

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	1
		ILLINOIS	CONTRACT NO. 74A92	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

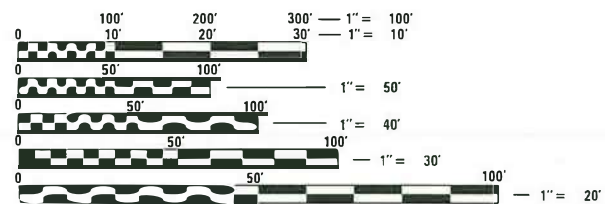
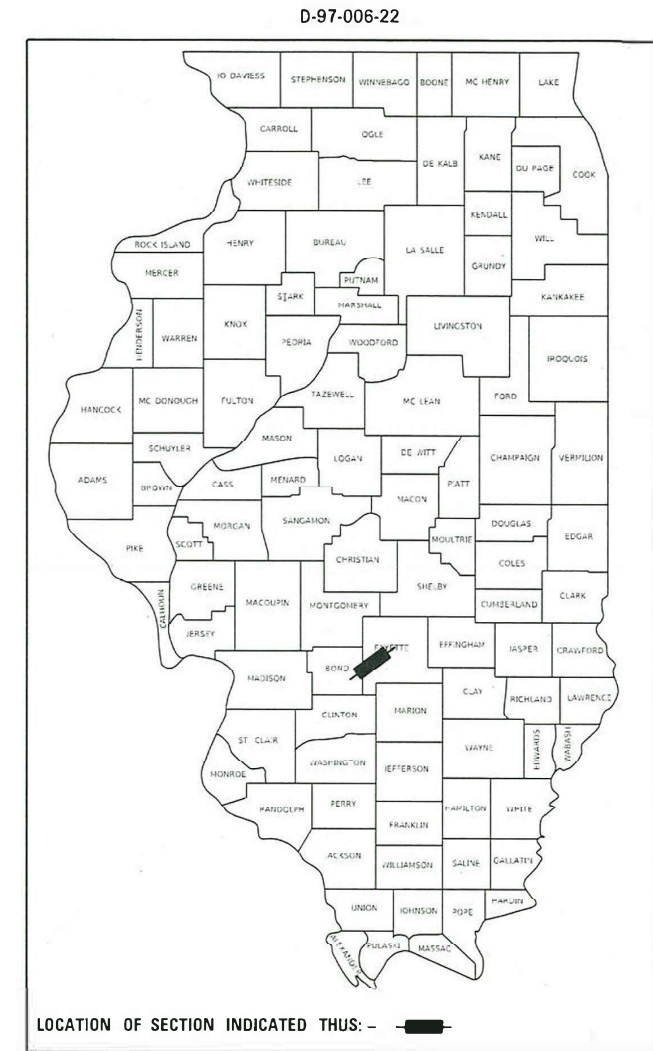
ADT=1,550 (2021)

GROSS LENGTH = 1602.00 FT. = 0.303 MILES
NET LENGTH = 1602.00 FT. = 0.303 MILES

PROPOSED HIGHWAY PLANS

FAS ROUTE 1751 (US 40)
SECTION D7 BRIDGE REPAIRS 2023-6
PROJECT HBFP-ADTM(131)
BRIDGE DECK OVERLAY, BRIDGE JOINT
REPLACEMENT, BRIDGE REPAIRS
FAYETTE COUNTY

C-97-021-22

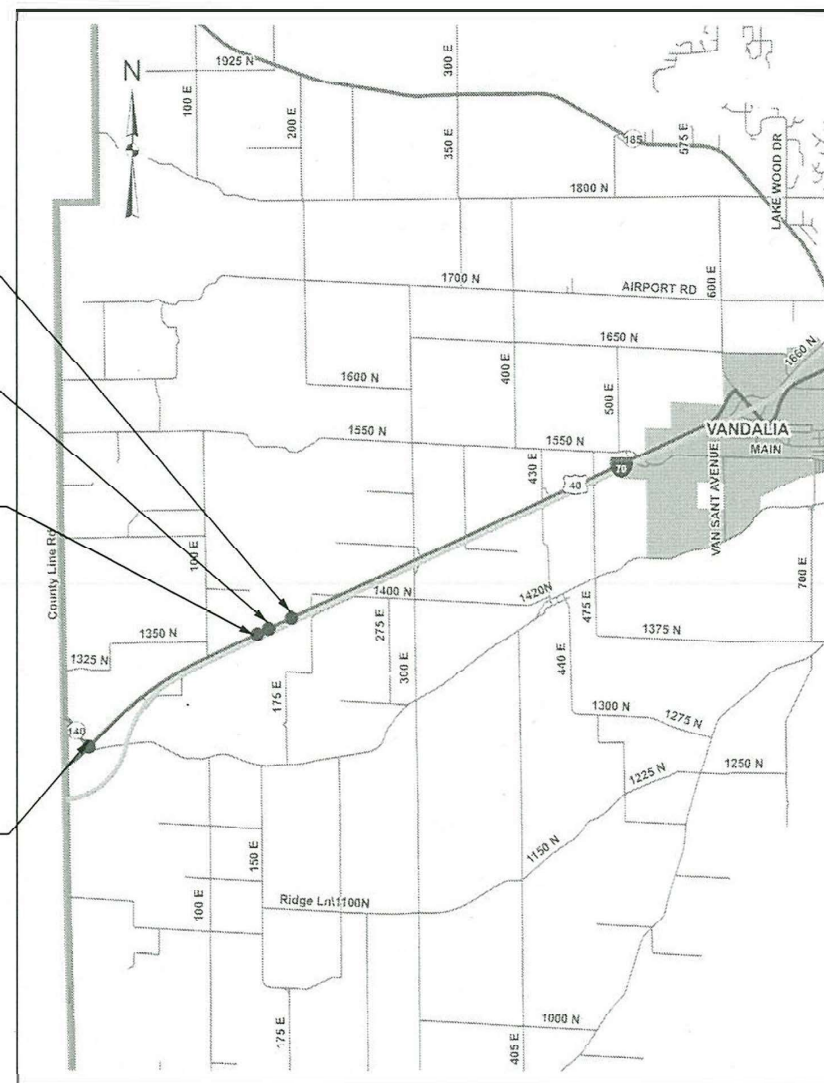


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: BRIAN LEWIS
PROJECT MANAGER: MARIA BLOEMER
PHONE: (217)342-8360
CONTRACT NO. 74A92

- SN 026-0046
STA. 140 + 08.18
- SN 026-0045
STA. 127 + 63.68
- SN 026-0044
STA. 120 + 98.32
- SN 026-0042
STA. 16 + 25.9



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 17, 2022
Jeffrey P. Myer
REGIONAL ENGINEER

October 14, 2022
Steph M. Lewis
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2022
Steph M. Lewis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED FROM 0.3 MILES TO 2.6 MILES EAST OF THE BOND/FAYETTE COUNTY LINE FROM CSXT RAILROAD TO HURRICANE CREEK FOR VARIOUS STRUCTURES. THIS LOCATION IS BETWEEN MULBERRY GROVE AND VANDALIA. THESE STRUCTURES ARE 026-0042, 026-0044, 026-0045, AND 026-0046.

THE WORK INCLUDES BRIDGE DECK OVERLAY, BRIDGE DECK EXPANSION JOINT REPLACEMENT, AND BRIDGE DECK REPAIRS.

THE WORK WILL CONSIST OF CONCRETE REMOVAL, CONCRETE SUPERSTRUCTURE, REINFORCEMENT BARS, BRIDGE DECK GROOVING, BRIDGE DECK SCARIFICATION, BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, PREFORMED JOINT STRIP SEAL, PROTECTIVE COAT, DECK SLAB REPAIR, APPROACH SLAB REPAIR, STRUCTURAL REPAIR OF CONCRETE, PROTECTIVE SHIELD, RAISED REFLECTIVE PAVEMENT MARKER REMOVAL, AND FURNISHING AND ERECTING STRUCTURAL STEEL. ALSO, THERE WILL BE HMA SURFACE REMOVAL AND RESURFACING.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIELD, PRIVATE, AND COMMERCIAL ENTRANCES AND PROPERTY AT LOCATED WITHIN THE ROAD CLOSURE AT ALL TIMES.

SEE ROAD CLOSURE SPECIAL PROVISION FOR DETAILS ON ROAD CLOSURES AND DETOUR DETAILS.

HMA SHOULDERS ARE TO BE PAVED IN CONJUNCTION WITH HMA SURFACE COURSE FOR MAINLINE PAVING. A PAVER IS TO BE USED INSTEAD OF A ROAD WIDENER FOR ALL HMA PAVING WORK WITH MAINLINE AND SHOULDER OF THE APPROACH PAVEMENT AND THE ROADWAY PAVEMENT AS LISTED ACCORDING TO THE SCHEDULE OF QUANTITIES.

MATERIAL FOR AGGREGATE WEDGE SHOULDER, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.

PAVEMENT MARKING TAPE SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON HMA SURFACE COURSE. PAINT PAVEMENT MARKINGS SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON MILLED SURFACES.

THE FOLLOWING APPLICATION RATES WERE USED IN CALCULATING PLAN QUANTITIES AND HAVE BEEN INCLUDED FOR REFERENCE:

APPLICATION RATES

AGGREGATE WEDGE SHOULDER: 2.05 TON/CU YD
 BITUMINOUS MATERIALS (TACK COAT): 0.050 LB/SQ FT - MILLED SURFACE
 HOT-MIX ASPHALT SURFACE COURSE: 112 LB/SQ YD/INCH

THE QUANTITIES FOR PAINT PAVEMENT MARKING - LINE 4" ARE AS FOLLOWS: 1069' OF YELLOW AND 3204' OF WHITE.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

LOCATION	APPLICATION	COURSE	PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	QUALITY MANAGEMENT
US ROUTE 40	HMA SURFACE COURSE, MIX "C", N70 (1 1/2")	SURFACE	PG 64-22	4.0% @ N=70	1L - 9.5	MIXTURE C	QC/QA

INDEX OF SHEETS

SHEET NO	TITLE
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS
3-4	SUMMARY OF QUANTITIES
5-10	TYPICAL SECTIONS
11-12	SCHEDULE OF QUANTITIES
13-42	BRIDGE PLAN SHEETS
43-45	DETOUR SIGNING
46	PROJECT DETAIL DRAWINGS & PAVING DETAILS
47-50	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKER APPLICATIONS

HIGHWAY STANDARDS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS - DAY ONLY
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 M
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION
420001-10	PAVEMENT JOINTS

REV. - MS

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USER NAME = Mona.Steffen	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, INDEX OF SHEETS, AND HIGHWAY STANDARDS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISED -	1751			D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	2	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 74A92				
PLOT DATE = 8/17/2022	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047 80% FED 20% STATE		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1268	1268		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	1953	1953		
40600990	TEMPORARY RAMP	SO YD	119	119		
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	237	237		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	156	156		
50102400	CONCRETE REMOVAL	CU YD	65.3	65.3		
50157300	PROTECTIVE SHIELD	SO YD	300	300		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	69.8	69.8		
50300260	BRIDGE DECK GROOVING	SO YD	2121	2121		
50300300	PROTECTIVE COAT	SO YD	2430	2430		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	10160	10160		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	356	356		
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	10	10		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0047 80% FED 20% STATE		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7		
67100100	MOBILIZATION	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	14	14		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	321	321		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	54	54		
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	4273	4273		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4273	4273		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	3	3		
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	1425	1425		
x7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1		
x7011801	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1	1		

* SPECIALTY ITEM

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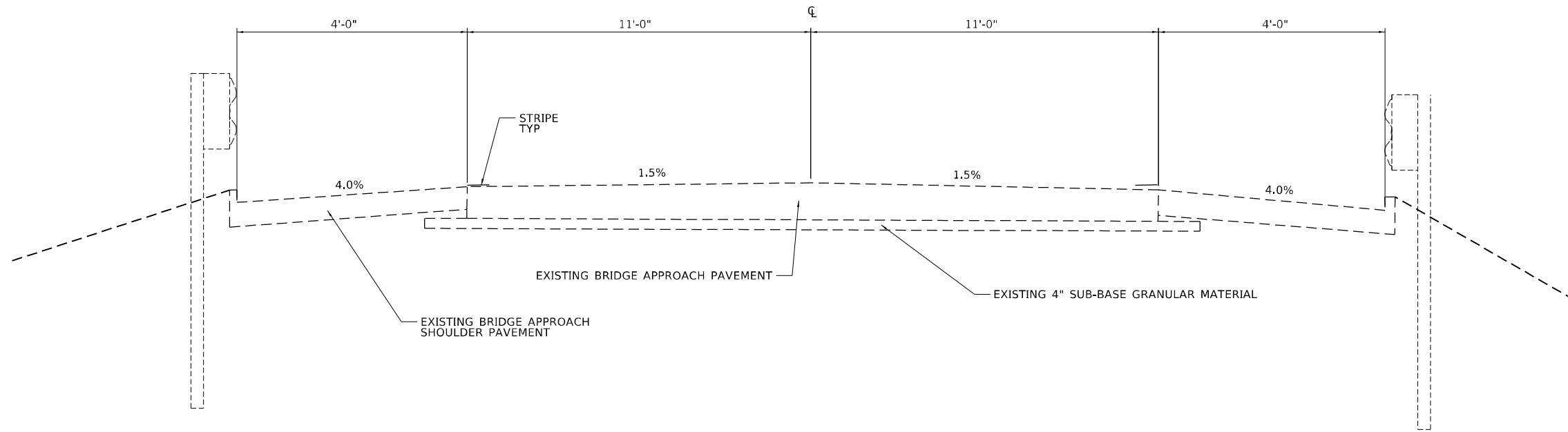
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	3
CONTRACT NO. 74A92			ILLINOIS FED. AID PROJECT	

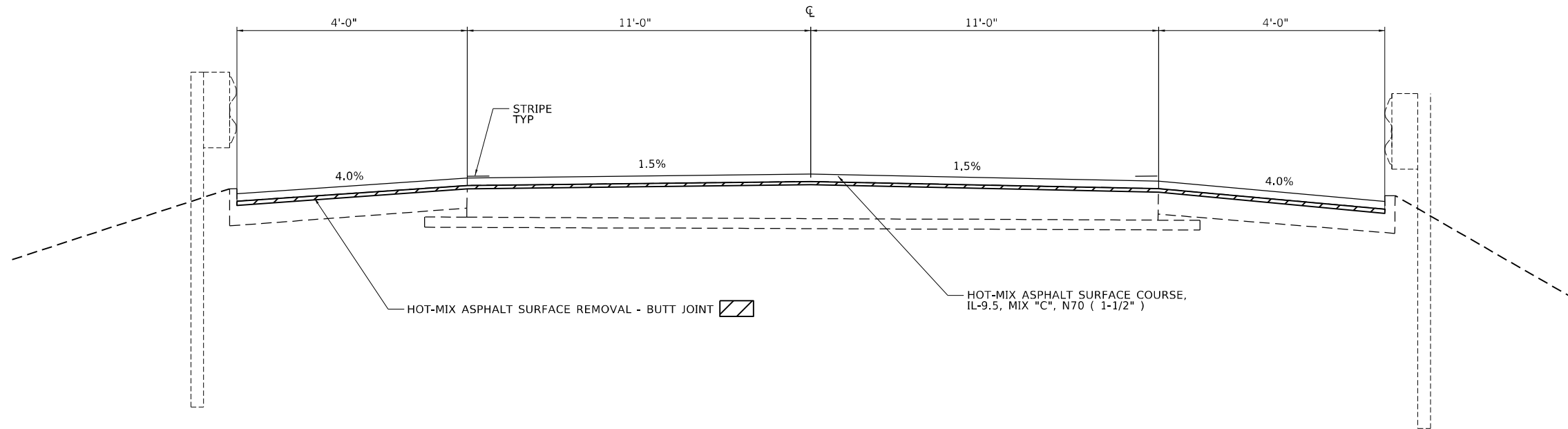
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EXISTING ROADWAY TYPICAL SECTION

S.N. 026-0042
 STA. 14+35 to STA. 15+20.40
 STA. 17+31.40 to STA. 18+17.00

NOT TO SCALE



PROPOSED ROADWAY TYPICAL SECTION

S.N. 026-0042
 STA. 14+35 to STA. 15+20.40
 STA. 17+31.40 to STA. 18+17.00

NOT TO SCALE

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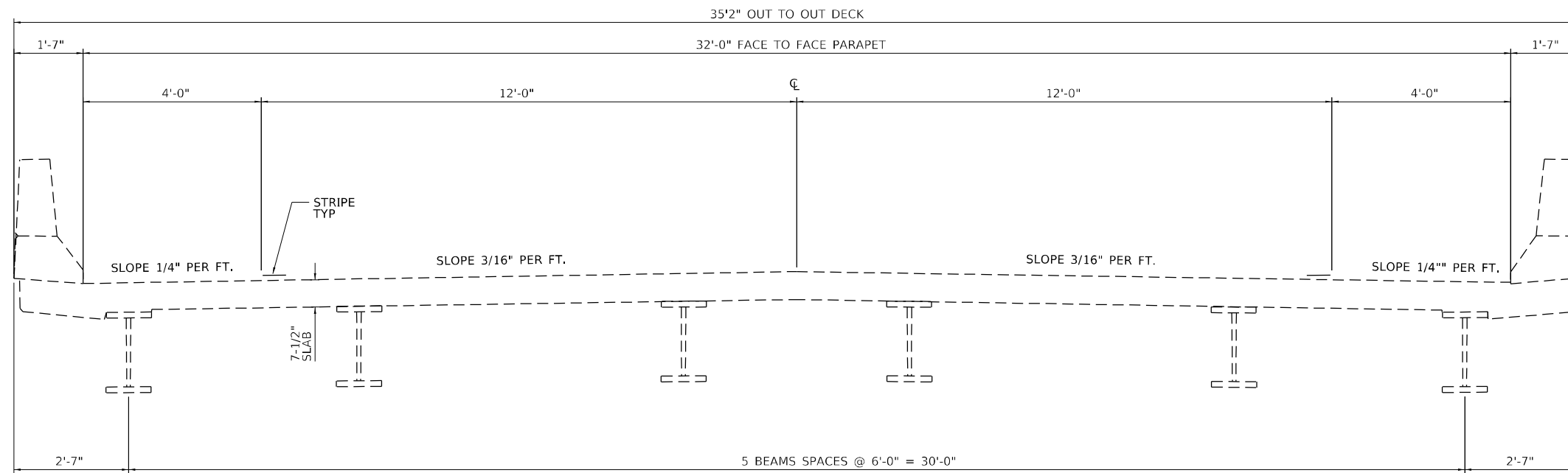
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PLOT DATE = 8/17/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	5
			CONTRACT NO. 74A92	
		ILLINOIS	FED. AID PROJECT	



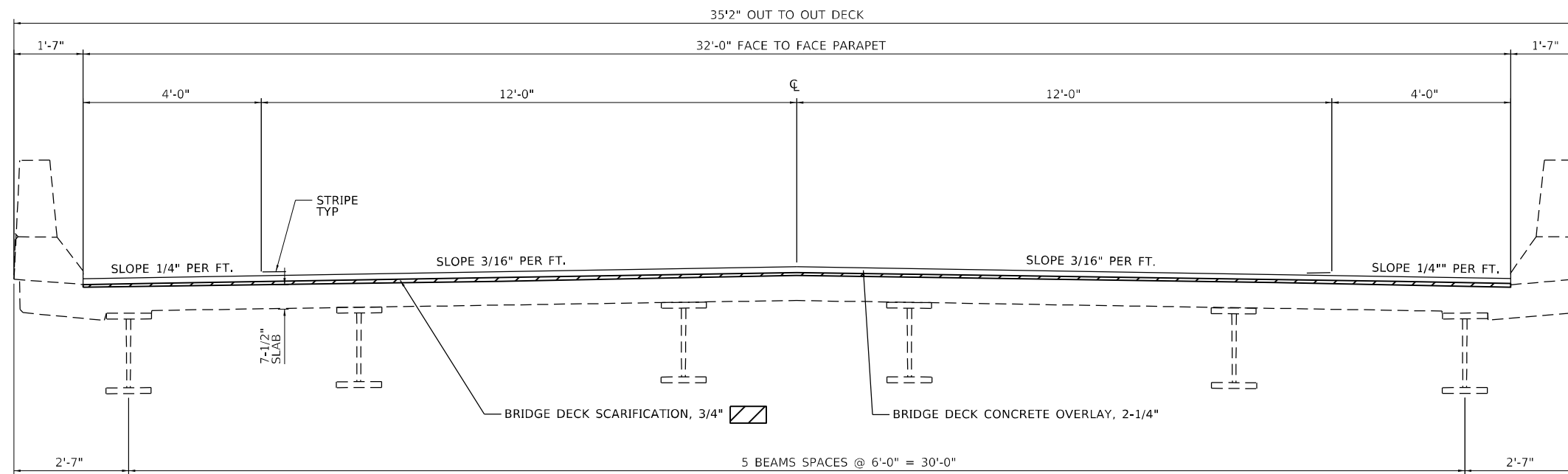
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S.N. 026-0042

STA. 15+20.40 to STA. 17+31.40

BK. WEST ABUT. TO BK. EAST ABUT.

NOT TO SCALE



PROPOSED ROADWAY TYPICAL SECTION

S.N. 026-0042

STA. 15+20.40 to STA. 17+31.40

BK. WEST ABUT. TO BK. EAST ABUT.

NOT TO SCALE

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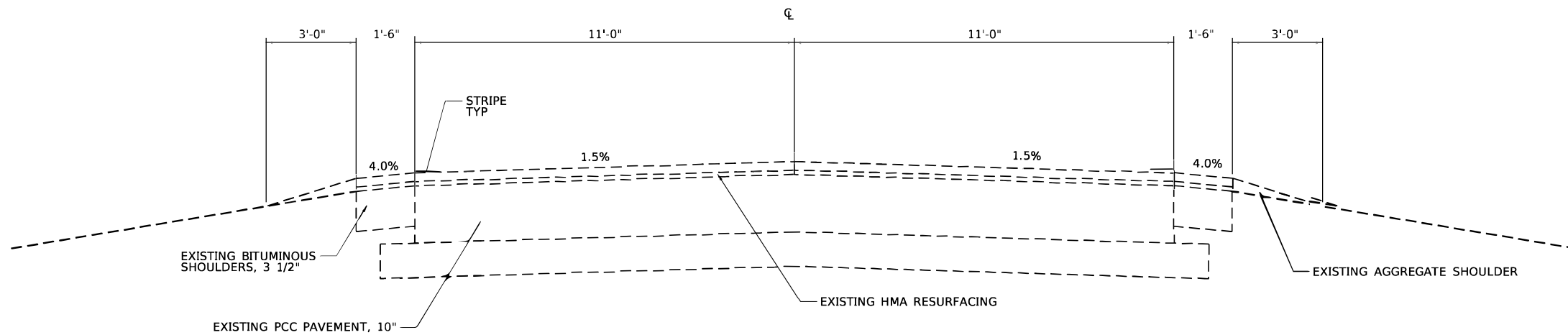
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PLOT DATE = 8/17/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	6
			CONTRACT NO. 74A92	
ILLINOIS FED. AID PROJECT				



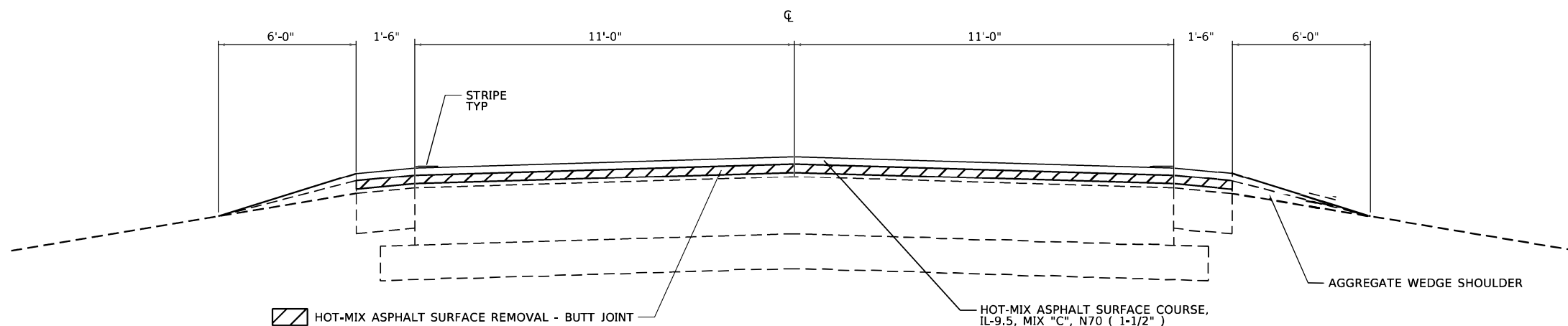
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S.N. 026-0044
 STA. 118+68.00 to STA. 120+43.49
 STA. 121+53.16 to STA. 123+30.00
 US ROUTE 40

S.N. 026-0045
 STA. 125+77.00 to STA. 126+77.77
 STA. 128+49.60 to STA. 129+50.00
 US ROUTE 40

S.N. 026-0046
 STA. 138+15.00 to STA. 139+15.85
 STA. 141+00.51 to STA. 142+00.00
 US ROUTE 40

NOT TO SCALE



PROPOSED ROADWAY TYPICAL SECTION

S.N. 026-0044
 STA. 118+68.00 to STA. 120+43.49
 STA. 121+53.16 to STA. 123+30.00
 US ROUTE 40

S.N. 026-0045
 STA. 125+77.00 to STA. 126+77.77
 STA. 128+49.60 to STA. 129+50.00
 US ROUTE 40

S.N. 026-0046
 STA. 138+15.00 to STA. 139+15.85
 STA. 141+00.51 to STA. 142+00.00
 US ROUTE 40

NOT TO SCALE

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PLOT DATE = 8/17/2022	DATE -	REVISED -

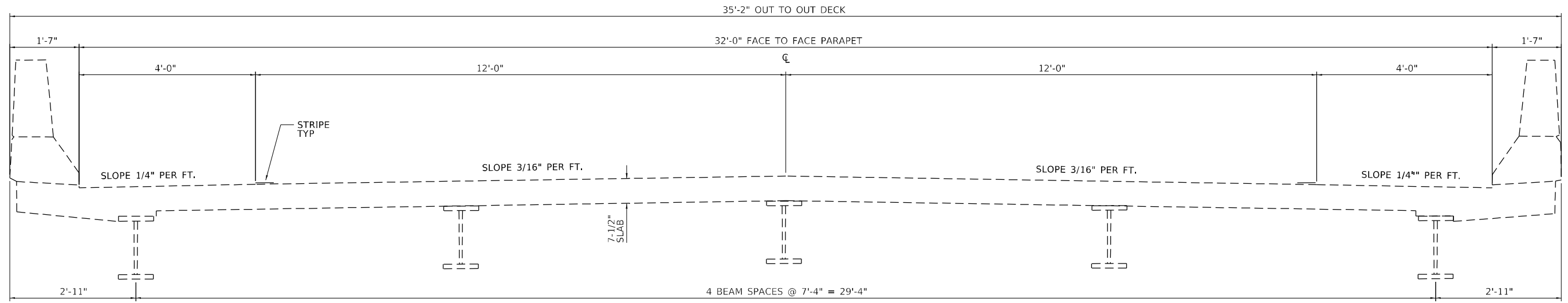
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	7
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

REV. - MS



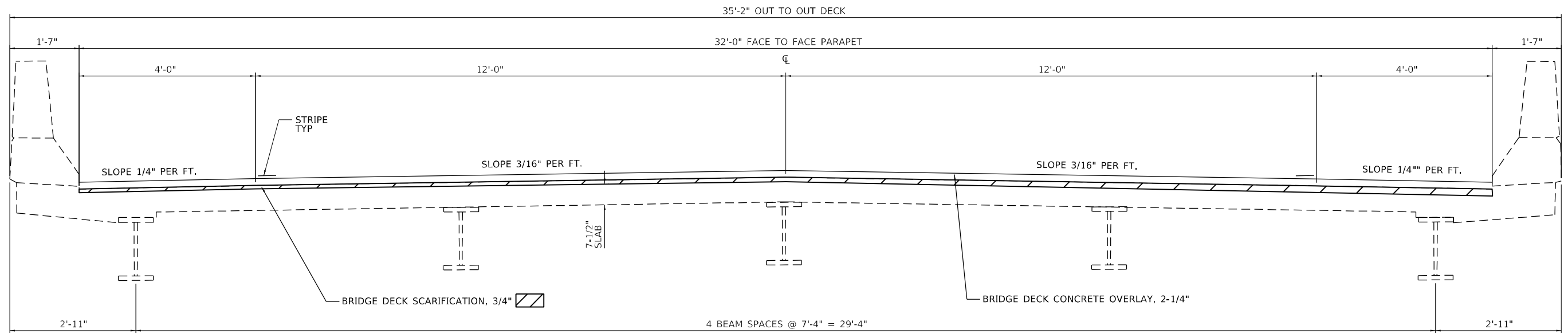
EXISTING ROADWAY TYPICAL SECTION

S.N. 026-0044

STA. 120+43.49 to STA. 121+53.16

BK. WEST ABUT. TO BK. EAST ABUT.

