

118

03-08-2019 LETTING ITEM 118

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	25	1
CONTRACT NO. 74884				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

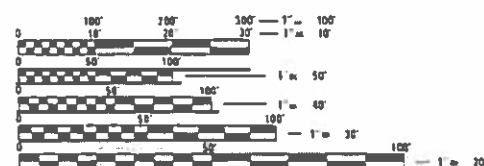
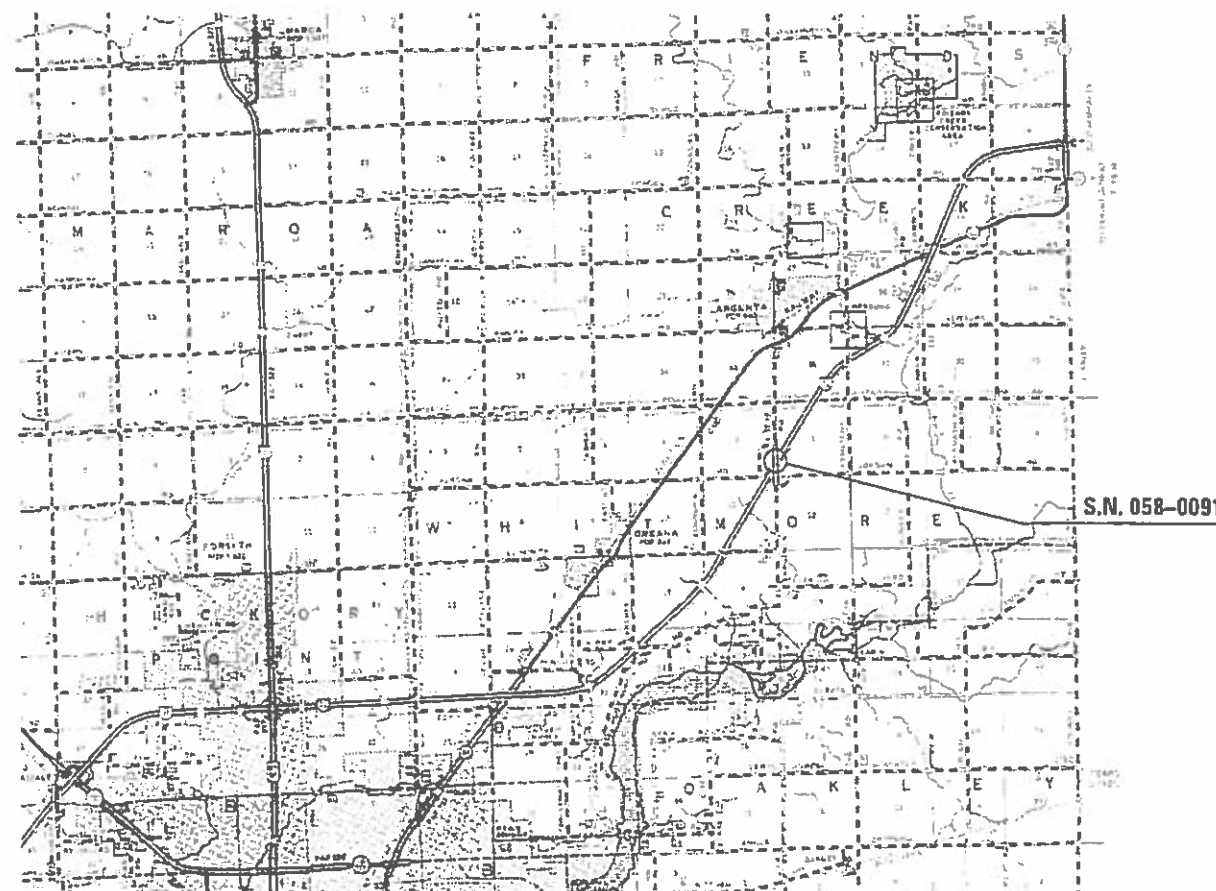
PROPOSED HIGHWAY PLANS

FAI ROUTE 72 (I-72)
SECTION D7 BRIDGE REPAIRS 2019-1
BRIDGE REPAIR
MACON COUNTY

D-97-071-18



C-97-121-18



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

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

PROJECT ENGINEER: TOM RONAN
PROJECT MANAGER: RYAN WEI

CONTRACT NO. 74884

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED JANUARY 3 2019
Jeffrey M. Smith
REGIONAL ENGINEER

Feb 19 2019
E.A. EK
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 19 2019
David P. Chy
DIRECTOR HIGHWAYS PROJECT IMPLEMENTATION

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REV. - MS

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES, & HIGHWAY STANDARDS
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SCHEDULES OF QUANTITIES
7-14	TRAFFIC CONTROL PLAN SHEETS
15-25	STRUCTURE PLAN SHEETS AND DETAILS
26	CONCRETE MEDIAN DETAIL

GENERAL NOTES

THIS PROJECT IS LOCATED OVER I-72 AT THE ARGENTA INTERCHANGE IN MACON COUNTY. THIS WORK INCLUDES THE FOLLOWING REPAIRS TO STRUCTURE 058-0091 CARRYING CH-25 OVER I-72: PARTIAL AND FULL DEPTH DECK PATCHING, NEW WATERPROOFING MEMBRANE & BITUMINOUS WEARING SURFACE, EXPANSION JOINT REPLACEMENT WITH NEW STRIP SEALS, STRUCTURAL REPAIR OF CONCRETE ON THE SUBSTRUCTURE, REPLACEMENT OF BEARINGS ON THE PLATE GIRDERS AT BOTH ABUTMENTS, AND ALL OTHER WORK NECESSARY TO COMPLETE THIS PROJECT.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING - LINE 4" CONSISTS OF 922 FEET OF YELLOW.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING - LINE 4" CONSISTS OF 922 FEET OF WHITE.

TEMPORARY PORTABLE TRAFFIC SIGNALS SHALL ONLY BE USED FROM MARCH 1 TO NOVEMBER 1.

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STD. NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, 15' MINIMUM AWAY FROM PAVEMENT EDGE
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' AWAY TO EDGE OF PAVEMENT
701101-05	OFF-ROAD OPERATIONS, MULTI-LANE, 15' AWAY TO EDGE OF PAVEMENT
701106-02	OFF-ROAD OPERATIONS, MULTI-LANE, 15' MINIMUM AWAY FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701316-12	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS >= 45 MPH
701400-09	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY / EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	QUALITY MANAGEMENT
HMA SURFACE COURSE, MIX "C", N70	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX, STANDARDS
& GENERAL NOTES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	2
CONTRACT NO. 74884				
ILLINOIS FED. AID PROJECT				

100%
STATE

100%
STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047		
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SO YD	110	110		
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	204	204		
42000060	WELDED WIRE REINFORCEMENT	SO YD	110	110		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	2398	2398		
50102400	CONCRETE REMOVAL	CU YD	39.3	39.3		
50157300	PROTECTIVE SHIELD	SO YD	911	911		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	38.9	38.9		
50300300	PROTECTIVE COAT	SO YD	119	119		
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4790	4790		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6630	6630		
50800515	BAR SPLICERS	EACH	38	38		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	244	244		
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	18	18		
52100520	ANCHOR BOLTS, 1"	EACH	54	54		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047		
58100200	WATERPROOFING MEMBRANE SYSTEM	SO YD	2418	2418		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4		
67100100	MOBILIZATION	L SUM	1	1		
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	1	1		
	701316					
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	2	2		
	701411					
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1		
	701201					
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1		
	701401					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1		
	701701					
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF
QUANTITIES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	3
CONTRACT NO. 74884				
ILLINOIS FED. AID PROJECT				

100%
STATE

100%
STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	46	46		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	15	15		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6067	6067		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1844	1844		
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	2022	2022		
X4403300	CONCRETE MEDIAN REMOVAL	SO FT	990	990		
X6061702	CONCRETE MEDIAN, TYPE SM (DOWELLED)	SO FT	990	990		
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1844	1844		
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	18	18		
Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHOLES (COLD MIX)	TON	2	2		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	120	120		
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	9	9		
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	62	62		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047		
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	130	130		

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

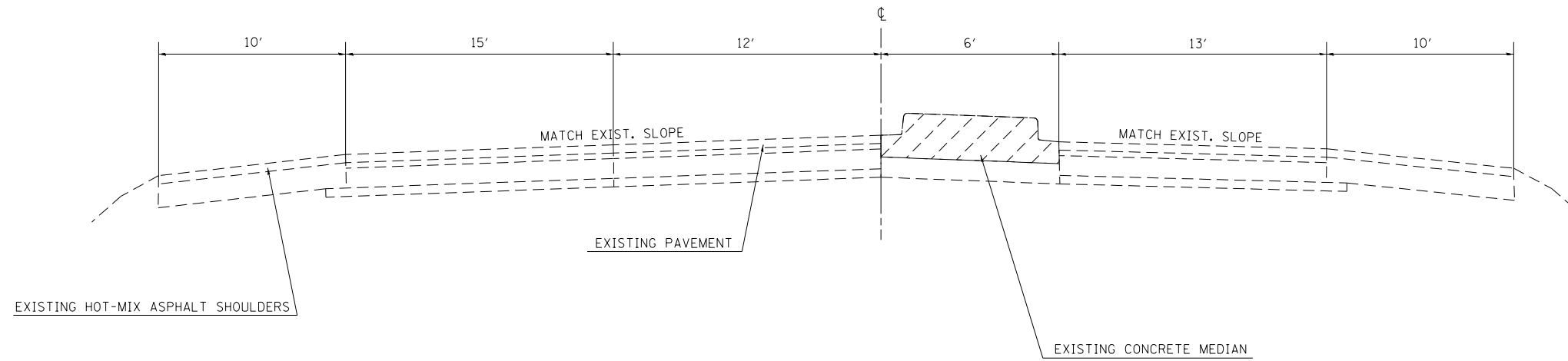
SUMMARY OF
QUANTITIES

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74884	

EXISTING TYPICAL SECTION

STATION 41+50 TO 42+35

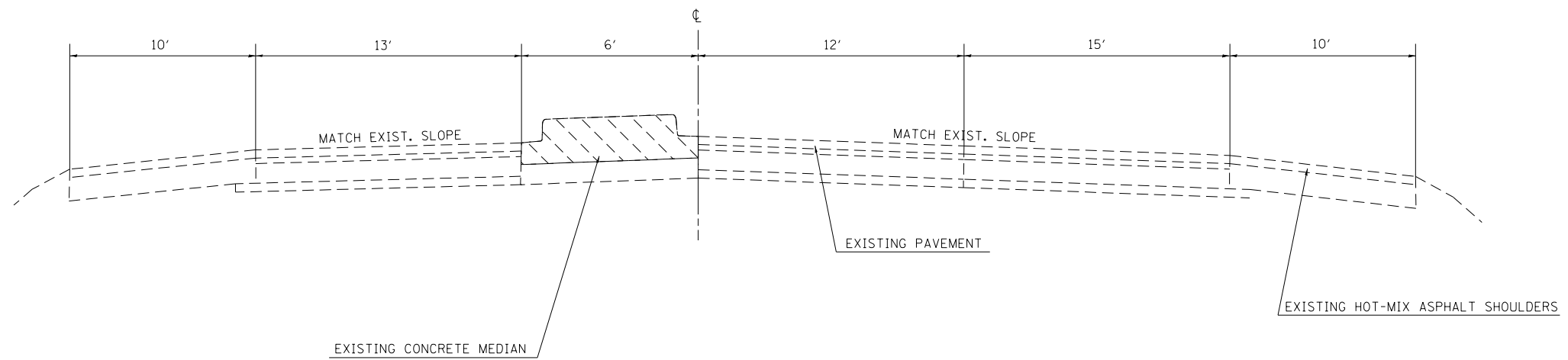


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EXISTING TYPICAL SECTION

STATION 57+70 TO 58+50



NOTE: NOT TO SCALE



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL SECTIONS

SCALE: SHEET OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74884	

STATION TO STATION	LENGTH	PAINT PAVEMENT MARKING - LINE YELLOW 4"	PAINT PAVEMENT MARKING - LINE WHITE 4"	TEMPORARY PAVEMENT MARKING - WHITE LINE 4"	TEMPORARY PAVEMENT MARKING - YELLOW LINE 4"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL - WATER BLASTING	GROOVING FOR RECESSED PAVEMENT MARKING 5"
	FEET	FT	FT	FT	FT	FT	SQ FT	SQ FT	FOOT
41+05 TO 59+06	1801	922	922	5145	922	46	15	2022	1844
TOTALS		922	922	5145	922	46	15	2022	1844

STATION	TO	STATION	LENGTH	PORTLAND CEMENT CONCRETE BASE COURSE 9"	WELDED WIRE REINFORCEMENT	CONCRETE MEDIAN REMOVAL	CONCRETE MEDIAN, TYPE SM (DOWELLED)
			FOOT	SQ YD	SQ YD	SQ FT	SQ FT
41+50.00	TO	42+35.00	85	56.7	56.7	510	510
57+70.00	TO	58+50.00	80	53.3	53.3	480	480
TOTALS			165	110	110	990	990

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


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DEPARTMENT OF TRANSPORTATION**

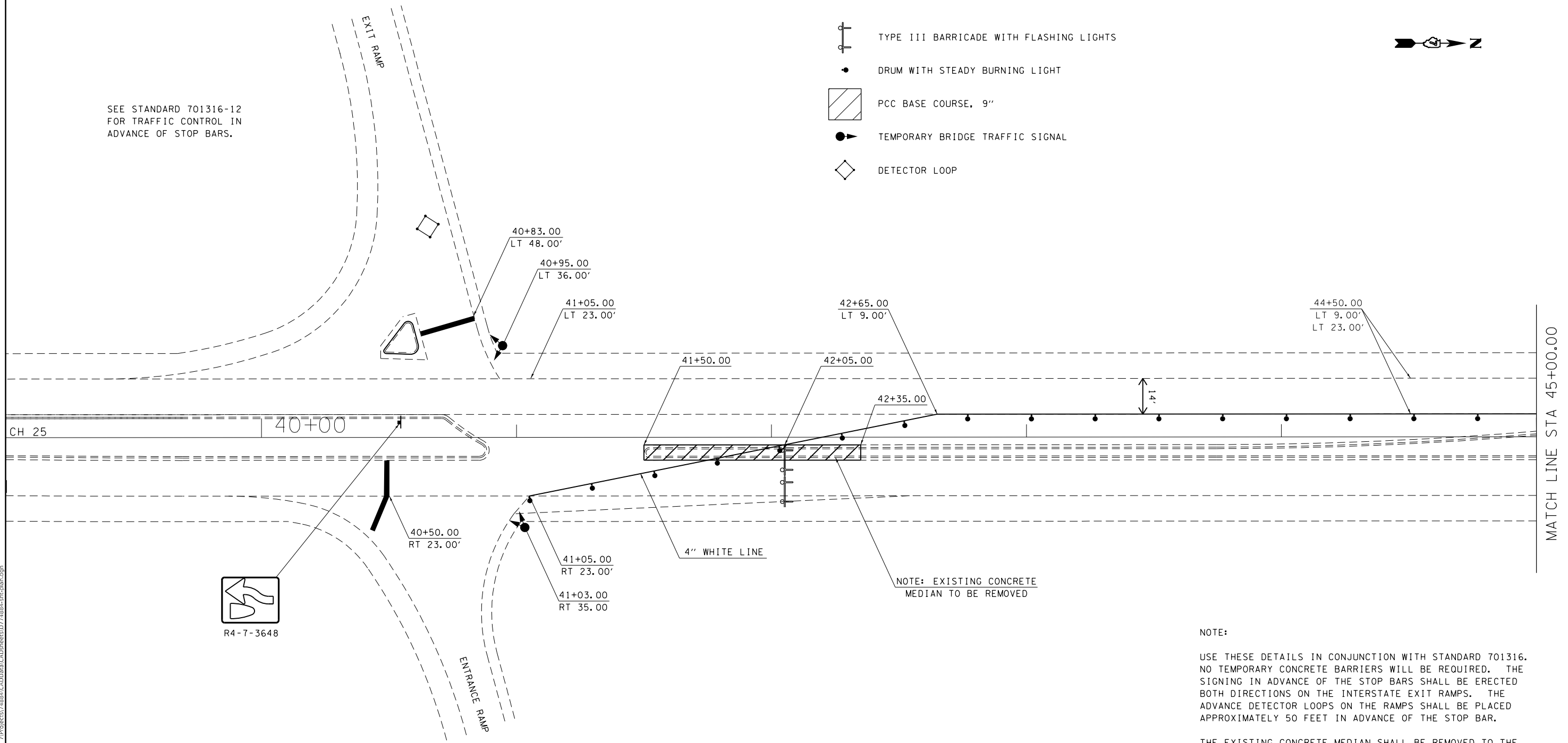
**SCHEDULE OF
QUANTITIES**

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	6
CONTRACT NO. 74884			ILLINOIS FED. AID PROJECT	

SEE STANDARD 701316-12 FOR TRAFFIC CONTROL IN ADVANCE OF STOP BARS.

