

1-18-13 LETTING ITEM 054

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

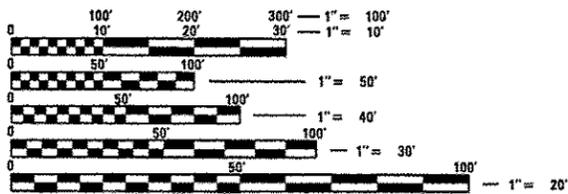
**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 789 (IL 143)  
SECTION 125-1HB-1  
BRIDGE REHABILITATION  
MADISON COUNTY

C-98-047-12

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-1	MADISON	29	1
ILLINOIS			CONTRACT NO. 76F54	

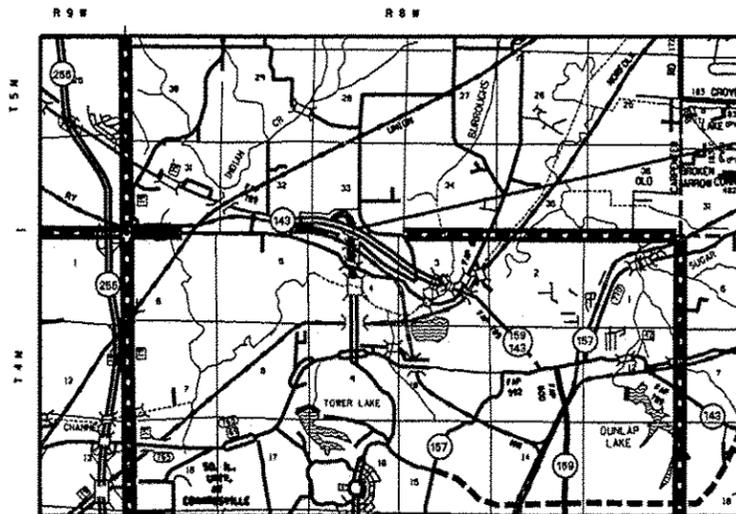
FOR INDEX OF SHEETS, SEE SHEET NO. 2



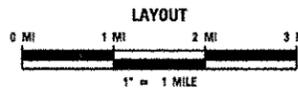
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DESIGN DESIGNATION  
N/A



PROJECT LOCATION  
SN 060-0191 & 060-0192  
STA. 54 + 60.95  
LAT: 38.8333  
LONG: -89.9932



PROJECT ENGINEER: PATTI LeBEAU (618)346-3179  
PROJECT MANAGER: REBECCA THARP (618)346-3323

CONTRACT NO. 76F54

ADT  
2011 = 9150 (ACTUAL)  
2012 = 9300 (ESTIMATED)  
2032 = 11,300 (ESTIMATED)  
SU = 2.2% MU = 1.0%

GROSS LENGTH = 180 FT. = 0.0341 MILE  
NET LENGTH = 180 FT. = 0.0341 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Nov 2 20 12  
*Osman*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 9 ENGINEER

Dec 7 20 12  
*John D. Baranelli, PE*  
acting ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 20 12  
*William B. Frey*  
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

GENERAL NOTES

1 ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES 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:

- AT&T ILLINOIS
- BUCKEYE PARTNERS L.P.--WOOD RIVER PIPELINE
- CHARTER COMMUNICATIONS, INC.
- NORTHEAST CENTRAL COUNTY PUBLIC WATER DISTRICT
- SOUTHWESTERN ELECTRIC COOPERATIVE, INC.

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

- 2 THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING AND TOPOGRAPHY SHOWN IN THE PLANS WAS CREATED USING MICROFILM AND FIELD MEASUREMENTS. BOTH SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 3 A QUANTITY OF 1537.5 FOOT OF "TEMPORARY PAVEMENT MARKING - LINE 6" HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER.
- 4 THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- 5 ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES UNLESS OTHERWISE NOTED IN THE PLANS.
- 6 ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 7 THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS CONTRACT.

MIXTURE USE	WIDENING	SURFACE
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPEC.	SEE SPEC.
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION		
(GRADATION MIXTURE)	IL 19.0	IL 9.5
FRICTION AGG	MIXTURE "B"	MIXTURE "C"

\*\*TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 lb/sq yd/in (59.8kg/sq m/25mm THICKNESS)

8 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.

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, INDEX OF SHEETS, STANDARDS AND COMMITMENTS
- 3-6 SUMMARY OF QUANTITIES
- 7 SCHEDULES
- 8-9 TYPICAL SECTIONS
- 10 PRE-STAGE 1 WIDENING
- 11 PRE-STAGE 2 WIDENING
- 12 TRAFFIC CONTROL DETAILS
- 13 DETAILS
- 14-29 STRUCTURE PLANS

COMMITMENTS

NONE

STANDARDS

- 000001-06
- 001001-02
- 001006
- 635006-03
- 635011-02
- 701101-03
- 701411-08
- 701421-05
- 701422-05
- 701423-06
- 701426-05
- 701456-02
- 701901-03
- 704001-07
- 780001-03
- 781001-03

FILE NAME : c:\p\work\p\dot\challandesko\d0292402	USER NAME : challandesko	DESIGNED - DRAWN -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, INDEX OF SHEETS, STANDARDS AND COMMITMENTS</b>	F.A.P. RTE. 789	SECTION 125-IHB-1	COUNTY MADISON	TOTAL SHEETS 29	SHEET NO. 2	
PLOT SCALE : 1/8" = 100.0000'	CHECKED -	REVISED -	SCALE: NONE			SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 76F54			
PLOT DATE : 11/2/2012	DATE -	REVISED -									

# SUMMARY OF QUANTITIES

100% STATE

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0004	0014	0014
35501319	HOT-MIX ASPHALT BASE COURSE, 8 3/4"	SQ YD	212	212		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.5	0.5		
40600300	AGGREGATE (PRIME COAT)	TON	3	3		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	747	747		
40600990	TEMPORARY RAMP	SQ YD	332	332		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	91	91		
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	369	204	85	80
44004250	PAVED SHOULDER REMOVAL	SQ YD	212	212		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	21	21		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	72	72		
50102400	CONCRETE REMOVAL	CU YD	62.3	33.9	28.4	
50157300	PROTECTIVE SHIELD	SQ YD	785	411	374	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	67.9	39.1	28.8	

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FILE NAME =	USER NAME = ehollandeske	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pwr\work\pvidot\ehollandeske\0292402	0876754.sht-500.dgn	DRAWN -	REVISED -			789	125-IHB-I	MADISON	29	3	
	PLOT SCALE = 1/80.0000 1" = 100'	CHECKED -	REVISED -			CONTRACT NO. 76F54					
	PLOT DATE = 11/2/2012	DATE -	REVISED -			SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT					

# SUMMARY OF QUANTITIES

100% STATE

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0004	0014	0014
50300300	PROTECTIVE COAT	SQ YD	394		202	192
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4500		2430	2070
50800515	BAR SPLICERS	EACH	88		44	44
52000110	PREFORMED JOINT STRIP SEAL	FOOT	180		94	86
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	1525		784	741
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	149		149	
67100100	MOBILIZATION	L SUM	1	0.34	0.33	0.33
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	0.34	0.33	0.33
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1		
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	2		1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1		1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1080	1080		

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	PLOT DATE = 11/2/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE	SHEET 2 OF 3 SHEETS	STA.	TO STA.	F.A.P. RTE. 789	SECTION 128-IHB-I	COUNTY MADISON	TOTAL SHEETS 29	SHEET NO. 4	
CONTRACT NO. 76F54								ILLINOIS FED. AID PROJECT	

# SUMMARY OF QUANTITIES

100% STATE

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0004	0014	0014
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8852	8852		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1537.5	1537.5		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3071	3071		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	775	775		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	762.5	762.5		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1	
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8852	8852		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	12	6	6	
* 78200430	GUARDRAIL MARKERS, TYPE C	EACH	12	6	6	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	2951	2951		

\* SPECIALTY ITEM

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	PLOT DATE = 11/2/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE	SHEET 3	OF 3	SHEETS	STA.	TO STA.	F.A.P. RTE. 789	SECTION 125-1HB-1	COUNTY MADISON	TOTAL SHEETS 29	SHEET NO. 5	CONTRACT NO. 76F54
[ILLINOIS] FED. AID PROJECT											



PAVING SCHEDULE								
STATION			BITUMINOUS	AGGREGATE	HOT-MIX ASPHALT	HOT-MIX	AGGREGATE	
			MATERIALS	MATERIALS	SURFACE COURSE,	ASPHALT	WEDGE SHOULDER,	
			(PRIME COAT)	(PRIME COAT)	MIX "C", N70	SHOULDERS	TYPE B	
			TON	TON	TON	TON	TON	
EB	52+84	TO	53+62	0.11	0.50	47.9	16.99	5.16
EB	53+62	TO	53+67				1.09	
EB	55+44	TO	55+49				16.33	
EB	55+49	TO	56+35	0.12	0.55	50.9	1.09	5.66
WB	52+90	TO	53+65	0.14	0.63	58.4	1.09	4.98
WB	53+65	TO	53+70				18.73	
WB	55+40	TO	55+45				1.04	
WB	55+45	TO	56+20	0.11	0.50	46.7	15.56	4.98
TOTAL				0.5	3.0	204	72	21

STAGING PAVING SCHEDULE					
STATION			HOT-MIX	PAVED	
			ASPHALTY BASE	SHOULDER	
			COURSE 8 3/4"	REMOVAL	
			SQ YD	SQ YD	
STAGE 1					
EB	53+00	TO	53+65	57.78	57.78
WB	55+39	TO	56+00	47.44	47.44
EB	55+44	TO	55+84	35.56	35.56
STAGE 2					
EB	53+00	TO	53+67	44.67	44.67
EB	55+45	TO	55+85	26.67	26.67
TOTAL				212	212

STAGING SCHEDULE					
STAGE	TEMPORARY	RELOCATE	IMPACT ATTENUATORS	IMPACT ATTENUATORS	TEMPORARY
	CONCRETE	CONCRETE	TEMPORARY	RELOCATE	PAVEMENT
	BARRIER	BARRIER	(NON-REDIRECTIVE),	(NON-REDIRECTIVE),	MARKING
	FOOT	FOOT	TEST LEVEL 3	TEST LEVEL 3	LINE - 6"
			EACH	EACH	FOOT
STAGE I	775		2		775
STAGE II		762.5		2	562.5
TOTAL	775	762.5	2	2	1337.5

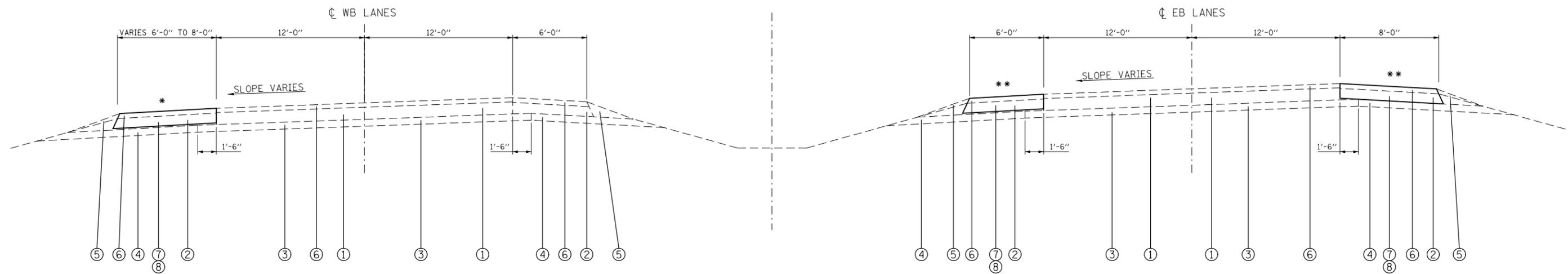
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT					
LOCATION		STATION TO STATION		SURFACE	
				SQ YD	
EAST BOUND WEST END	52+84.00	TO	53+25.00	173.1	
EAST BOUND EAST END	55+94.00	TO	56+35.00	173.1	
WEST BOUND WEST END	52+90.00	TO	53+30.00	222.2	
WEST BOUND EAST END	55+80.00	TO	56+20.00	177.8	
SUB-TOTAL -				746.2	
TOTAL -				747	

PAVEMENT MARKING SCHEDULE																
STATION			THERMOPLASTIC PAVEMENT MARKING			TEMPORARY PAVEMENT MARKING			WORK ZONE	RAISED	RAISED	SHORT	GUARDRAIL	GUARDRAIL		
			EDGE LINE	EDGE LINE	CENTERLINE	EDGE LINE	EDGE LINE	CENTERLINE	PAVEMENT	REFLECTIVE	REFLECTIVE	TERM	MARKERS	MARKERS		
			SOLID	SOLID	SKIP-DASH	SOLID	SOLID	SKIP-DASH	MARKING	PAVEMENT	PAVEMENT	PAVEMENT	TYPE A	TYPE C		
			4" WHITE	4" YELLOW	4" WHITE	4" WHITE	4" YELLOW	4" WHITE	REMOVAL	MARKER	MARKER	MARKING				
			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	EACH	FOOT	EACH	EACH		
EB																
STA	35+78	TO	STA	55+44	1966.0	1966.0	491.5	1966.00	1966.00	491.50	368.6	25	25	540	6	6
WB																
STA	53+70	TO	STA	73+38	1968.0	1968.0	492.0	1968.00	1968.00	492.00	369.0	25	25	540	6	6
SUB-TOTAL					3934.0	3934.0	983.5	3934.0	3934.0	983.5	737.6	50	50	1080	12	12
GRAND TOTAL					8,852			8,852			738	50	50	1080	12	12

NOTE: GUARDRAIL MARKERS TYPE A AND TYPE C ARE TO BE INSTALLED ON THE PARAPET WALLS OF THE STRUCTURES.

TEMPORARY RAMP SCHEDULE				
LOCATION	WIDTH	LENGTH	TEMPORARY	
			FOOT	RAMP
EAST BOUND STAGE 1 WEST END OF STRUCTURE				
STA	52+84	18.583	5	11
STA	53+62	18.583	8	17
STA	53+70	18.583	8	17
EAST BOUND STAGE 1 EAST END OF STRUCTURE				
STA	55+41	18.583	8	17
STA	55+49	18.583	8	17
STA	56+35	18.583	5	11
EAST BOUND STAGE 2 WEST END OF STRUCTURE				
STA	52+84	14.083	5	8
STA	53+62	14.083	8	13
STA	53+70	14.083	8	13
EAST BOUND STAGE 2 EAST END OF STRUCTURE				
STA	55+41	14.083	8	13
STA	55+49	14.083	8	13
STA	56+35	14.083	5	8
WEST BOUND STAGE 1 WEST END OF STRUCTURE				
STA	52+90	24.771	5	14
STA	53+65	24.771	8	23
STA	53+73	24.771	8	23
WEST BOUND STAGE 1 EAST END OF STRUCTURE				
STA	55+37	16.771	8	15
STA	55+45	16.771	8	15
STA	55+20	16.771	5	10
WEST BOUND STAGE 2 WEST END OF STRUCTURE				
STA	52+90	14.792	5	9
STA	53+65	14.792	8	14
STA	53+73	14.792	8	14
WEST BOUND STAGE 2 EAST END OF STRUCTURE				
STA	55+37	14.792	8	14
STA	55+45	14.792	8	14
STA	55+20	14.792	5	9
TOTAL				332

☉ ROADWAY



STATION ±30+96 TO STATION ±81+37

\*WB  
RT - STA. ±55+39 TO STA. ±55+98

\*\*EB  
LT - STA. ±53+00 TO STA. ±53+65  
STA. ±55+45 TO STA. ±55+84  
RT - STA. ±53+00 TO STA. ±53+67  
STA. ±55+45 TO STA. ±55+85

STRUCTURE OMISSIONS:  
WB: STA. 53+67.18 TO STA. 55+46.59  
EB: STA. 53+67.98 TO STA. 55+42.89

LEGEND (FOR THIS SHEET ONLY)

- 1 EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT - 7"
- 2 EXISTING STABILIZED SHOULDER
- 3 EXISTING STABILIZED SUB-BASE - 4"
- 4 EXISTING SUB-BASE, TYPE "C" - 4"
- 5 EXISTING AGGREGATE SHOULDER, TYPE "A"
- 6 EXISTING HOT-MIX OVERLAY 2 1/2" AND VARIES
- 7 PROPOSED PAVED SHOULDER REMOVAL
- 8 PROPOSED HOT-MIX ASPHALT BASE COURSE, 8 1/2"

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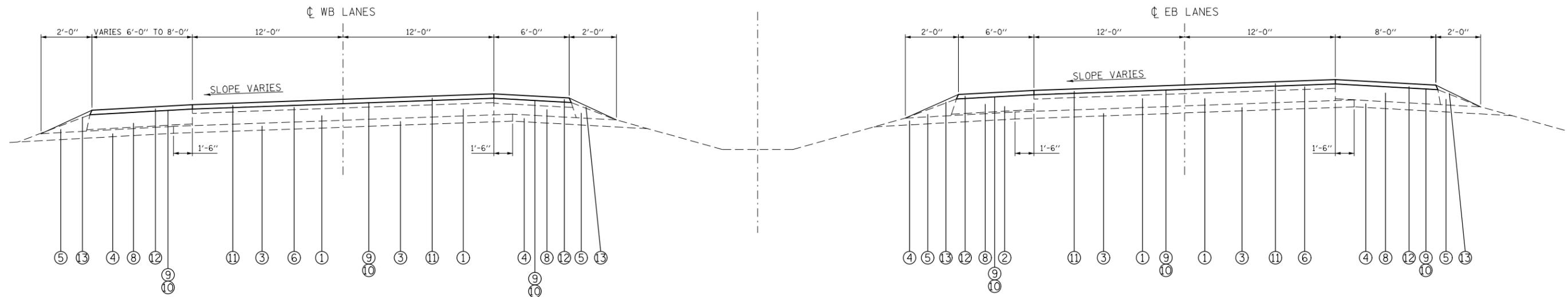
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
FOR STAGE CONSTRUCTION