NOT TO SCALE



PROPOSED ROADWAY TYPICAL SECTION

S.N. 026-0044

STA. 120+43.49 to STA. 121+53.16

BK. WEST ABUT. TO BK. EAST ABUT.

NOT TO SCALE

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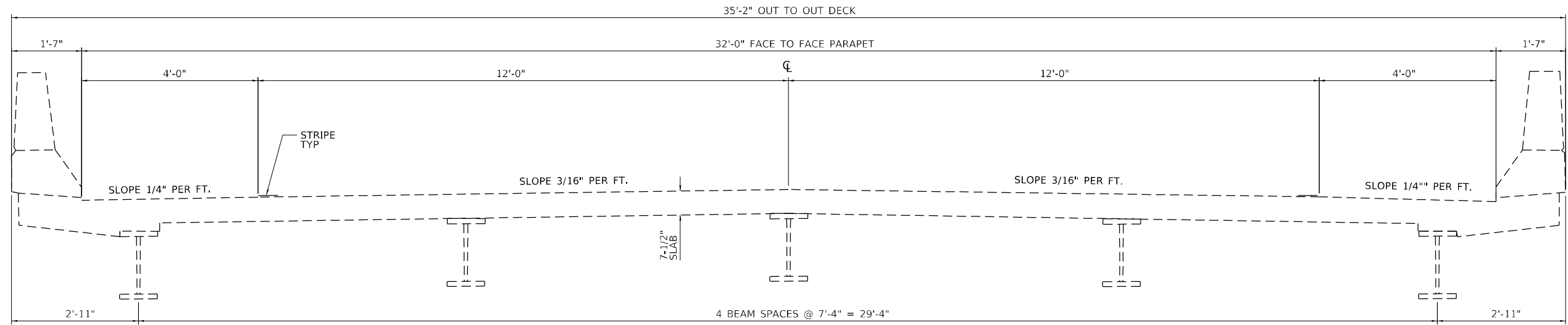
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	8
				CONTRACT NO. 74A92
ILLINOIS FED. AID PROJECT				



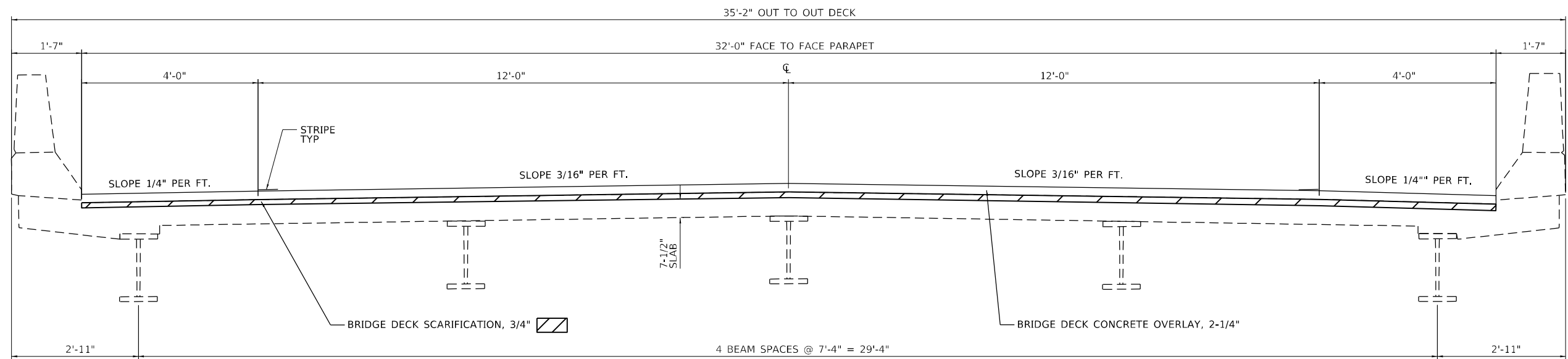
EXISTING ROADWAY TYPICAL SECTION

S.N. 026-0045

STA. 126+77.77 to STA. 128+49.60

BK. WEST ABUT. TO BK. EAST ABUT.

NOT TO SCALE



PROPOSED ROADWAY TYPICAL SECTION

S.N. 026-0045

STA. 126+77.77 to STA. 128+49.60

BK. WEST ABUT. TO BK. EAST ABUT.

NOT TO SCALE

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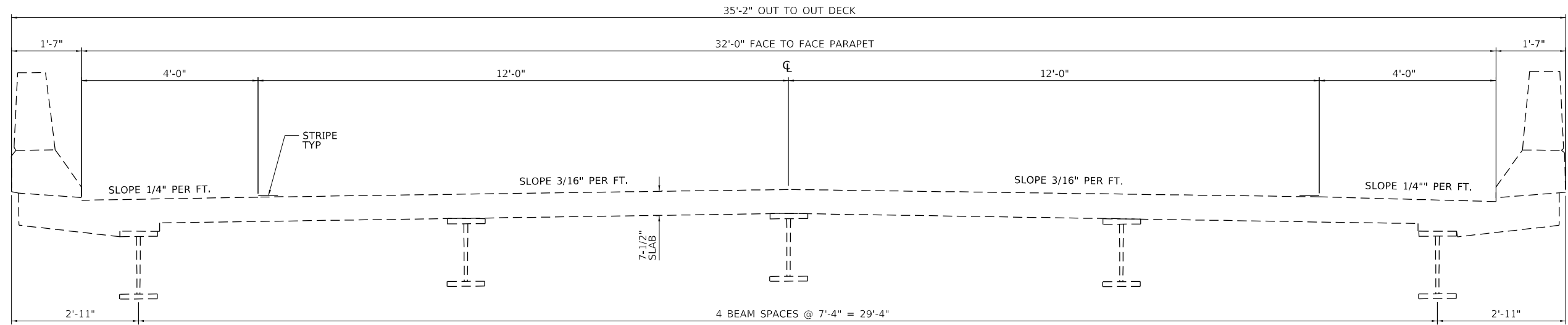
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PLOT DATE = 8/17/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	9
CONTRACT NO. 74A92			ILLINOIS FED. AID PROJECT	



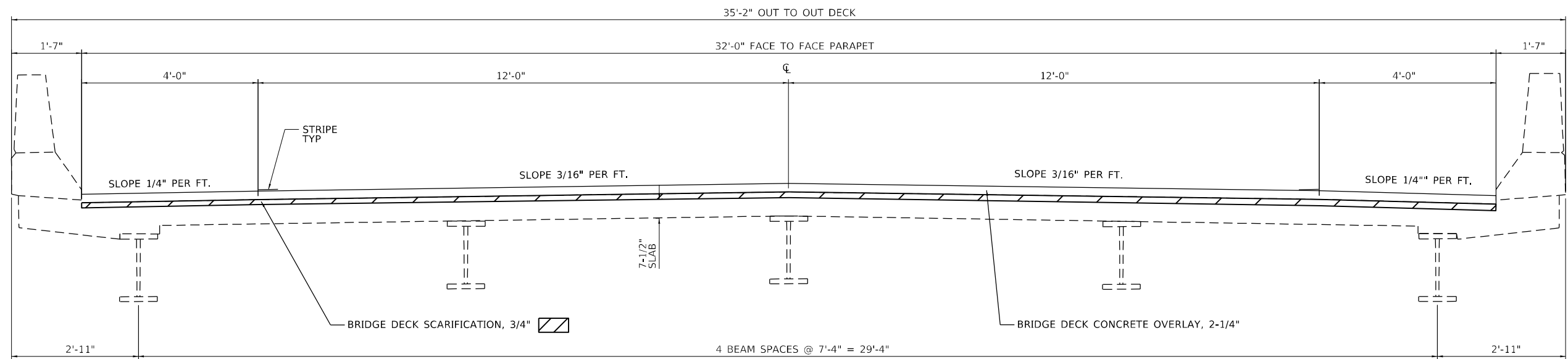
EXISTING ROADWAY TYPICAL SECTION

S.N. 026-0046

STA. 139+15.85 to STA. 141+00.51

BK. WEST ABUT. TO BK. EAST ABUT.

NOT TO SCALE



PROPOSED ROADWAY TYPICAL SECTION

S.N. 026-0046

STA. 139+15.85 to STA. 141+00.51

BK. WEST ABUT. TO BK. EAST ABUT.

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PLOT DATE = 8/17/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	10
CONTRACT NO. 74A92			ILLINOIS FED. AID PROJECT	

HMA REMOVAL SCHEDULE

STRUCTURE NUMBER	STATION	TO	STATION	LOCATION	LENGTH	WIDTH	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT 40600982 SQ YD
					FOOT	FOOT	
026-0042	14+35.00		14+86.40	WEST SIDE (BEG BRIDGE HMA)	51.40	30.00	171.33
	17+64.40		18+17.00	EAST SIDE (END BRIDGE HMA)	52.60	32.00	187.02
026-0044	118+68.00		120+15.49	WEST SIDE (BEG BRIDGE HMA)	147.49	25.00	409.69
	121+81.16		123+30.00	EAST SIDE (END BRIDGE HMA)	148.84	25.00	413.44
026-0045	125+77.00		126+46.77	WEST SIDE (BEG BRIDGE HMA)	69.77	25.00	193.81
	128+80.60		129+50.00	EAST SIDE (END BRIDGE HMA)	69.40	25.00	192.78
026-0046	138+15.00		138+84.85	WEST SIDE (BEG BRIDGE HMA)	69.85	25.00	194.03
	141+31.51		142+00.00	EAST SIDE (END BRIDGE HMA)	68.49	25.00	190.25
SUBTOTAL:							1952.36
TOTAL:							1953

AGGREGATE SHOULDER SCHEDULE

STRUCTURE NUMBER	STATION	TO	STATION	LOCATION	LENGTH	WIDTH	THICKNESS	AGGREGATE WEDGE SHOULDER, TYPE B 48102100 TON	
					FOOT	FOOT		INCH	WESTBOUND
026-0042	14+35.00		15+20.40	WEST SIDE BRIDGE	85.4	6.0	0.00	0.00	----
	14+35.00		15+20.40	WEST SIDE BRIDGE	85.4	6.0	0.00	----	0.00
	17+64.40		18+17.00	EAST SIDE BRIDGE	52.6	6.0	3.00	5.99	----
026-0044	17+64.40		18+17.00	EAST SIDE BRIDGE	52.6	6.0	3.00	----	5.99
	118+68.00		120+11.49	WEST SIDE BRIDGE	159.5	6.0	3.00	18.16	----
	121+81.16		123+30.00	EAST SIDE BRIDGE	148.8	6.0	3.00	16.95	----
	121+68.66		123+30.00	EAST SIDE BRIDGE	161.3	6.0	3.00	----	18.37
026-0045	125+77.00		126+66.27	WEST SIDE BRIDGE	89.3	6.0	3.00	10.17	----
	125+77.00		126+38.77	WEST SIDE BRIDGE	61.8	6.0	3.00	----	7.03
	128+80.60		129+50.00	EAST SIDE BRIDGE	69.4	6.0	3.00	7.90	----
026-0046	128+60.60		129+50.00	EAST SIDE BRIDGE	89.4	6.0	3.00	----	10.18
	138+15.00		139+15.85	WEST SIDE BRIDGE	100.9	6.0	3.00	11.49	----
	138+15.00		138+77.35	WEST SIDE BRIDGE	62.4	6.0	3.00	----	7.10
026-0046	141+31.51		142+00.00	EAST SIDE BRIDGE	68.5	6.0	3.00	7.80	----
	140+91.51		142+00.00	EAST SIDE BRIDGE	108.5	6.0	3.00	----	12.36
SUBTOTAL:								78.46	77.38
SUBTOTAL:								155.84	
TOTAL:								156	

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PLOT DATE = 8/17/2022	DATE -	REVISED -

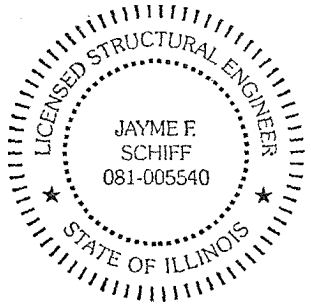
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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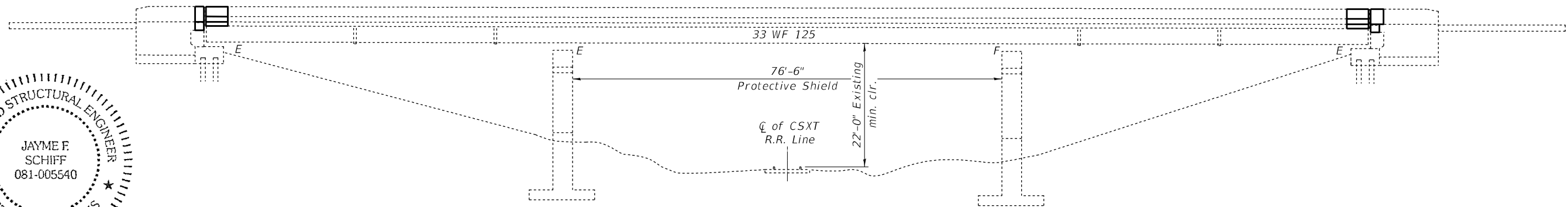
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1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	12
			CONTRACT NO. 74A92	
		ILLINOIS	FED. AID PROJECT	

Existing Structure: SN. 026-0042 carries U.S. Rte 40 (FAS 1751) over CSXT Railroad.
 The existing three span steel beam structure was constructed in 1943 and reconstructed in 1991. The proposed project consists of replacement of existing expansion joints with strip seals, bridge deck scarification, deck & approach patching, bridge deck overlay, & structural steel repair. Construction shall be completed using full road closure.

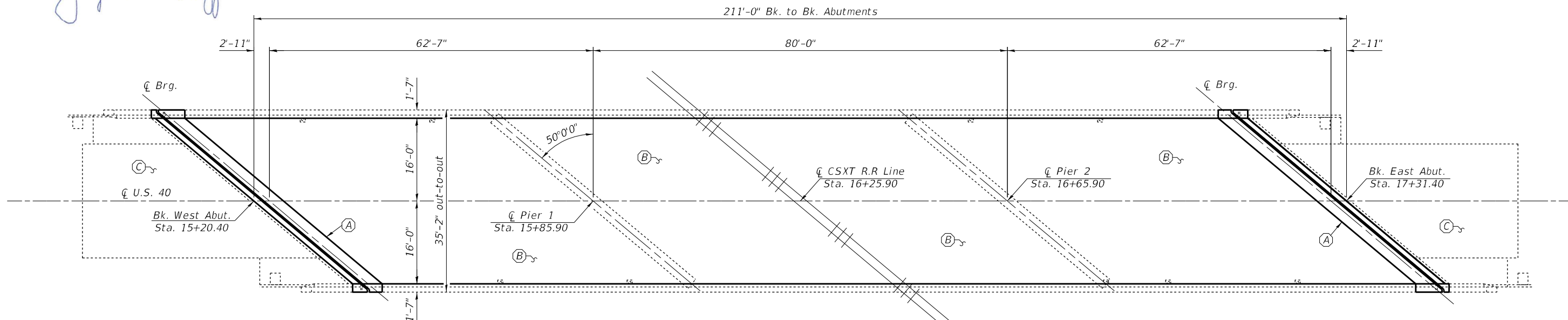


EXPIRES 11-30-2022

Jayne F. Schiff



ELEVATION



PLAN

- (A) - Remove Existing Expansion Joints and Replace with Strip Seal Expansion Joint & Structural Steel Repair
- (B) - Bridge Deck Scarification, 3/4", Deck Patching, & Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/4"
- (C) - Approach Slab Patching & See Roadway Plans for Overlay

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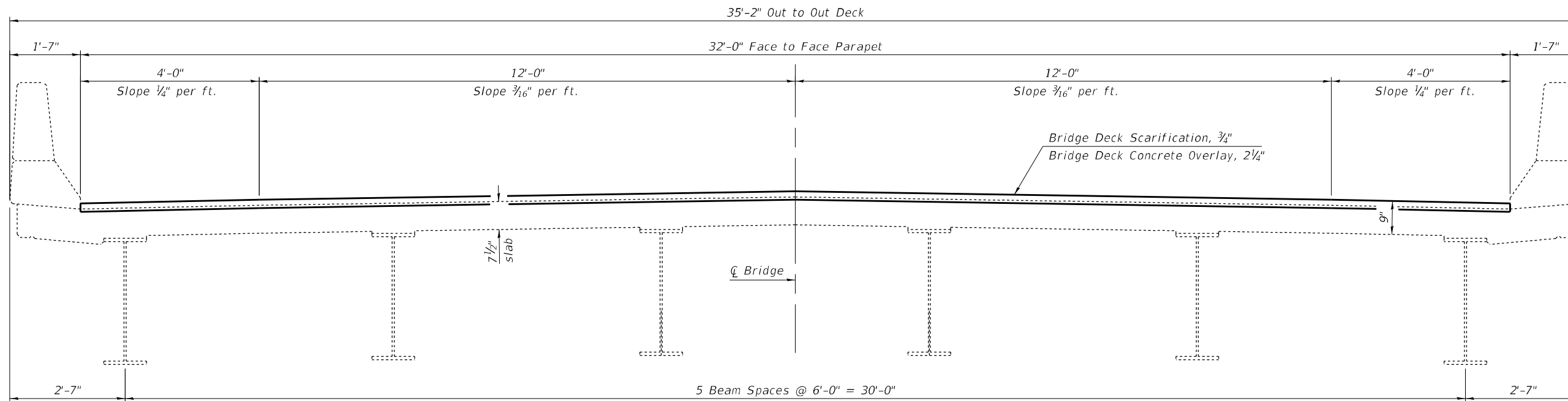
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PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION
 S.N. 026-0042**

SCALE: SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	13
				CONTRACT NO. 74A92
		ILLINOIS	FED. AID PROJECT	



DECK CROSS SECTION

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.

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 operations 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 Standard Specifications when the deck is poured at an ambient temperature other than 50 °F.

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.

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.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	18.8
Concrete Superstructure	Cu. Yd.	20.0
Reinforcement Bars, Epoxy Coated	Pound	2,570
Bridge Deck Grooving	Sq. Yd.	670
Bridge Deck Scarification, 3/4"	Sq. Yd.	710
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/4"	Sq. Yd.	710
Preformed Joint Strip Seal	Foot	104
Protective Coat	Sq. Yd.	755
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	6.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	2.0
Approach Slab Repair (Full Depth)	Sq. Yd.	5.0
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	20.0
Structural Repair of Concrete (Depth > 5")	Sq. Ft.	20.0
Protective Shield	Sq. Yd.	300
Raised Reflective Pavement Marker Removal	Each	3
Structural Steel Repair	Pound	580

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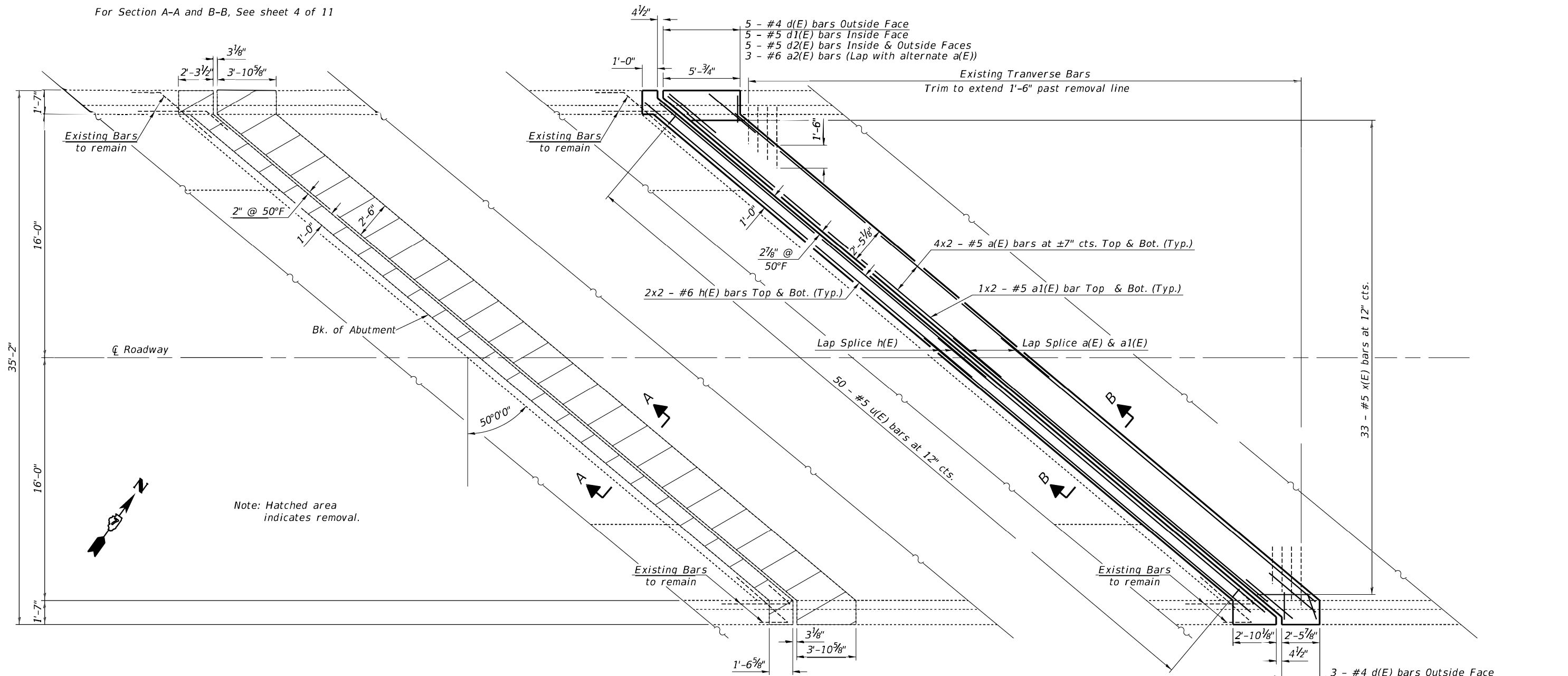
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK CROSS SECTION, GENERAL NOTES &
BILL OF MATERIALS S.N. 026-0042**

SCALE: SHEET 2 OF 11 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	

For Section A-A and B-B, See sheet 4 of 11



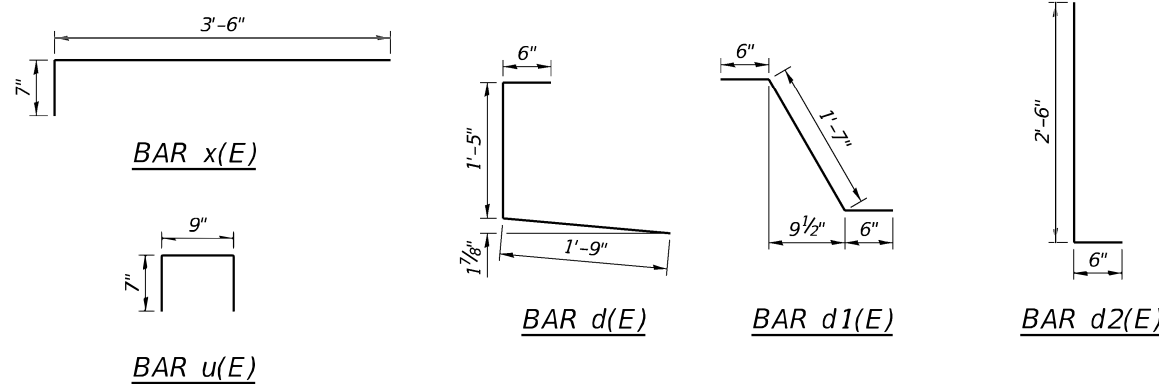
Note: Hatched area indicates removal.

BILL OF MATERIAL - TWO ABUTMENTS

Bar	No.	Size	Length	Shape
a(E)	32	#5	27'-2"	—
a1(E)	8	#5	28'-0"	—
a2(E)	12	#6	4'-0"	—
h(E)	16	#6	28'-6"	—
d(E)	16	#4	3'-8"	└
d1(E)	16	#5	2'-7"	└
d2(E)	32	#5	3'-0"	└
u(E)	100	#5	1'-11"	□
x(E)	66	#5	4'-1"	└
ITEM	UNIT	QUANTITY		
Concrete Removal	Cu. Yd.	18.8		
Concrete Superstructure	Cu. Yd.	20.0		
Reinforcement Bars, Epoxy Coated	Pound	2,570		

Bars indicated thus "4x2 - #5 etc." indicates 4 lines with 2 lengths per line.