-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  DRUM WITH STEADY BURNING LIGHT
-  PCC BASE COURSE, 9"
-  TEMPORARY BRIDGE TRAFFIC SIGNAL
-  DETECTOR LOOP



NOTE:
 USE THESE DETAILS IN CONJUNCTION WITH STANDARD 701316. NO TEMPORARY CONCRETE BARRIERS WILL BE REQUIRED. THE SIGNING IN ADVANCE OF THE STOP BARS SHALL BE ERECTED BOTH DIRECTIONS ON THE INTERSTATE EXIT RAMP. THE ADVANCE DETECTOR LOOPS ON THE RAMP SHALL BE PLACED APPROXIMATELY 50 FEET IN ADVANCE OF THE STOP BAR.

THE EXISTING CONCRETE MEDIAN SHALL BE REMOVED TO THE LIMITS SHOWN ON THE PLANS PRIOR TO THE INSTALLATION OF THE STAGE I TRAFFIC CONTROL. THIS AREA SHALL BE FILLED WITH PCC BASE COURSE AS SHOWN ABOVE, CONSTRUCTED LEVEL WITH THE ADJACENT PAVEMENT. AT THE CONCLUSION OF THE BRIDGE DECK REPAIR OPERATIONS, CONCRETE MEDIAN, TYPE SM (DOWELLED) SHALL BE CONSTRUCTED TO REPLACE THE MEDIAN. MEDIAN WORK SHALL BE PERFORMED UNDER STANDARD 701201.

TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	1 EACH
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	1 L SUM
TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	1 L SUM
TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	2 EACH
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	1 L SUM

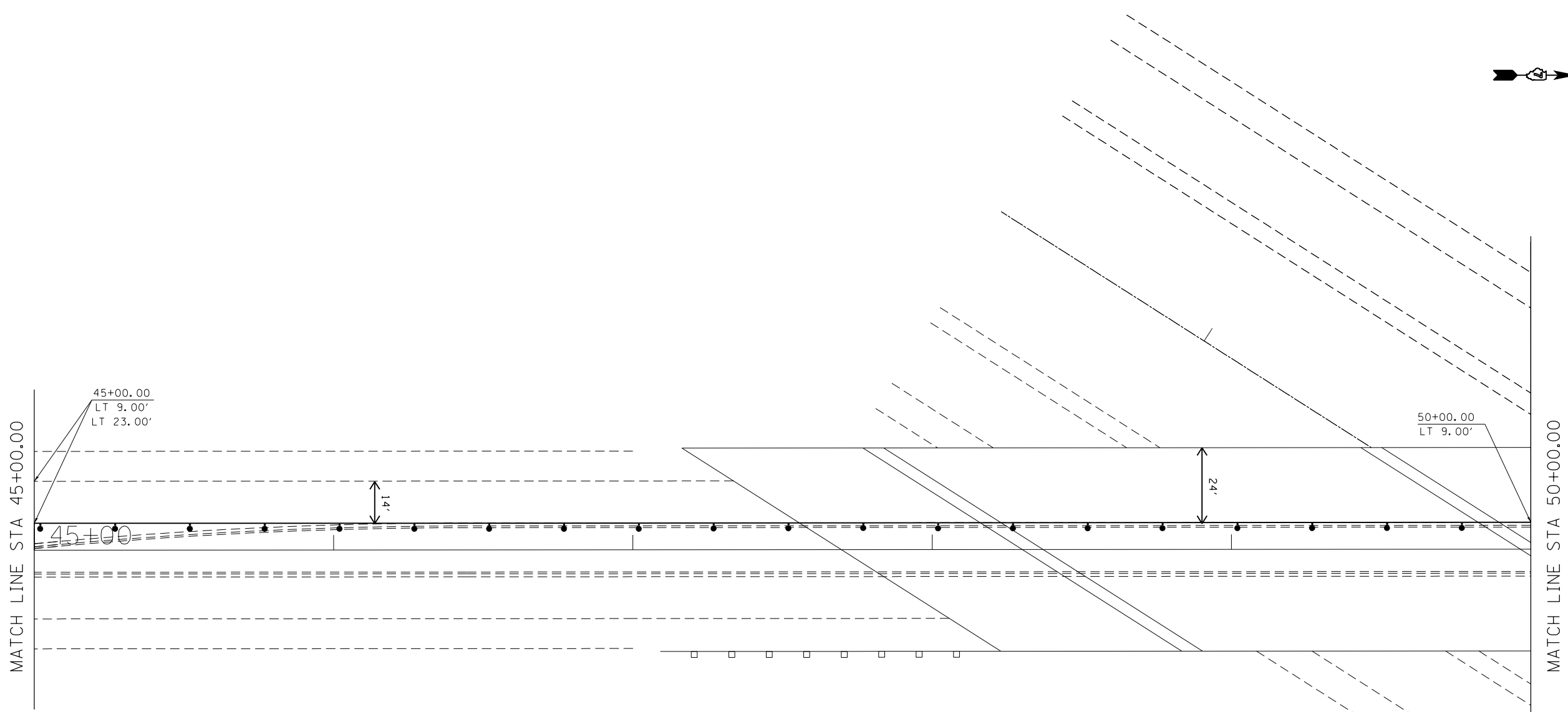
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


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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL			
S.N. 058-0091			
SCALE:	SHEET	OF 8 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	7
CONTRACT NO. 74884				
ILLINOIS FED. AID PROJECT				



-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  DRUM WITH STEADY BURNING LIGHT
-  PCC BASE COURSE, 9"
-  TEMPORARY BRIDGE TRAFFIC SIGNAL
-  DETECTOR LOOP

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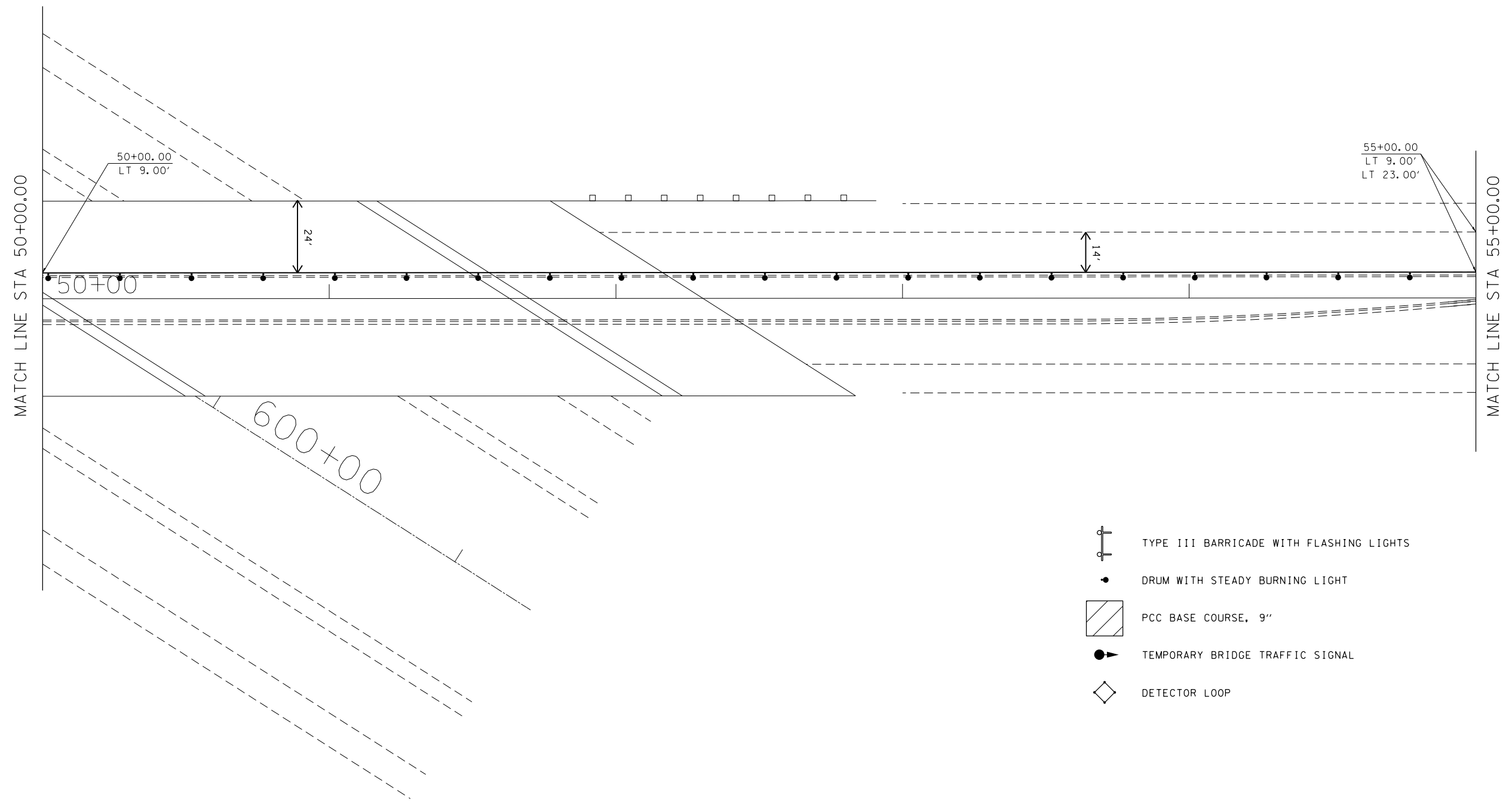
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


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I TRAFFIC CONTROL S.N. 058-0091			
SCALE:	SHEET 2	OF 8 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	8
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 74884



-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  DRUM WITH STEADY BURNING LIGHT
-  PCC BASE COURSE, 9"
-  TEMPORARY BRIDGE TRAFFIC SIGNAL
-  DETECTOR LOOP

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STATE OF ILLINOIS
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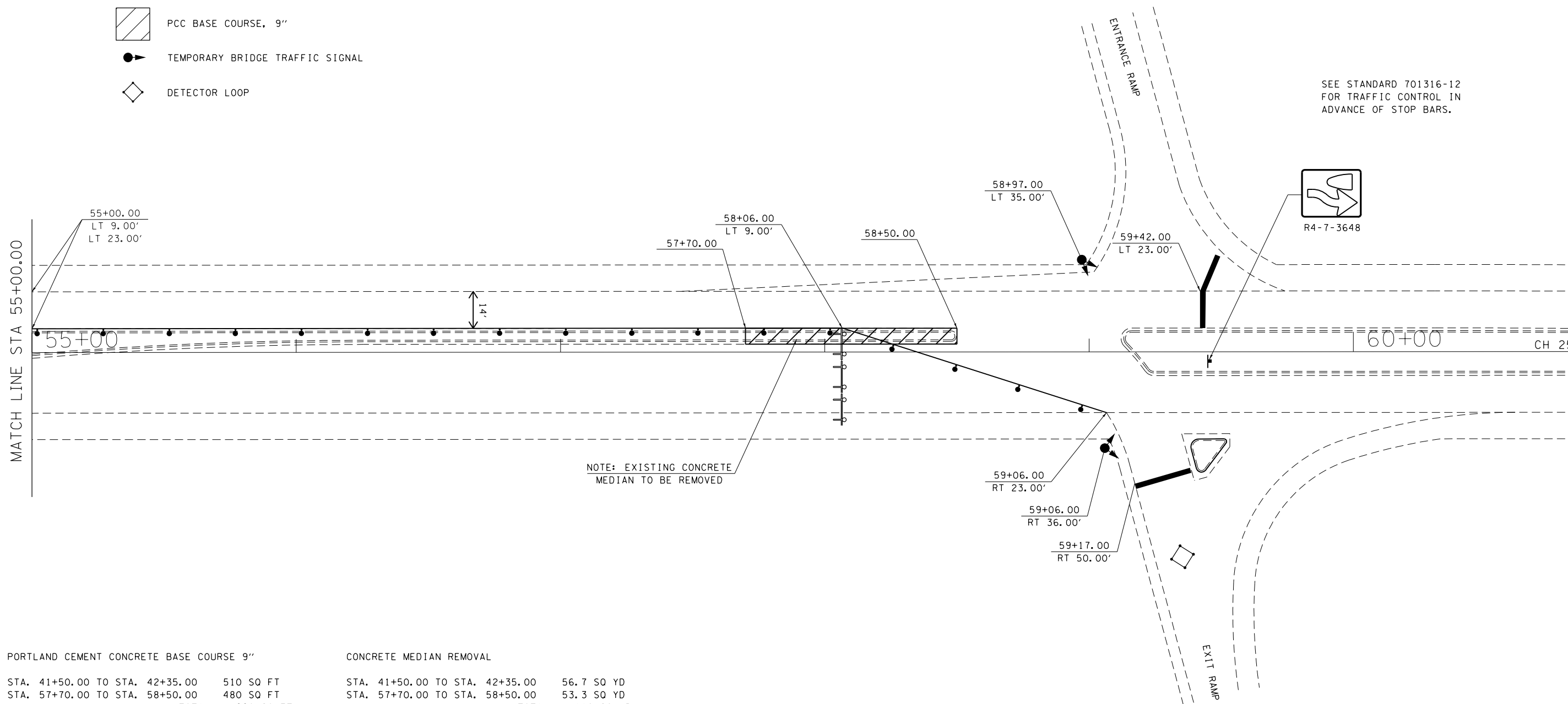
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74884	



-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  DRUM WITH STEADY BURNING LIGHT
-  PCC BASE COURSE, 9"
-  TEMPORARY BRIDGE TRAFFIC SIGNAL
-  DETECTOR LOOP

SEE STANDARD 701316-12
FOR TRAFFIC CONTROL IN
ADVANCE OF STOP BARS.



