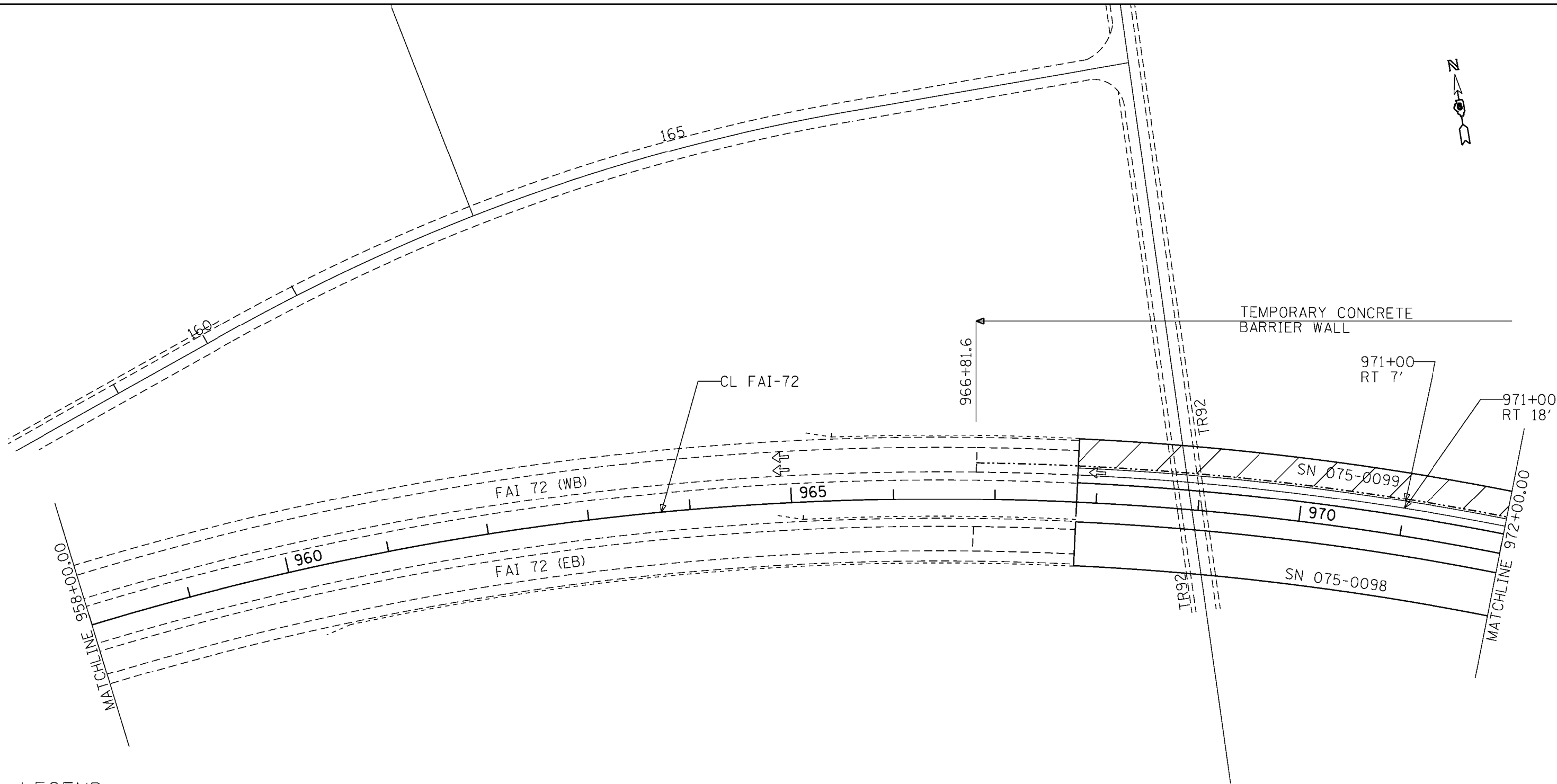
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PLOT DATE = 8/14/2018	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-72 WB TRAFFIC CONTROL PLAN  
STAGE 1**

SCALE: \_\_\_\_\_ SHEET 13 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	13
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**  
 REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER  
 LT AND RT OFFSETS ARE BASED ON ROAD AND BRIDGE CENTERLINE

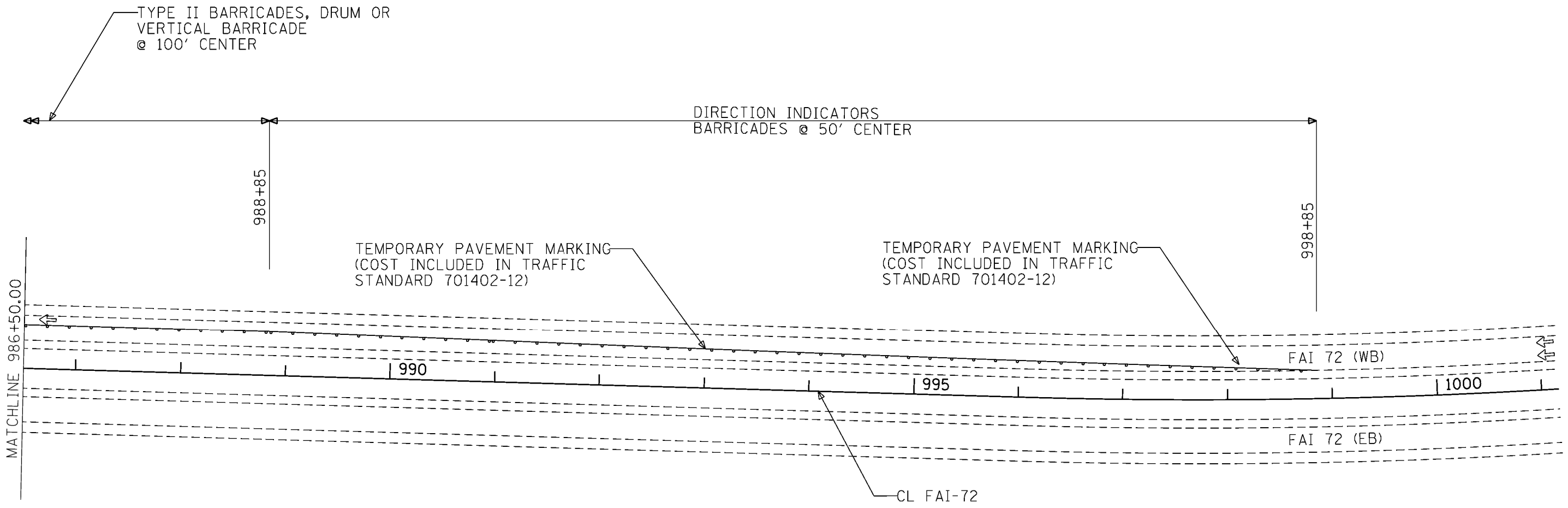
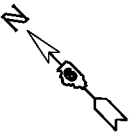
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PLOT DATE = 8/14/2018	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>I-72 WB TRAFFIC CONTROL PLAN STAGE 1</b>			
SCALE: _____	SHEET 14 OF 55 SHEETS	STA. _____	TO STA. _____

F.A.I. RTE. 72	SECTION (75-3) BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 14
			CONTRACT NO. 72K66	
ILLINOIS FED. AID PROJECT				



	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**

REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

MODEL: Default  
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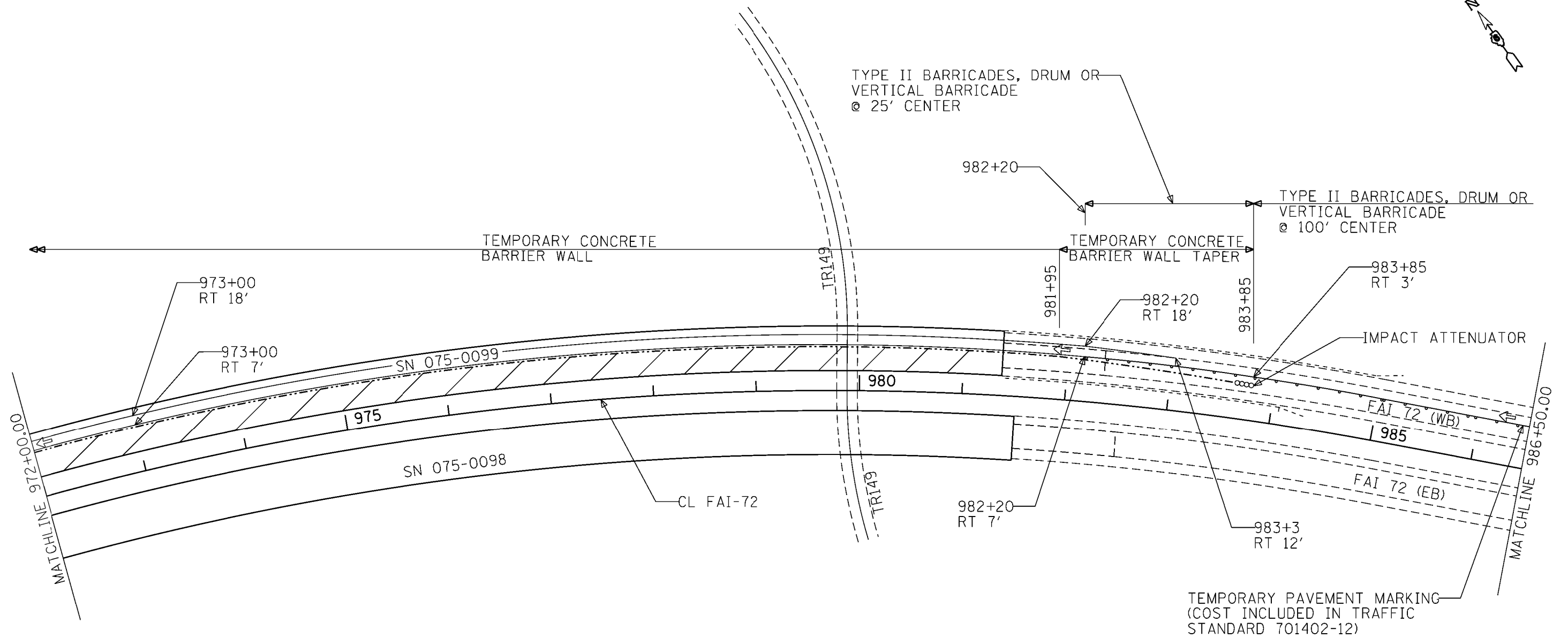
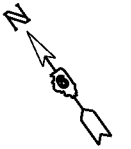
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PLOT DATE = 8/14/2018	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-72 WB TRAFFIC CONTROL PLAN  
STAGE 2**

SCALE: \_\_\_\_\_ SHEET 15 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	15
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**

REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

LT AND RT OFFSETS ARE BASED ON ROAD AND BRIDGE CENTERLINE

MODEL: Default  
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PLOT DATE = 8/14/2018	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

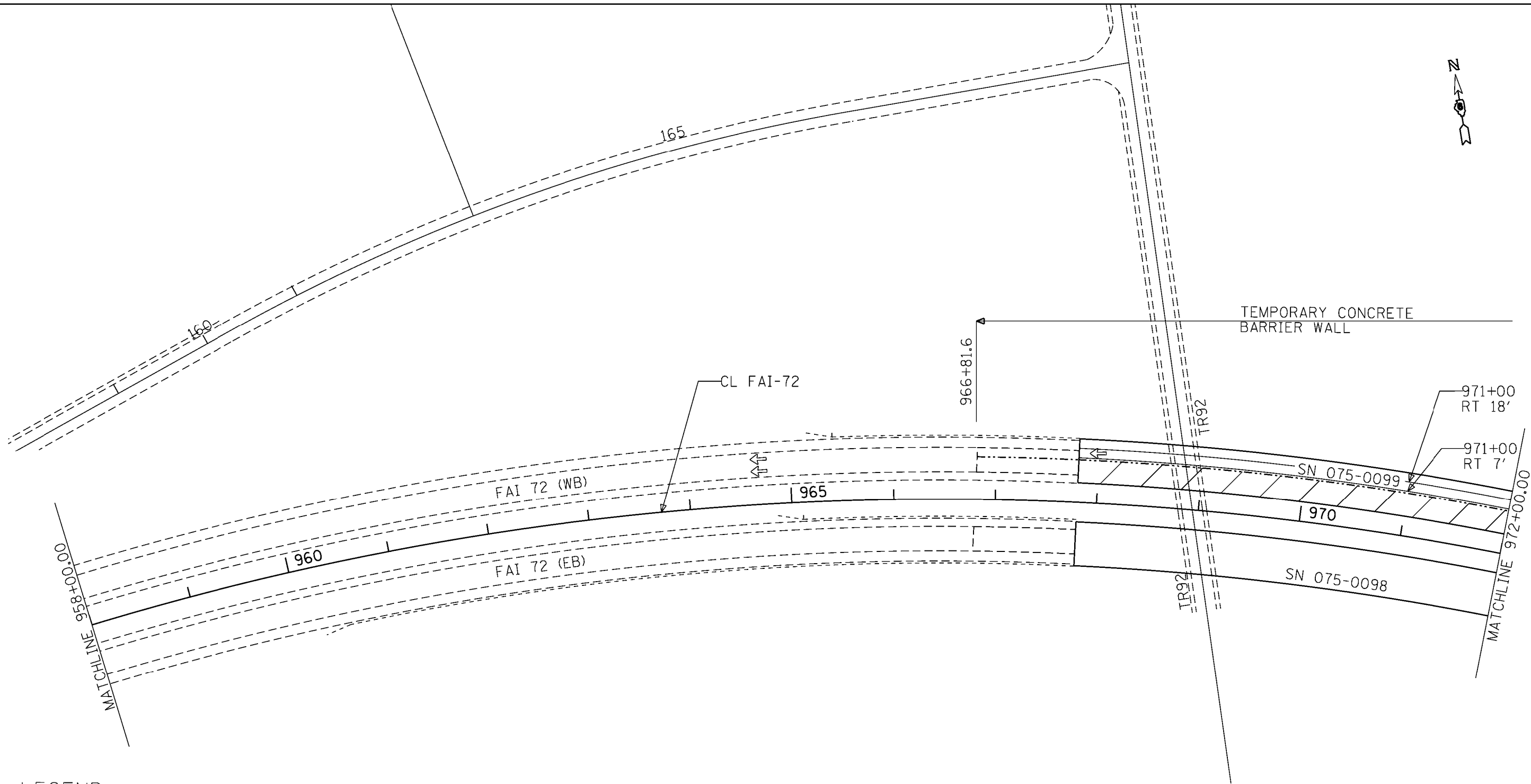
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-72 WB TRAFFIC CONTROL PLAN  
STAGE 2**

SCALE: \_\_\_\_\_ SHEET 16 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	16
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	





**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**

REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

LT AND RT OFFSETS ARE BASED ON ROAD AND BRIDGE CENTERLINE

MODEL: Default  
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PLOT DATE = 8/14/2018	CHECKED - _____	REVISED - _____
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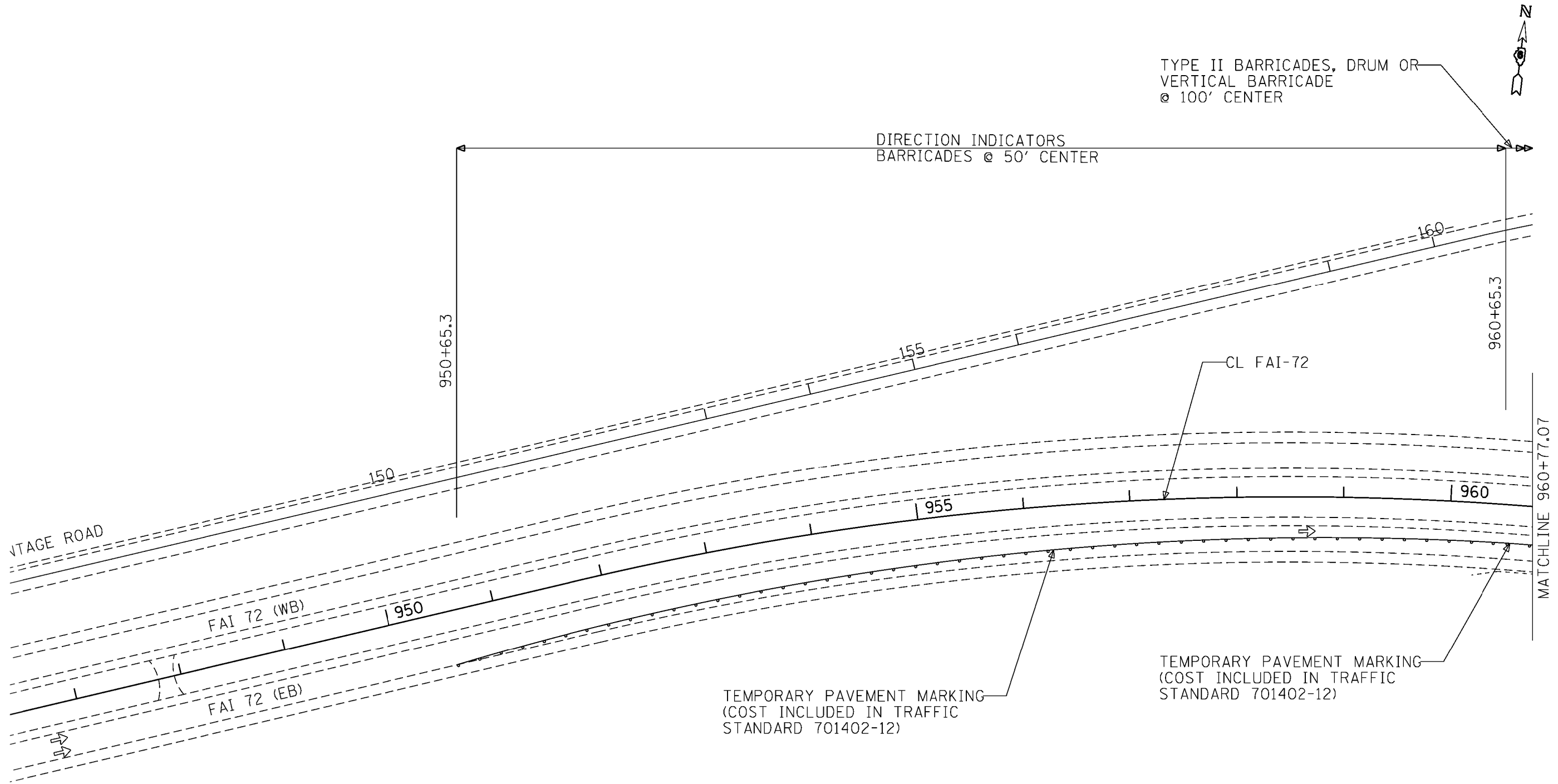
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-72 WB TRAFFIC CONTROL PLAN  
STAGE 2**

SCALE: \_\_\_\_\_ SHEET 17 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	17
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				

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**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**

REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

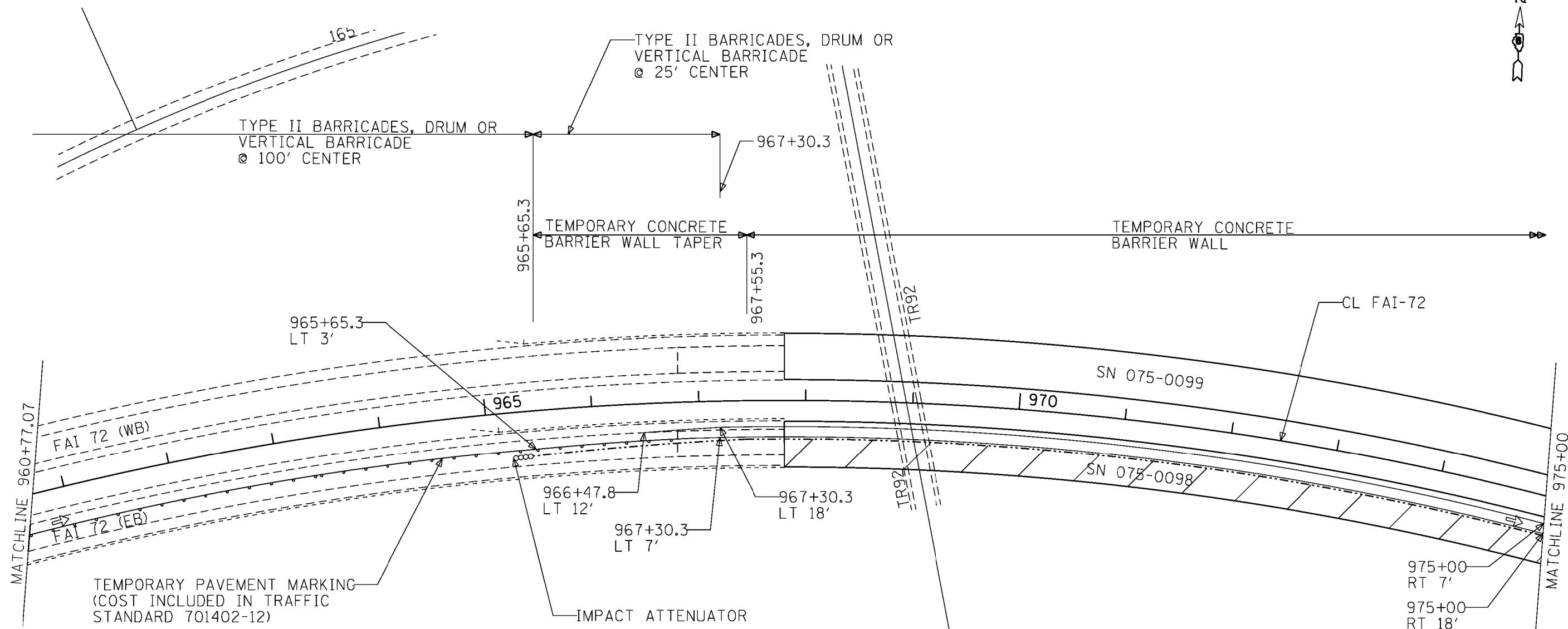
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PLOT DATE = 8/14/2018	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-72 EB TRAFFIC CONTROL PLAN  
STAGE 1**

SCALE: \_\_\_\_\_ SHEET 18 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE. 72	SECTION (75-3) BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 18
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**

REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

LT AND RT OFFSETS ARE BASED ON ROAD AND BRIDGE CENTERLINE

MODEL: Default  
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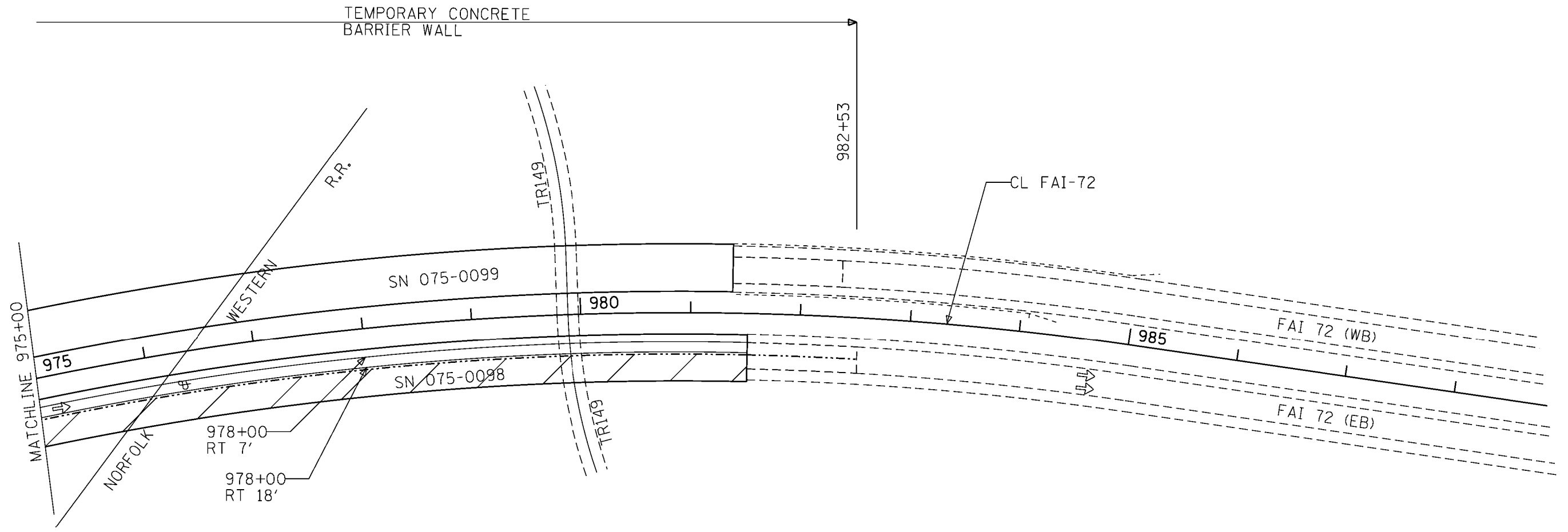
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PLOT DATE = 8/14/2018	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-72 EB TRAFFIC CONTROL PLAN  
STAGE 1**

SCALE: \_\_\_\_\_ SHEET 19 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	19
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**

REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

LT AND RT OFFSETS ARE BASED ON ROAD AND BRIDGE CENTERLINE

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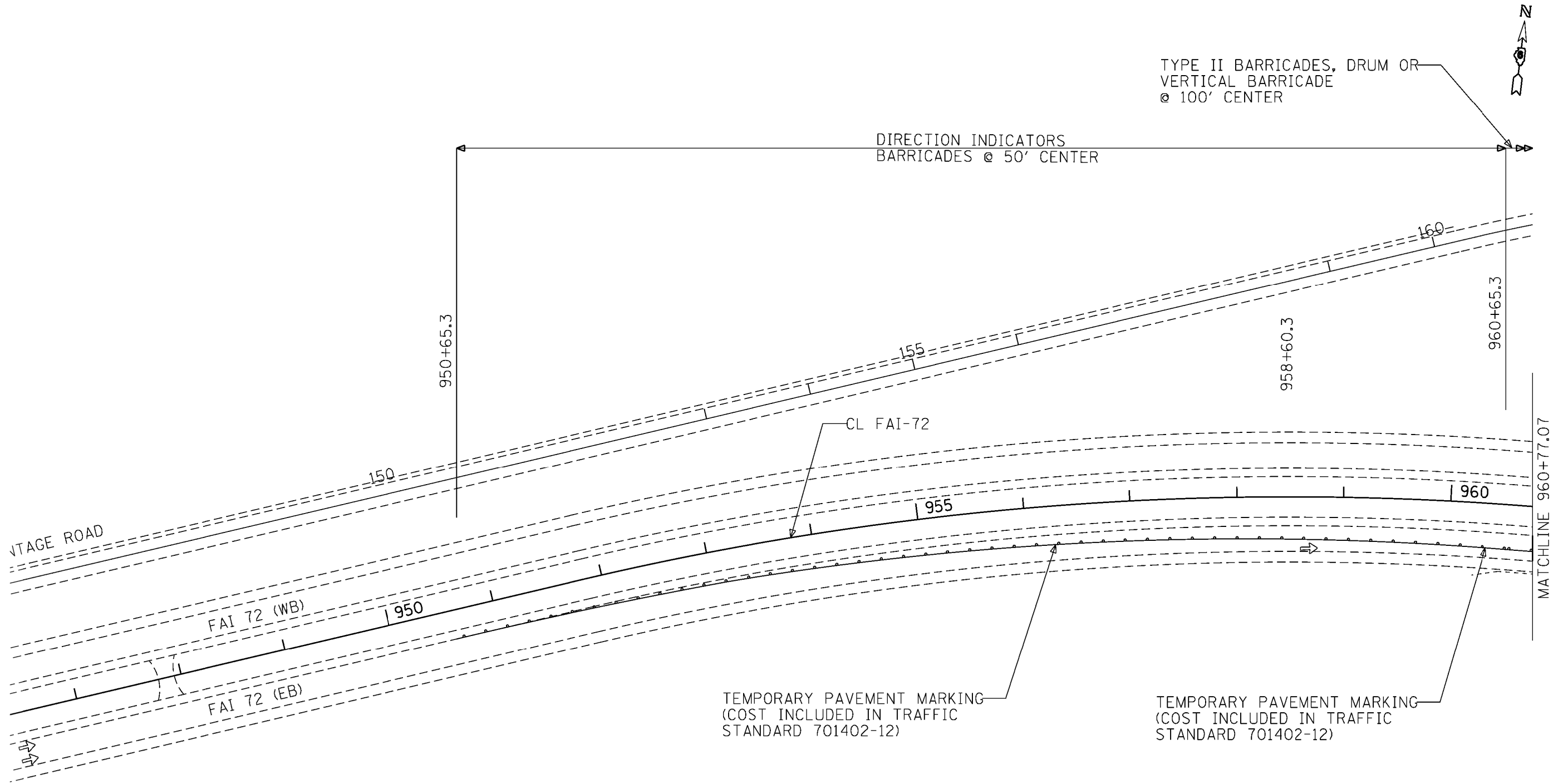
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-72 EB TRAFFIC CONTROL PLAN  
STAGE 1**

SCALE: \_\_\_\_\_ SHEET 20 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	20
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	

MODEL: Default  
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**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

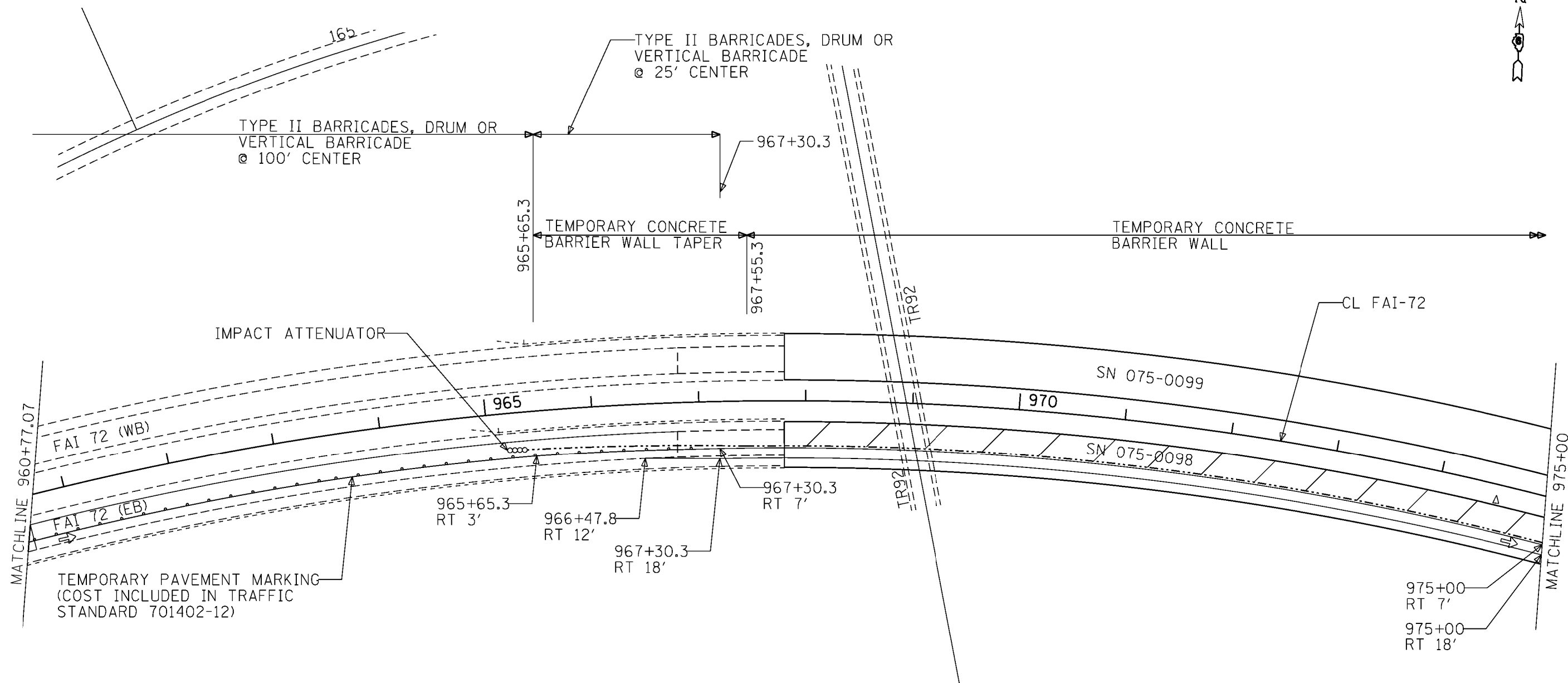
**NOTES**  
 REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

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PLOT DATE = 8/14/2018	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>I-72 EB TRAFFIC CONTROL PLAN</b>	
<b>STAGE 2</b>	
SCALE: _____	SHEET 21 OF 55 SHEETS STA. _____ TO STA. _____

F.A.I. RTE. 72	SECTION (75-3) BJR	COUNTY PIKE	TOTAL SHEETS .55	SHEET NO. 21
			CONTRACT NO. 72K66	
ILLINOIS FED. AID PROJECT				



**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**

REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

LT AND RT OFFSETS ARE BASED ON ROAD AND BRIDGE CENTERLINE

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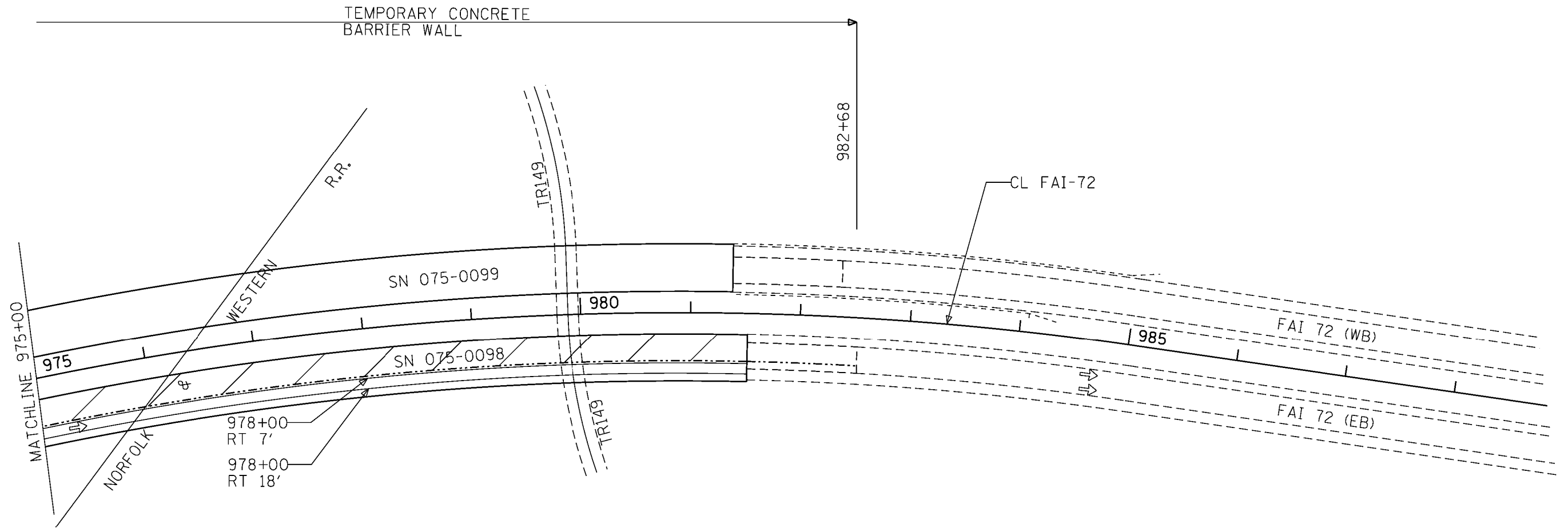
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PLOT DATE = 8/14/2018	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-72 EB TRAFFIC CONTROL PLAN  
STAGE 2**