REMOVAL PLAN
West Abutment Shown
East Abutment Similar by Rotation



REINFORCEMENT PLAN
West Abutment Shown
East Abutment Similar by Rotation

Minimum Bar Lap
#5 Bar = 3'-6"
#6 Bar = 4'-0"

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DRAWING: 026-0042
DATE: 8/17/2022

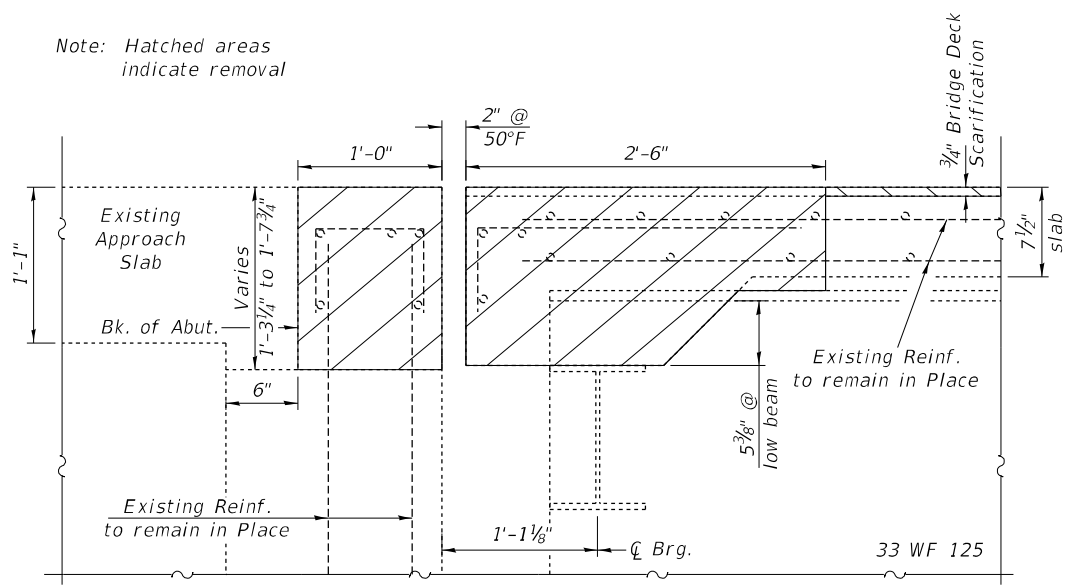
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	DATE - Sept. 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

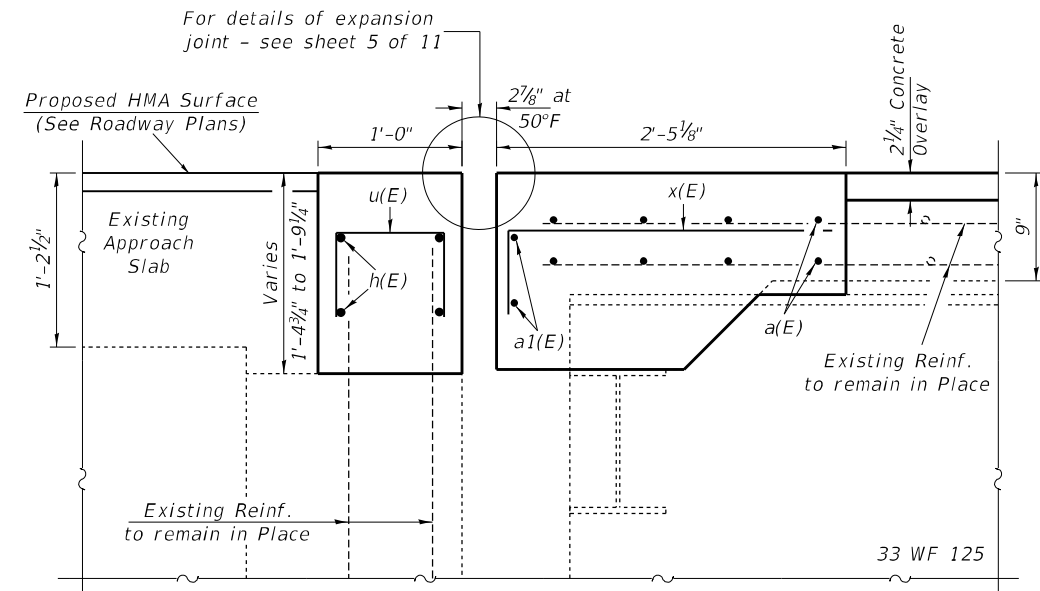
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S.N. 026-0042**

SCALE: SHEET 3 OF 11 SHEETS STA. TO STA.

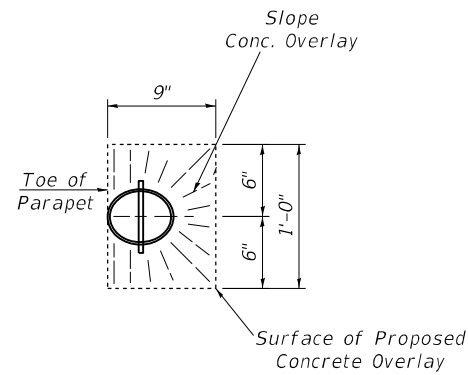
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	



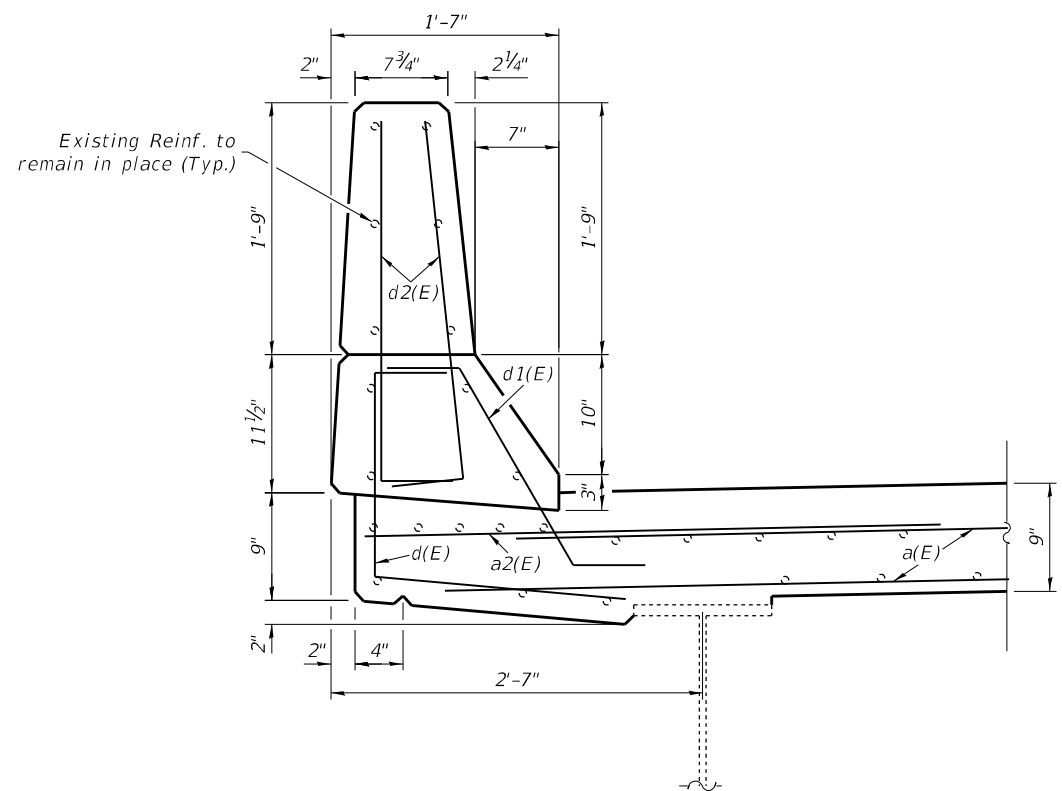
SECTION A-A



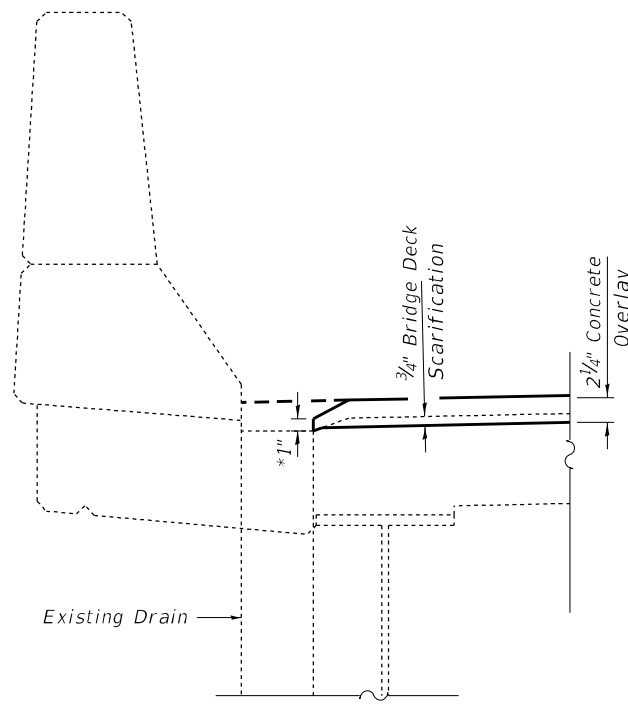
SECTION B-B



TOP PLAN OF FLOOR DRAIN

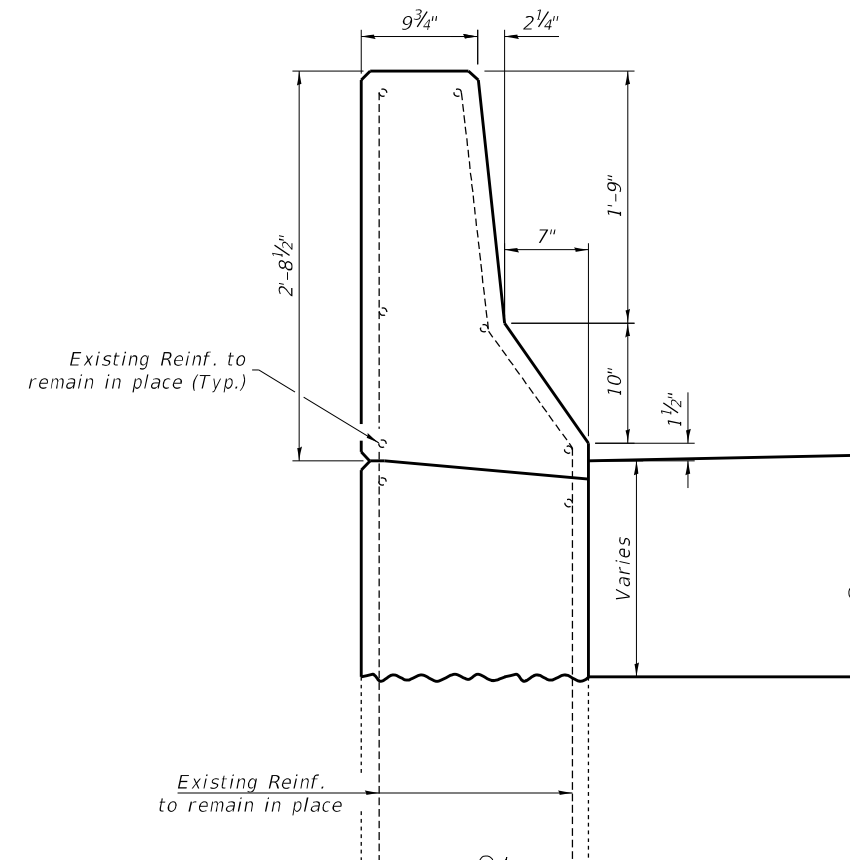


SECTION THRU DECK PARAPET



FLOOR DRAIN PRESERVATION

* Minimum thickness of overlay at edge of drain = 1"



SECTION THRU APPROACH PARAPET

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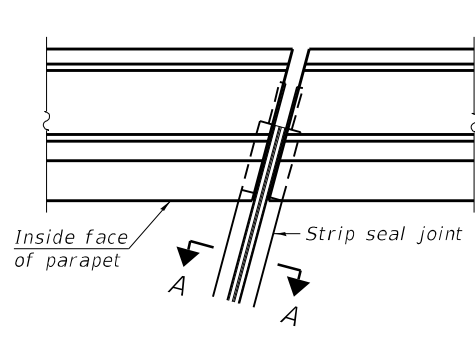
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	DATE - Sept 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

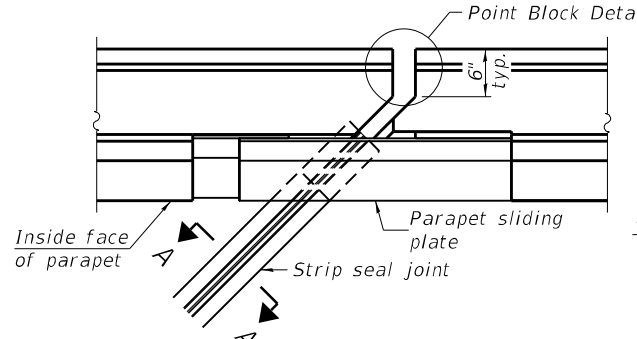
EXPANSION JOINT REPLACEMENT DETAILS
S.N. 026-0042

SCALE: SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

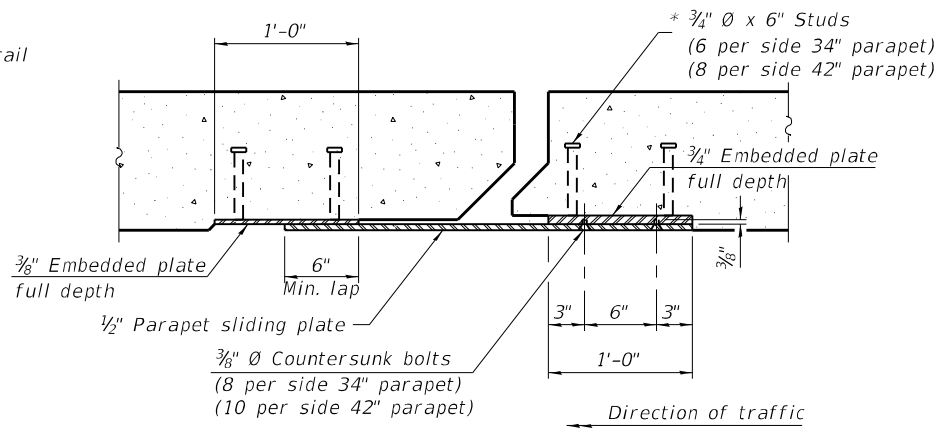


FOR SKEWS $\leq 30^\circ$



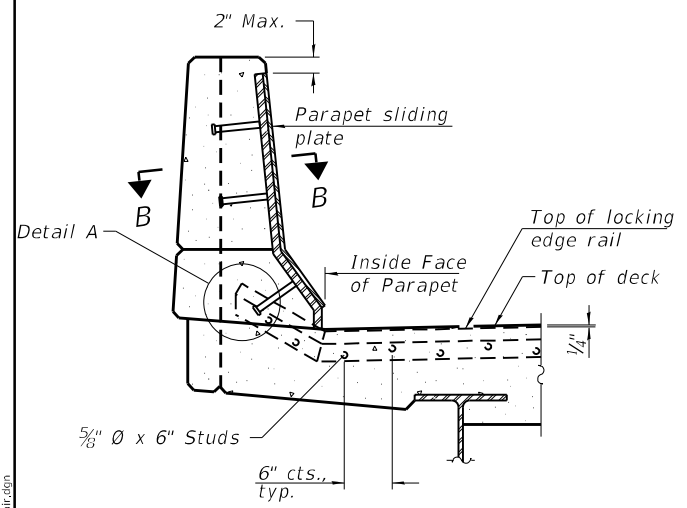
FOR SKEWS $> 30^\circ$

PLAN AT PARAPET



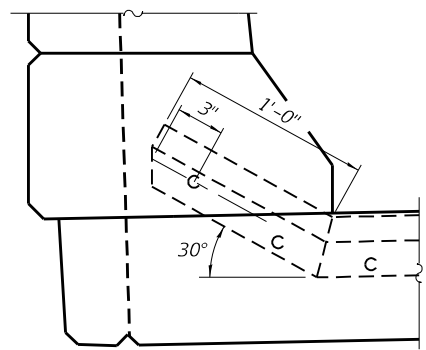
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.

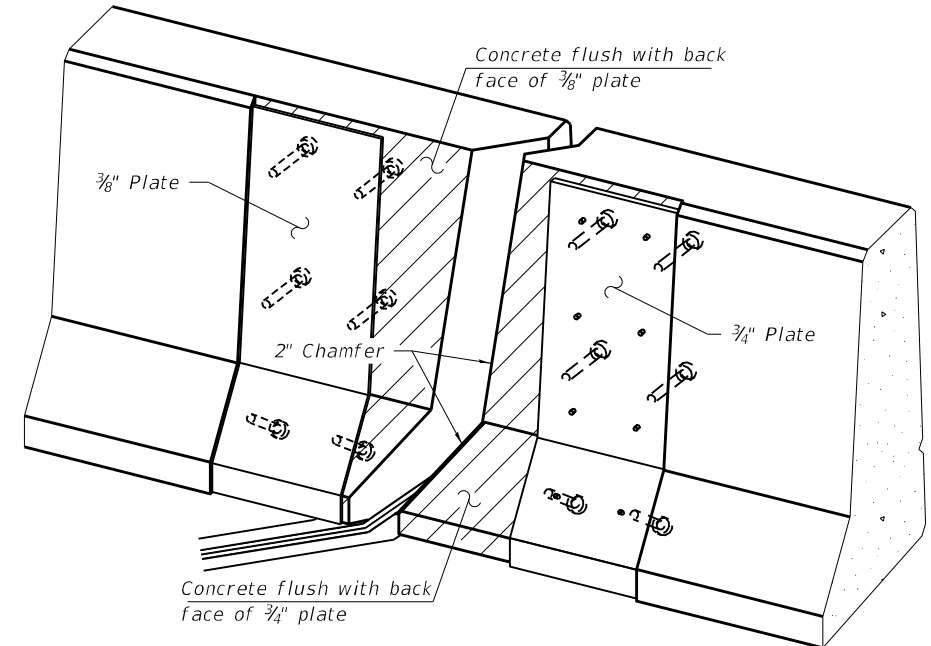


ELEVATION AT PARAPET

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

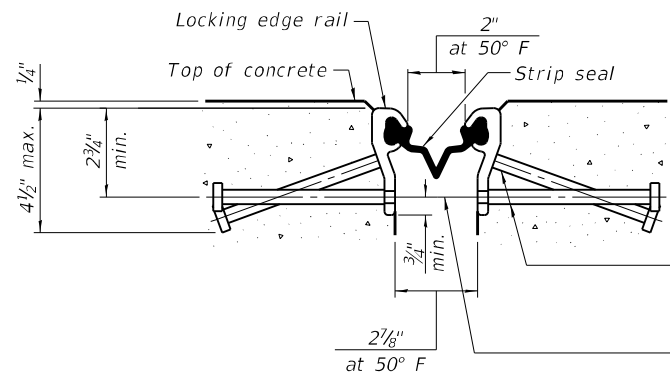


DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
 Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
 34" F-shape barrier shown, 42" F-shape similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



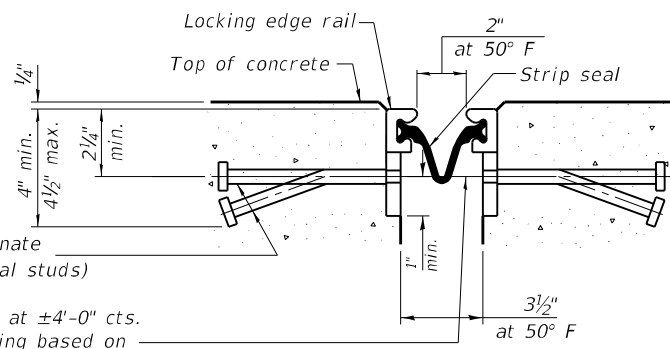
SHOWING ROLLED RAIL JOINT

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

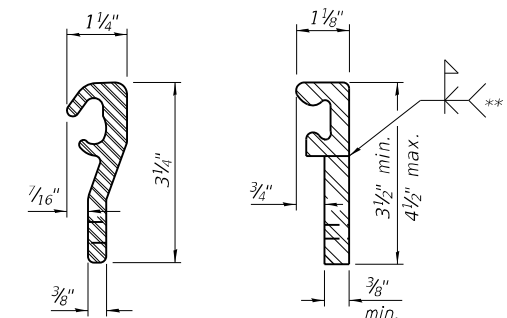
3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

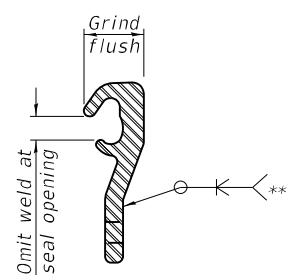


SHOWING WELDED RAIL JOINT



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	104

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 DRAWING: 026-0042
 SHEET: 5 OF 11
 DATE: 8/17/2022

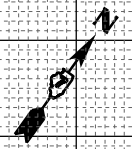
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PLOT DATE = 8/17/2022	CHECKED - D. Macklin	REVISED -
	DATE - April 2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL
 S.N. 026-0042**

SCALE: SHEET 5 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	



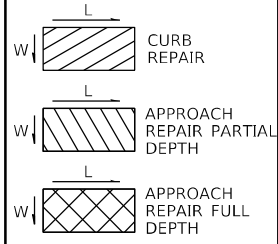
026-0042 West Span

Bk. of West
Appr. Bent.

Pier 1

PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
1	1.0	3.0	0.3	
2	1.0	4.0	0.4	
TOTALS			0.8	0
ROUND TO:			1.0	0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 9-2-2021
SURVEY BY: DPM & TMW
METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES
 DECK SLAB REPAIR (FULL DEPTH, TYPE 1) = 1.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH, TYPE 2) = 0 SQ YD
 APPROACH SLAB REPAIR (PARTIAL DEPTH) = 0 SQ YD
 APPROACH SLAB REPAIR (FULL DEPTH) = 0 SQ YD

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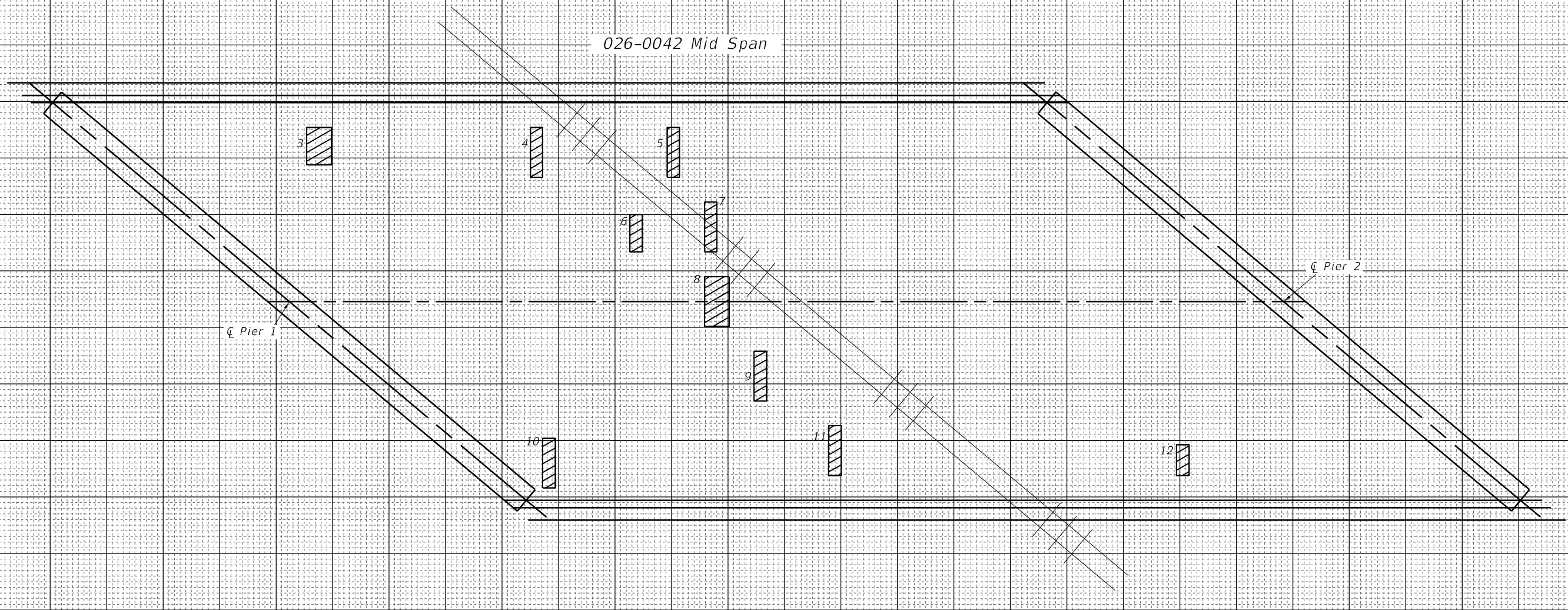
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PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK PATCHING & APPROACH REPAIR,
WEST SPAN SN. 026-0042**

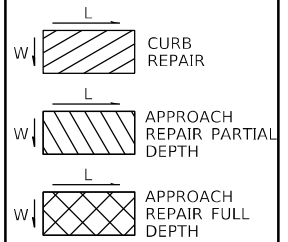
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	18
CONTRACT NO. 74A92			ILLINOIS FED. AID PROJECT	



PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
3	2.0	3.0		0.7
4	1.0	4.0	0.4	
5	1.0	4.0	0.4	
6	1.0	3.0	0.3	
7	1.0	4.0	0.4	
8	2.0	4.0		0.9
9	1.0	4.0	0.4	
10	1.0	4.0	0.4	
11	1.0	4.0	0.4	
12	1.0	2.5	0.3	
TOTALS			3.3	1.6
ROUND TO:			4.0	2.0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 9-2-2021
 SURVEY BY: DPM & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES
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 DECK SLAB REPAIR (FULL DEPTH, TYPE 2) = 2.0 SQ YD
 APPROACH SLAB REPAIR (PARTIAL DEPTH) = 0 SQ YD
 APPROACH SLAB REPAIR (FULL DEPTH) = 0 SQ YD

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	DATE - Sept. 2021	REVISED -

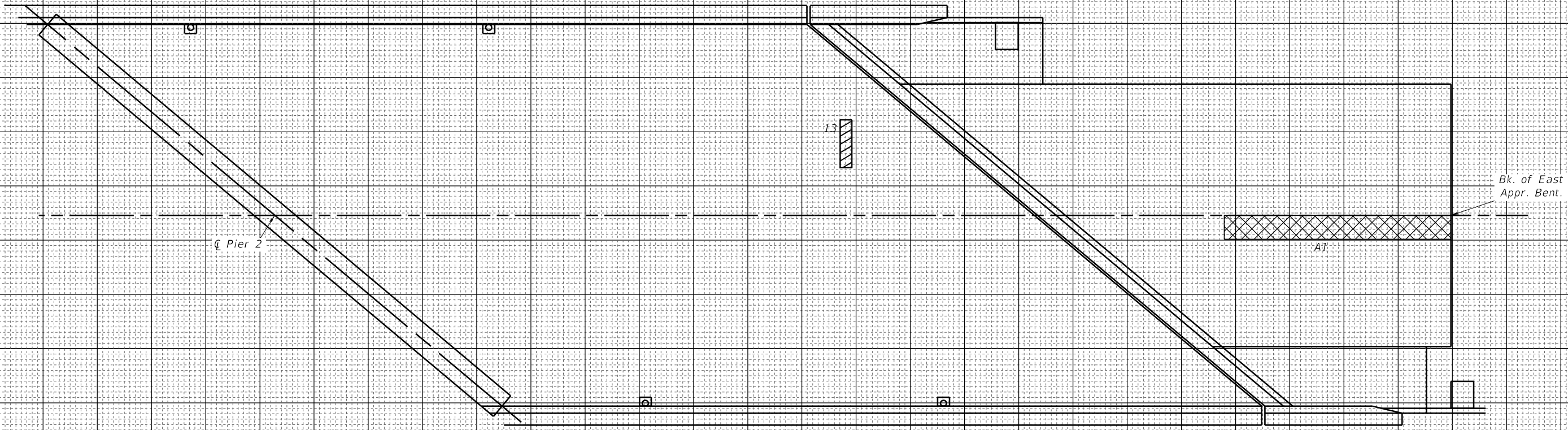
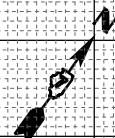
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK PATCHING & APPROACH REPAIR,
 MID SPAN SN. 026-0042**

SCALE: SHEET 7 OF 11 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	

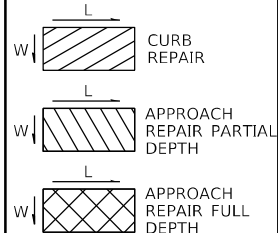
026-0042 East Span



PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
13	1.0	4.0	0.4	
TOTALS			0.4	0
ROUND TO:			1.0	0

PATCH NO.	SIZE		APPROACH SLAB REPAIR (PARTIAL DEPTH)	APPROACH SLAB REPAIR (FULL DEPTH)
	LENGTH	WIDTH	SQ YD	SQ YD
A1	19.0	2.0		4.2
TOTALS			0	4.2
ROUND TO:			0	5.0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 9-2-2021
 SURVEY BY: DPM & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES
 DECK SLAB REPAIR (FULL DEPTH, TYPE 1) = 1.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH, TYPE 2) = 0 SQ YD
 APPROACH SLAB REPAIR (PARTIAL DEPTH) = 0 SQ YD
 APPROACH SLAB REPAIR (FULL DEPTH) = 5.0 SQ YD

MODEL: Default
 FILE NAME: p:\w\p\w\benleyz.com\FW\DOT\Documents\DOT\Offices\District 7\Projects\7499\CAD\Drawings\026-0042-0043- & 0045- & 0046 Bridge Repair.dgn

USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 8/17/2022	CHECKED - D. Macklin	REVISED -
	DATE - Sept. 2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BRIDGE DECK PATCHING & APPROACH REPAIR, EAST SPAN SN. 026-0042			
SCALE:	SHEET 8	OF 11 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	20
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

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

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

Fasteners shall be high strength bolts. Bolts $\frac{3}{4}"\text{Ø}$, open holes $1\frac{3}{16}"\text{Ø}$, unless otherwise noted.