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	MADISON	29	8
CONTRACT NO. 76F54			ILLINOIS FED. AID PROJECT	

☉ ROADWAY



STATION ±30+96 TO STATION ±81+37

•WB  
RT - STA. ±55+39 TO STA. ±55+98

••EB  
LT - STA. ±53+00 TO STA. ±53+65  
STA. ±55+45 TO STA. ±55+84  
RT - STA. ±53+00 TO STA. ±53+67  
STA. ±55+45 TO STA. ±55+85

STRUCTURE OMISSIONS:  
WB: STA. 53+67.18 TO STA. 55+46.59  
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LEGEND (FOR THIS SHEET ONLY)

- 1 EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT - 7"
- 2 EXISTING STABILIZED SHOULDER
- 3 EXISTING STABILIZED SUB-BASE - 4"
- 4 EXISTING SUB-BASE, TYPE "C" - 4"
- 5 EXISTING AGGREGATE SHOULDER, TYPE "A"
- 6 EXISTING HOT-MIX OVERLAY 2½" AND VARIES
- 7 PROPOSED PAVED SHOULDER REMOVAL
- 8 EXISTING HOT-MIX ASPHALT BASE COURSE, 8½"
- 9 PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- 10 PROPOSED AGGREGATE MATERIALS (PRIME COAT)
- 11 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 - 2½"
- 12 PROPOSED HOT-MIX ASPHALT SHOULDERS, 2½"
- 13 PROPOSED AGGREGATE WEDGE, TYPE B

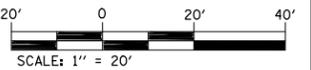
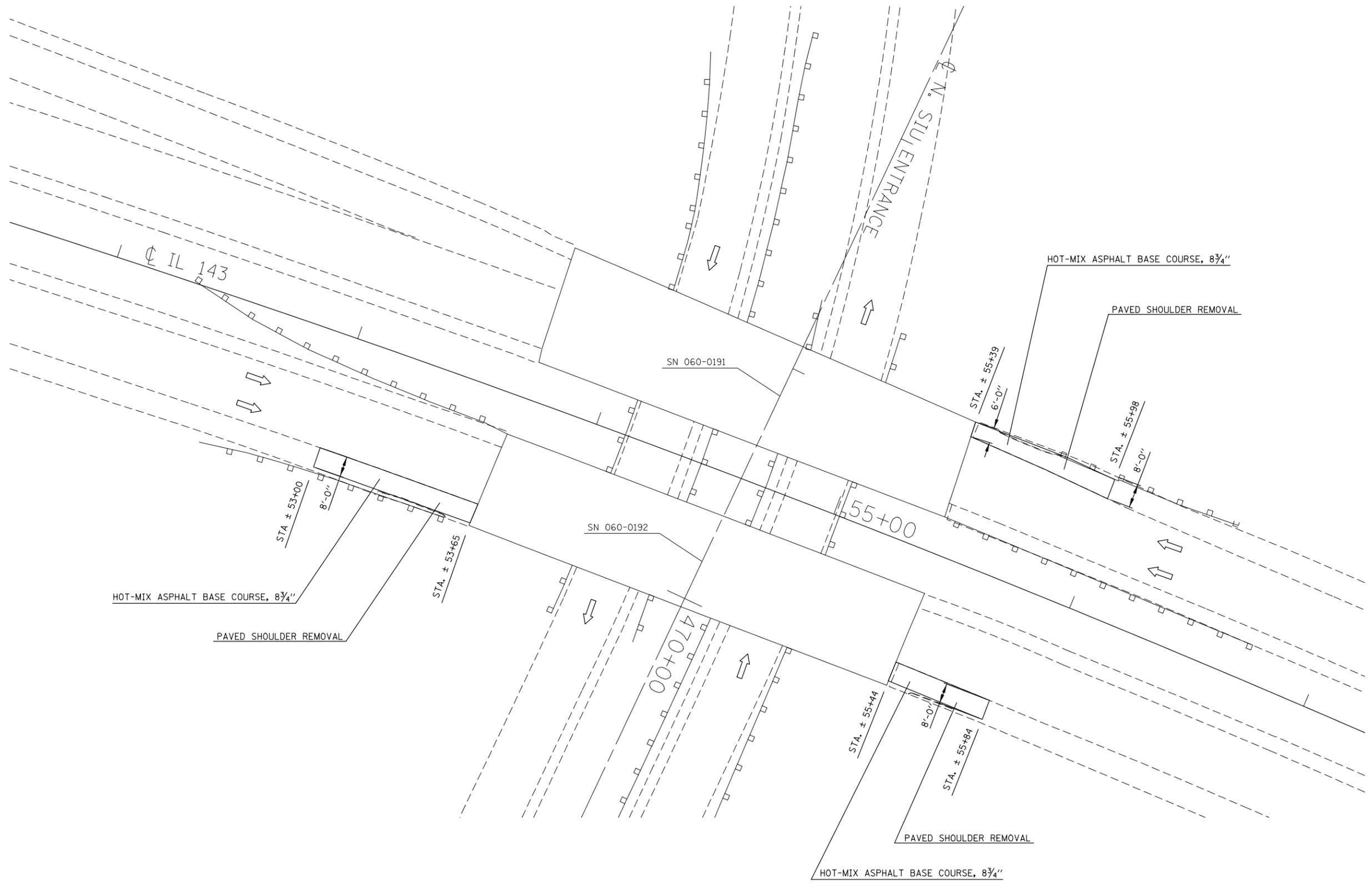
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	PLOT DATE = 11/2/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
FOR OVERLAY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	MADISON	29	9
CONTRACT NO. 76F54			ILLINOIS FED. AID PROJECT	



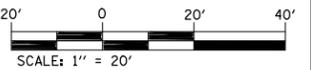
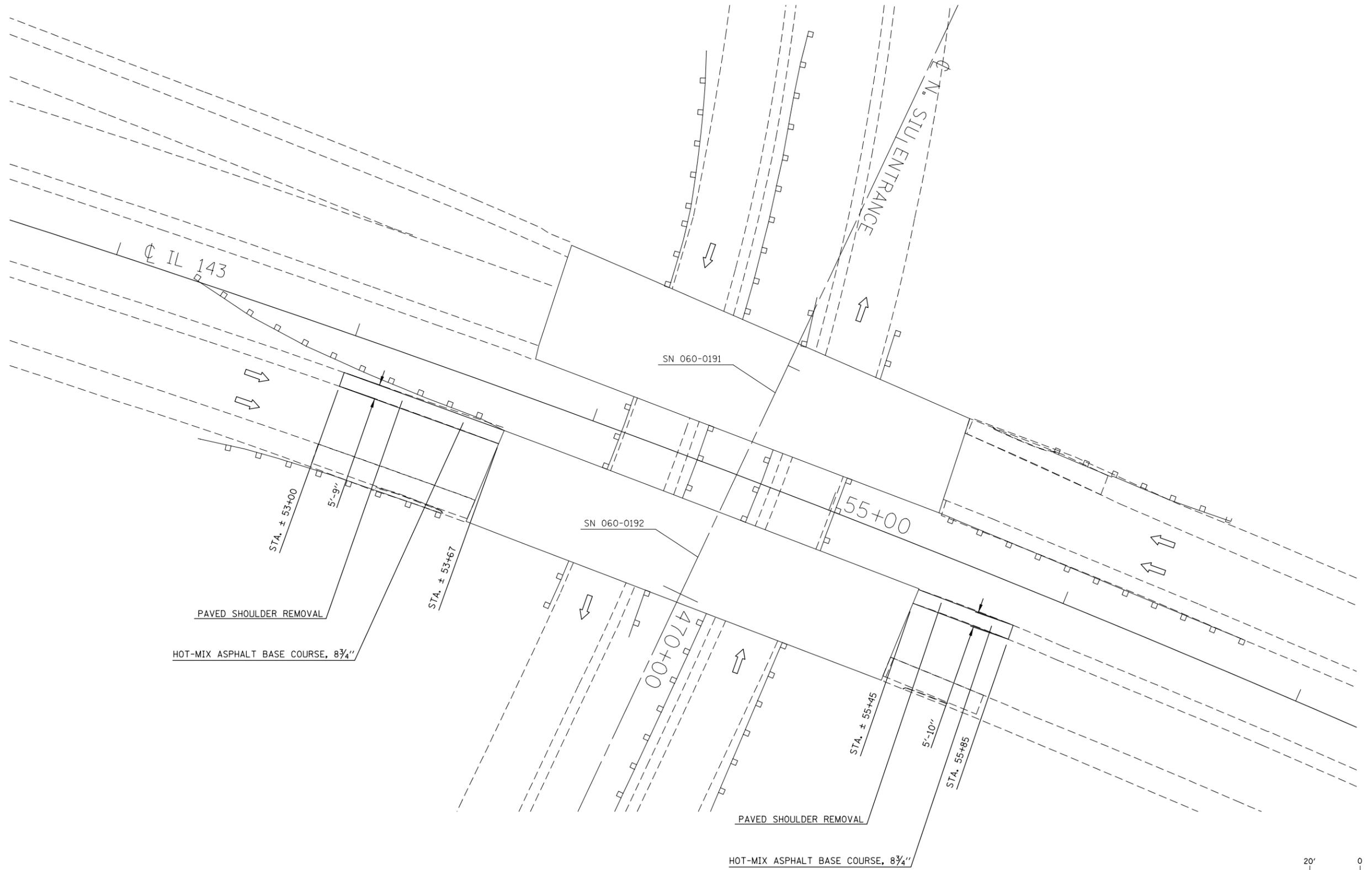
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRE-STAGE 1 WIDENING**

SCALE: 1"=20'      SHEET 1 OF 1 SHEETS      STA.      TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	MADISON	29	10
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				



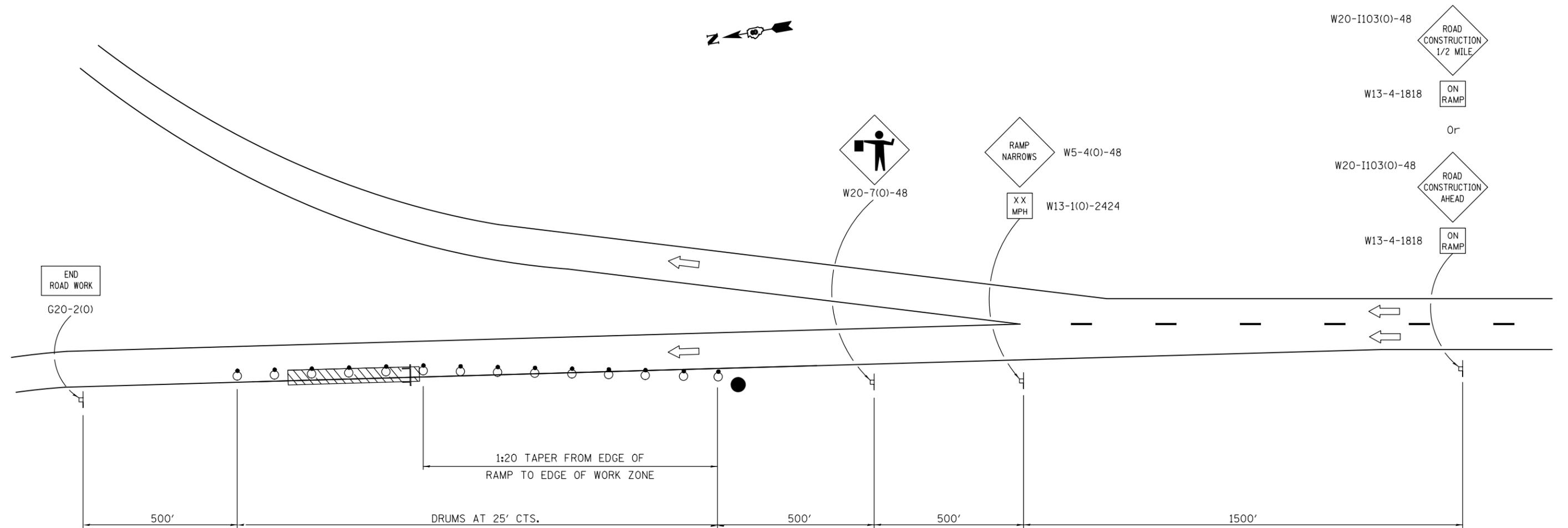
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	PLOT DATE = 11/2/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRE-STAGE 2 WIDENING**

SCALE: 1"=20'      SHEET 1 OF 1 SHEETS      STA.      TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	MADISON	29	11
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				



**PARTIAL EXIT RAMP CLOSURE**

**SYMBOLS**

- ⊥ SIGN
- ⊥ TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- ▨ WORK AREA
- FLAGGER WITH TRAFFIC CONTROL SIGN

NOT TO SCALE

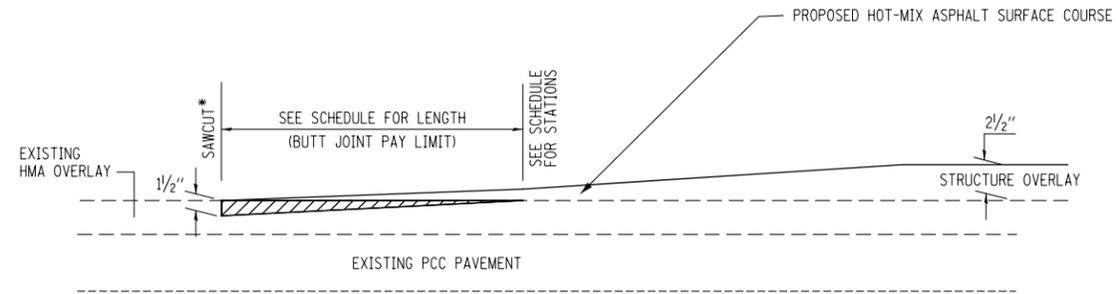
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/2/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

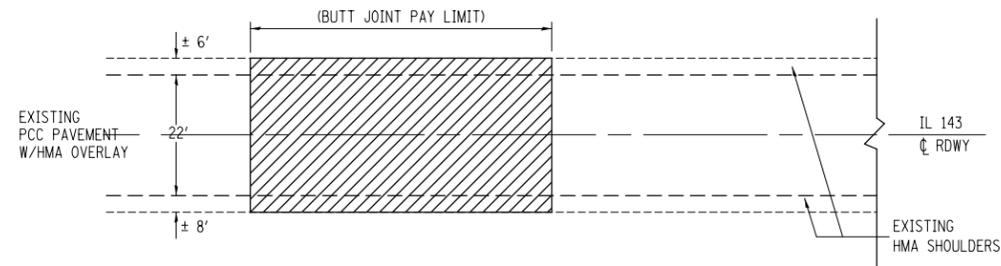
**TRAFFIC CONTROL DETAILS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	MADISON	29	12
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				



\*COST OF SAWCUT TO BE INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT ELEVATION VIEW



PLAN VIEW

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT  
SEE SCHEDULE FOR STATIONS

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

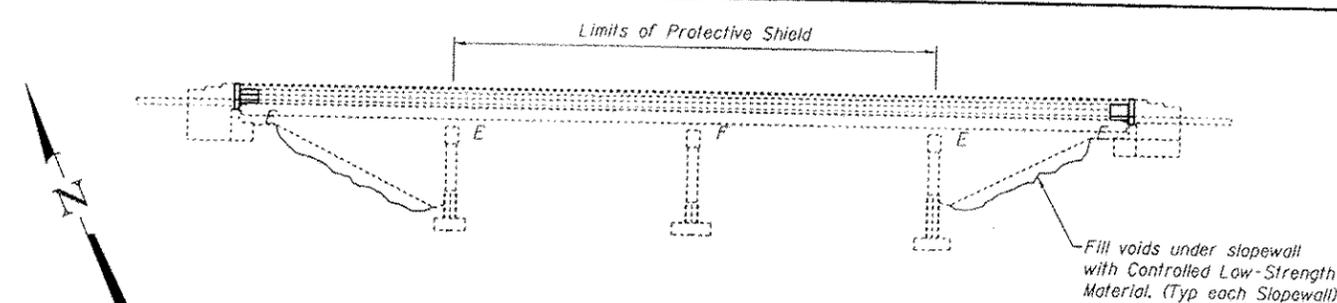
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/2/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS**

SCALE: NONE    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	MADISON	29	13
CONTRACT NO. 76F54			ILLINOIS FED. AID PROJECT	



**ELEVATION**

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.

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.