SCALE: \_\_\_\_\_ SHEET 22 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3) BJR	PIKE	55	22
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



**LEGEND**

	DIRECTION INDICATOR BARRICADES/TYPE II BARRICADE (AS NOTED)
	TEMPORARY CONCRETE BARRIER WALL
	IMPACT ATTENUATOR
	WORK ZONE

**NOTES**

REMAINDER OF SIGNING ACCORDING TO STANDARD 701402 AND AS DIRECTED BY ENGINEER

LT AND RT OFFSETS ARE BASED ON ROAD AND BRIDGE CENTERLINE

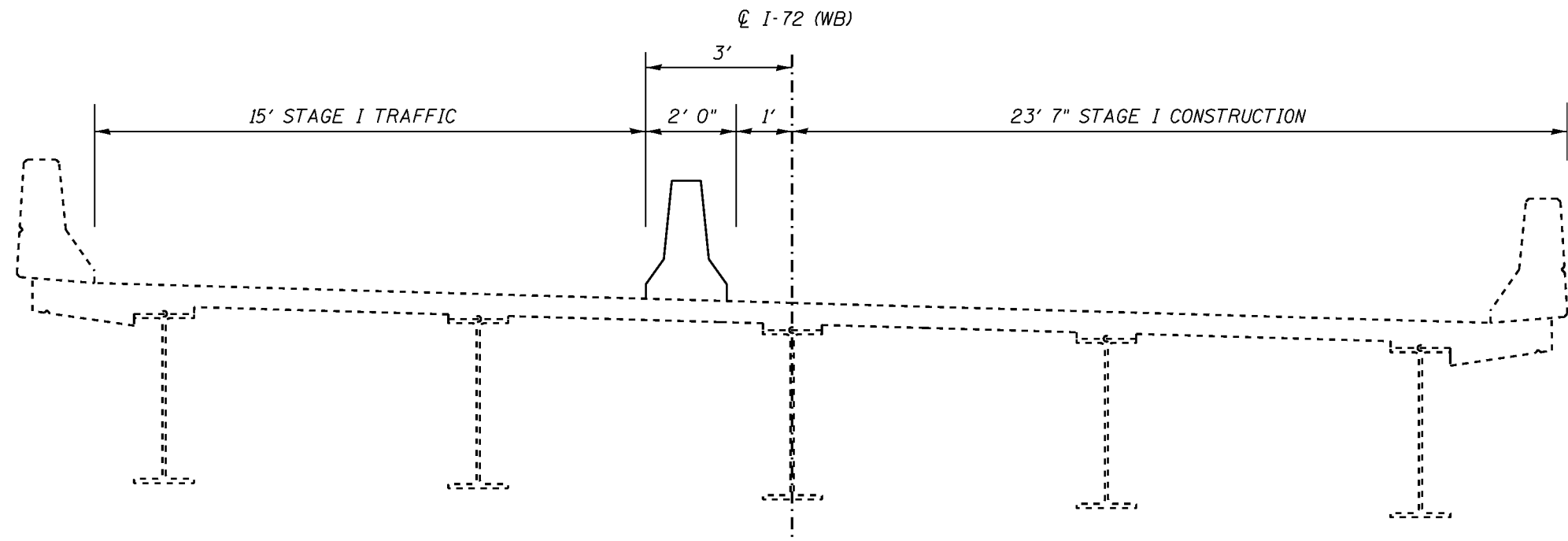
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	DATE - _____	REVISED - _____

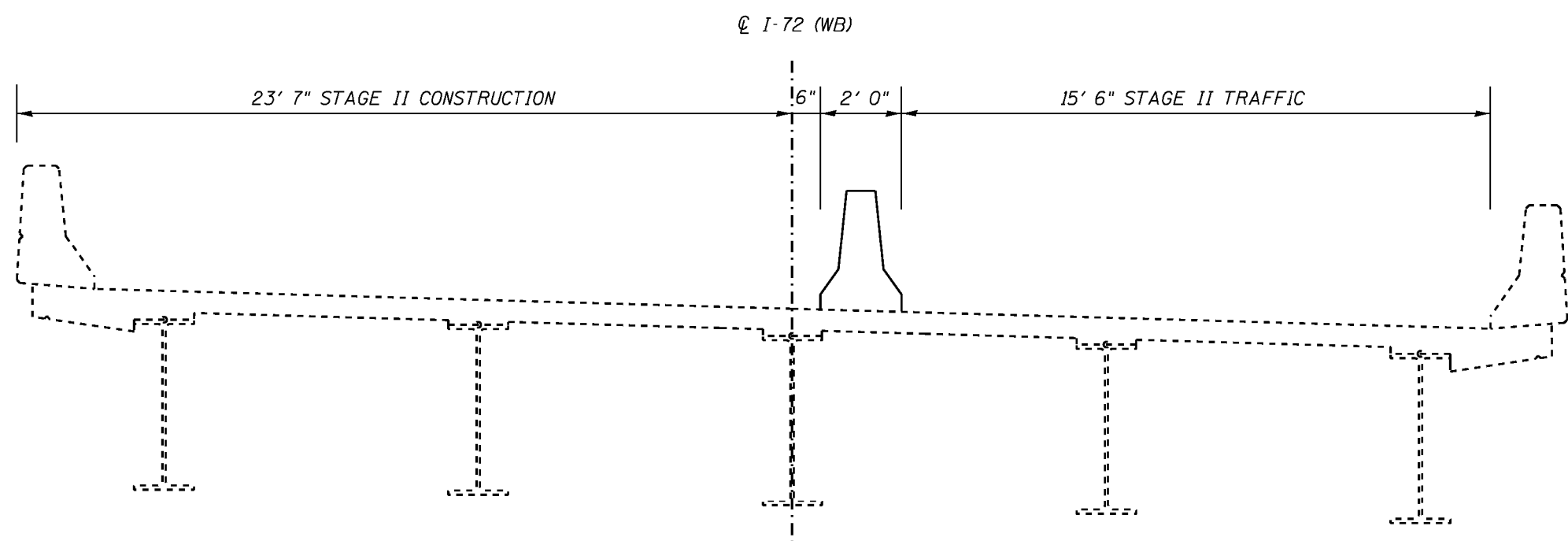
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>I-72 EB TRAFFIC CONTROL PLAN STAGE 2</b>	
SCALE: _____	SHEET 23 OF 55 SHEETS STA. _____ TO STA. _____

F.A.I. RTE. 72	SECTION (75-3) BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 23
			CONTRACT NO. 72K66	
ILLINOIS FED. AID PROJECT				



**STAGE I CROSS SECTION (LOOKING EAST)**  
SN 007-0099



**STAGE II CROSS SECTION (LOOKING EAST)**  
SN 007-0099

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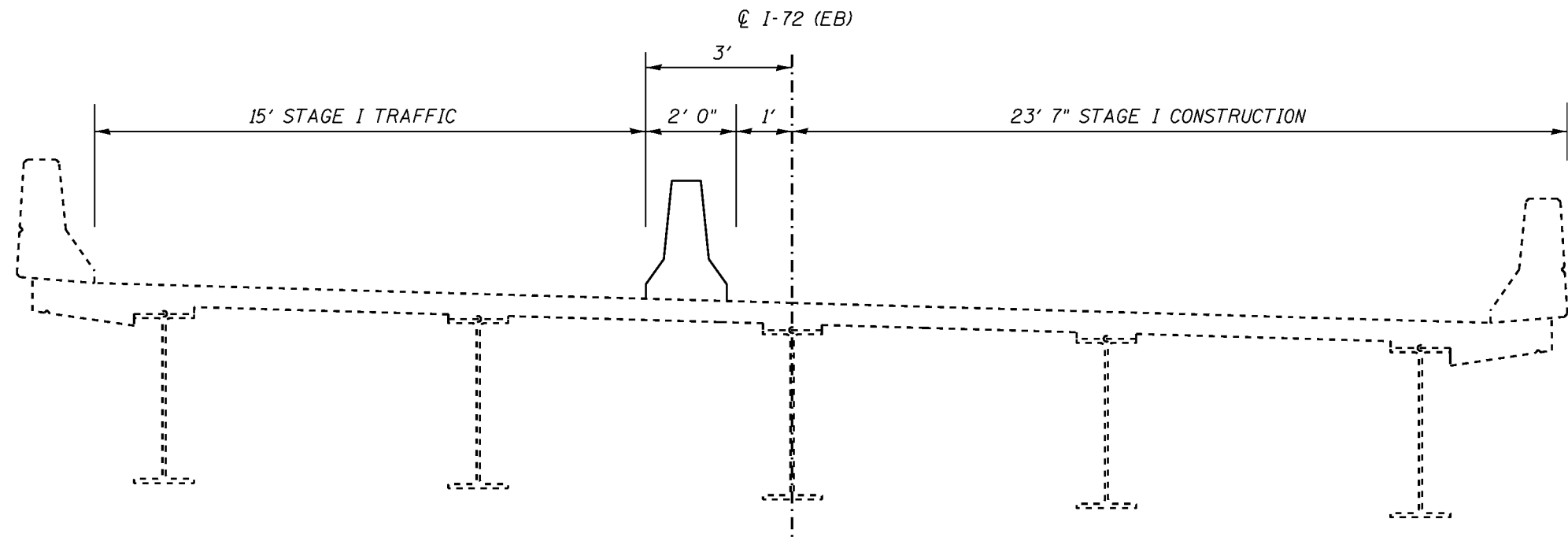
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

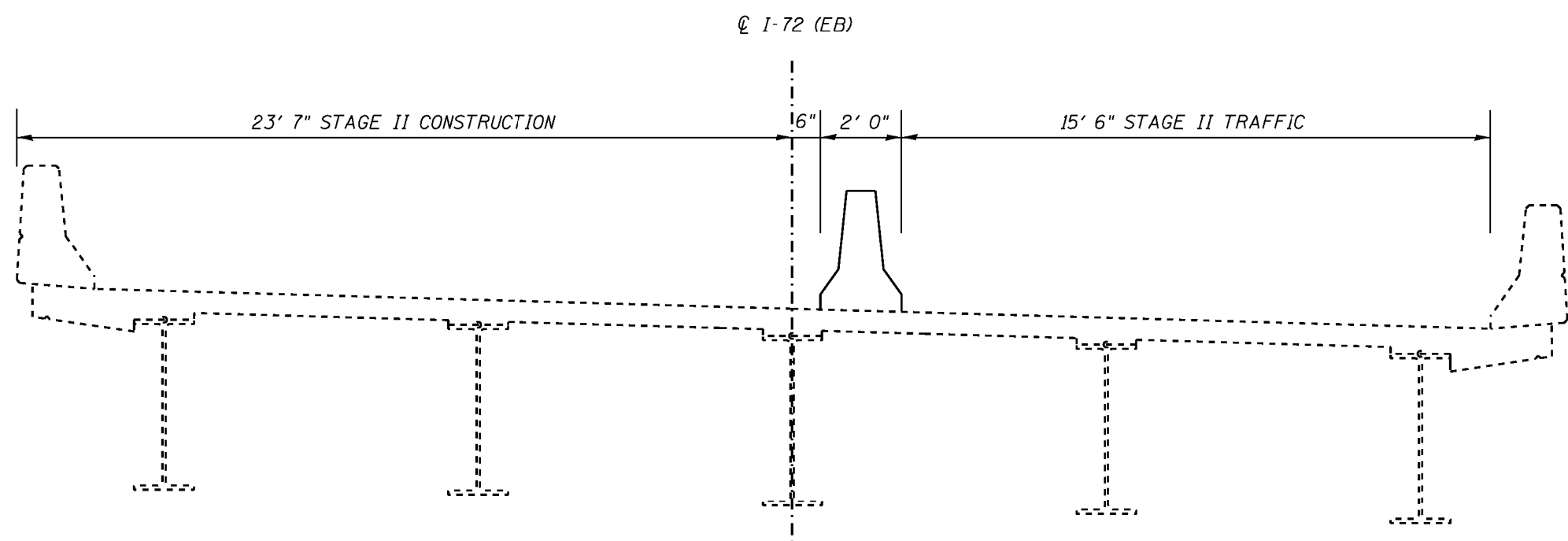
**STAGING PLAN**  
SCALE: \_\_\_\_\_ SHEET 24 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE. 72	SECTION (75-3) BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 24
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	





**STAGE I CROSS SECTION (LOOKING EAST)**  
SN 007-0098



**STAGE II CROSS SECTION (LOOKING EAST)**  
SN 007-0098

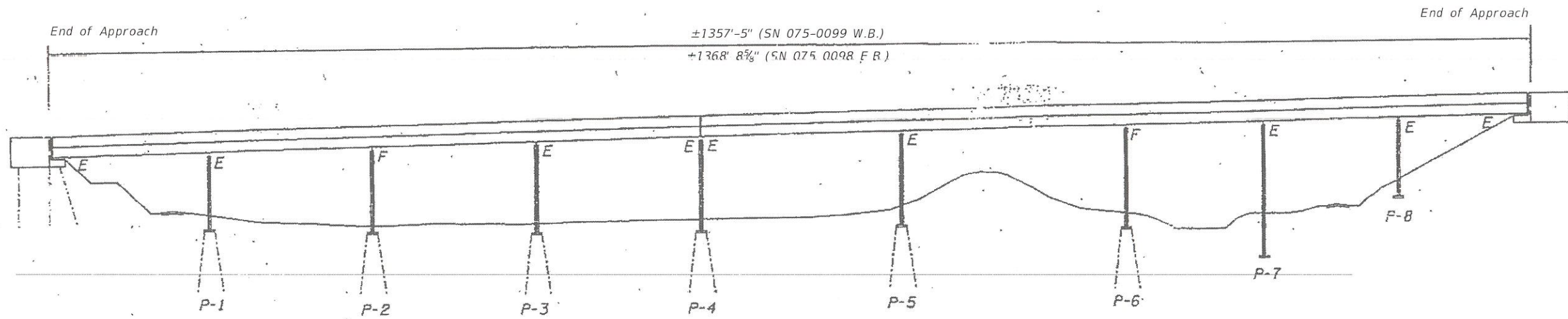
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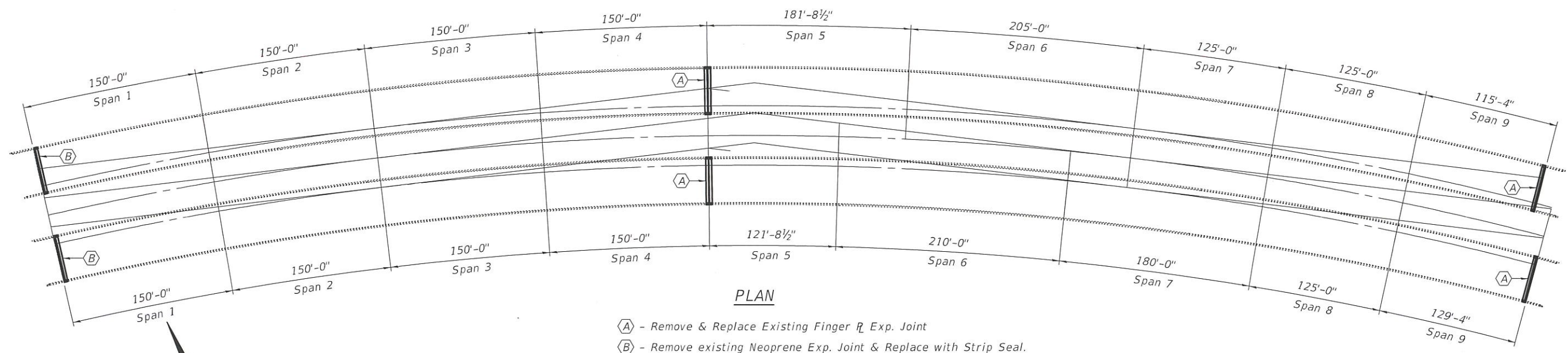
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN**  
SCALE: \_\_\_\_\_ SHEET 25 OF 55 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE. 72	SECTION (75-3) BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 25
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



ELEVATION



PLAN

- (A) - Remove & Replace Existing Finger Pl. Exp. Joint
- (B) - Remove existing Neoprene Exp. Joint & Replace with Strip Seal.

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.  
 AASHTO Classification M-270 Gr. 50 steel (NTR) shall be used throughout the Finger Plate Joints.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 Reinforcement bars designated (E) shall be epoxy coated.  
 Finger Plate Expansion Joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.

The finger plates shall be flame cut as provided in Article 505.04(k) of the Standard Specifications.  
 Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Finger Plate Expansion Joint.  
 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.  
 Tapered shims shall be added under the stools, as required by the Engineer, to make a smooth finger joint. Cost shall be included with Finger Plate Expansion Joint.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	37.2
Concrete Superstructure	Cu. Yd.	37.2
Reinforcement Bars, Epoxy Coated	Pound	5080
Bar Splicers	Each	88
Preformed Joint Strip Seal	Foot	84
Finger Plate Expansion Joint, 7"	Foot	80
Finger Plate Expansion Joint, 5"	Foot	80
Protective Coat	Sq. Yd.	113.4
Fabric Reinforced Elastomeric Trough	Foot	164



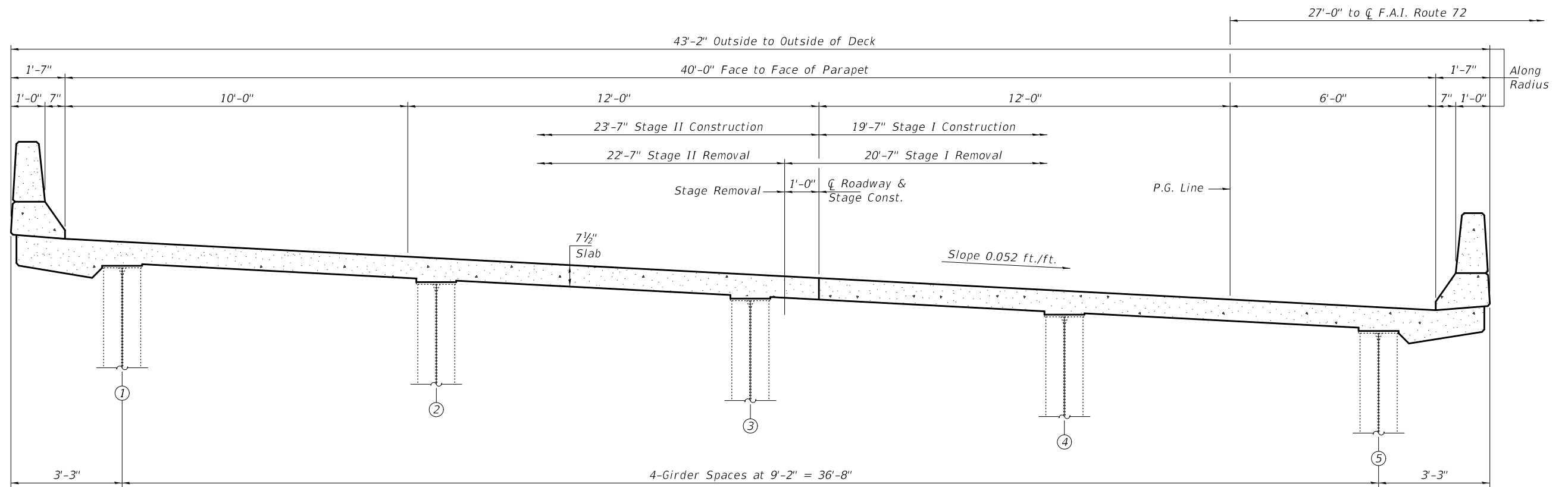
Expires: November 30, 2018

DESIGNED - <i>W. S. S.</i>	EXAMINED - <i>Timothy A. Gumbrecht</i>	DATE - OCTOBER 5, 2018
CHECKED - <i>Stephan M. Ryan</i>	PASSED - <i>David Carl Puzey</i>	REVISD -
DRAWN - STEFFEN	ENGINEER OF BRIDGES AND STRUCTURES	REVISD -
CHECKED - <i>JSB</i>		

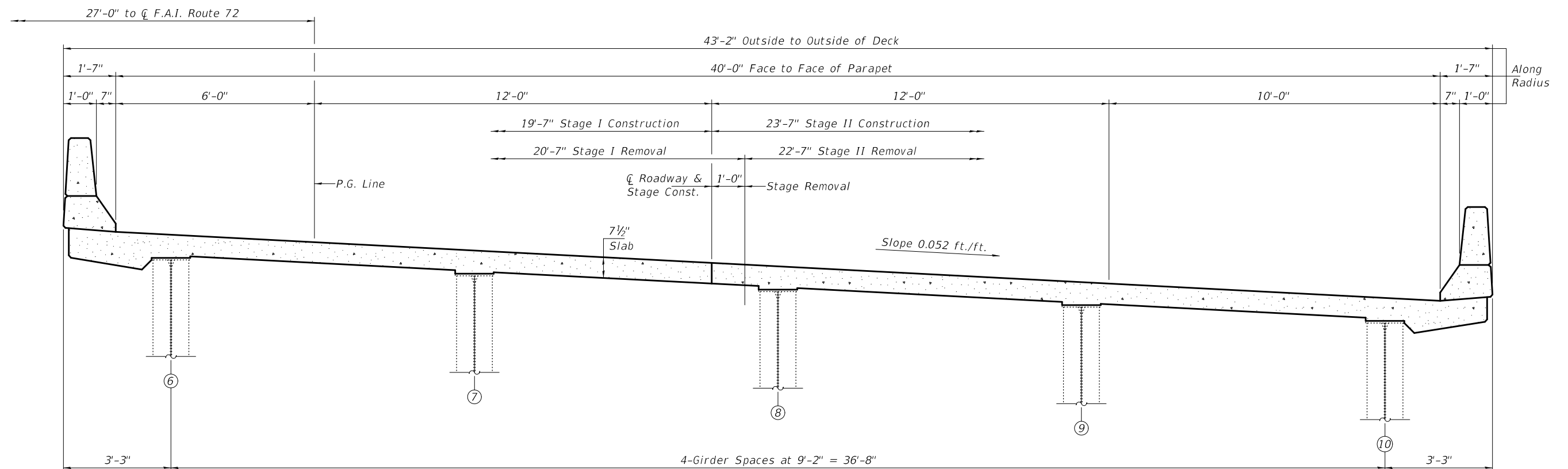
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
 F.A.I. 72 OVER TR 92, TR 149, & R.R.  
 SN 075-0098 (E.B.) & -0099 (W.B.)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	26
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				



**CROSS SECTION THRU SN 075-0099 (W.B.)**  
(Looking East)



**CROSS SECTION THRU 075-0098 (E.B.)**  
(Looking East)

DESIGNED - JSB  
 CHECKED - SMR  
 DRAWN - STEFFEN  
 CHECKED - JSB SMR

EXAMINED  
 PASSED  
*Timothy A. Daulton*  
 ENGINEER OF STRUCTURAL SERVICES  
*Carl R. Ruyter*  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 5, 2018  
 REVISED -  
 REVISED -

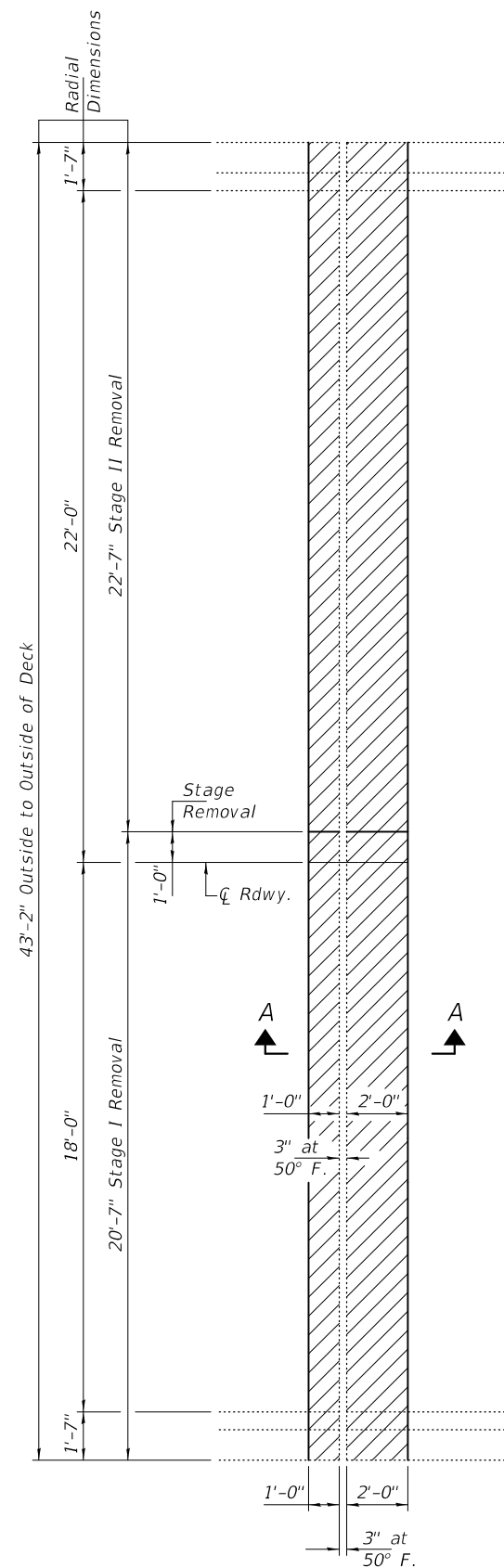
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STAGING DETAILS**  
**SN 075-0098 (E.B.) & -0099 (W.B.)**

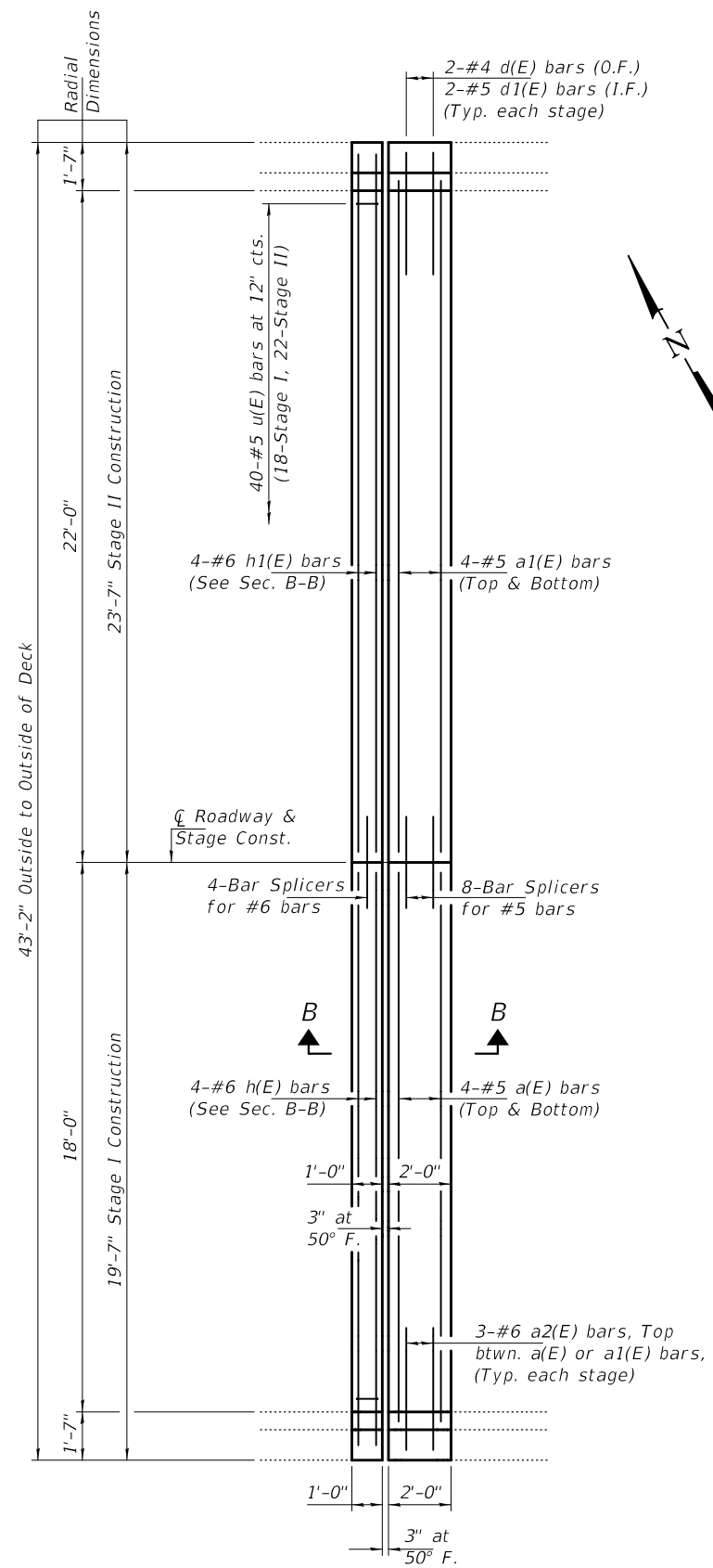
SHEET 2 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	27
CONTRACT NO. 72K66				

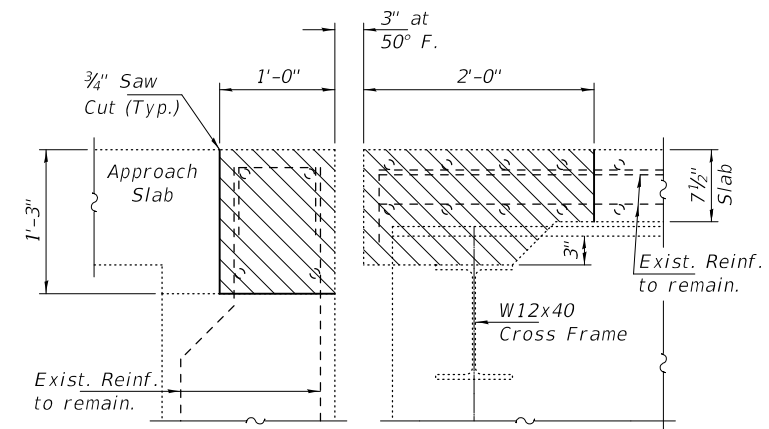
ILLINOIS FED. AID PROJECT



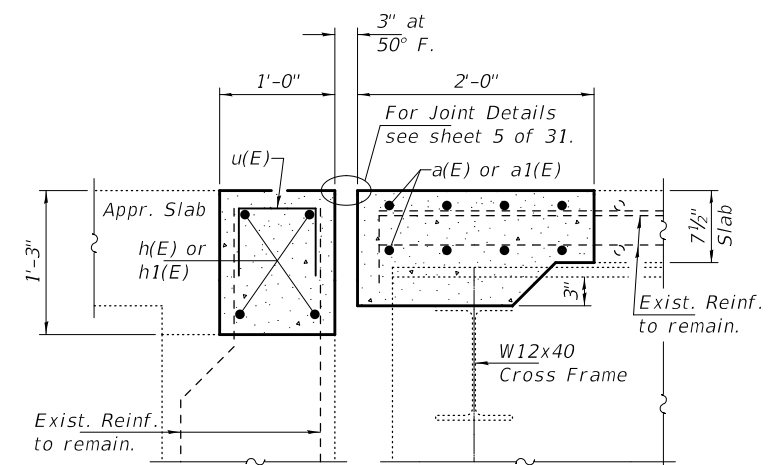
CONCRETE REMOVAL PLAN



CONCRETE REPLACEMENT PLAN



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



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

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#5	18'-6"	—
a1(E)	8	#5	22'-6"	—
a2(E)	6	#6	4'-0"	—
d(E)	4	#4	5'-2"	L
d1(E)	4	#5	3'-11"	L
h(E)	4	#6	19'-3"	—
h1(E)	4	#6	23'-3"	—
u(E)	40	#5	1'-10"	□
Concrete Removal			Cu. Yd.	5.4
Concrete Superstructure			Cu. Yd.	5.5
Bar Splicers			Each	12
Reinforcement Bars, Epoxy Coated			Pound	740

Notes:  
Hatched areas indicate Concrete Removal.  
For Parapet details and Reinforcement Bending Details see sheet 4 of 31.