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

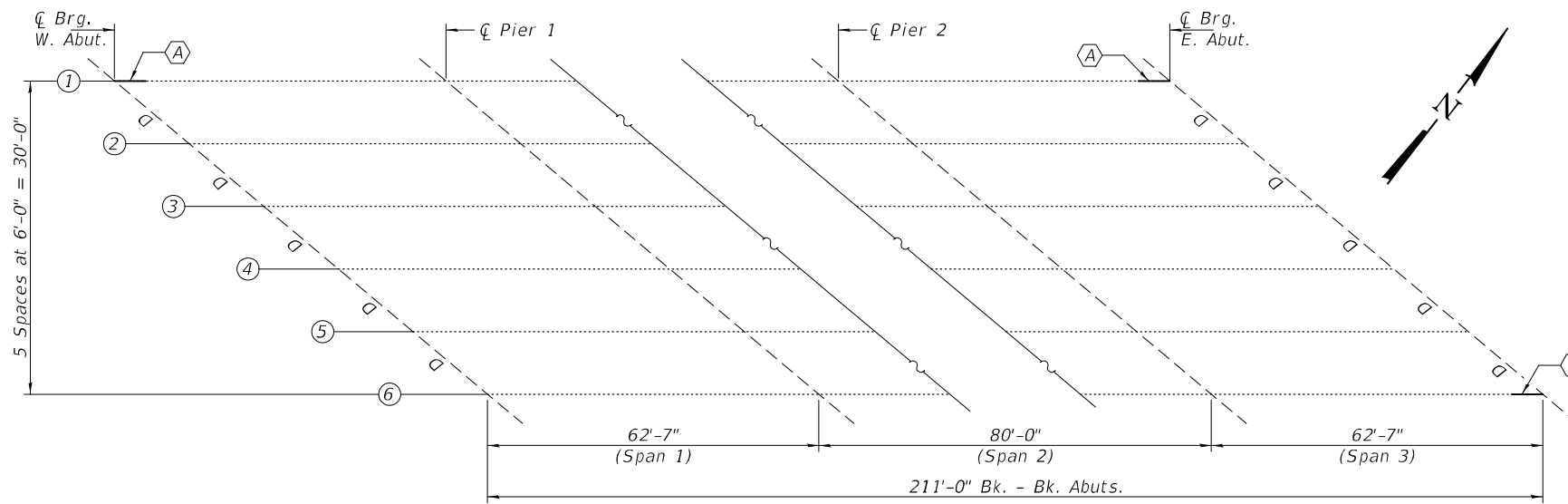
All new structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".

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

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and specified in the Special Provisions shall be included with Structural Steel Repair.

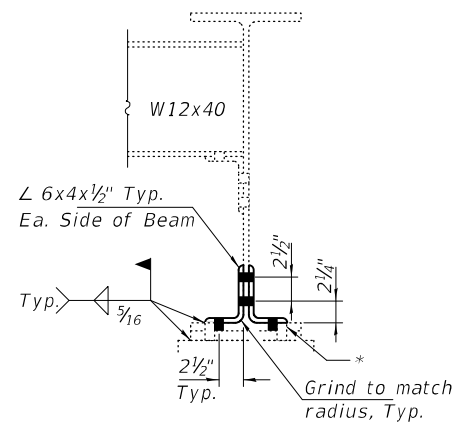
Diaphragm connection holes shall be $1\frac{5}{16}"\text{Ø}$ for $\frac{3}{4}"\text{Ø}$ bolts. Two hardened washers shall be required at diaphragm connections.

Trim diaphragms as required for proper fit.



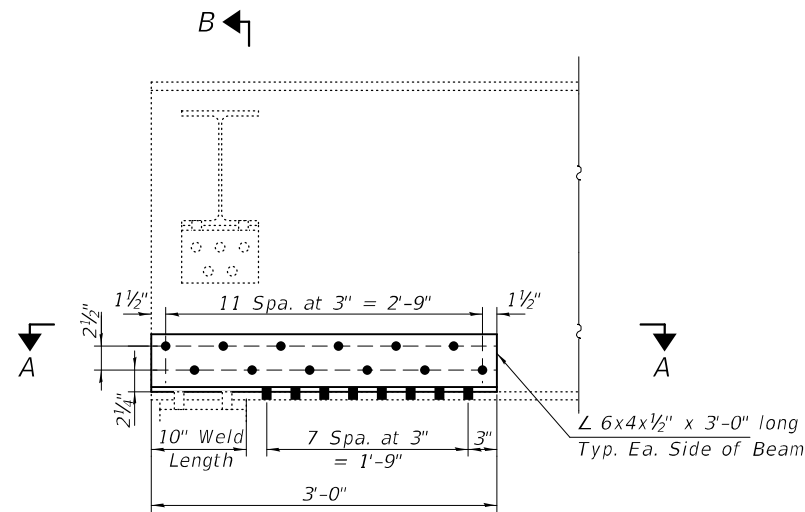
- Ⓐ - Beam End Repair A
- Ⓑ - Beam End Repair B

PARTIAL PLAN

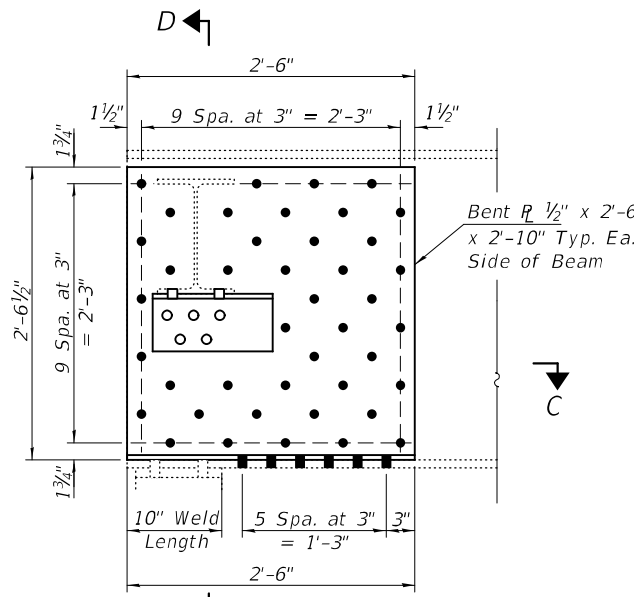


SECTION B-B

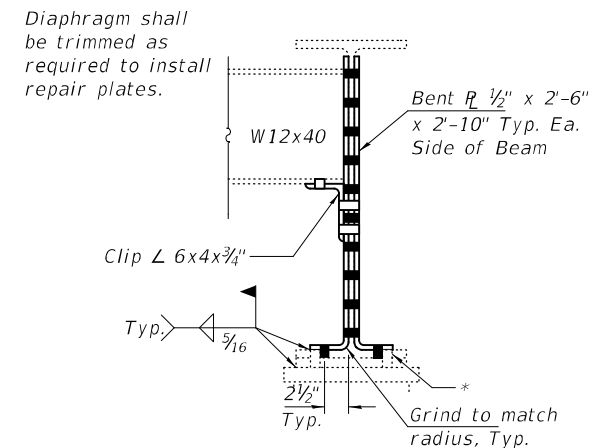
* Existing studs shall be cut and ground smooth to the top of the bottom flange.



REPAIR A
(2 Locations)



REPAIR B
(1 Location)



SECTION D-D

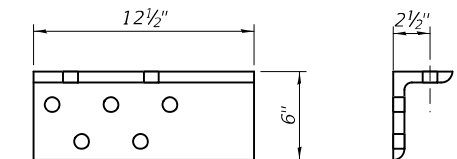
Diaphragm shall be trimmed as required to install repair plates.

Bent P $\frac{1}{2}"\text{ x }2'-6"$
 $\text{x }2'-10"$ Typ. Ea.
Side of Beam

Clip L $6\text{x}4\text{x}\frac{3}{4}"$

Typ. $\frac{3}{16}"$

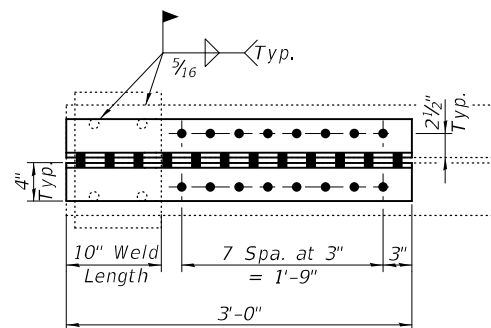
Grind to match radius, Typ.



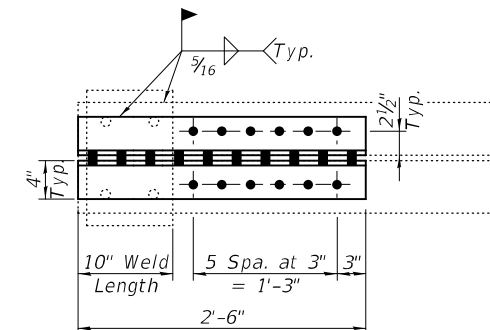
CLIP ANGLE DETAILS

L $6\text{x}4\text{x}\frac{3}{4}"\text{ x }12\frac{1}{2}"\text{ long}$
(1 Required)

- BOLT HOLE LEGEND**
- - Field drill using Existing steel as template.
 - - Field drill using new steel as template.



SECTION A-A



SECTION C-C

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	580

DESIGNED - Jeffrey Burke
 CHECKED - Steven M. Ryan
 DRAWN - Venkat Ramana Reddy V
 CHECKED - JSB SMR

PASSED
 ENGINEER OF BRIDGES AND STRUCTURES

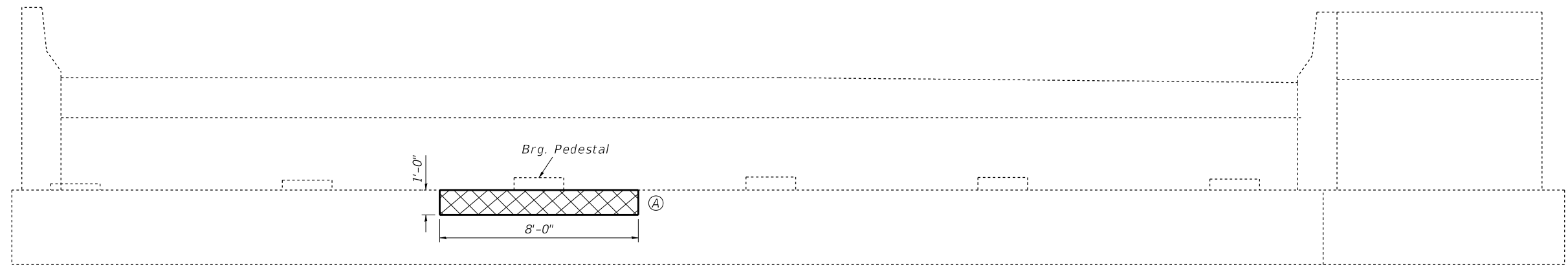
DATE - OCTOBER 03, 2022
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

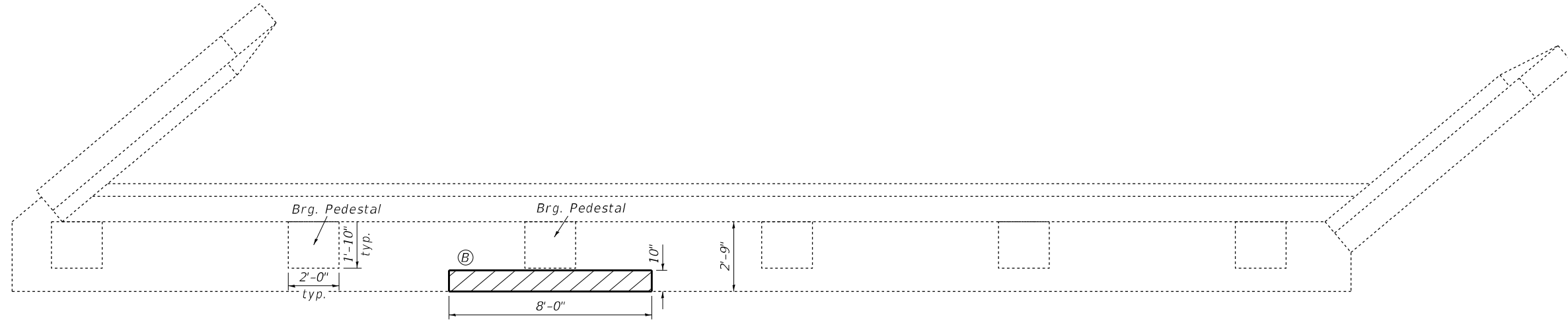
BEAM END REPAIR DETAILS
 SN 026 - 0042

SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 Bridge Repairs 2023-6	FAYETTE	50	21
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				



ELEVATION OF EAST ABUTMENT
Looking East



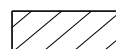
TOP VIEW OF EAST ABUTMENT

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.

Do not disturb Bearing Pedestals.



Structural Repair of Concrete (Depth \leq 5")



Structural Repair of Concrete (Depth $>$ 5")

STRUCTURAL REPAIR OF CONCRETE

Patch No.	Depth \leq 5"	Depth $>$ 5"
	SqFt	SqFt
A		8.0
B	6.7	
Total	7.0	8.0

MODEL: Default
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 PROJECT: 74A92

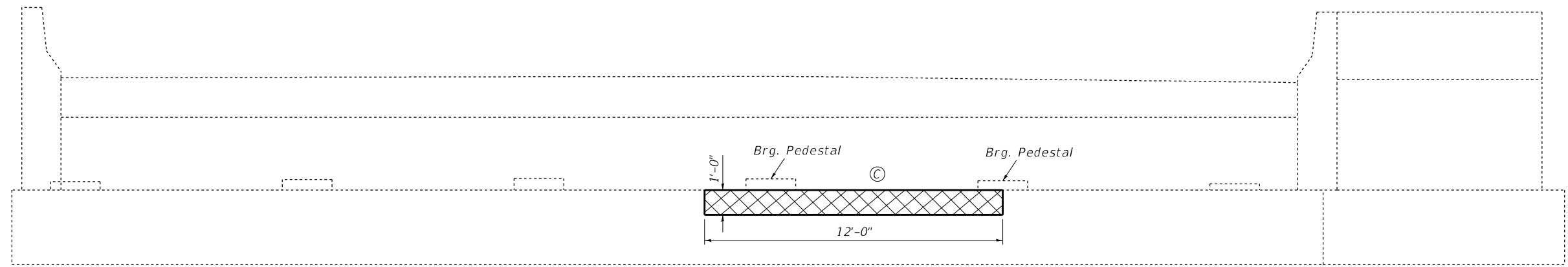
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	DRAWN - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

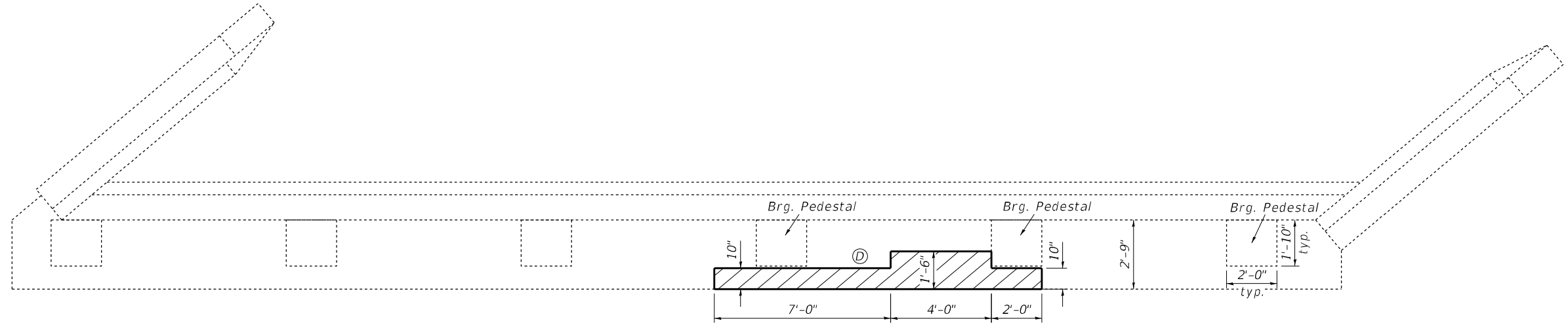
STRUCTURAL REPAIR OF CONCRETE EAST ABUTMENT
S.N. 026-0042

SCALE: SHEET 10 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	



ELEVATION OF WEST ABUTMENT
Looking West



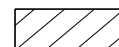
TOP VIEW OF WEST ABUTMENT

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.

Do not disturb Bearing Pedestals.



Structural Repair of Concrete (Depth ≤ 5'')



Structural Repair of Concrete (Depth > 5'')

STRUCTURAL REPAIR OF CONCRETE

Patch No.	Depth ≤ 5"	Depth > 5"
	SqFt	SqFt
C		12.0
D	12.8	
Total	13.0	12.0

MODEL: Default
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 PROJECT: 74A92

USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
	DRAWN - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISED -

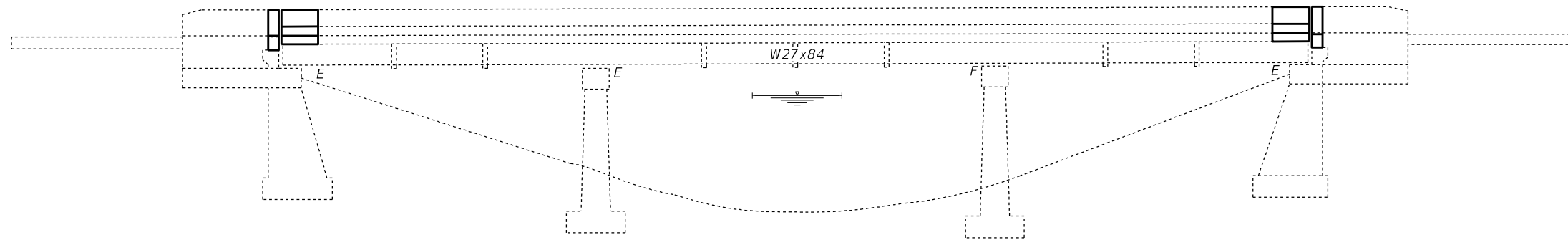
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL REPAIR OF CONCRETE WEST ABUTMENT
S.N. 026-0042

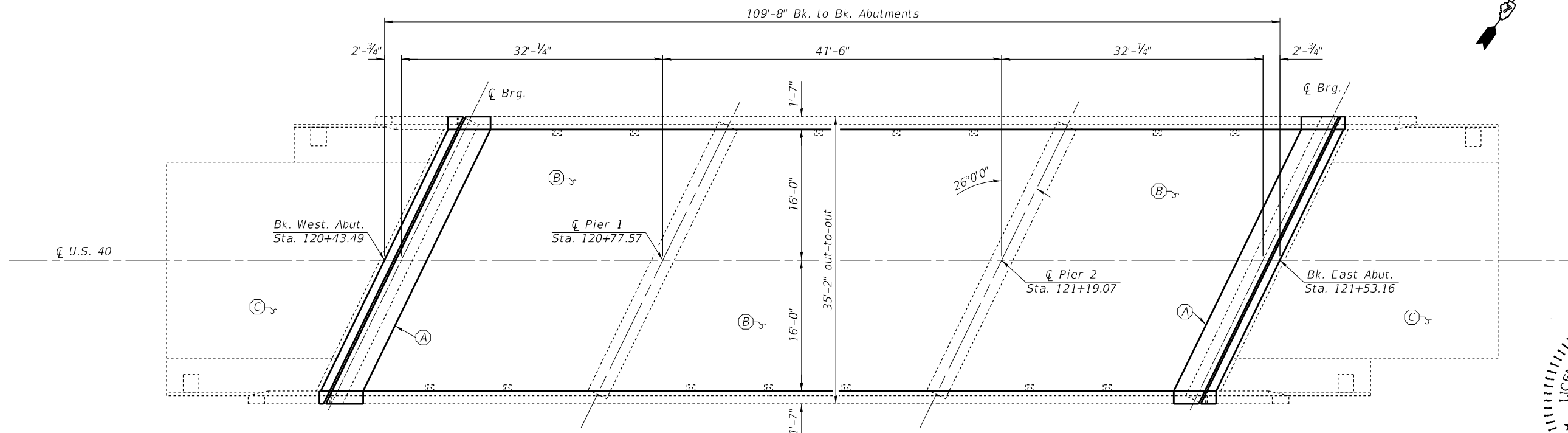
SCALE: SHEET 11 OF 11 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	

Existing Structure: SN. 026-0044 carries U.S. Rte 40 (FAS 1751) over Hurricane Creek Overflow. The existing three span steel beam superstructure was constructed in 1991 and substructure was constructed in 1943. The proposed project consists of replacement of existing expansion joints with strip seals, bridge deck scarification, deck & approach patching, & bridge deck overlay. Construction shall be completed using full road closure.

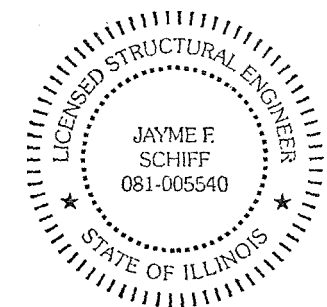


ELEVATION



PLAN

- (A) - Remove Existing Expansion Joints and Replace with Strip Seal Expansion Joint & Structural Steel Repair
- (B) - Bridge Deck Scarification, $\frac{3}{4}$ " Deck Patching, & Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, $2\frac{1}{4}$ "
- (C) - Approach Slab Patching & See Roadway Plans for Overlay



EXPIRES 11-30-2022

Jayme F. Schiff

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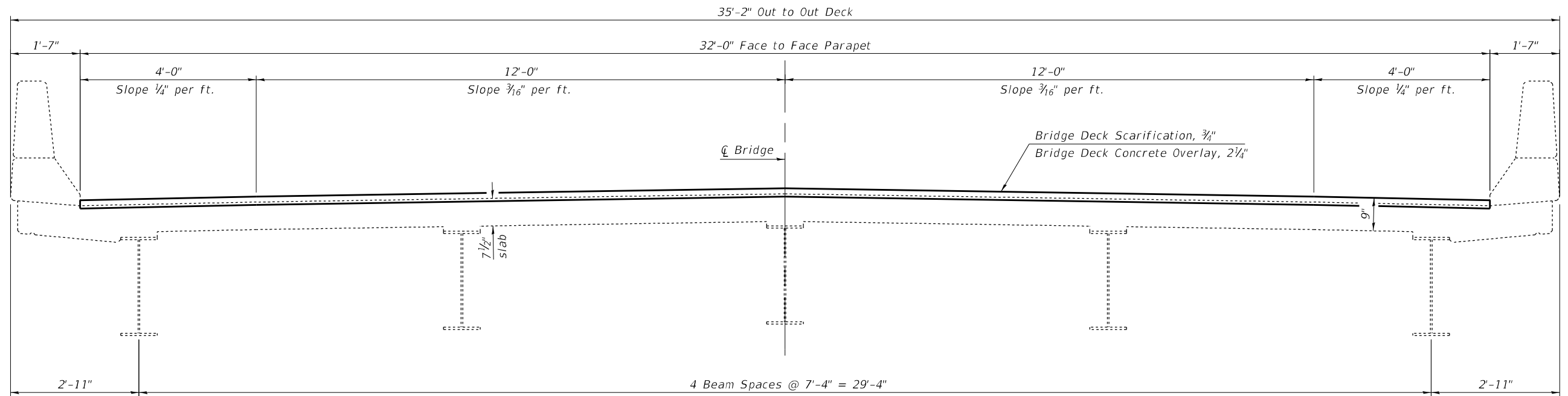
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PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
S.N. 026-0044

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	



DECK CROSS SECTION

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.

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 operations 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 Standard Specifications when the deck is poured at an ambient temperature other than 50 °F.

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.