NOTE: EXISTING CONCRETE
MEDIAN TO BE REMOVED

PORTLAND CEMENT CONCRETE BASE COURSE 9"	
STA. 41+50.00 TO STA. 42+35.00	510 SQ FT
STA. 57+70.00 TO STA. 58+50.00	480 SQ FT
TOTAL	990 SQ FT

CONCRETE MEDIAN REMOVAL	
STA. 41+50.00 TO STA. 42+35.00	56.7 SQ YD
STA. 57+70.00 TO STA. 58+50.00	53.3 SQ YD
TOTAL	110 SQ YD

WELDED WIRE REINFORCEMENT	
STA. 41+50.00 TO STA. 42+35.00	510 SQ FT
STA. 57+70.00 TO STA. 58+50.00	480 SQ FT
TOTAL	990 SQ FT

CONCRETE MEDIAN, TYPE SM (DOWELLED)	
STA. 41+50.00 TO STA. 42+35.00	56.7 SQ YD
STA. 57+70.00 TO STA. 58+50.00	53.3 SQ YD
TOTAL	110 SQ YD

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DEPARTMENT OF TRANSPORTATION**






**STAGE I TRAFFIC CONTROL
S.N. 058-0091**

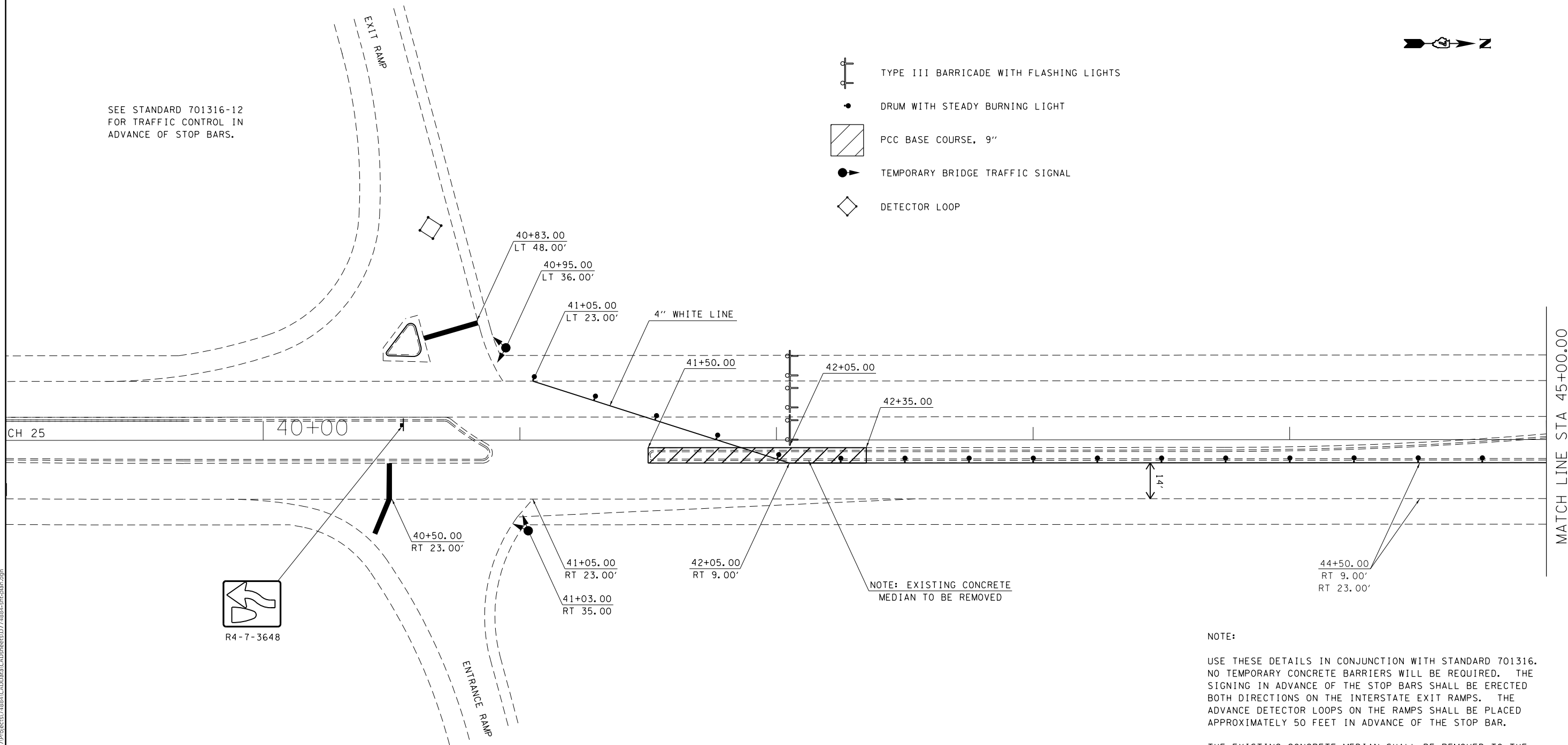
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	10
CONTRACT NO. 74884			ILLINOIS FED. AID PROJECT	

SEE STANDARD 701316-12 FOR TRAFFIC CONTROL IN ADVANCE OF STOP BARS.



-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  DRUM WITH STEADY BURNING LIGHT
-  PCC BASE COURSE, 9"
-  TEMPORARY BRIDGE TRAFFIC SIGNAL
-  DETECTOR LOOP



NOTE:
 USE THESE DETAILS IN CONJUNCTION WITH STANDARD 701316. NO TEMPORARY CONCRETE BARRIERS WILL BE REQUIRED. THE SIGNING IN ADVANCE OF THE STOP BARS SHALL BE ERECTED BOTH DIRECTIONS ON THE INTERSTATE EXIT RAMP. THE ADVANCE DETECTOR LOOPS ON THE RAMP SHALL BE PLACED APPROXIMATELY 50 FEET IN ADVANCE OF THE STOP BAR.

THE EXISTING CONCRETE MEDIAN SHALL BE REMOVED TO THE LIMITS SHOWN ON THE PLANS PRIOR TO THE INSTALLATION OF THE STAGE I TRAFFIC CONTROL. THIS AREA SHALL BE FILLED WITH PCC BASE COURSE AS SHOWN ABOVE, CONSTRUCTED LEVEL WITH THE ADJACENT PAVEMENT. AT THE CONCLUSION OF THE BRIDGE DECK REPAIR OPERATIONS, CONCRETE MEDIAN, TYPE SM (DOWELLED) SHALL BE CONSTRUCTED TO REPLACE THE MEDIAN. MEDIAN WORK SHALL BE PERFORMED UNDER STANDARD 701201.

TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	1 EACH
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	1 L SUM
TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	1 L SUM
TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	2 EACH
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	1 L SUM

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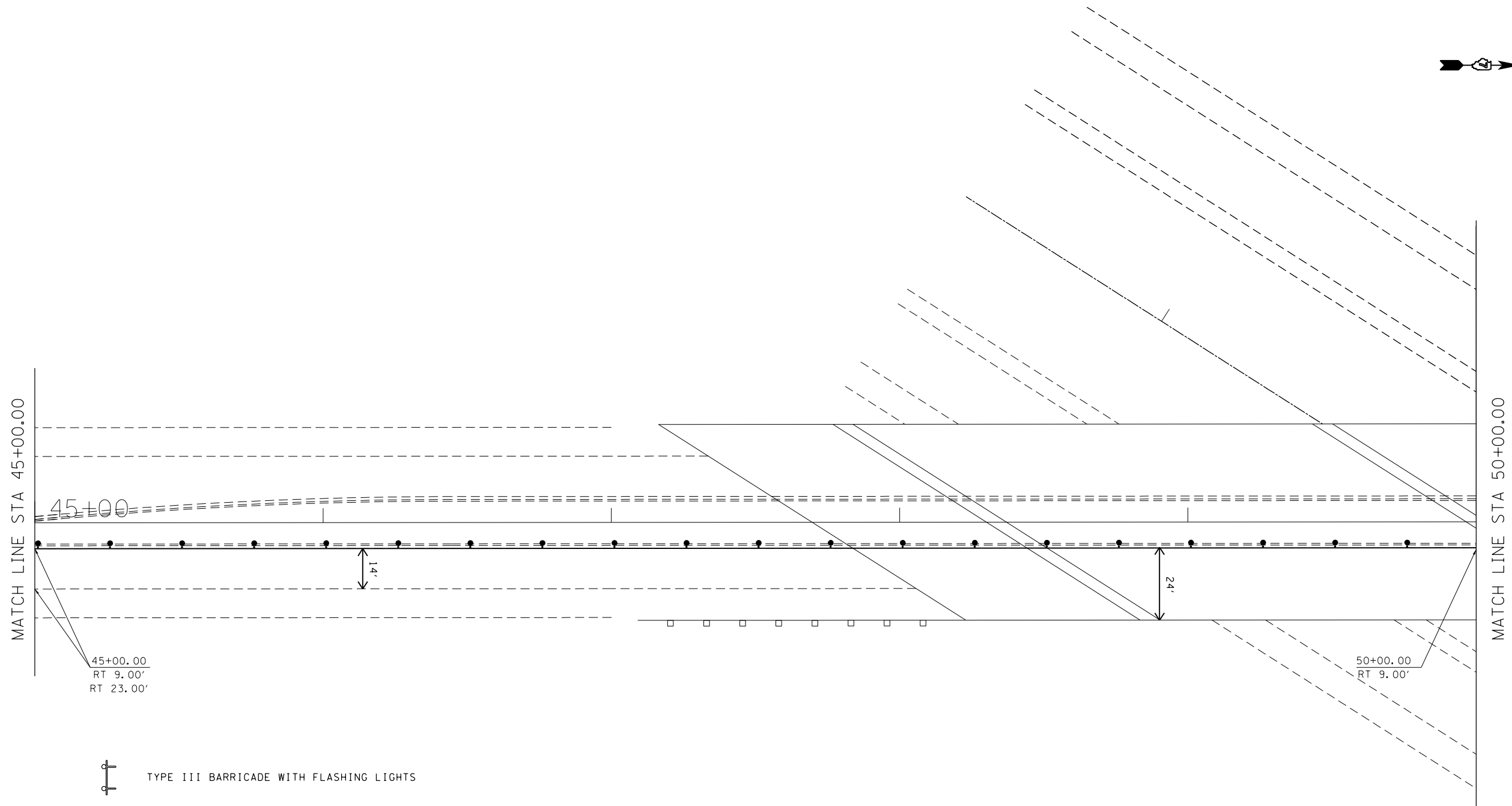
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PLOT DATE = 1/3/2019	DATE -	REVISED -






**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE II TRAFFIC CONTROL
 S.N. 058-0091**

SCALE: SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	11
CONTRACT NO. 74884			ILLINOIS FED. AID PROJECT	



-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  DRUM WITH STEADY BURNING LIGHT
-  PCC BASE COURSE, 9"
-  TEMPORARY BRIDGE TRAFFIC SIGNAL
-  DETECTOR LOOP

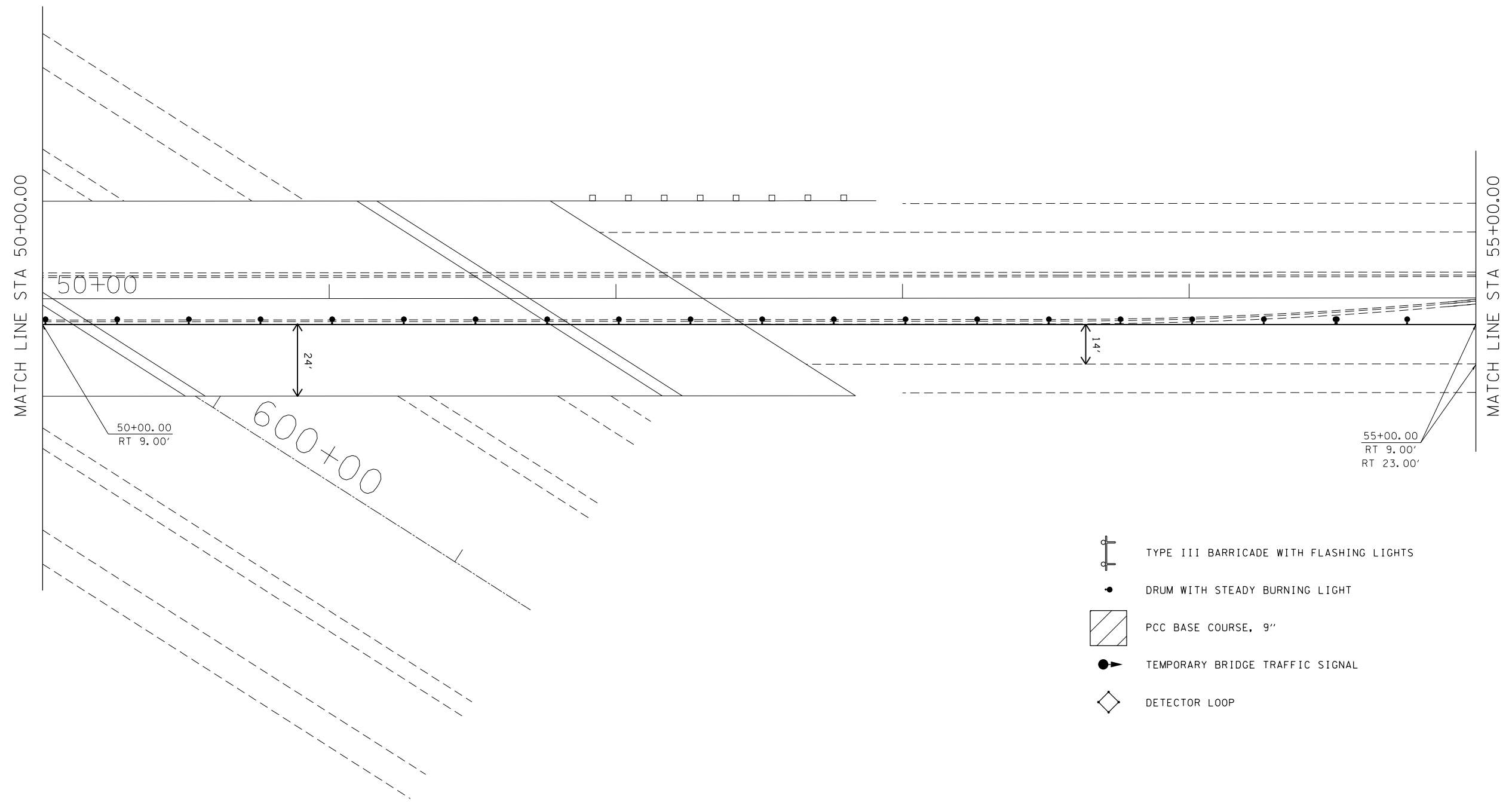
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




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	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/3/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II TRAFFIC CONTROL S.N. 058-0091			
SCALE:	SHEET 6	OF 8 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	12
CONTRACT NO. 74884				
ILLINOIS FED. AID PROJECT				



-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  DRUM WITH STEADY BURNING LIGHT
-  PCC BASE COURSE, 9"
-  TEMPORARY BRIDGE TRAFFIC SIGNAL
-  DETECTOR LOOP

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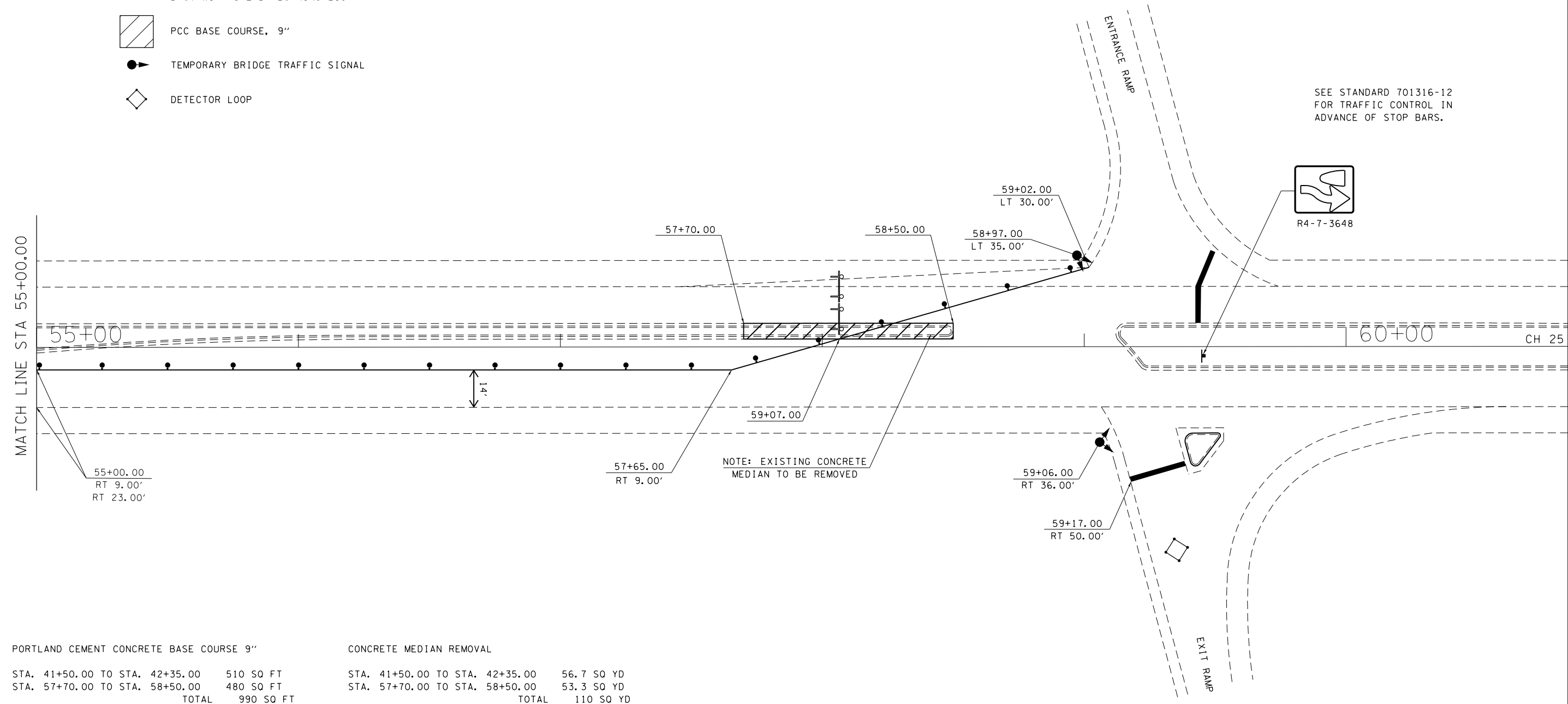
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II TRAFFIC CONTROL S.N. 058-0091			
SCALE:	SHEET 7	OF 8 SHEETS	STA. TO STA.