DESIGNED - JSB  
CHECKED - SMR  
DRAWN - STEFFEN  
CHECKED - JSB SMR

EXAMINED  
PASSED  
Timothy A. [Signature]  
ENGINEER OF STRUCTURAL SERVICES  
[Signature]  
ENGINEER OF BRIDGES AND STRUCTURES

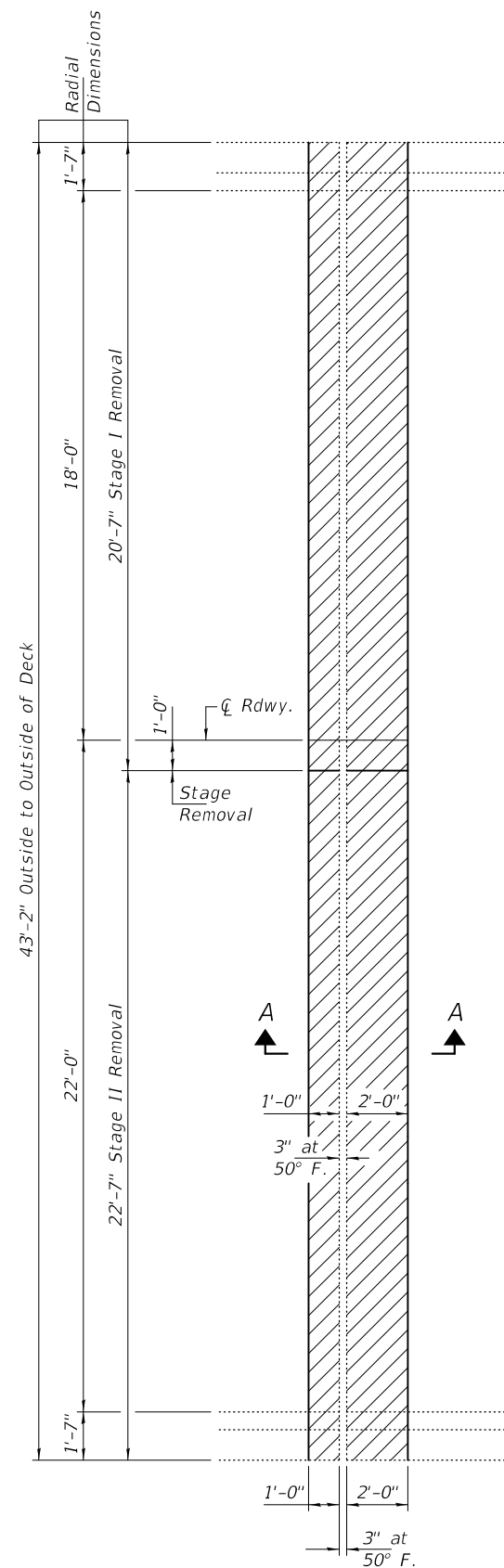
DATE - OCTOBER 5, 2018  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

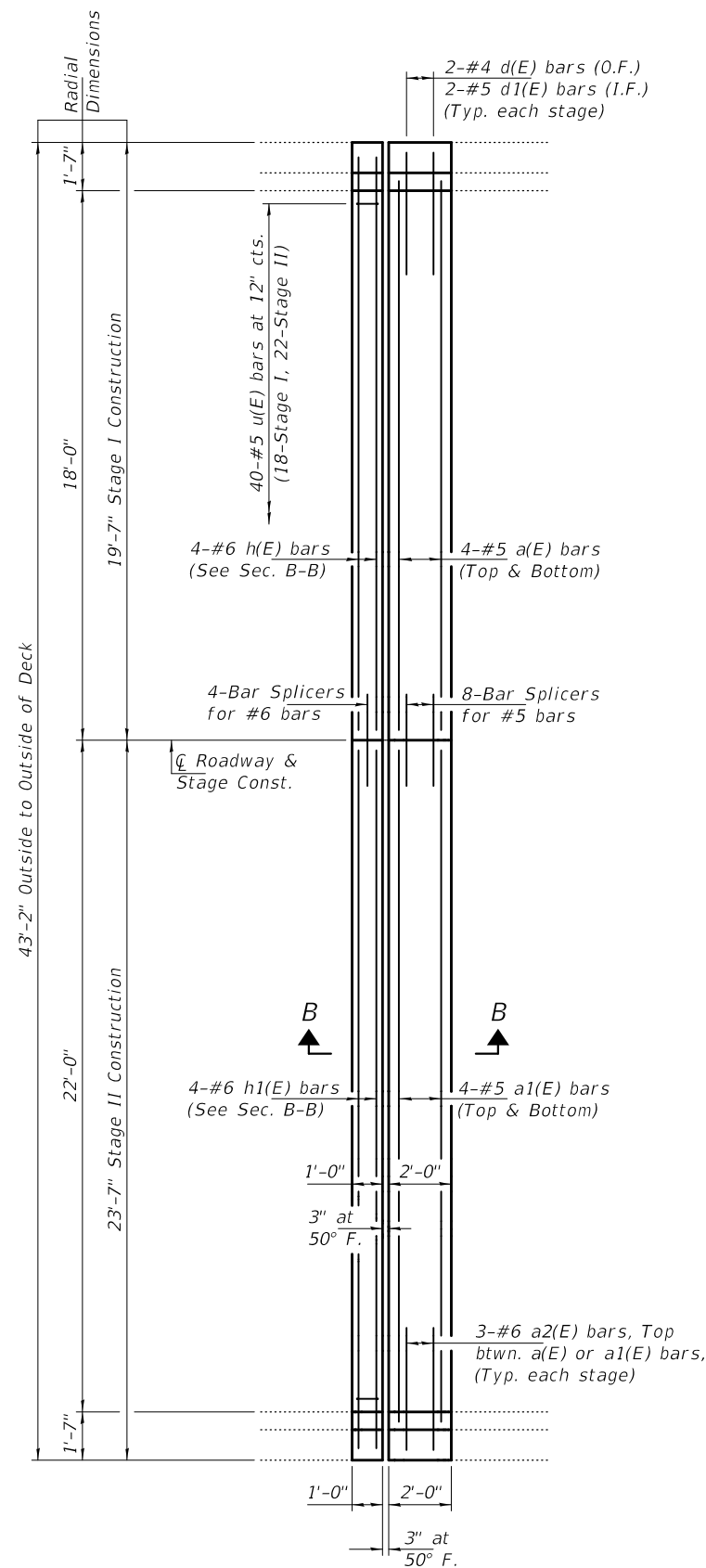
W. ABUT. JOINT REMOVAL & REPLACEMENT DETAILS  
SN 075-0099 (W.B.)

SHEET 3 OF 31 SHEETS

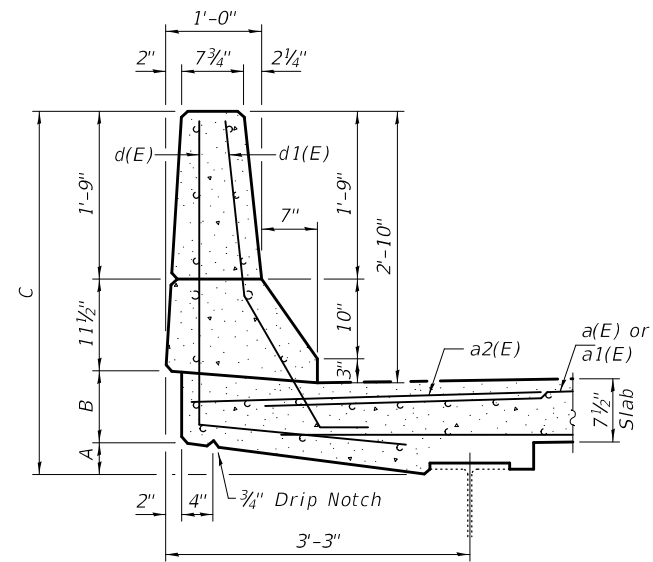
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	28
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				



CONCRETE REMOVAL PLAN



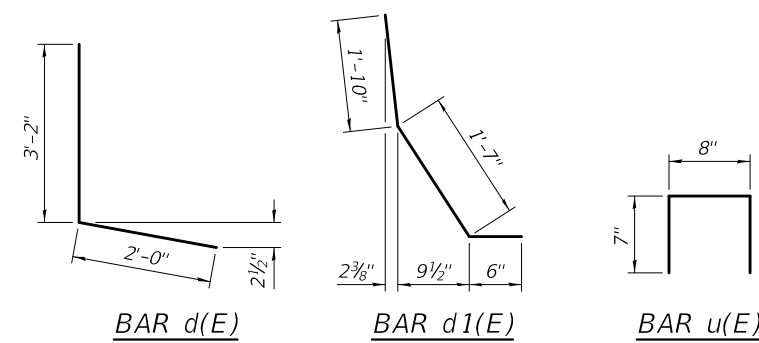
CONCRETE REPLACEMENT PLAN



SECTION THRU BRIDGE PARAPET

TABLE OF DIMENSIONS

Structure	Parapet	"A"	"B"	"C"
075-0098 (E.B.)	North	5"	10 1/8"	3'-11 5/8"
	South	4 1/8"	9"	3'-9 5/8"
075-0099 (W.B.)	North	5"	10 3/4"	4'-0 1/4"
	South	4 3/4"	9"	3'-10 1/4"



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#5	18'-6"	—
a1(E)	8	#5	22'-6"	—
a2(E)	6	#6	4'-0"	—
d(E)	4	#4	5'-2"	L
d1(E)	4	#5	3'-11"	L
h(E)	4	#6	19'-3"	—
h1(E)	4	#6	23'-3"	—
u(E)	40	#5	1'-10"	U
Concrete Removal			Cu. Yd.	5.4
Concrete Superstructure			Cu. Yd.	5.5
Bar Splicers			Each	12
Reinforcement Bars, Epoxy Coated			Pound	740

Notes:  
Hatched areas indicate Concrete Removal.  
For Sections A-A & B-B see sheet 3 of 31.

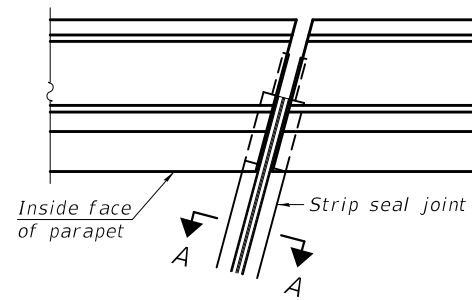
DESIGNED - JSB	EXAMINED - <i>Timothy A. Dredge</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

W. ABUT. JOINT REMOVAL & REPLACEMENT DETAILS  
SN 075-0098 (E.B.)

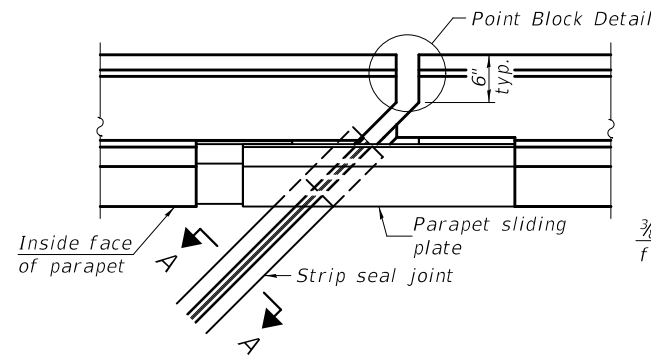
SHEET 4 OF 31 SHEETS

F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 29
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				

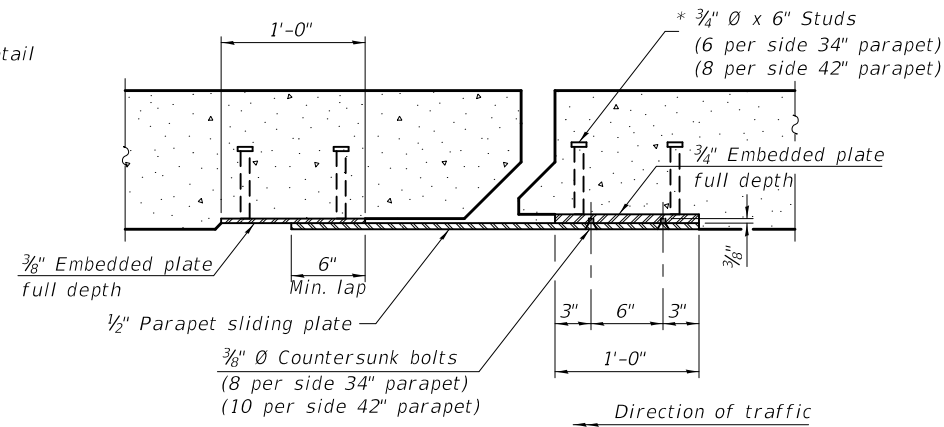


FOR SKEWS  $\leq 30^\circ$

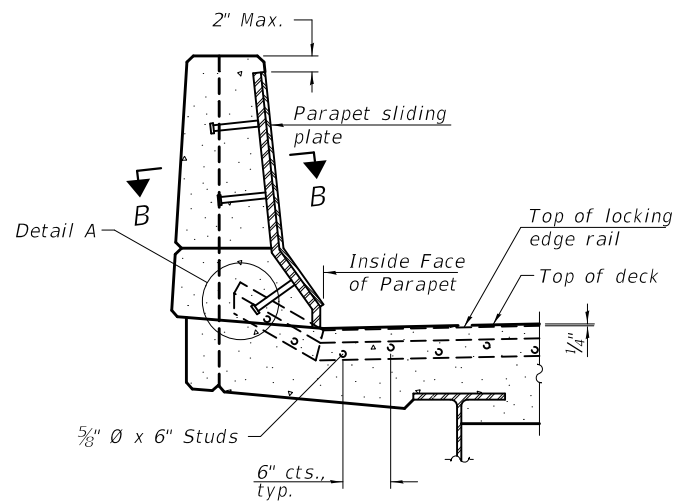
PLAN AT PARAPET



FOR SKEWS  $> 30^\circ$

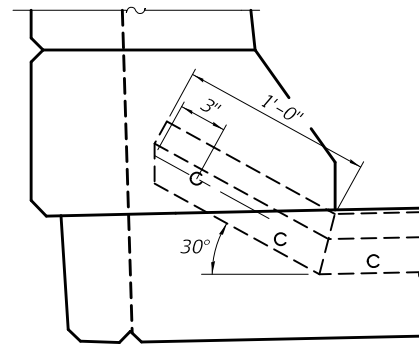


SECTION B-B

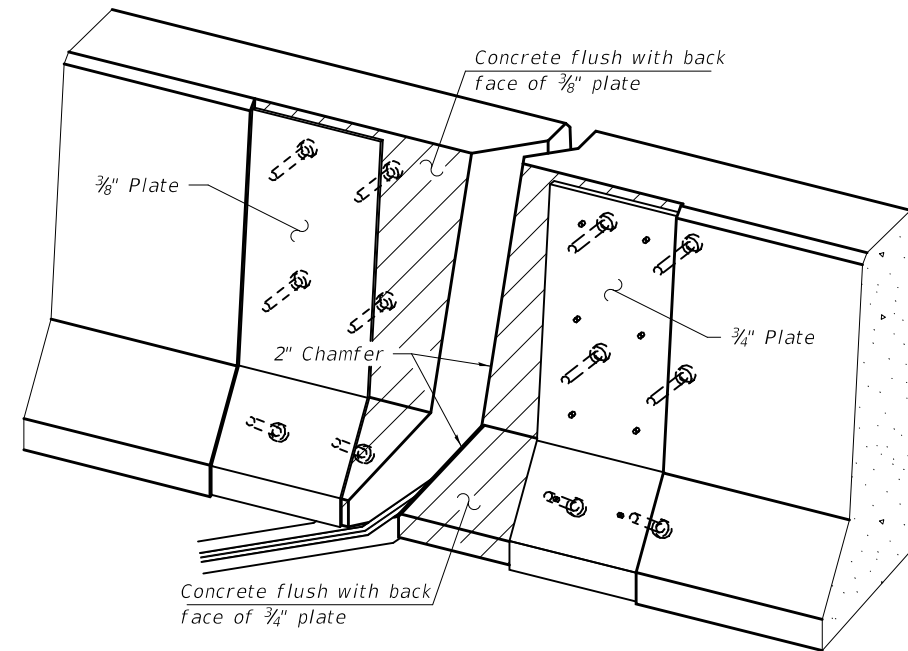


ELEVATION AT PARAPET

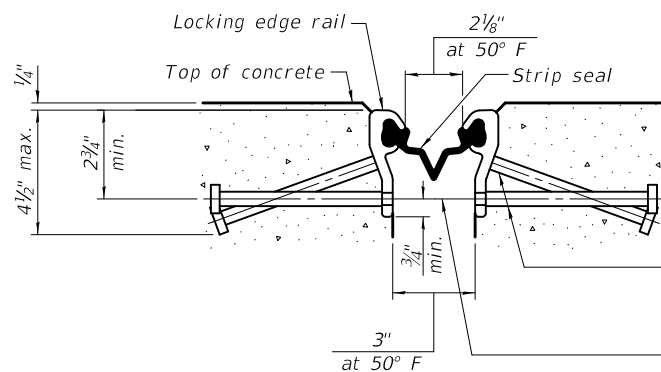
(Skews  $> 30^\circ$  shown. Skews  $\leq 30^\circ$  similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW  
(Showing embedded plates only)

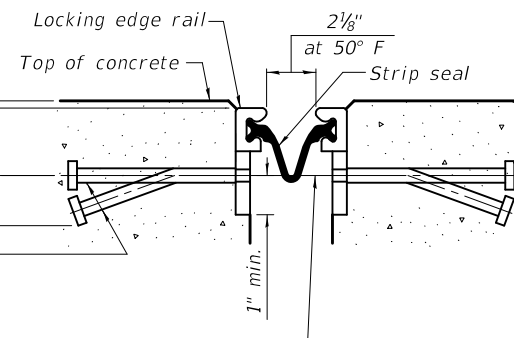


SHOWING ROLLED RAIL JOINT

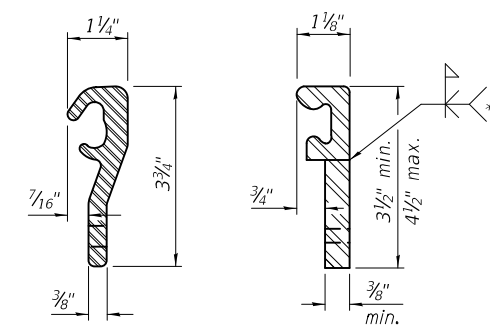
\*  $5/8"$   $\varnothing$  x 6" studs at 6" cts. (alternate angled/bent studs with horizontal studs)  
 $3/8"$   $\varnothing$  threaded rods in  $7/16"$   $\varnothing$  holes at  $\pm 4'-0"$  cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

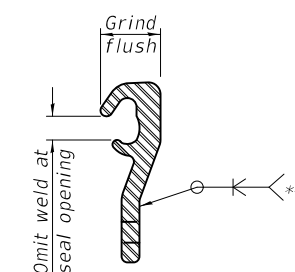


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	84

EJ-SS

8-11-17

DESIGNED - JSB	EXAMINED -
CHECKED - SMR	PASSED -
DRAWN - STEFFEN	
CHECKED - JSB SMR	

 ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
 ENGINEER OF BRIDGES AND STRUCTURES	REVISIONS

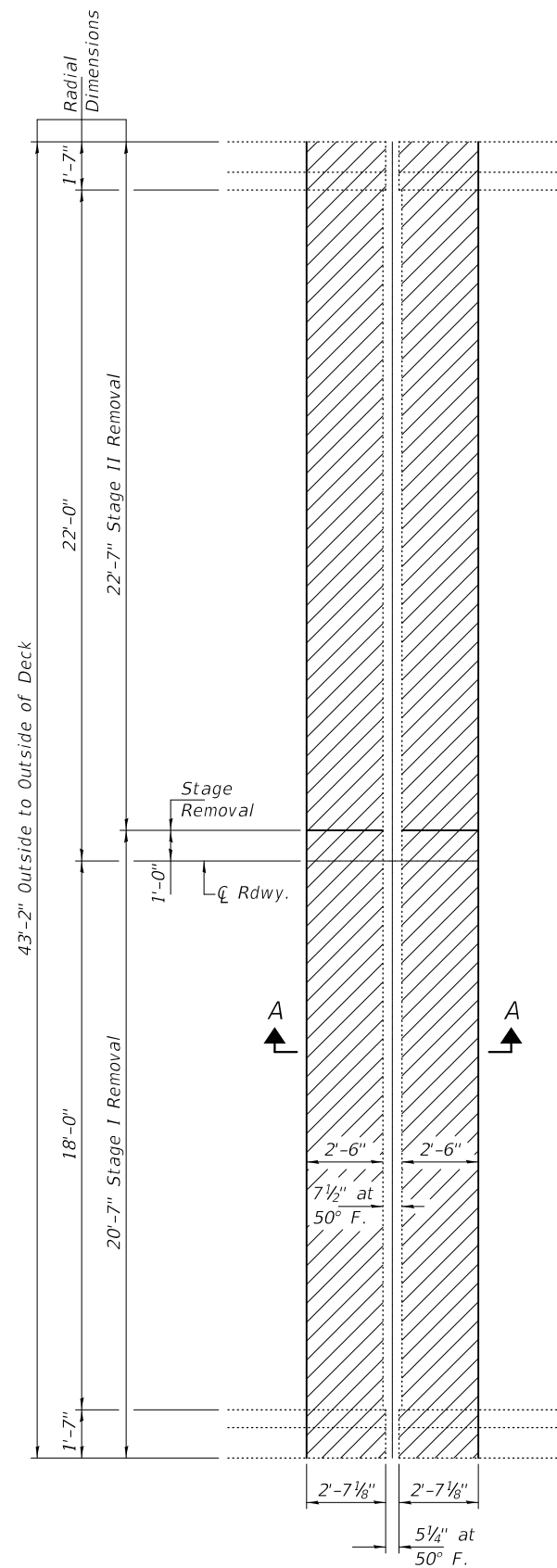
DATE - OCTOBER 5, 2018
REVISIONS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

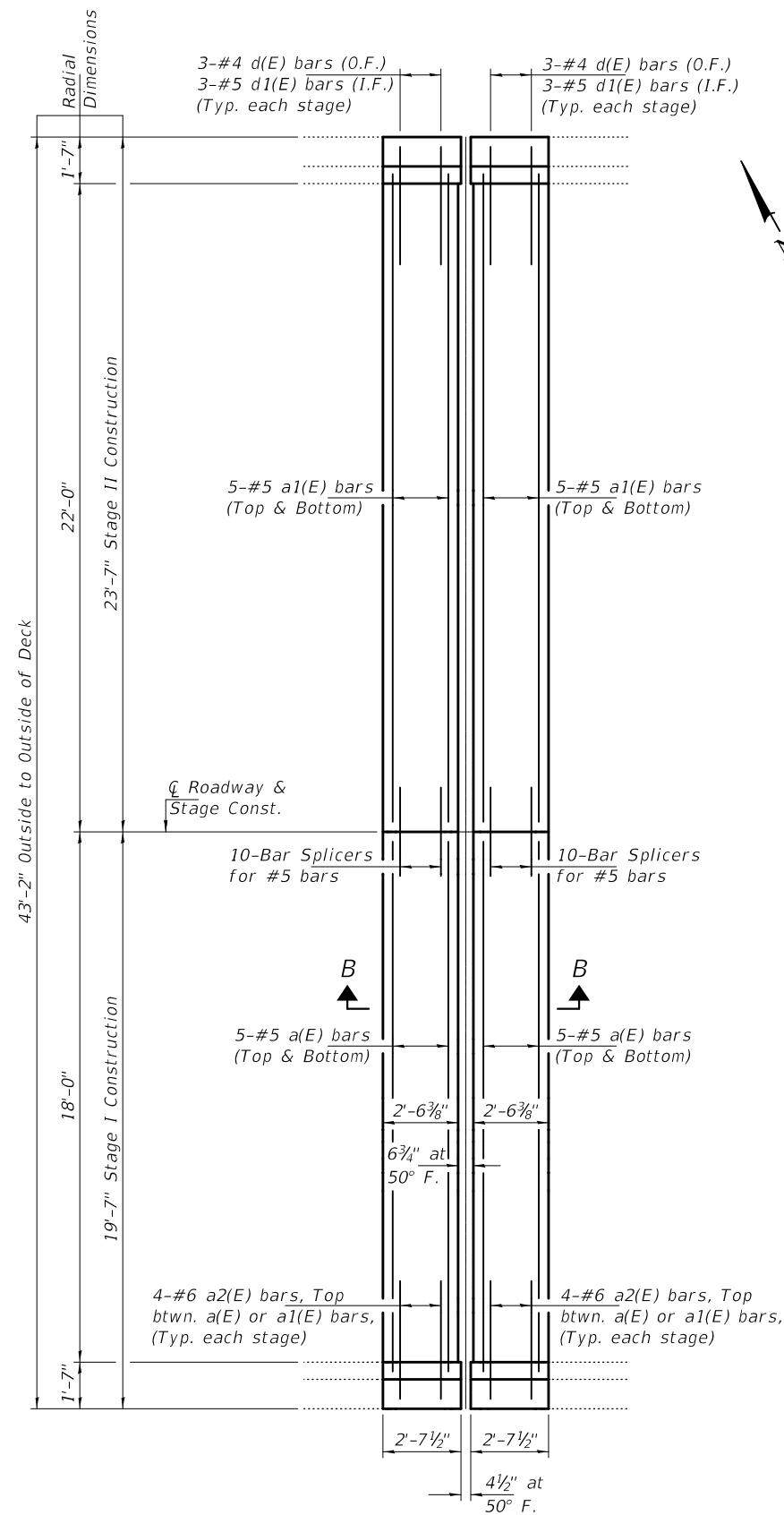
PREFORMED JOINT STRIP SEAL DETAILS  
SN 075-0098 (E.B.) & -0099 (W.B.)

SHEET 5 OF 31 SHEETS

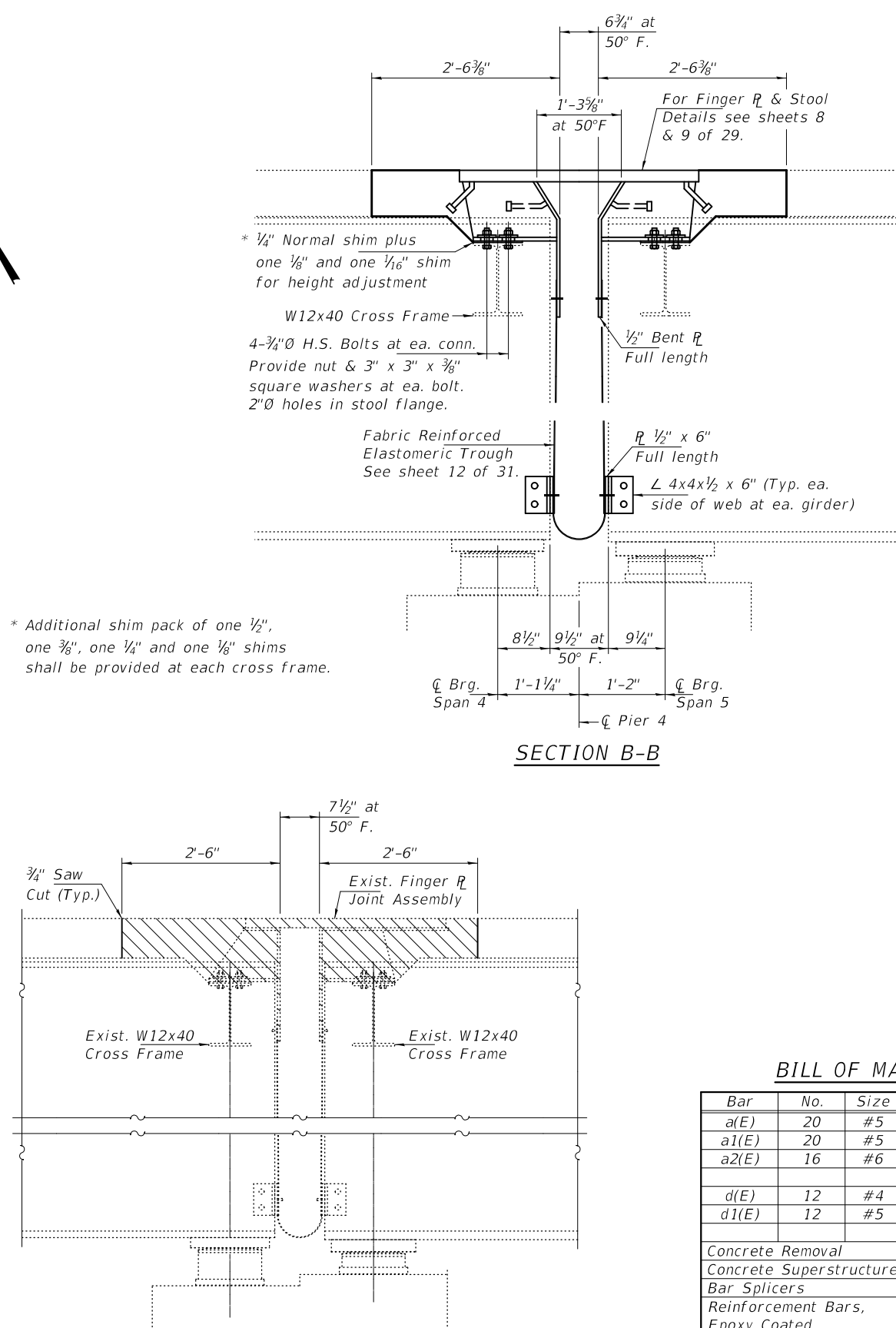
F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 30
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



CONCRETE REMOVAL PLAN



CONCRETE REPLACEMENT PLAN



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	20	#5	18'-6"	—
a1(E)	20	#5	22'-6"	—
a2(E)	16	#6	4'-0"	—
d(E)	12	#4	5'-2"	L
d1(E)	12	#5	3'-11"	L
Concrete Removal			Cu. Yd.	7.7
Concrete Superstructure			Cu. Yd.	7.7
Bar Splicers			Each	20
Reinforcement Bars, Epoxy Coated			Pound	1040
Finger Plate Expansion Joint, 7"			Foot	40
Fabric Reinforced Elastomeric Trough			Foot	41

DESIGNED - JSB  
CHECKED - SMR  
DRAWN - STEFFEN  
CHECKED - JSB SMR

EXAMINED  
PASSED

Timothy A. Daulton  
ENGINEER OF STRUCTURAL SERVICES

Carl R. Ringer  
ENGINEER OF BRIDGES AND STRUCTURES

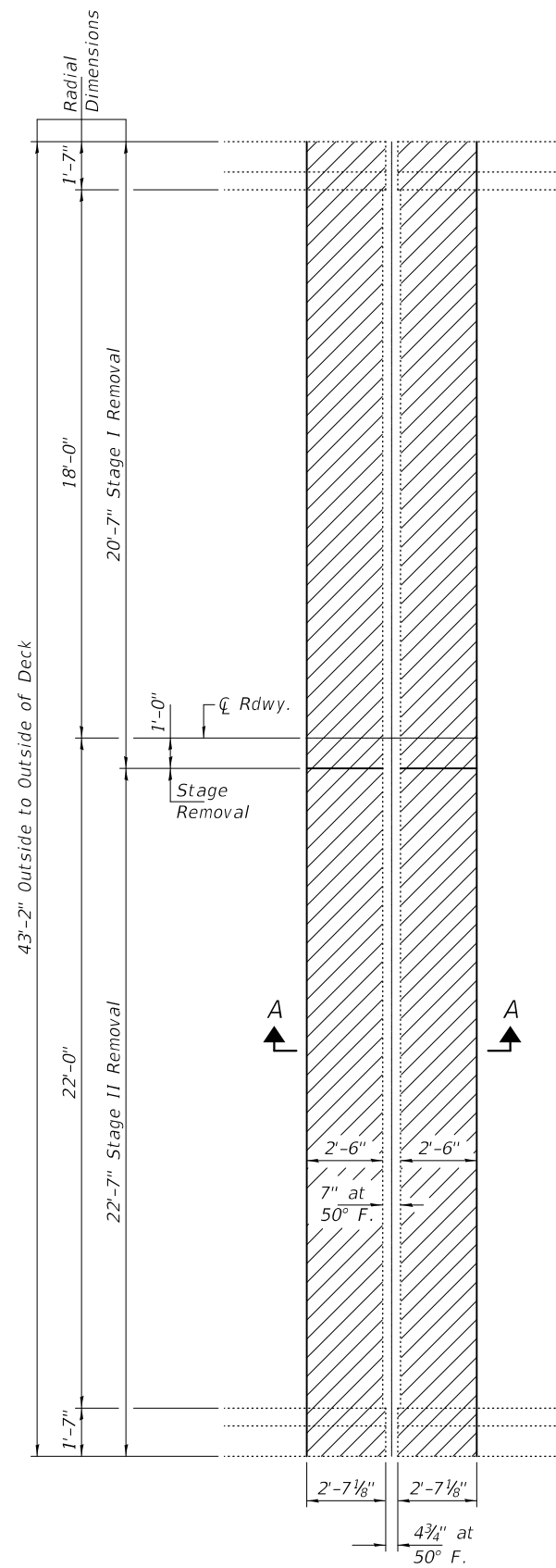
DATE - OCTOBER 5, 2018  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

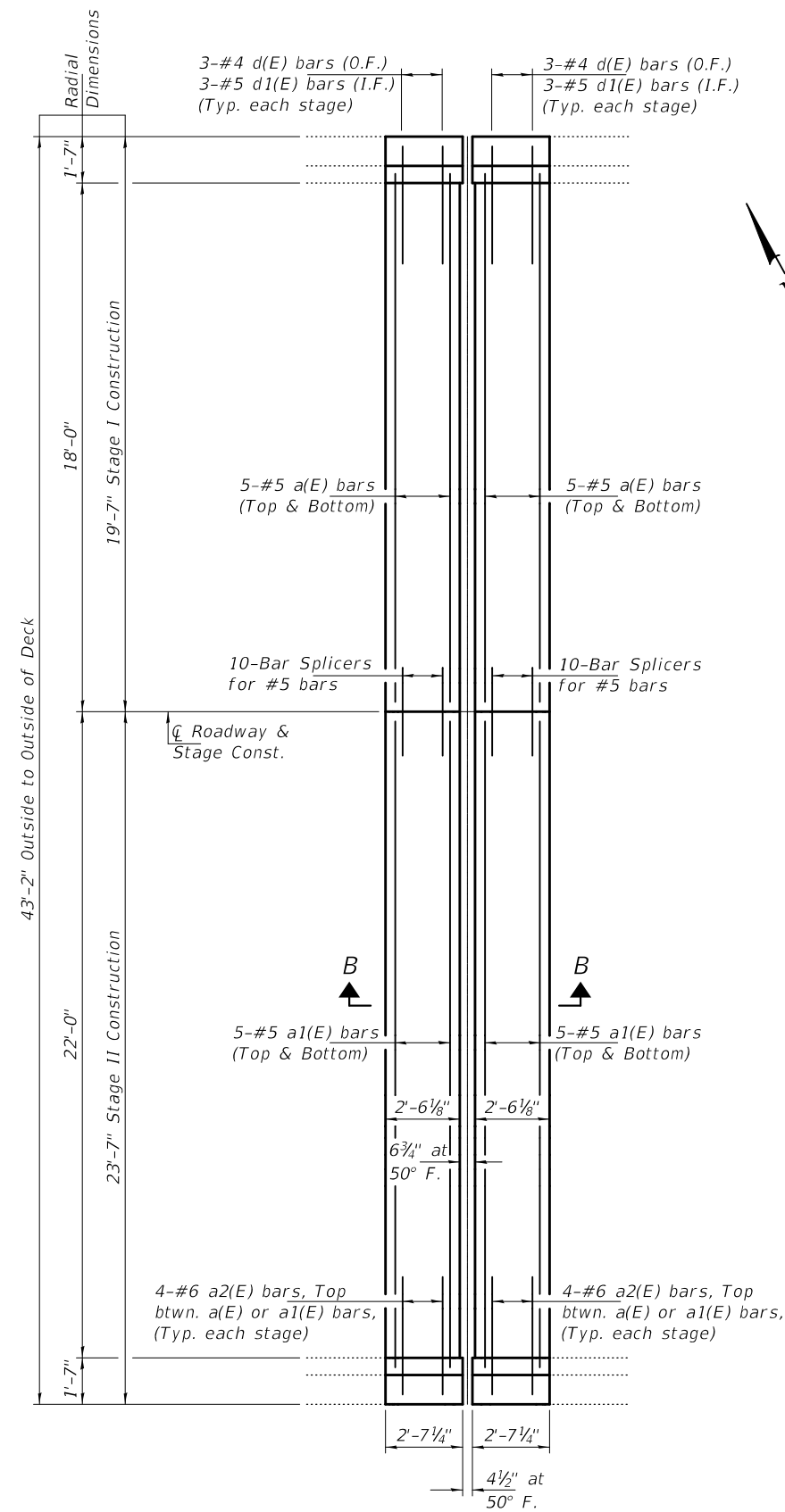
PIER 4 JOINT REMOVAL & REPLACEMENT DETAILS  
SN 075-0099 (W.B.)

