04-28-2017 LETTING ITEM 166

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

# 

D-98-061-16



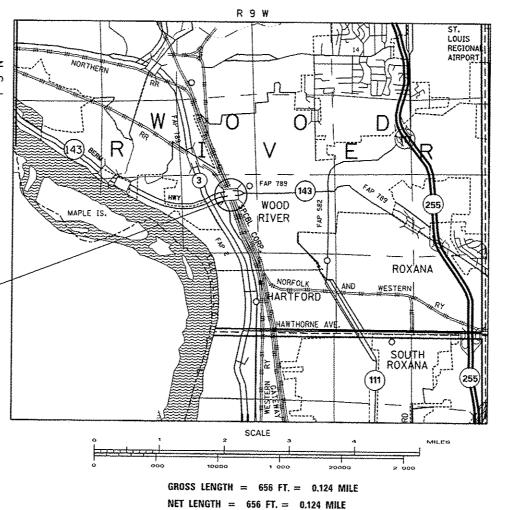
# **PROPOSED**

HIGHWAY PLANS

FAP ROUTE 789 (IL 143) SECTION 1-VB-R-1

BRIDGE DECK WATERPROOFING & JOINT REPAIR MADISON COUNTY

C-98-055-16



2015 ADT = 13800 2037 ADT = 17200 SU = 3.6% MU = 1.4%

FOR INDEX OF SHEETS, SEE SHEET NO. 2

0

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0 100' 200' 300' 1"= 100'
0 10' 20' 30' 1"= 100'
0 50' 100' 1"= 50'
0 50' 100' 1"= 40'
0 50' 100' 1"= 30'
0 50' 100' 1"= 20'

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: TIM PADGETT (618) 346–3325 PROJECT MANAGER: JOHNSON DUROSIER (618) 346–3454

PROJECT LOCATION

SN 060-0212 STA. 15+90.00

IL 143 OVER N&W, ICG & CONRAIL RAILROAD

LATITUDE: 38.859879

LONGITUDE: -90.102248

CONTRACT NO. 76J77

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED

CONTROL

REGIONAL ENGINEER

LACAL SALE

ENGINEER OF DESIGN AND ENVIRONMENT

CONTROL

CON

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

# INDEX OF SHEETS

- 1 COVER
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, & COMMITMENTS
- 3-6 SUMMARY OF QUANTITIES
- 7 TYPICAL SECTIONS
- 8-9 SCHEDULE OF QUANTITIES
- 10 CURB AND GUTTER DETAIL
- 1 PAVEMENT DETAIL
- 12 TRAFFIC CONTROL AND PROTECTION, SPECIAL
- 13 WIDE LOAD SIGNING
- 14-31 STRUCTURE PLANS

#### LIST OF STANDARDS

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

001001-02 AREAS OF REINFORCEMENT BARS

001006 DECIMAL OF AN INCH AND OF A FOOT

420001-08 PAVEMENT JOINTS

606001-06 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

630001-11 STEEL PLATE BEAM GUARDRAIL

630301-07 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS

631031-15 TRAFFIC BARRIER TERMINAL, TYPE 6

635001-02 DELINEATORS

701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE

701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS  $\leq$  40 MPH

701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE

701901-06 TRAFFIC CONTROL DEVICES
704001-08 TEMPORARY CONCRETE BARRIE

704001-08 TEMPORARY CONCRETE BARRIER 725001-01 OBJECT AND TERMINAL MARKERS

725001-01 OBJECT AND TERMINAL MARKERS
780001-05 TYPICAL PAVEMENT MARKINGS

781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

782001-01 CURB REFLECTORS

782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

### GENERAL NOTES

① ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING, FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY	ABOVE GROUND	BELOW GROUND
*AMEREN ILLINOIS	Х	X
*AT&T ILLINOIS	Х	X
*BP PIPELINES (NORTH AMERICA) INC.		X
*CHARTER COMMUNICATIONS, INC.	Х	X
*ENABLE MIDSTREAM PARTNERS		X
*LEVEL (3) COMMUNICATIONS, LLC		X
*LINDE NORTH AMERICA, INC.		X
*MoGAS PIPELINE LLC		X
*SPRINT/NEXTEL		X
*CITY OF WOOD RIVER		X
*ZAYO GROUP LLC		X

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY \*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- (3) REVISE STANDARD SPECIFICATIONS ARTICLE 107.12, PARAGRAPH 5, LAST SENTENCE TO READ: "ALL OTHER RAILROAD FLAGGER COSTS WILL BE INCURRED BY THE DEPARTMENT ACCORDING TO ARTICLE 109.05."

- (4) A CONTRACTOR'S RIGHT-OF-ENTRY PERMIT IS REQUIRED BEFORE ANY WORK CAN COMMENCE ON RAILROAD PROPERTY. THE COST TO OBTAIN THIS PERMIT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- (5) ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMENANTLY SEEDED AS DIRECTED BY THE ENGINEER, ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
- (6) THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING, TOPOGRAPHY, AND QUANTITIES SHOWN IN THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS. ALL SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- (7) CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ALONG IL ROUTE 143 AND IL ROUTE 3 PRIOR TO THE PORJECT LIMITS. THE LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- (8) THE LOCATIONS OF THE REPAIR AREAS AS SHOWN IN THE PLANS ARE APPROXIMATE LOCATIONS. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- (9) THE COMBINATION CURB AND GUTTER SHALL BE CONSTRUCTED PRIOR TO BRIDGE DECK STAGING AND REPAIR.
- (O) EXCAVATION REQUIRED FOR THE CONSTRUCTION OF COMBINATION CURB AND GUTTER SHALL BE INCLUDED IN THE COST OF COMBINATION CURB AND GUTTER, TYPE B-6.24.
- (1) REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTED BARRICADES, NO LOCATIONS WILL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.
- (2) A QUANTITY OF 3400 FEET OF TEMPORARY PAVEMENT MARKING LINE 6" HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER.
- (3) THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

SCALE:

ROUTE	FAP 789
SECTION	1-VB-R-1
COUNTY	MADISON
CONTRACT	76J77

		Waterproofing,				on Il	143	at	N&W	ICG	&
5200111111011	Conrail Railr	oad, 0.3 E of IL	3 - SN	060-021	2						

MIXTURE USE	BRIDGE DECK	BRIDGE APPROACH	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"
AC/PG	SBS PG 76-22	SBS PG 76-22	SBS PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=30	4.0% @ Ndes=30
MIX COMPOSITION (Gradation)	IL 9.5	IL 9.5	IL 19.0L	IL 9.5L
FRICTION AGG	MIXTURE "D"	MIXTURE "D"		
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA

Plan quantities for Bituminous Surface Course items are calculated using a unit weight of 112 lb/sq yd/in (59.8 kg/sq m/25 mm thickness)

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STATE	: OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

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SHEET	1	0F	1	SHEETS	STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789 1-VB-R-1		MADISON	31	2
		CONTRACT	NO. 7	6J77
	TILINOIS FED AT	D PROJECT		

COMMITMENTS

NONE

			[	CONSTR. CODE
				100 % STATE
				URBAN
		teritoria.		BRIDGE
CODE			TOTAL	0014 🗸
NO.	ITEM	UNIT	QUANTITY	S.N. 060-0212
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	so yo	106	106
35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10"	SQ YD	56	56
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	755	755
10000230	BITOMINOUS WATERIALS TAUN COATT	FOONU	133	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	so yo	427	427
40603540	POLYMEDITED HOT MIY ACRUALT SUDEACE COURSE HIV "O" HZO	TON	205	₹0₡
40803340	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	385	385
44000300	CURB REMOVAL	FOOT	14	14
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	250	250
44000600	SIDEWALK REMOVAL	SO FT	247	247
50102400	CONCRETE REMOVAL	CU YD	23.8	23. 8
			Annual	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	39.1	39. 1
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUNQ	7840	7840
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8680	8680
50800515	BAR SPLICERS	EACH	48	48
			A CALLED AND A CAL	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	138	138

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QU	ANTITIES	F,A.P RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
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				CONTRACT	NO.	76J77
SCALE: SHEET 1 OF 3 SHEETS	STA. TO STA.	ELLINOIS FED. AID PROJECT				

	<u> </u>			CONSTR. CODE  100 % STATE  URBAN  BRIDGE
CODE			TOTAL	0014
NO.	ITEM	UNIT	QUANTITY	S. N. 060-021
58100200	WATERPROOFING MEMBRANE SYSTEM	SO YD	2386	2386
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE 8-6.24	FOOT	250	250
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75	75
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3	3
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3
63200310	GUARDRAIL REMOVAL	FOOT	306	306
63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	LSUM	4-1	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	dependence of the second secon	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	de terresidad de la constantidad	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	174	174
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	58	58
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2952	2952

\* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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										789		I-R-I	MADISON	31	4
										_			CONTRACT	NO.	76J77
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			F	CONSTR. CODE
				100 % STATE URBAN
CODE			TOTAL	BRIDGE 0014
NO.	ITEM	UNIT	QUANTITY	S. N. 060-0212
			and sylvestic transferring and second	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3400	3400
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1700	1700
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1700	1700
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2952	2952
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	18	18
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	53	<i>5</i> 3
78200020	CURB REFLECTORS	EACH	33	33
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18	18
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	984	984
X5870015	BRIDGE DECK CONCRETE SEALER	SO FT	8253	8253

101

\* SPECIALTY ITEM

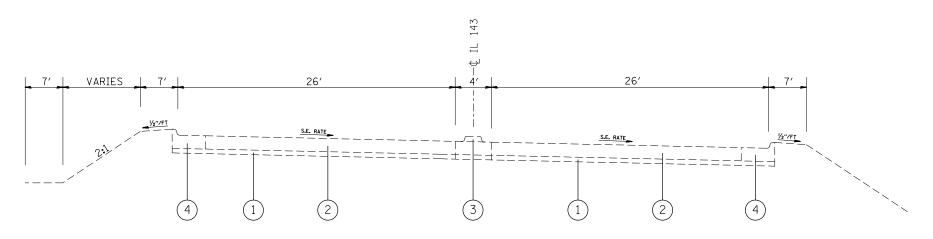
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				BRIDGE
CODE	417		TOTAL	0014
NO.	ITEM	UNIT	QUANTITY	S.N. 060-0212
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	the state of the s	1
			****	
x7015005	CHANGEABLE MESSAGE SIGN	CAL DA	360	360
			****	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	984	984
			1	
X7200200	WIDE LOAD SIGNING	LSUM	and the state of t	1
			***************************************	
20001903	STRUCTURAL STEEL REMOVAL	POUND	7730	7730
***************************************			And the second s	
Z0016200	DECK SLAB REPAIR (PARTIAL)	\$0 YD	20	20
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	40-	1

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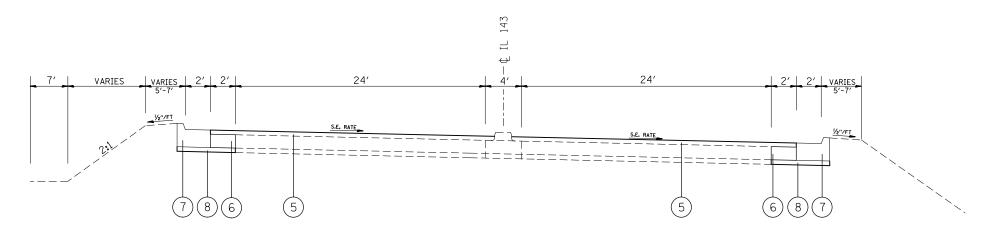
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		SUMMARY OF QUANTITIES						F.A.P RTE.	SECTION	COUNTY	TOTAL	SHEET NO.			
											789	1-V8-R-1	MADISON	31	6
		1						<del></del>		· · · · · · · · · · · · · · · · · · ·			CONTRAC	T NO.	76J77
SCALE: SHEET 3 OF 3 SHEETS STA.					TO STA.			ILLINOIS FED. A	O PROJECT						