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

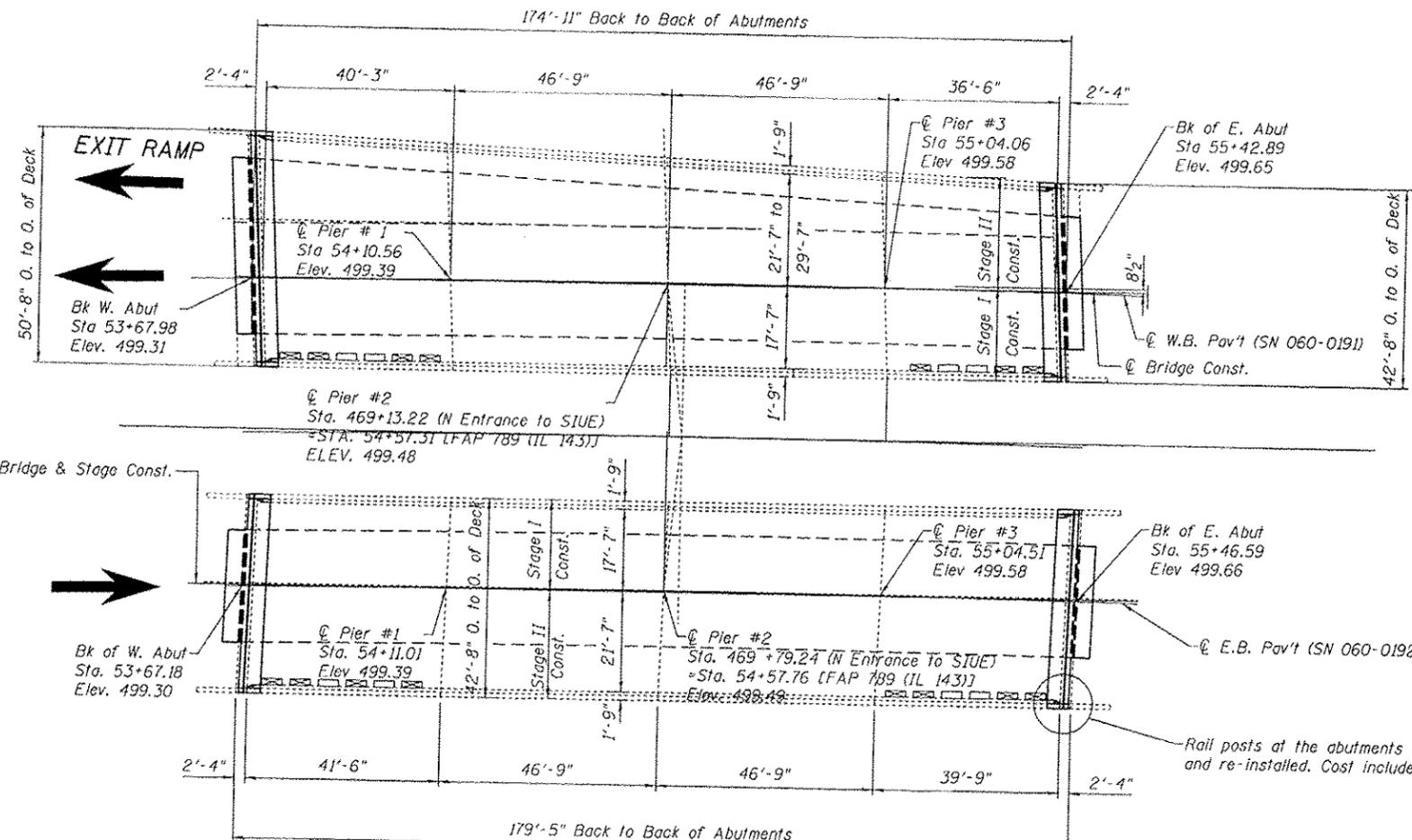
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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.

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

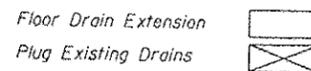
All structural steel shall conform to AASHTO Classification M 270 Grade 36, unless otherwise noted.

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

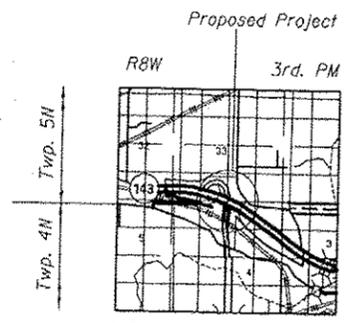
Existing reinforcement bars extending into removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



**PLAN**



Replace deck ends, hatchblocks, and install strip seals at each end.  
 Perform partial and full depth patching  
 HMA overlay with WMS  
 Floor Drain Extensions & Plug Existing Drains



**LOCATION SKETCH**

**INDEX OF SHEETS**

1. General Plan & Elevation
2. Deck Cross Section (W.B.)
3. Deck Cross Section (E.B.)
4. Joint Removal (W.B.)
5. Joint Removal (E.B.)
6. Joint Replacement (W.B.)
7. Joint Replacement (E.B.)
8. Joint Details
9. Deck Patching Survey (Sketch) (W.B.)
10. Deck Patching Survey (Data) (W.B.)
11. Deck Patching Survey (Sketch) (E.B.)
12. Deck Patching Survey (Data) (E.B.)
13. Drain Details & Waterproofing Staging
14. Strip Seal Details
15. Temporary Concrete Barrier
16. Bar Splicers

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	62.3
Concrete Superstructure	Cu. Yd.	67.9
Protective Shield	Sq. Yd.	785
Bar Splicers	Each	88
Floor Drain Extension	Each	8
Plug Existing Deck Drains	Each	15
Preformed Joint Strip Seal	Foot	180
Waterproofing Membrane System	Sq. Yd.	1525
HMA Surface Course, Mix "C" N70	Ton	165
Deck Slab Repair (Partial)	Sq. Yd.	435
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	52
Reinforcement Bars, Epoxy Coated	Pound	4500
Controlled Low-Strength Material	Cu. Yd.	149
Protective Coat	Sq. Yd.	394
Traffic Control and Protection, (Special)	L. Sum	1

**PROPOSED PROFILE GRADE F.A. RTE 50**



DESIGNED - AVV	EXAMINED - <i>Timothy A. Puzey</i>	DATE - 11/20/12
CHECKED - EOE	PASSED - <i>David Carl Puzey</i>	
DRAWN - AVV		
CHECKED - AVV		

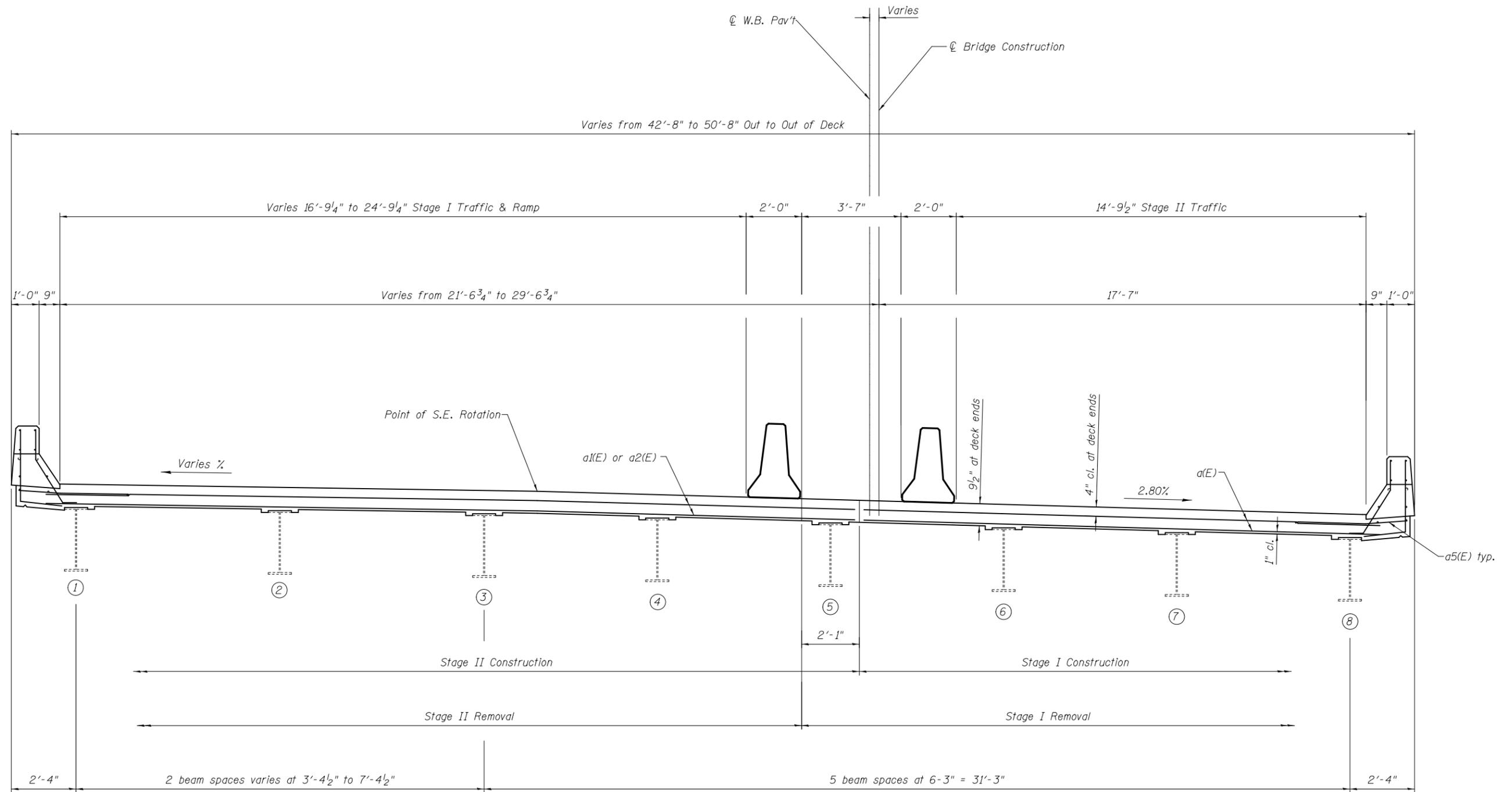
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
 IL 143 over SIU N. Access Road, SN 060-0191 & 0192

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-1	Madison	29	14

SHEET NO. 1 OF 16 SHEETS

CONTRACT NO. 76F54



**CROSS SECTION**

(Looking East)

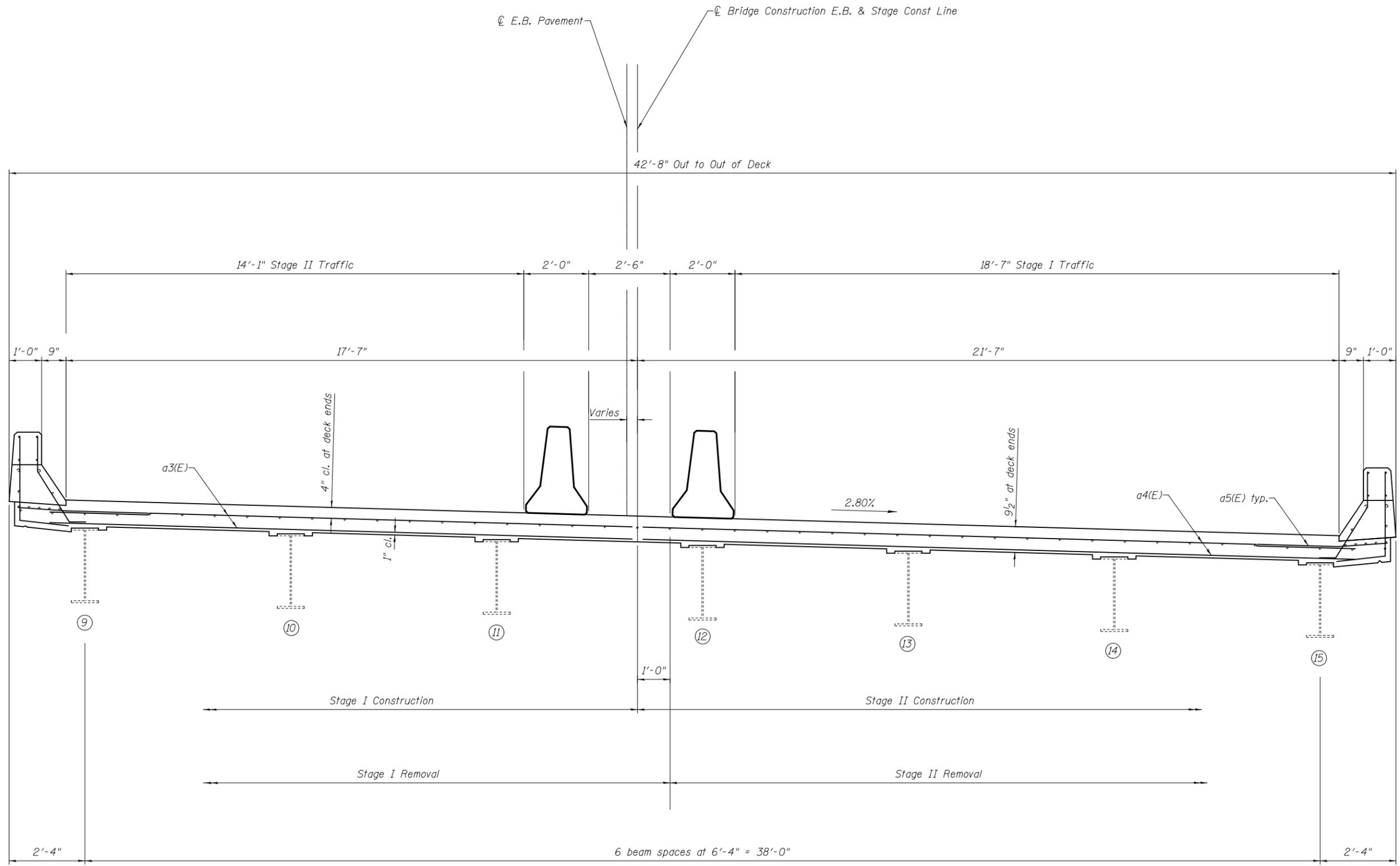
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CHECKED - _____	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED _____	REVISED _____
CHECKED - _____	ENGINEER OF BRIDGES AND STRUCTURES	REVISED _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION  
SN 060-0191 (WB)**

SHEET NO. 2 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	Madison		
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				



**CROSS SECTION**  
(Looking East)

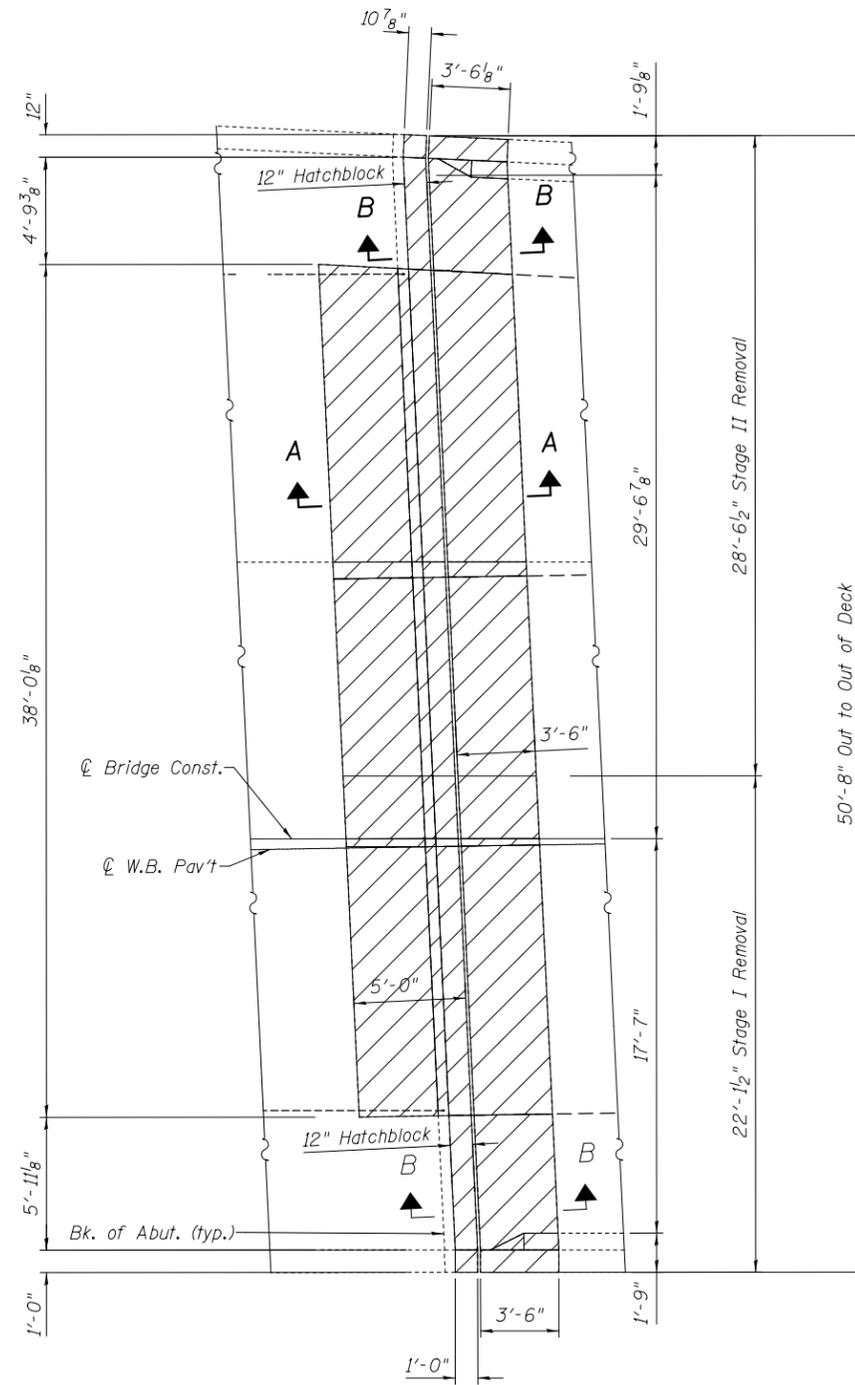
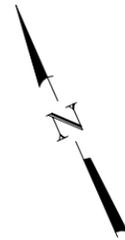
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CHECKED - _____	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED _____	REVISED _____
CHECKED - _____	ENGINEER OF BRIDGES AND STRUCTURES	REVISED _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION  
SN 060-0192 (EB)**