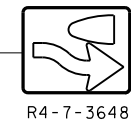
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74884	



-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  DRUM WITH STEADY BURNING LIGHT
-  PCC BASE COURSE, 9"
-  TEMPORARY BRIDGE TRAFFIC SIGNAL
-  DETECTOR LOOP



SEE STANDARD 701316-12
FOR TRAFFIC CONTROL IN
ADVANCE OF STOP BARS.



NOTE: EXISTING CONCRETE
MEDIAN TO BE REMOVED

PORTLAND CEMENT CONCRETE BASE COURSE 9"		CONCRETE MEDIAN REMOVAL	
STA. 41+50.00 TO STA. 42+35.00	510 SQ FT	STA. 41+50.00 TO STA. 42+35.00	56.7 SQ YD
STA. 57+70.00 TO STA. 58+50.00	480 SQ FT	STA. 57+70.00 TO STA. 58+50.00	53.3 SQ YD
TOTAL	990 SQ FT	TOTAL	110 SQ YD
WELDED WIRE REINFORCEMENT		CONCRETE MEDIAN, TYPE SM (DOWELLED)	
STA. 41+50.00 TO STA. 42+35.00	510 SQ FT	STA. 41+50.00 TO STA. 42+35.00	56.7 SQ YD
STA. 57+70.00 TO STA. 58+50.00	480 SQ FT	STA. 57+70.00 TO STA. 58+50.00	53.3 SQ YD
TOTAL	990 SQ FT	TOTAL	110 SQ YD

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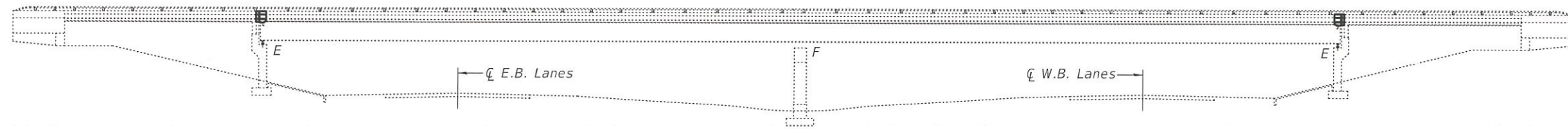
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PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 1/3/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

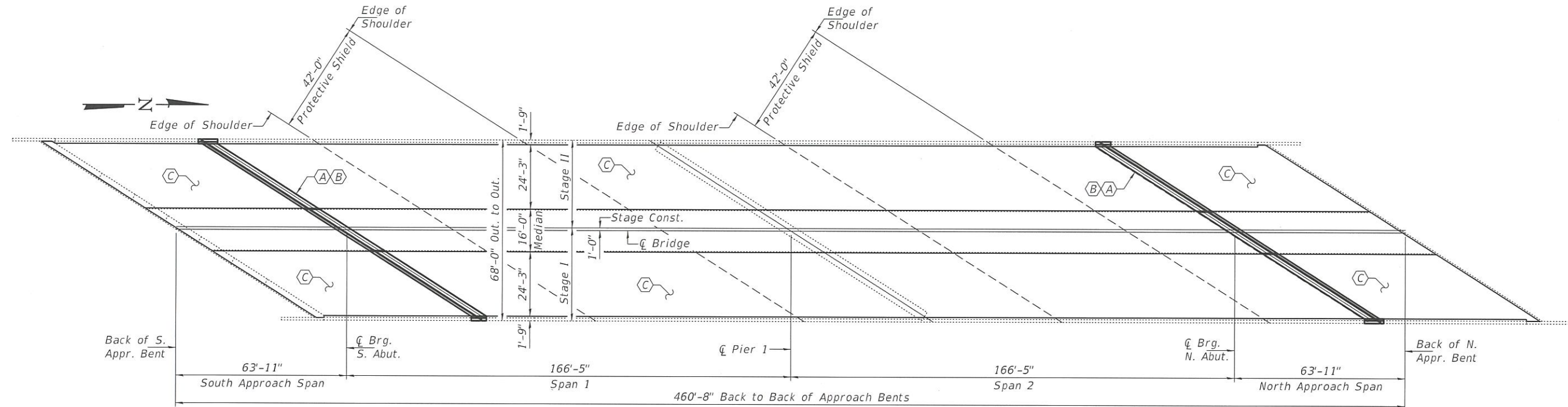
**STAGE II TRAFFIC CONTROL
S.N. 058-0091**

SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74884	



ELEVATION



PLAN

- (A) - Remove Existing Neoprene Exp. Jt. and Install Preformed Strip Seal.
- (B) - Remove Existing Abutment Bearings and Install new Elastomeric Bearings, Type I
- (C) - Remove & Replace Existing HMA Surface & Waterproofing Membrane System.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

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.

Removal and reinstallation of the handrail sections and support posts at both abutments will be necessary for construction of the expansion joints. The existing handrail sections and support posts shall be reused. New bolts, shim plates, and post support anchor assemblies, as detailed in the plans, are to be provided and installed for the replacement of the handrail sections. This work and all materials shall be included in the contract unit price for Concrete Superstructure.

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

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

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

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

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

Full depth deck slab repairs performed in the exterior bays of the bridge deck (between the parapet walls and the first interior beams) shall be limited to individual lengths no greater than 10'. In these portions of the deck, repair areas longer than 10' shall be divided into segments not greater than 10' in length, and the segments shall be poured in alternating sequence. Subsequent segments repaired in sequence shall not be removed until 72 hours shall have elapsed from the end of the previous, adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 650 psi.

TOTAL BILL OF MATERIAL

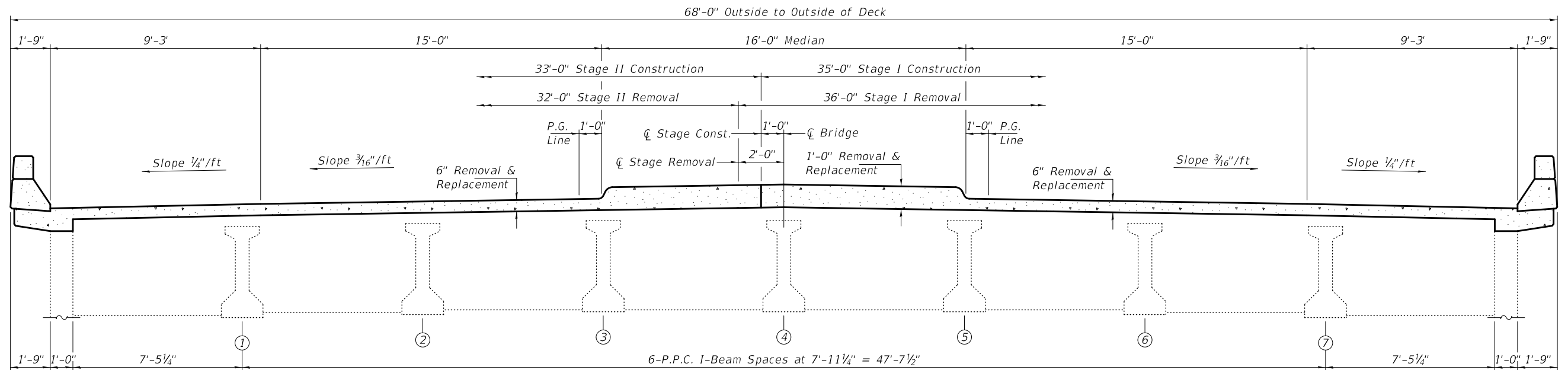
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	39.3
Concrete Superstructure	Cu. Yd.	38.9
Reinforcement Bars, Epoxy Coated	Pound	6630
Bar Splicers	Each	38
Hot-Mix Asphalt Surface Removal, 1 1/2"	Sq. Yd.	2398
Hot-Mix Asphalt Surface Course, Mix "C", N70	Ton	204
Waterproofing Membrane System	Sq. Yd.	2418
Preformed Joint Strip Seal	Foot	244
Protective Coat	Sq. Yd.	119
Jack & Remove Existing Bearings	Each	18
Elastomeric Bearing Assembly, Type I	Each	18
Furnishing & Erecting Structural Steel	Pound	4790
Anchor Bolts, 1"Ø	Each	54
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	120
Deck Slab Repair (Partial)	Sq. Yd.	130
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	9
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	62
Protective Shield	Sq. Yd.	911

* On new concrete areas only.

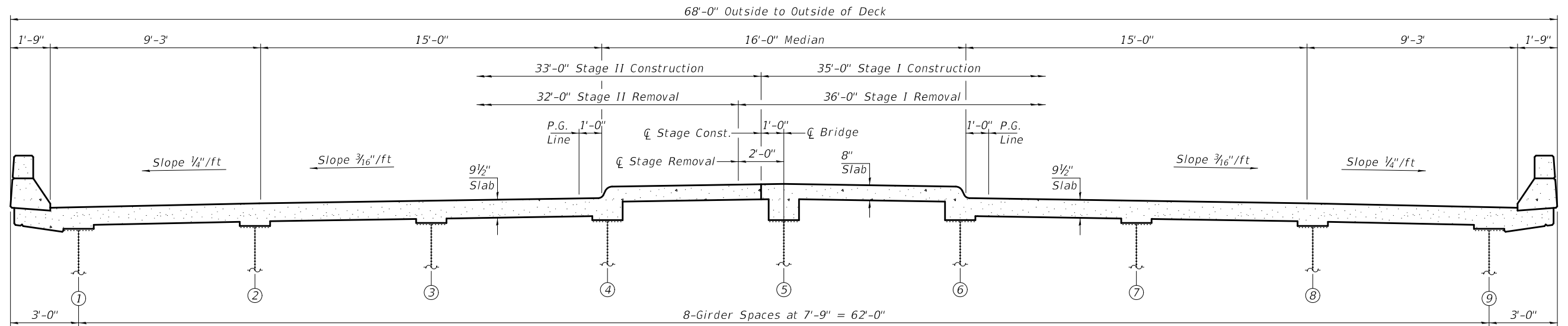


EXPIRES 11-30-2020

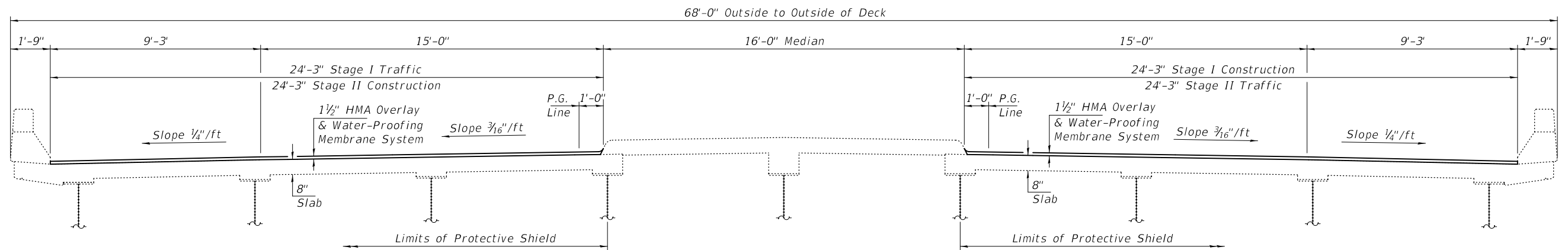
DESIGNED: <i>[Signature]</i>	EXAMINED: <i>[Signature]</i>	DATE - JANUARY 22, 2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION F.A.S. ROUTE 544 OVER F.A.I. ROUTE 72 SN 058-0091	F.A.I. SECTION COUNTY TOTAL SHEETS SHEET NO.
CHECKED: <i>[Signature]</i>	PASSED: <i>[Signature]</i>	REVISOR: -			72 D7 BRIDGE REPAIRS 2019-1 MACON 26 15
DRAWN: <i>[Signature]</i>	REVISOR: -	CONTRACT NO. 74884			
CHECKED: <i>[Signature]</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR: -	SHEET NO. 1 OF 11 SHEETS		ILLINOIS FED. AID PROJECT



CROSS SECTION THRU APPROACH AT ABUTMENT
(Looking North)



CROSS SECTION THRU BRIDGE DECK AT ABUTMENT
(Looking North)



CROSS SECTION THRU BRIDGE DECK AT MID-SPAN
(Looking North)