# EXISTING TYPICAL SECTION

STA 12+76 TO STA. 13+16 STA 18+92 TO STA. 19+32



# PROPOSED TYPICAL SECTION

STA 12+76 TO STA. 13+16 STA 18+92 TO STA. 19+32

# LEGEND

- 1) EXISTING SUB-BASE GRANUALR MATERIAL, TYPE A 4"
- ② EXISTING REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 10"
- 3 EXISTING CONCRETE MEDIAN
- @ EXISTING COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24
- (5) PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX D, N70
- 6 PROPOSED PCC BASE COURSE WIDENING, 10"
- 7 PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24
- PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A 4"

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		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	T NO. 7	âJ77
	Default	PLOT DATE = 2/3/2017	DATE -	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FED. A			

	STAGING SCHEDULE													
LOCATION	STRUCTURE NUMBER	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	BARRIER WALL REFLECTORS, TYPE C	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	TEMPORARY PAVEMENT							
		FOOT	FOOT	EACH	EACH	EACH								
IL 143 over RR	060-0212													
STAGE I		1700.0		21.3	2		1700.0							
STAGE II			1700.0	21.3		2	1700.0							
TOTAL		1700.0	1700.0	42.6	2	2	3400.0							

	CURB AND GUTTER SCHEDULE												
LOCATION		EB/WB	COMBINATION CURB AND GUTTER REMOVAL	SUBBASE GRANULAR MATERIAL, TYPE A 4"	PCC BASE COURSE WIDENING, 10"	COMBINATION CURB AND GUTTER, TYPE B-6.24	CURB REMOVAL						
			FOOT	SQ YD	SQ YD	FOOT	FOOT						
12+76	ТО	14+01	EB	125	52.8	27.8	125						
14+01	ТО	14+15	EB					14					
18+07	ТО	19+32	WB	125	52.8	27.8	125						
Т	OTAL	_:		250	105.6	55.6	250	14					
						1							

	GUARDRAIL/BARRIER SCHEDULE													
LOCATION		ON	LENGTH	GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	SPBGR, TYPE A, 6 FOOT POSTS	REMOVE AND REERECT TBT, TYPE 6	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE C			
STA	ТО	STA		FOOT	EACH	EACH	FOOT	EACH	EACH	EACH	EACH			
IL 143	3 EAS	TBOUND												
13+00	ТО	14+16	116	116	1	1	25.0		1	4				
14+16	ТО	17+92	376								5			
17+92	ТО	18+30	38					1						
IL 143	3 WES	TBOUND												
13+00	ТО	14+16	116	75	1	1	25.0		1	4				
14+16	ТО	17+92	376	30							5			
17+92	ТО	18+92	100	85	1	1	25.0		1	4				
	TOTAL	.:		306	3	3	75.0	1	3	12	10			

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	PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO. 76	6J77
Default	PLOT DATE = 2/22/2017	DATE -	REVISED -		SCALE:	SHEET 1	OF 2 SHEET	S STA.	TO STA.		ILLINOIS FED.	AID PROJECT		-

					F	PAVEME	NT MAF	RKING	SCHED	ULE						
	LOCATION		PAVEMENT MARKING REMOVAL - WATER BLASTING		THERMOPLASTIC PAVEMENT MARKING LINE - 4"						ISED RE AVEMENT			CURB REFLECTORS		
1.0					SKIP-DASH SOLID		S0	LID	REM	OVAL	N	ΞW		.01013		
					(WHITE) (WHITE) (YE		( YEI	LOW)	1 -	WAY	1 -	WAY	AMI	BER		
					FO	ОТ	FOOT FOOT		E.A	/CH	EΑ	СН	EACH			
			EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12+76	ТО	14+16	105	105	35	35	140	140	140	140	2	2	2	2	3.5	3.5
14+16	ТО	17+92	282	282	94	94	376	376	376	376	5	5	5	5	9.4	9.4
17+92	ТО	19+32	105	105	35	35	140	140	140	140	2	2	2	2	3.5	3.5
SUE	3-T0	TAL	492	492	164	164	656	656	656	656	9	9	9	9	16.4	16.4
TOTAL			984		2952				18		18		32	2. 8		

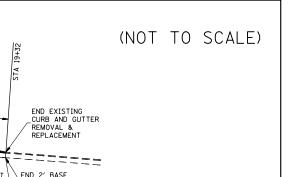
		DE	CUDE ACTNO. CO	HEDIN E	
		KE	SURFACING SC	HEDULE	T
LC	OCAT]	[ON	BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HMA SURFACE COURSE, MIX "D", N70	PCC SURFACE REMOVAL - BUTT JOINT
STA	STA TO STA		POUND	TON	SQ YD
IL 143	EAS	STBOUND			
12+76	12+76 TO 14+01		166	41	106.7
14+01	TO 14+16		21	5	
17+92	ТО	18+92	138	34	
18+92	ТО	19+32	53	13	106.7
IL 143	WES	STBOUND			
12+76	ТО	13+16	53	13	106.7
13+16	ТО	14+16	138	34	
17+92	ТО	18+07	21	5	
18+07	ТО	19+32	166	41	106.7
7	ΓΟΤΑΙ	L:	755	188	426.7

			TEMPORA	ARY PAVE	MENT MA	RKING :	SCHEDULE			
LOCATION			SHORT TERM PAVEMENT MARKING FOOT		SHORT TERM PAVEMENT MARKING REMOVAL		TEMPORARY PAVEMENT MARKING LINE - 4" FOOT		TEMPORARY PAVEMENT MARKING REMOVAL	
12+76	ТО	14+01	12.5	12.5	4.2	4.2	281.3	281.3	93.8	93.8
14+01	TO	18+07	56.8	56.8	18.9	18.9	913.5	913.5	304.5	304.5
18+07	TO	19+32	17.5	17.5	5.8	5.8	281.3	281.3	93.8	93.8
9	SUBTO	TAL	87	87	29	29	1476	1476	492	492
	TOTA	\L	174		58		2952		984	

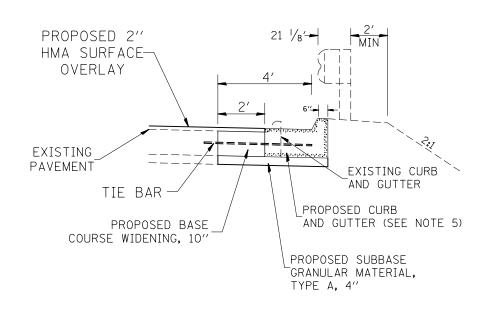
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STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

		SC	HEDL	JLE	OF QU	ANTITIES		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								789	1-VB-R-1	MADISON	31	9
										CONTRACT	T NO.	76J77
SCALE:	SHEET	2	OF	2	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



# BEGIN EXISTING CURB AND GUTTER REMOVAL BEGIN EXISTING -CURB AND GUTTER REPLACEMENT PROPOSED PARAPET LIGHT POST TO PROPOSED PARAPET ON MOMENT SLAB (SEE BRIDGE PLANS) BE RELOCATED STA. 18+20 BY CITY OF WOOD RIVER ON MOMENT SLAB (SEE BRIDGE PLANS) STA 14+16-\END 2' BASE COURSE WIDENING -STA 17+92 \_END 2' BASE COURSE WIDENING PAVEMENT BEGIN 2' BASE COURSE WIDENING BEGIN EXISTING CURB AND GUTTER-REMOVAL BEGIN 14' CURB REMOVAL, SPECIAL LIGHT POST TO BE RELOCATED STA. 13+21.55 BY CITY OF WOO RIVER END CURB AND GUTTER REMOVAL & PROPOSED CURB AND GUTTER BEGIN EXISTING CURB AND GUTTER-/ REPLACEMENT



SECTION A-A

# CURB AND GUTTER DETAIL

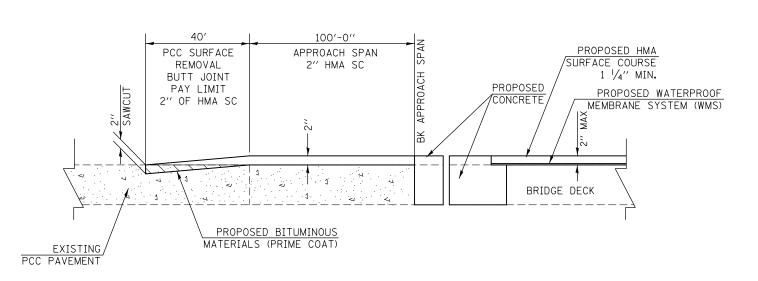
# GENERAL NOTES

- 1. THE REMOVAL OF EXISTING CURB AND GUTTER SHALL BE PAID FOR AS COMBINATION CURB AND GUTTER REMOVAL.

  A SAW CUT SHALL BE MADE AT THE SHOULDER-PAVEMENT JOINT TO SUFFICIENTLY SEVER THE EXISTING TIE BARS.

  THE COST OF THE SAW CUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR COMBINATION CURB AND GUTTER REMOVAL.
- 2. WHEN CURB & GUTTER IS ADJACENT TO THE APPROACH PAVEMENT, NO. 6 LONGITUDINAL TIE BARS SHALL BE PLACE AT 24" CENTERS IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINTS SHOWN ON HIGHWAY STANDARD 420001. THE COST OF TIE BARS SHALL BE INCLUDED IN CONTRACT UNIT PRICE FOR COMBINATION CURB AND GUTTER, TYPE B-6.24.
- 3. THE TRANSITON FOR CURB AND GUTTER SHALL BE MADE IN 40 FEET AND WILL BE PAID FOR AS COMBINATION CURB AND GUTTER, TYPE B-6.24.
- 4. A MINIMUM CLEARANCE OF 2" BETWEEN THE END OF THE TIE BAR AND THE BACK OF THE CURB SHALL BE MAINTAINED.
- 5. CONSTRUCT THE PROPOSED CURB AND GUTTER TO MATCH THE FINAL GRADE OF THE HMA SURFACE AND THE EXISTING CURB AND GUTTER.
- 6. SEE GUARDRAIL SCHEDULE FOR LOCATIONS OF EXISTING GUARDRAIL REMOVAL AND REPLACEMENT.

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	NO. 76J77
Default PLOT DATE = 2/3/2017 DATE - REVISED - REVISED - SCALE: SHEET 1 OF 1 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT	



NOTE: THE 2" HMA OVERLAY SHALL EXTEND TO THE MEDIAN CURB FACE.