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.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	14.3
Concrete Superstructure	Cu. Yd.	15.6
Reinforcement Bars, Epoxy Coated	Pound	2,490
Bridge Deck Grooving	Sq. Yd.	331
Bridge Deck Scarification, 3/4"	Sq. Yd.	355
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/4"	Sq. Yd.	355
Prefomed Joint Strip Seal	Foot	76
Protective Coat	Sq. Yd.	395
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2.0
Approach Slab Repair (Partial Depth)	Sq. Yd.	7.0
Structural Steel Repair	Pound	190

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PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISED -

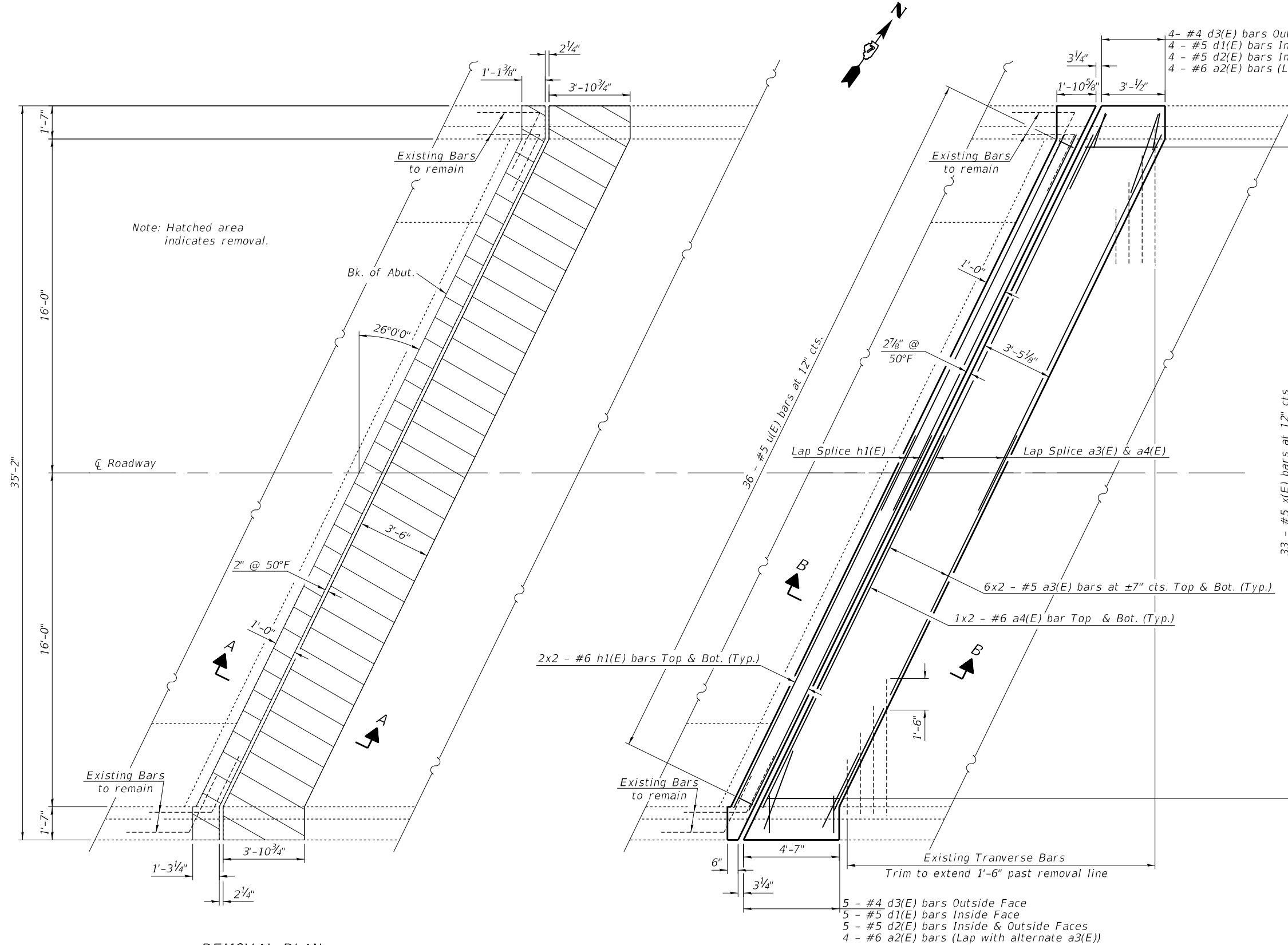
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK CROSS SECTION, GENERAL NOTES &
BILL OF MATERIALS S.N. 026-0044**

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	

For Section A-A and B-B, See sheet 4 of 7



Note: Hatched area indicates removal.

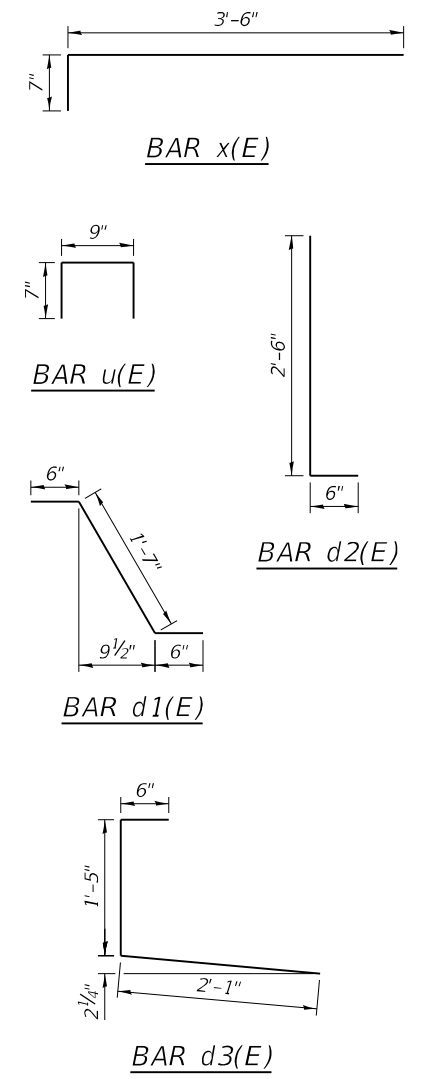
REMOVAL PLAN

West Abutment Shown
East Abutment Similar by Rotation

REINFORCEMENT PLAN

West Abutment Shown
East Abutment Similar by Rotation

Minimum Bar Lap
#5 Bar = 3'-6"
#6 Bar = 4'-0"



BILL OF MATERIAL - TWO ABUTMENTS

Bar	No.	Size	Length	Shape
a3(E)	48	#5	20'-0"	—
a4(E)	8	#6	20'-10"	—
a2(E)	16	#6	4'-0"	—
h1(E)	16	#6	21'-0"	—
d3(E)	18	#4	4'-0"	└
d1(E)	18	#5	2'-7"	∩
d2(E)	36	#5	3'-0"	└
u(E)	72	#5	1'-11"	□
x(E)	66	#5	4'-1"	└
ITEM		UNIT	QUANTITY	
Concrete Removal		Cu. Yd.	14.3	
Concrete Superstructure		Cu. Yd.	15.6	
Reinforcement Bars, Epoxy Coated		Pound	2,490	

Bars indicated thus "6x2 - #5 etc." indicates 6 lines with 2 lengths per line.

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 PLOT DATE: 8/17/2022
 PROJECT: 74992
 SHEET: 50 OF 50
 CONTRACT: 74992

USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
DRAWN - T. Walk	REVISED -	
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PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISED -

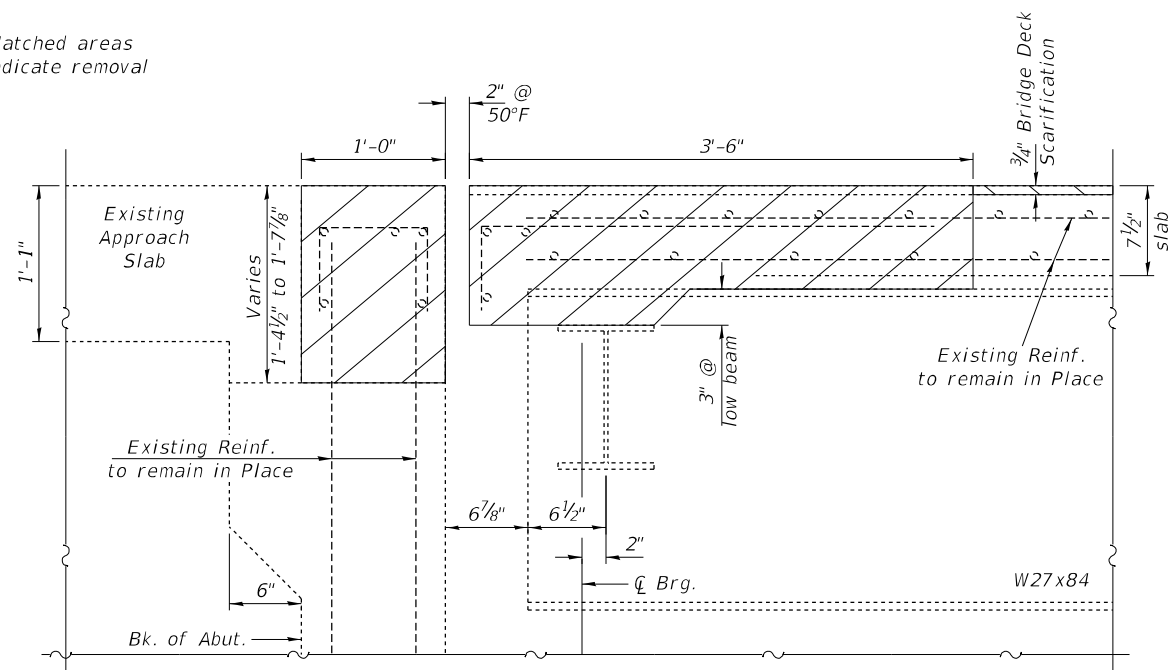
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAILS
S.N. 026-0044**

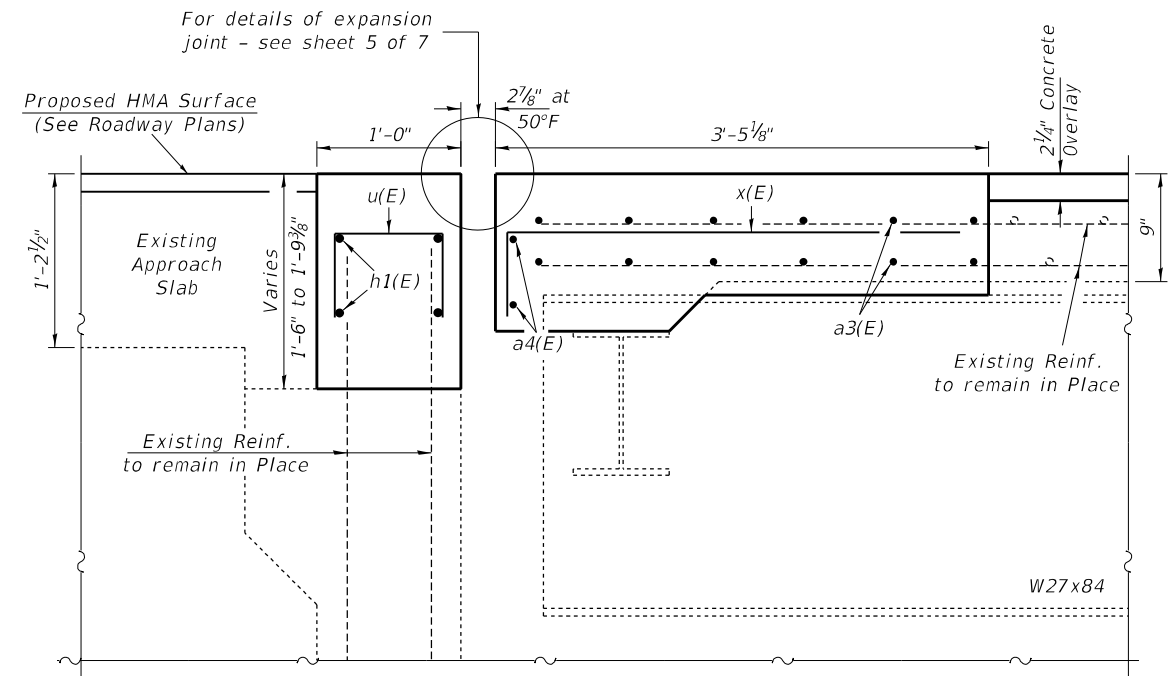
SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	26
CONTRACT NO. 74992			ILLINOIS FED. AID PROJECT	

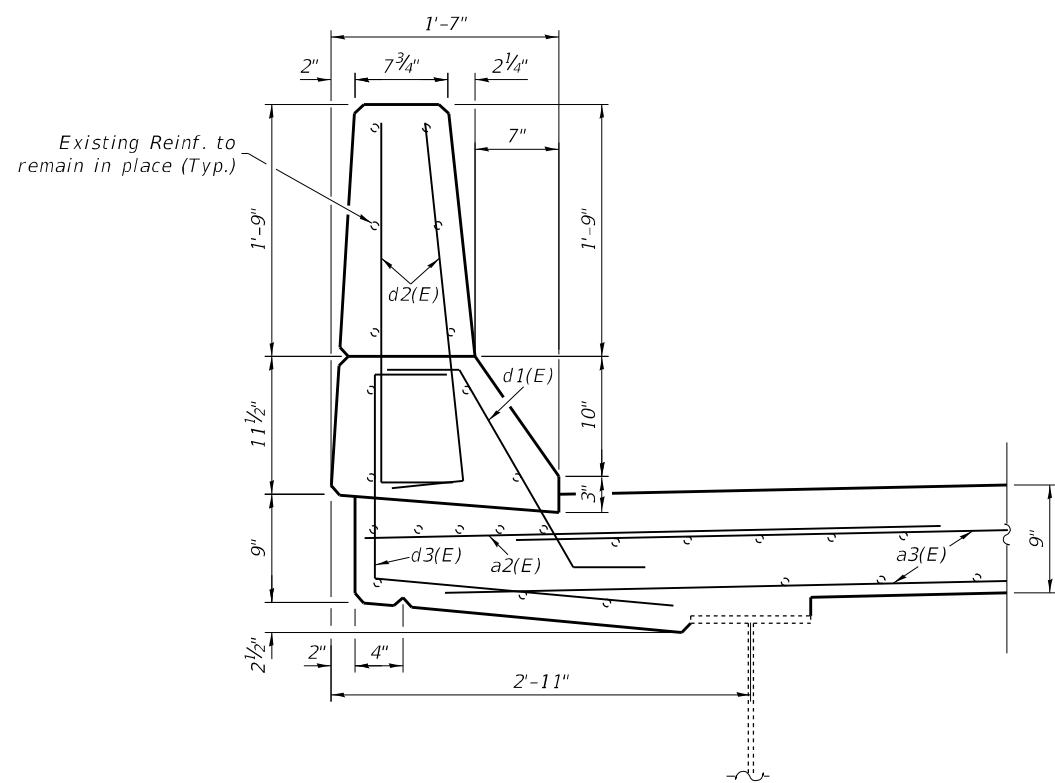
Note: Hatched areas indicate removal



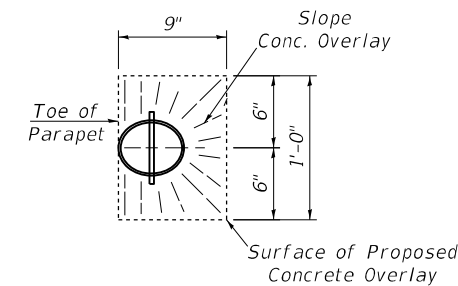
SECTION A-A



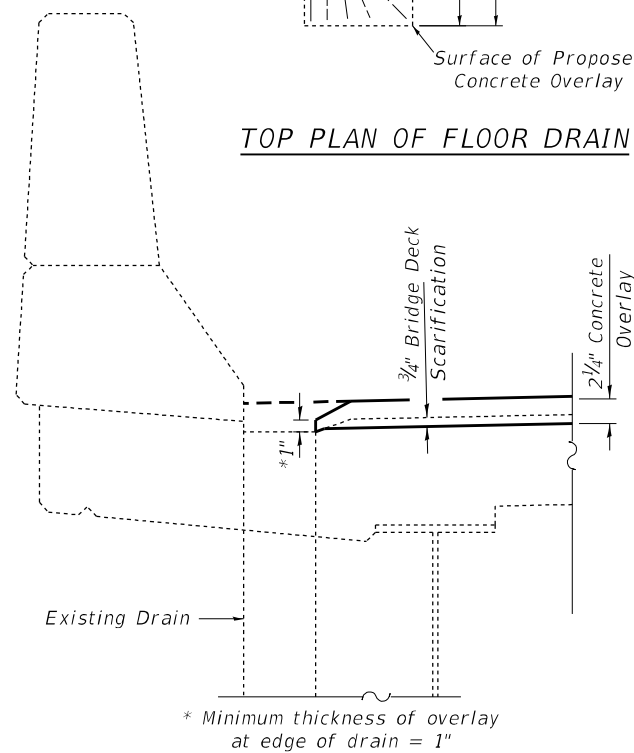
SECTION B-B



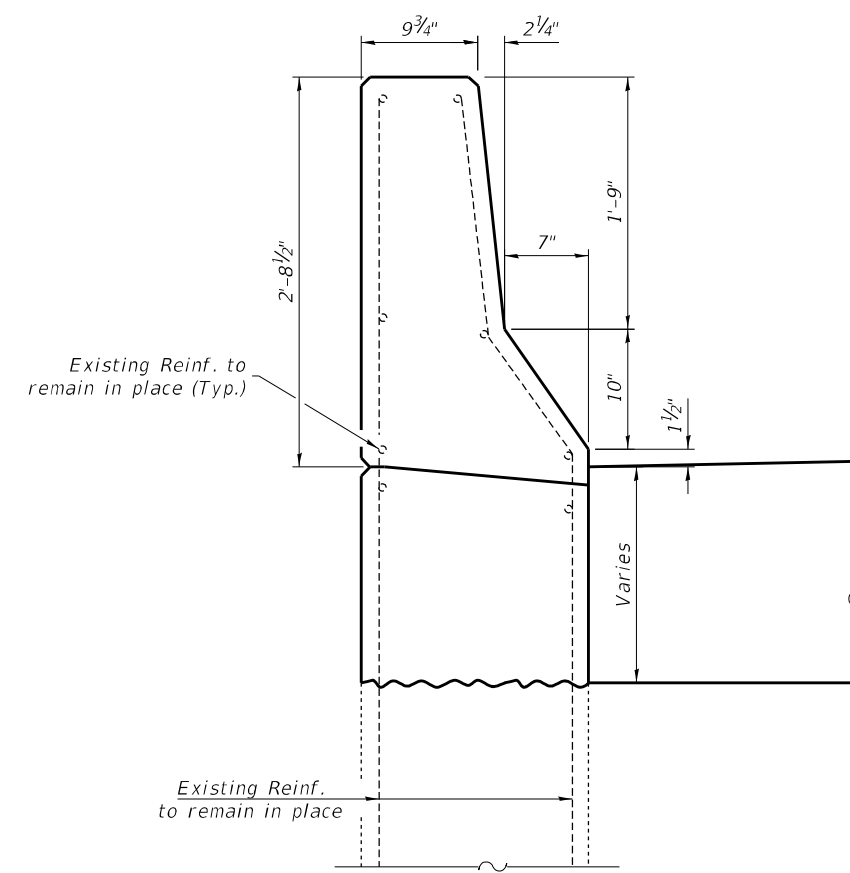
SECTION THRU DECK PARAPET



TOP PLAN OF FLOOR DRAIN



FLOOR DRAIN PRESERVATION



SECTION THRU APPROACH PARAPET

MODEL: Default
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 PROJECT: 74A92
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 PLOT DATE: 8/17/2022

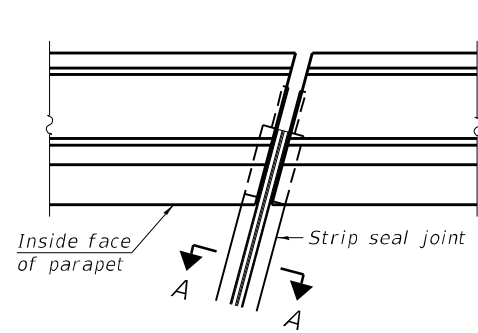
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DRAWN - T. Walk	REVISIONS -	
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PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAILS
S.N. 026-0044**

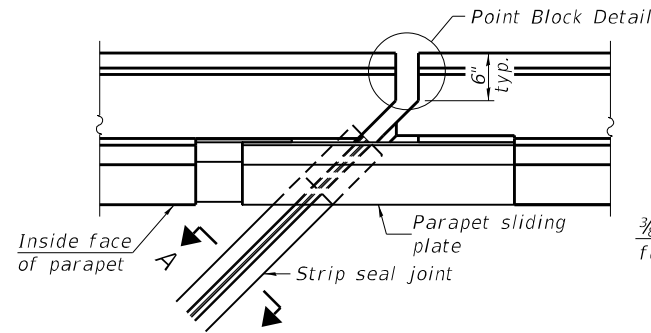
SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	27
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

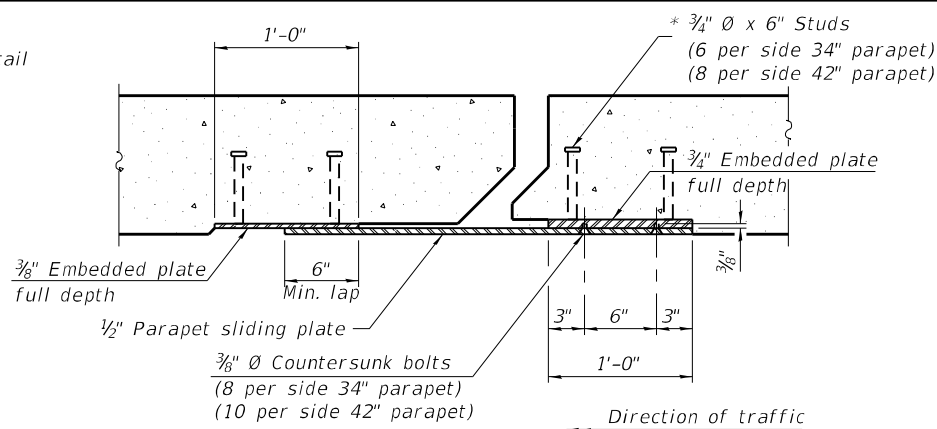


FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET

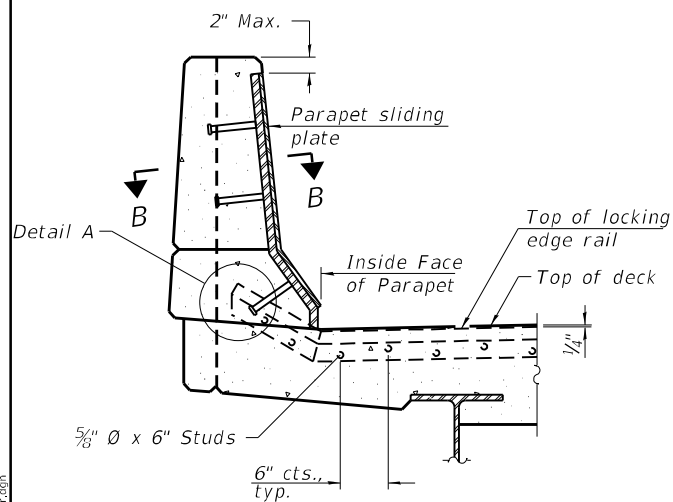


FOR SKEWS $> 30^\circ$



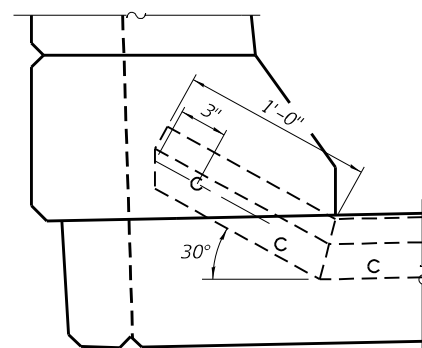
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

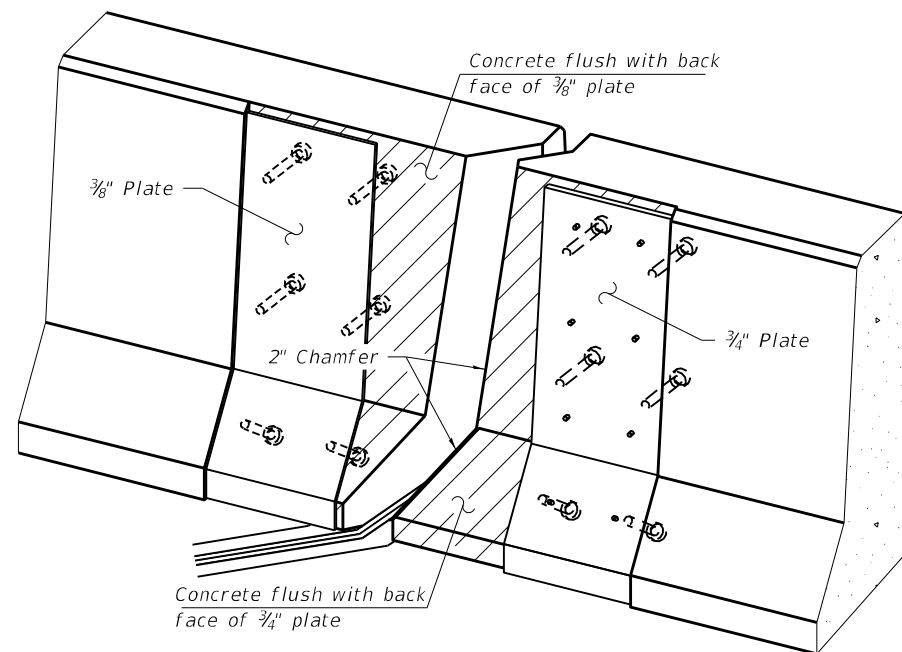


ELEVATION AT PARAPET

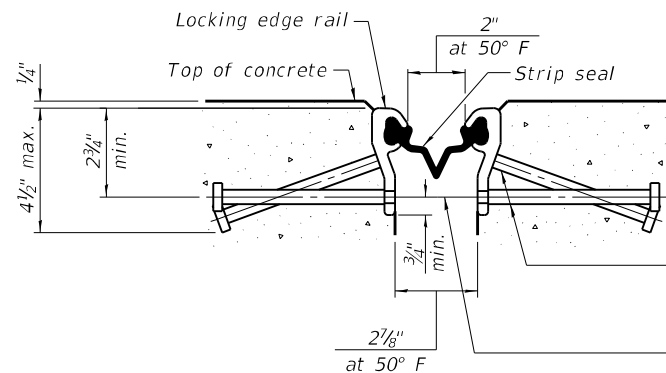
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
 (Showing embedded plates only)



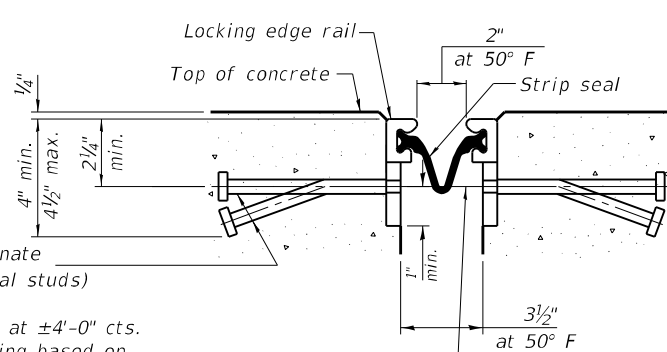
SHOWING ROLLED RAIL JOINT

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

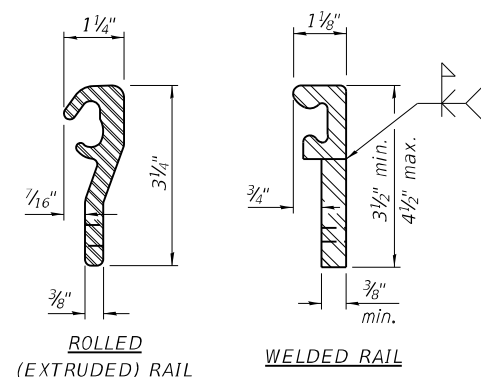
3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