DESIGNED - JOV
CHECKED - JSB
DRAWN - STEFFEN
CHECKED - JOV JSB

EXAMINED
PASSED

Timothy A. Daulton
ENGINEER OF STRUCTURAL SERVICES

Carl R. Rieger
ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 22, 2019

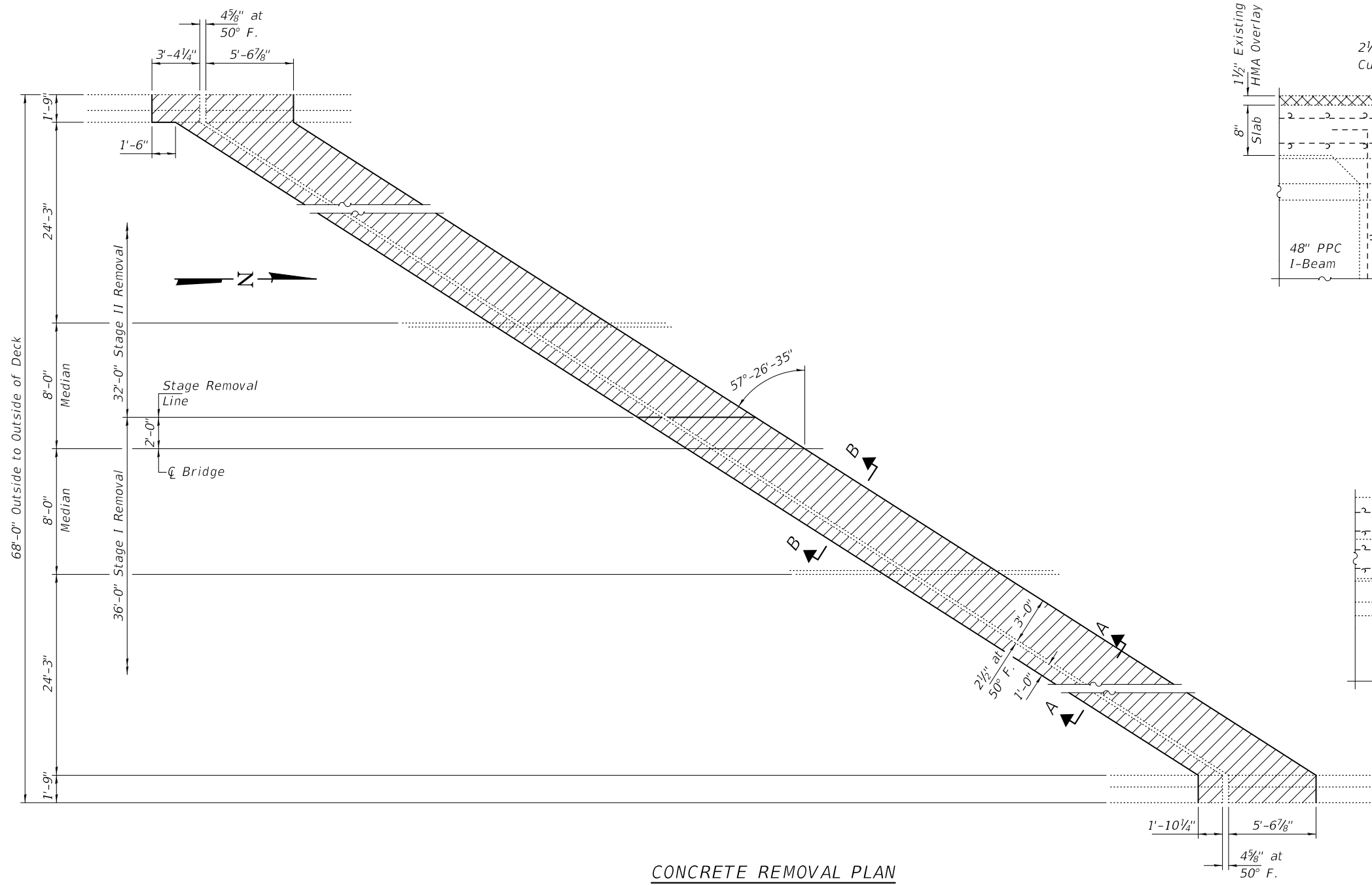
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS
SN 058-0091

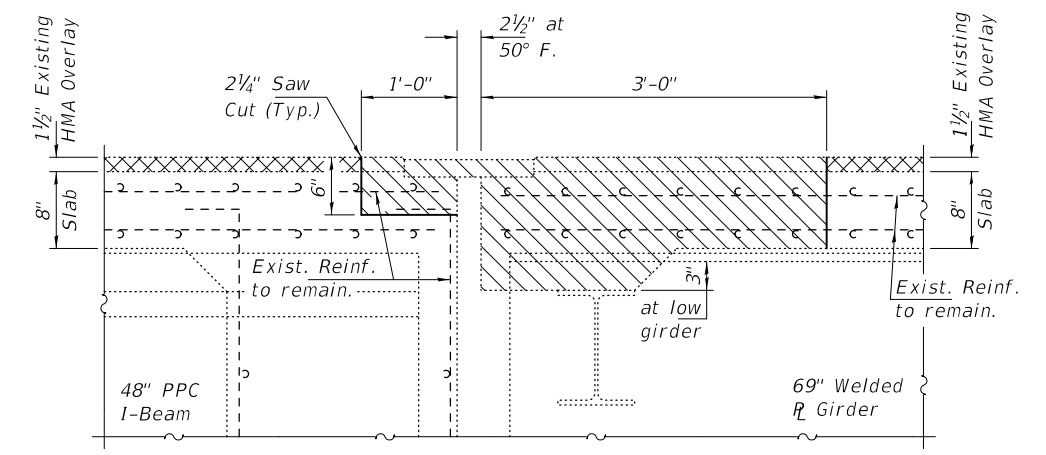
SHEET NO. 2 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	16
CONTRACT NO. 74884				
ILLINOIS FED. AID PROJECT				

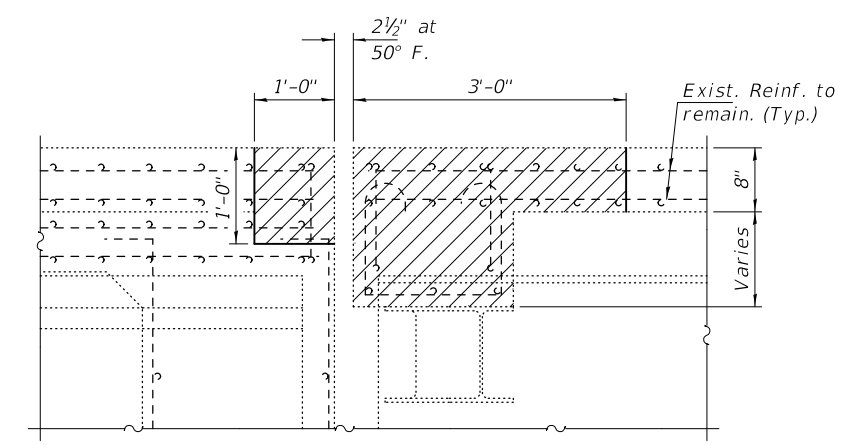


CONCRETE REMOVAL PLAN
(S. Abut. shown, N. Abut. similar by rotation.)

Notes:
Hatched areas indicate Concrete Removal.
Cross Hatched areas indicate HMA Surface Removal.
For parapet & median details see sheet 5 of 11.



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



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

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	39.3

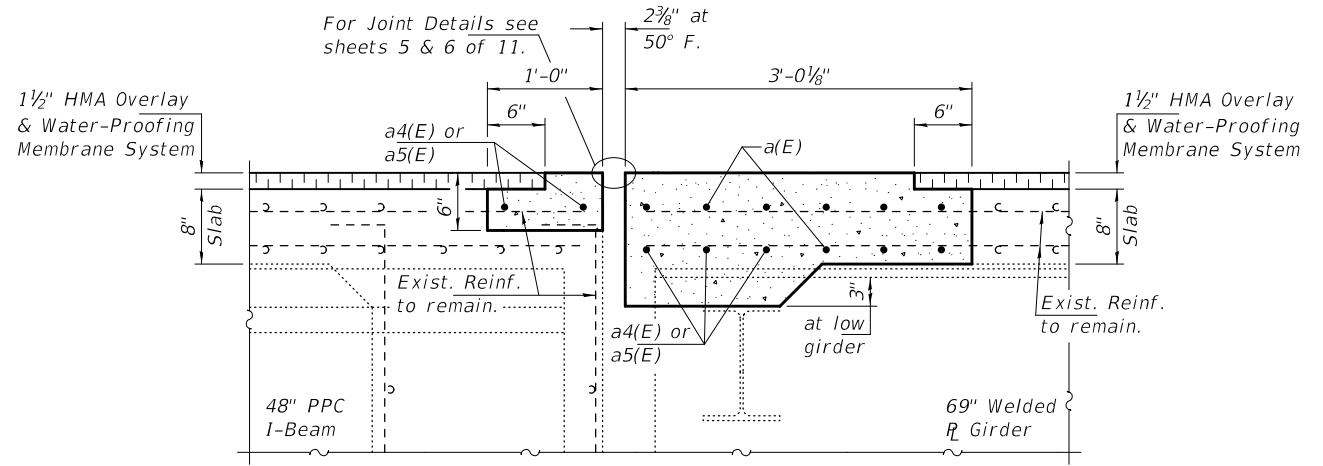
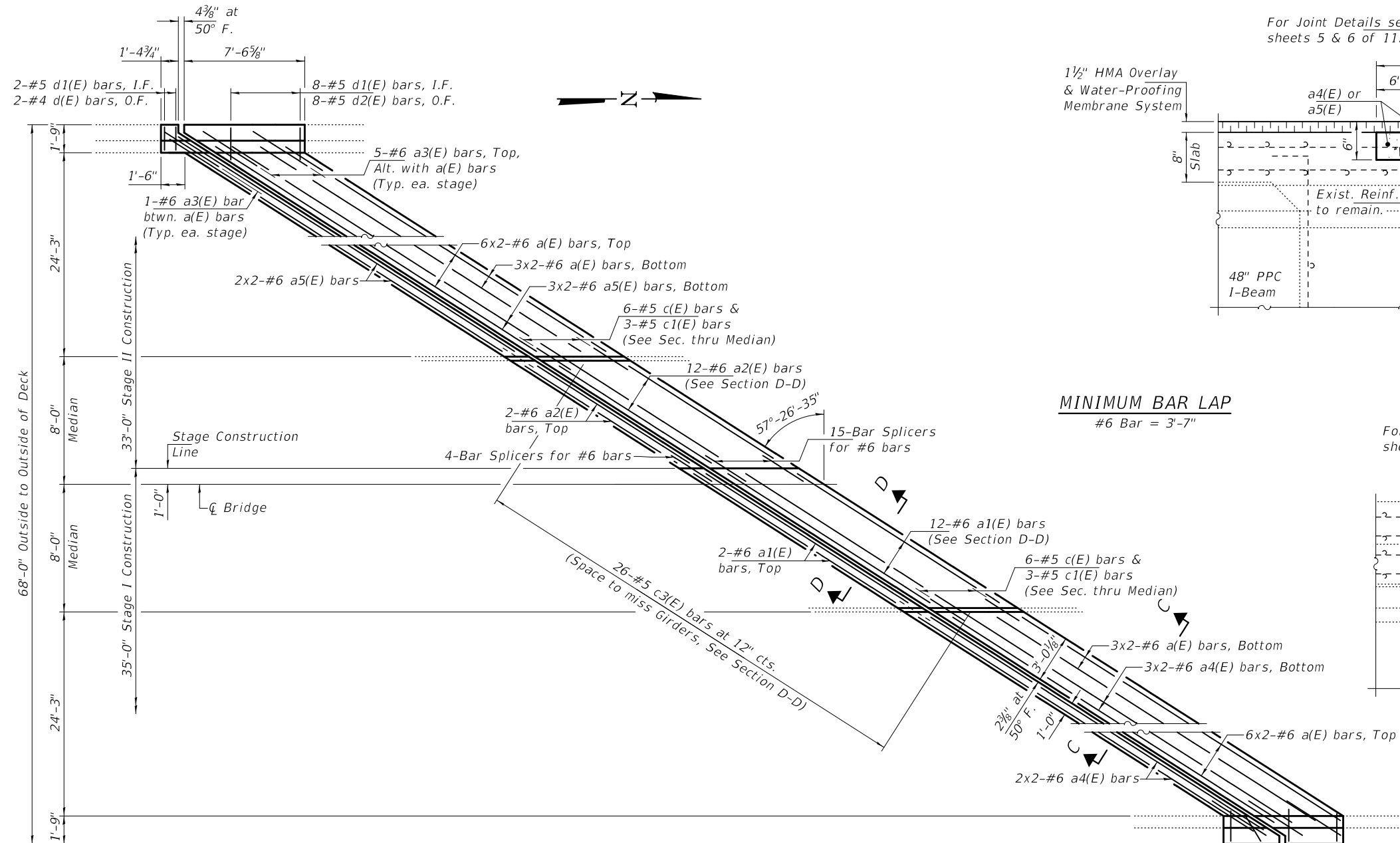
DESIGNED - JOV	EXAMINED - <i>Timothy A. Andujar</i>	DATE - JANUARY 22, 2019
CHECKED - JSB	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - <i>Carl Ringer</i>	REVISED -
CHECKED - JOV JSB	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

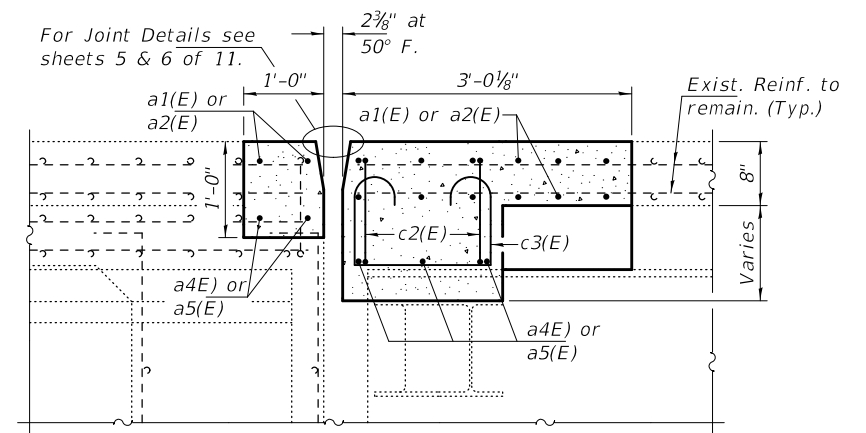
JOINT REMOVAL DETAILS
SN 058-0091

SHEET NO. 3 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	17
CONTRACT NO. 74884				
ILLINOIS FED. AID PROJECT				



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

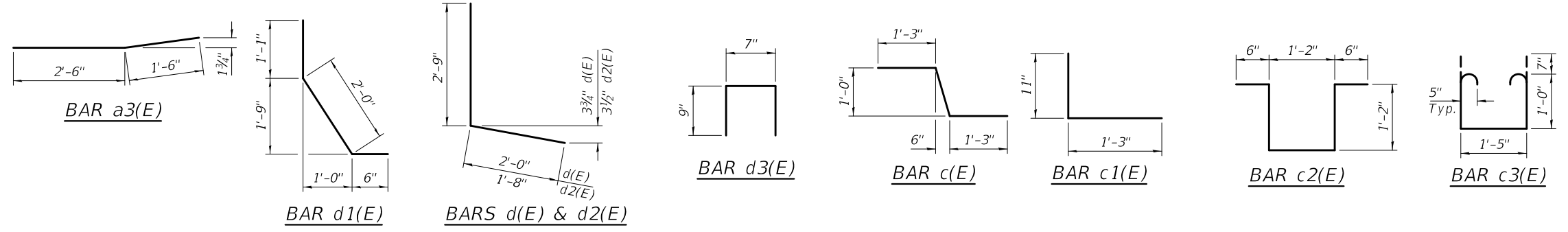


SECTION D-D
(Dims. at Rt. L's)

MINIMUM BAR LAP
#6 Bar = 3'-7"

Notes:
For Parapet & Median Details
see sheet 5 of 11.

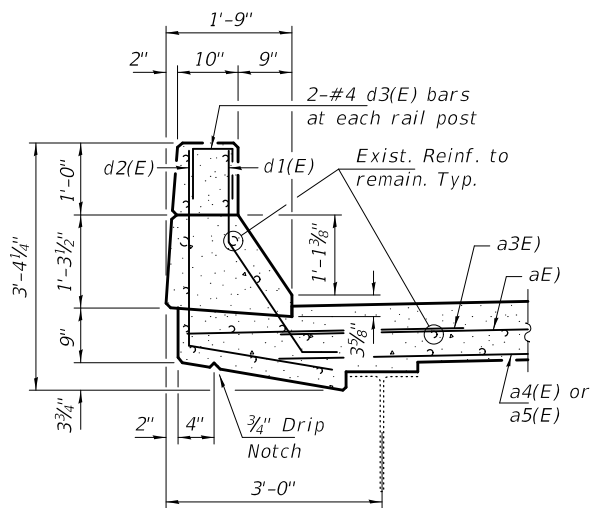
CONCRETE REPLACEMENT PLAN
(S. Abut. shown, N. Abut. similar by rotation.)