BUTT JOINT DETAIL

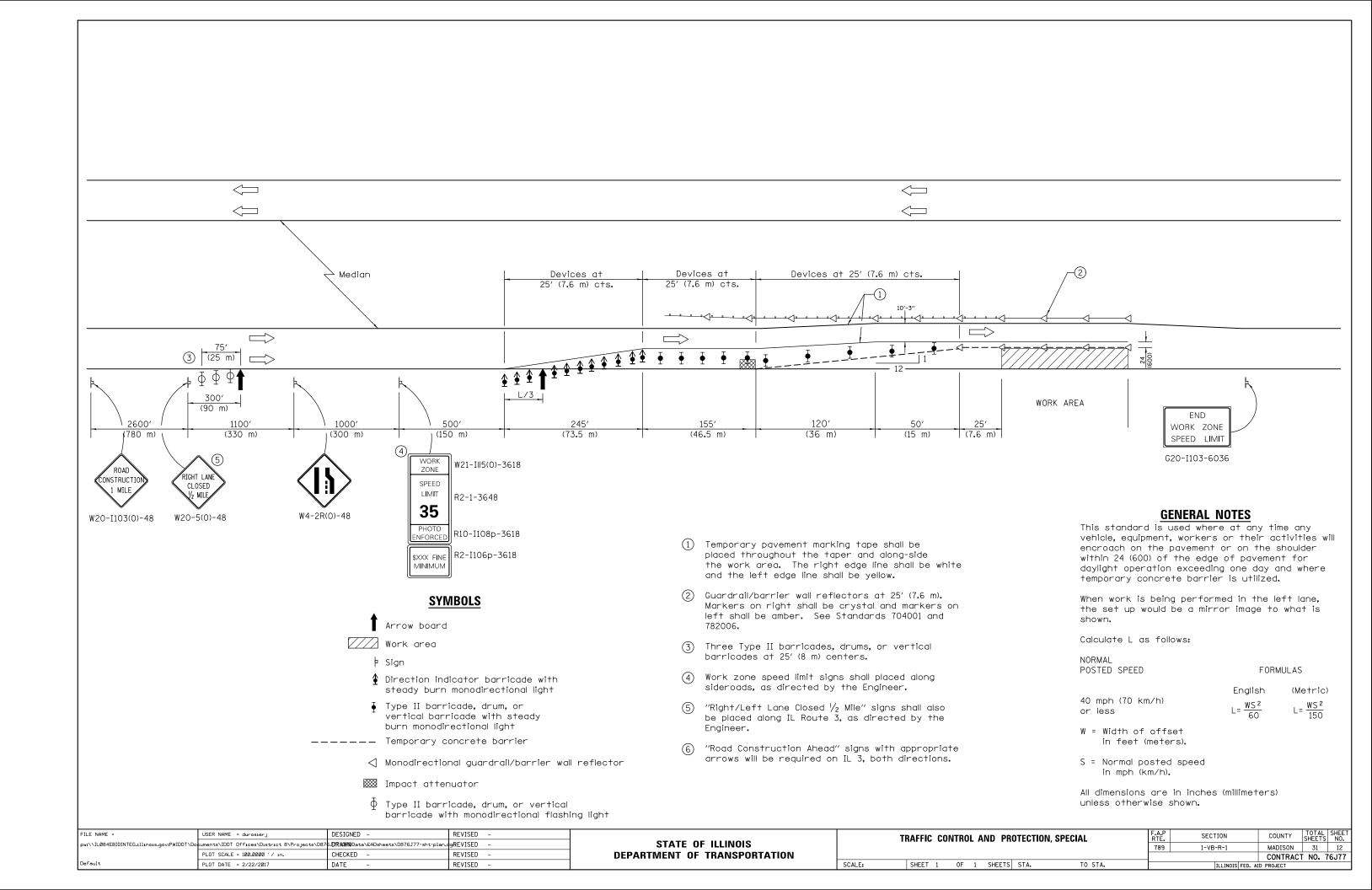
EAST/WEST END OF STRUCTURE
SAW CUT TO BE INCLUDED IN THE COST OF
PCC SURFACE REMOVAL- BUTT JOINT

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STATE (	OF ILLINOIS
DEPARTMENT O	F TRANSPORTATION

SCALE:

PAVEMENT DETAIL	F.A. RTE		ION	COUNTY	TOTAL SHEETS	SHEET NO.
	789	89 1-VB-	R-1	MADISON	31	11
				CONTRACT	NO. 7	6J77
SHEET 1 OF 1 SHEETS STA.	TO STA.	l <sub>T</sub>	LLINOIS FED. AID	PROJECT		



#### NOTES:

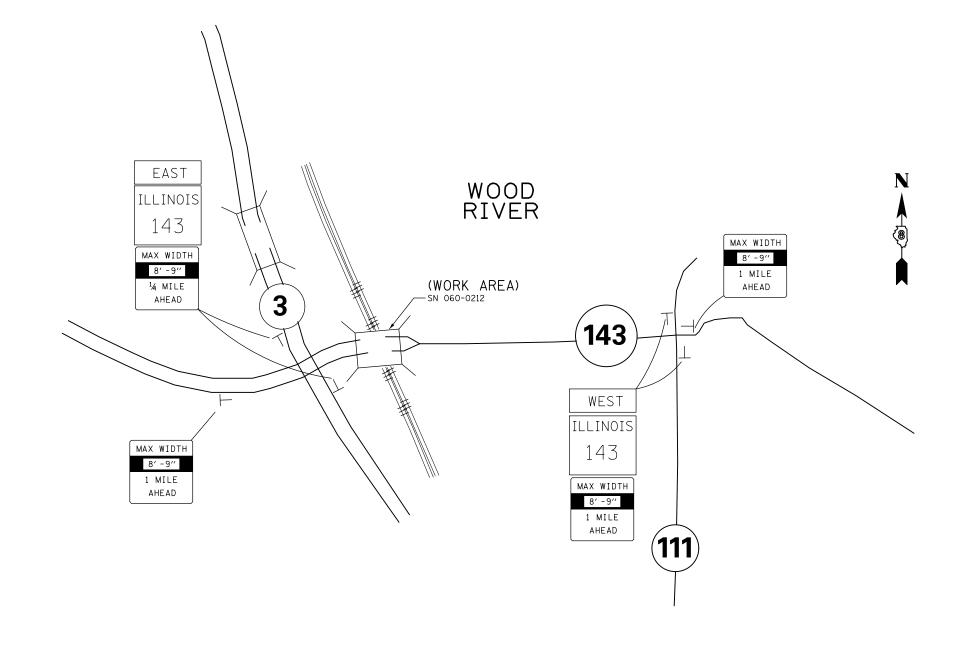
- 1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
- 2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL GIVE THE ILLINOIS DEPARTMENT OF TRANSPORTATION TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS., AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE 618-394-2189.
- 4. THE ABOVE NOTED WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
- 5. SIGN SPACING FROM INTERSECTIONS SHALL BE 400' OR TO FIT FIELD CONDITIONS.
- 6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN  $6^\prime\star$

# SIGNS REQUIRED MAX WIDTH EAST (2) 8' -9" (2) 1/4 MILE AHEAD WEST (2) MAX WIDTH ILLINOIS 8' -9" (4) 1 MILE 143 AHEAD

# IL 143 BRIDGE DECK REPAIR

SN 060-0212 (EB/WB) OVER RAILROAD

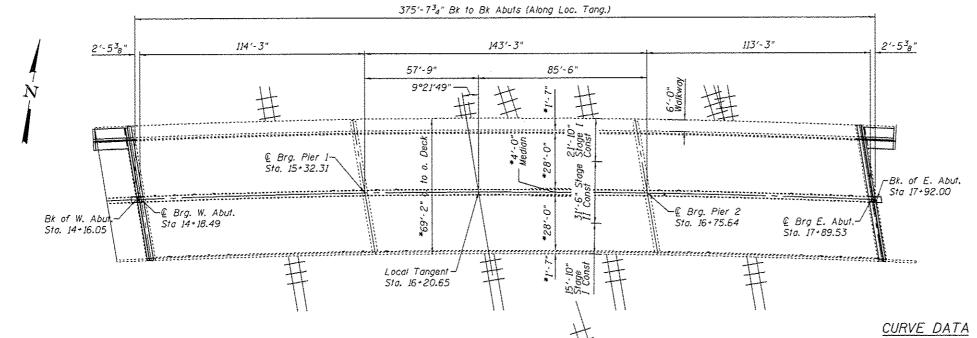
STAGE I/II WIDE LOAD SIGNING



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WIDE LOAD SIGNING					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				789	1-VB-R-1	MADISON	31	13
						CONTRACT	NO.	76J77
SHEET 1	OF 1	SHEETS STA.	TO STA.		TILITNOTS EED AT	D PROJECT		

ELEVATION



PLAN

+5.00% 5.00% 14+10 Sta

EXISTING PROFILE GRADE

#### DAVID CARL SCOPE OF WORK PUZEY

- Replace deck ends & hatchblacks
- Install Preformed Joint Strip Seals
- HMA overlay with WMS on deck
- Deck Slab Repair (Partial)
- Sidewalk Removal & Replacement
- Replace diaphragms & cross frames at abutments with new galvanized diaphragms & crossframes.
- Replace the approach sidewalk, adjacent curb & gutter, bridge approach shoulder & guardrail with bridge approach pavement with parapet to the limits shown on the plans
- Beam end repair (Galvanized)

# INDEX OF SHEETS

\* Measured radially

- General Plan & Elevation 2. Deck Cross Section
- & Waterproofing Staging
- 3. Joint Removal 4. Joint Replacement (W. Abut.)
- 5. Joint Replacement (E. Abut.)
- 6. Joint Details
- 7. Approach Details
- 8. Median Cross Section
- 9. Approach Parapet 10. Structural Steel
- 11. Structural Steel Details (W. Abut)
- 12. Structural Steel Details (E. Abut)
- 13. Beam End Repair (W. Abut.-Bm 8)
- 14. Strip Seal Details 15. Temporary Concrete Barrier
- 16. Bar Solicers
- 17. Fence Anchorage Details 18. For Information Only (F.I.O.) -
- Existing Fence

## GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

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

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

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

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

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

Bridge deck concrete sealer shall be placed on top/inside faces of parapets (full length) and wingwalls. In addition, place sealer on median (full length), on top of new concrete at joints and on sidewalk & curb adjacent to wingwall.

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

All structural steel shall conform to AASHTO Claasification M270 Grade 36. unless otherwise noted.

Fasteners shall be high strength bolts. Balt 34 4, open holes 13,6 4, unless otherwise noted.

All structural steel, bolts, nuts, and washers shall be galvanized according to AASHTO Mill or M232 as applicable. Cost included with Furnishing and Erecting

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

# TOTAL BILL OF MATERIAL

F1, Z Yd, 2	97 247 3.8
Yd. 2	
	73.0
7	
Yd. 3	9.1
und 8	680
ind 7	840
ch 4	8
ot 1.	38
Yd. 2	386
Ft. 8	253
ind 7	730
Yd. 2	?0

\*\*The quantity of deck slab repair is estimated. The engineer in the field shall determine the actual quantity and locations.

DESIGNED - AYV DATE - APRIL 28, 2017 CHECKED - ATH REVISED DRAWN - AYV CHECKED - ATH

........

081-005470

**EPRINGFIELD** 

BLINOIS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GENERAL PLAN & ELEVATION (IL 143 over RR - Phoebe Goldberg Bridge) SN 060-0212 SHEET NO. 1 OF 18 SHEETS

P.I. Sta. 16+10.83

D = 1°-15'

L = 1511.64 E = 63.03'

Range 9W. 3rd. P.M.

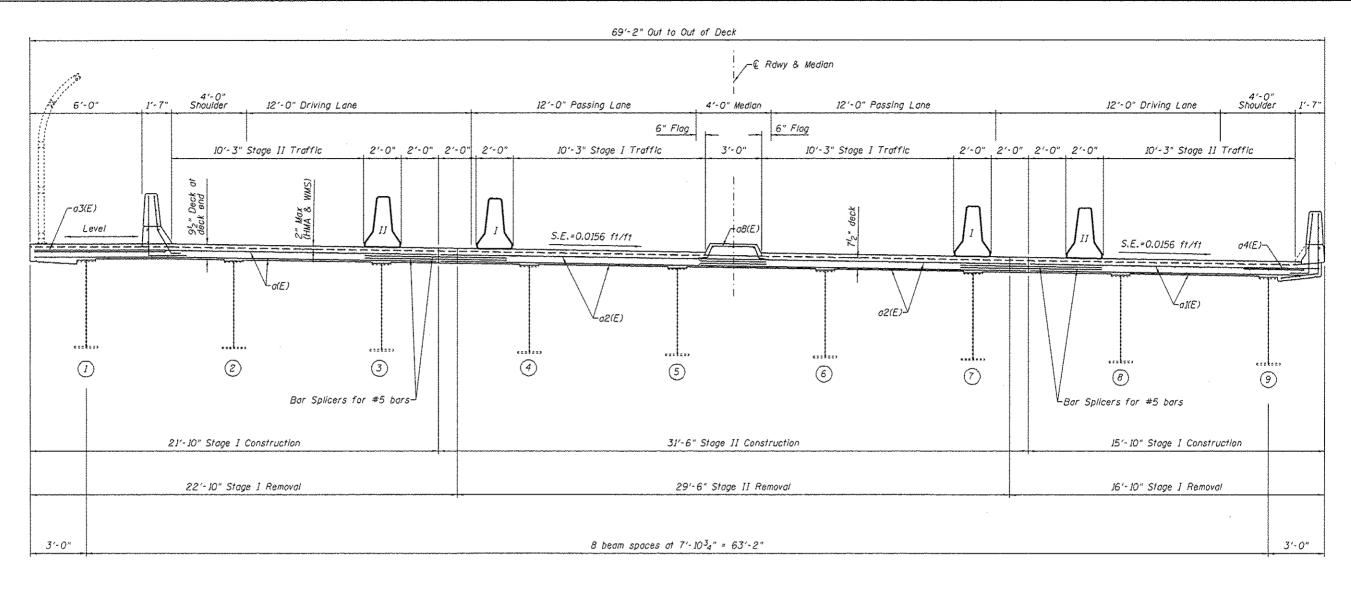
LOCATION SKETCH

S.E. = 0.0156'/'

R = 4583,66' T = 762.75'

A = 18°-53'-44" Rt.