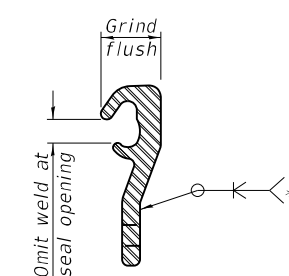


SHOWING WELDED RAIL JOINT



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	76

MODEL: Default
 FILE: 30416_PrefabricatedParapetStripSeal.dwg
 PROJECT: 74A92
 DRAWING: 026-0042, 0044, 0045, & 0046 Bridge Repair.dwg
 DATE: 8/17/2022

USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 8/17/2022	CHECKED - D. Macklin	REVISED -
	DATE - Sept. 2021	REVISED -

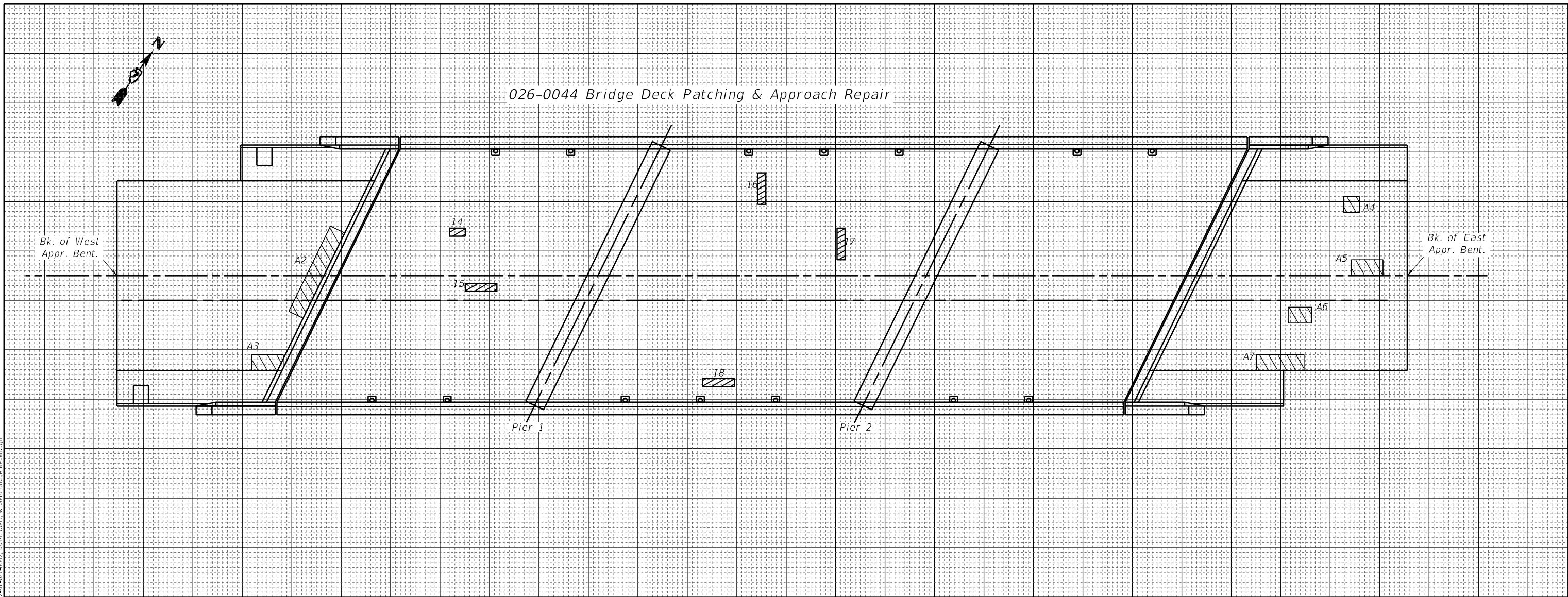
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL
 S.N. 026-0044**

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	

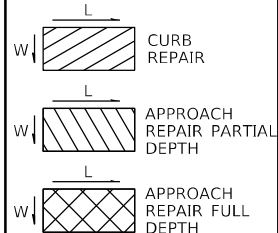
026-0044 Bridge Deck Patching & Approach Repair



PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I)	DECK SLAB REPAIR (FD TY II)
	LENGTH	WIDTH	SQ YD	SQ YD
14	2.0	1.0	0.2	
15	4.0	1.0	0.4	
16	1.0	4.0	0.4	
17	1.0	4.0	0.4	
18	4.0	1.0	0.4	
TOTALS			2.0	0
ROUND TO:			2.0	0

PATCH NO.	SIZE		APPROACH SLAB REPAIR (PARTIAL DEPTH)	APPROACH SLAB REPAIR (FULL DEPTH)
	LENGTH	WIDTH	SQ YD	SQ YD
A2	2.0	12.0	2.7	
A3	4.0	2.0	0.9	
A4	2.0	2.0	0.4	
A5	4.0	2.0	0.9	
A6	3.0	2.0	0.7	
A7	6.0	2.0	1.3	
TOTALS			6.9	0
ROUND TO:			7.0	0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 9-2-2021
 SURVEY BY: DPM & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES
 DECK SLAB REPAIR (FULL DEPTH, TYPE 1) = 2.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH, TYPE 2) = 0 SQ YD
 APPROACH SLAB REPAIR (PARTIAL DEPTH) = 7.0 SQ YD
 APPROACH SLAB REPAIR (FULL DEPTH) = 0 SQ YD

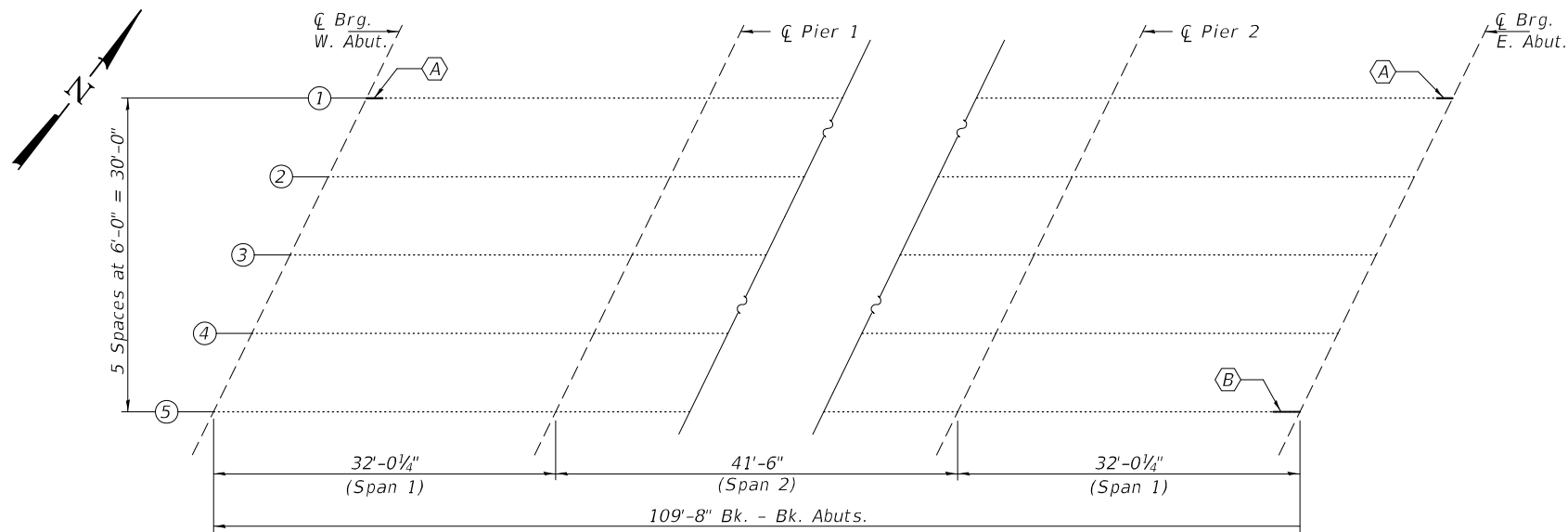
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USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 8/17/2022	CHECKED - D. Macklin	REVISED -
	DATE - Sept. 2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING & APPROACH REPAIR			
SN. 026-0044			
SCALE:	SHEET 6	OF 7 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	29
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

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

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

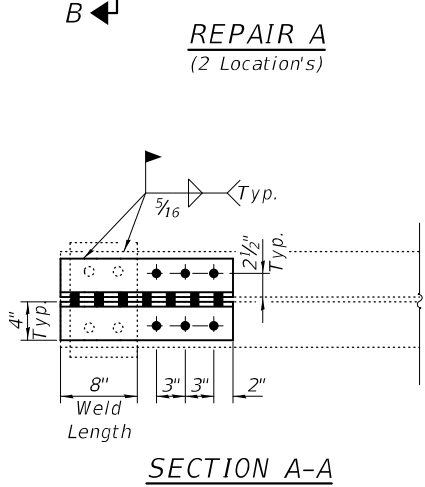
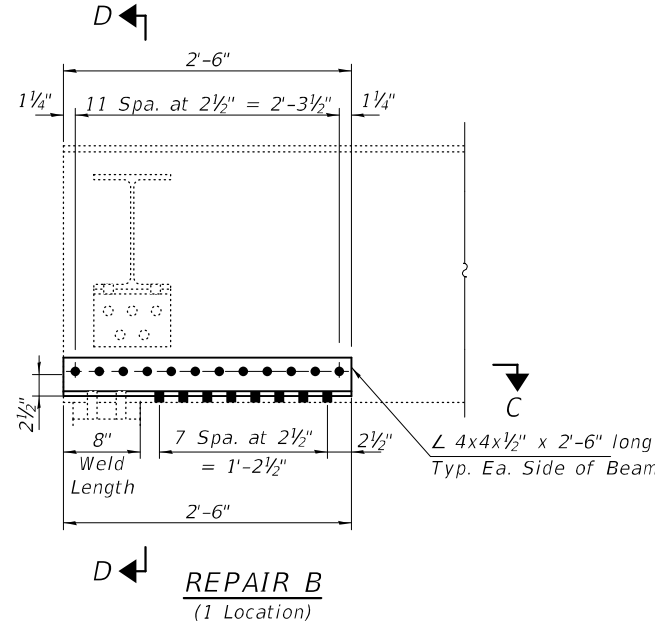
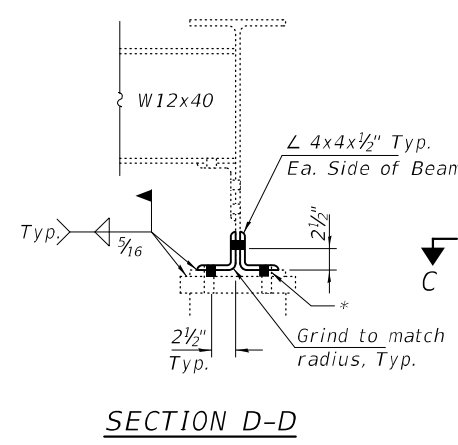
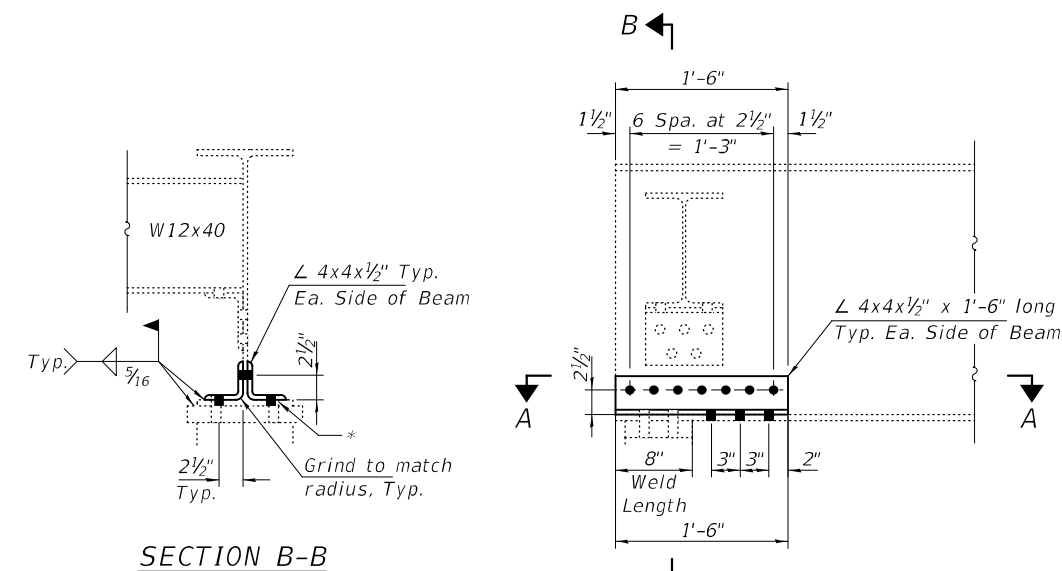
Fasteners shall be high strength bolts. Bolts 3/4"Ø, open holes 13/16"Ø, unless otherwise noted.

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

All new structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel."

- (A) - Beam End Repair A
- (B) - Beam End Repair B

PARTIAL PLAN



BOLT HOLE LEGEND

- - Field drill using Existing steel as template.
- - Field drill using new steel as template.

* Existing studs shall be cut and ground smooth to the top of the bottom flange.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	190

DESIGNED - Jeffrey Burke	PASSED	DATE - OCTOBER 03, 2022
CHECKED - Steven M. Ryan		REVISD -
DRAWN - Venkat Ramana Reddy V		REVISD -
CHECKED - JSB SMR		

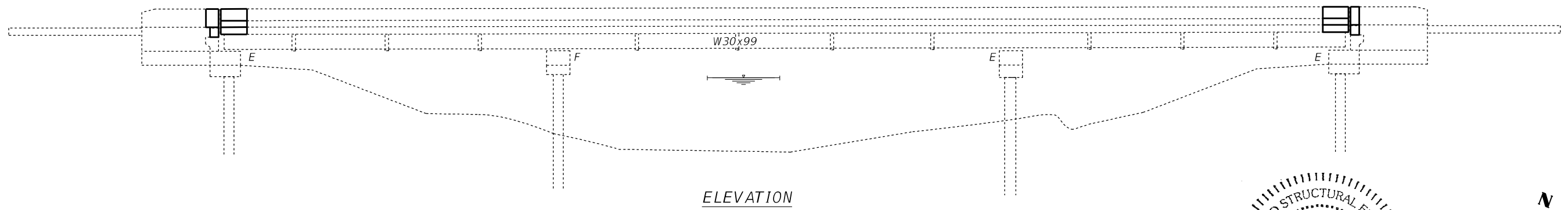
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM END REPAIR DETAILS
SN 026 - 0044

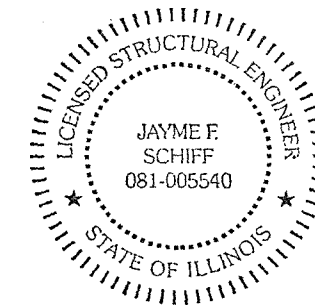
SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

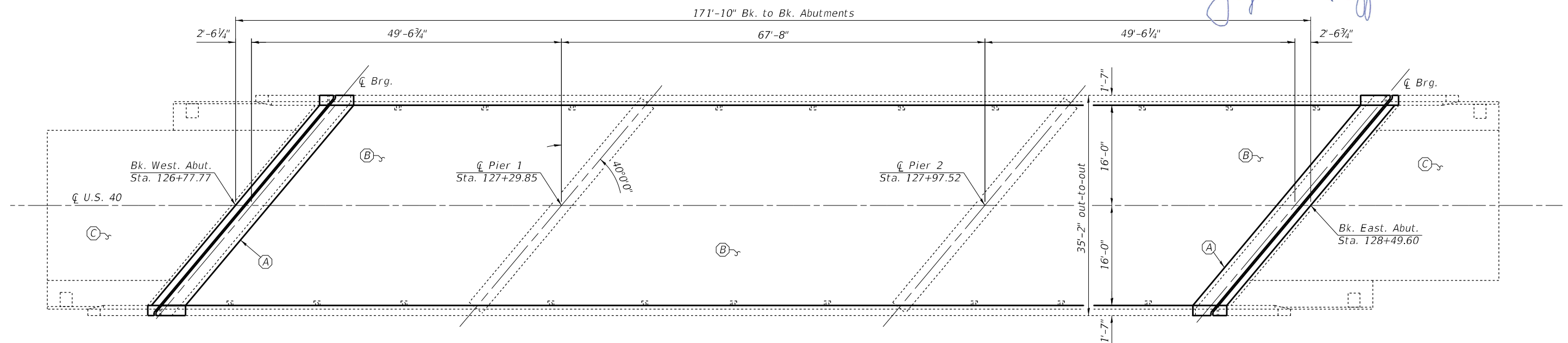
Existing Structure: SN. 026-0045 carries U.S. Rte 40 (FAS 1751) over Hurricane Creek Branch. The existing three span steel beam superstructure was constructed in 1991 and substructure was constructed in 1943. The proposed project consists of replacement of existing expansion joints with strip seals, bridge deck scarification, deck & approach patching, & bridge deck overlay. Construction shall be completed using full road closure.



ELEVATION



EXPIRES 11-30-2022
Jayme F. Schiff



PLAN

- (A) - Remove Existing Expansion Joints and Replace with Strip Seal Expansion Joint
- (B) - Bridge Deck Scarification, 3/4", Deck Patching, & Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/4"
- (C) - Approach Slab Patching & See Roadway Plans for Overlay

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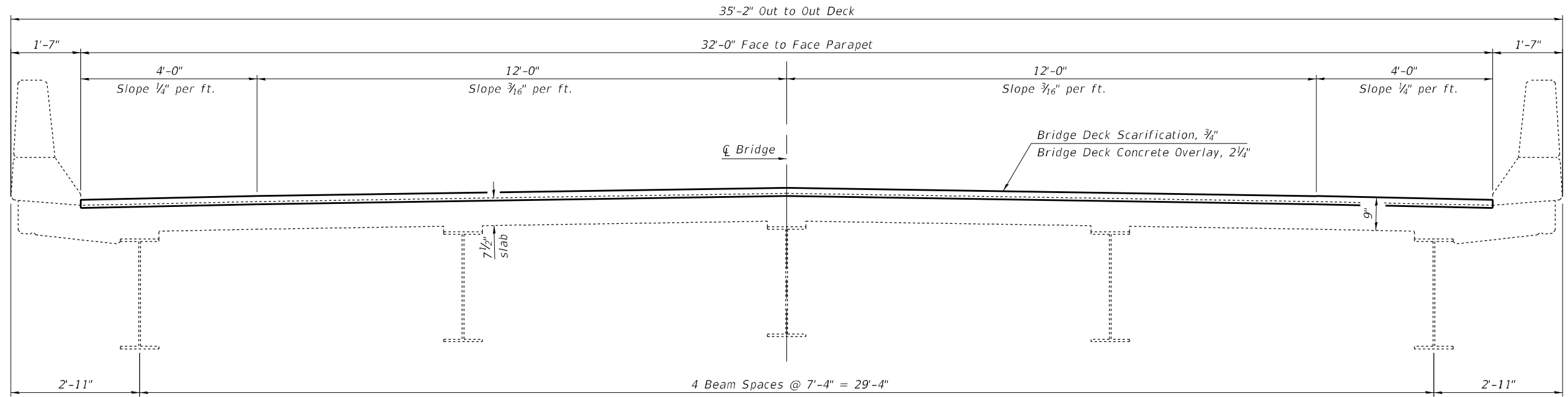
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	DRAWN - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 8/17/2022	DATE - Sept, 2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 S.N. 026-0045

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	31
CONTRACT NO. 74A92			ILLINOIS FED. AID PROJECT	



DECK CROSS SECTION

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.

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 operations 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 Standard Specifications when the deck is poured at an ambient temperature other than 50 °F.

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.

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.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	16.0
Concrete Superstructure	Cu. Yd.	17.0
Reinforcement Bars, Epoxy Coated	Pound	2,550
Bridge Deck Grooving	Sq. Yd.	540
Bridge Deck Scarification, 3/4"	Sq. Yd.	575
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/4"	Sq. Yd.	575
Preformed Joint Strip Seal	Foot	88
Protective Coat	Sq. Yd.	615
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2.0
Approach Slab Repair (Full Depth)	Sq. Yd.	11.0

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	DATE - Sept. 2021	REVISED -

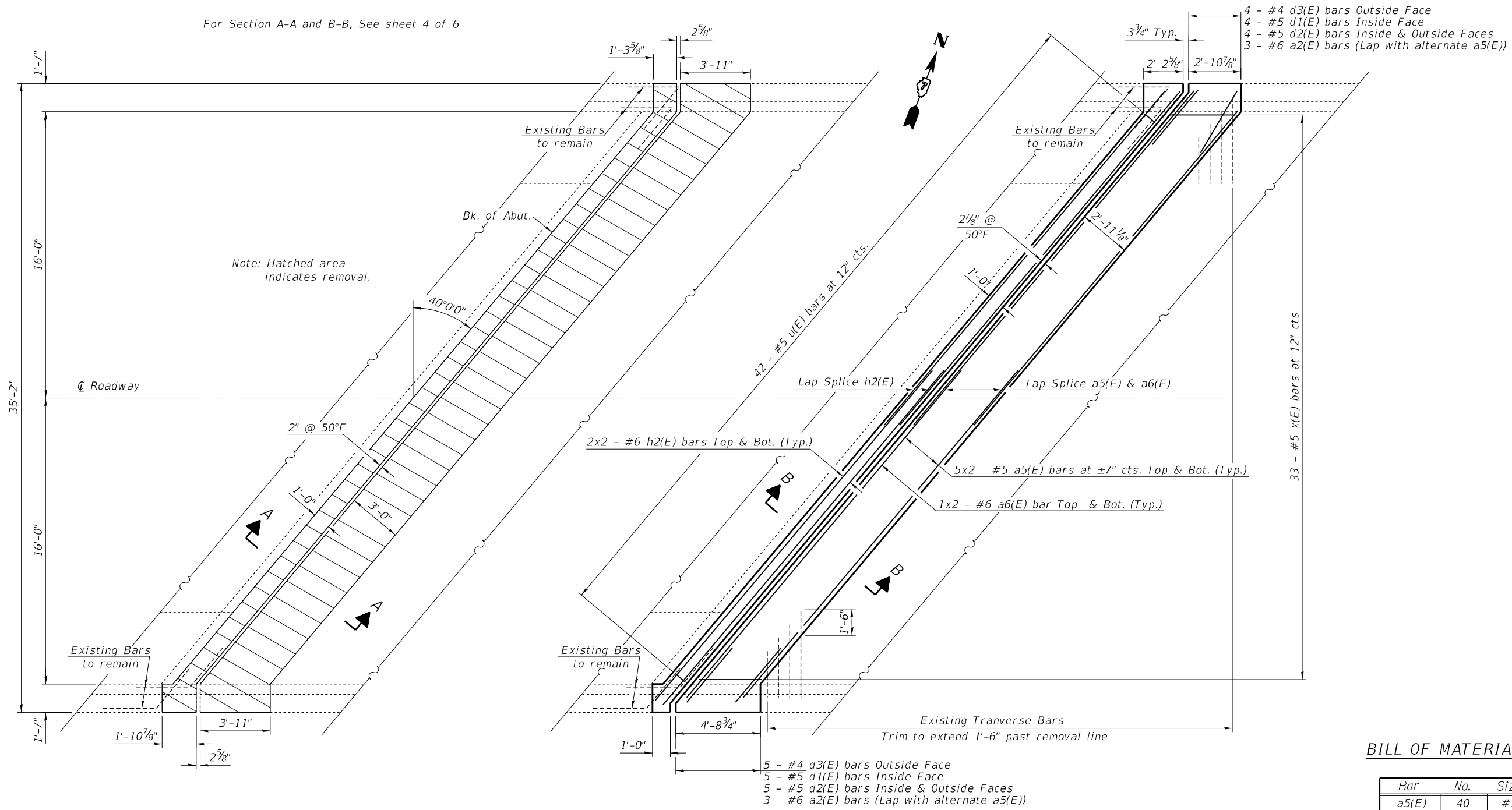
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK CROSS SECTION, GENERAL NOTES &
BILL OF MATERIALS S.N. 026-0045**

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	

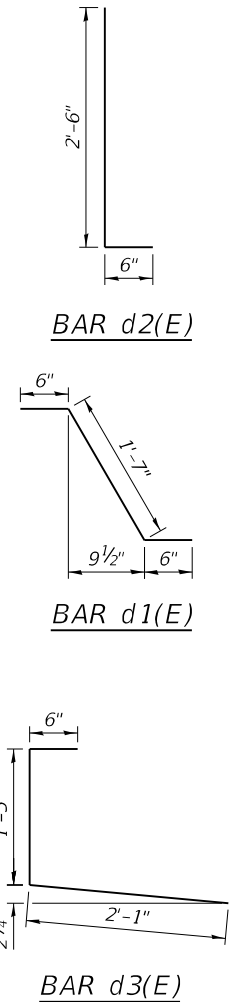
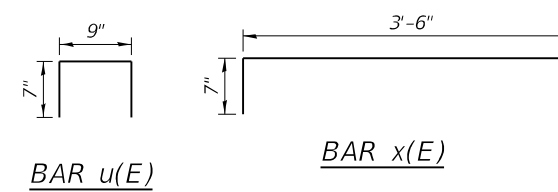
For Section A-A and B-B, See sheet 4 of 6



REMOVAL PLAN
West Abutment Shown
East Abutment Similar by Rotation

REINFORCEMENT PLAN
West Abutment Shown
East Abutment Similar by Rotation

Minimum Bar Lap
#5 Bar = 3'-6"
#6 Bar = 4'-0"



BILL OF MATERIAL - TWO ABUTMENTS

Bar	No.	Size	Length	Shape
a5(E)	40	#5	22'-6"	—
a6(E)	8	#6	24'-0"	—
a2(E)	12	#6	4'-0"	—
h2(E)	16	#6	24'-5"	—
d3(E)	18	#4	4'-0"	┌
d1(E)	18	#5	2'-7"	┘
d2(E)	36	#5	3'-0"	┘
u(E)	84	#5	1'-11"	U
x(E)	66	#5	4'-1"	L
ITEM		UNIT	QUANTITY	
Concrete Removal		Cu. Yd.	16.0	
Concrete Superstructure		Cu. Yd.	17.0	
Reinforcement Bars, Epoxy Coated		Pound	2,550	

Bars indicated thus "5x2 - #5 etc." indicates 5 lines with 2 lengths per line.