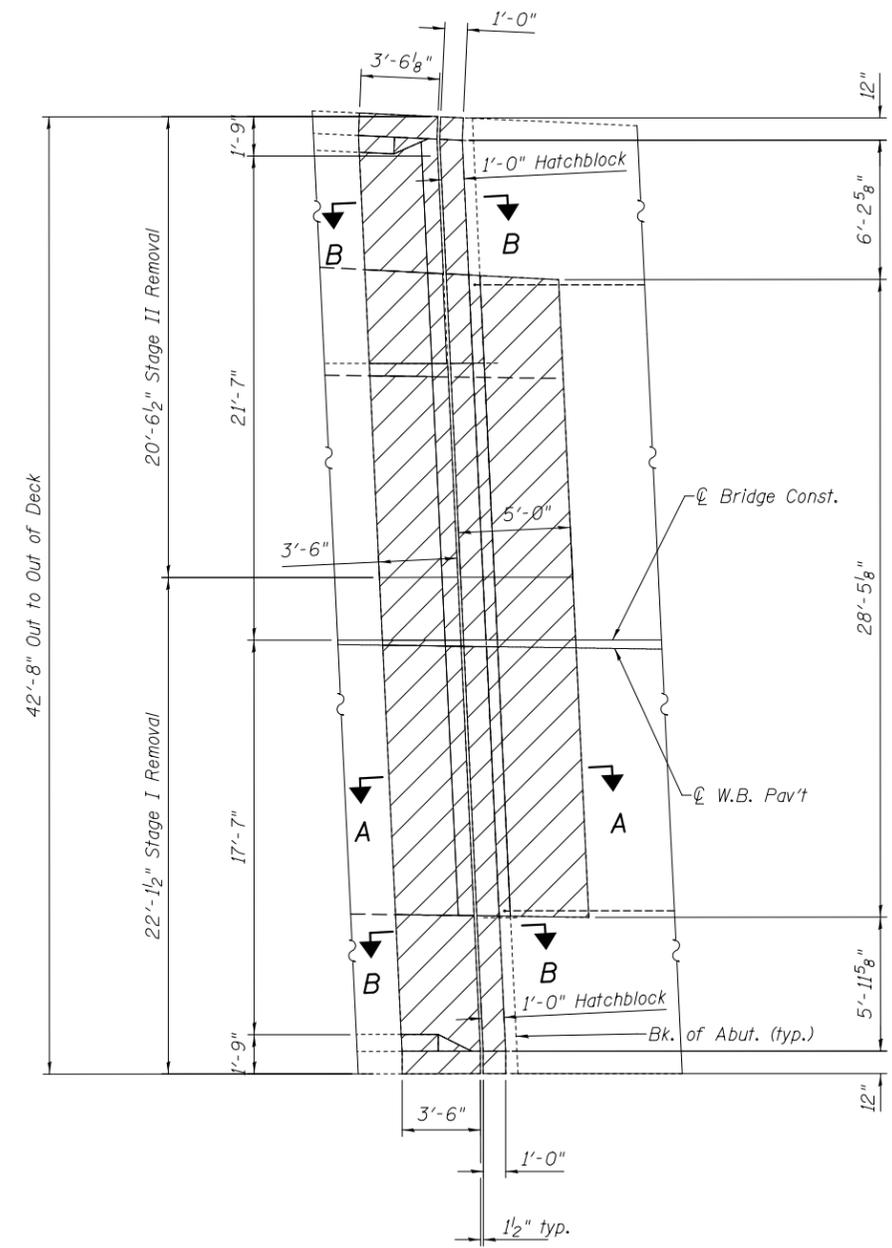
SHEET NO. 3 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-1	Madison		
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				



**CONCRETE REMOVAL**

(W. Abutment)



**CONCRETE REMOVAL**

(E. Abutment)

**Note:**

See sheet 8 of 16 for Sections A-A & B-B.

During removal & replacement of portions of the wingwalls, the contractor shall remove & replace the name plate. Cost included with Concrete Removal.

DESIGNED - AYV	EXAMINED _____	DATE - _____
CHECKED - _____	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED _____	REVISED _____
CHECKED - _____	ENGINEER OF BRIDGES AND STRUCTURES	REVISED _____

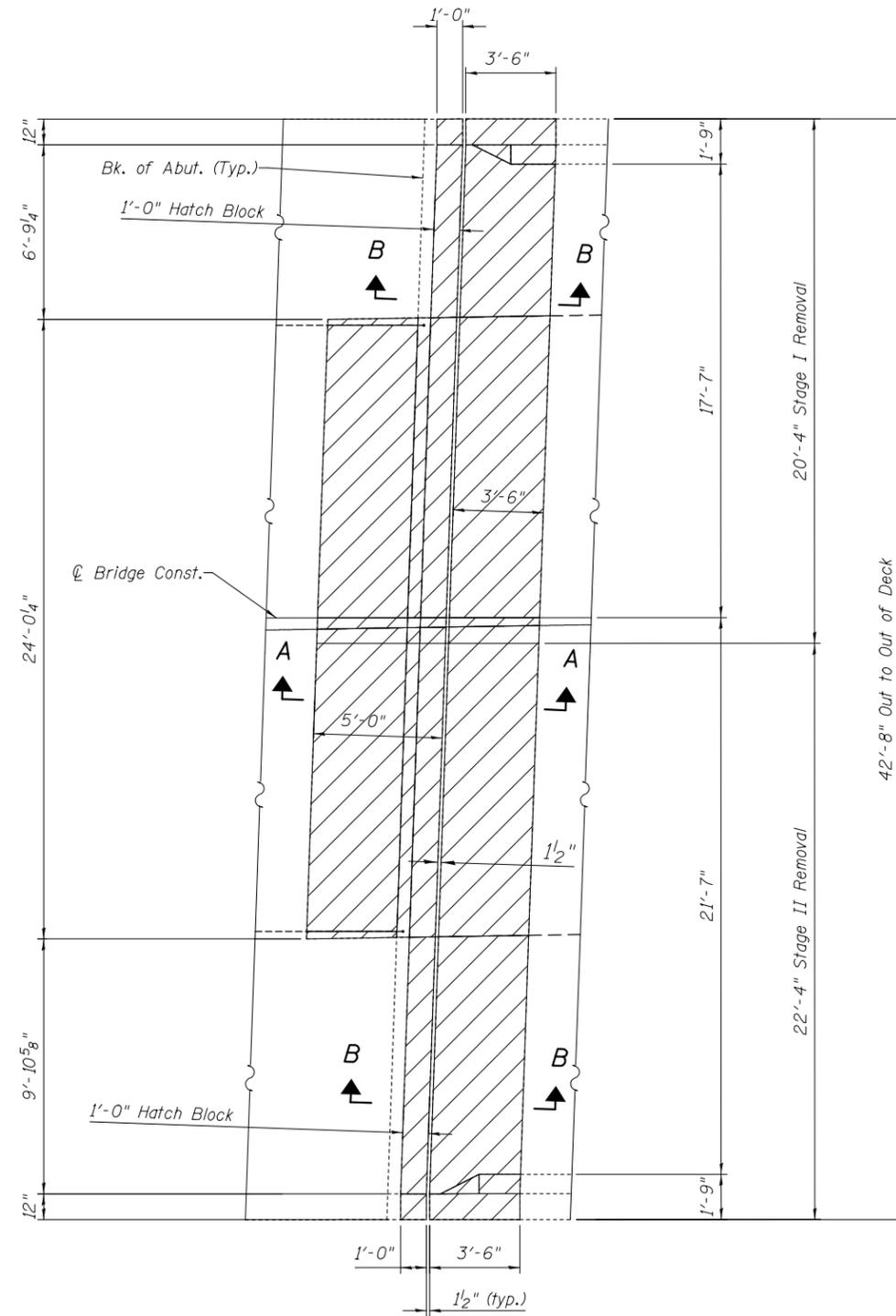
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE REMOVAL (WB)  
SN 060-0191**

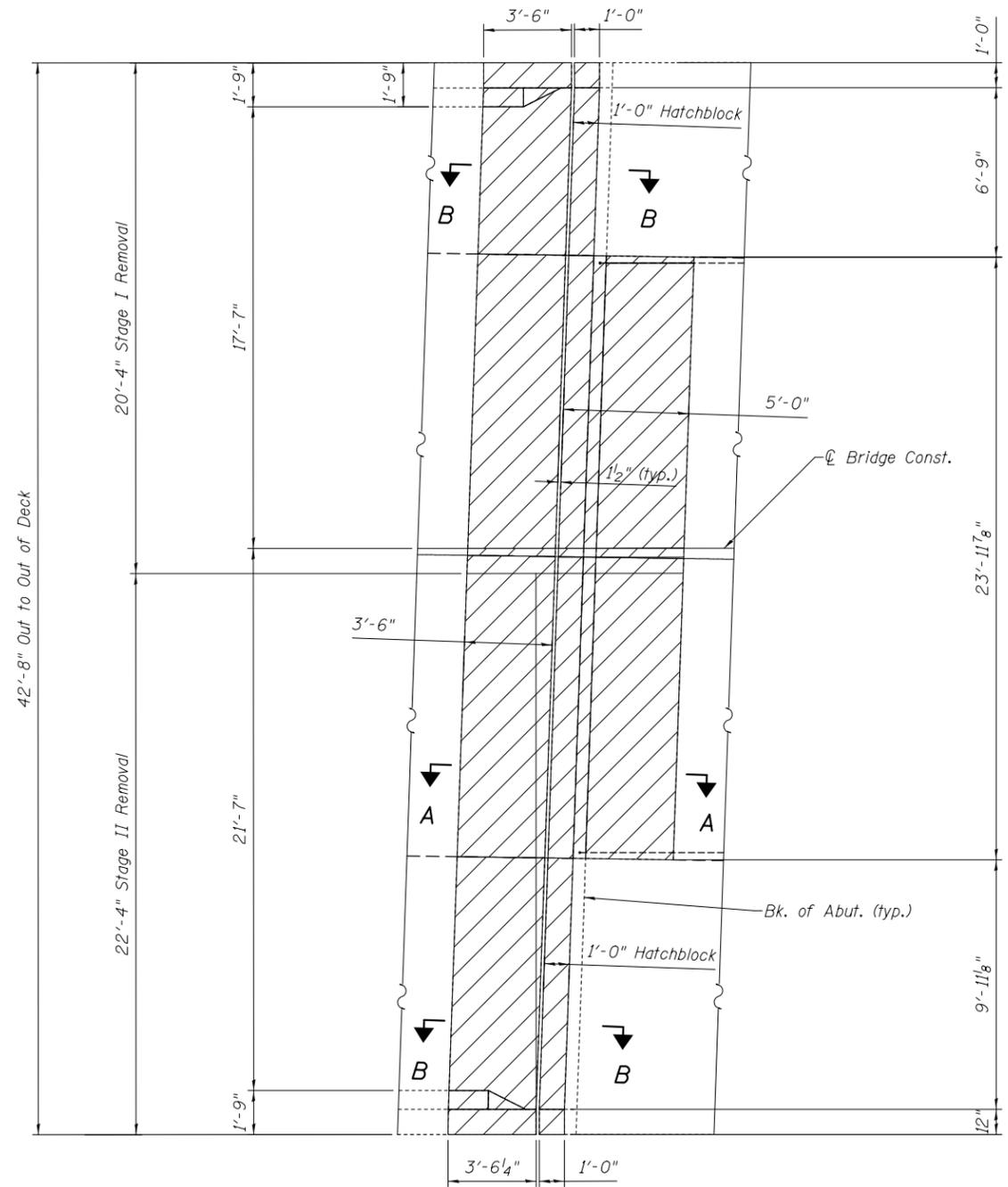
SHEET NO. 4 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	MADISON		
CONTRACT NO. 76F54				

ILLINOIS FED. AID PROJECT



**CONCRETE REMOVAL**  
(W. Abut.)



**CONCRETE REMOVAL**  
(E. Abut.)

Note:

See sheet 8 of 16 for Sections A-A & B-B.

During removal & replacement of portions of the wingwalls, the contractor shall remove & replace the name plate. Cost included with Concrete Removal.

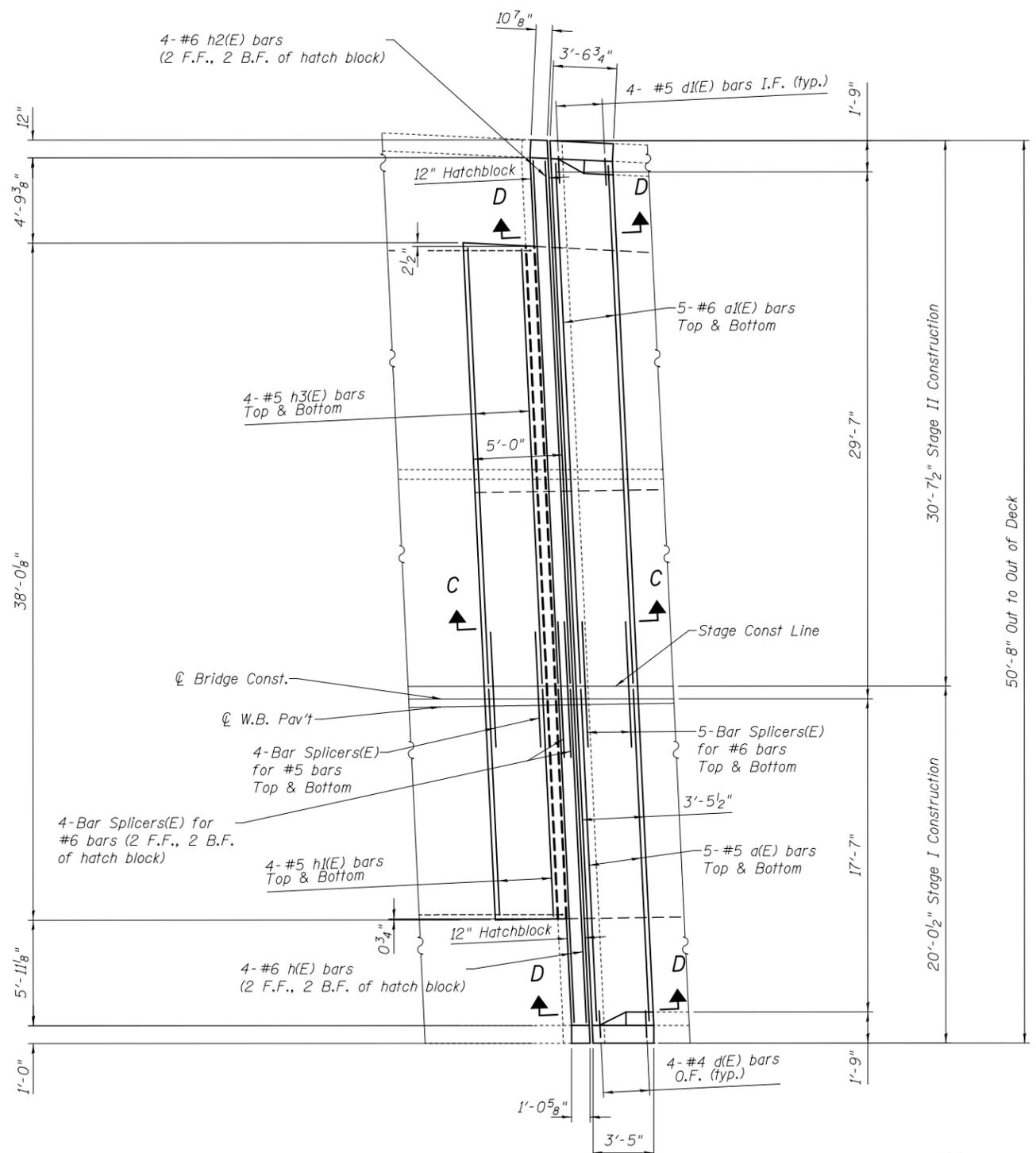
DESIGNED - AYV	EXAMINED _____	DATE - _____
CHECKED - _____	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED _____	REVISED _____
CHECKED - _____	ENGINEER OF BRIDGES AND STRUCTURES	REVISED _____