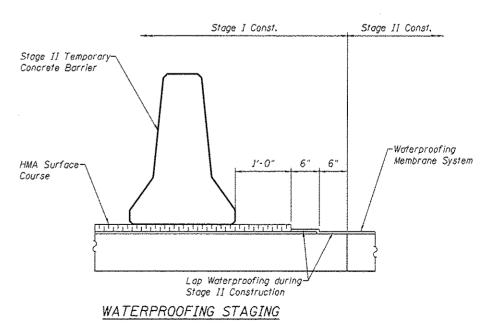
MADISON 31 14 CONTRACT NO. 76J77



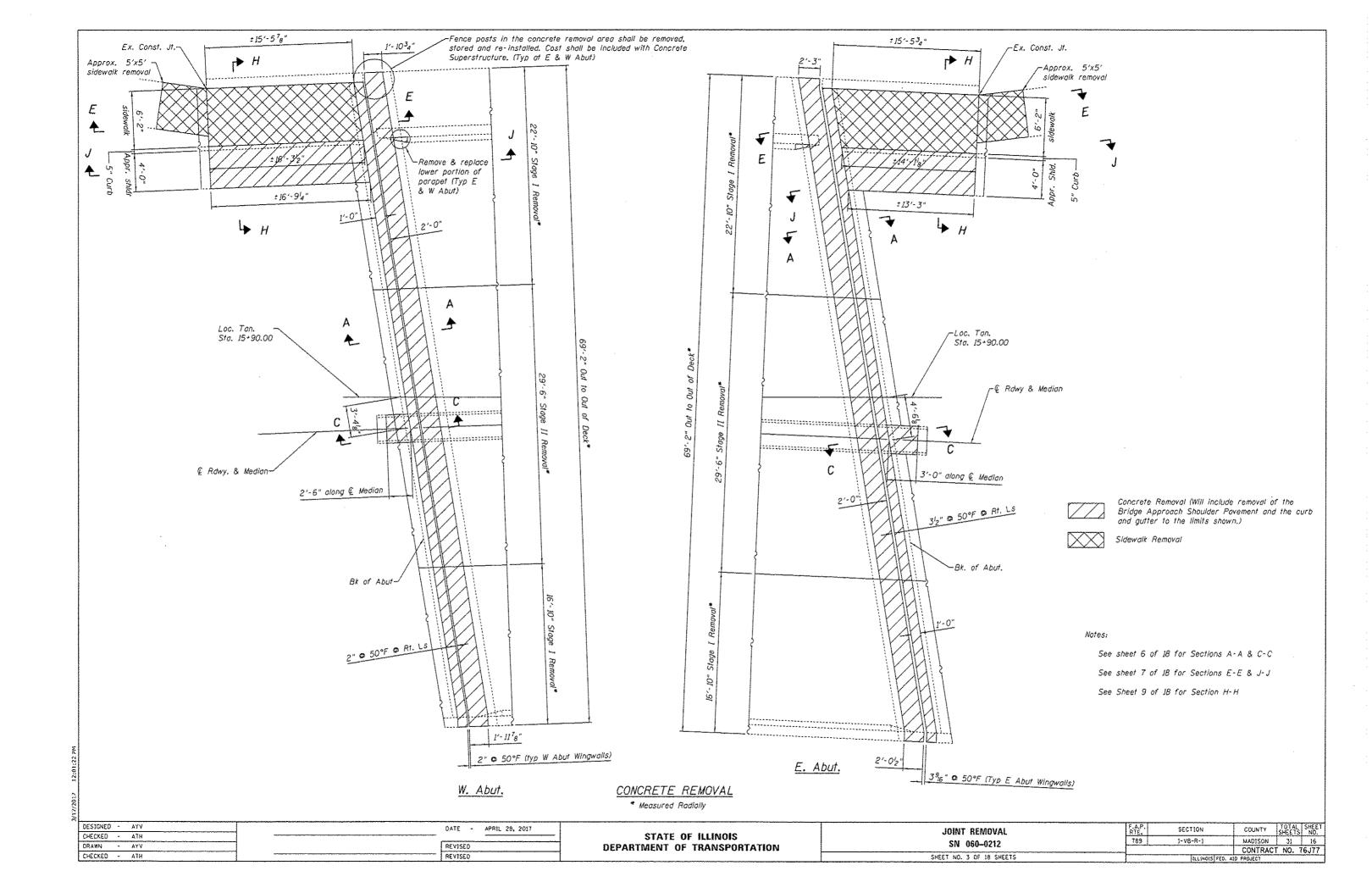
# DECK CROSS SECTION

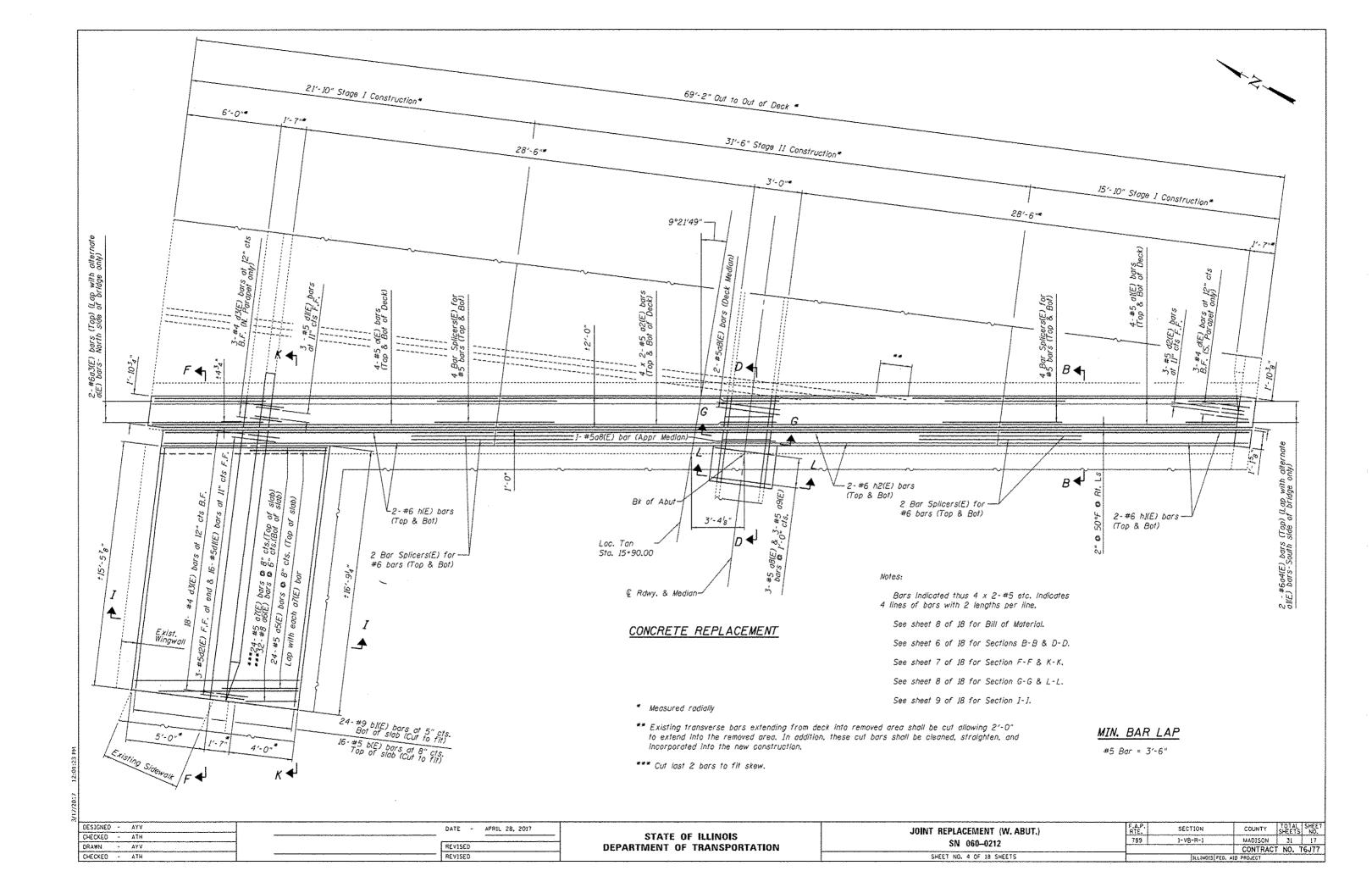
Looking East 🛭 Joint Location

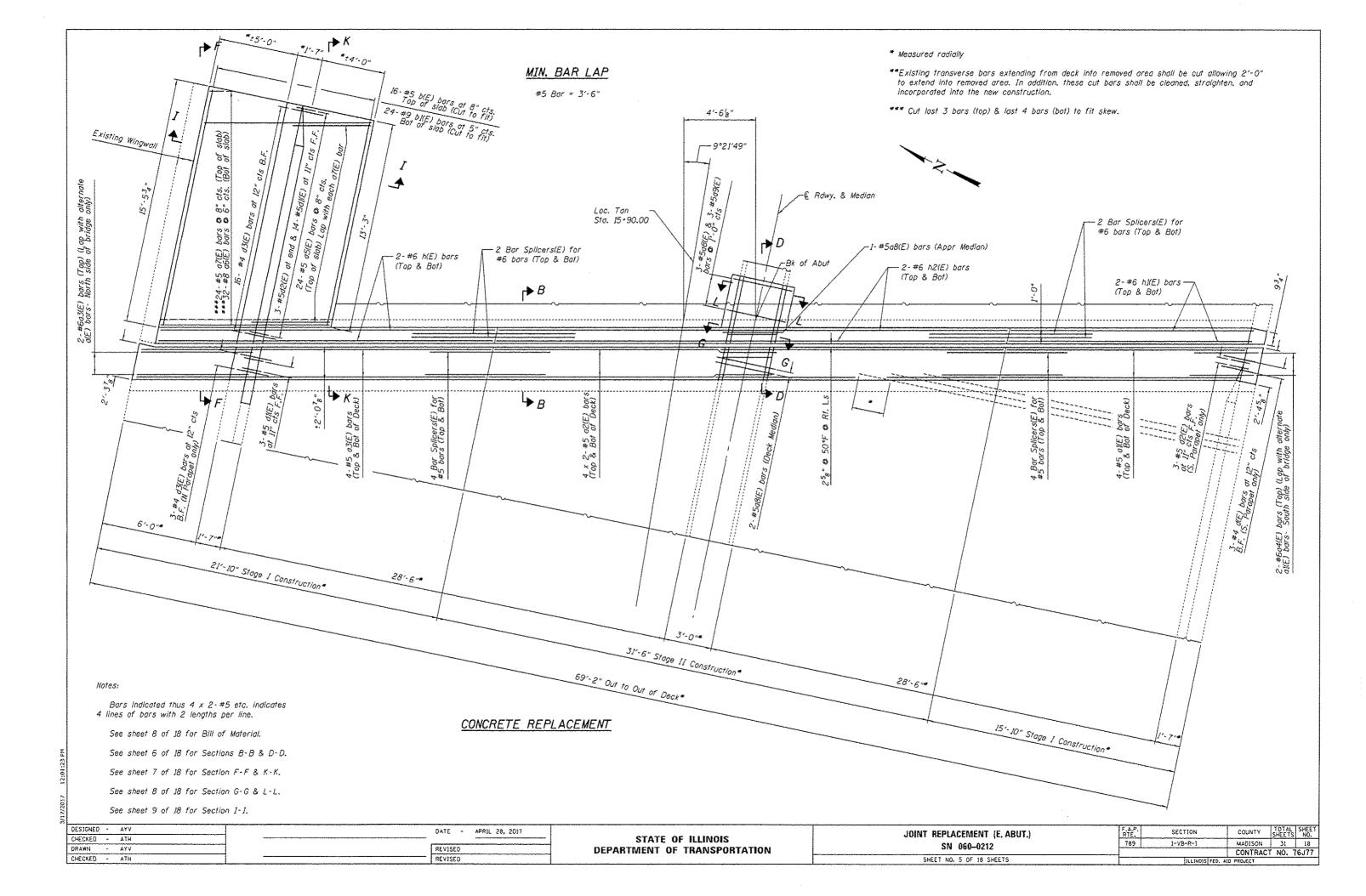
All horizontal dimensions in Deck Cross Section are radial.