SHEET 6 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	31
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				

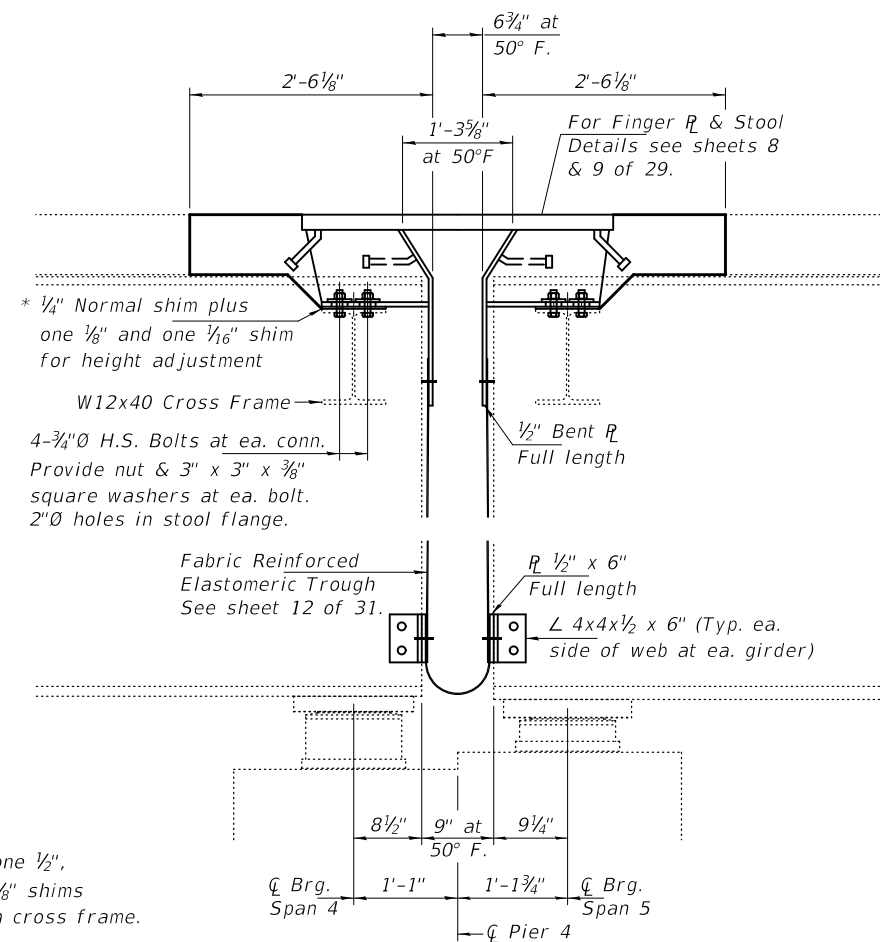
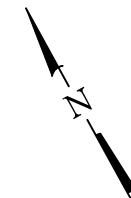


CONCRETE REMOVAL PLAN

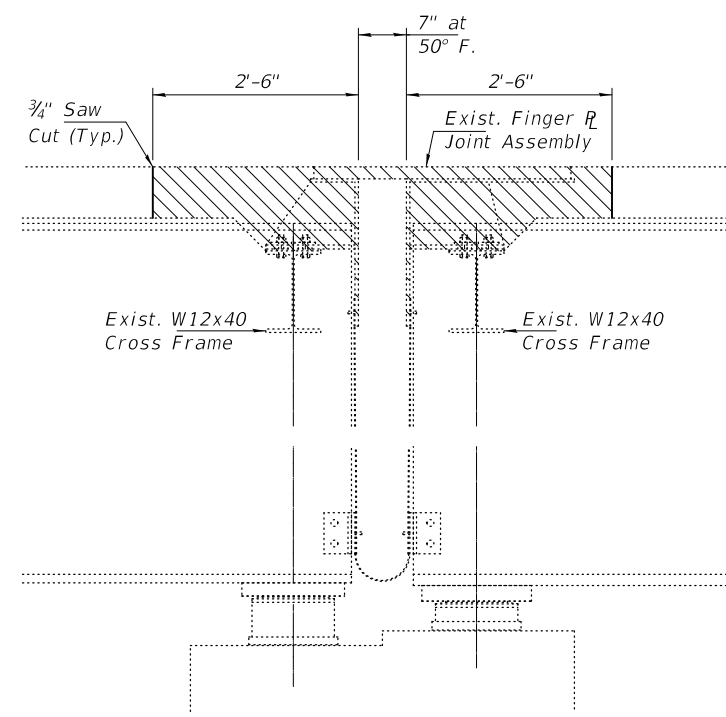


CONCRETE REPLACEMENT PLAN

Notes:  
Hatched areas indicate Concrete Removal.  
For Parapet Details & Reinforcement Details see sheet 4 of 31.



SECTION B-B



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	20	#5	18'-6"	—
a1(E)	20	#5	22'-6"	—
a2(E)	16	#6	4'-0"	—
d(E)	12	#4	5'-2"	L
d1(E)	12	#5	3'-11"	L
Concrete Removal			Cu. Yd.	7.7
Concrete Superstructure			Cu. Yd.	7.6
Bar Splicers			Each	20
Reinforcement Bars, Epoxy Coated			Pound	1040
Finger Plate Expansion Joint, 7"			Foot	40
Fabric Reinforced Elastomeric Trough			Foot	41

DESIGNED - JSB  
CHECKED - SMR  
DRAWN - STEFFEN  
CHECKED - JSB SMR

EXAMINED  
PASSED  
  
  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 5, 2018  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

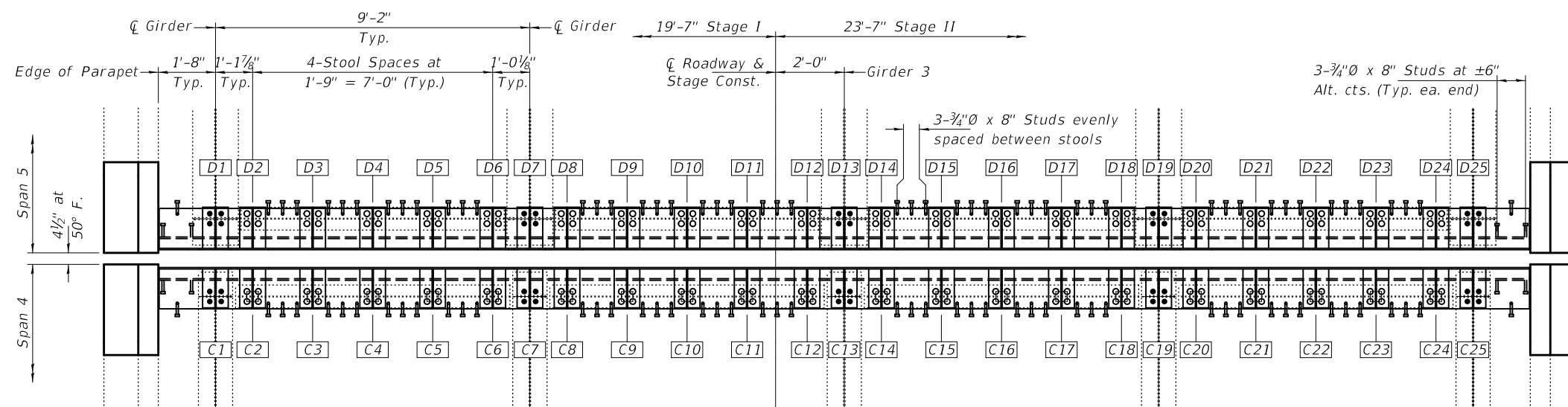
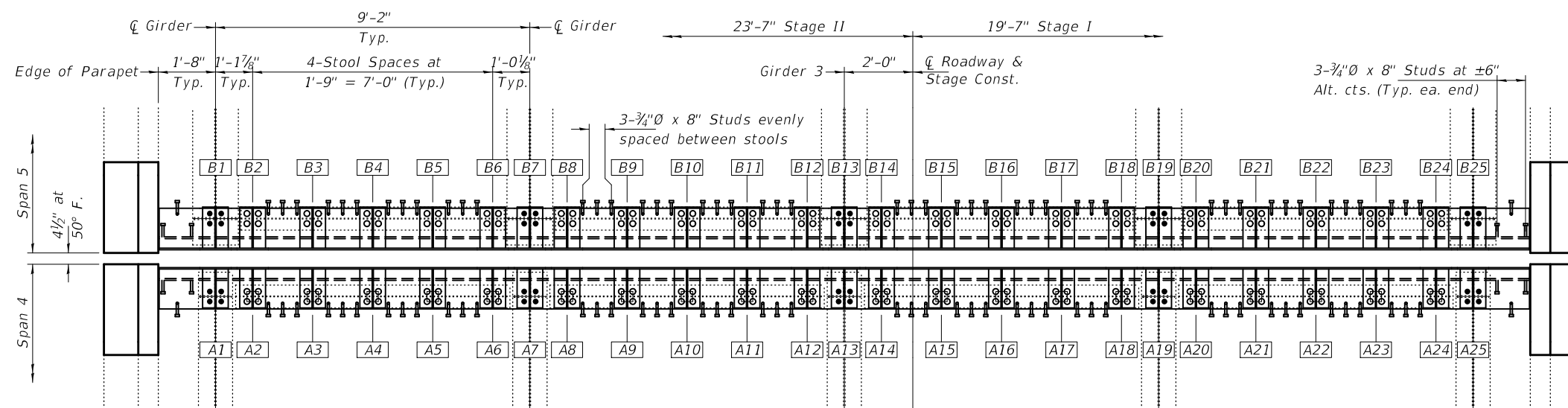
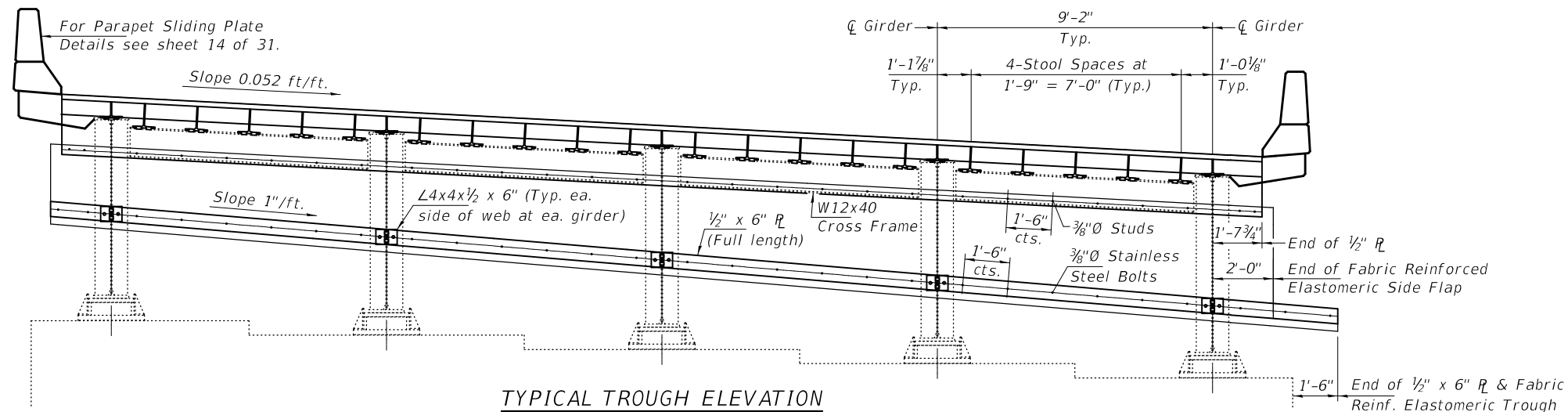
PIER 4 JOINT REMOVAL & REPLACEMENT DETAILS  
SN 075-0098 (E.B.)

SHEET 7 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	32
CONTRACT NO. 72K66				

ILLINOIS FED. AID PROJECT





DESIGNED - JSB  
 CHECKED - SMR  
 DRAWN - STEFFEN  
 CHECKED - JSB SMR

EXAMINED  
 PASSED  
*Timothy A. Daulton*  
 ENGINEER OF STRUCTURAL SERVICES  
*Carl R. Meyer*  
 ENGINEER OF BRIDGES AND STRUCTURES

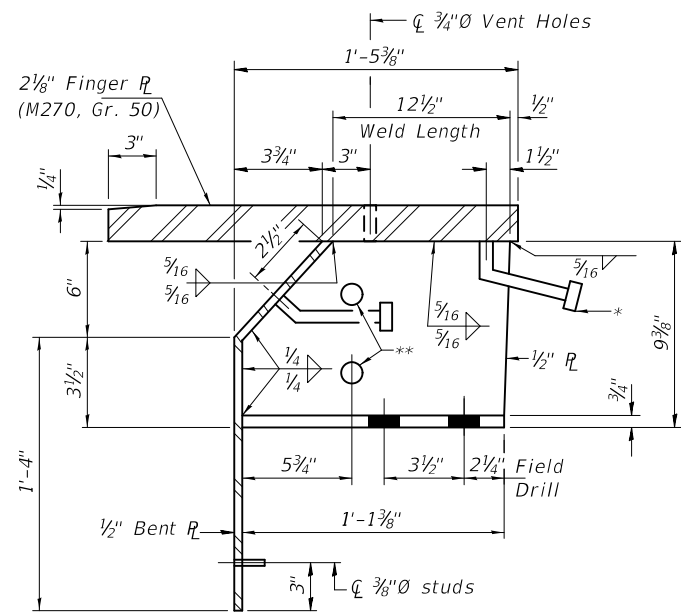
DATE - OCTOBER 5, 2018  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

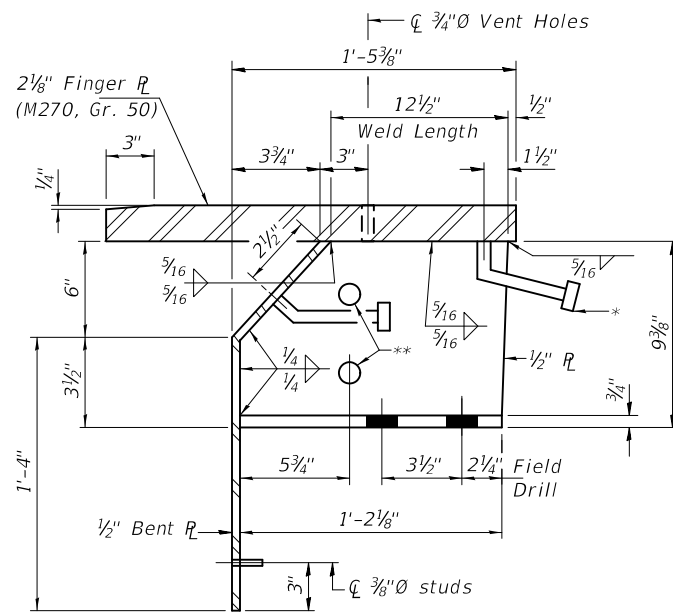
PIER 4 FINGER PLATE PLAN AND TROUGH ELEVATION  
 SN 075-0098 (E.B.) & -0099 (W.B.)

SHEET 8 OF 31 SHEETS

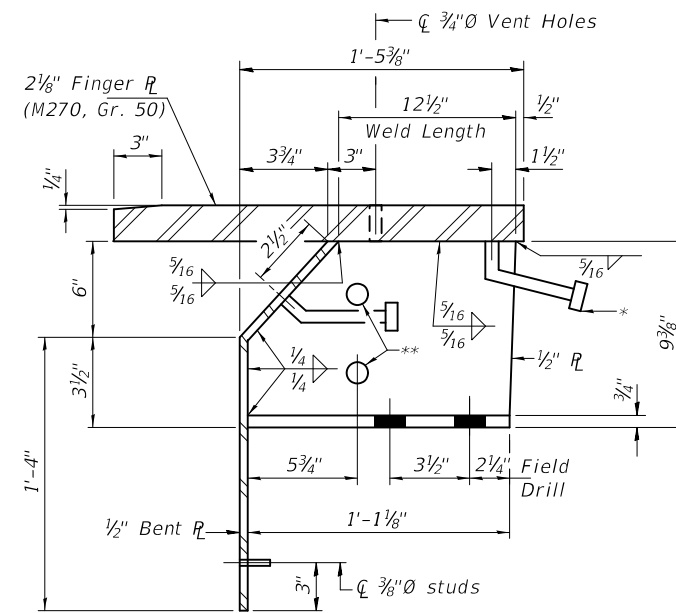
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	33
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				



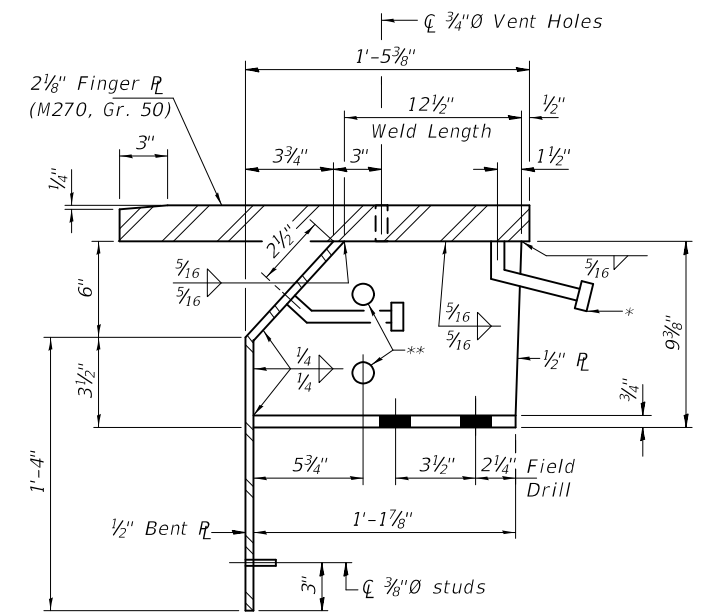
**STOOL "A" DETAILS  
AT CROSS FRAME**  
(20-Required)



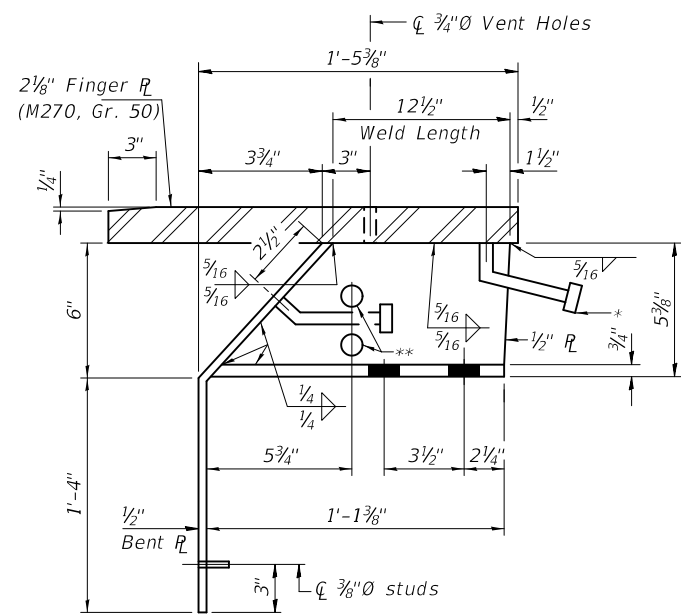
**STOOL "B" DETAILS  
AT CROSS FRAME**  
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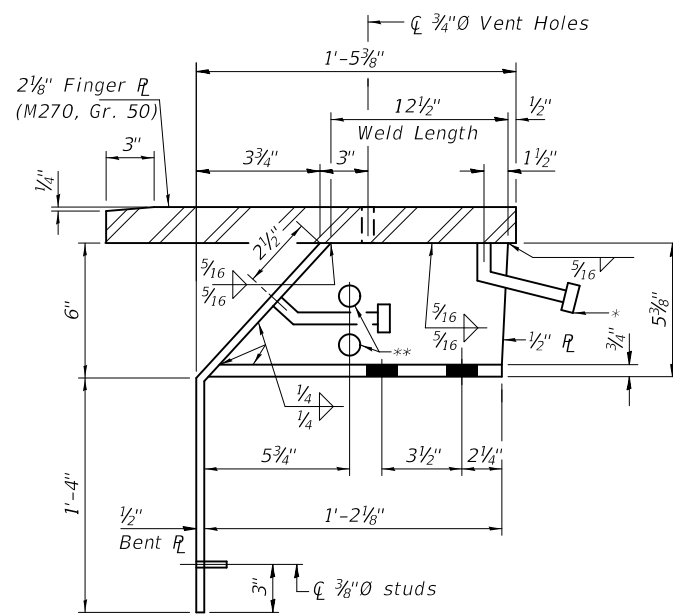
**STOOL "C" DETAILS  
AT CROSS FRAME**  
(20-Required)



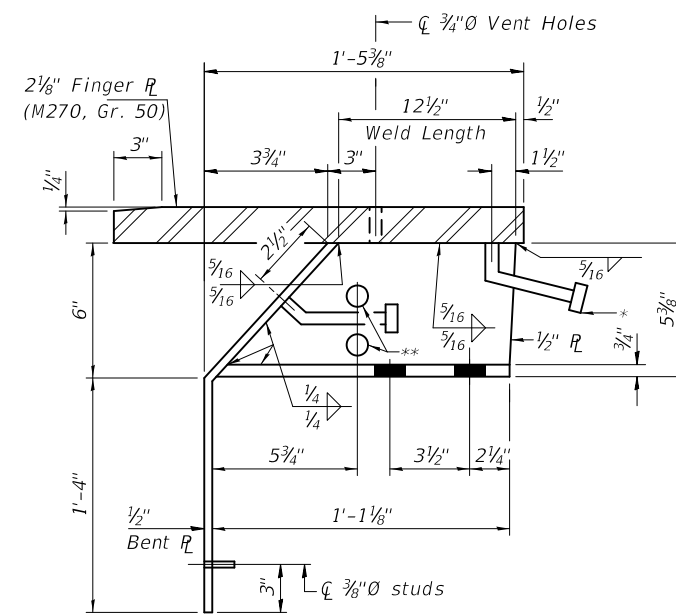
**STOOL "D" DETAILS  
AT CROSS FRAME**  
(20-Required)



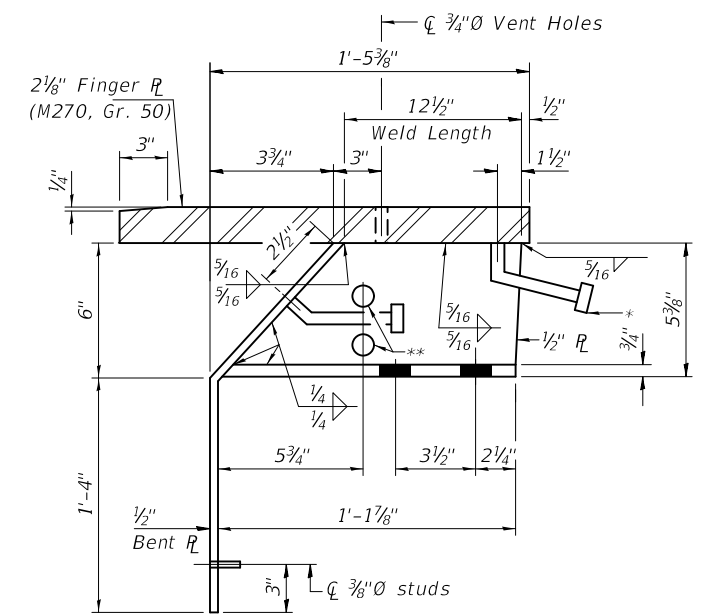
**STOOL "A" DETAILS  
AT GIRDERS**  
(5-Required)



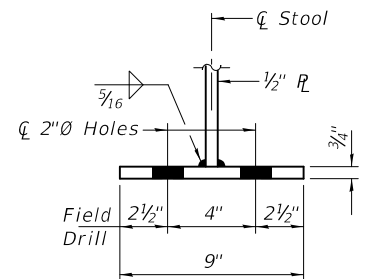
**STOOL "B" DETAILS  
AT GIRDERS**  
(5-Required)



**STOOL "C" DETAILS  
AT GIRDERS**  
(5-Required)



**STOOL "D" DETAILS  
AT GIRDERS**  
(5-Required)



**SECTION THRU  
STOOLS "A", "B", "C" & "D"**

\* 3/4" x 8" granular or solid flux filled headed studs conforming to Art. 1006.32 of the Std. Specs. automatically end welded.

\*\* Drill 1" holes in stools for transverse reinforcement. String reinforcement prior to installing Finger Plate Jt. (Dims. at Rt. L's)

DESIGNED - JSB	EXAMINED - <i>Timothy A. Dredger</i>
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES
DRAWN - STEFFEN	PASSED - <i>Carl Ringer</i>
CHECKED - JSB SMR	ENGINEER OF BRIDGES AND STRUCTURES

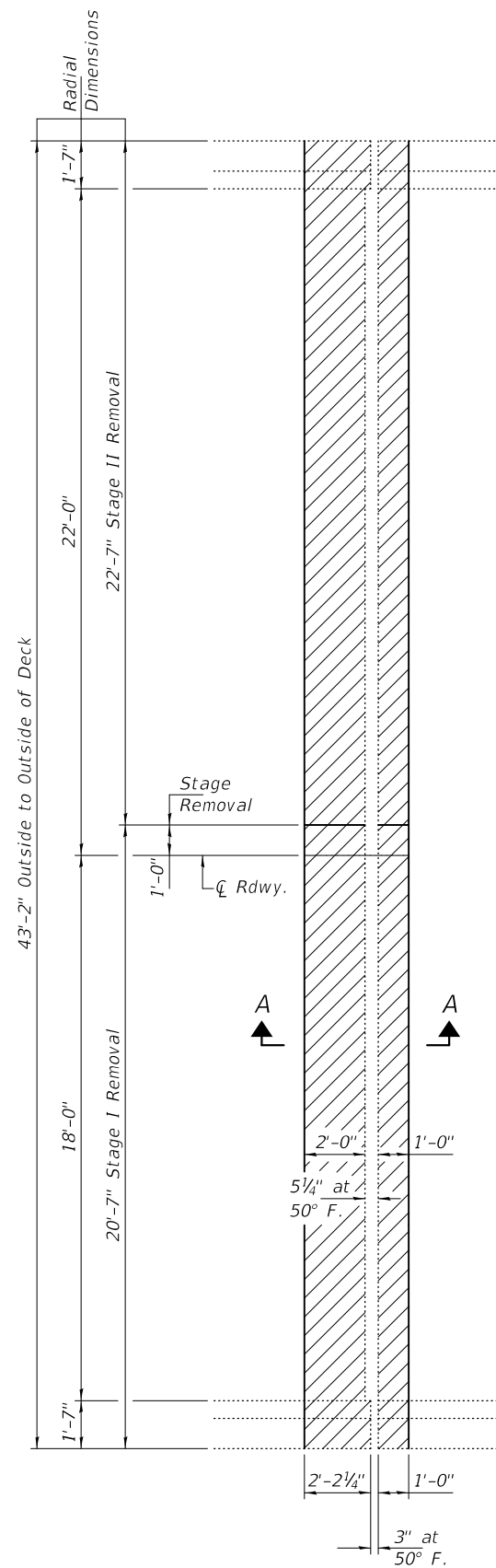
DATE - OCTOBER 5, 2018
REVISED -
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

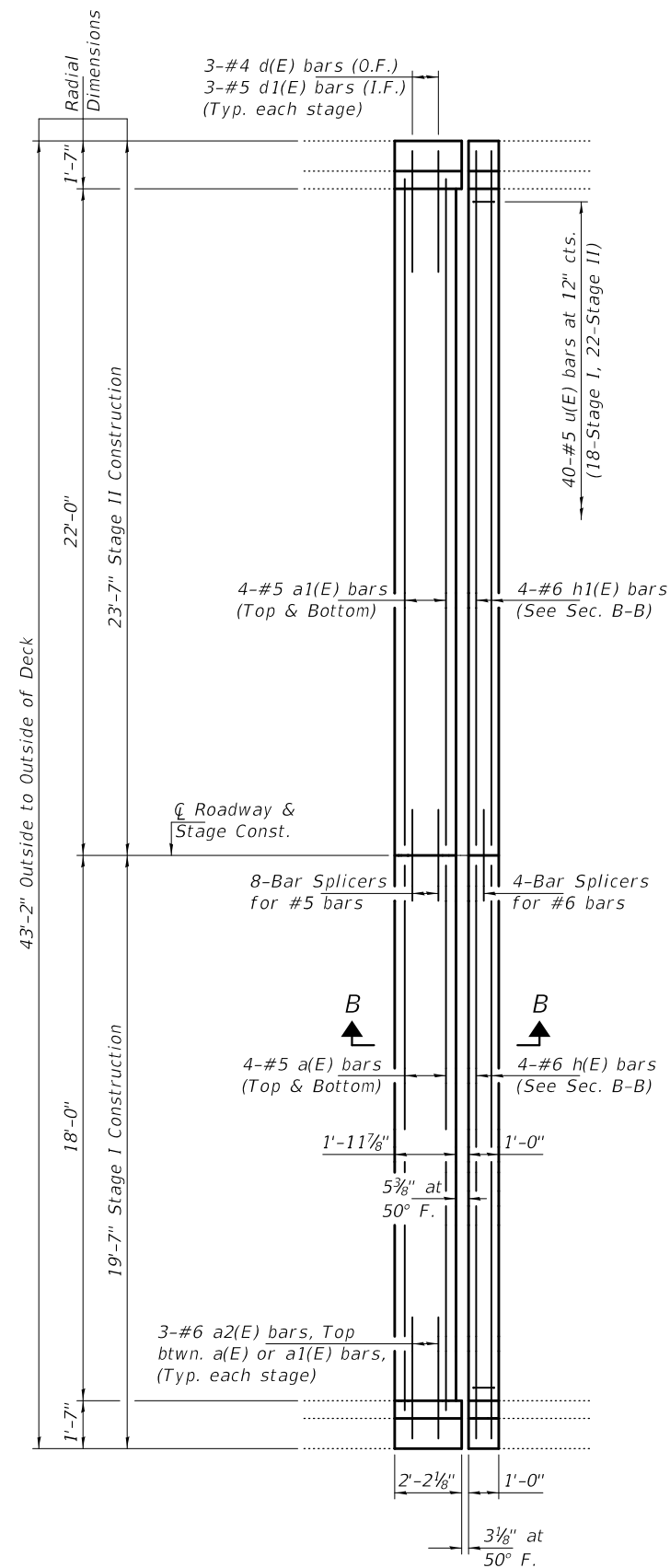
**PIER 4 STOOL & FINGER PLATE DETAILS  
SN 075-0098 (E.B.) & -0099 (W.B.)**

SHEET 9 OF 31 SHEETS

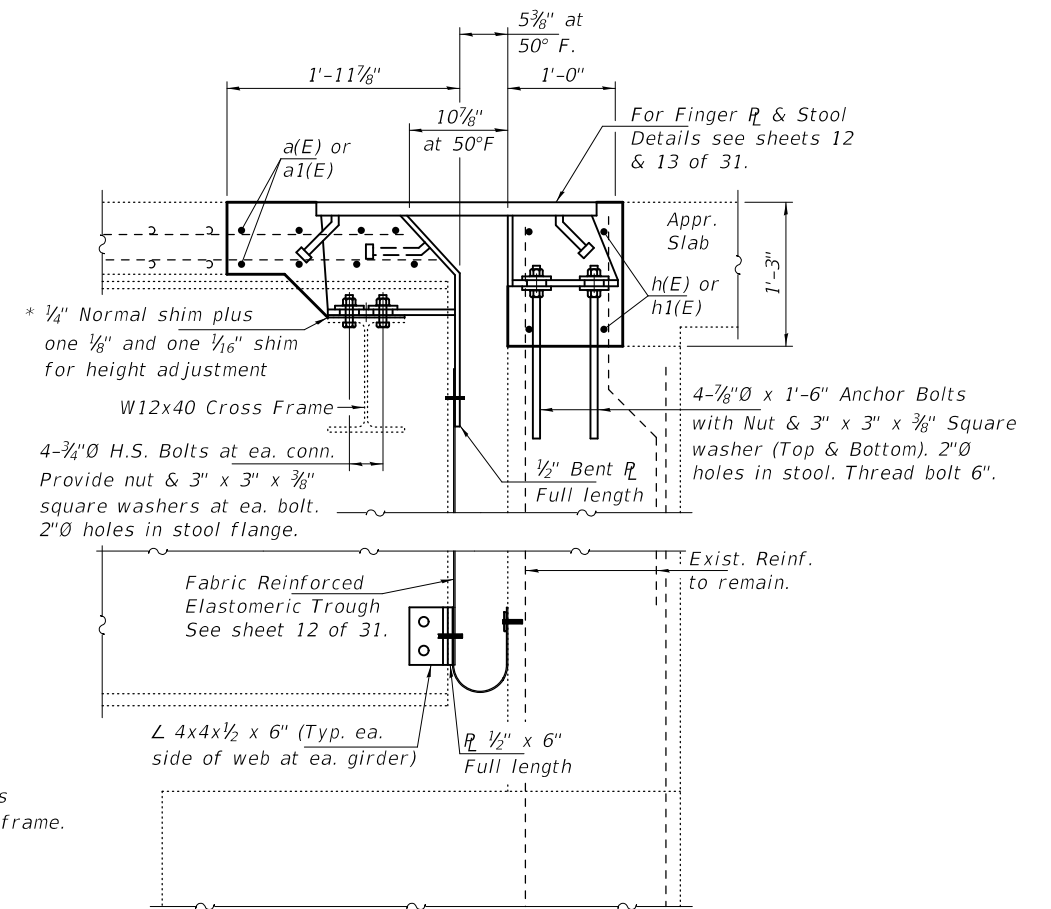
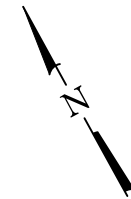
F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 34
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



**CONCRETE REMOVAL PLAN**

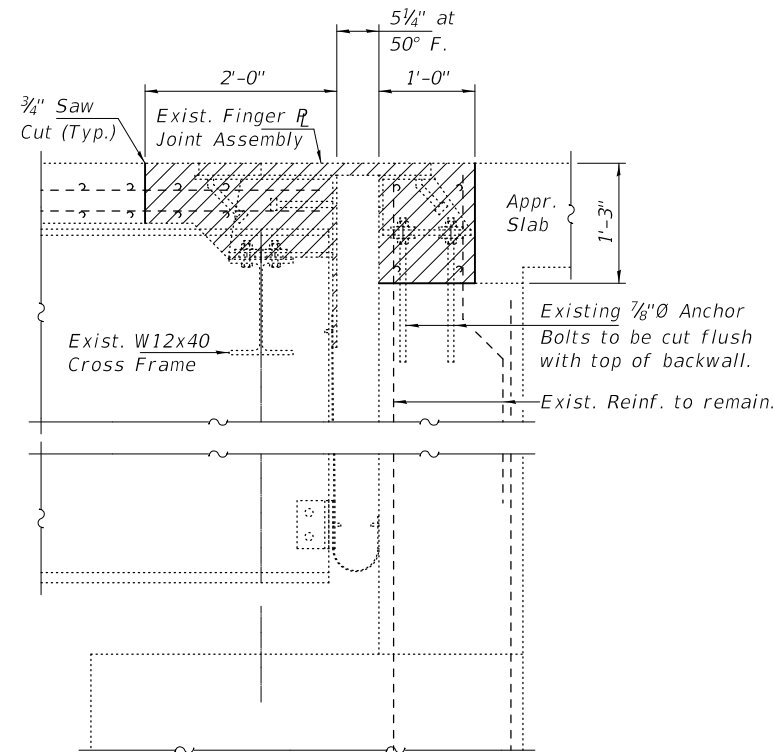


**CONCRETE REPLACEMENT PLAN**



**SECTION B-B**

\* Additional shim pack of one 1/2\", one 3/8\", one 1/4\" and one 1/8\" shims shall be provided at each cross frame.