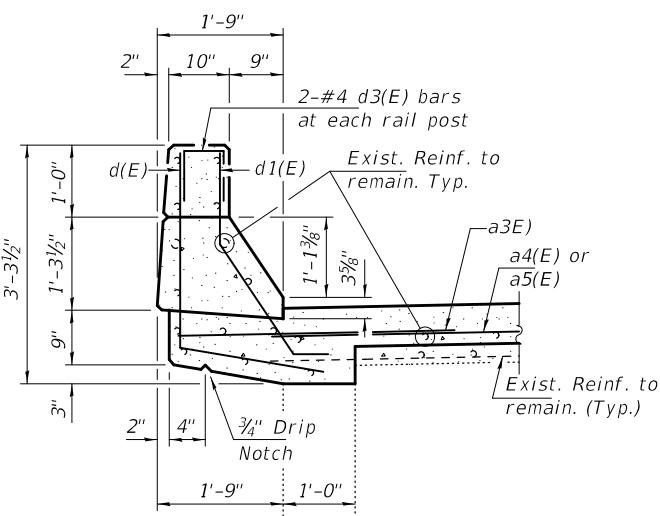
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	72	#6	24'-8"	—
a1(E)	28	#6	15'-7"	—
a2(E)	28	#6	11'-11"	—
a3(E)	24	#6	4'-0"	—
a4(E)	20	#6	33'-4"	—
a5(E)	20	#6	31'-6"	—
c(E)	24	#5	3'-8"	⌋
c1(E)	12	#5	2'-2"	⌋
c2(E)	12	#5	4'-6"	⌋
c3(E)	52	#5	4'-7"	⌋
d(E)	12	#4	4'-9"	⌋
d1(E)	36	#5	3'-7"	⌋
d2(E)	24	#5	4'-5"	⌋
d3(E)	8	#4	2'-1"	⌋
Concrete Superstructure		Cu. Yd.	38.9	
Bar Splicers		Each	38	
Reinforcement Bars, Epoxy Coated		Pound	6630	

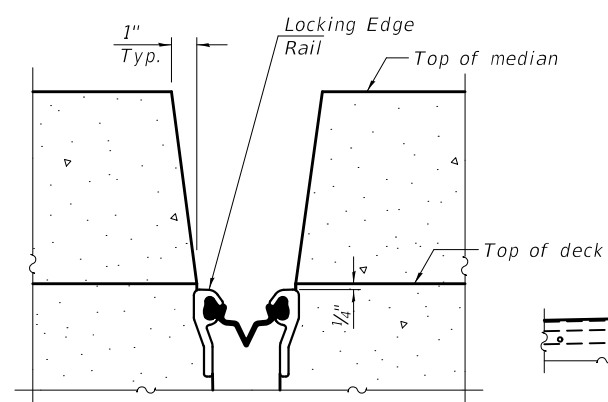
Bars indicated thus 6 x 2-#6 etc. indicates 4 lines of bars with 2 lengths per line.



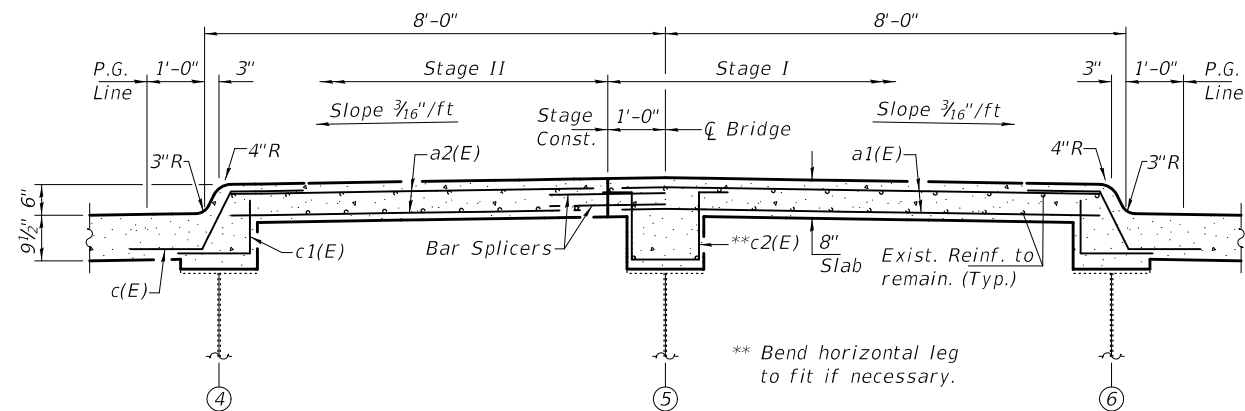
TYPICAL BRIDGE PARAPET SECTION



TYPICAL APPROACH PARAPET SECTION

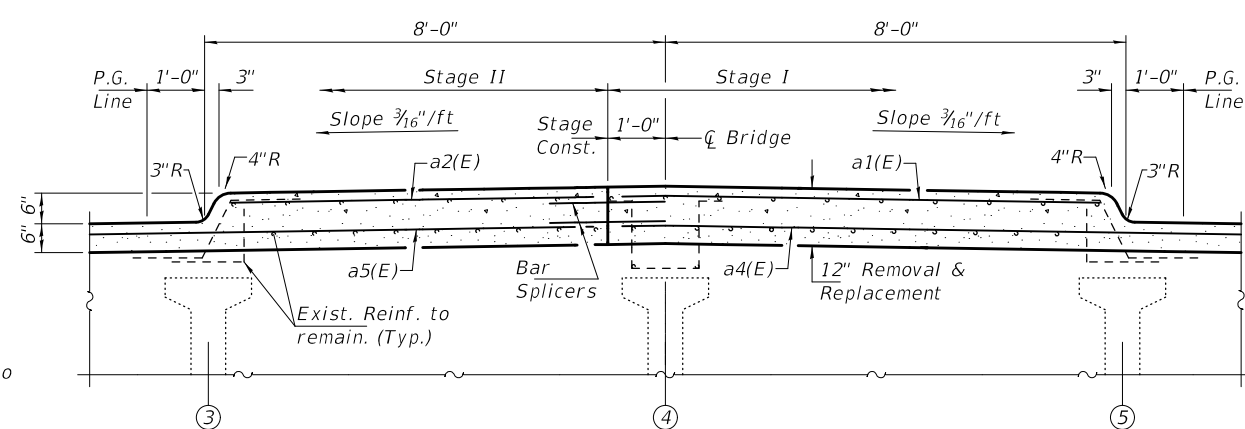


SECTION E-E
(Dims. at Rt. L's)



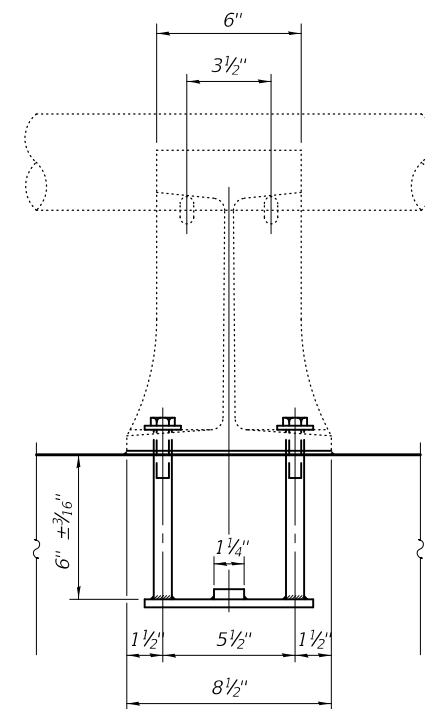
TYPICAL BRIDGE MEDIAN SECTION

(Looking North)
Bridge Deck reinforcement not shown for clarity.

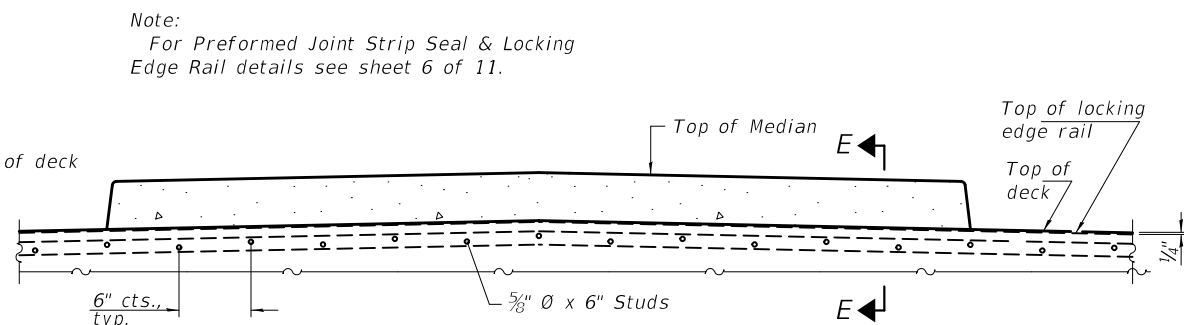


TYPICAL BRIDGE MEDIAN SECTION

(Looking North)

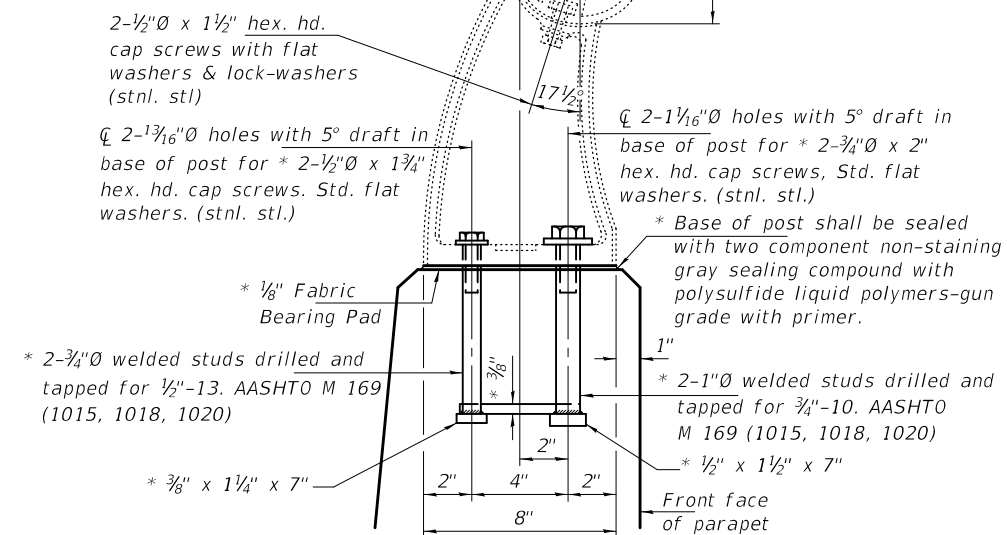


ELEVATION AT RAIL POST



ELEVATION AT MEDIAN SHOWING STRIP SEAL

For skew > 30°, chamfer acute corners 2" similar to sidewalk.



RAIL POST DETAILS

* New Rail Post anchorage devices will be required at each location where posts are connected to new construction. Cost included with Concrete Superstructure.

DESIGNED - JOV
CHECKED - JSB
DRAWN - STEFFEN
CHECKED - JOV JSB

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

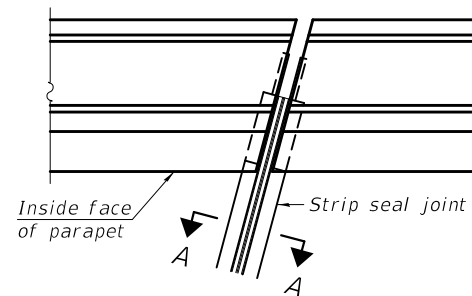
DATE - JANUARY 22, 2019
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 058-0091

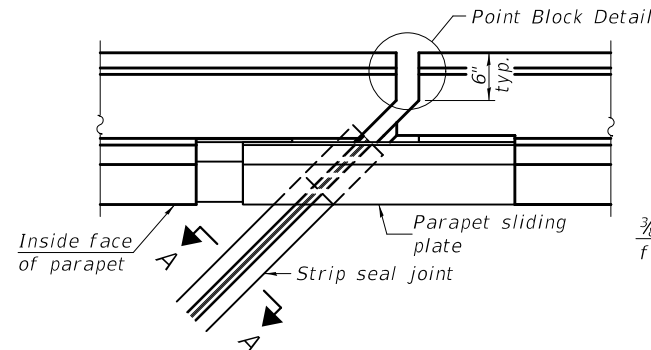
SHEET NO. 5 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	19
CONTRACT NO. 74884				
ILLINOIS FED. AID PROJECT				

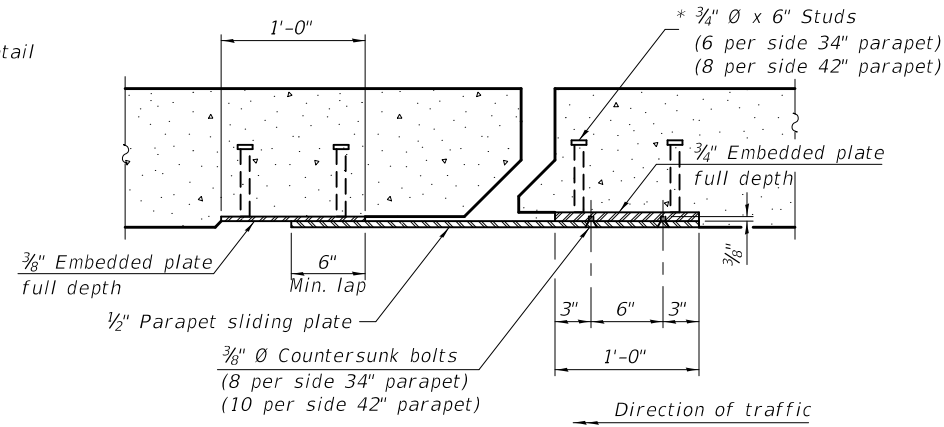


FOR SKEWS $\leq 30^\circ$

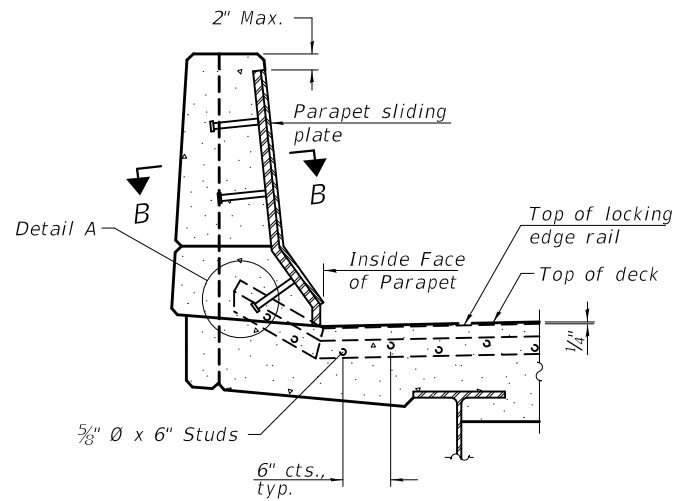
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