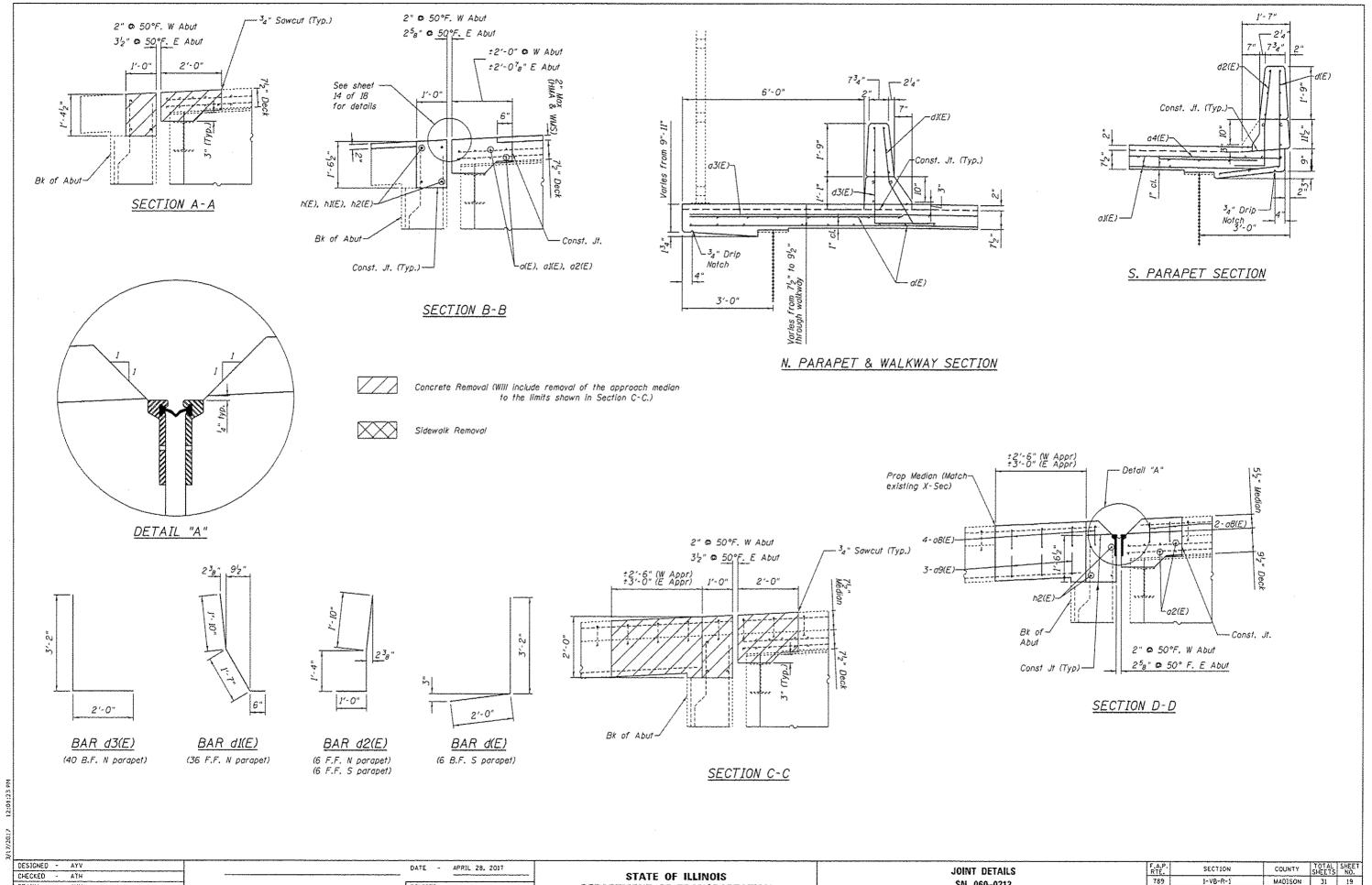


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DESIGNED - AYV	DATE - APRIL 28, 2017		DECK CROSS SECTION & WATERPROOFING STAGING	F.A.P. SECTION COUNTY TOTAL SHEET
CHECKED - ATH		STATE OF ILLINOIS		789 1-V9-0-1 MADISON 31 15
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		DELAUTMENT OF THEMSEONIATION		CONTRACT NO. 16377
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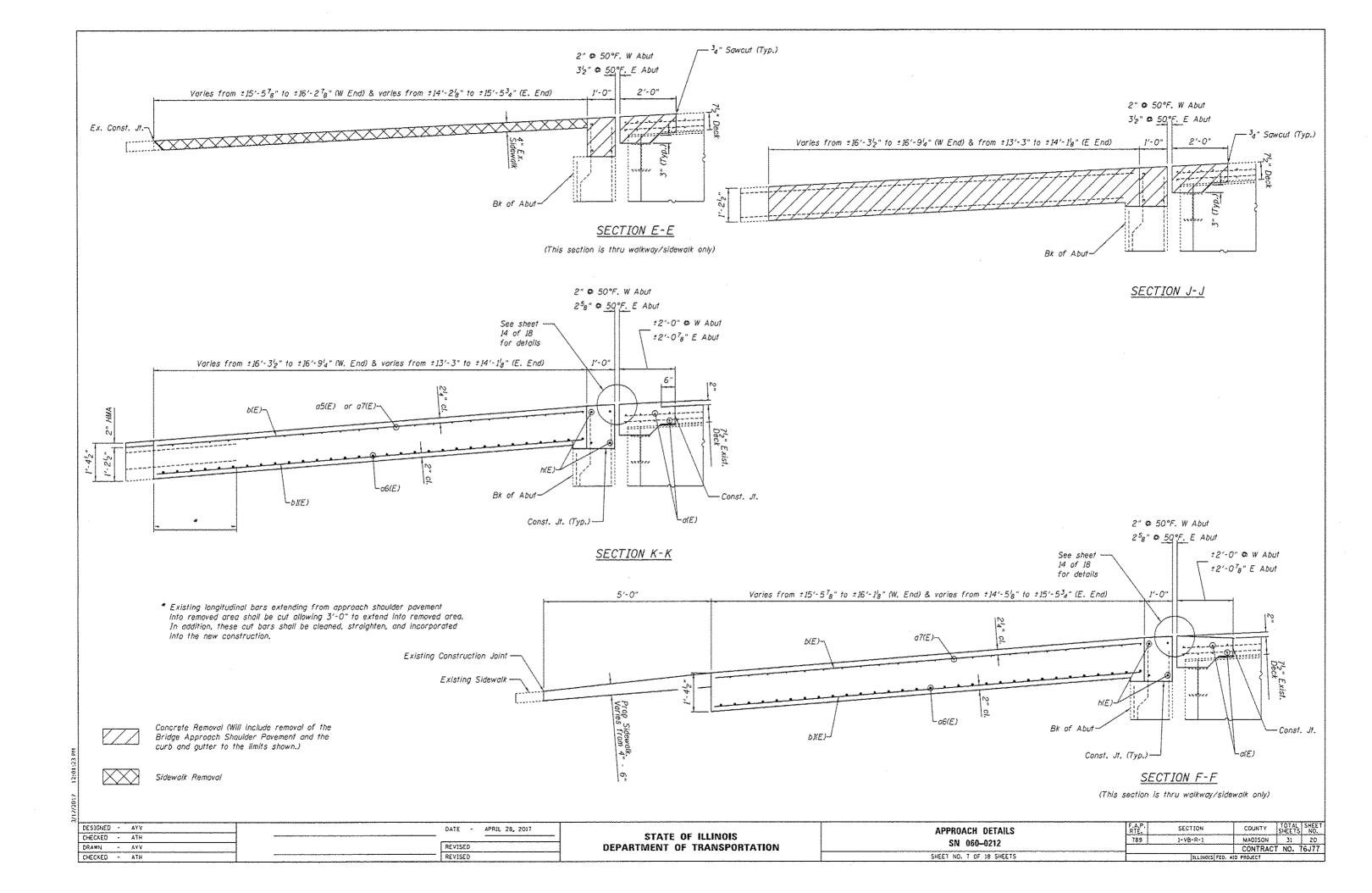