**SECTION A-A**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	8	#5	18'-6"	—
a1(E)	8	#5	22'-6"	—
a2(E)	6	#6	4'-0"	—
d(E)	6	#4	5'-2"	L
d1(E)	6	#5	3'-11"	L
h(E)	4	#6	19'-3"	—
h1(E)	4	#6	23'-3"	—
u(E)	40	#5	1'-10"	U
Concrete Removal			Cu. Yd.	5.5
Concrete Superstructure			Cu. Yd.	5.4
Bar Splicers			Each	12
Reinforcement Bars, Epoxy Coated			Pound	760
Finger Plate Expansion Joint, 5'			Foot	40
Fabric Reinforced Elastomeric Trough			Foot	41

DESIGNED - JSB  
 CHECKED - SMR  
 DRAWN - STEFFEN  
 CHECKED - JSB SMR

EXAMINED  
 PASSED  
 ENGINEER OF STRUCTURAL SERVICES  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 5, 2018  
 REVISED -  
 REVISED -

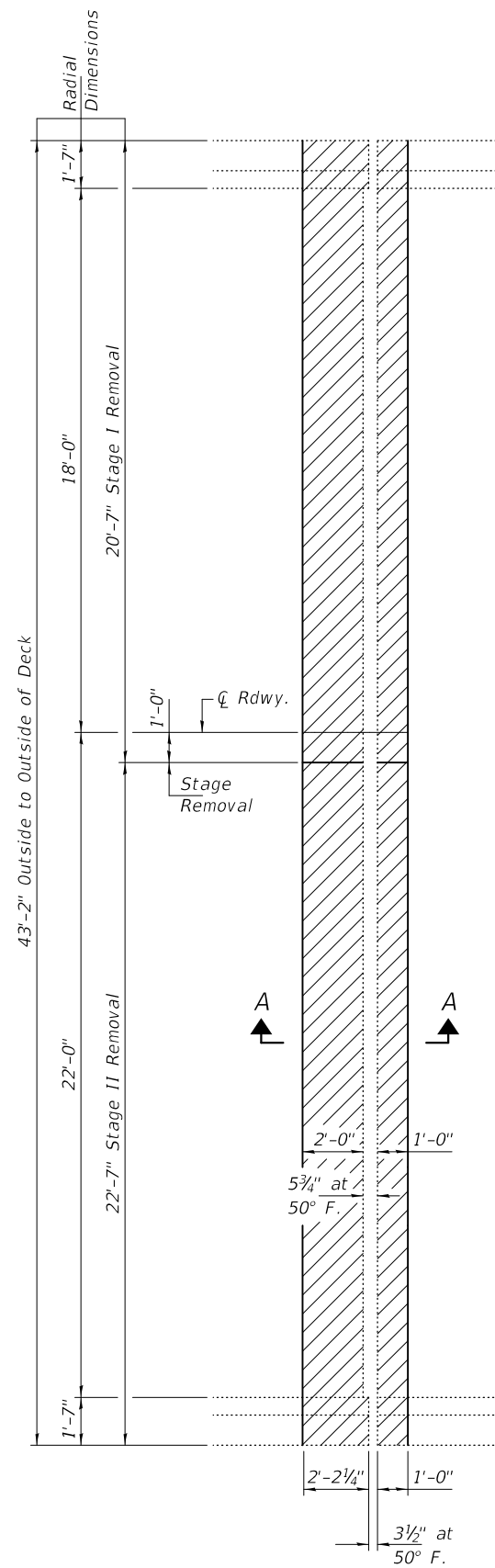
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST ABUT. JOINT REMOVAL & REPLACEMENT DETAILS  
 SN 075-0099 (W.B.)**

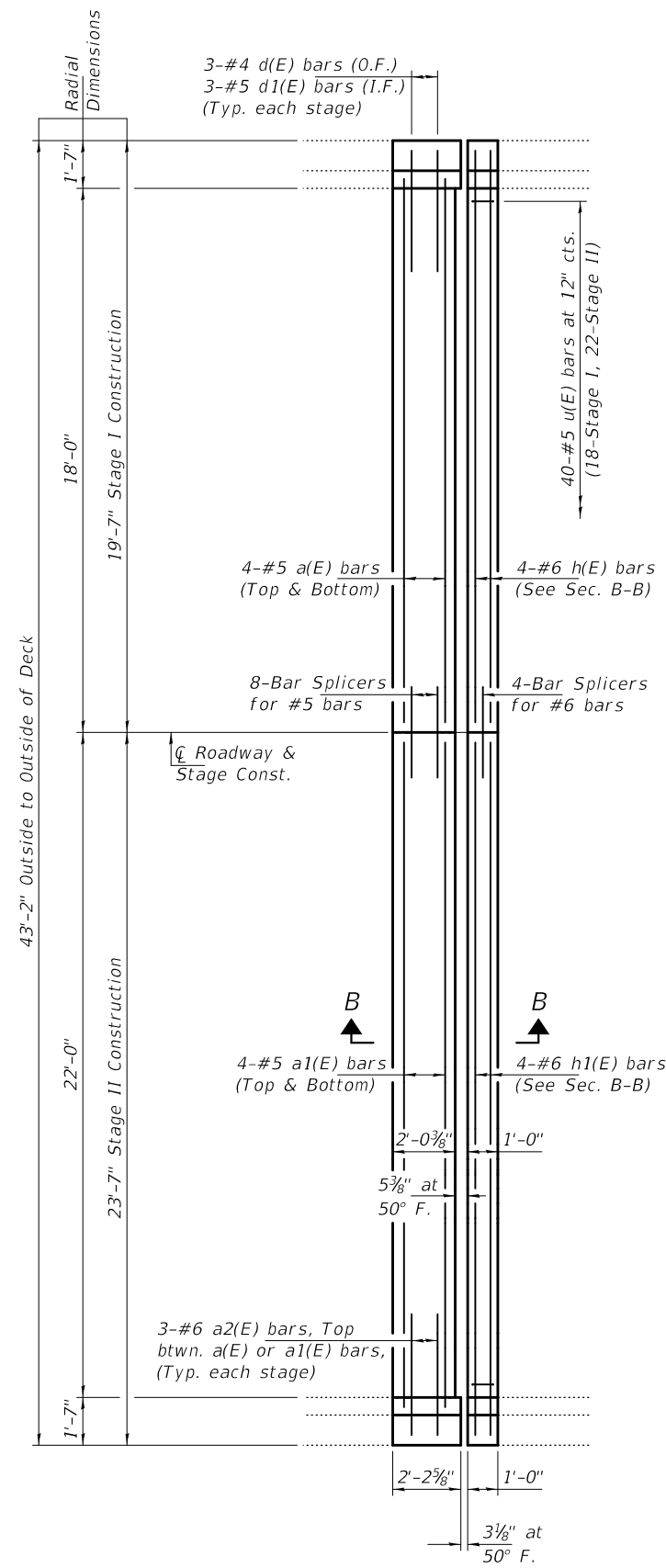
SHEET 10 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	35
CONTRACT NO. 72K66				

ILLINOIS FED. AID PROJECT

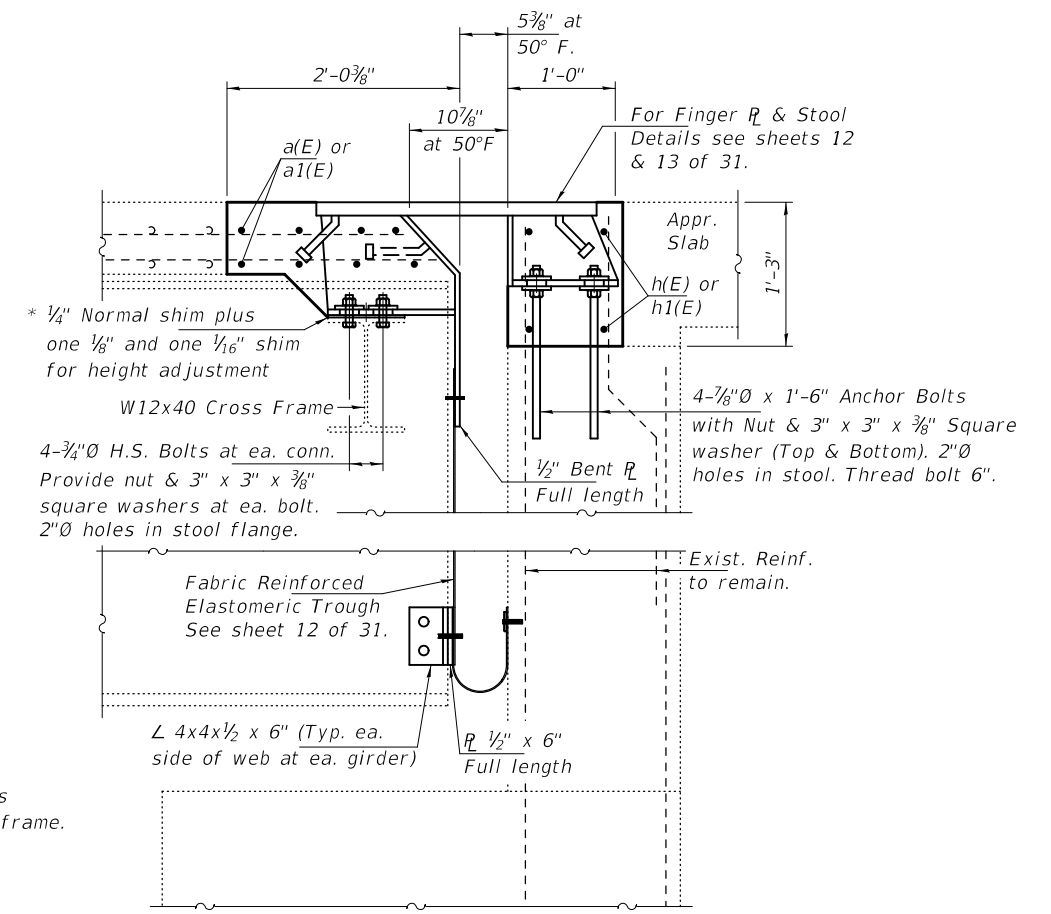
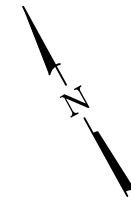


CONCRETE REMOVAL PLAN



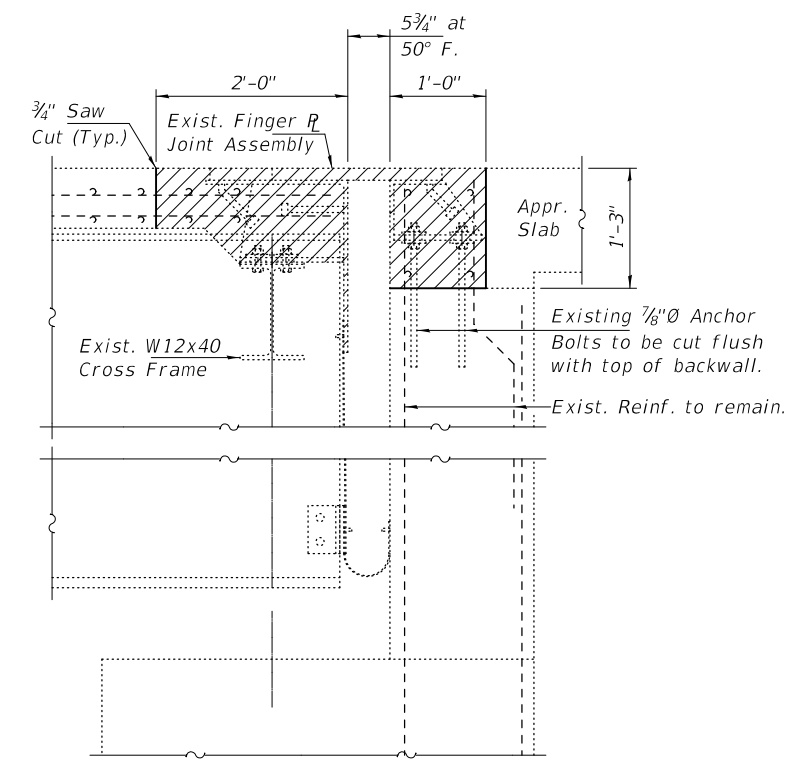
CONCRETE REPLACEMENT PLAN

Notes:  
Hatched areas indicate Concrete Removal.



SECTION B-B

\* Additional shim pack of one 1/2", one 3/8", one 1/4" and one 1/8" shims shall be provided at each cross frame.



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#5	18'-6"	—
a1(E)	8	#5	22'-6"	—
a2(E)	6	#6	4'-0"	—
d(E)	6	#4	5'-2"	L
d1(E)	6	#5	3'-11"	L
h(E)	4	#6	19'-3"	—
h1(E)	4	#6	22'-3"	—
u(E)	40	#5	1'-10"	U
Concrete Removal			Cu. Yd.	5.5
Concrete Superstructure			Cu. Yd.	5.5
Bar Splicers			Each	12
Reinforcement Bars, Epoxy Coated			Pound	760
Finger Plate Expansion Joint, 5"			Foot	40
Fabric Reinforced Elastomeric Trough			Foot	41

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i>	DATE - OCTOBER 5, 2018
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - <i>Carl Ringer</i>	REVISER -
CHECKED - JSB SMR	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -

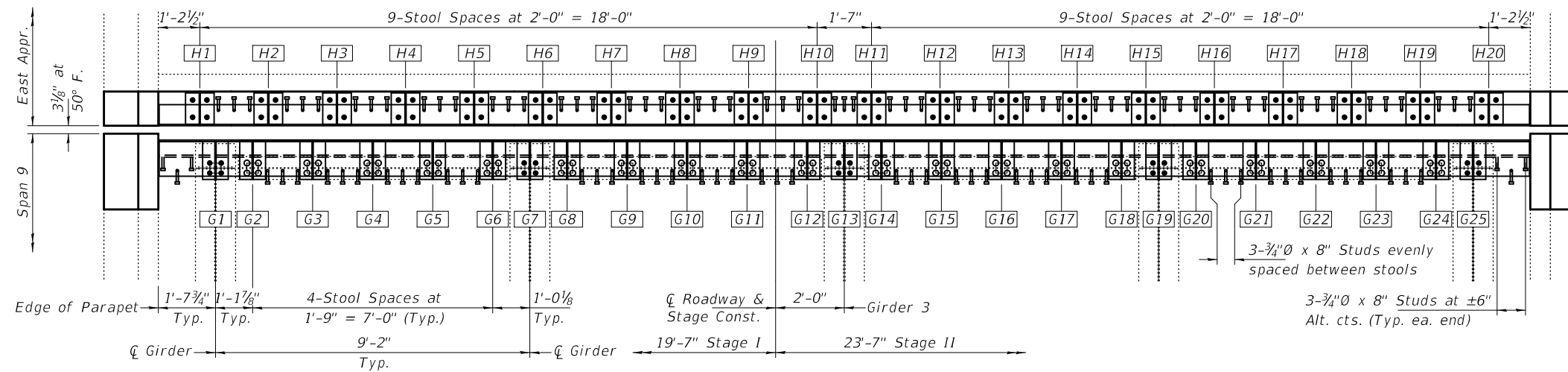
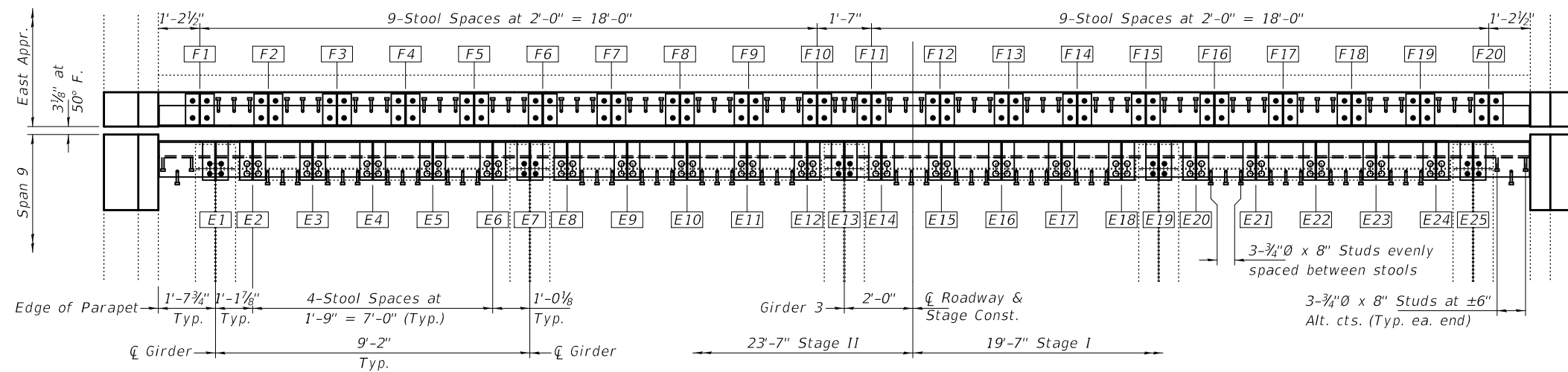
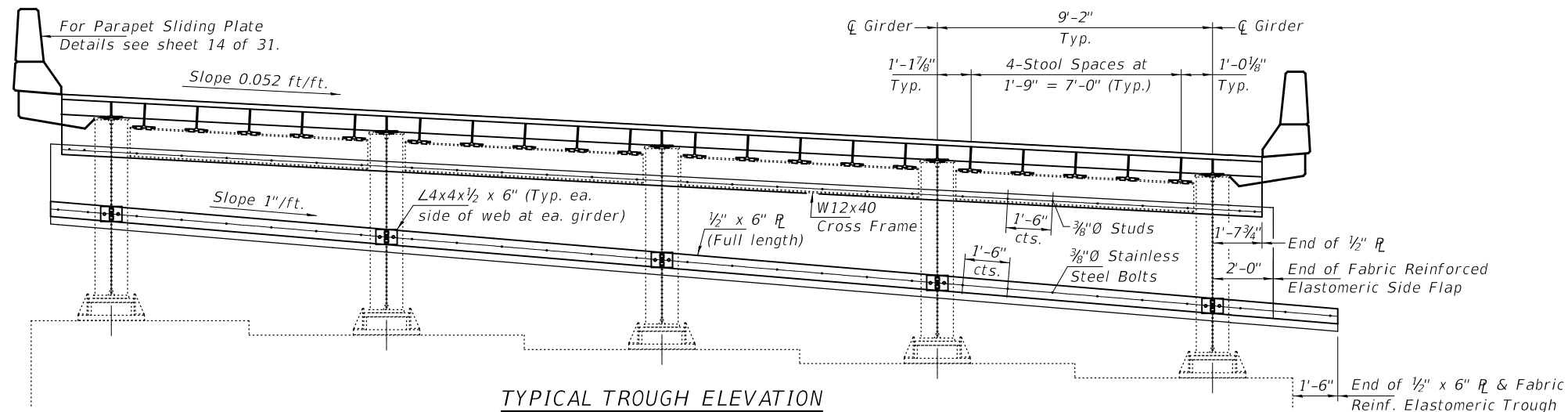
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST ABUT. JOINT REMOVAL & REPLACEMENT DETAILS  
SN 075-0098 (E.B.)

SHEET 11 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	36
CONTRACT NO. 72K66				

ILLINOIS FED. AID PROJECT



DESIGNED - JSB  
 CHECKED - SMR  
 DRAWN - STEFFEN  
 CHECKED - JSB SMR

EXAMINED  
 PASSED  
*Timothy A. Daulton*  
 ENGINEER OF STRUCTURAL SERVICES  
*Carl R. Meyer*  
 ENGINEER OF BRIDGES AND STRUCTURES

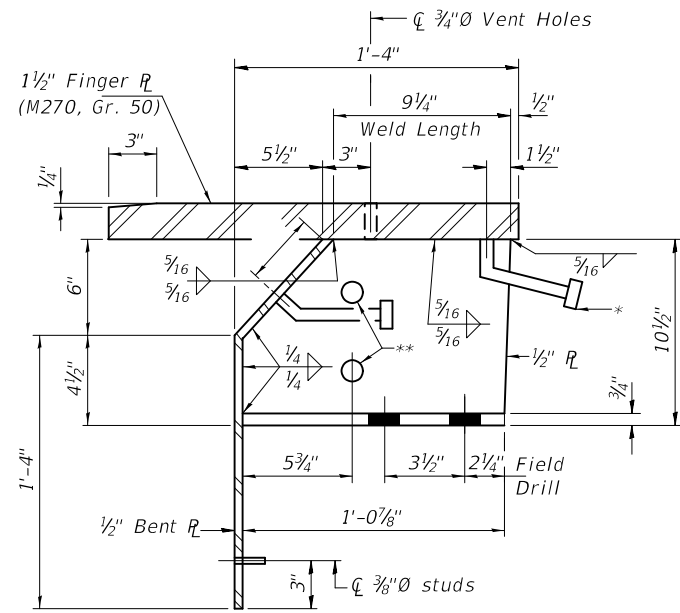
DATE - OCTOBER 5, 2018  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

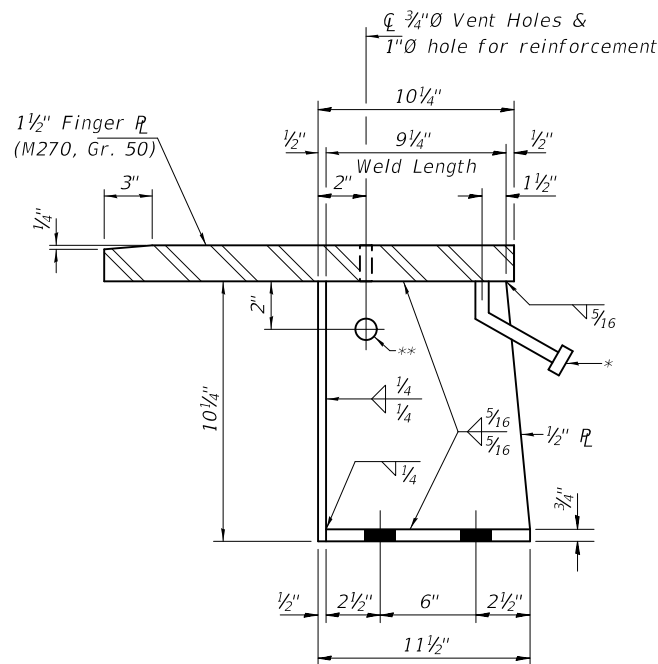
E. ABUT. FINGER PLATE PLAN AND TROUGH ELEVATION  
 SN 075-0098 (E.B.) & -0099 (W.B.)

SHEET 12 OF 31 SHEETS

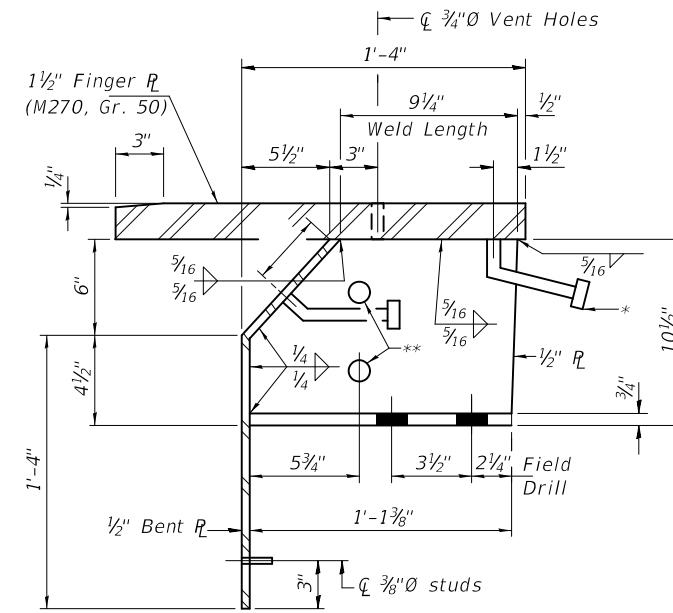
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	37
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				



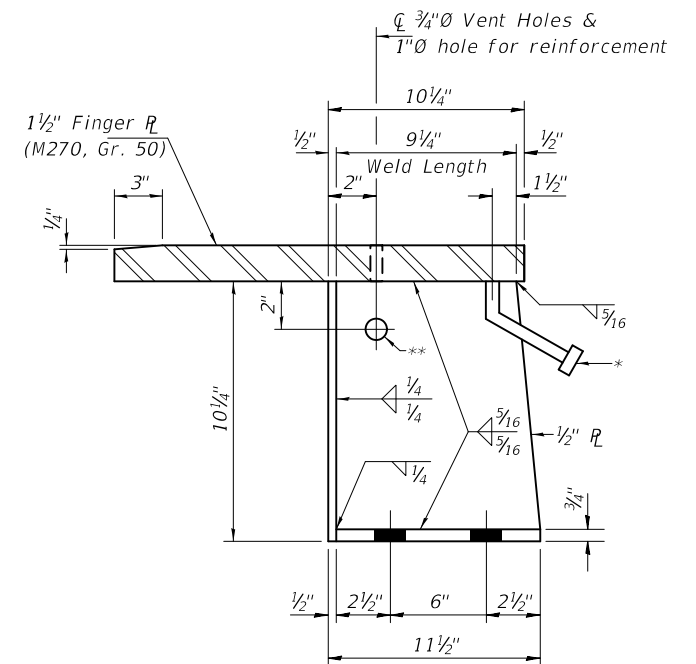
**STOOL "E" DETAILS  
AT CROSS FRAMES**  
(20-Required)



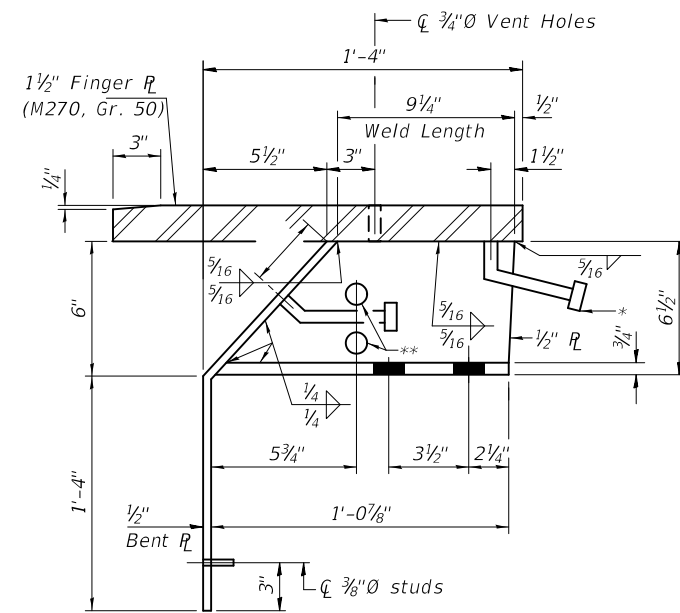
**STOOL "F" DETAILS**  
(20-Required)



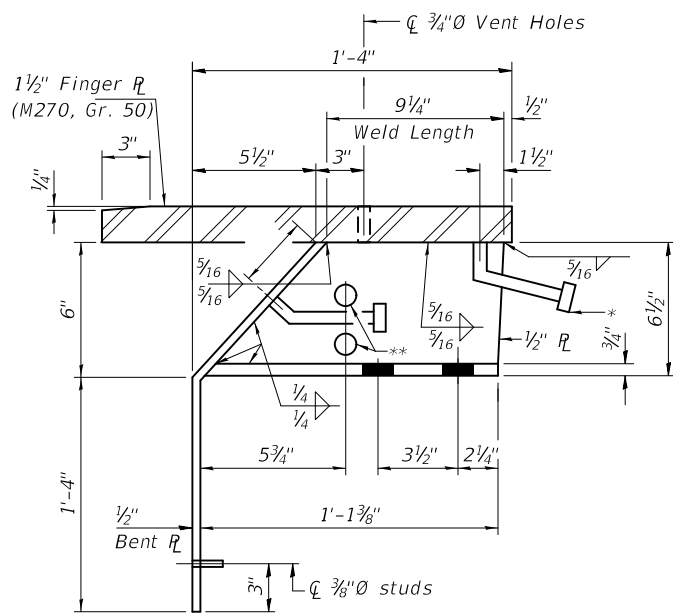
**STOOL "G" DETAILS  
AT CROSS FRAMES**  
(20-Required)



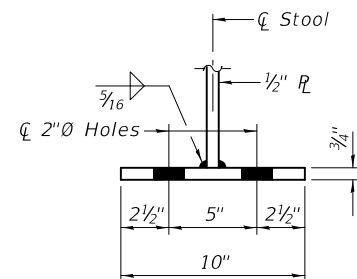
**STOOL "H" DETAILS**  
(20-Required)



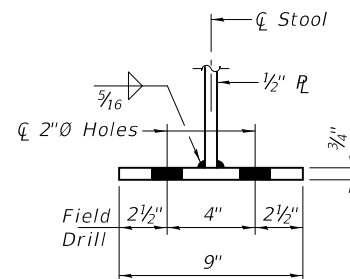
**STOOL "E" DETAILS  
AT GIRDERS**  
(5-Required)



**STOOL "G" DETAILS  
AT GIRDERS**  
(5-Required)



**SECTION THRU  
STOOLS "F" & "H"**



**SECTION THRU  
STOOLS "E" & "G"**

\* 3/4" x 8" granular or solid flux filled headed studs conforming to Art. 1006.32 of the Std. Specs. automatically end welded.

\*\* Drill 1" holes in stools for transverse reinforcement. String reinforcement prior to installing Finger R Jt. (Dims. at Rt. L's)

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i>
CHECKED - SMR	ENGINEER OF STRUCTURAL SERVICES
DRAWN - STEFFEN	PASSED - <i>Carl Ringer</i>
CHECKED - JSB SMR	ENGINEER OF BRIDGES AND STRUCTURES

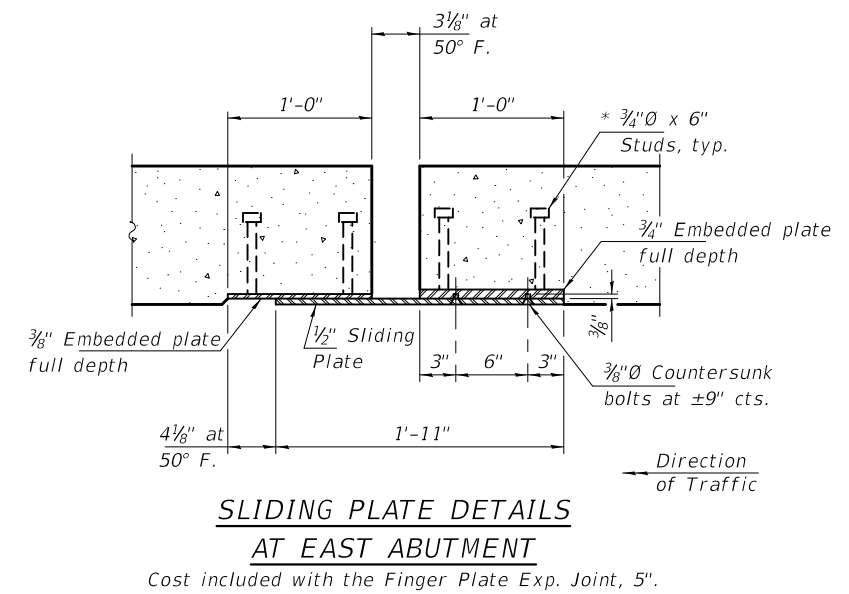
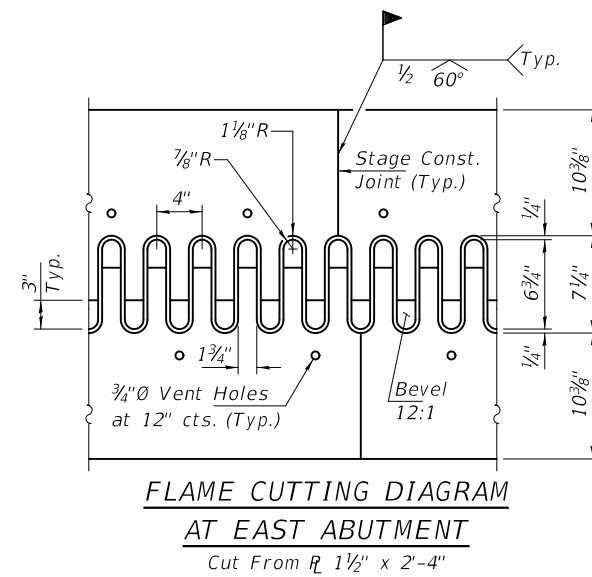
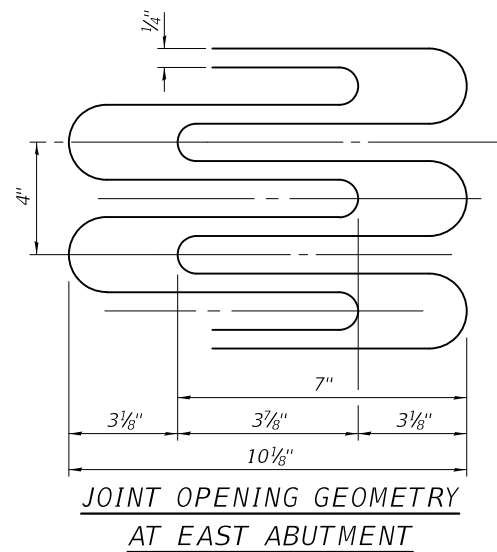
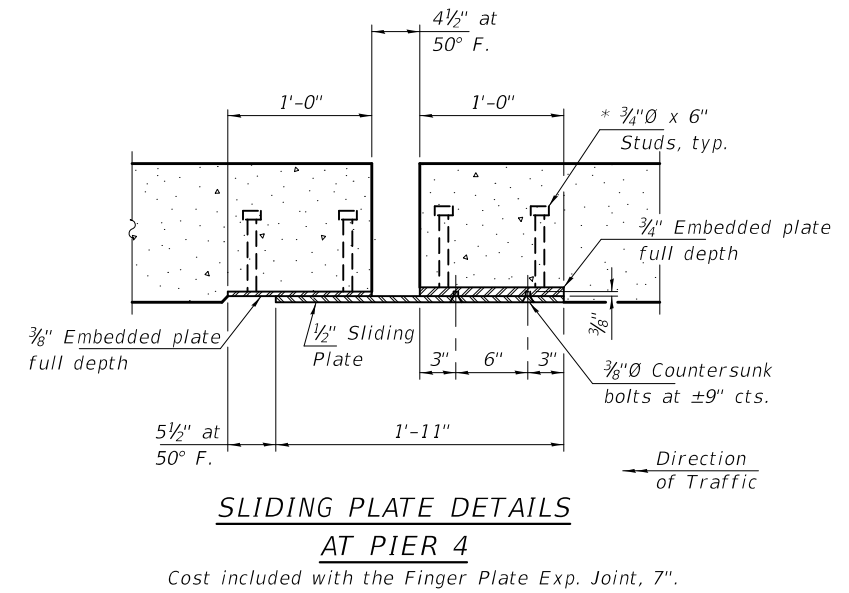
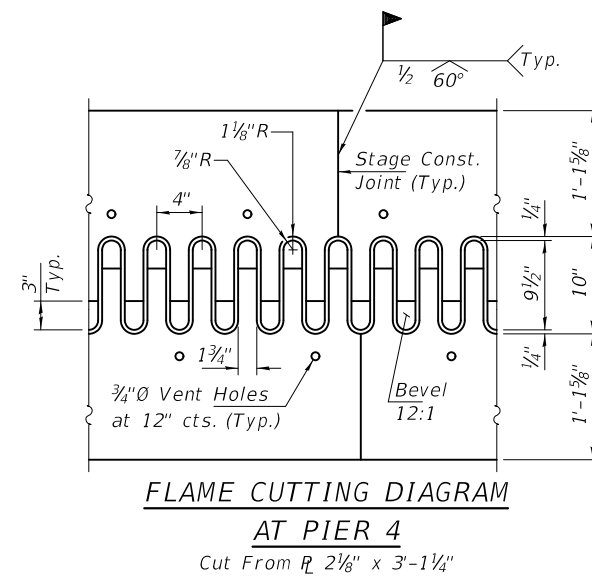
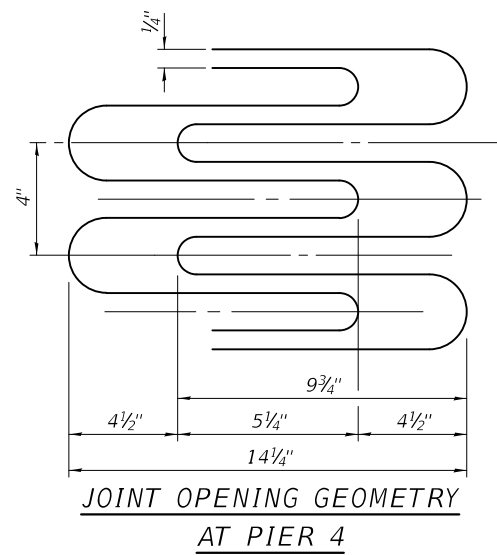
DATE - OCTOBER 5, 2018
REVISED -
REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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EAST ABUTMENT STOOL DETAILS SN 075-0098 (E.B.) & -0099 (W.B.)
--

F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 38
CONTRACT NO. 72K66				

SHEET 13 OF 31 SHEETS				
ILLINOIS FED. AID PROJECT				



Note:  
See sheet 5 of 31 for Trimetric  
and Elevation views at Parapet.