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

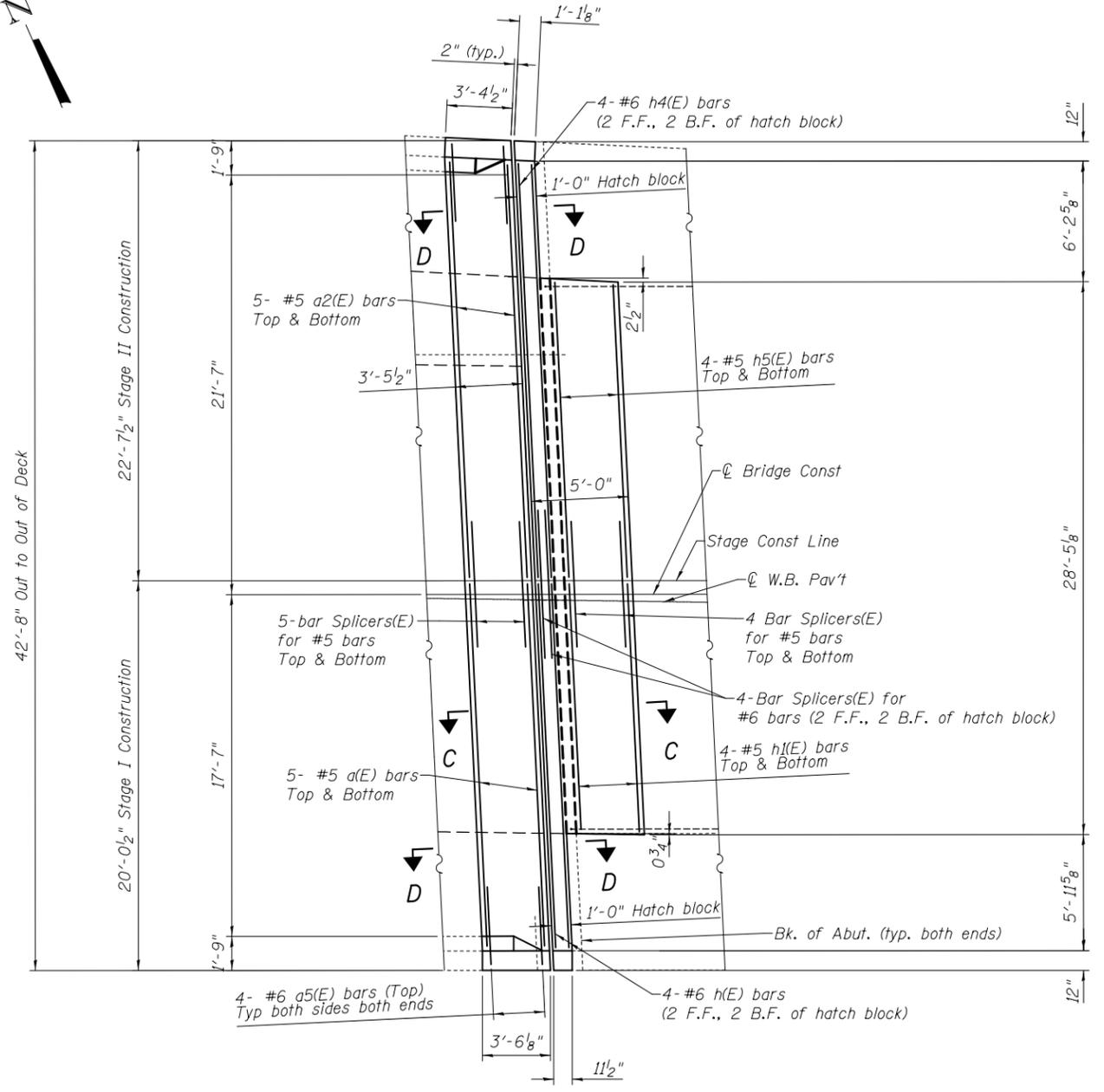
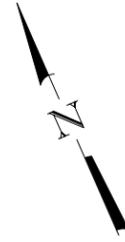
**CONCRETE REMOVAL (EB)**  
**SN 060-0192**

SHEET NO. 5 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-1	MADISON		
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				



**CONCRETE REPLACEMENT**  
(W. Abutment)



**CONCRETE REPLACEMENT**  
(E. Abutment)

Note:

Existing reinforcement bars extending into 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.

See sheet 8 of 16 for Sections C-C & D-D.

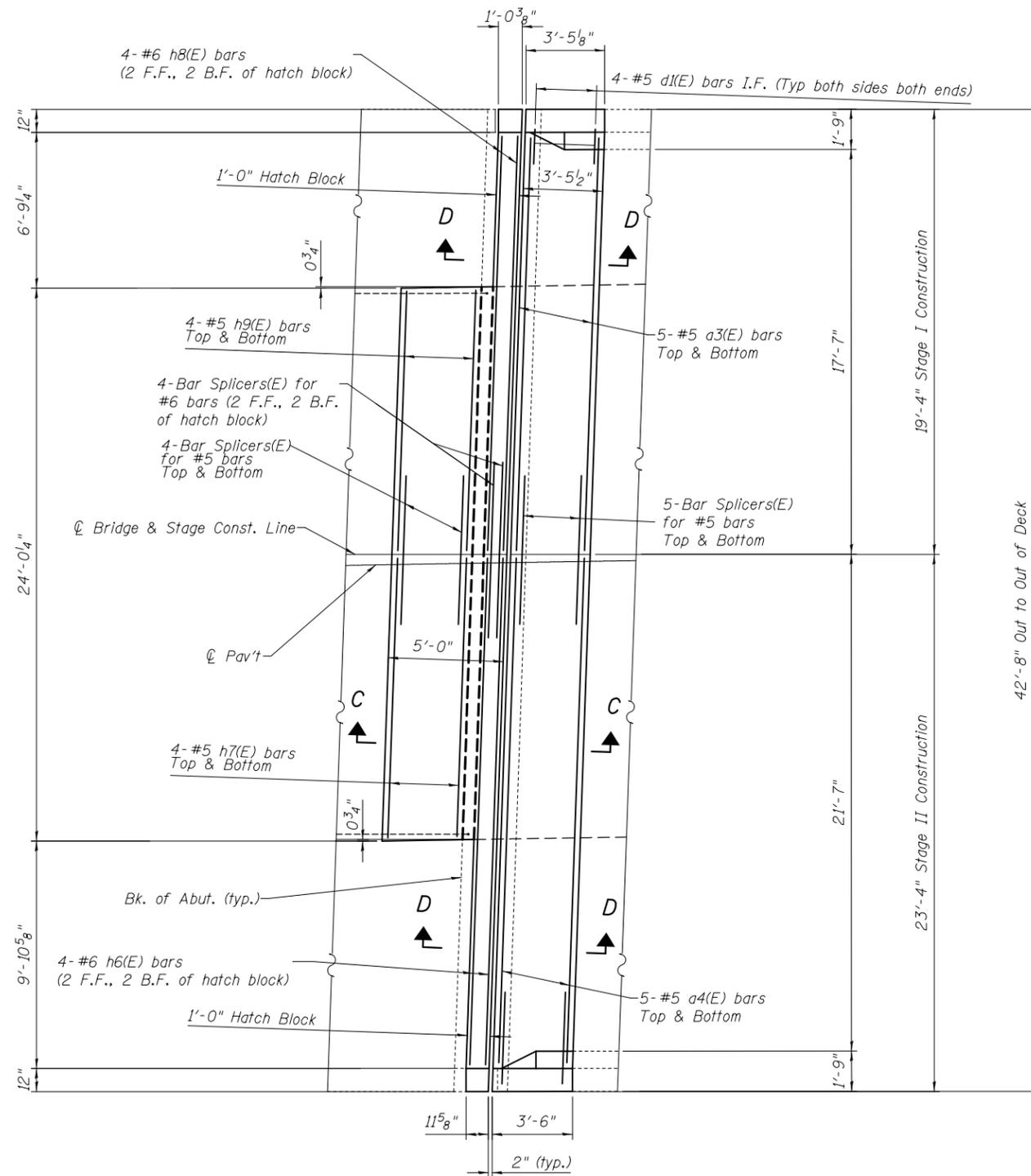
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CHECKED - _____	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED _____	REVISED _____
CHECKED - _____	ENGINEER OF BRIDGES AND STRUCTURES	REVISED _____

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

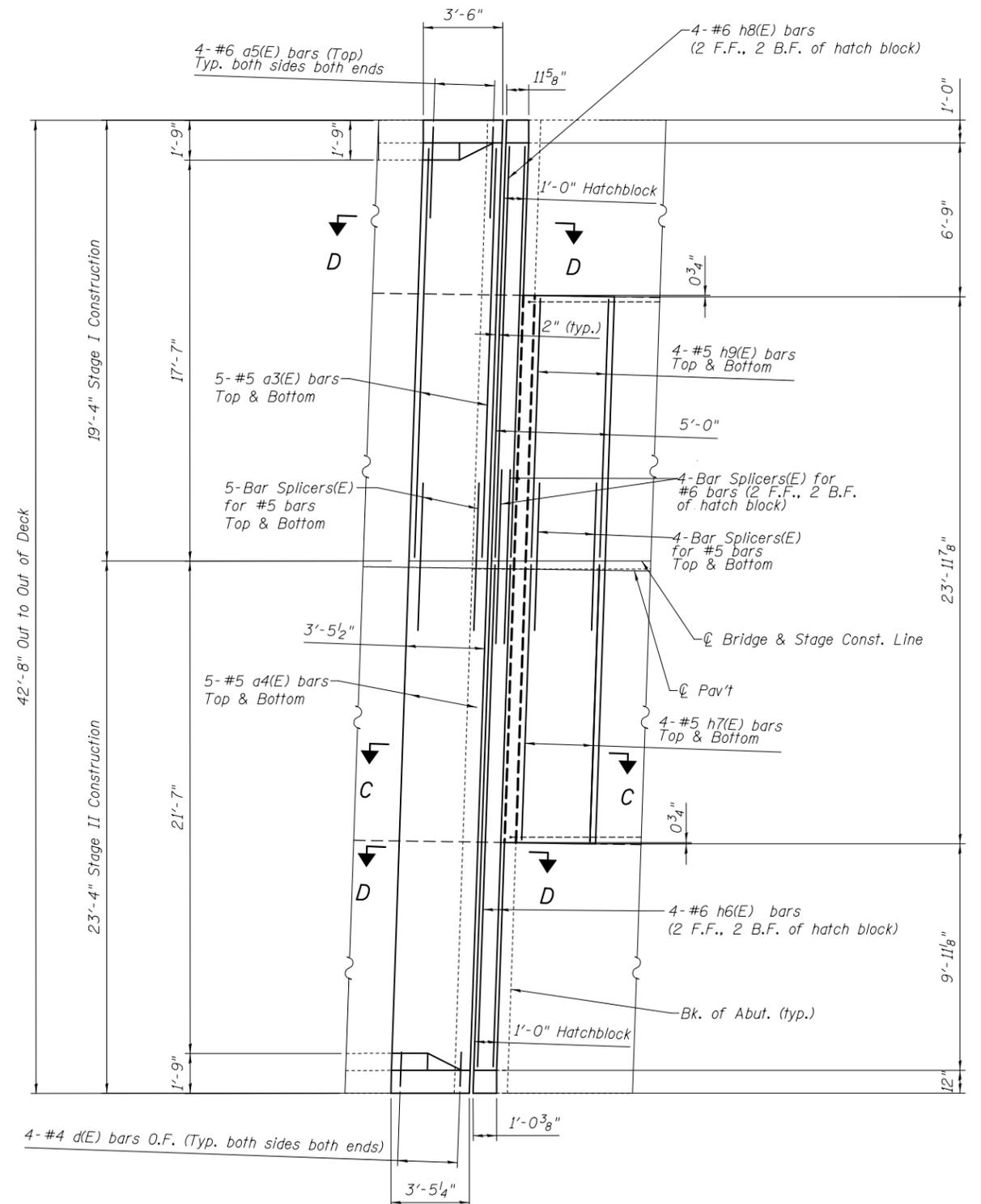
**JOINT REPLACEMENT (WB)**  
**SN 060-0191**

SHEET NO. 6 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-1	MADISON		
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				



**CONCRETE REPLACEMENT**  
(W. Abut.)

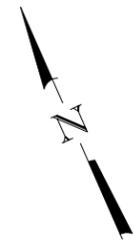


**CONCRETE REPLACEMENT**  
(E. Abut.)

Note:

Existing reinforcement bars extending into 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.

See sheet 8 of 16 for Section C-C & D-D.



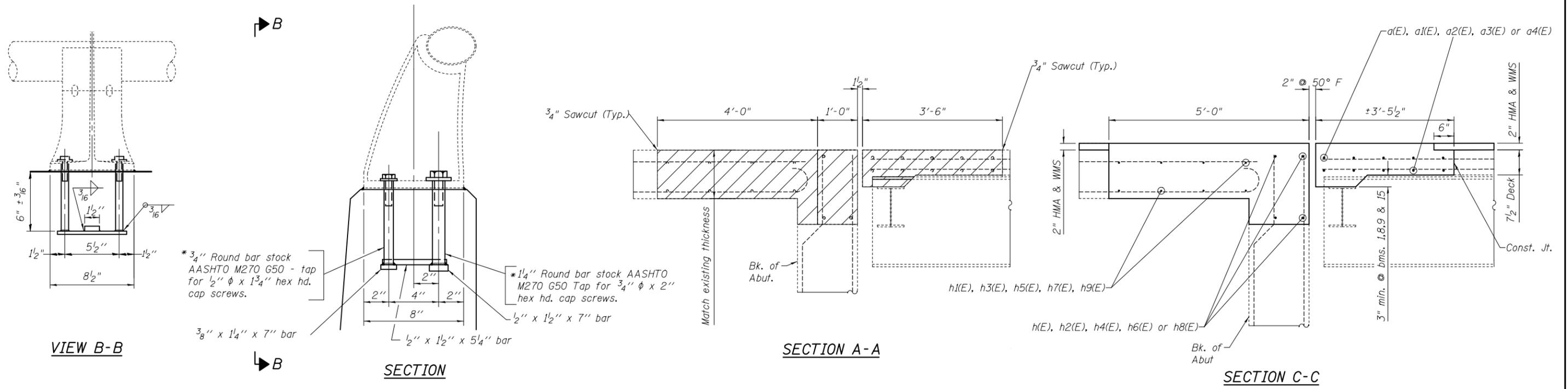
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CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

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

**JOINT REPLACEMENT (EB)**  
**SN 060-0192**

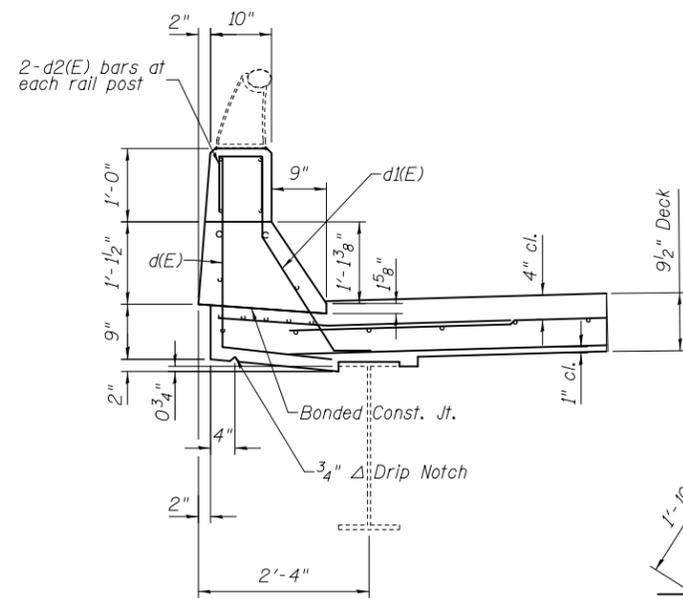
SHEET NO. 7 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-1	MADISON		
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				

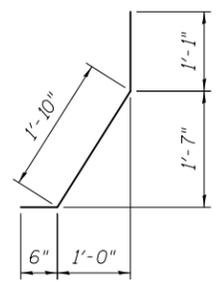


**RAIL POST DETAILS**

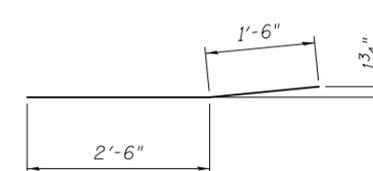
\*In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications. Cost of providing anchorages is included with Concrete Superstructure.