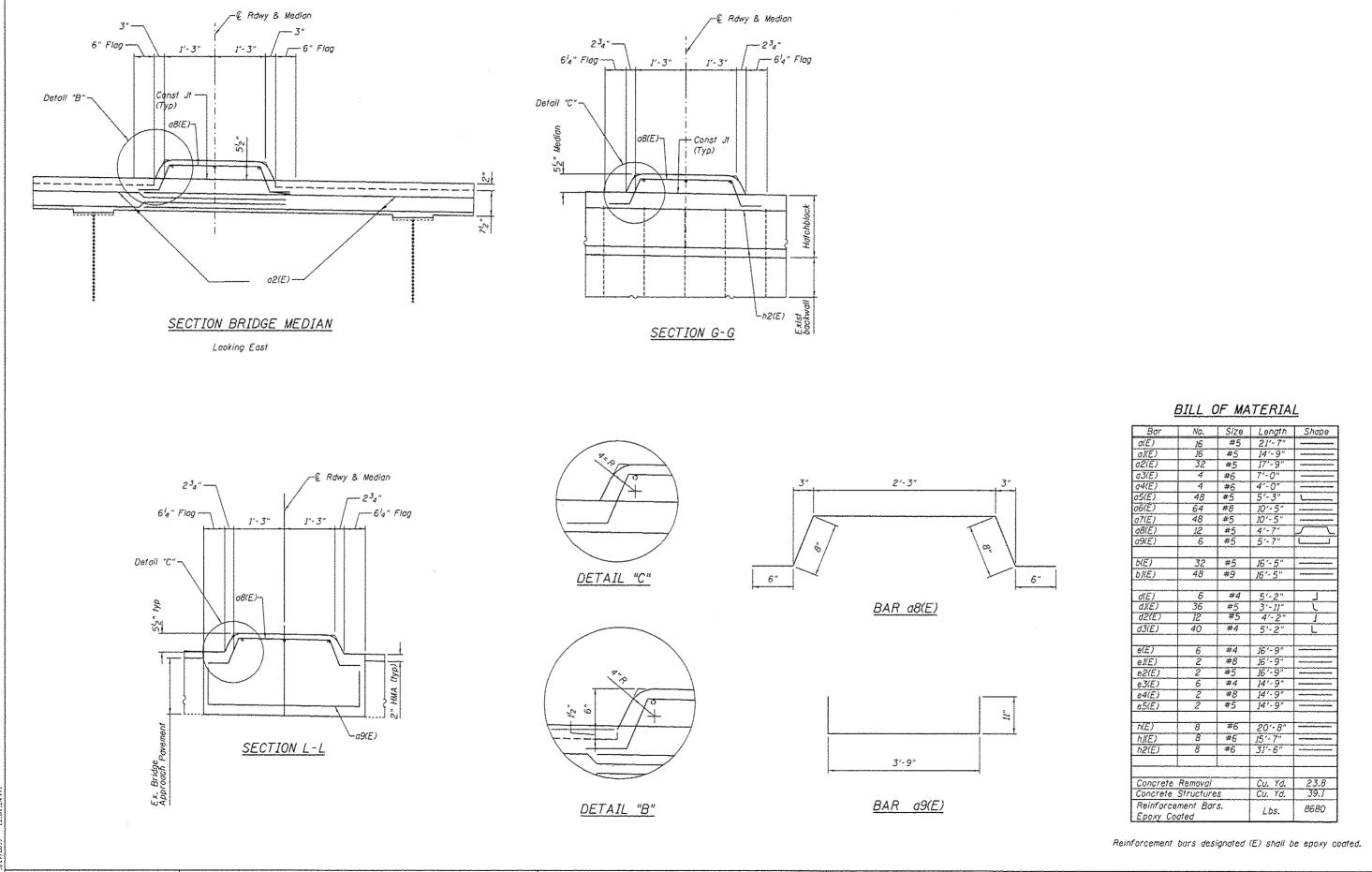




DRAWN - AYV REVISED DEPARTMENT OF TRANSPORTATION CHECKED - ATH REVISED

MADISON 31 19 CONTRACT NO. 76J77 1-VB-R-1 789 SN 060-0212 SHEET NO. 6 OF 18 SHEETS





DESIGNED - AYV
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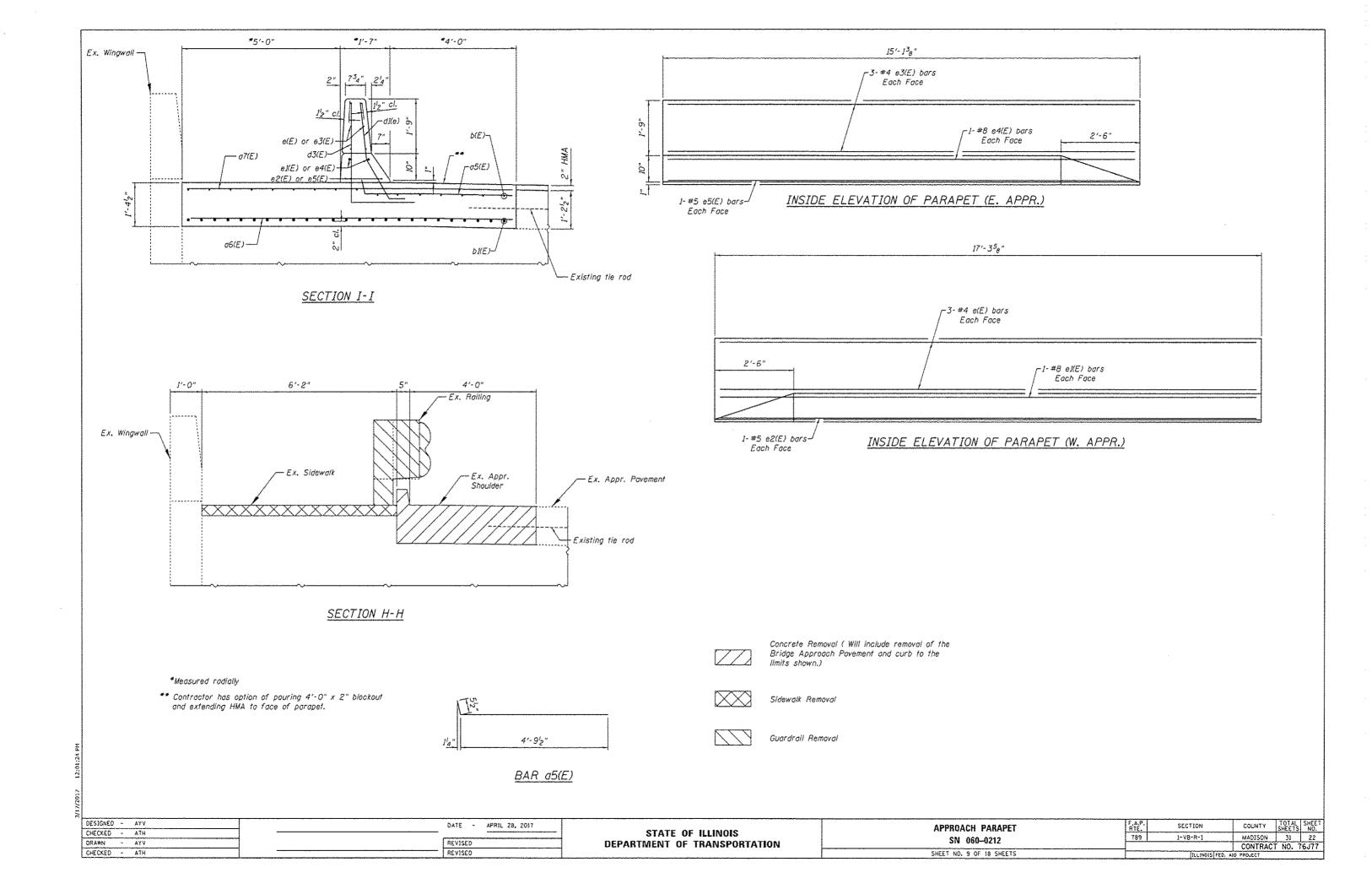
DATE - APRIL 28, 2017

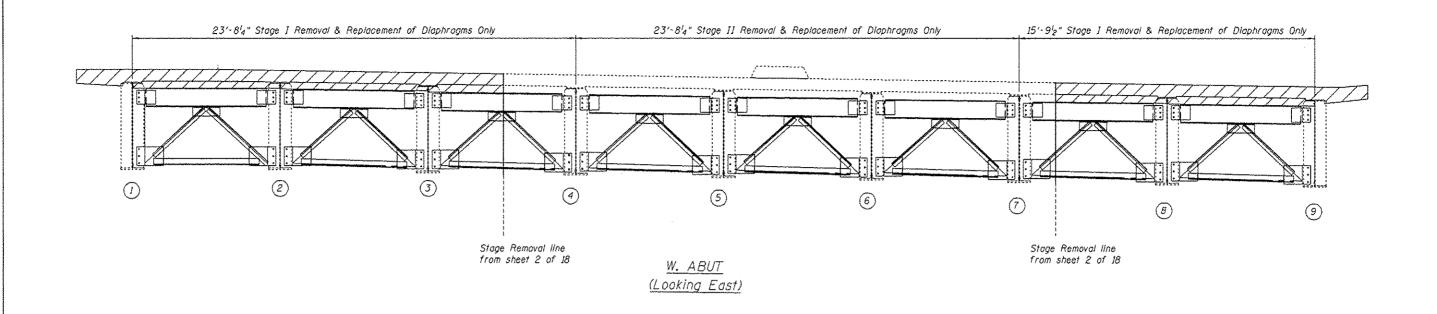
REVISED

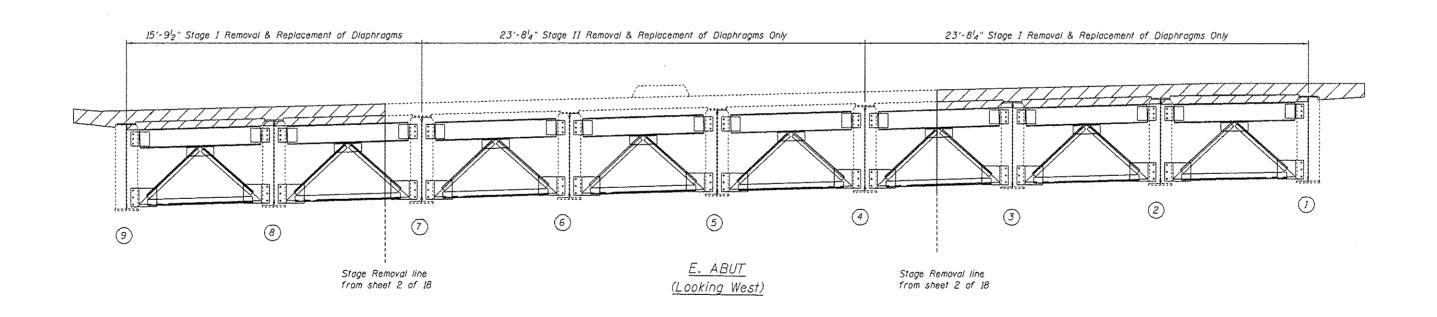
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MEDIAN CROSS SECTION
SN 060-0212
SHEET NO. 8 OF 18 SHEETS