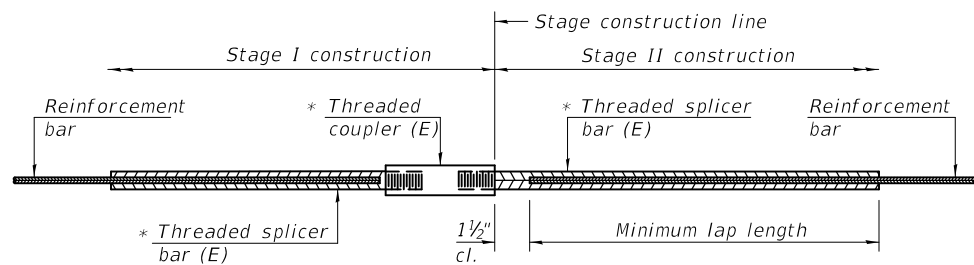
DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FINGER PLATE DETAILS  
SN 075-0098 (E.B.) & -0099 (W.B.)

SHEET 14 OF 31 SHEETS

F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 39
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



**STANDARD BAR SPLICER ASSEMBLY**

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

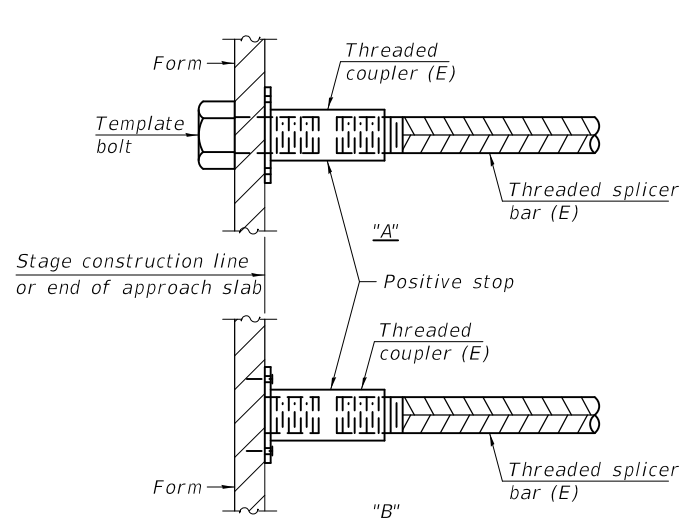
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

**SN 075-0098 (E.B.)**

Location	Bar size	No. assemblies required	Minimum lap length
W. Abut. Hatch	#6	4	4'-0"
W. Abut. Deck	#5	8	3'-6"
Pier 4	#5	20	3'-6"
E. Abut. Deck	#5	8	3'-6"
E. Abut. Hatch	#6	4	4'-0"

**SN 075-0099 (W.B.)**

Location	Bar size	No. assemblies required	Minimum lap length
W. Abut. Hatch	#6	4	4'-0"
W. Abut. Deck	#5	8	3'-6"
Pier 4	#5	20	3'-6"
E. Abut. Deck	#5	8	3'-6"
E. Abut. Hatch	#6	4	4'-0"

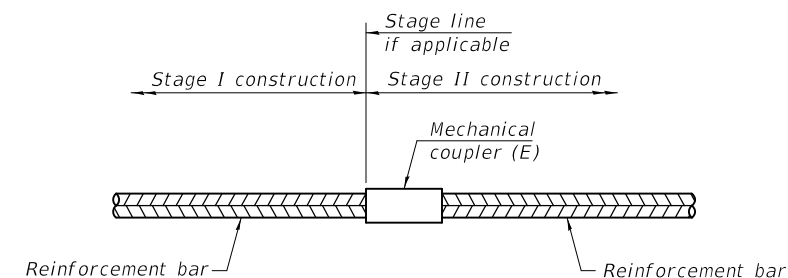


**INSTALLATION AND SETTING METHODS**

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

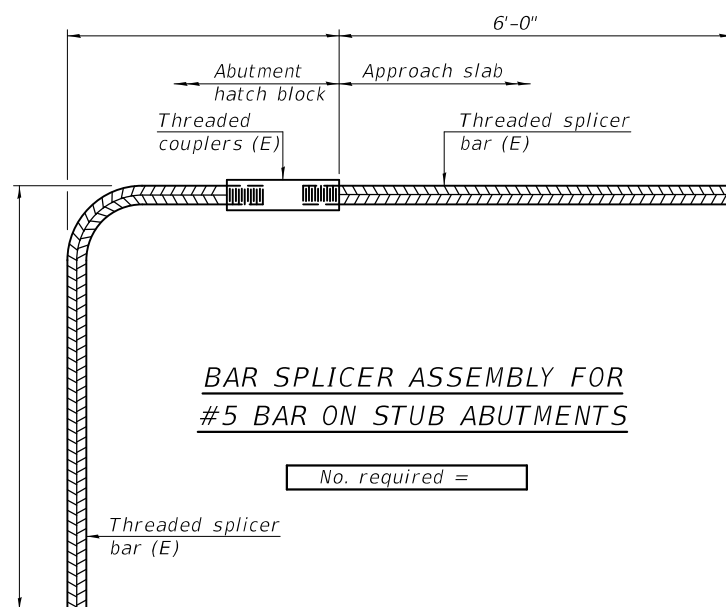
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. 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

2-17-2017

DESIGNED - JSB  
 CHECKED - SMR  
 DRAWN - STEFFEN  
 CHECKED - JSB SMR

EXAMINED  
 PASSED

Timothy A. [Signature]  
 ENGINEER OF STRUCTURAL SERVICES  
 [Signature]  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 5, 2018

REVISED -  
 REVISED -

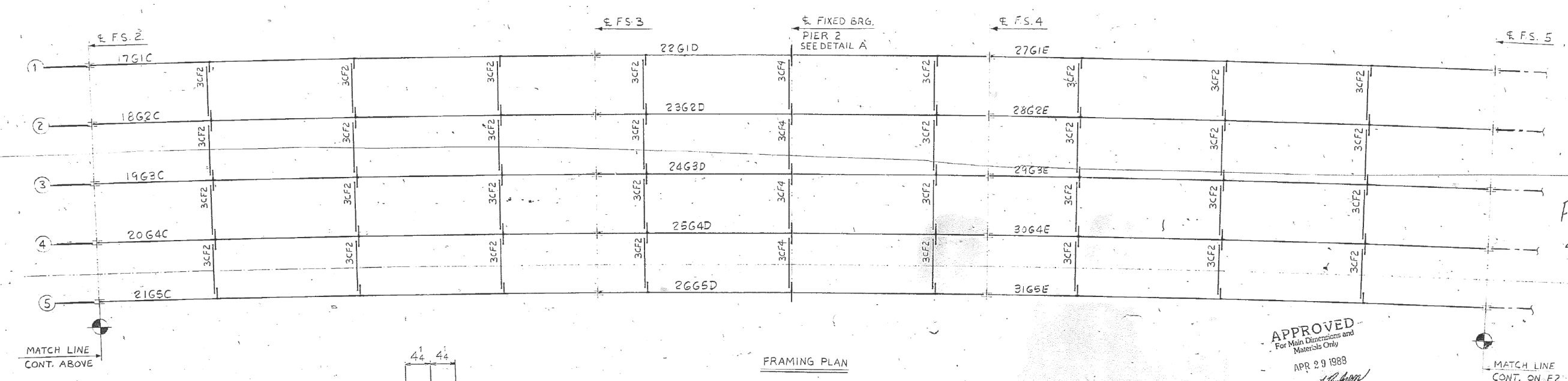
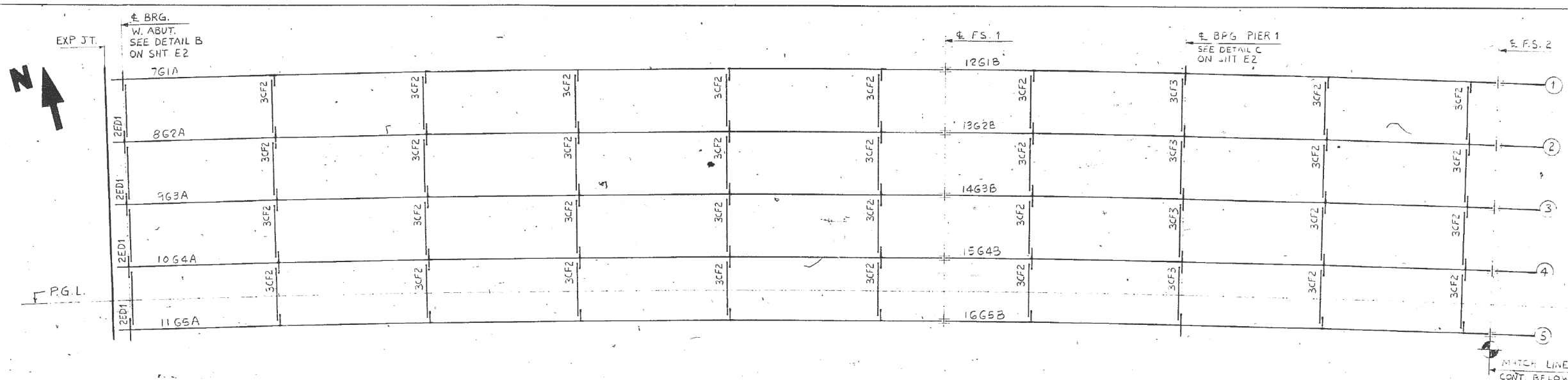
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 SN 075-0098 (E.B.) & -0099 (W.B.)

SHEET 15 OF 31 SHEETS

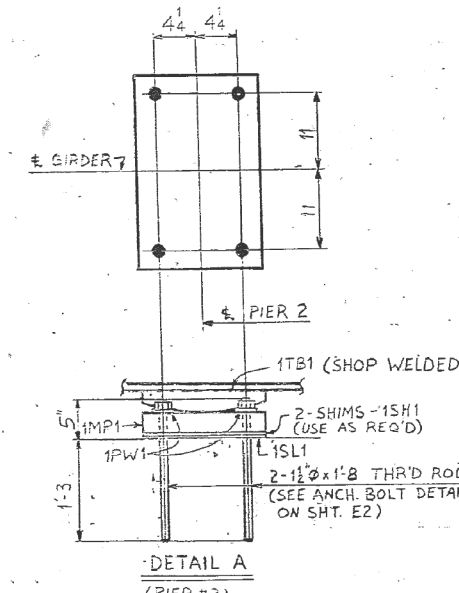
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	40
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				





*file set*

FA Route 408  
 Sec. 75-3 VHB-1  
 Pike County  
 C-96-059-87  
 Cont. # 42932  
 Str. No. 075-0098 (E.B.)  
 075-0099 (W.B.)



FOR INFORMATION ONLY

APPROVED  
 For Main Dimensions and Materials Only  
 APR 29 1988  
*James J. Ryan*  
 Engineer of Bridges & Structures

SHOP DRAWING REVIEW  
 No Exceptions taken   
 Exceptions taken as noted   
 Resubmit with corrections   
 Contractor is not relieved of responsibility for compliance with plans & specifications.  
 CRAWFORD, MURPHY & TILLY, INC.  
 By *RT* Date 4/28/88

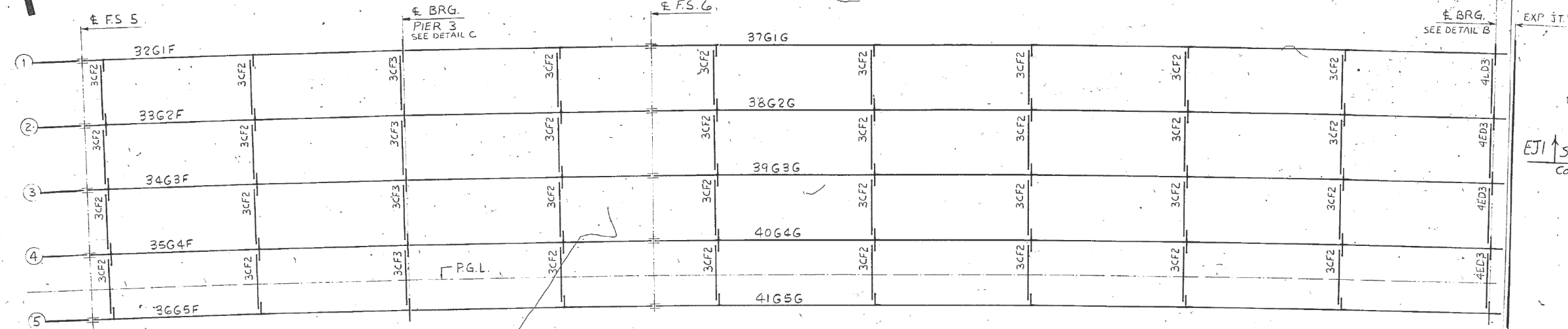
HARTWIG MFG. CORP. WAUSAU, WI 54401		SHEET NO. E1
CUSTOMER: SHAPIRO ENGINEERING		CONTRACT NO. 4945
LOCATION: PIKE COUNTY, ILLINOIS P.A. ROUTE 408		
STRUCTURE SEC. 75-3VHB-1		
PROJECT: RESUBMIT PLAN'S		
DETAILS OF FRAM. PLAN UNIT 1 W.B.		
SPEC. BY STATE OF ILLINOIS DEPT. OF TRANS.		

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

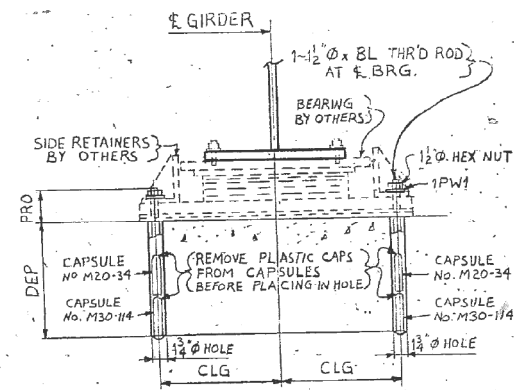
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHOP PLANS - FOR INFORMATION ONLY  
 SN 075-0098 (E.B.) & -0099 (W.B.)

F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 41
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	

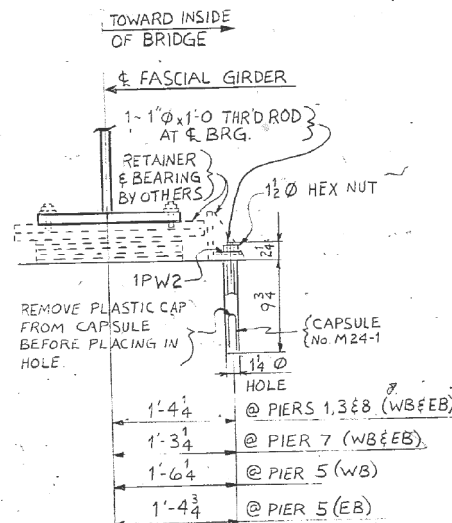


FRAMING PLAN

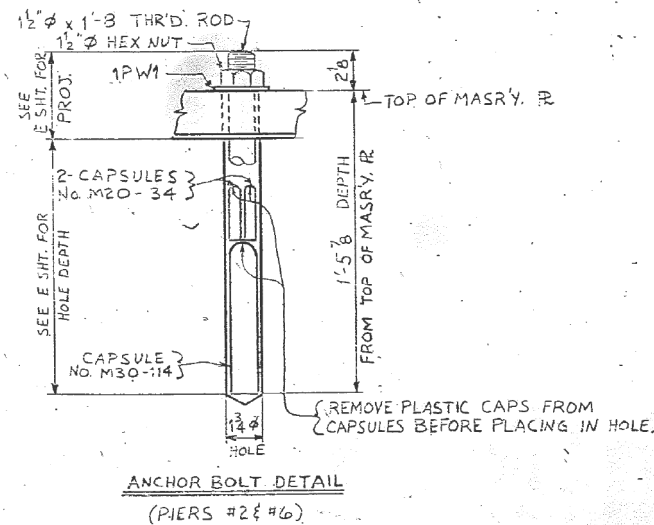


DETAIL B

LOCATION	BL	CLG	DEP	PRO
W. ABUT. EB & WB	1'-6"	1'-0 1/4"	1'-2"	4"
PIER 4 UNIT 1 EB & WB	1'-6"	1'-0 1/4"	1'-2"	4"
PIER 4 UNIT 2 WB	1'-6"	1'-0 1/4"	1'-1 7/8"	4 3/8"
PIER 4 UNIT 2 EB	1'-6 1/2"	11 1/4"	1'-2 1/8"	4 3/8"
E. ABUT. WB	1'-6"	11 1/4"	1'-1 7/8"	4 3/8"
E. ABUT. EB	1'-6 1/2"	11 1/4"	1'-1 7/8"	4 3/8"



DETAIL C



ANCHOR BOLT DETAIL (PIERS #2 & #6)

- ERECTION NOTES:
- EXP. BRG'S AT ABUTS AND PIERS 1, 3, 4, 5, 7, & 8 ARE BY OTHERS.
  - USE 2 HARDENED WASHERS (UNDER HEAD AND NUT) FOR EACH BOLT AT END DIAPHRAGMS, END CROSSFRAMES, PIER CROSSFRAMES, & CROSSFRAME CONNECTIONS.
  - USE 1 HARDENED WASHER (UNDER NUT) FOR EACH BOLT AT FIELD SPLICES.

- FIELD PAINTING NOTES:
- ZINC COATED BOLTS, NUTS, & WASHERS SHALL BE SOLVENT CLEANED AND PAINTED WITH VINYL BUTYRAL WASH PRIMER PRIOR TO FIELD PAINTING.

- FIELD NOTES FOR ANCHOR BOLTS:
- HOLES IN MASONRY SHALL BE DRILLED THRU MASONRY PLATE OR ANGLES TO DIA. AND DEPTH SHOWN. (AFTER GIRDERS HAVE BEEN ERECTED)
  - FOR INSTALLATION INSTRUCTIONS SEE BROCHURE FROM "MOLLY FASTENERS".
  - FOR LIST OF MAT'L REQUIRED SEE SHT. # 1.

SHOP DRAWING REVIEW

No Exceptions taken

Exceptions taken as noted

Resubmit with corrections

Contractor is not relieved of responsibility for compliance with plans & specifications. CRAWFORD, MURPHY & TILLY, INC. Date 4/28/88

APPROVED  
For Main Dimensions and Materials Only  
APR 29 1988  
*James J. Johnson*  
Engineer of Bridges & Structures

PRINTED  
APR 20 1988  
HARTWIG MFG. CORP.

WORK THIS SHT. WITH SHT. E1

TENSOR 130-02

DRAWN RT	1/28/88		
CHECKED	GK 2/16/88		
MATERIAL	A572 GRADE 50 (U.N.)		
OPEN HOS	15/16 DIA. (U.N.)		
SHOP PAINT	SEE GENERAL NOTES		
APPROVAL			
NO	MADE	DATE	REMARKS

HARTWIG MFG. CORP. WAUSAU, WI 54401		SHEET NO. E2
CUSTOMER	SHAPPERT ENGINEERING	CONTRACT NO. 4945
LOCATION	PIKE COUNTY, ILLINOIS	
STRUCTURE SEC.	F. A. ROUTE 402 75-3VHB-1	
PROJECT	STA. 974+71.36 WESTBOUND LANES	
DETAILS OF	FRAM. PLAN UNIT 1 W.B.	
SPECS BY	STATE OF ILLINOIS DEPT. OF TRANS.	

FOR INFORMATION ONLY

DESIGNED - JSB  
CHECKED - SMR  
DRAWN - STEFFEN  
CHECKED - JSB SMR

EXAMINED  
PASSED  
*Timothy A. Daulton*  
ENGINEER OF STRUCTURAL SERVICES  
*Carl Ringer*  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 5, 2018  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

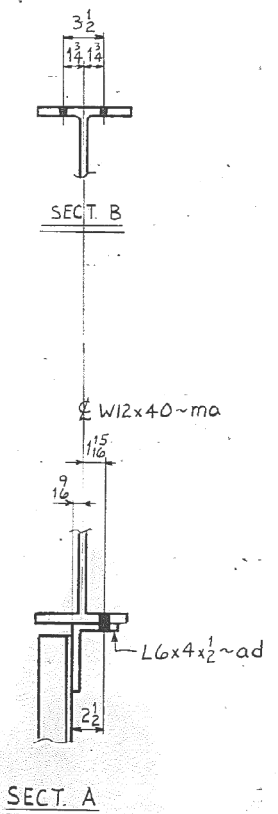
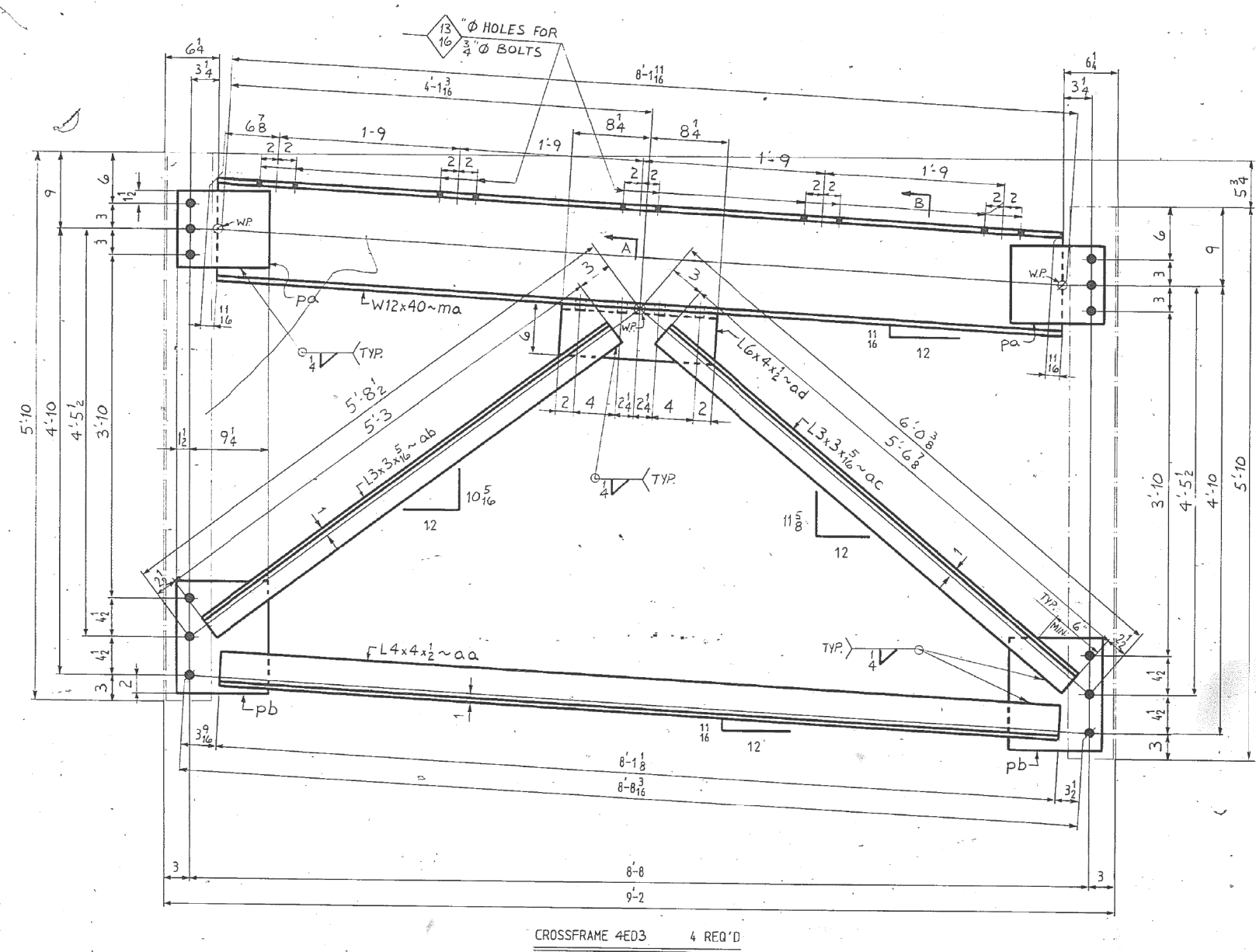
SHOP PLANS - FOR INFORMATION ONLY  
SN 075-0098 (E.B.) & -0099 (W.B.)

SHEET 17 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	42
CONTRACT NO. 72K66				

ILLINOIS FED. AID PROJECT

LINE NO.	NO OF PCE	SHAPE	SIZE	LENGTH		ASSEMBLING MARK	REMARKS	P.D.
				FT	IN			
1								
2	4	~	END CROSSFRAMES	~		4E03		
3								
4	4	W	12x40	8	2 3/8	ma		8/2
5	4	L	4x4x 1/2	8	1 1/2	aa		8/3
6	4	L	3x3x 5/16	5	3	ab		8/4
7	4	L	3x3x 5/16	5	6 7/8	ac		8/5
8	4	L	6x4x 1/2	1	4 1/2	ad		8/8
9	8	R	9x 3/8	0	10 1/4	pa		8/6
10	8	R	13x 3/8	0	10 1/4	pb		8/7
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

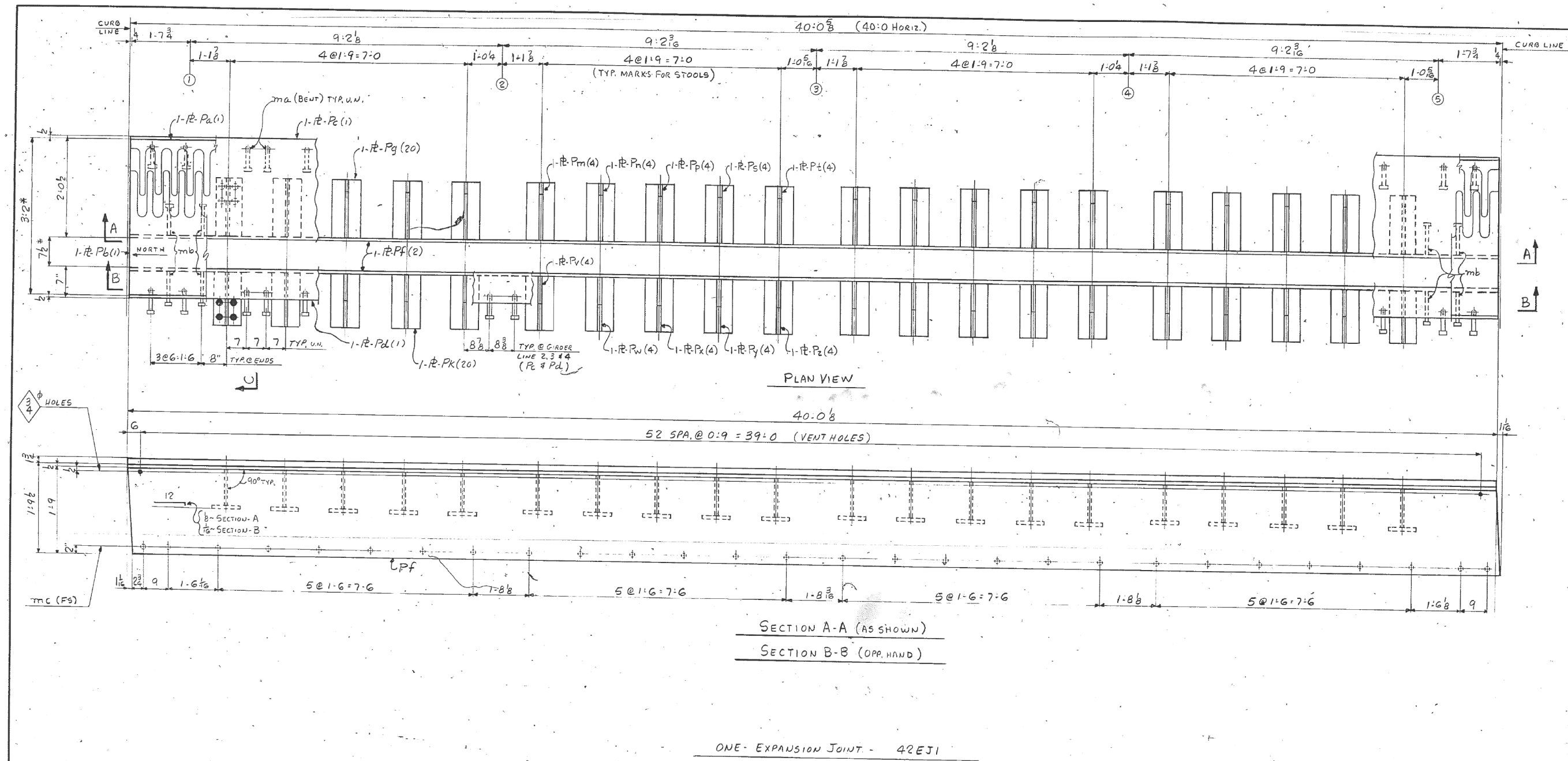


SHOP DRAWING REVIEW  
 No Exceptions taken  
 Exceptions taken as noted  
 Resubmit with corrections  
 Contractor is not relieved of responsibility for compliance with plans & specifications.  
 CRAWFORD, MURPHY & TILLY, INC.  
 RK Date 4/24/88

NOTES  
 FOR GENERAL NOTES SEE SHEET NO. APR 09 1988  
 APPROVED  
 For Main Dimensions and Materials Only  
 APR 09 1988  
 PRINTED  
 APR 20 1988  
 HARTWIG MFG. CORP.

FOR INFORMATION ONLY

TENSOR 1130-13		HARTWIG MFG. CORP. WAUSAU, WI 54401	
DRAWN RT 1/16/88	CHECKED GK 2/6/88	CUSTOMER SHAPPERT ENGINEERING	SHEET NO. 4
MATERIAL ASTM A36	OPEN HOS 15/16 DIA. (U.N.)	LOCATION PIKE COUNTY, ILLINOIS	CONTRACT NO. 4945
SHOP PAINT: SEE GENERAL NOTES	APPROVAL	F. A. ROUTE 408	
REVISIONS		STRUCTURE SEC 75-3VIB-1	DETAILS OF END CROSSFRAMES @ PIER 4
NO	MADE DATE	REMARKS	
		PROJECT WESTBOUND LANES	
		SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	



FOR  
INFORMATION  
ONLY

**SHOP DRAWING REVIEW**  
 No Exceptions taken .....  
 Exceptions taken as noted .....  
 Resubmit with corrections .....  
 Contractor is not relieved of responsibility for compliance with plans & specifications.  
 CRAWFORD, MURPHY & TILLY, INC.  
 By *[Signature]* Date 7/5/88

PRINTED  
 JUN 29 1988  
 APPROVED  
 For Main Dimensions and Materials Only  
 JUL 6 1988  
*[Signature]*  
 Engineer of Bridges & Structures

WORK THIS SHT. WITH SHT. 43 & 44  
 \* - DIMEN. @ 50°F

TENSOR 1130-14 DRAWN ELC 2-29-88 CHECKED GK 3/23/88 MATERIAL A36 (U.N.) OPEN HOS 13/16 DIA. (U.N.) SHOP PAINT: SEE GENERAL NOTES APPROVAL		<b>HARTWIG MFG. CORP.</b> WAUSAU, WI 54401	
REVISIONS NO MADE DATE REMARKS		CUSTOMER SHAPPERT ENGINEERING LOCATION PIKE COUNTY, ILLINOIS F.A. ROUTE 408 STRUCTURE SEC. 75-3VHB-1 STA. 974+71.36 PROJECT WESTBOUND LANES UNIT 1 DETAILS OF EXP. JOINT 42EJ1 SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	SHEET NO. 42 CONTRACT NO. 4945

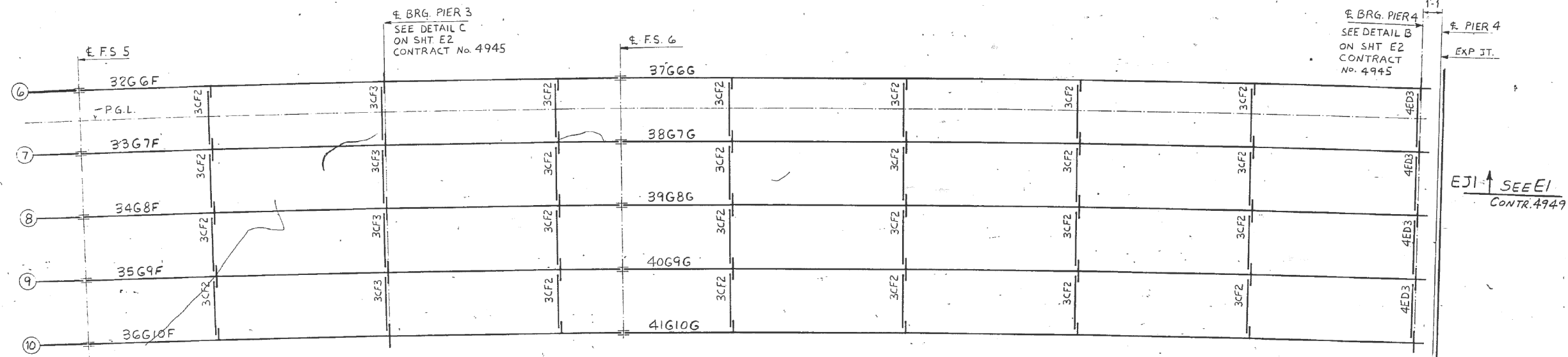
DESIGNED - JSB	EXAMINED - <i>[Signature]</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>[Signature]</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHOP PLANS - FOR INFORMATION ONLY  
SN 075-0098 (E.B.) & -0099 (W.B.)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	44
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				





FRAMING PLAN

FOR INFORMATION ONLY

SHOP DRAWING REVIEW

No Exceptions taken    
 Exceptions taken as noted    
 Resubmit with corrections    
 Contractor is not relieved of responsibility for compliance with plans & specifications.   
 CRAWFORD, MURPHY & TILLY, INC.   
 By *RK* Date *4/28/88*

APPROVED  
 For Main Dimensions and Materials Only  
 APR 29 1988  
*James J. Johnson*  
 Engineer of Bridges & Structures

PRINTED  
 APR 22, 1988  
 HARTWIG MFG. CORP.