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PLOT DATE = 8/17/2022	CHECKED - D. Macklin	REVISED -
	DATE - Sept. 2021	REVISED -

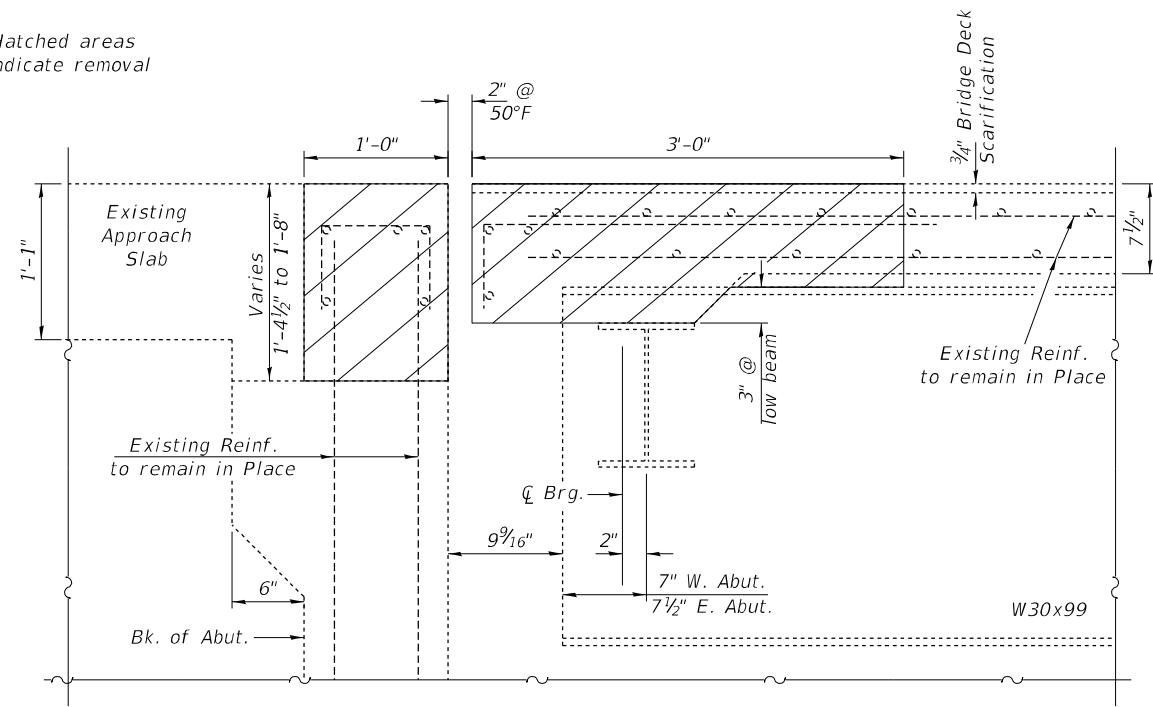
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAILS
S.N. 026-0045**

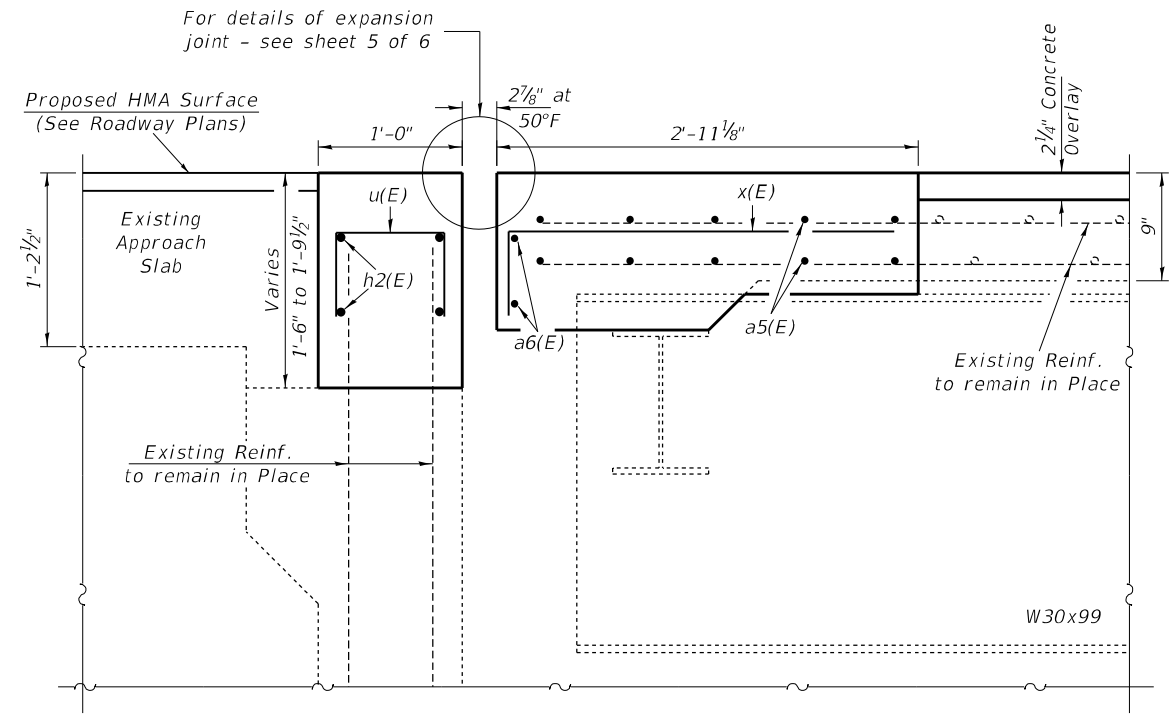
SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	33
CONTRACT NO. 74A92			ILLINOIS FED. AID PROJECT	

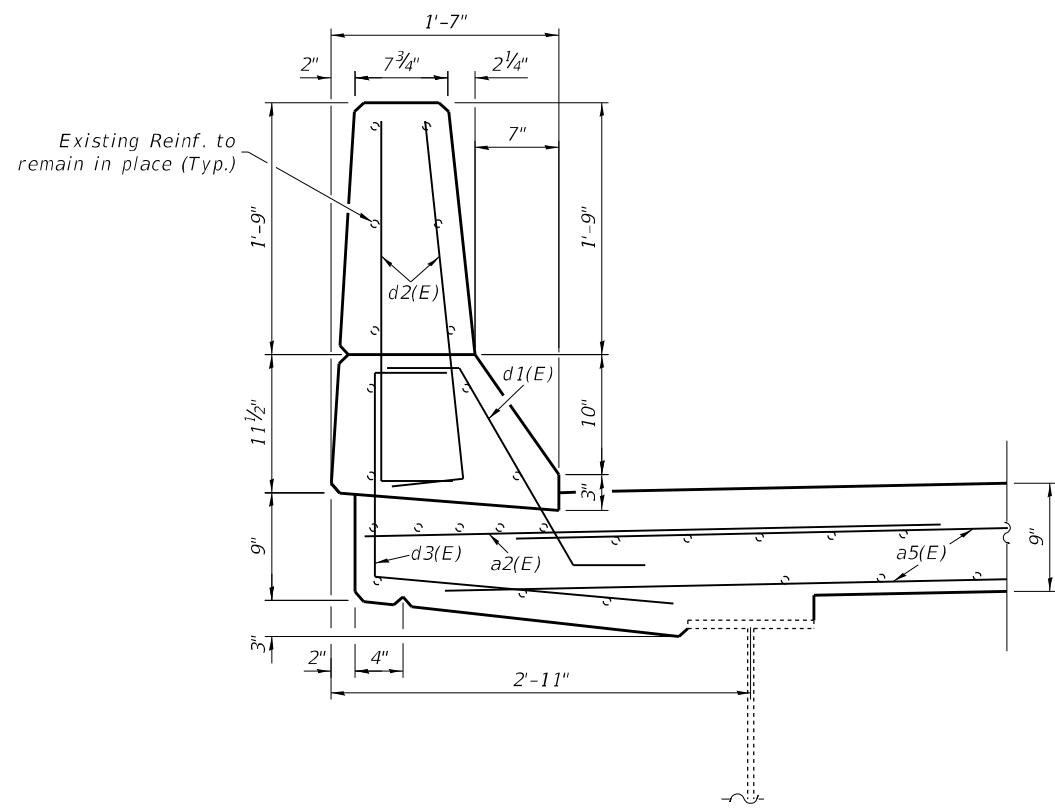
Note: Hatched areas indicate removal



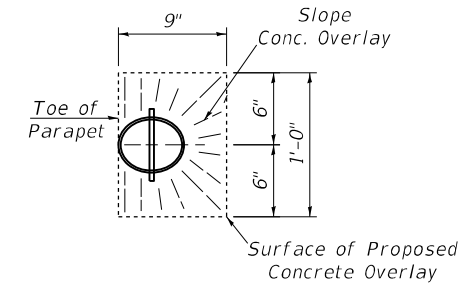
SECTION A-A



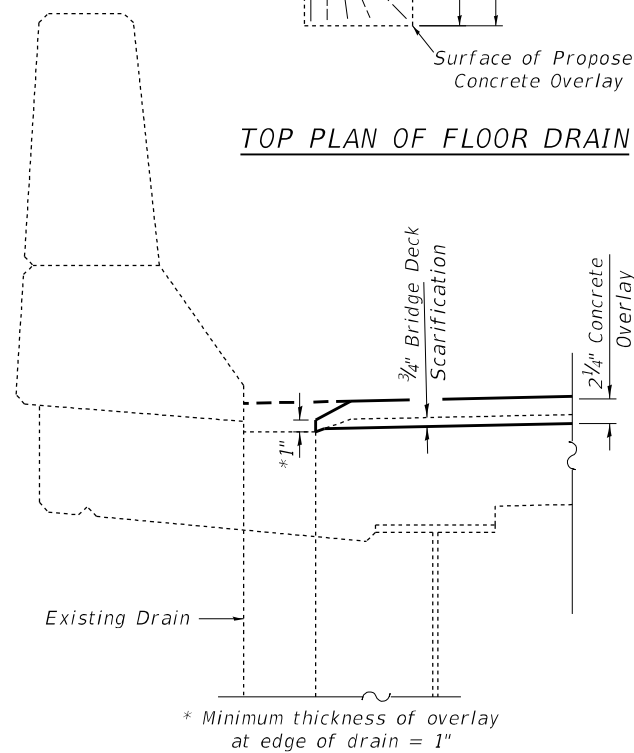
SECTION B-B



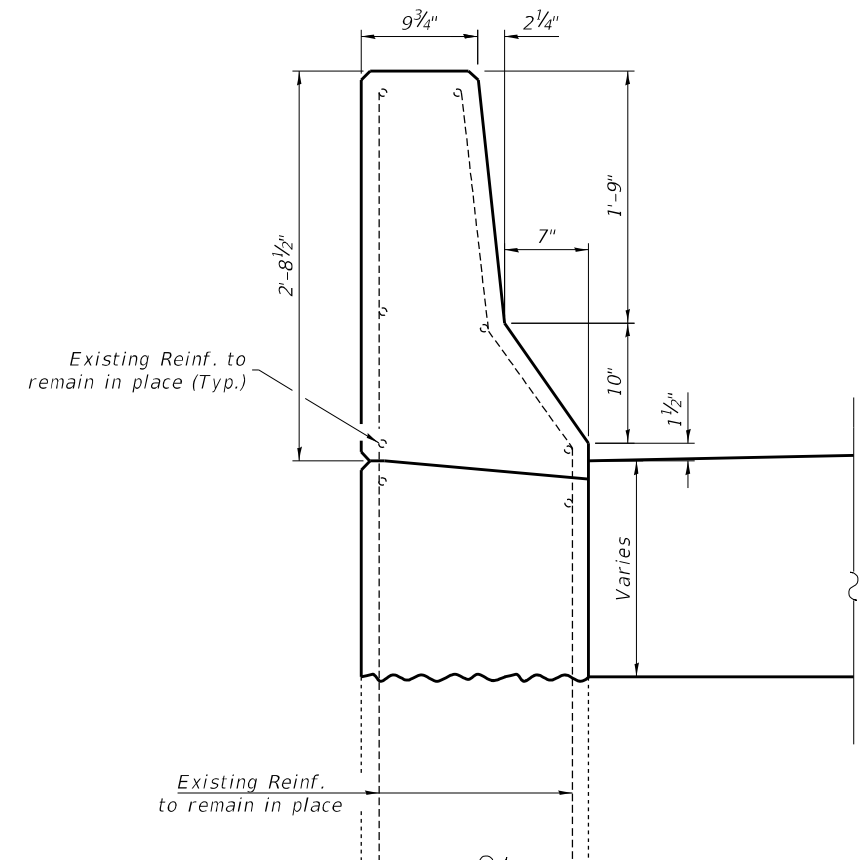
SECTION THRU DECK PARAPET



TOP PLAN OF FLOOR DRAIN



FLOOR DRAIN PRESERVATION



SECTION THRU APPROACH PARAPET

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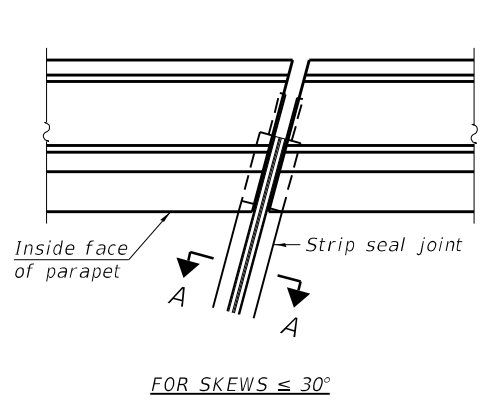
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DRAWN - T. Walk	REVISIONS -	
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PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

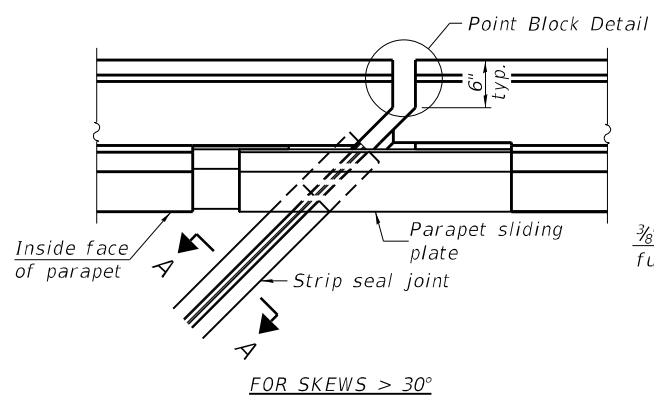
**EXPANSION JOINT REPLACEMENT DETAILS
S.N. 026-0045**

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	34
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

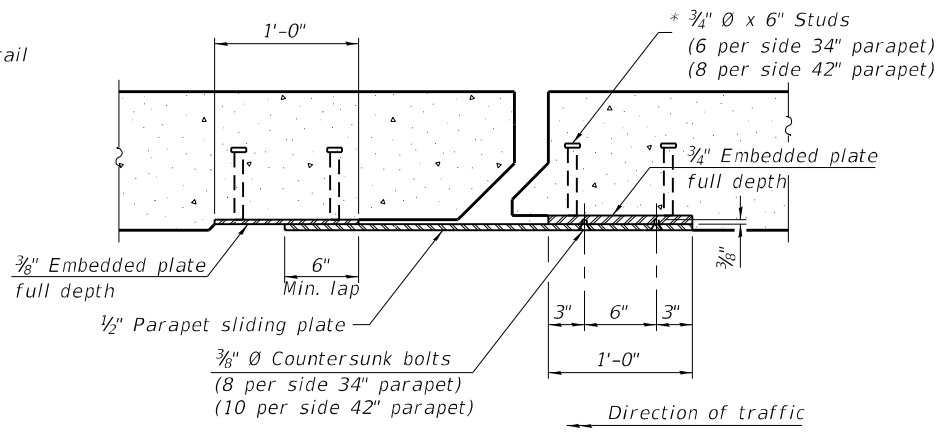


FOR SKEWS $\leq 30^\circ$



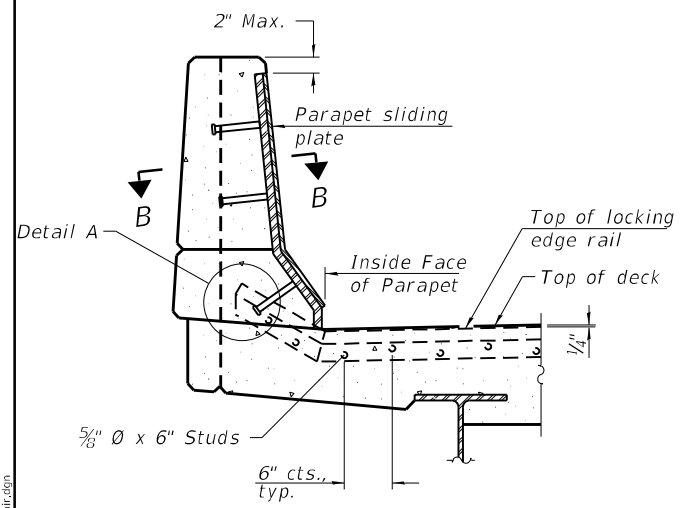
FOR SKEWS $> 30^\circ$

PLAN AT PARAPET



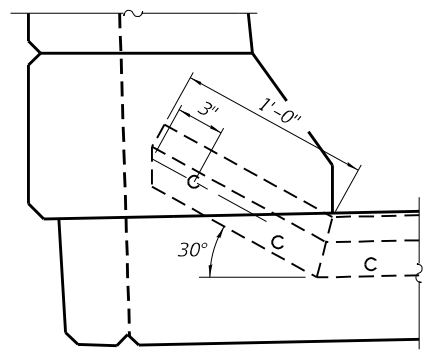
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

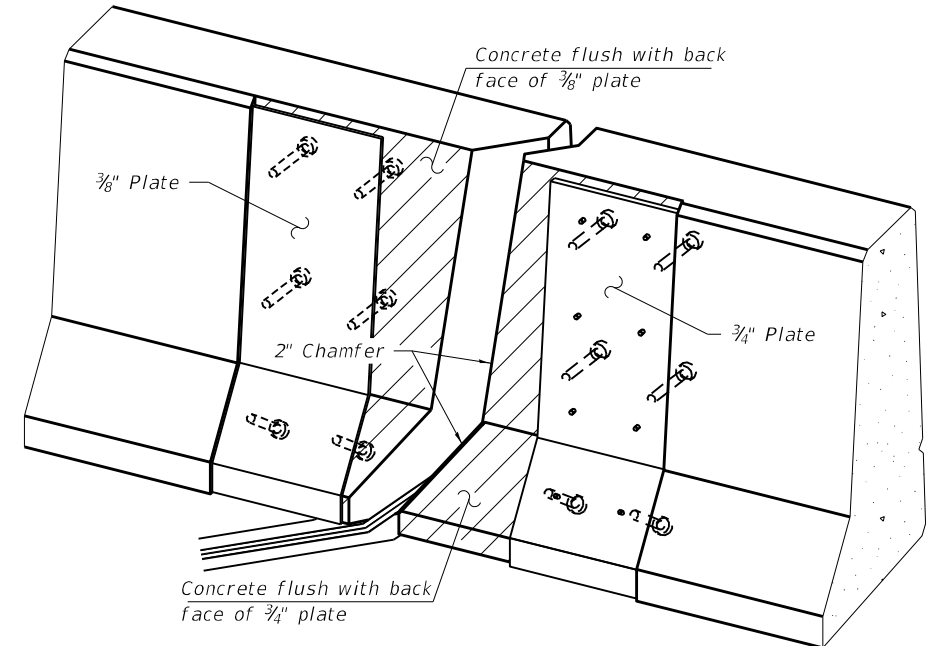


ELEVATION AT PARAPET

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

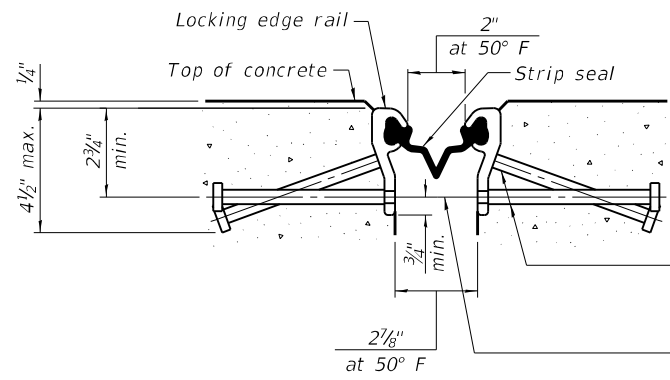


DETAIL A

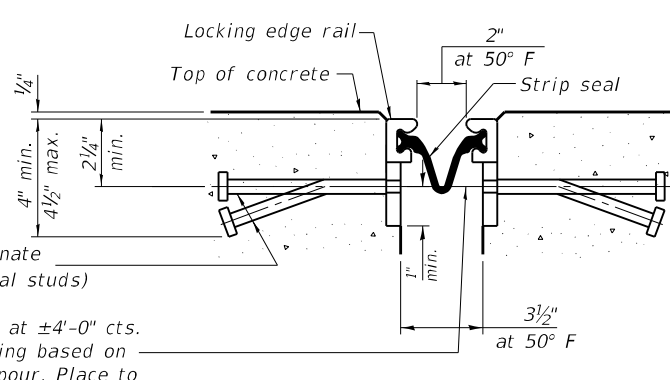


TRIMETRIC VIEW
 (Showing embedded plates only)

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
 34" F-shape barrier shown, 42" F-shape similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



SHOWING ROLLED RAIL JOINT



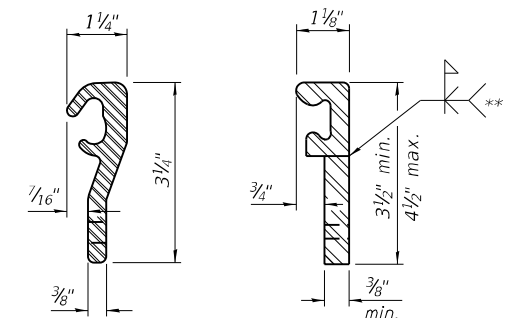
SHOWING WELDED RAIL JOINT

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

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

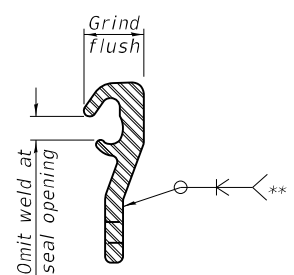
SECTION A-A

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



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	88

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 OFFICE: District 7
 PROJECT: 74A92
 CADD: DataCAD
 PLOT: 8/17/2022
 0044_0045_0046 Bridge Repair.dwg

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PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 8/17/2022	CHECKED - D. Macklin	REVISED -
	DATE - Sept. 2021	REVISED -

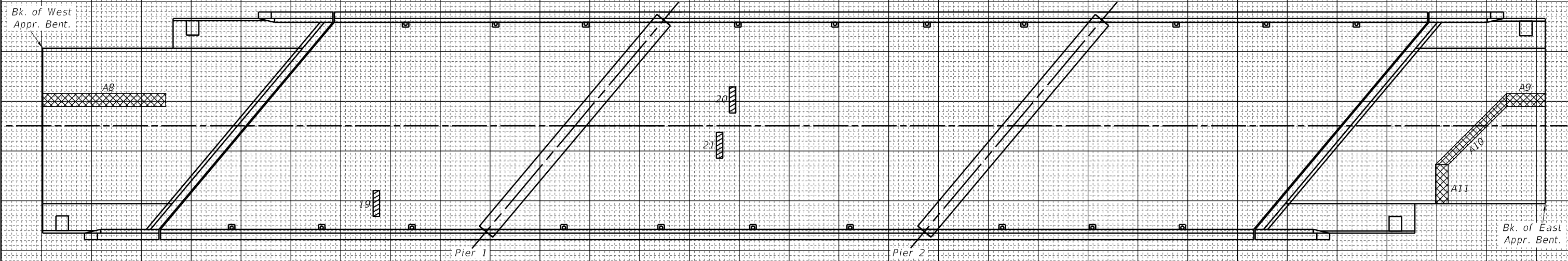
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 S.N. 026-0045

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	35
				CONTRACT NO. 74A92
ILLINOIS FED. AID PROJECT				

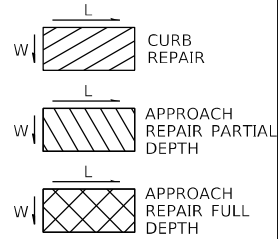
026-0045 Bridge Deck Patching & Approach Repair



PATCH NO.	SIZE		DECK SLAB REPAIR (FD TY I) SQ YD	DECK SLAB REPAIR (FD TY II) SQ YD
	LENGTH	WIDTH		
19	1.0	4.0	0.4	
20	1.0	4.0	0.4	
21	1.0	4.0	0.4	
TOTALS			1.3	0
ROUND TO:			2.0	0

PATCH NO.	SIZE		APPROACH SLAB REPAIR (PARTIAL DEPTH) SQ YD	APPROACH SLAB REPAIR (FULL DEPTH) SQ YD
	LENGTH	WIDTH		
A8	19.0	2.0		2.7
A9	6.0	2.0		1.3
A10	2.0	14.5		3.2
A11	2.0	6.0		1.3
TOTALS			0	10.1
ROUND TO:			0	11.0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 9-2-2021
 SURVEY BY: DPM & TMW
 METHOD OF SURVEY: VISUAL

ESTIMATED PAY QUANTITIES
 DECK SLAB REPAIR (FULL DEPTH, TYPE 1) = 2.0 SQ YD
 DECK SLAB REPAIR (FULL DEPTH, TYPE 2) = 0 SQ YD
 APPROACH SLAB REPAIR (PARTIAL DEPTH) = 0 SQ YD
 APPROACH SLAB REPAIR (FULL DEPTH) = 11.0 SQ YD

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USER NAME = Mona.Steffen	DESIGNED - T. Walk	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - T. Walk	REVISED -
PLOT DATE = 8/17/2022	CHECKED - D. Macklin	REVISED -
	DATE - Sept. 2021	REVISED -

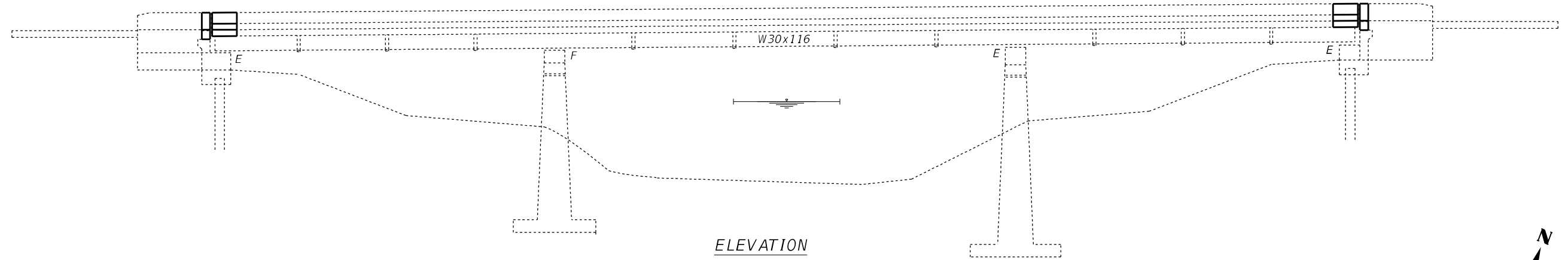
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING & APPROACH REPAIR
 SN. 026-0045

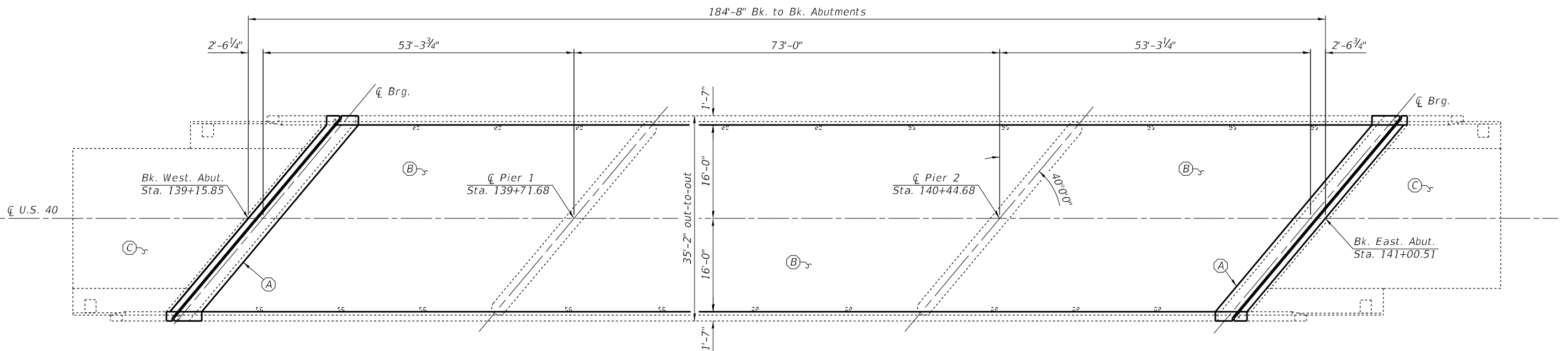
SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	36
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

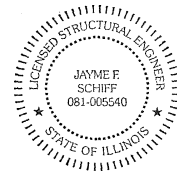
Existing Structure: SN. 026-0046 carries U.S. Rte 40 (FAS 1751) over Hurricane Creek.
 The existing three span steel beam superstructure was constructed in 1991 and substructure was constructed in 1943. The proposed project consists of replacement of existing expansion joints with strip seals, bridge deck scarification, deck & approach patching, & bridge deck overlay. Construction shall be completed using full road closure.