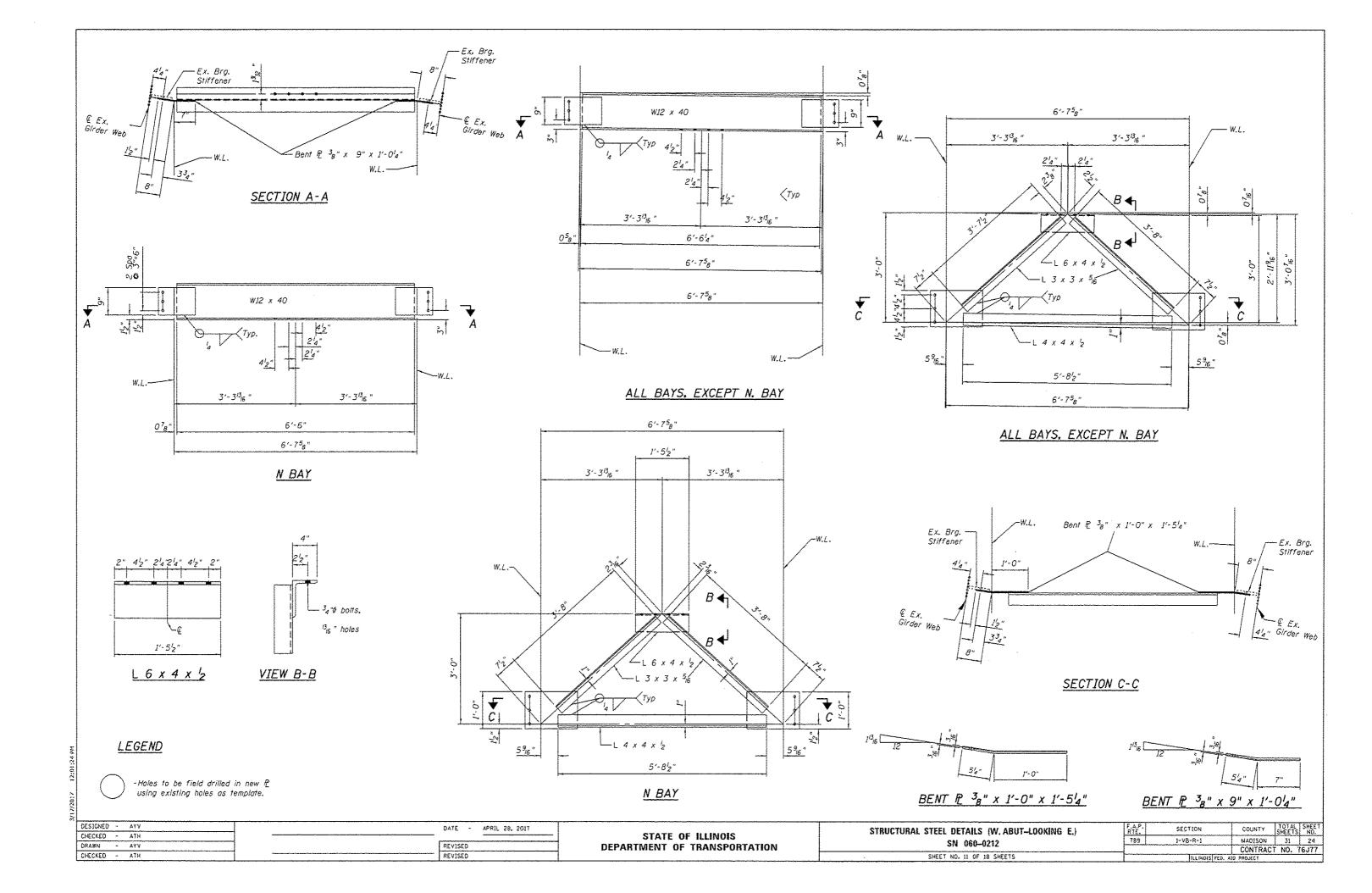


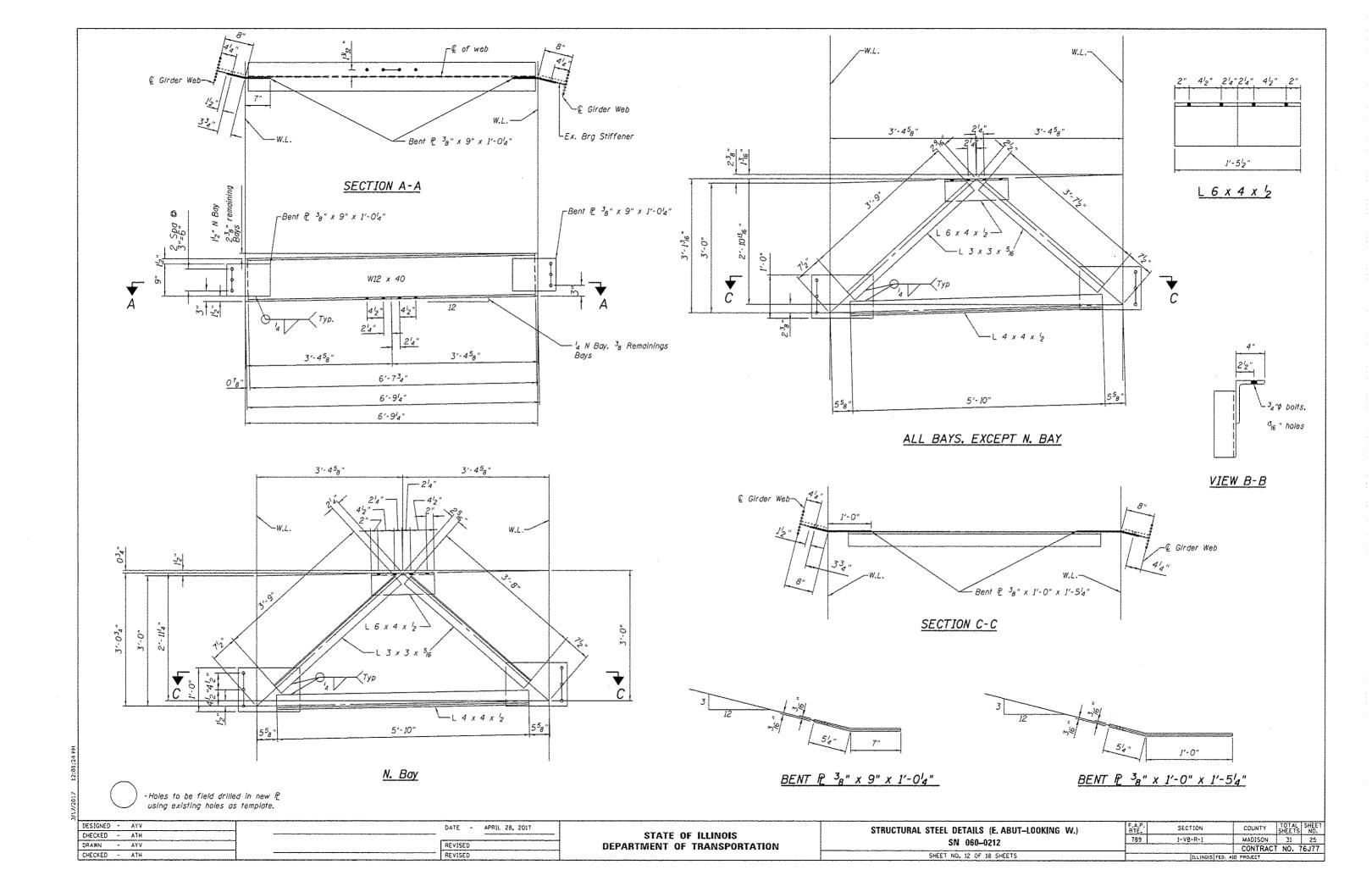
# BILL OF MATERIAL

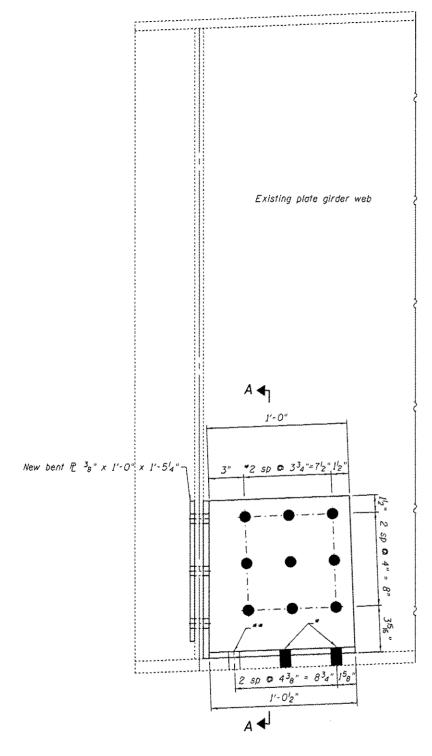
Item	Unit	Total
Structural Steel Removal	Pound	7730
F & E Structural Steel	Pound	7840

Note: Galvanize new diaphragms, angles & plates

DESIGNED - AYV	DATE - APRIL 28, 2017	CTATE OF HIMOIC	STRUCTURAL STEEL	F.A.P. SECTION	COUNTY TOTAL SHEET NO.
CHECKED - ATH DRAWN - AYV	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 060-0212	789 1-VB-R-1	MADISON 31 23
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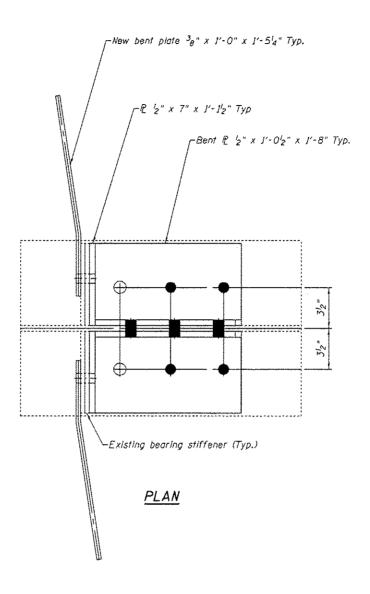


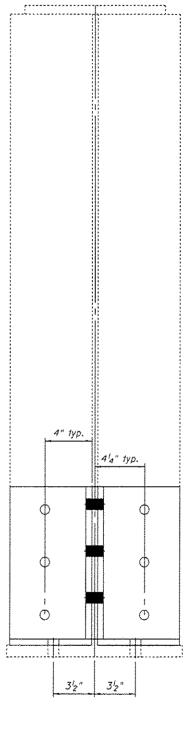




# END ELEVATION

- \* Use 78"\$ bolts & 1516 "\$ holes.
- \*\* Use 1"\$ bolts & 116"\$ holes.





# LEGEND

- -Holes to be field drilled in existing Le using new Le as template.
- -Holes to be field drilled in new It using existing holes as template.

SECTION A-A

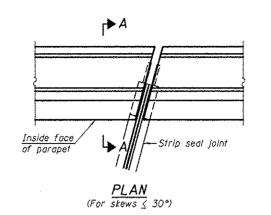
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CHECKED		ATH	<del></del>	REVISE					1

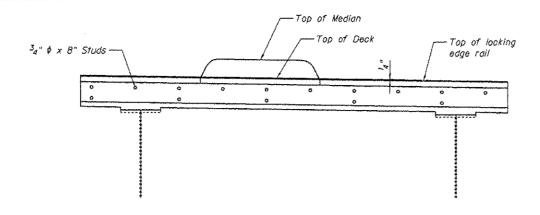
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION BEAM END REPAIR (W. ABUT - BM 8) SN 060-0212 SHEET NO. 13 OF 18 SHEETS

F.A.P. RTE. 789 COUNTY SHEETS NO.

MADISON 31 26

CONTRACT NO. 76J77 SECTION I-VB-R-1



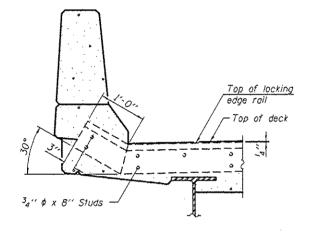


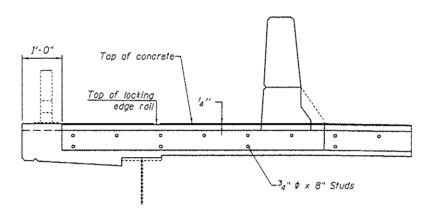
Top of locking 

TYPICAL END TREATMENT AT SOUTH SIDE

Top of concrete -

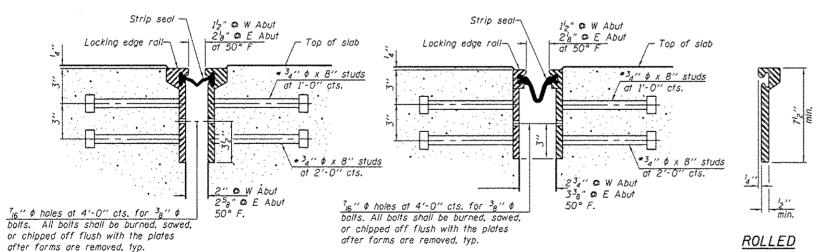
# TYPICAL TREATMENT AT MEDIAN

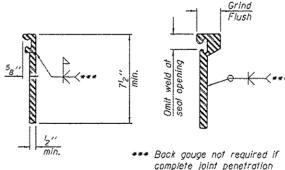




# TYPICAL END TREATMENT AT N. PARAPET & WALKWAY SECTION







complete joint penetration is verified by mock-up.

# SECTION THRU ROLLED RAIL JOINT

# SECTION THRU WELDED RAIL JOINT

\* Granular or solid flux filled headed studs conforming to Article J006.32 of the Std. Specs., automatically end welded.