WORK THIS SHT. WITH SHT. E1

TENSOR 1130-02		HARTWIG MFG. CORP. WAUSAU, WI 54401	
DRAWN RT 1/29/88	CHECKED GK 2/25/88	CUSTOMER SHAPPERT ENGINEERING	SHEET NO. E2
MATERIAL A572 GRADE 50 (U.N.)	OPEN HOLES 15/16 DIA. (U.N.)	LOCATION PIKE COUNTY, ILLINOIS	CONTRACT NO. 4947
SHOP PAINT: SEE GENERAL NOTES	APPROVAL	STRUCTURE SEC 75-3VHB-1	DETAILS OF FRAM. PLAN UNIT 1 E.B.
NO	MADE DATE	REVISIONS	REMARKS
SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.			

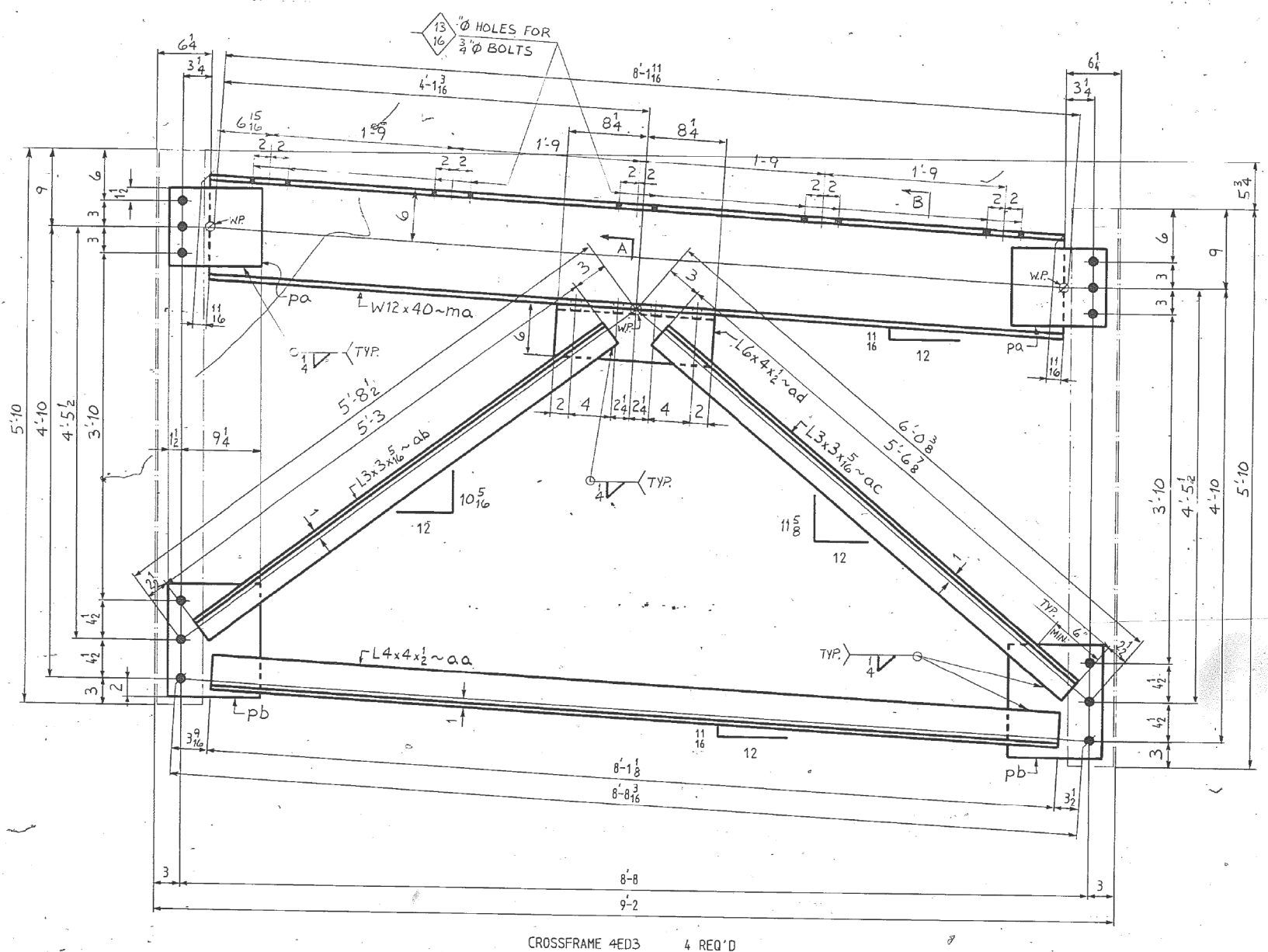
DESIGNED - JSB	EXAMINED - <i>Timothy A. Dredger</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>Carl Kruger</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHOP PLANS - FOR INFORMATION ONLY  
 SN 075-0098 (E.B.) & -0099 (W.B.)

SHEET 21 OF 31 SHEETS

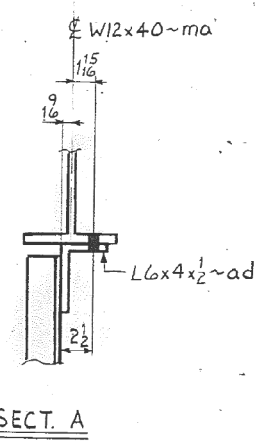
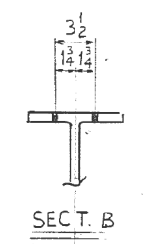
F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 46
CONTRACT NO. 72K66				ILLINOIS FED. AID PROJECT



CROSSFRAME 4ED3 4 REQ'D

FOR INFORMATION ONLY

LINE NO.	MATERIAL			LENGTH		ASSEMBLING MARK	REMARKS	P.D.
	NO. OF PLCS	SHAPE	SIZE	FT	IN			
1								
2	4	~	END CROSSFRAMES	~		4ED3		
3								
4	4	W	12x40	8	2 3/8	ma		B 2
5	4	L	4x4x1/2	8	1 1/2	aa		B 3
6	4	L	3x3x1/2	5	3	ab		B 4
7	4	L	3x3x1/2	5	6 7/8	ac		B 5
8	4	L	6x4x1/2	1	4 1/2	ad		B 6
9	8	R	9x3/8	0	10 3/4	pa		B 6
10	8	R	13x3/8	0	10 3/4	pb		B 7
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								



SHOP DRAWING REVIEW  
 No Exceptions taken  
 Exceptions taken as noted  
 Resubmit with corrections  
 Contractor is not relieved of responsibility for compliance with plans & specifications.  
 CRAWFORD, KROVETZ & TILLY, INC.  
 By *RR* Date 4/18/88

NOTES  
 FOR GENERAL NOTES SEE SHEET NO. 4  
 APPROVED  
 APR 20 1988  
 PRINTED  
 APR 22 1988  
 HARTWIG MFG. CORP.

TENSOR 1130-13 DRAWN RT 1/16/88 CHECKED GK 3/25/88 MATERIAL ASTM A36 OPEN HOS 15/16 DIA. (U.N.) SHOP PAINT: SEE GENERAL NOTES APPROVAL		HARTWIG MFG. CORP. WAUSAU, WI 54401	
REVISIONS NO MADE DATE REMARKS		CUSTOMER SHAPPERT ENGINEERING	SHEET NO. 4
		LOCATION PIKE COUNTY, ILLINOIS F. A. ROUTE 408 STRUCTURE SEC. 75-3VHB-1	CONTRACT NO. 4947
		PROJECT EASTBOUND LANES UNIT 1	
		DETAILS OF END CROSSFRAMES @ PIER 4	
		SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	

DESIGNED - JSB	EXAMINED - <i>Timothy A. Dredger</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHOP PLANS - FOR INFORMATION ONLY  
 SN 075-0098 (E.B.) & -0099 (W.B.)

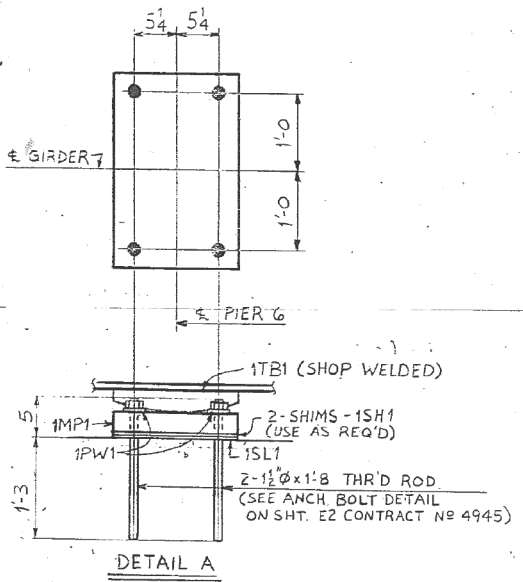
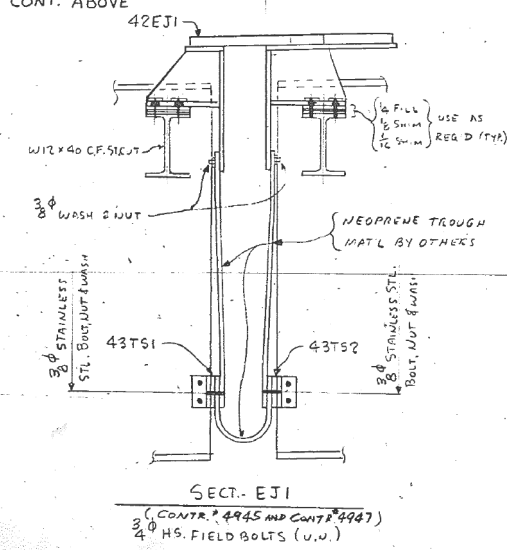
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	47
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	



FRAMING PLAN

MATCH LINE CONT. ABOVE  
 7' @ 50°F. CONT. 4945  
 7' @ 50°F. CONT. 4947

MATCH LINE CONT. ON E2



NOTE:  
 SEE SHT. E2 CONTRACT NO 4945  
 FOR ERECTION NOTES.

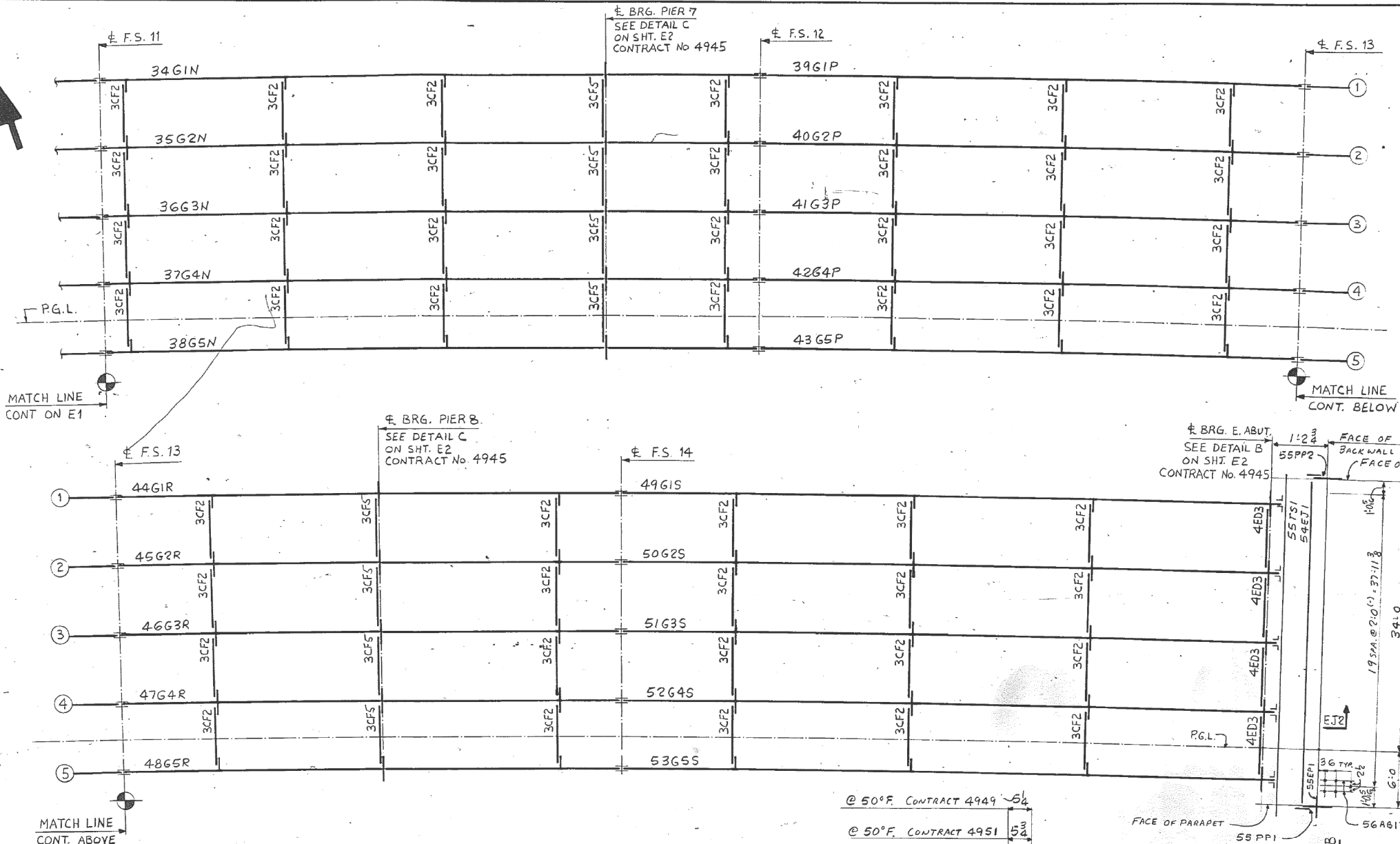
REFER. CONT. NO'S. FOR STRUCTURE  
 CONTRACT 4945 = UNIT #1 W.B.  
 CONTRACT 4947 = UNIT #1 E.B.  
 CONTRACT 4949 = UNIT #2 W.B.  
 CONTRACT 4951 = UNIT #2 E.B.

**FOR INFORMATION ONLY**

APPROVED  
 For Main Dimensions and Materials Only  
 JAN 18 1989  
 HARTWIG MFG. CORP.

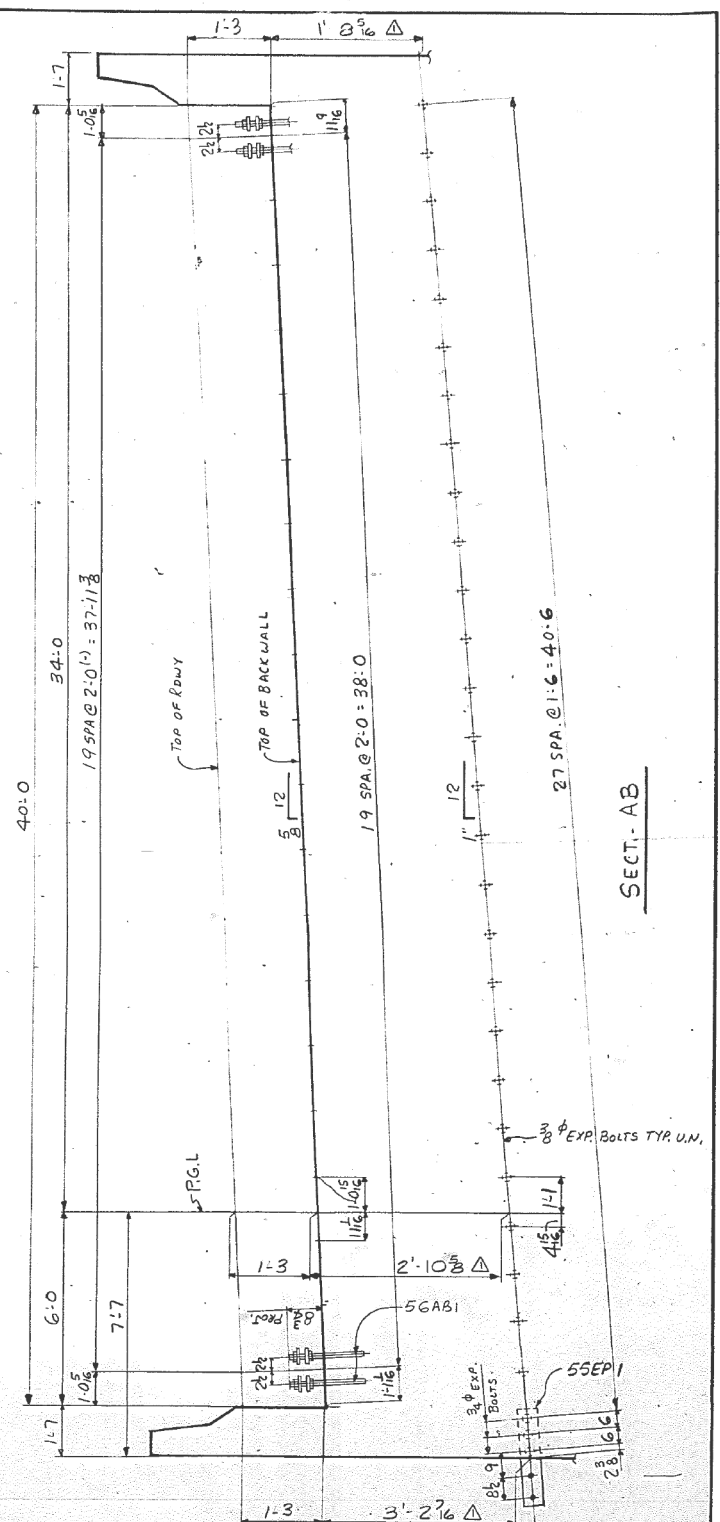
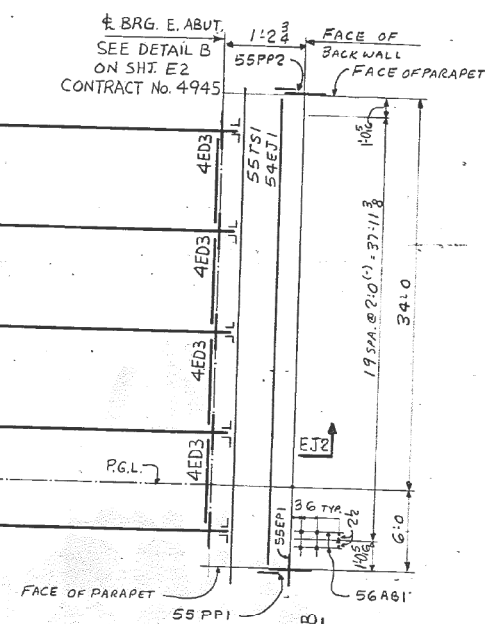
TENSOR 1130-02 DRAWN RT 1/29/88 CHECKED GK 3/14/88		HARTWIG MFG. CORP. WAUSAU, WI 54401	
MATERIAL	OPEN HOS	CUSTOMER SHAPPERT ENGINEERING	SHEET NO.
SHOP PAINT: SEE GENERAL NOTES	APPROVAL	LOCATION PIKE COUNTY, ILLINOIS F. A. ROUTE 408	E1
REVISIONS		STRUCTURE SEC. 75-3VHB-1	CONTRACT NO.
NO. 1	MADE DATE 1-11-89	PROJECT WESTBOUND LANES	4949
REMARKS MOVED STEEL TO 202H 1/5' ENT. ADDED 2 EDIA & 2 EDIB		DETAILS OF FRAM. PLAN UNIT 2 W.B.	
		SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	





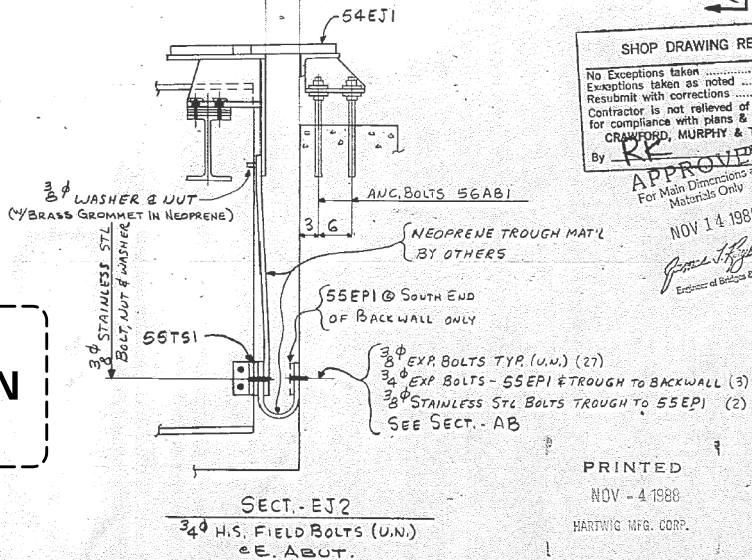
FRAMING PLAN

@ 50°F. CONTRACT 4949 - 5/4  
 @ 50°F. CONTRACT 4951 - 5/4



SECTION AB

FOR  
INFORMATION  
ONLY



SHOP DRAWING REVIEW  
 No Exceptions taken  
 Exceptions taken as noted  
 Resubmit with corrections  
 Contractor is not relieved of responsibility  
 for compliance with plans & specifications.  
 CRAWFORD, MURPHY & TILLY, INC.  
 By *[Signature]*  
 APPROVED  
 For Main Dimensions and Materials Only  
 NOV 14 1988  
*[Signature]*  
 Engineer of Bridges & Structures

PRINTED  
 NOV - 4 1988  
 HARTWIG MFG. CORP.

TENSOR 1130-02		DRAWN RT 1/29/88		HARTWIG MFG. CORP. WAUSAU, WI 54401	
CHECKED GK 3/14/88		MATERIAL			
OPEN HOS		SHOP PAINT : SEE GENERAL NOTES		CUSTOMER SHAPPERT ENGINEERING	
APPROVAL		REVISIONS		LOCATION PIKE COUNTY, ILLINOIS	
NO MADE DATE		REMARKS		F. A. ROUTE 408	
Δ G.C. 11-4-88		REVISED DIMS FOR LOCATION OF 3/8" EXP. BOLTS		STRUCTURE SEC. 75-3VH-B-1	
				STA. 974+71.36	
				PROJECT WESTBOUND LANES	
				DETAILS OF FRAM. PLAN UNIT 2 W.B.	
				SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	
				SHEET NO. E2	
				CONTRACT NO. 4949	

DESIGNED - JSB  
 CHECKED - SMR  
 DRAWN - STEFFEN  
 CHECKED - JSB SMR

EXAMINED  
 PASSED  
*Timothy A. Daulton*  
 ENGINEER OF STRUCTURAL SERVICES  
*Carl R. Roper*  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - OCTOBER 5, 2018  
 REVISED -  
 REVISED -

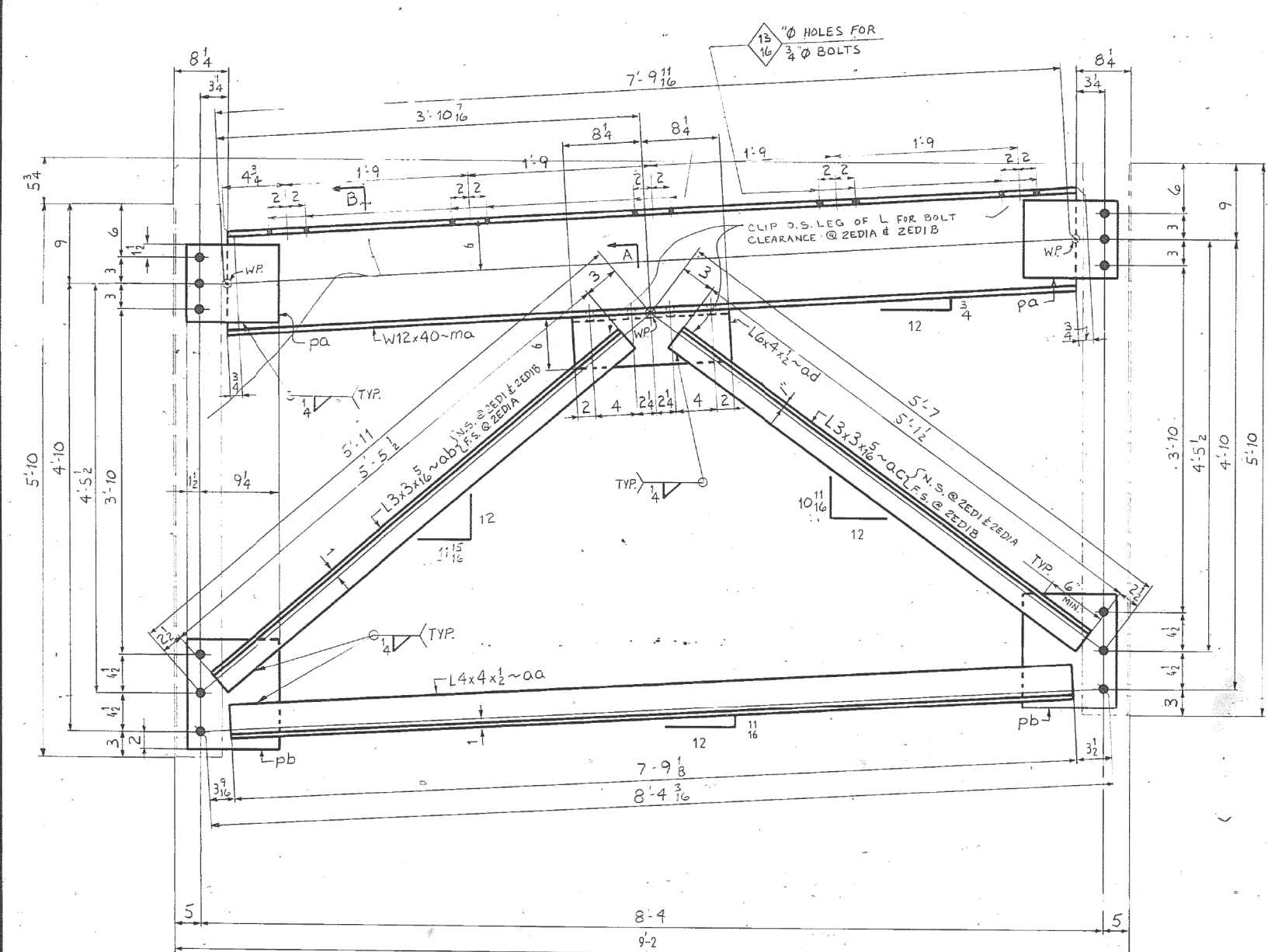
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHOP PLANS - FOR INFORMATION ONLY  
 SN 075-0098 (E.B.) & -0099 (W.B.)

SHEET 24 OF 31 SHEETS

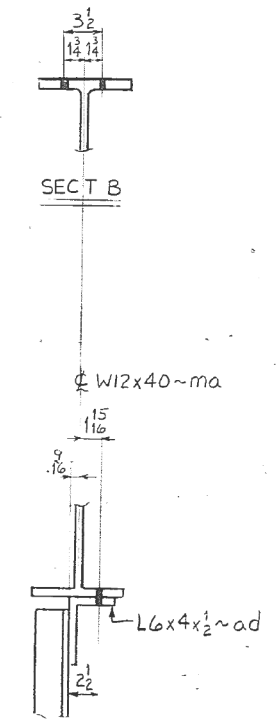
F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 49
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				

LINE	NO OF PCS	SHAPE	MATERIAL SIZE	LENGTH		ASSY BLING MARK	REMARKS	P.D. REF
				FT	IN			
1	2	~	END CROSS	FRAME	~	ZED1		
2	1	~	END CROSS	FRAME	~	ZED1A		
3	1	~	END CROSS	FRAME	~	ZED1B		
4	4	W	12x40		7 10/16	ma		15/2
5	4	L	4x4x1/2		7 9/8	aa		15/3
6	4	L	3x3x1/8		5 5/2	ab		15/5
7	4	L	3x3x1/8		5 1/2	ac		15/4
8	4	L	6x4x1/2		1 4/2	ad		15/8
9	8	R	9x3/8		0 10/4	pa		15/6
10	8	R	13x3/8		0 10/4	pb		15/7
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								



CROSSFRAME ZED1	2 REQ'D
ZED1A	1
ZED1B	1

FOR INFORMATION ONLY

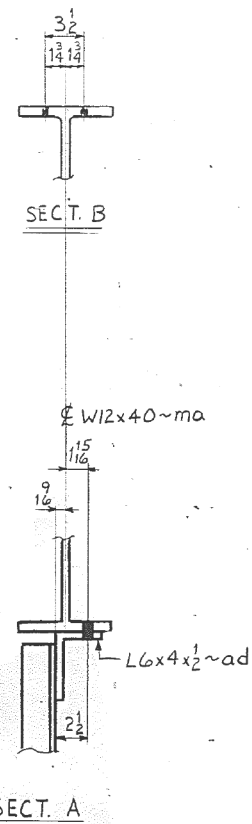
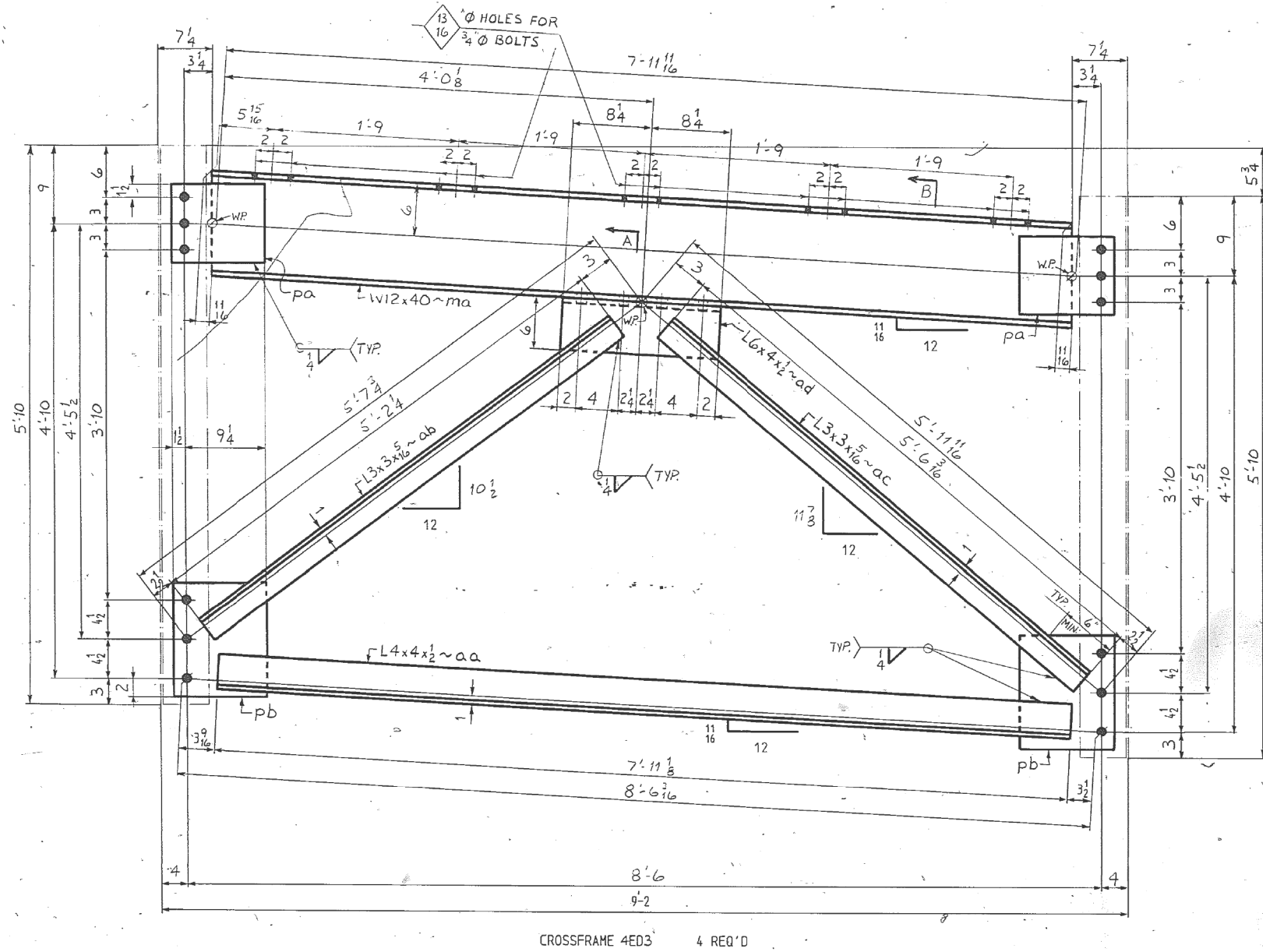


**APPROVED**  
For Main Dimensions and Materials Only  
JAN 18 1999  
*[Signature]*  
Engineer of Bridges & Structures

NOTES  
FOR GENERAL NOTES SEE SHEET 25 OF 31

PRINTED  
JAN 18 1999  
HARTWIG MFG. CORP.

TENSOR 1150-13 DRAWN RT 1/16/88 CHECKED GK 2/8/88 MATERIAL ASTM A36 OPEN HOS. 15/16 DIA. (U.N.) SHOP PAINT: SEE GENERAL NOTES APPROVAL		<b>HARTWIG MFG. CORP.</b> WAUSAU, WI 54401	
NO. MADE DATE REMARKS 1 KA1 11-89 CHANGED QTY ZED1 FROM 4 TO 2 PC. & ADDED ZED1A ZED1B		CUSTOMER SHAPPERT ENGINEERING LOCATION PIKE COUNTY, ILLINOIS F.A. ROUTE 408 STRUCTURE SEC. 75-3VH8-1 STA. 974+71.36 PROJECT WESTBOUND LANES UNIT 2 DETAILS OF END CROSSFRAMES @ PIER 4 SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	SHEET NO. 2  CONTRACT NO. 4949



LINE	NO OF PCS	SHAPE	MATERIAL		ASSEMBLING MARK	REMARKS	P D
			SIZE	LENGTH			
			FT	IN			9/11
1							
2	4	~	END CROSSFRAMES ~ 4ED3				
3							
4	4	W	12x40	8 0 3/8	ma		15 2
5	4	L	4x4x1/2	7 11 3/8	aa		15 3
6	4	L	3x3x5/16	5 2 1/4	ab		15 4
7	4	L	3x3x5/16	5 6 1/6	ac		15 5
8	4	L	6x4x1/2	1 4 1/2	ad		15 8
9	8	R	9x3/8	0 10 3/4	pa		15 6
10	8	R	13x3/8	0 10 3/4	pb		15 7
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

SHOP DRAWING REVIEW  
 No Exceptions taken  
 Exceptions taken as noted  
 Resubmit with corrections  
 Contractor is not relieved of responsibility for compliance with plans & specifications.  
 CHAWFORD, MURPHY & TILLY, INC.  
 By: *RT* Date: 6-7-88

NOTES  
 FOR GENERAL NOTES SEE SHEET NO. GN1  
 APPROVED  
 JUN 2 1988  
 HARTWIG MFG. CORP.  
 PRINTED  
 MAY 31 1988  
 HARTWIG MFG. CORP.