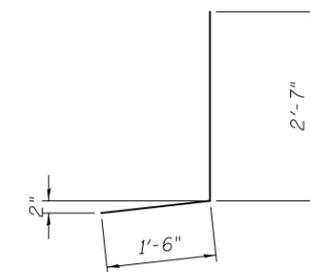
**PARAPET SECTION**



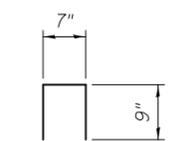
**BAR d1(E)**



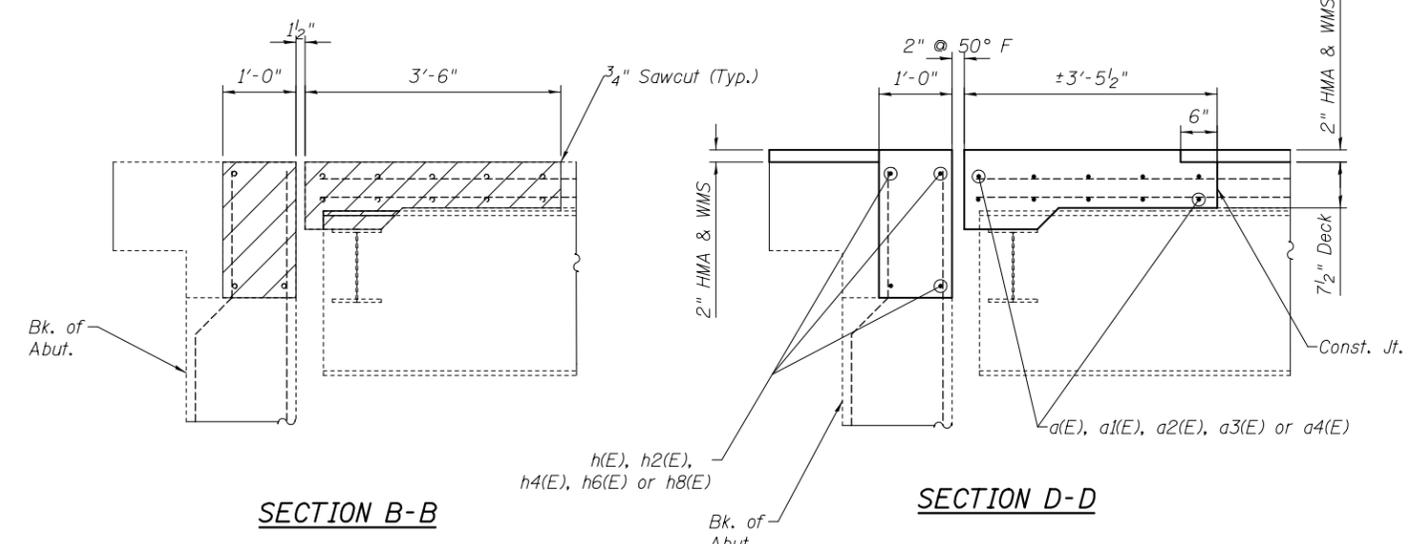
**BAR a5(E)**



**BAR d(E)**



**BAR d2(E)**



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	20	#5	18'-8"	—
a1(E)	10	#6	29'-2"	—
a2(E)	10	#5	21'-5"	—
a3(E)	20	#6	17'-11"	—
a4(E)	20	#5	21'-11"	—
a5(E)	32	#6	4'-0"	—
d(E)	32	#4	4'-1"	┘
d1(E)	32	#5	3'-5"	┘
d2(E)	16	#4	2'-1"	┘
h(E)	8	#6	18'-9"	—
h1(E)	16	#6	12'-8"	—
h2(E)	4	#6	29'-4"	—
h3(E)	8	#5	24'-5"	—
h4(E)	4	#6	21'-3"	—
h5(E)	8	#5	15'-1"	—
h6(E)	8	#6	22'-0"	—
h7(E)	16	#5	12'-1"	—
h8(E)	8	#6	18'-0"	—
h9(E)	16	#5	11'-3"	—

Concrete Removal	Cu. Yd.	62.3
Concrete Superstructure	Cu. Yd.	67.9
Reinforcement Bars, Epoxy Coated	Lbs.	4500

Reinforcement bars designated (E) shall be epoxy coated.

DESIGNED - AYV	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	

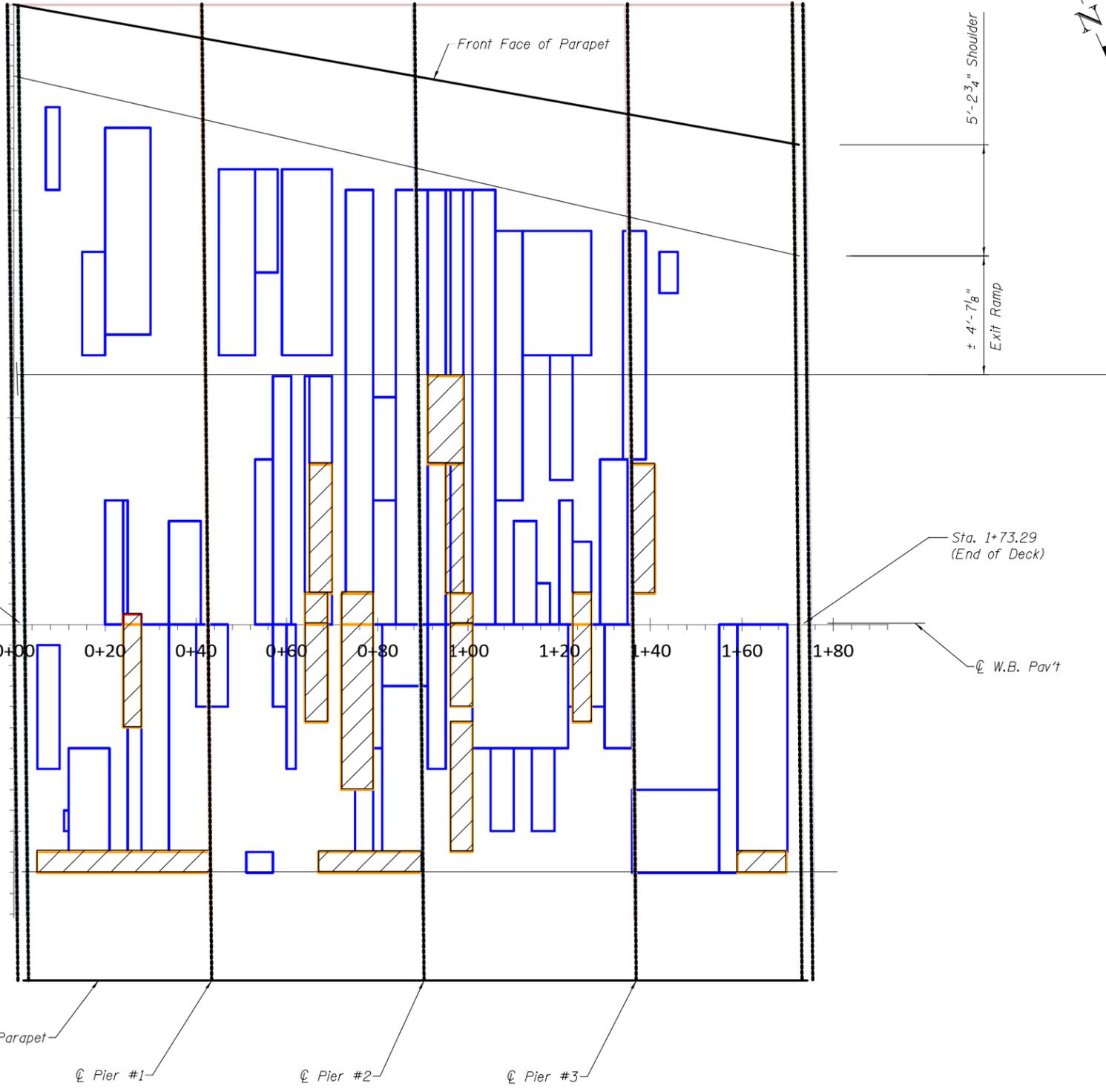
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**JOINT DETAILS  
SN 060-0191 & 0192**

SHEET NO. 8 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-1	Madison		
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				

4'-2 3/4" Shoulder  
 ±13'-8 1/8" Exit Ramp  
 12'-0"  
 12'-0"  
 5'-3" Shoulder



- Deck Slab Repair (Partial) 264 sq. yd.
- Deck Slab Repair (Full Depth, Type II) 44 sq. yd.

**NOTES**  
 The areas of deck repairs are estimated.  
 The Engineer shall show actual patch locations on as-built plans.  
 Deck Survey 5-29-2012  
 Sta. 0+00 on this sketch corresponds to the back of west abutment.

DESIGNED - AYV	EXAMINED _____	DATE - _____
CHECKED - _____	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED _____	REVISED _____
CHECKED - _____	ENGINEER OF BRIDGES AND STRUCTURES	REVISED _____

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DECK PATCHING SURVEY (WB) (SKETCH)  
 SN 060-0191**

SHEET NO. 9 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	Madison		
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				

DESIGNED - AYV  
 CHECKED -  
 DRAWN - AYV  
 CHECKED -

EXAMINED  
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE -  
 REVISED  
 REVISED

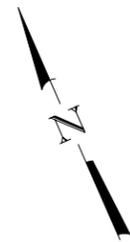
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DECK PATCHING SURVEY (DATA) (WB)  
 SN 060-0191

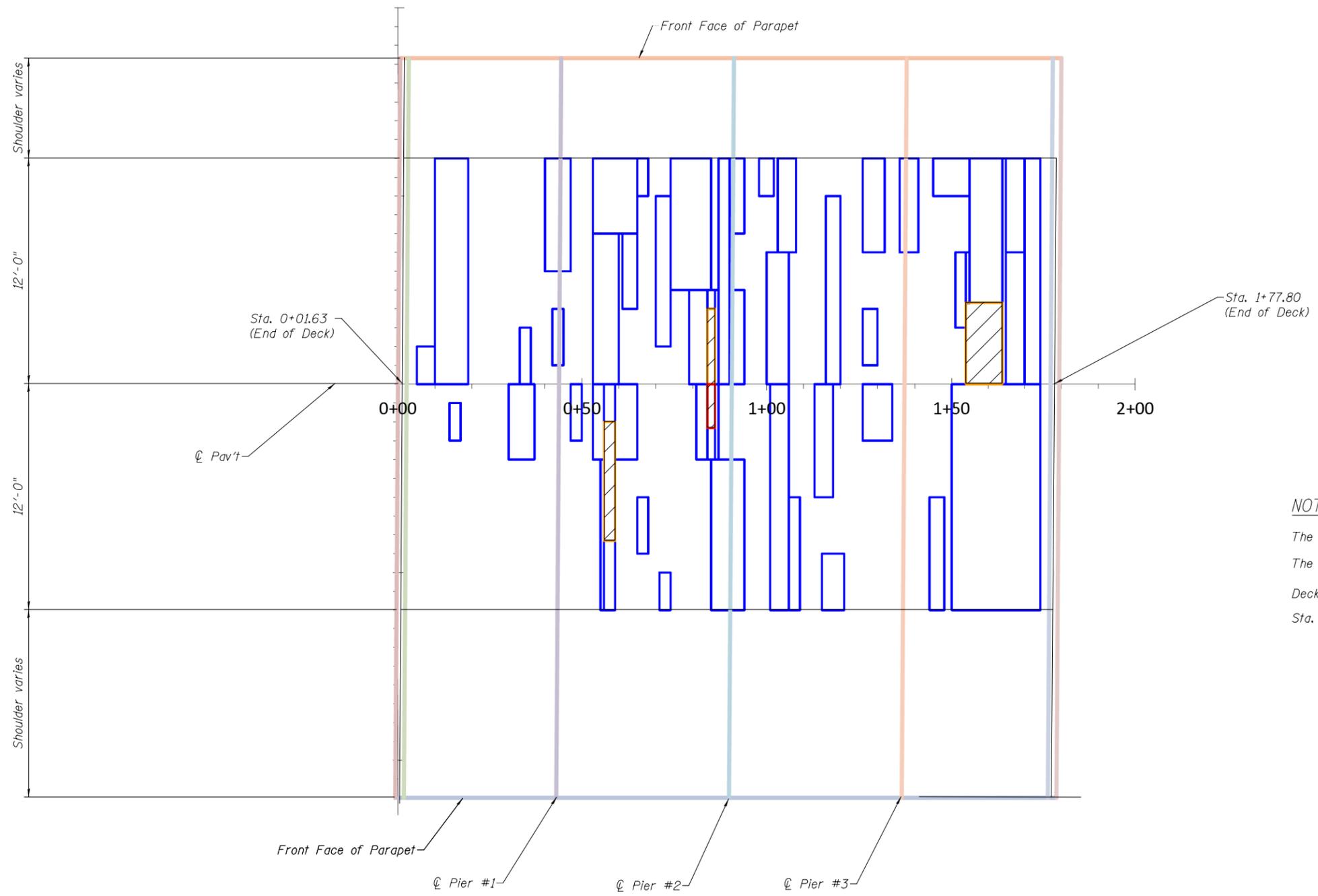
SHEET NO. 10 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	Madison		
CONTRACT NO. 76F54			ILLINOIS FED. AID PROJECT	

Patch #	Start Sta	End Sta	Offsets (ft)		Length (ft.)	Width (ft.)	Area (sy)	Full or Partial Depth	Type I or II (Full Depth)
			From	To					
1	0+07	0+10	21 Lt	25 Lt	3	4	1.33	P	
2	0+15	0+20	13 Lt	18 Lt	5	5	2.78	P	
3	0+20	0+24	0	6 Lt	4	6	2.67	P	
4	0+24	0+25	0.5 Lt	6 Lt	1	5.5	0.61	P	
5	0+20	0+30	14 Lt	24 Lt	10	10	11.11	P	
6	0+34	0+41	0	5 Lt	7	5	3.89	P	
7	0+45	0+53	13 Lt	22 Lt	8	9	8.00	P	
8	0+53	0+58	17 Lt	22 Lt	5	5	2.78	P	
9	0+53	0+57	0	8 Lt	4	8	3.56	P	
10	0+57	0+61	0	12 Lt	4	12	5.33	P	
11	0+59	0+70	13 Lt	22 Lt	11	9	11.00	P	
12	0+64	0+65	1.5 Lt	12 Lt	1	10.5	1.17	P	
13	0+69	0+70	0	1.5 Lt	1	1.5	0.17	P	
14	0+65	0+70	7.8 Lt	12 Lt	5	4.2	2.33	P	
15	0+73	0+79	1.5 Lt	21 Lt	6	19.5	13.00	P	
16	0+79	0+84	6 Lt	11 Lt	5	5	2.78	P	
17	0+84	0+91	0	21 Lt	7	21	16.33	P	
18	0+91	0+95	0	7.8 Lt	4	7.8	3.47	P	
19	0+91	0+95	12 Lt	21 Lt	4	9	4.00	P	
20	0+95	0+96	0	1.5 Lt	1	1.5	0.17	P	
21	0+95	0+96	12 Lt	21 Lt	1	9	1.00	P	
22	0+96	0+99	1.5 Lt	7.75 Lt	3	6.25	2.08	P	
23	0+96	0+99	12 Lt	21 Lt	3	9	3.00	P	
24	0+99	1+01	1.5 Lt	21 Lt	2	19.5	4.33	P	
25	1+01	1+06	0	21 Lt	5	21	11.67	P	
26	1+06	1+12	6 Lt	19 Lt	6	13	8.67	P	
27	1+10	1+15	0	5 Lt	5	5	2.78	P	
28	1+15	1+18	0	2 Lt	3	2	0.67	P	
29	1+12	1+27	13 Lt	19 Lt	15	6	10.00	P	
30	1+18	1+23	7 Lt	13 Lt	5	6	3.33	P	
31	1+20	1+23	0	6 Lt	3	6	2.00	P	
32	1+23	1+27	0	4 Lt	4	4	1.78	P	
33	1+29	1+35	0	8 Lt	6	8	5.33	P	
34	1+34	1+39	8 Lt	19 Lt	5	11	6.11	P	
35	1+42	1+46	16 Lt	18 Lt	4	2	0.89	P	
36	0+05	0+10	1 Rt	7 Rt	4.87	6	3.25	P	
37	0+11	0+12	9 Rt	10 Rt	1	1	0.11	P	
38	0+12	0+21	6 Rt	11 Rt	9	5	5.00	P	
39	0+25	0+28	5	11 Rt	3	16	5.33	P	
40	0+28	0+34	0	11 Rt	6	11	7.33	P	
41	0+40	0+47	0	4 Rt	7	4	3.11	P	
42	0+51	0+57	11	12 Rt	6	23	15.33	P	
43	0+57	0+60	0	4 Rt	3	4	1.33	P	
44	0+60	0+62	0	7 Rt	2	7	1.56	P	
45	0+79	0+81	0	6 Rt	2	6	1.33	P	
46	0+75	0+79	8 Rt	11 Rt	4	3	1.33	P	
47	0+79	0+81	6 Rt	11 Rt	2	5	1.11	P	
48	0+81	0+91	0	3 Rt	10	3	3.33	P	
49	0+91	0+95	0	7 Rt	4	7	3.11	P	
50	1+01	1+22	0	6 Rt	21	6	14.00	P	
51	1+05	1+10	6 Rt	10 Rt	5	4	2.22	P	
52	1+14	1+19	6 Rt	10 Rt	5	4	2.22	P	
53	1+22	1+23	0	4 Rt	1	4	0.44	P	
54	1+27	1+30	0	4 Rt	3	4	1.33	P	
55	1+30	1+36	0	6 Rt	6	6	4.00	P	
56	1+36	1+55	8 Rt	12 Rt	19	4	8.44	P	
57	1+55	1+59	0	12 Rt	4	12	5.33	P	
58	1+59	1+70	0	11 Rt	11	11	13.44	P	
59	0+24	0+28	0	0.5 Lt	4	0.5	0.22	F	Type I
60	0+64	0+69	0	1.5 Lt	5	1.5	0.83	F	Type II
61	0+65	0+70	1.5 Lt	7.75 Lt	5	6.25	3.47	F	Type II
62	0+72	0+79	0	1.5 Lt	7	1.5	1.17	F	Type II
63	0+91	0+99	7.75 Lt	12 Lt	8	4.25	3.78	F	Type II
64	0+95	0+99	1.5 Lt	7.75 Lt	4	6.25	2.78	F	Type II
65	0+96	1+01	0	1.5 Lt	5	1.5	0.83	F	Type II
66	1+23	1+27	0	1.5 Lt	4	1.5	0.67	F	Type II
67	1+36	1+41	1.5 Lt	7.75 Lt	5	6.25	3.47	F	Type II
68	0+05	0+43	11 Rt	12 Rt	38	1	4.22	F	Type II
69	0+24	0+28	0	5 Rt	4	5	2.22	F	Type II
70	0+64	0+69	0	4.75 Rt	5	4.75	2.64	F	Type II
71	0+67	0+90	11 Rt	12 Rt	23	1	2.56	F	Type II
72	0+72	0+79	0	8 Rt	7	8	6.22	F	Type II
73	0+96	1+01	0	4 Rt	5	4	2.22	F	Type II
74	0+96	1+01	4.75 Rt	11 Rt	5	6.25	3.47	F	Type II
75	1+23	1+27	0	4.75 Rt	4	4.75	2.11	F	Type II
76	1+59	1+70	11 Rt	12 Rt	10.79	1	1.20	F	Type II



- Deck Slab Repair (Partial) 174 sq. yd.
- Deck Slab Repair (Full Depth, Type II) 8 sq. yd.