### EXTRUDED RAIL WELDED RAIL

## LOCKING EDGE RAIL SPLICE The inside of the locking edge

rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

# LOCKING EDGE RAILS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 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 Rolls depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

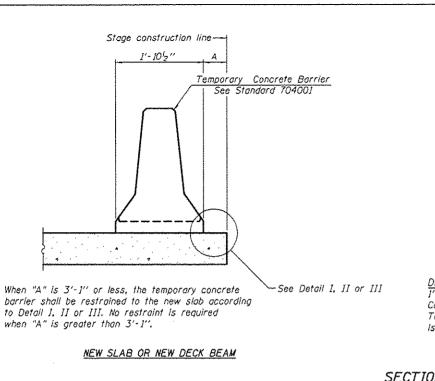
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rall segments shall be 316". sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

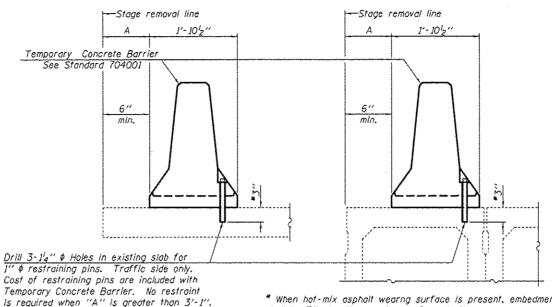
Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

# BILL OF MATERIAL

<u>Item</u>	Unit	Total
Preformed Joint Strip Seal	Foot	138

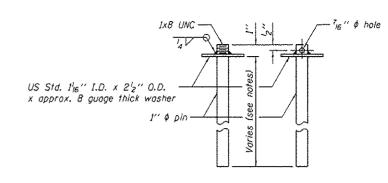
COUNTY TOTAL SHEETS NO.
MADISON 31 27 DESIGNED - AYV APRIL 28, 2017 DATE -PREFORMED JOINT STRIP SEAL SECTION CHECKED - ATH STATE OF ILLINOIS 789 1-V8-R-J SN 060-0212 DRAWN - AYV CHECKED - ATH REVISED DEPARTMENT OF TRANSPORTATION CONTRACT NO. 76J77 SHEET NO. 14 OF 18 SHEETS BEVISED





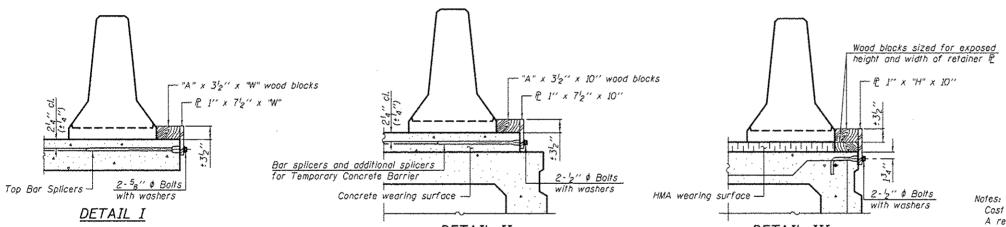
\* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

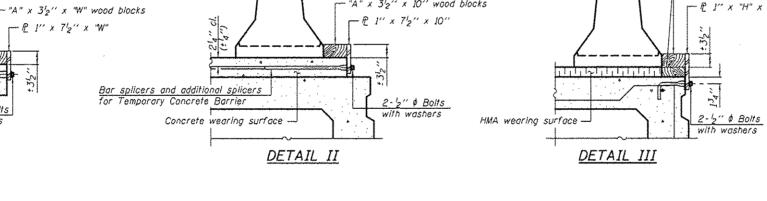
EXISTING DECK BEAM



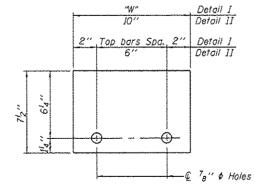
RESTRAINING PIN

# SECTIONS THRU SLAB OR DECK BEAM



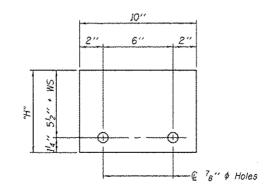


EXISTING SLAB



# STEEL RETAINER P 1" x 75" x "W"

(Detail I and II)



# STEEL RETAINER P 1" x "H" x 10"

(Detail III)

# BAR SPLICER FOR #4 BAR - DETAIL III

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate & 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  $I_2^{\prime\prime}$ , 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.

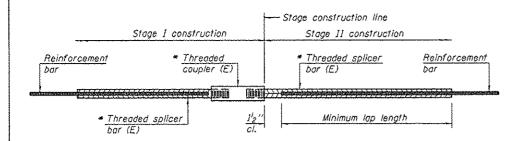
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DESIGNED - AYV DATE -APRIL 28, 2017 CHECKED - ATH DRAWN - AYV REVISED CHECKED - ATH REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION 789 SN 060-0212 SHEET NO. 15 OF 18 SHEETS

COUNTY TOTAL SHEE SHEETS NO. SECTION MADISON 31 28
CONTRACT NO. 76J77 1-VB-R-1 ILLINOIS FED. AID PROJECT

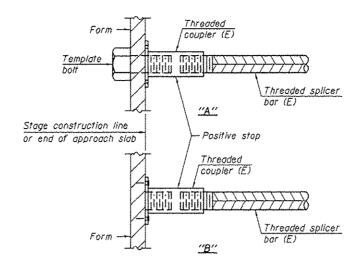


# STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min, lap length +  $1\frac{1}{2}$ " + thread length

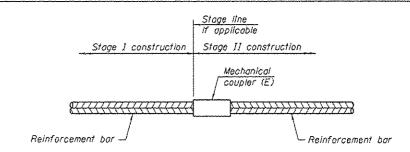
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum Iap length
W. Abut. Hatch	#6	8	4'-0"
W. Abut. Deck	#5	16	3'-6"
E. Abut. Deck	#5	<i>1</i> 6	3′-6″
E. Abut. Hatch	#6	8	4'-0"



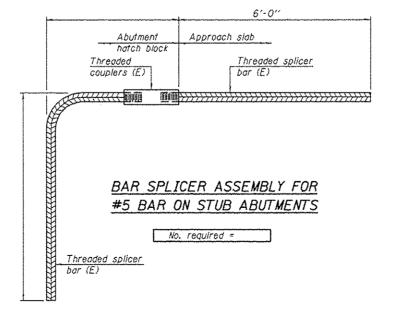
# INSTALLATION AND SETTING METHODS

"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 regulred
-, -		



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

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

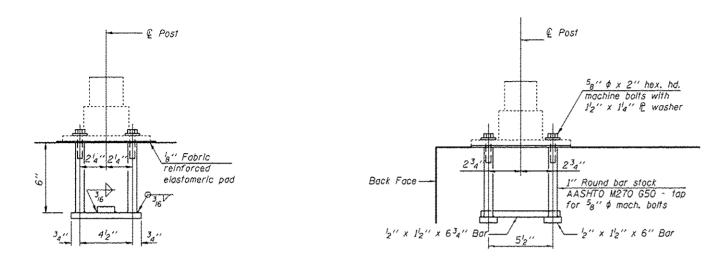
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6-8-15 DESIGNED - AYV DATE -AFRIL 28, 2017 CHECKED - ATH REV]SED DRAWN - AYV CHECKED - ATH REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 060-0212 SHEET NO. 16 OF 18 SHEETS

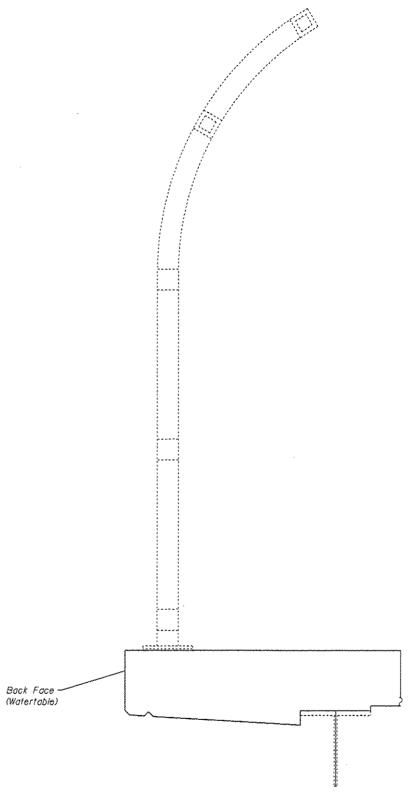
F.A.P. RTE. 789 COUNTY TOTAL SHEET NO.

MADISON 31 29 SECTION 1-VB-R-1 CONTRACT NO. 76J77



# ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting  $\mathbf{5}_8$ "  $\phi$  anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications. Cost of providing anchorages is included with Concrete Superstructure.



SECTION THRU DECK

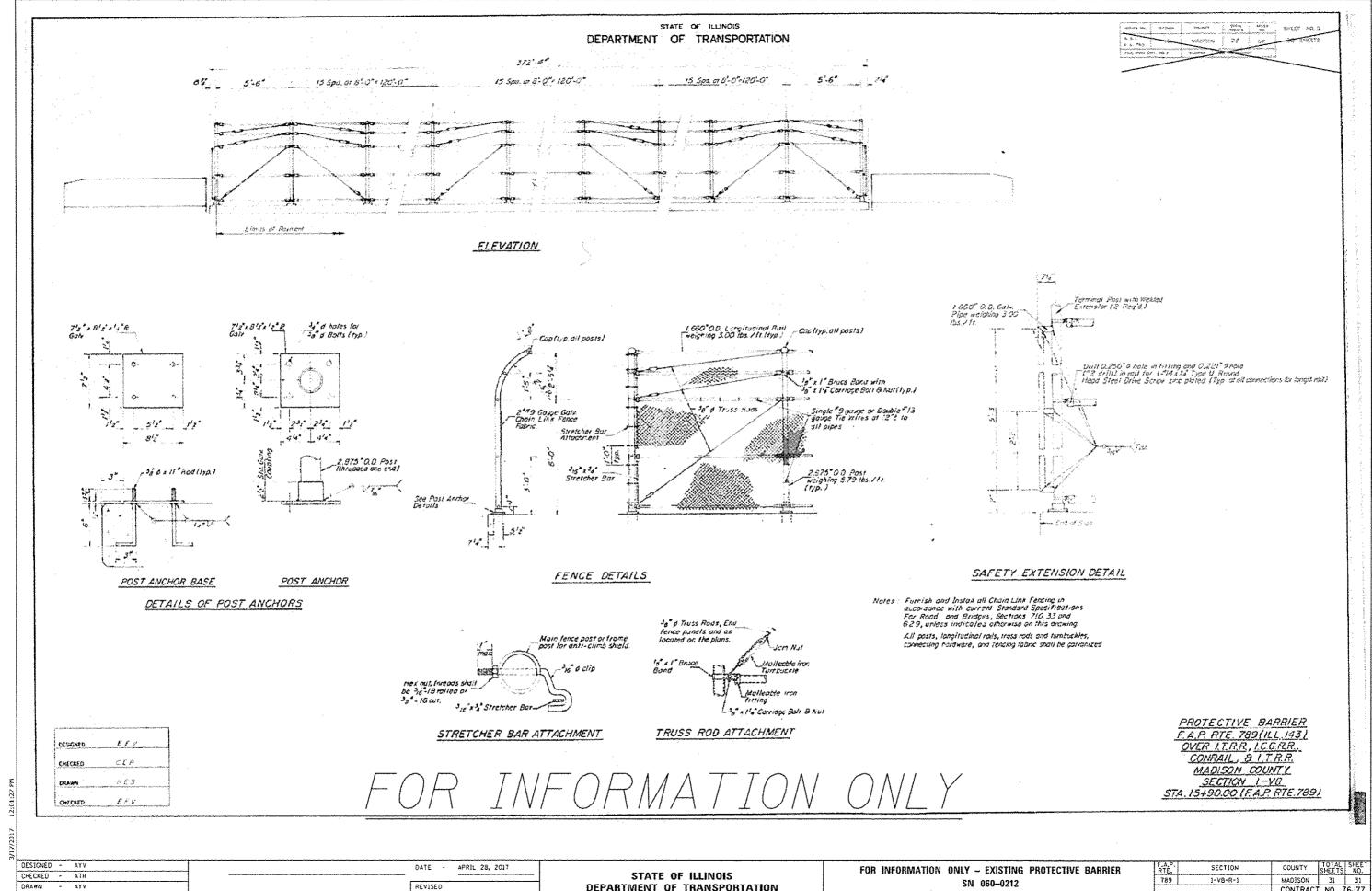
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FENCE ANCHORAGE DETAILS | F.A.P. | RTE. | 789 |

 - AYV
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 DEPARTMENT OF TRANSPORTATION
 SN 660-0212

 - ATH
 REVISED
 SHEET NO. 17 OF 18 SHEETS
 [ILLINOIS] FED. AID PI



REVISED CHECKED - ATH REVISED

DEPARTMENT OF TRANSPORTATION

SHEET NO. 18 OF 18 SHEETS

CONTRACT NO. 76J77 ILLINOIS FED. AID PROJECT