FOR INFORMATION ONLY

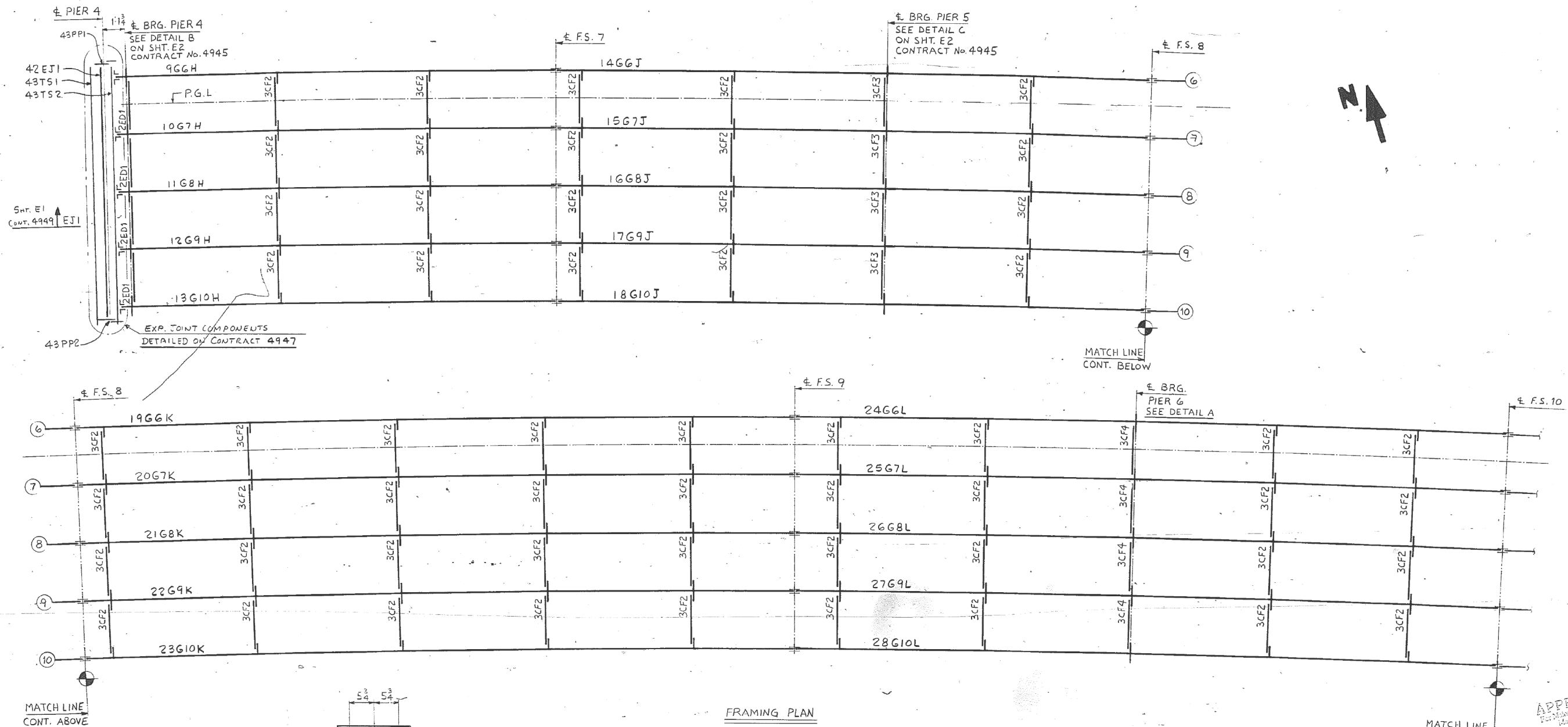
TENSOR 1130-13 DRAWN RT 1/16/88 CHECKED GK 3/8/88 MATERIAL ASTM A36 OPEN HOLES 15/16 DIA. (U.N.) SHOP PAINT: SEE GENERAL NOTES		HARTWIG MFG. CORP. WAUSAU, WI 54401	
APPROVAL		CUSTOMER SHAPPERT ENGINEERING	SHEET NO. 4
REVISIONS NO MADE DATE REMARKS		LOCATION PIKE COUNTY, ILLINOIS F.A. ROUTE 408 STRUCTURE SEC. 75-3VNB-1 STA. 974+71.36 PROJECT WESTBOUND LANES UNIT 2	CONTRACT NO. 4949
		DETAILS OF END CROSSFRAMES @ E.ABUT	
		SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	

DESIGNED - JSB	EXAMINED - <i>Timothy A. Dredger</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>Carl Kreyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHOP PLANS - FOR INFORMATION ONLY  
SN 075-0098 (E.B.) & -0099 (W.B.)

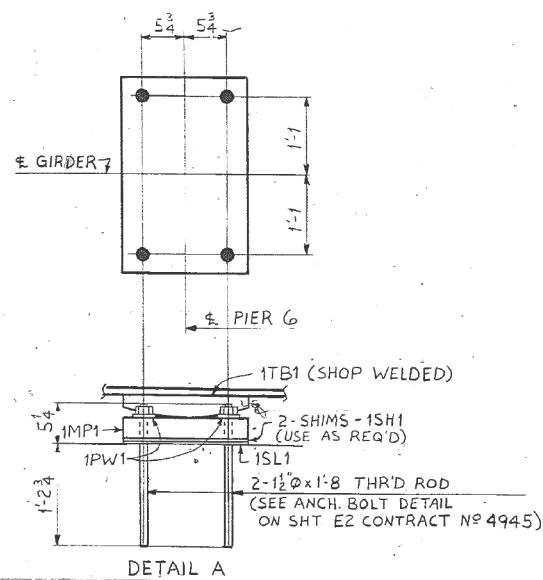
F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 51
SHEET 26 OF 31 SHEETS				CONTRACT NO. 72K66
ILLINOIS FED. AID PROJECT				



FRAMING PLAN

NOTE:  
SEE SHT. E2 CONTRACT NO 4945  
FOR ERECTION NOTES.

FOR  
INFORMATION  
ONLY



SHOP DRAWING REVIEW  
No Exceptions taken  
Exceptions taken as noted  
submit with corrections  
Contractor is not relieved of responsibility  
compliance with plans & specifications  
DUNFORD, MURPHY & TILLY, INC.  
Date: 6-7-88  
RK

APPROVED  
JUN 8 1988  
PRINTED  
MAY 26 1988  
HARTWIG MFG. CORP.

TENSOR 1130-02 DRAWN RT 1/30/88 CHECKED GK 3/16/88		<b>HARTWIG MFG. CORP.</b> WAUSAU, WI 54401	
MATERIAL	OPEN HOS	CUSTOMER SHAPPERT ENGINEERING	SHEET NO.
SHOP PAINT	APPROVAL	LOCATION PIKE COUNTY, ILLINOIS	E1
REVISIONS		STRUCTURE SEC. 75-3VHB-1	CONTRACT NO.
NO	MADE DATE	REMARKS	4951
		PROJECT EASTBOUND LANES	
		DETAILS OF FRAM. PLAN UNIT 2 E.B.	
		SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	

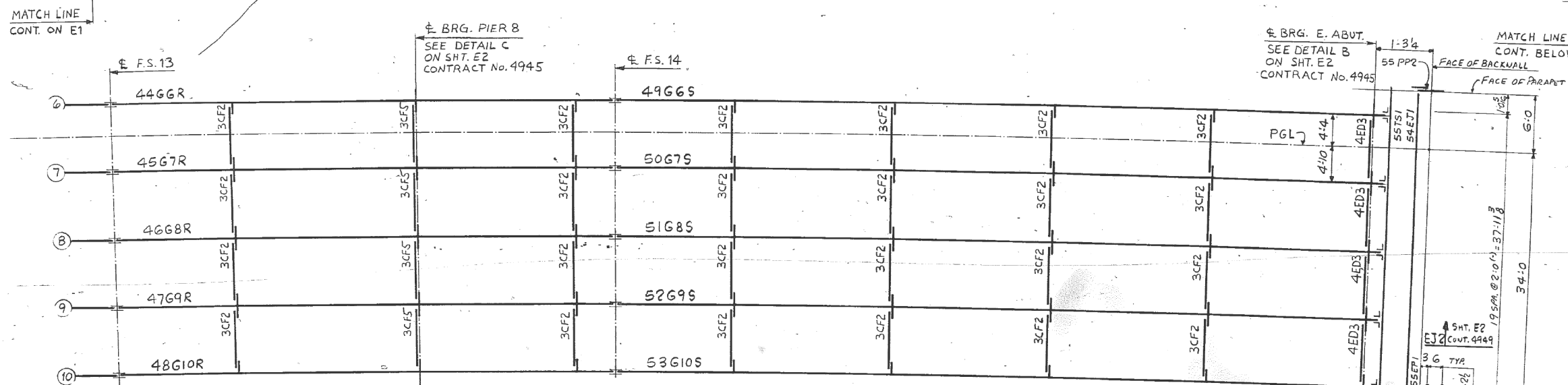
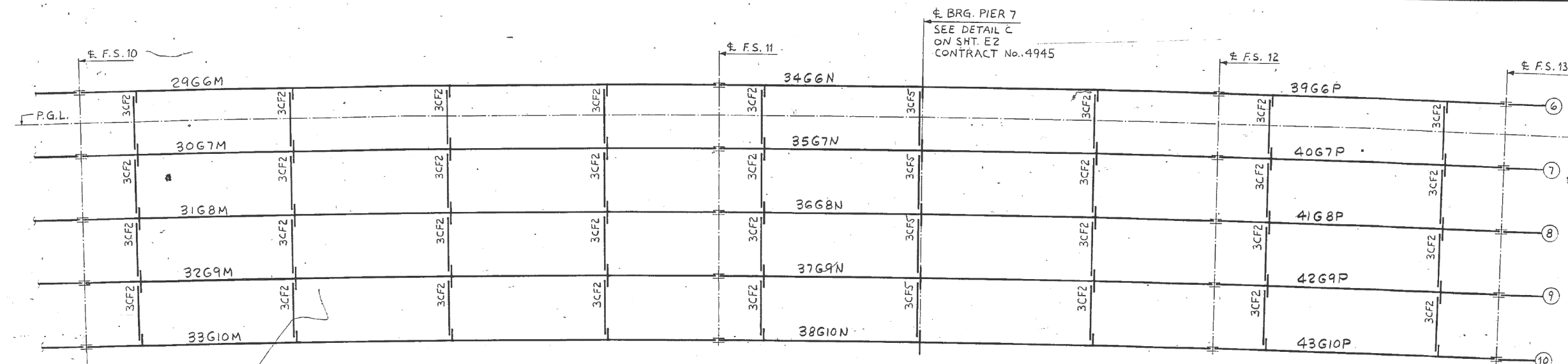
DESIGNED - JSB	EXAMINED - <i>Timothy A. Dredt</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>Carl Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHOP PLANS - FOR INFORMATION ONLY  
SN 075-0098 (E.B.) & -0099 (W.B.)

SHEET 27 OF 31 SHEETS

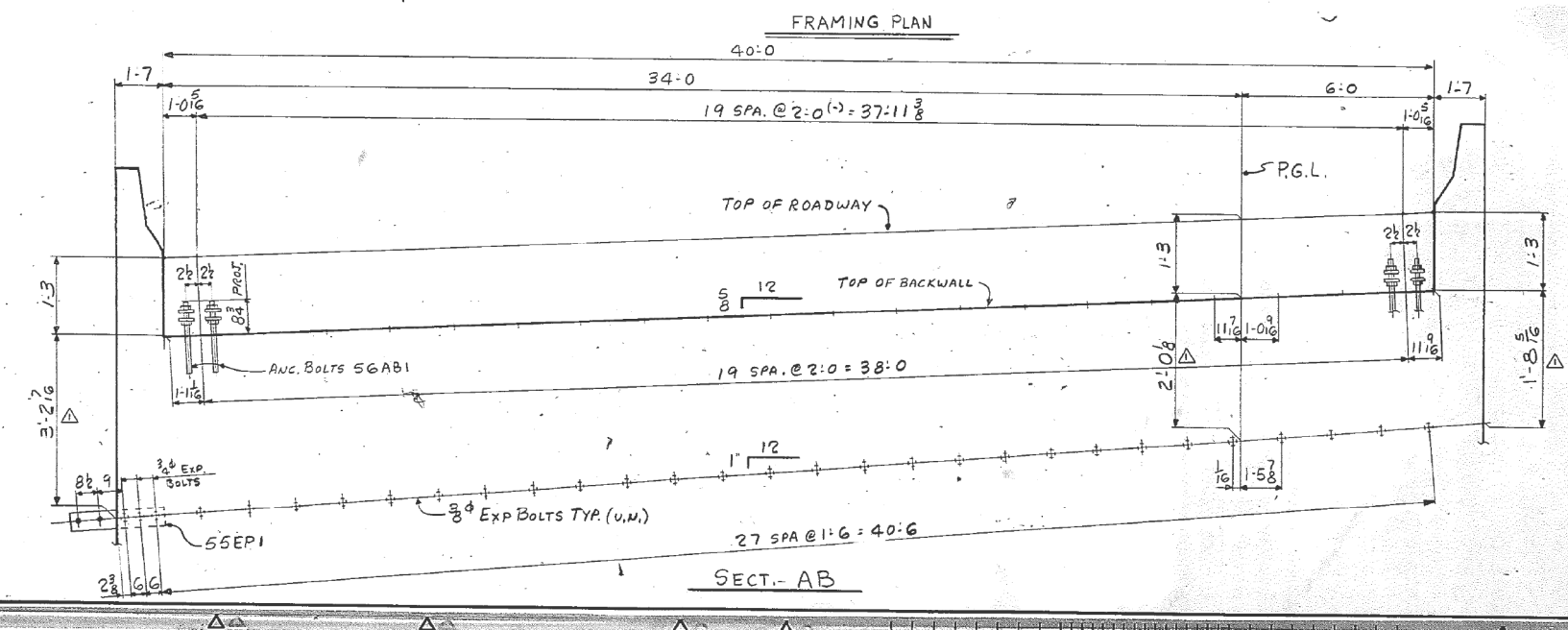
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(75-3)BJR	PIKE	55	52
CONTRACT NO. 72K66				
ILLINOIS FED. AID PROJECT				



**FOR INFORMATION ONLY**

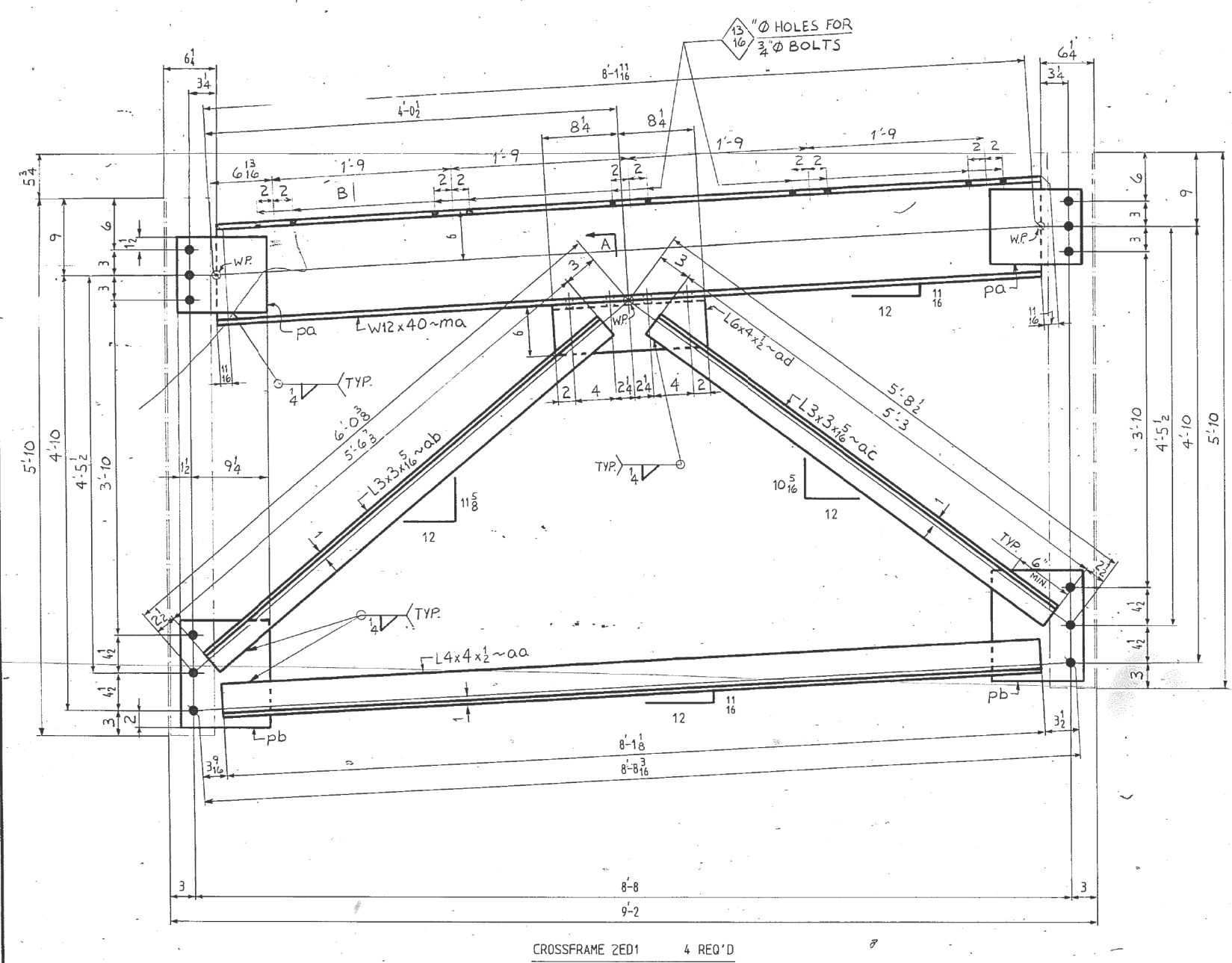
**APPROVED**  
For Main Dimensions and Materials Only  
NOV 14 1988  
Contractor is not released of responsibility for compliance with plans & specifications.  
CRAMFORD, MURPHY & TILLY, INC.  
Date 11-9-88  
HARTWIG MFG. CORP.

**SHOP DRAWING REVIEW**  
No Exceptions taken  
Exceptions taken as noted  
Resubmit with corrections  
Contractor is not released of responsibility for compliance with plans & specifications.  
By *RE* Date 11-9-88

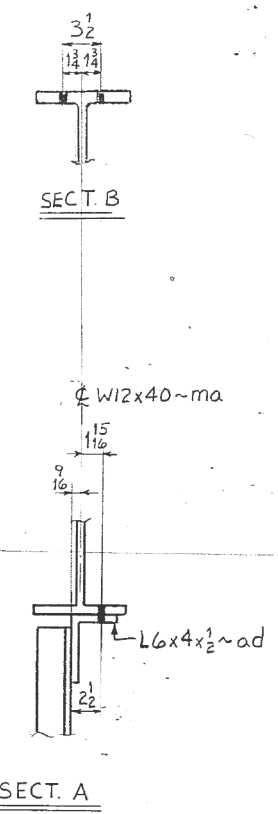


TENSOR 1130-02 DRAWN RT 1/29/88		<b>HARTWIG MFG. CORP.</b> WAUSAU, WI 54401	
CHECKED GK 3/16/88	MATERIAL	CUSTOMER SHAPPERT-ENGINEERING	SHEET NO. E2
OPEN NOS	SHOP PAINT	LOCATION PIKE COUNTY, ILLINOIS F. A. ROUTE 408 STRUCTURE SEC. 75-3VHB-1	CONTRACT NO. 4951
APPROVAL	REVISIONS	STA. 974+71.36 PROJECT EASTBOUND LANES	
NO MADE DATE	REMARKS	DETAILS OF FRAM. PLAN UNIT 2 E.B.	
Δ GLC 11-4-88	REVISED DIM'S FOR LOCATION OF 3/8" EXP BOLTS	SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	

LINE NO.	NO. OF PCS.	SHAPE	SIZE	LENGTH		ASSEMBLING MARK	REMARKS	P.D. NO.
				FT	IN			
1								
2	4	~	END CROSSFRAMES ~			2ED1		
3								
4	4	W	12x40	8	2 <sup>3</sup> / <sub>8</sub>	ma		14/2
5	4	L	4x4x <sup>1</sup> / <sub>2</sub>	8	1 <sup>1</sup> / <sub>8</sub>	aa		14/3
6	4	L	3x3x <sup>5</sup> / <sub>16</sub>	5	6 <sup>7</sup> / <sub>8</sub>	ab		14/5
7	4	L	3x3x <sup>5</sup> / <sub>16</sub>	5	3	ac		14/4
8	4	L	6x4x <sup>1</sup> / <sub>2</sub>	1	4 <sup>1</sup> / <sub>2</sub>	ad		14/8
9	8	R	9x <sup>3</sup> / <sub>8</sub>	0	10 <sup>3</sup> / <sub>4</sub>	pa		14/6
10	8	R	13x <sup>3</sup> / <sub>8</sub>	0	10 <sup>3</sup> / <sub>4</sub>	pb		14/7
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								



CROSSFRAME 2ED1 4 REQ'D



SHOP DRAWING REVIEW  
 No Exceptions taken  
 Excutions taken as noted  
 Resubmit with corrections  
 Contractor is not relieved of responsibility for compliance with plans & specifications.  
 CRAWFORD, MURPHY & TILLY, INC.  
 By *[Signature]* Date 7-88

NOTES  
 FOR GENERAL NOTES SEE SHEET NO. GN1

PRINTED  
 MAY 26 1998  
 HARTWIG MFG. CORP.

FOR INFORMATION ONLY

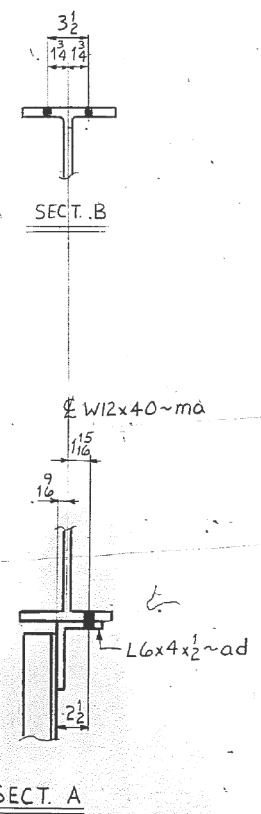
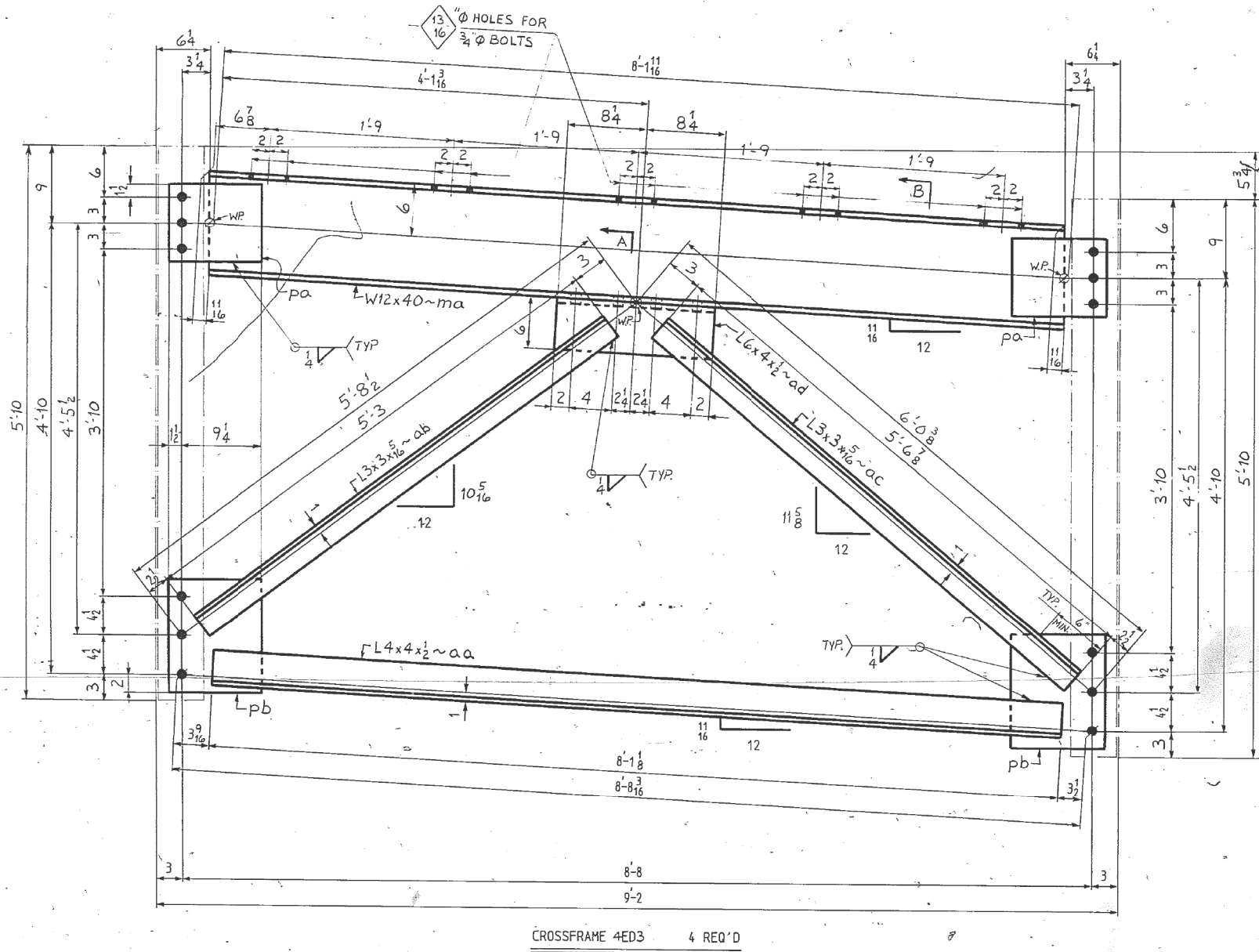
TENSOR 1130-13		HARTWIG MFG. CORP. WAUSAU, WI 54401	
DRAWN RT 1/16/88	CHECKED GK 3/16/88	CUSTOMER SHAPPERT ENGINEERING	SHEET NO. 2
MATERIAL ASTM A36	OPEN HOS. 15/16 DIA. (U.N.)	LOCATION PIKE COUNTY, ILLINOIS	CONTRACT NO. 4951
SHOP PAINT: SEE GENERAL NOTES	APPROVAL	F. A. ROUTE 408 STRUCTURE SEC. 75-3VHR-1	
REVISIONS	NO. MADE DATE REMARKS	PROJECT EASTBOUND LANES UNIT 2	
		DETAILS OF END CROSSFRAMES @ PIER 4	
		SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>Carl Kruger</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHOP PLANS - FOR INFORMATION ONLY  
 SN 075-0098 (E.B.) & -0099 (W.B.)

F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 54
CONTRACT NO. 72K66				ILLINOIS FED. AID PROJECT



LINE	NO OF PCS	SHAPE	SIZE	LENGTH		ASSEMBLY MARK	REMARKS	P.B.
				FT	IN			
1								
2	4	~	END CROSSFRAMES	~		4ED3		
3								
4	4	W	12x40	8	2 3/8	ma		14 2
5	4	L	4x4x1/2	8	1 1/2	aa		14 3
6	4	L	3x3x5/16	5	3	ab		14 4
7	4	L	3x3x1/8	5	6 7/8	ac		14 5
8	4	L	6x4x1/2	1	4 1/2	ad		14 6
9	8	R	9x3/8	0	10 1/2	pa		14 6
10	8	R	13x3/8	0	10 1/2	pb		14 7
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SHOP DRAWING REVIEW  
 No Exceptions taken   
 Exceptions taken as noted   
 Resubmit with corrections   
 Contractor is not relieved of responsibility for compliance with plans & specifications.  
 CRAYFORD, MURPHY & TILLY, INC.  
 By: *RT* Date: 5-1-88

NOTES  
 FOR GENERAL NOTES SEE SHEET NO. GN1

PRINTED  
 MAY 26 1988  
 HARTWIG MFG. CORP.

FOR INFORMATION ONLY

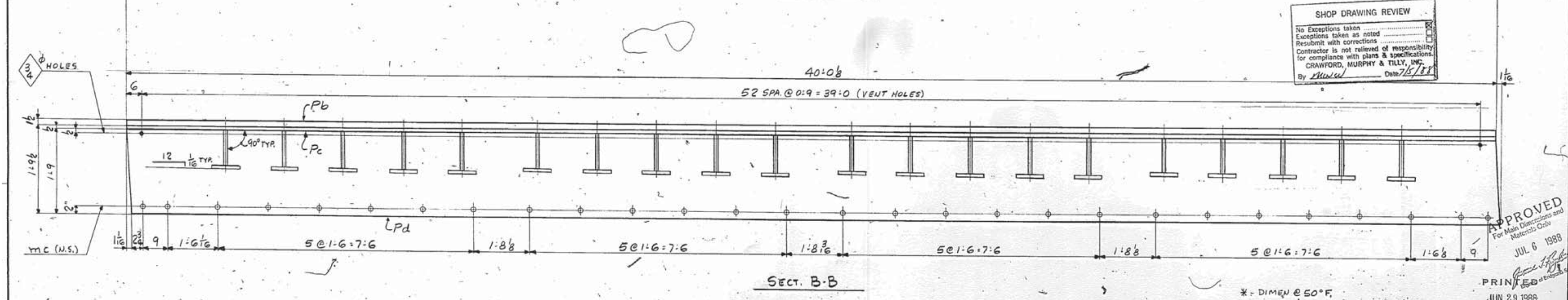
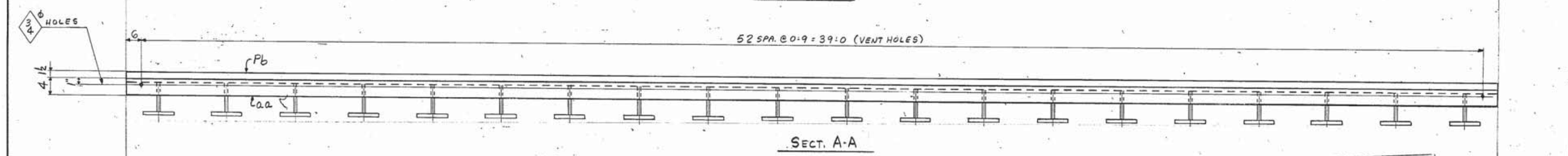
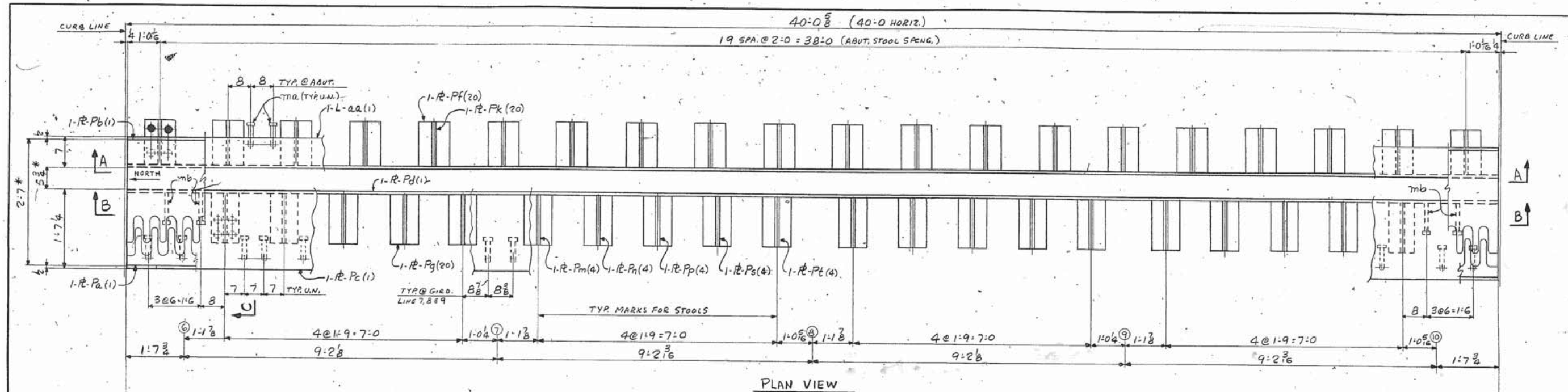
TENSOR 1130-13 DRAWN RT 1/16/88 CHECKED GK 3/16/88 MATERIAL ASTM A36 OPEN HOS 15/16 DIA. (U.N.) SHOP PAINT: SEE GENERAL NOTES APPROVAL		HARTWIG MFG. CORP. WAUSAU, WI 54401	
REVISIONS NO MADE DATE REMARKS		CUSTOMER SHAPPERT ENGINEERING LOCATION PIKE COUNTY, ILLINOIS F. A. ROUTE 408 STRUCTURE SEC. 75-3VNB-1 STA. 974+71.36 PROJECT EASTBOUND LANES UNIT 2 DETAILS OF END CROSSFRAMES @ E. ABUT SPECS BY STATE OF ILLINOIS DEPT. OF TRANS.	SHEET NO. 4 CONTRACT NO. 4951

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>Carl Kruger</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHOP PLANS - FOR INFORMATION ONLY  
 SN 075-0098 (E.B.) & -0099 (W.B.)

F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 55A
SHEET 30 OF 31 SHEETS			CONTRACT NO. 72K66	
ILLINOIS FED. AID PROJECT				



ONE EXPANSION JOINT - 54EJ1

FOR INFORMATION ONLY

SHOP DRAWING REVIEW  
 No Exceptions taken   
 Exceptions taken as noted   
 Resubmit with corrections   
 Contractor is not relieved of responsibility for compliance with plans & specifications  
 CRAWFORD, MURPHY & TILLY, INC.  
 By *Musil* Date 7/6/88

APPROVED  
 For Main Dimensions and Materials Only  
 JUL 6 1988  
 PRINTED  
 JUN 29 1988  
 HARTWIG MFG. CORP.

TENSOR 1130-14 DRAWN ELC 3-2-88 CHECKED GK 3/23/88 MATERIAL A36 (U.N.) OPEN HOLES 13/16 DIA. (U.N.) SHOP PAINT, SEE GENERAL NOTES APPROVAL		HARTWIG MFG. CORP. WAUSAU, WI 54401		CUSTOMER SHAPPERT ENGINEERING		SHEET NO. 54	
NO MADE DATE REVISIONS REMARKS				LOCATION PIKE COUNTY, ILLINOIS F. A. ROUTE 408 STRUCTURE SEC. 75-3VIB-1 STA. 974+71.36		CONTRACT NO. 4951	
WORK THIS SHT. WITH SHT. 55 & 56		* DIMEN @ 50°F		PROJECT EASTBOUND LANES UNIT 2		DETAILS OF EXP. JOINT 54EJ1	
SPEC BY STATE OF ILLINOIS DEPT. OF TRANS.							

DESIGNED - JSB	EXAMINED - <i>Timothy A. Dredt</i> ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 5, 2018
CHECKED - SMR	PASSED - <i>Carl Kreyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JSB SMR		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHOP PLANS - FOR INFORMATION ONLY  
SN 075-0098 (E.B.) & -0099 (W.B.)

F.A.I. RTE. 72	SECTION (75-3)BJR	COUNTY PIKE	TOTAL SHEETS 55	SHEET NO. 55B
CONTRACT NO. 72K66			ILLINOIS FED. AID PROJECT	