**NOTES**

The areas of deck repairs are estimated.

The Engineer shall show actual patch locations on as-built plans.

Deck Survey 5-29-2012

Sta. 0+00 on this sketch corresponds to the back of west abutment.

DESIGNED - AYV	EXAMINED _____	DATE - _____
CHECKED - _____	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED _____	REVISED _____
CHECKED - _____	ENGINEER OF BRIDGES AND STRUCTURES	REVISED _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DECK PATCHING SURVEY (SKETCH) (EB)  
SN 060-0192**

SHEET NO. 11 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	Madison		
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				

Patch #	Start Sta	End Sta	Offsets (ft)		Length (ft.)	Width (ft.)	Area (sy)	Full or Partial Depth	Type I or II (Full Depth)
			From	To					
1	0+05	0+10	0	2 Lt	4.87	2	1.08	P	
2	0+10	0+19	0	12 Lt	9	12	12.00	P	
3	0+33	0+36	0	3 Lt	3	3	1.00	P	
4	0+40	0+47	6 Lt	12 Lt	7	6	4.67	P	
5	0+42	0+45	1 Lt	4 Lt	3	3	1.00	P	
6	0+53	0+65	8 Lt	12 Lt	12	4	5.33	P	
7	0+53	0+60	0	8 Lt	7	8	6.22	P	
8	0+61	0+65	4 Lt	8 Lt	4	4	1.78	P	
9	0+65	0+68	10 Lt	12 Lt	3	2	0.67	P	
10	0+70	0+74	2 Lt	10 Lt	4	8	3.56	P	
11	0+74	0+85	5 Lt	12 Lt	11	7	8.56	P	
12	0+79	0+84	0	5 Lt	5	5	2.78	P	
13	0+84	0+86	4 Lt	5 Lt	2	1	0.22	P	
14	0+86	0+87	0	5 Lt	1	5	0.56	P	
15	0+87	0+90	0	12 Lt	3	12	4.00	P	
16	0+90	0+94	0	5 Lt	4	5	2.22	P	
17	0+90	0+94	8 Lt	12 Lt	4	4	1.78	P	
18	0+98	1+02	10 Lt	12 Lt	4	2	0.89	P	
19	1+00	1+06	0	7 Lt	6	7	4.67	P	
20	1+03	1+08	7 Lt	12 Lt	5	5	2.78	P	
21	1+16	1+20	0	10 Lt	4	10	4.44	P	
22	1+26	1+30	1 Lt	4 Lt	4	3	1.33	P	
23	1+26	1+32	7 Lt	12 Lt	6	5	3.33	P	
24	1+36	1+41	7 Lt	12 Lt	5	5	2.78	P	
25	1+45	1+55	10 Lt	12 Lt	10	2	2.22	P	
26	1+51	1+54	3 Lt	7 Lt	3	4	1.33	P	
27	1+54	1+55	4.3 Lt	7 Lt	1	2.7	0.30	P	
28	1+55	1+64	4.33 Lt	12 Lt	9	7.67	7.67	P	
29	1+64	1+65	0	12 Lt	1	12	1.33	P	
30	1+65	1+70	7 Lt	12 Lt	5	5	2.78	P	
31	1+70	1+74	0	12 Lt	4.3	12	5.73	P	
32	0+14	0+17	1 Rt	3 Rt	3	2	0.67	P	
33	0+30	0+37	0	4 Rt	7	4	3.11	P	
34	0+47	0+50	0	3 Rt	3	3	1.00	P	
35	0+53	0+56	0	4 Rt	3	4	1.33	P	
36	0+56	0+59	0	2 Rt	3	2	0.67	P	
37	0+59	0+65	0	4 Rt	6	4	2.67	P	
38	0+55	0+56	4 Rt	12 Rt	1	8	0.89	P	
39	0+56	0+59	8.33 Rt	12 Rt	3	3.67	1.22	P	
40	0+65	0+68	6 Rt	9 Rt	3	3	1.00	P	
41	0+71	0+74	10 Rt	12 Rt	3	2	0.67	P	
42	0+81	0+84	0	4 Rt	3	4	1.33	P	
43	0+84	0+86	2.33 Rt	4 Rt	2	1.67	0.37	P	
44	0+86	0+87	0	4 Rt	1	4	0.44	P	
45	0+85	0+94	4 Rt	12 Rt	9	8	8.00	P	
46	1+01	1+06	0	12 Rt	5	12	6.67	P	
47	1+06	1+09	6 Rt	12 Rt	3	6	2.00	P	
48	1+13	1+18	0	6 Rt	5	6	3.33	P	
49	1+15	1+21	9 Rt	12 Rt	6	3	2.00	P	
50	1+26	1+34	0	3 Rt	8	3	2.67	P	
51	1+44	1+48	6 Rt	12 Rt	4	6	2.67	P	
52	1+50	1+74	0	12 Rt	24.3	12	32.40	P	
53	0+84	0+86	0	4 Lt	2	4	0.89	F	Type II
54	1+54	1+64	0	4.33 Lt	10	4.33	4.81	F	Type II
55	0+56	0+59	2 Rt	8.33 Rt	3	6.33	2.11	F	Type II
56	0+84	0+86	0	2.33 Rt	2	2.33	0.52	F	Type I

DESIGNED - AYV  
 CHECKED -  
 DRAWN - AYV  
 CHECKED -

EXAMINED  
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED  
 ENGINEER OF BRIDGES AND STRUCTURES

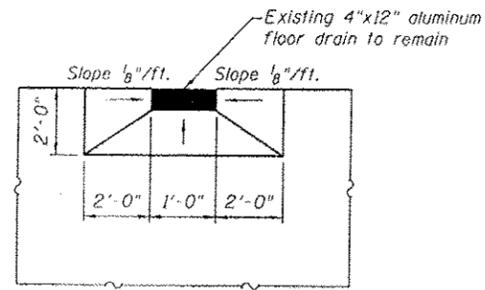
DATE -  
 REVISED  
 REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

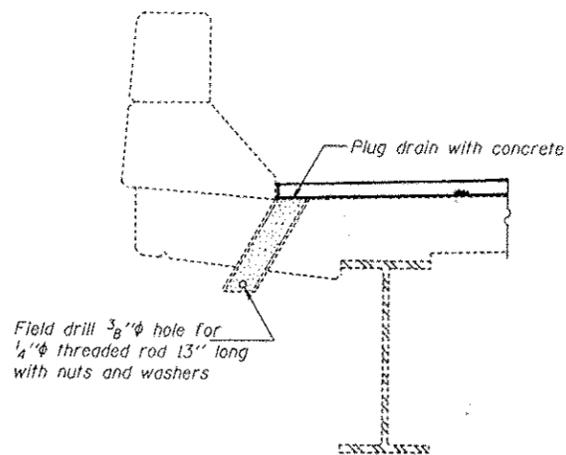
DECK PATCHING SURVEY (DATA) (EB)  
 SN 060-0192

SHEET NO. 12 OF 16 SHEETS

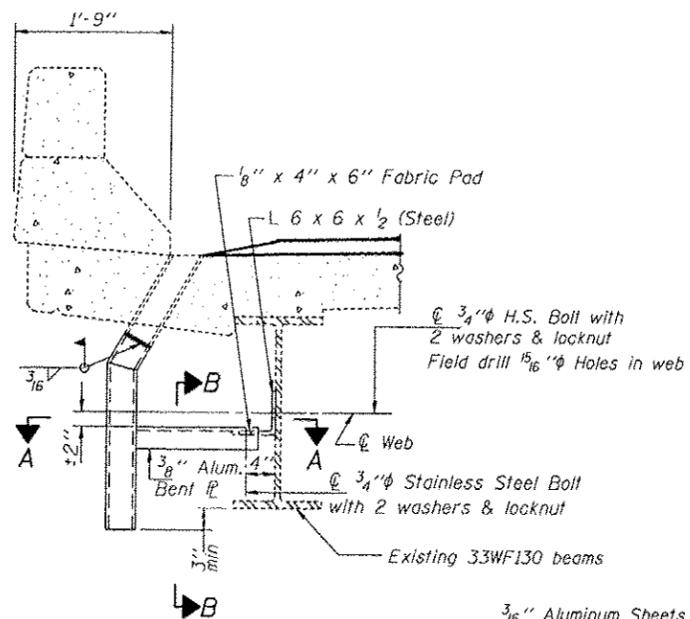
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	Madison		
CONTRACT NO. 76F54			ILLINOIS FED. AID PROJECT	



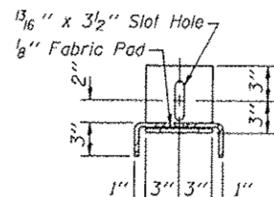
**DRAIN DETAIL**



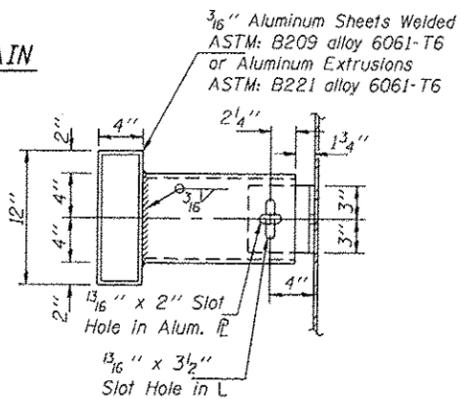
**PLUG DRAIN DETAIL**



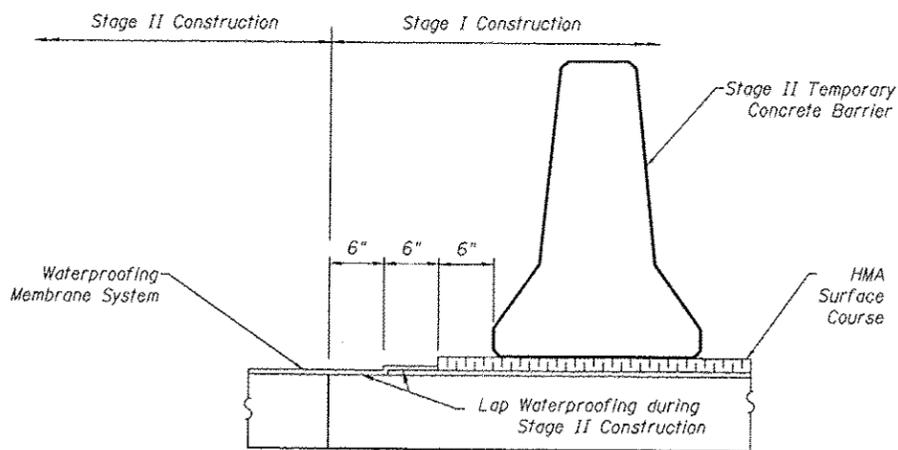
**SECTION AT DRAIN**



**SECTION B-B**

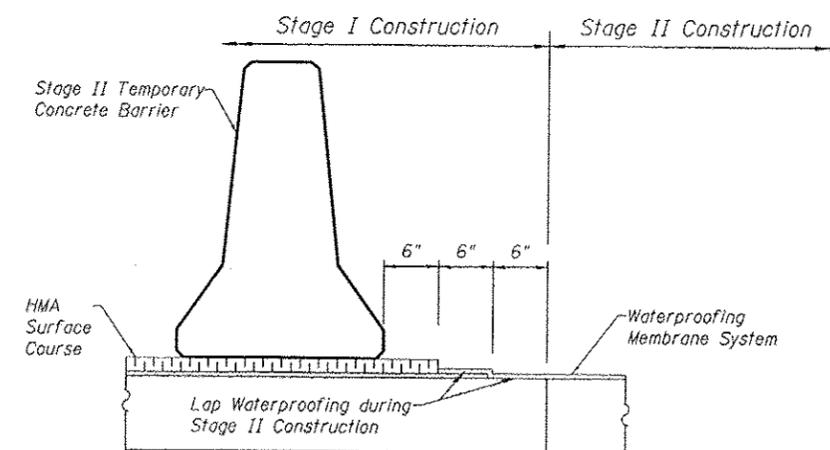


**SECTION A-A**



**WATERPROOFING STAGING (WB)**

Looking East



**WATERPROOFING STAGING (EB)**

Looking East

DESIGNED - AYW	EXAMINED - <i>Timothy A. Gault</i>	DATE - 11/20/12
CHECKED -	PASSED - <i>De Carol Perry</i>	REVISOR -
DRAWN - AYW	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED -		REVISOR -

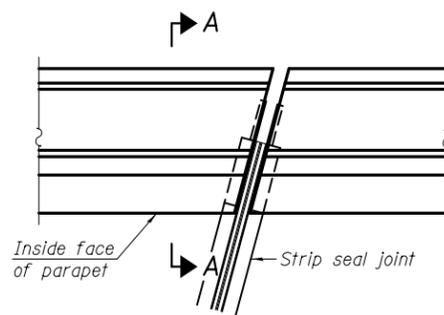
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAIN DETAILS & WATERPROOFING STAGING  
STRUCTURE NO. 060-0191 & 0192

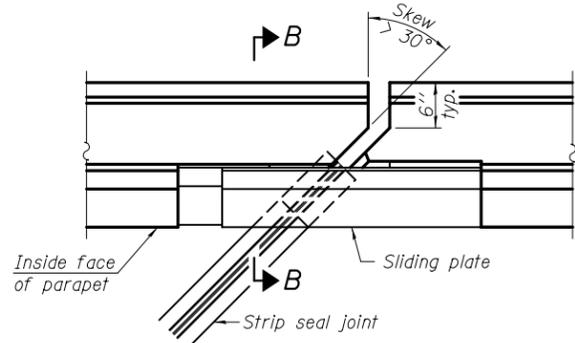
F.A.P. RTE. 789	SECTION 125-1HB-1	COUNTY MADISON	TOTAL SHEETS 29	SHEET NO. 26
				CONTRACT NO. 76F54

SHEET NO. 13 OF 16 SHEETS

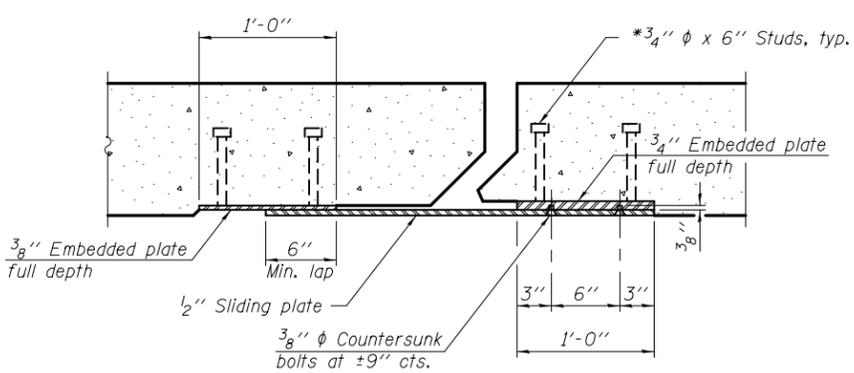
ILLINOIS FED. AID PROJECT



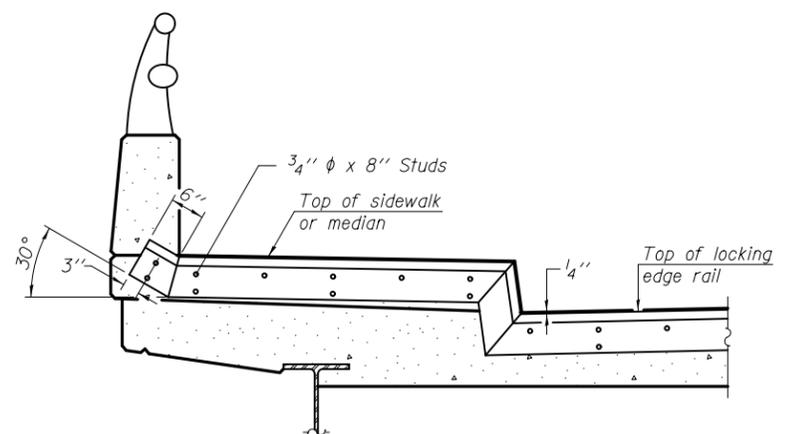
**PLAN**  
(For skews  $\leq 30^\circ$ )