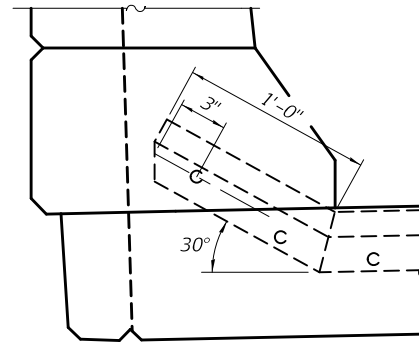


SECTION B-B

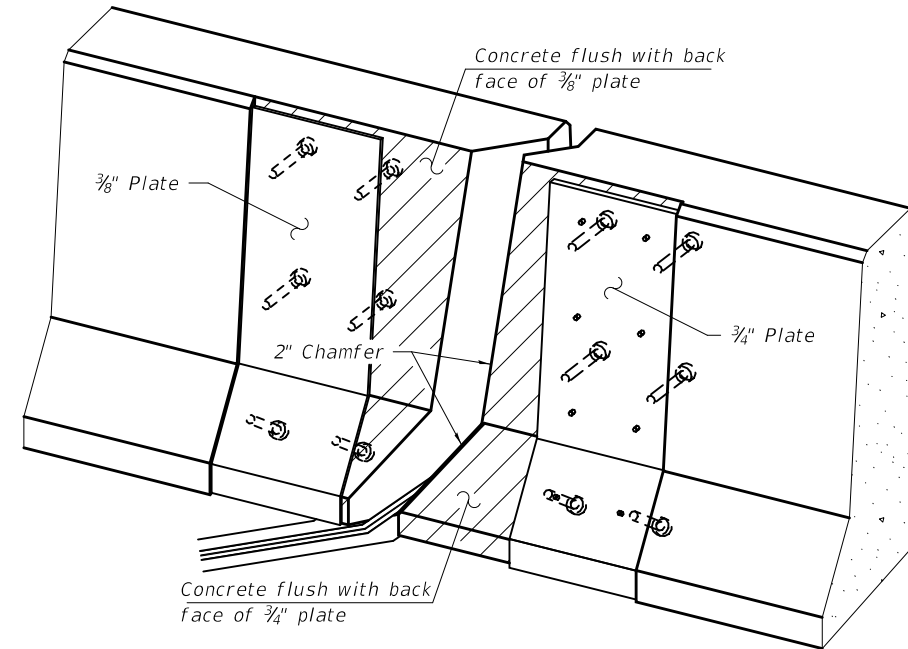


ELEVATION AT PARAPET

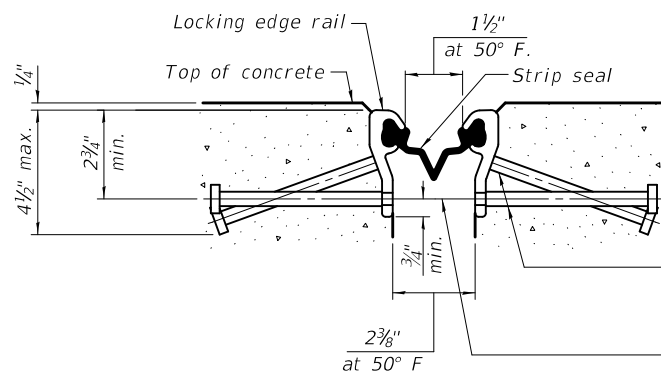
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



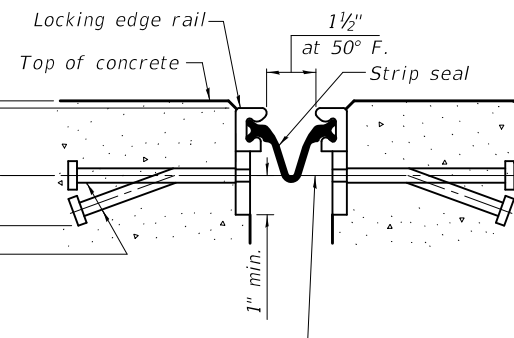
SHOWING ROLLED RAIL JOINT

* $3/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

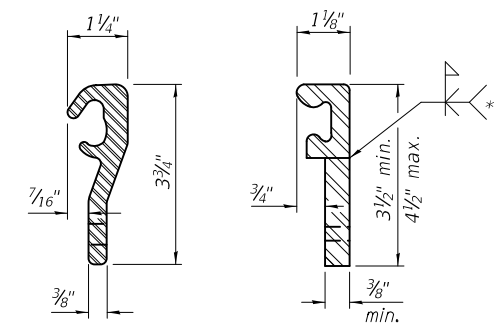
$3/8$ " ϕ threaded rods in $7/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

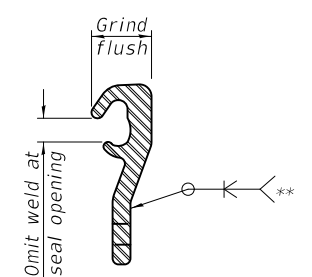


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	244

EJ-SS-S

8-11-17

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

 ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 22, 2019
 ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
	REVISED -

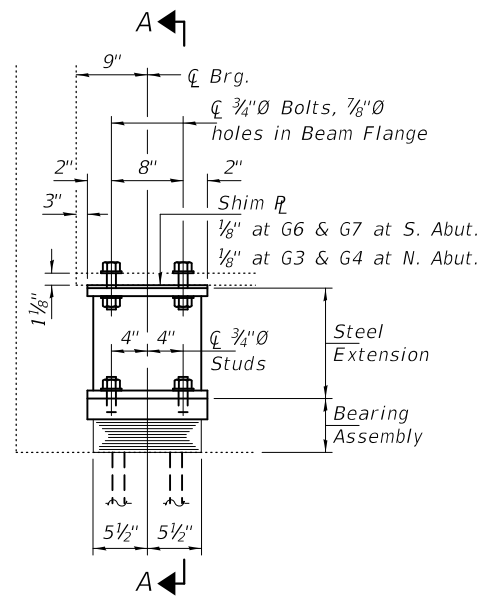
DATE - JANUARY 22, 2019
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS
SN 058-0091

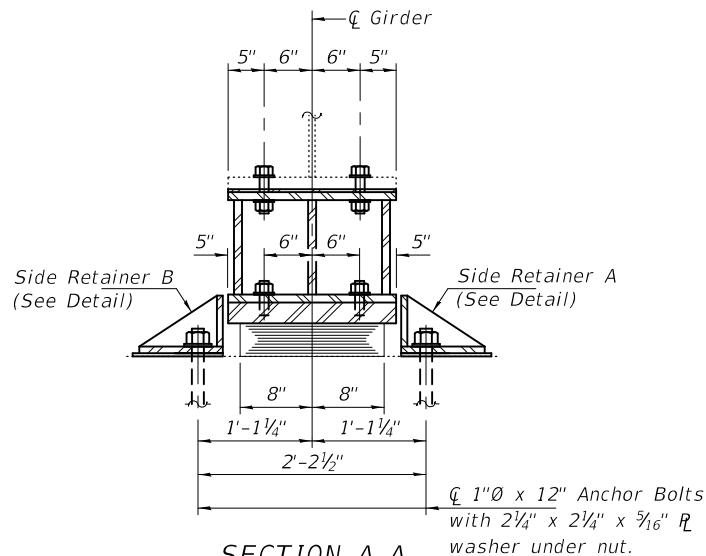
SHEET NO. 6 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	20
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74884	



ELEVATION AT ABUTMENT

TYPE I ELASTOMERIC EXP. BRG.



SECTION A-A

BEAM REACTIONS

R ϕ	(K)	84.2
R \downarrow	(K)	52.6
Imp.	(K)	9.0
R (Total)	(K)	145.8

Notes:

Cross Frame removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

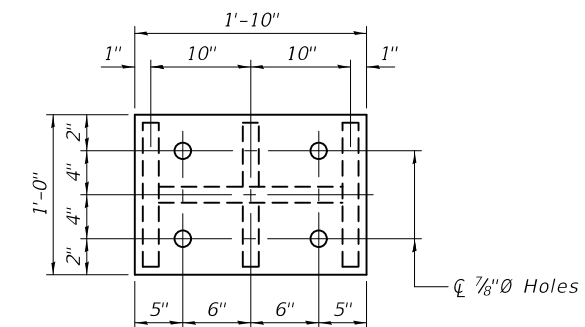
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 87 Tons.

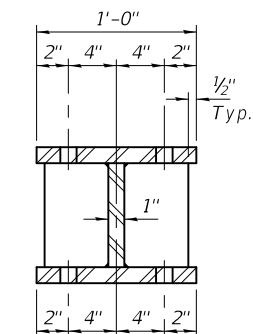
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

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

Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

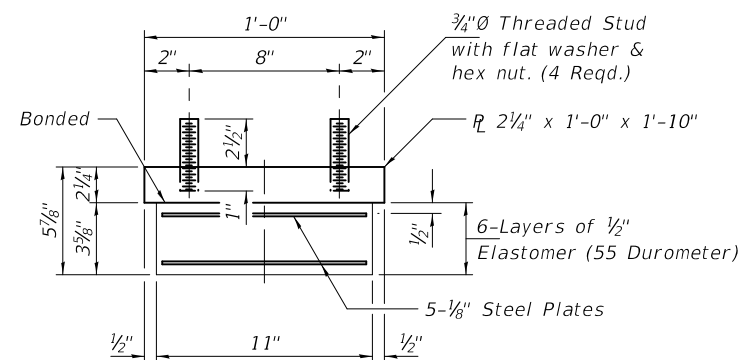


PLAN TOP AND BOTTOM PLATE



SECTION B-B

STEEL EXTENSION DETAIL

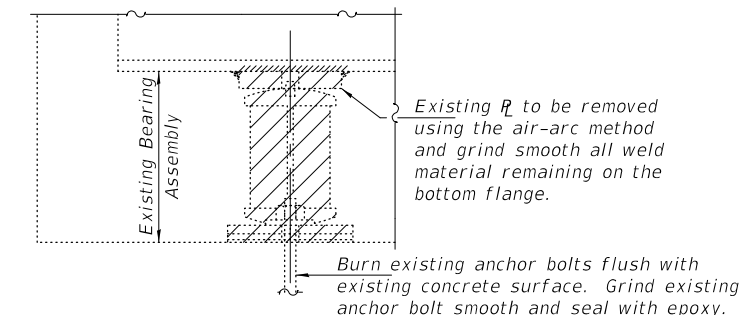
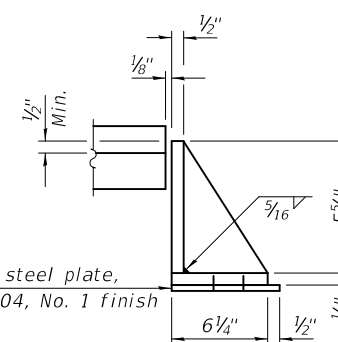


BEARING ASSEMBLY

Note:
 Shim plates shall not be placed under Bearing Assembly.

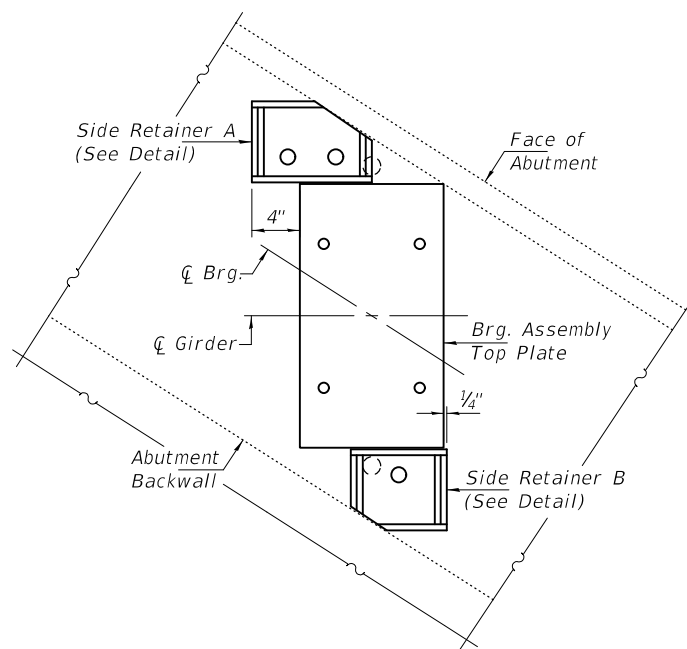
TYPICAL SECTION THRU SIDE RETAINERS "A" & "B"

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

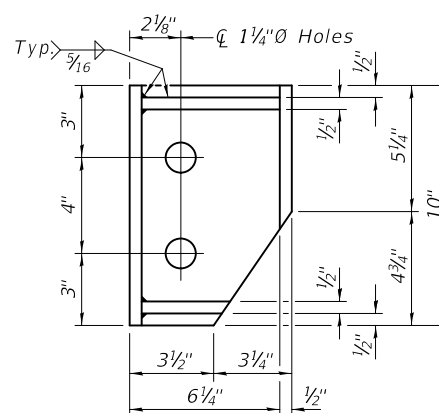


EXISTING BEARING REMOVAL DETAIL

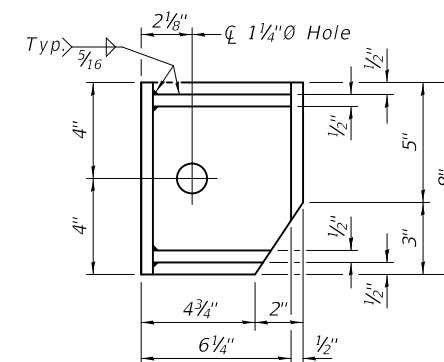
Cost included with Jack and Remove Existing Bearings.



SIDE RETAINER LOCATION PLAN



SIDE RETAINER "A" (18-Required)



SIDE RETAINER "B" (18-Required)

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	18
Jack and Remove Existing Bearings	Each	18
Furnishing and Erecting Structural Steel	Pound	4790
Anchor Bolts, 1" ϕ	Each	54

TYI/REPS 5-17-2018

DESIGNED - JOV
 CHECKED - JSB
 DRAWN - STEFFEN
 CHECKED - JOV JSB

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

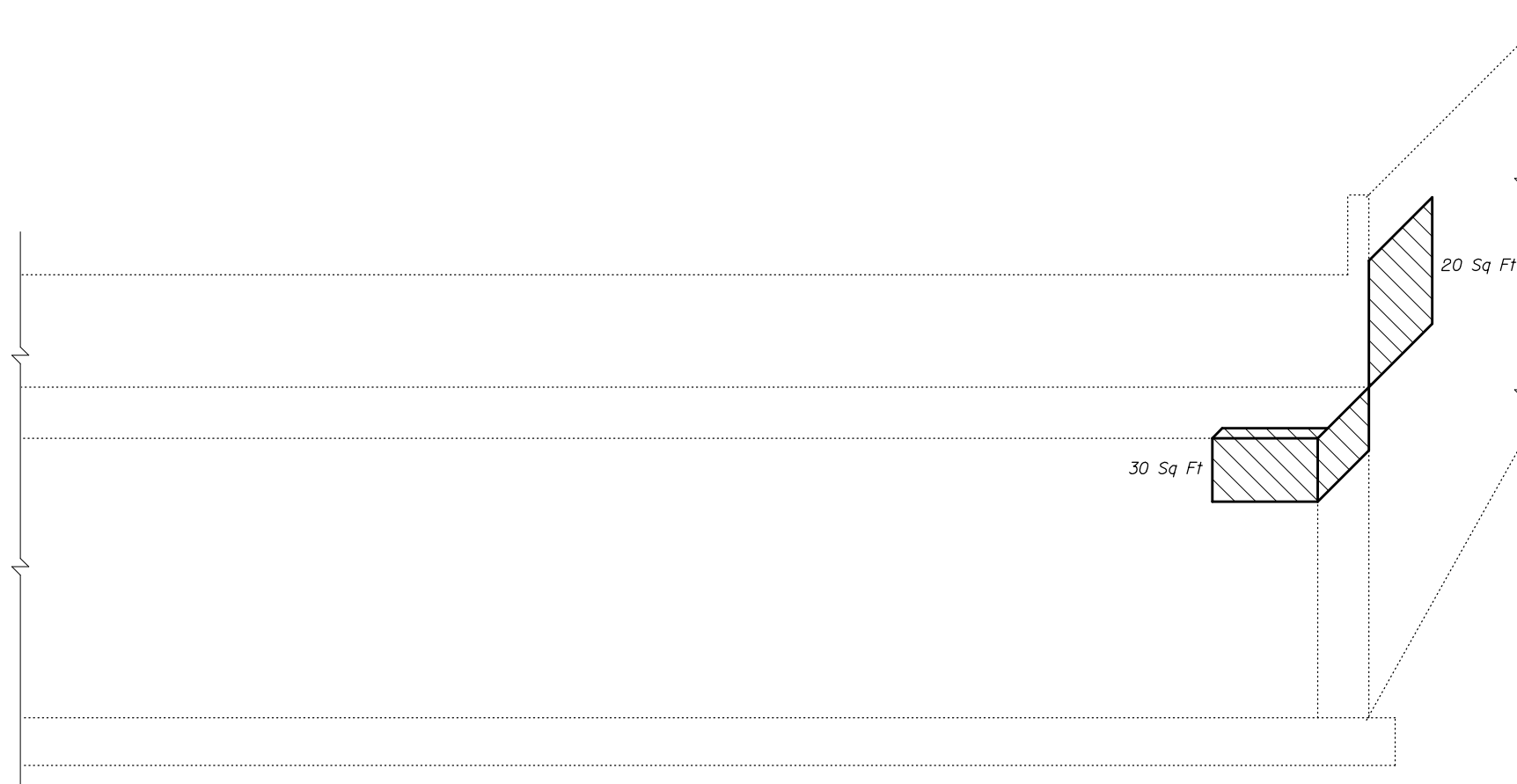
DATE - JANUARY 22, 2019
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