**PLAN**  
(For skews  $> 30^\circ$ )  
Showing point block

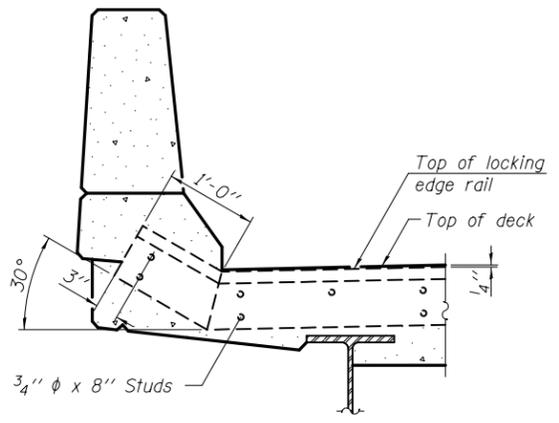


**SECTION C-C**

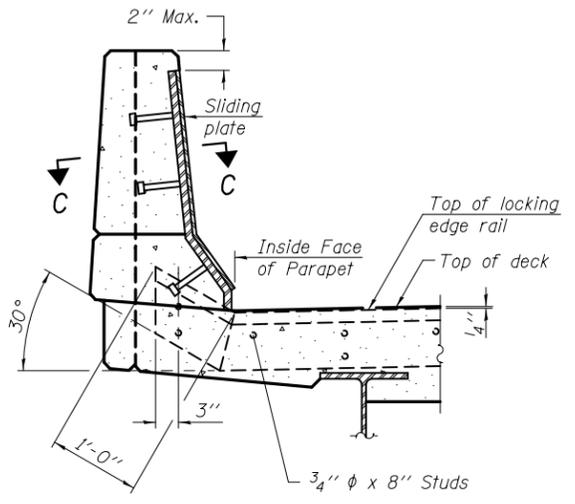


**TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN**

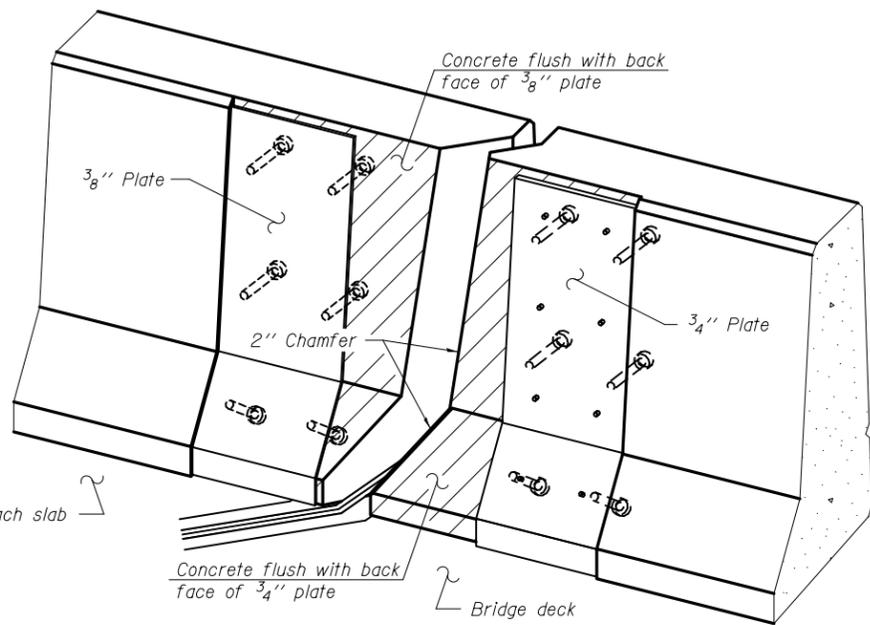
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



**SECTION A-A**



**SECTION B-B**



**TRIMETRIC VIEW**  
(Showing back plates only)

**Notes:**

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

The Locking Edge Rails depicted are 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.

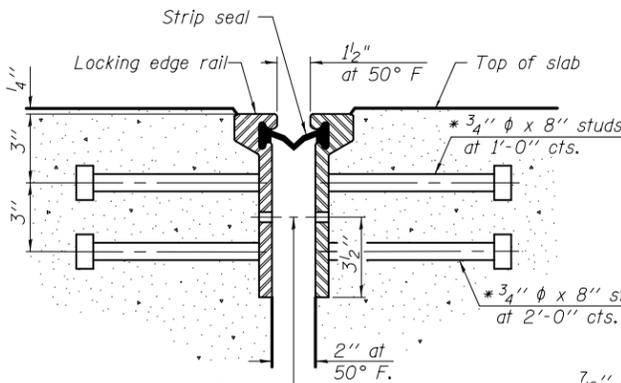
The manufacturer's recommended installation methods shall be followed.

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.

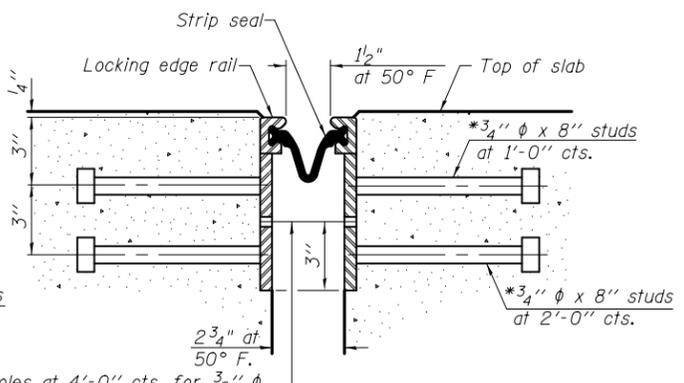
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

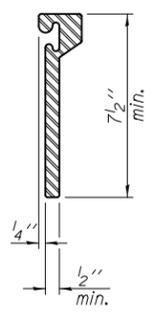
Parapet plates and anchorage studs for skews  $> 30^\circ$  included in the cost of Preformed Joint Strip Seal.



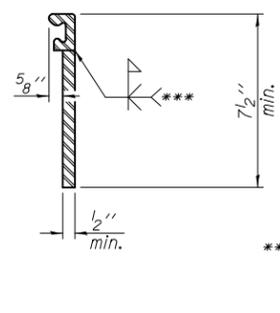
**SECTION THRU ROLLED RAIL JOINT**



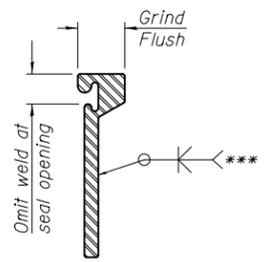
**SECTION THRU WELDED RAIL JOINT**



**ROLLED 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.

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

**LOCKING EDGE RAILS**

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	180

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

EJ-SSJ

1-27-12

DESIGNED - A.Y.V.	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - A.Y.V.	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

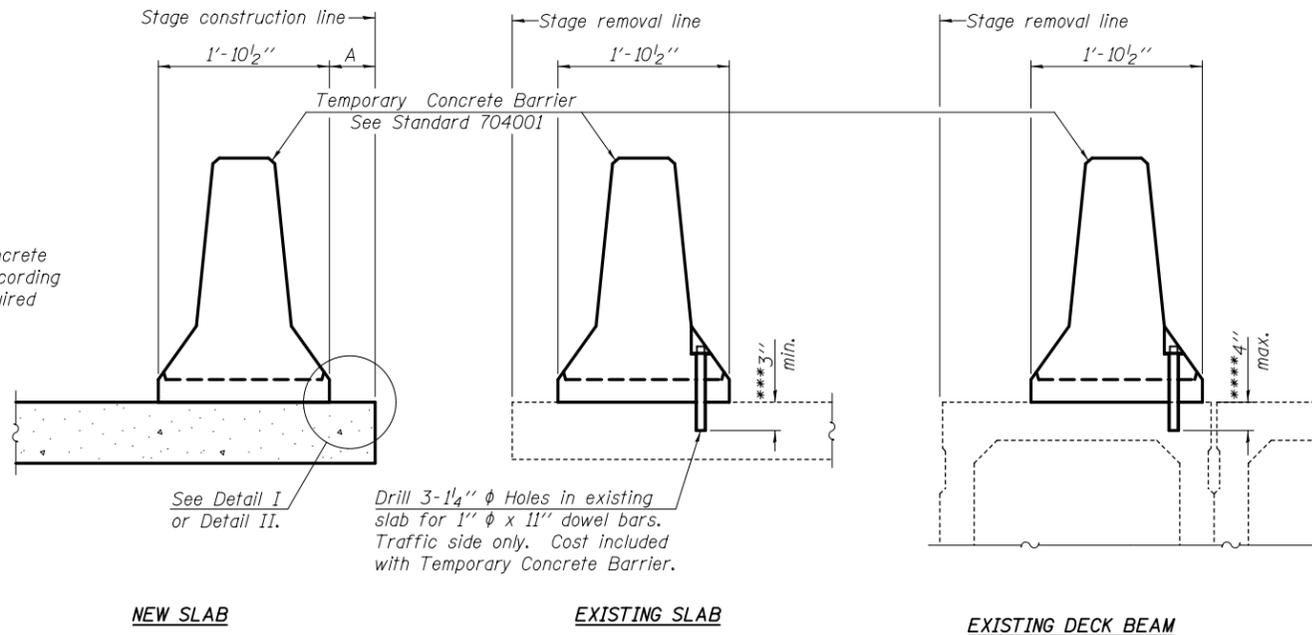
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL**  
**STRUCTURE NO.060-0191 & 0192**

SHEET NO. 14 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	MADISON		
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

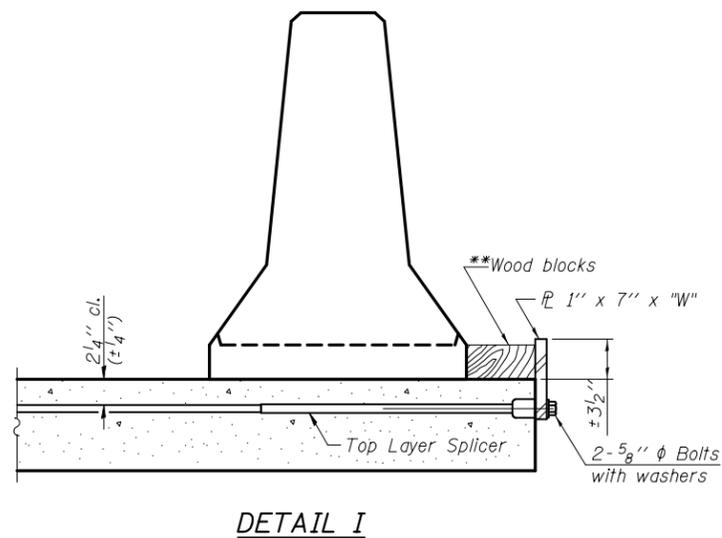
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

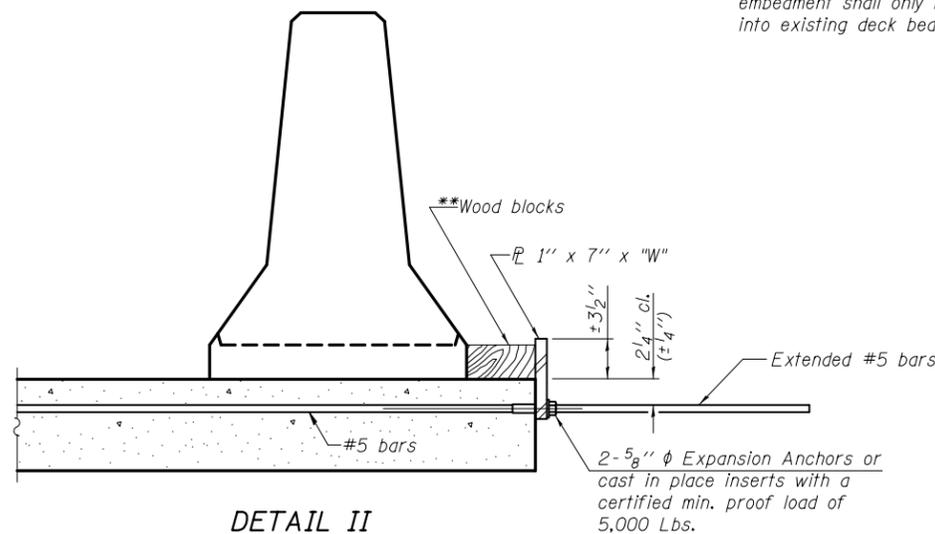
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

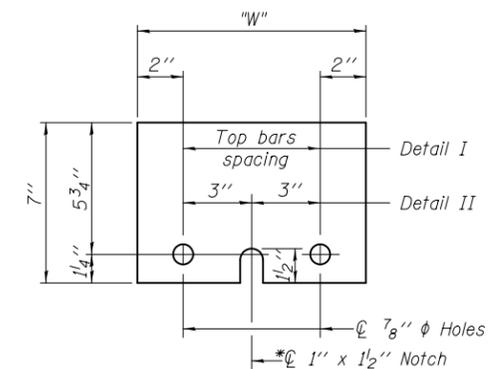
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**DETAIL I**



**DETAIL II**



**STEEL RETAINER PL 1" x 7" x "W"**

\* Required only with Detail II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

DESIGNED - A.Y.V.	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - A.Y.V.	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

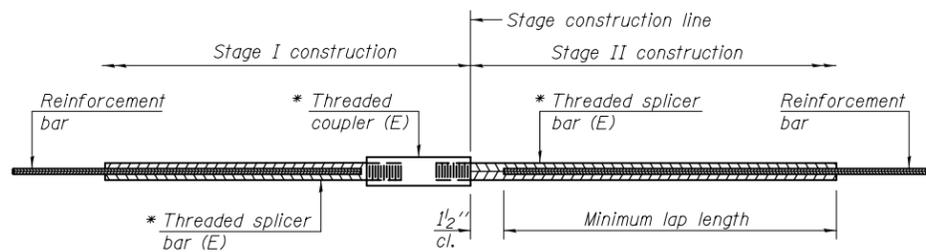
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO.060-0191 & 0192**

SHEET NO. 15 OF 16 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	MADISON		
CONTRACT NO. 76F54				

ILLINOIS FED. AID PROJECT



**STANDARD BAR SPLICER ASSEMBLY**

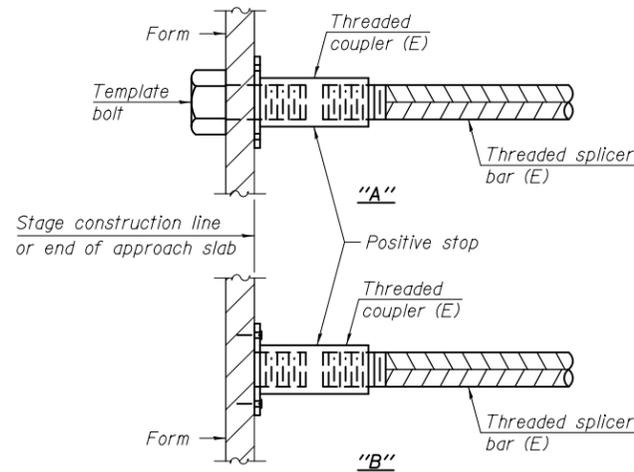
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar lap, Class C

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

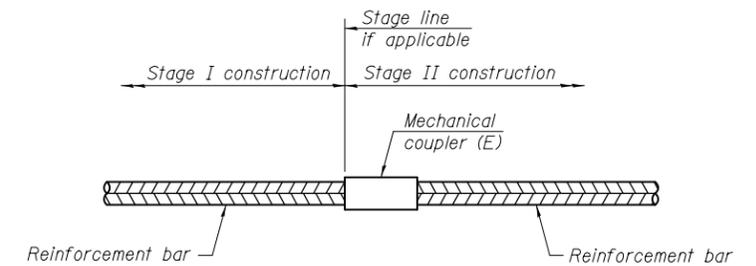
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
End of Decks (W.B. W. Abut.)	#6	10	4
End of Decks (except W.B. W. Abut.)	#5	30	4
Hatch Block	#6	16	4
Approach	#5	32	4



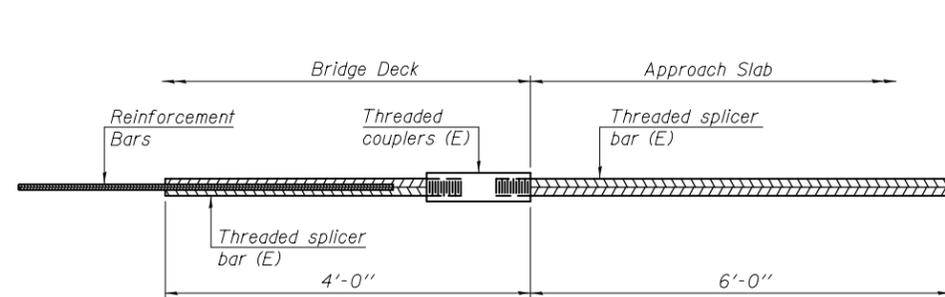
**INSTALLATION AND SETTING METHODS**

"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.



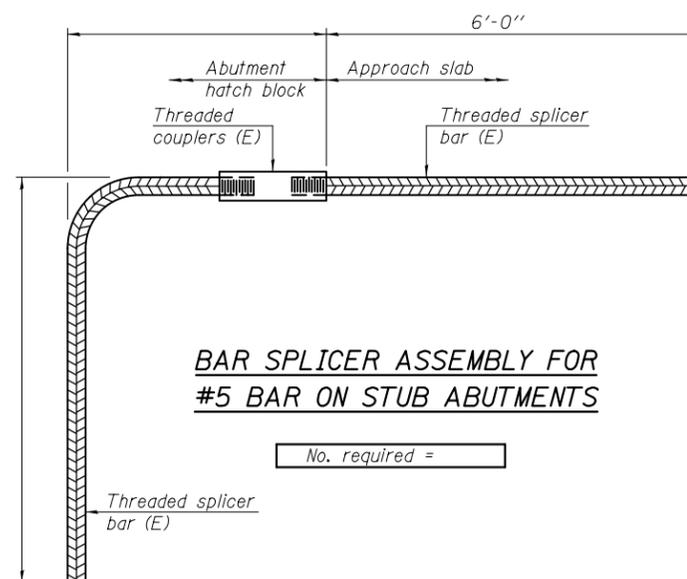
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. 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

1-27-12

DESIGNED - AYV	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - AYV	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 060-0191 & 0192

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	125-1HB-I	MADISON		
CONTRACT NO. 76F54				
ILLINOIS FED. AID PROJECT				

SHEET NO. 16 OF 16 SHEETS