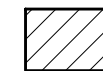
BEARING REPLACEMENT DETAILS AT ABUTMENTS
 SN 058-0091

SHEET NO. 9 OF 11 SHEETS

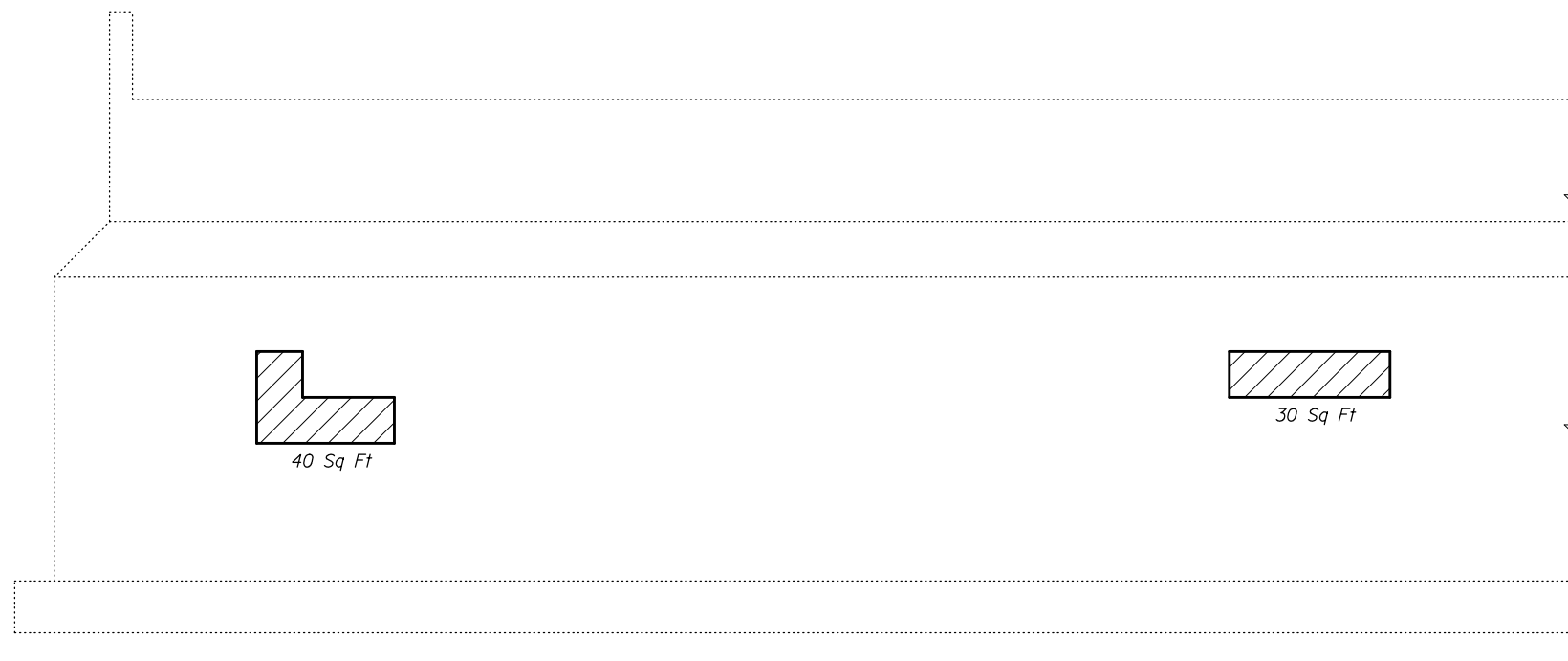
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	23
CONTRACT NO. 74884				
ILLINOIS FED. AID PROJECT				



SOUTH ABUTMENT - WEST HALF



Structural Repair of Concrete ≤ 5 inches



SOUTH ABUTMENT - EAST HALF

Notes: Quantities and locations are approximated.
Actual quantities and locations to be determined
in the field by the Engineer.

This work is intended to repair only areas of
severe deterioration. Some minor deteriorated
areas may be left unrepaired.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete ≤ 5 inches	Sq. Ft.	120

DESIGNED - S. Kassel
DRAWN - S. Kassel
CHECKED - D. MackIn
DATE - 04/11/2018

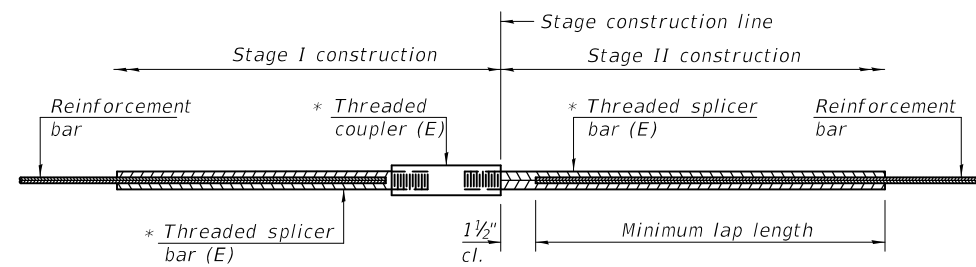
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL REPAIR OF CONCRETE
SN. 058-0091**

SHEET NO. 10 OF 11 SHEETS STA. 47+69.67 TO STA. 47+69.67

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	DT BRIDGE REPAIRS 2019-1	MACON	26	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74884	

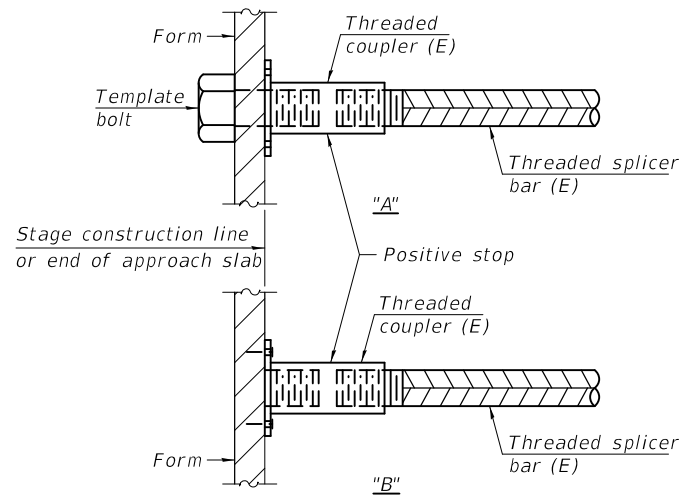


STANDARD BAR SPLICER ASSEMBLY

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

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

Location	Bar size	No. assemblies required	Minimum lap length
South Abutment	#6	19	3'-7"
North Abutment	#6	19	3'-7"

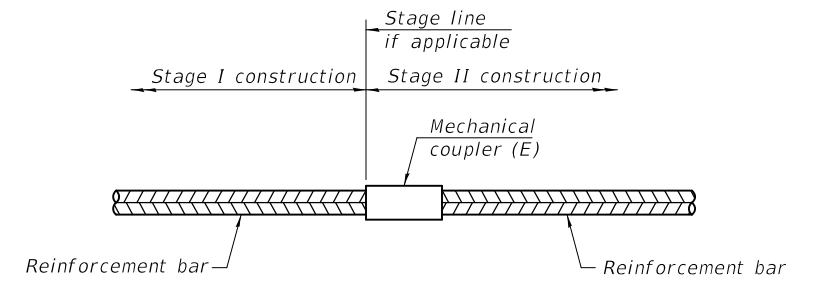


INSTALLATION AND SETTING METHODS

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

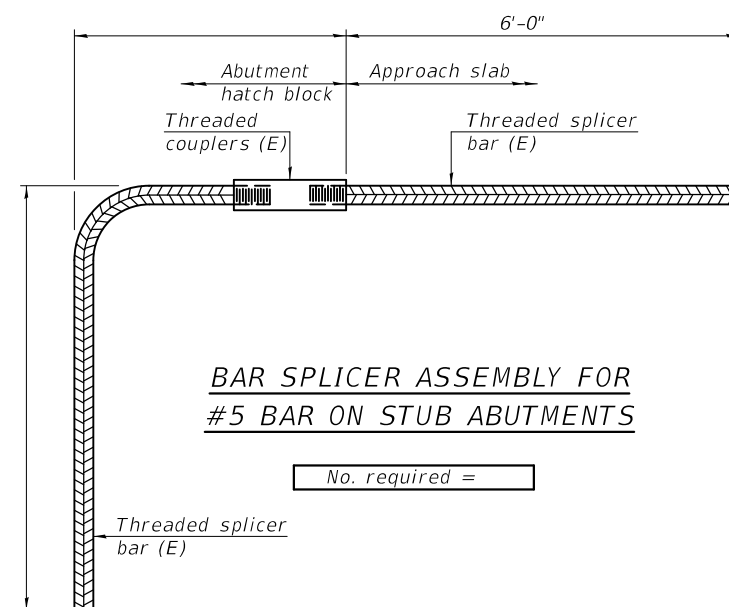
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017

DESIGNED - JOV
 CHECKED - JSB
 DRAWN - STEFFEN
 CHECKED - JOV JSB

EXAMINED
 PASSED

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

DATE - JANUARY 22, 2019

REVISED -
 REVISED -

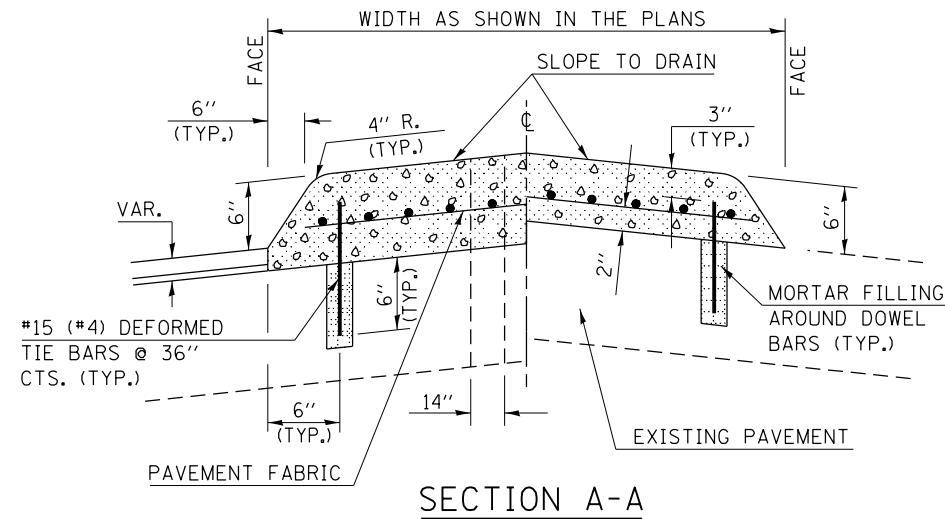
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 SN 058-0091

SHEET NO. 11 OF 11 SHEETS

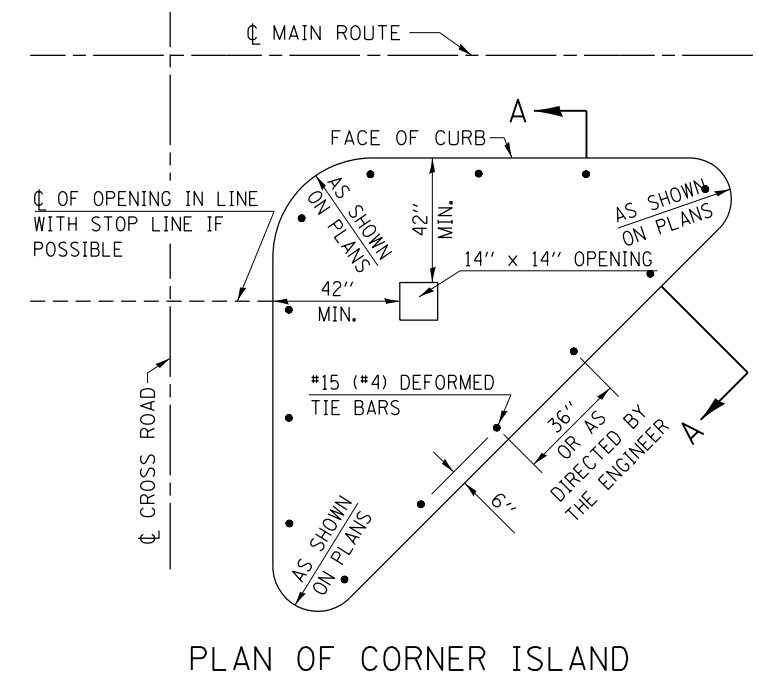
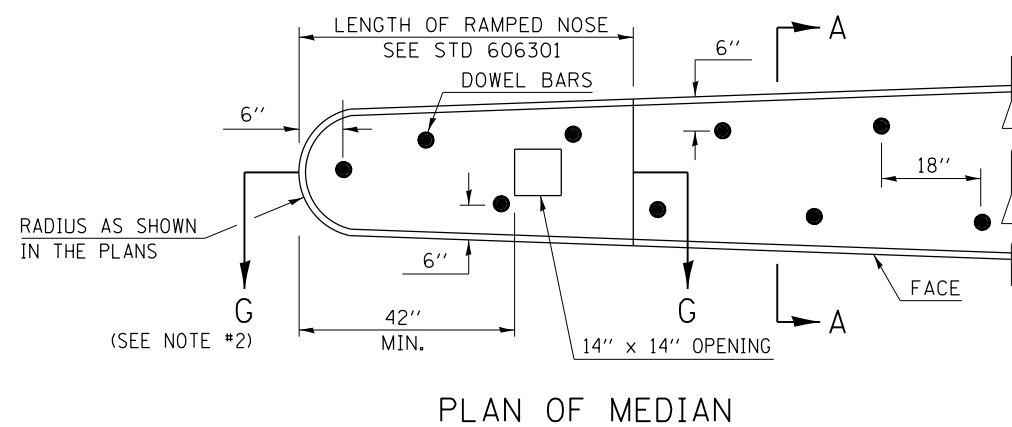
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	25
CONTRACT NO. 74884				
ILLINOIS FED. AID PROJECT				

DETAIL OF CONCRETE MEDIAN, TYPE SM-6 (SM-15) (DOWELED)



GENERAL NOTES

1. THE GENERAL NOTES FOR STANDARD 606301 SHALL APPLY.
2. SECTION G-G SHALL BE THE SAME AS SHOWN ON STANDARD 606301.
3. DOWEL BARS @ 36" CTS. OR AS DIRECTED BY THE ENGINEER.
4. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ FOOT FOR CONCRETE MEDIAN, TYPE SM-6 (SM-15) (DOWELED), INCLUDING THE COST OF FURNISHING AND INSTALLING THE DOWEL BARS, MORTAR FILLING, PAVEMENT FABRIC AND THE REMOVAL AND DISPOSAL OF THE EXISTING PAVEMENT FOR THE 14" x 14" OPENING, IF REQUIRED, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



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PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 1/3/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE MEDIAN, TYPE SM (DOWELED)
DETAIL**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2019-1	MACON	26	26
CONTRACT NO. 74884				
ILLINOIS FED. AID PROJECT				