ELEVATION



PLAN



EXPIRES 11-30-2022

Jayme F. Schiff

- (A) - Remove Existing Expansion Joints and Replace with Strip Seal Expansion Joint
- (B) - Bridge Deck Scarification, 3/4", Deck Patching, & Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/4"
- (C) - Approach Slab Patching & See Roadway Plans for Overlay

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

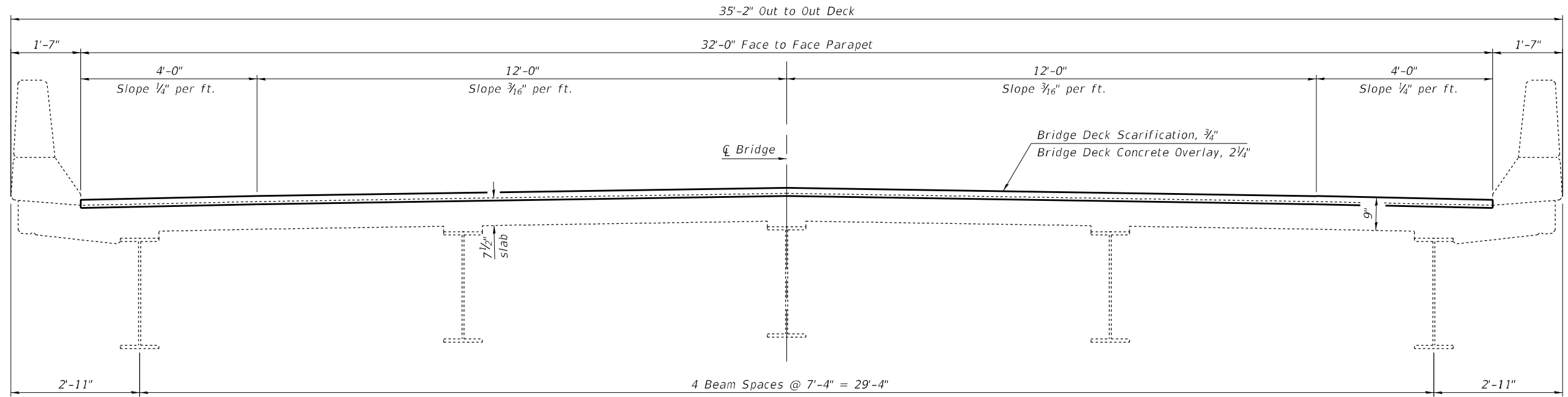
GENERAL PLAN & ELEVATION
 S.N. 026-0046

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PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISED -

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	

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 PLOT DATE: 8/17/2022
 PROJECT: 74A92
 DRAWING: 026-0046
 SHEET: 37 OF 50
 CONTRACT: 74A92



DECK CROSS SECTION

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.

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 operations 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 Standard Specifications when the deck is poured at an ambient temperature other than 50 °F.

Protective Coat to be applied to areas of new concrete only, including bridge deck concrete overlay.

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.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	16.2
Concrete Superstructure	Cu. Yd.	17.2
Reinforcement Bars, Epoxy Coated	Pound	2,550
Bridge Deck Grooving	Sq. Yd.	580
Bridge Deck Scarification, 3/4"	Sq. Yd.	620
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/4"	Sq. Yd.	620
Prefomed Joint Strip Seal	Foot	88
Protective Coat	Sq. Yd.	665
Approach Slab Repair (Full Depth)	Sq. Yd.	6.0

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	DATE - Sept. 2021	REVISED -

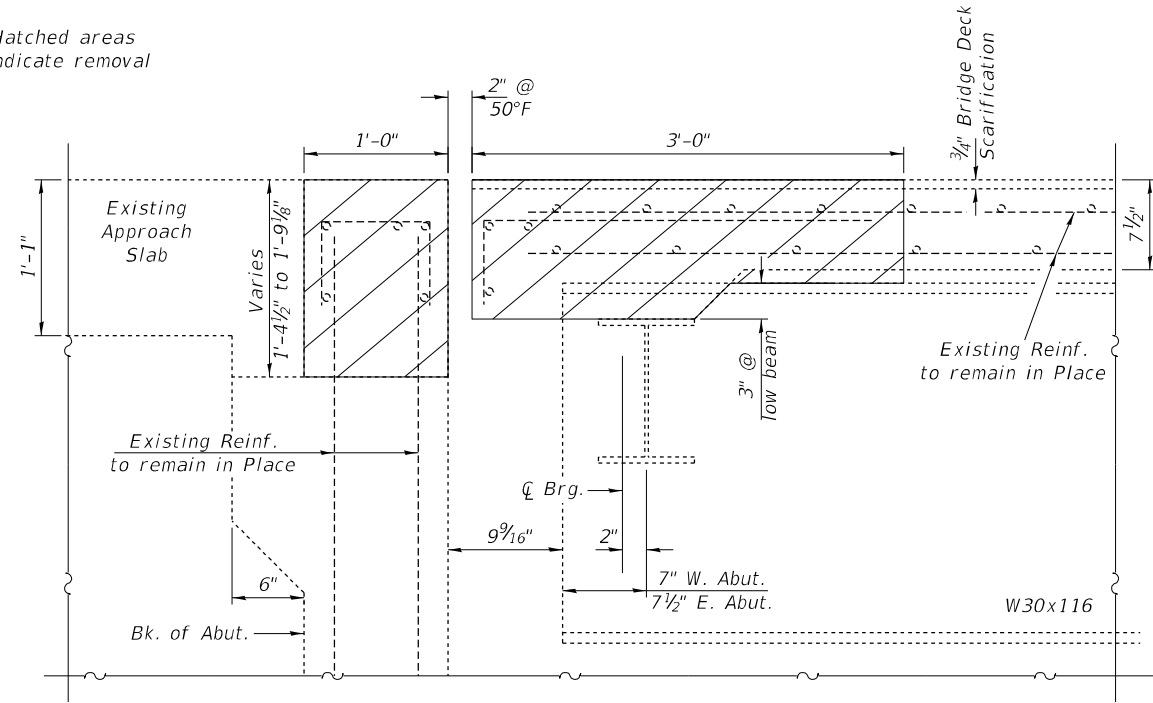
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK CROSS SECTION, GENERAL NOTES &
BILL OF MATERIALS S.N. 026-0046**

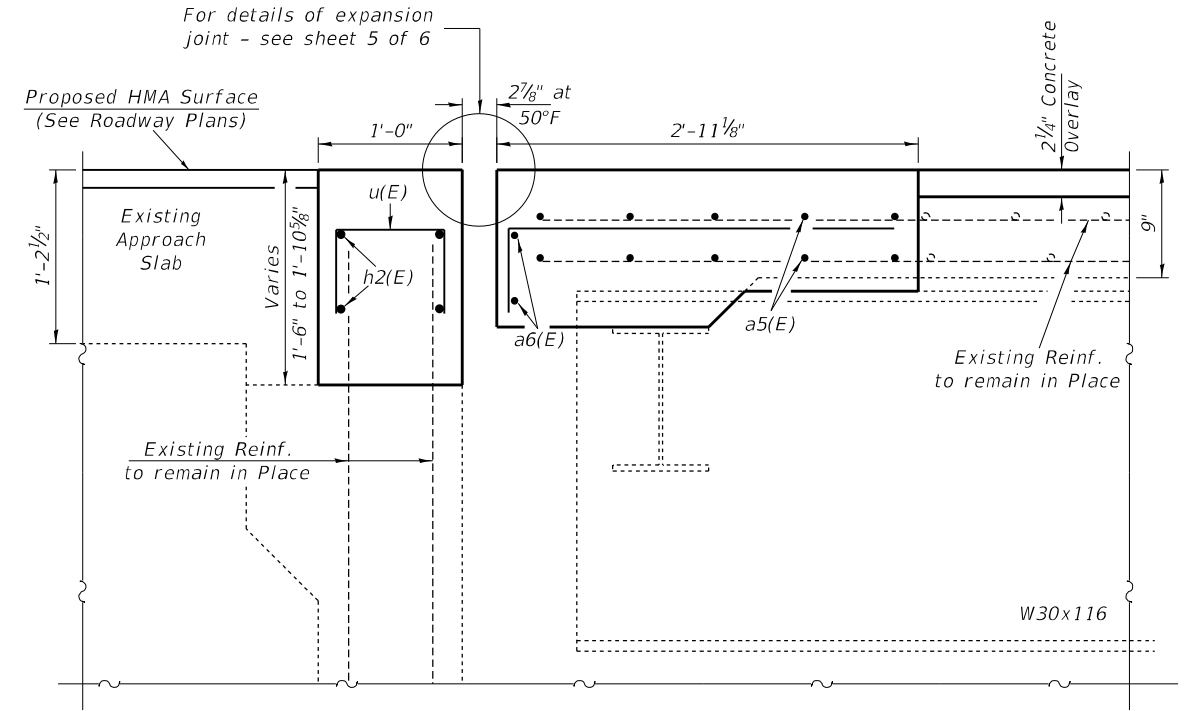
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	38
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	

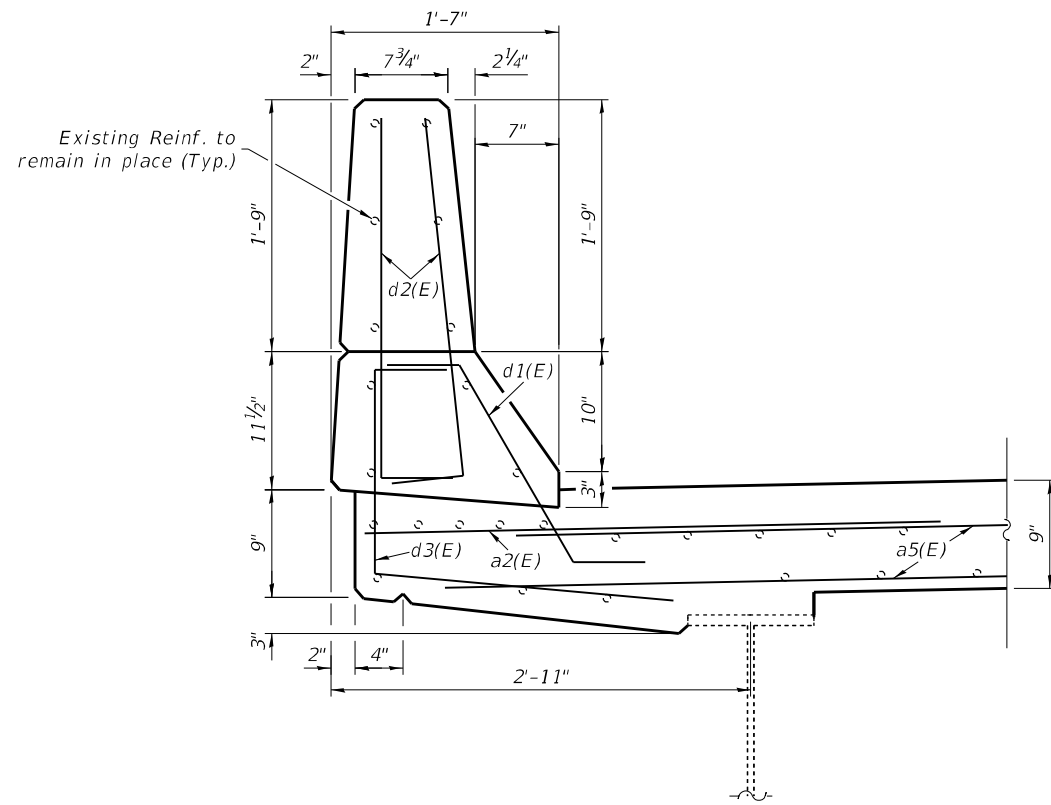
Note: Hatched areas indicate removal



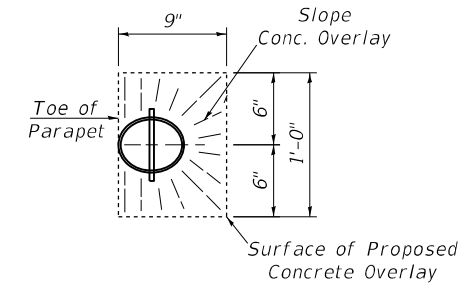
SECTION A-A



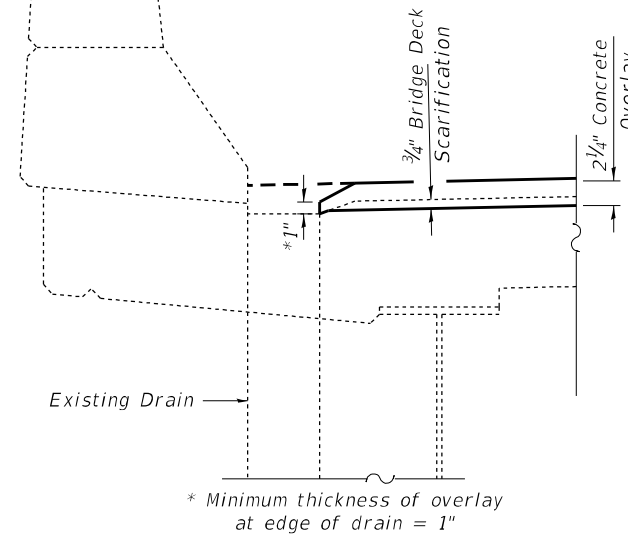
SECTION B-B



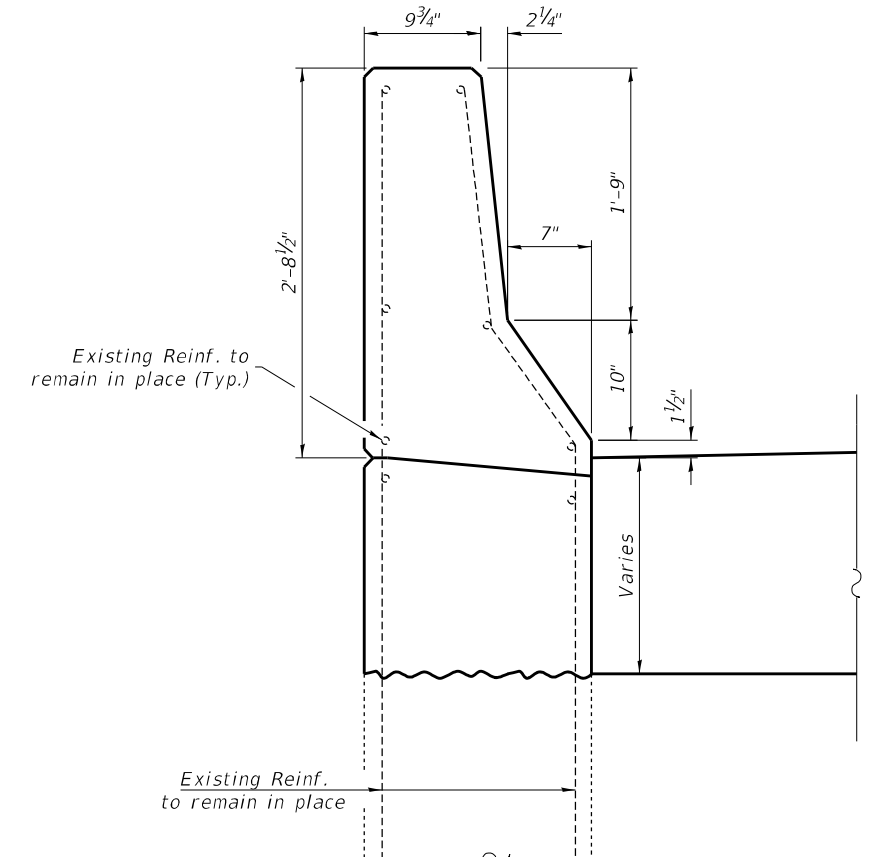
SECTION THRU DECK PARAPET



TOP PLAN OF FLOOR DRAIN



FLOOR DRAIN PRESERVATION



SECTION THRU APPROACH PARAPET

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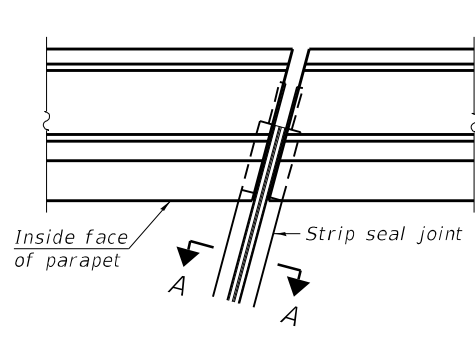
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PLOT DATE = 8/17/2022	DATE - Sept. 2021	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

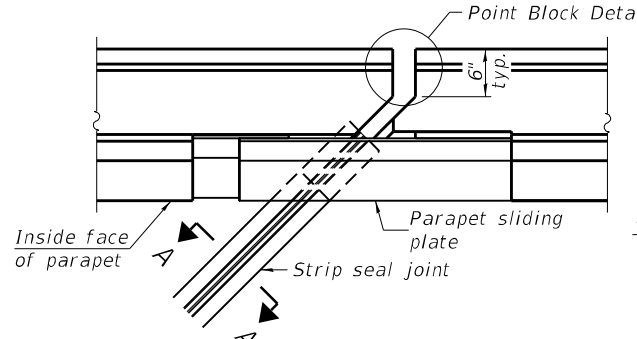
EXPANSION JOINT REPLACEMENT DETAILS
S.N. 026-0046

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F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

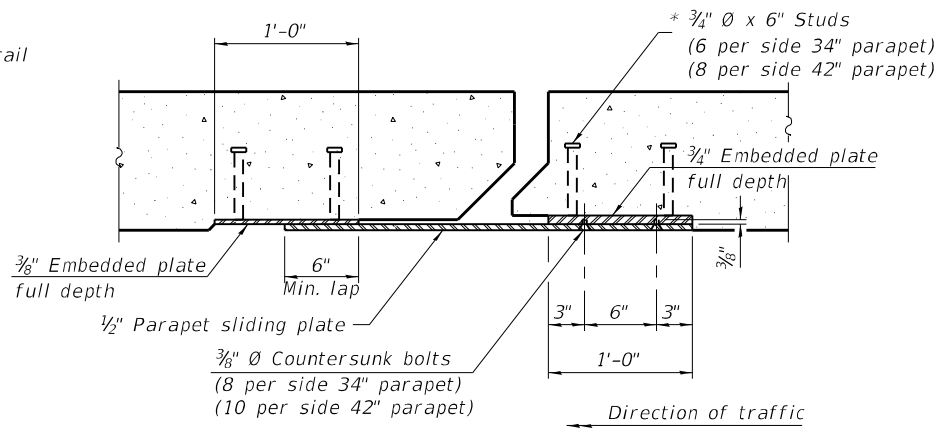


FOR SKEWS $\leq 30^\circ$



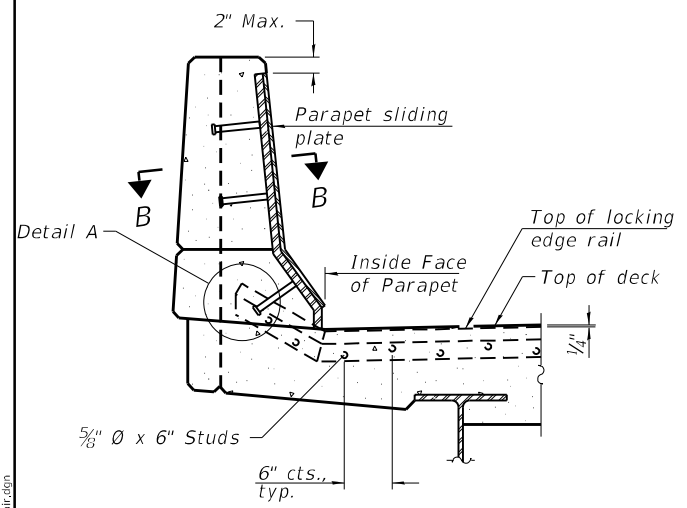
FOR SKEWS $> 30^\circ$

PLAN AT PARAPET



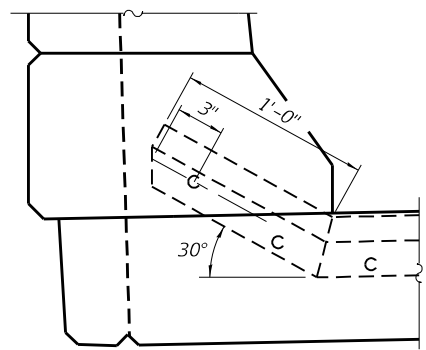
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

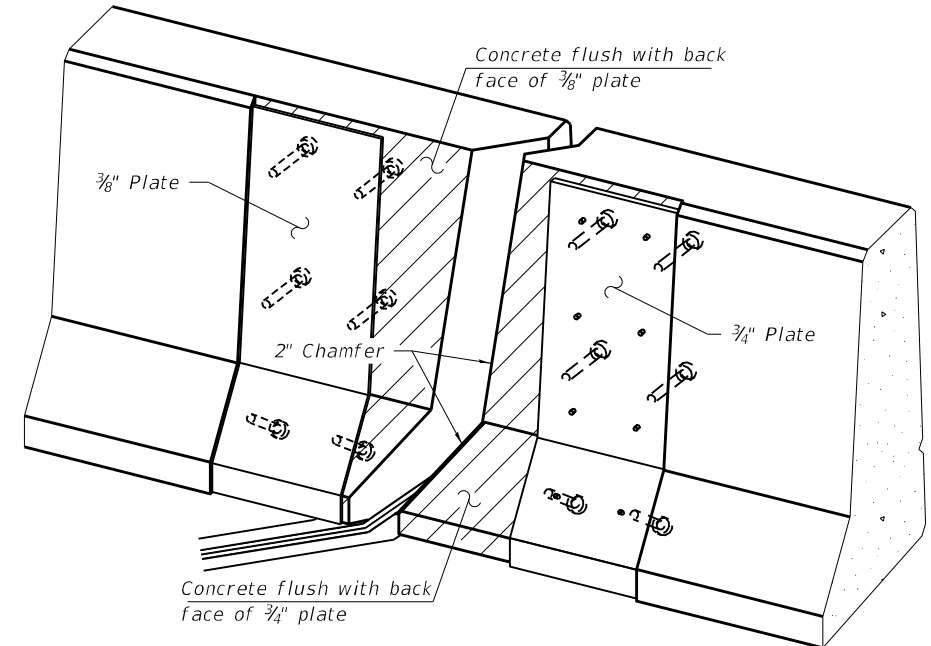


ELEVATION AT PARAPET

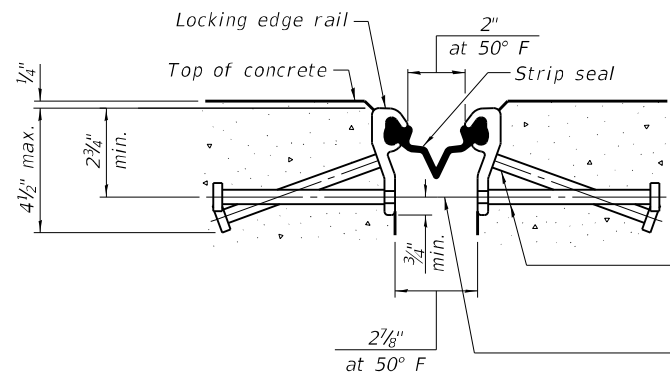
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
 (Showing embedded plates only)



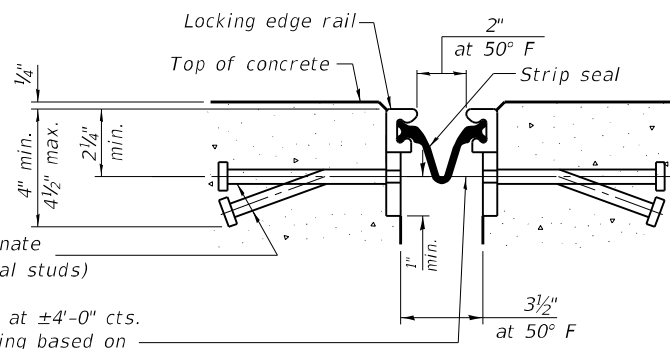
SHOWING ROLLED RAIL JOINT

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

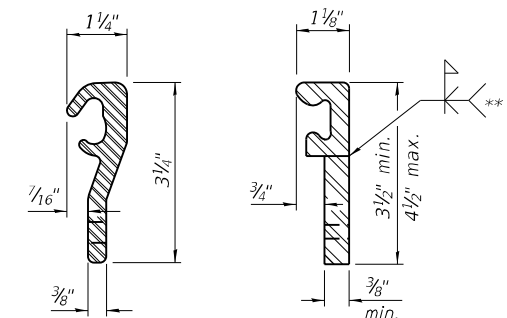
3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

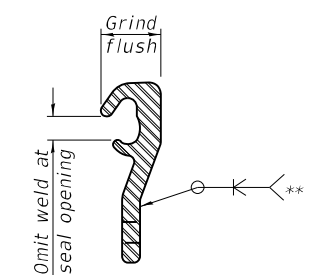


SHOWING WELDED RAIL JOINT



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	88

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 OFFICE: District 7
 DATE: 8/17/2022

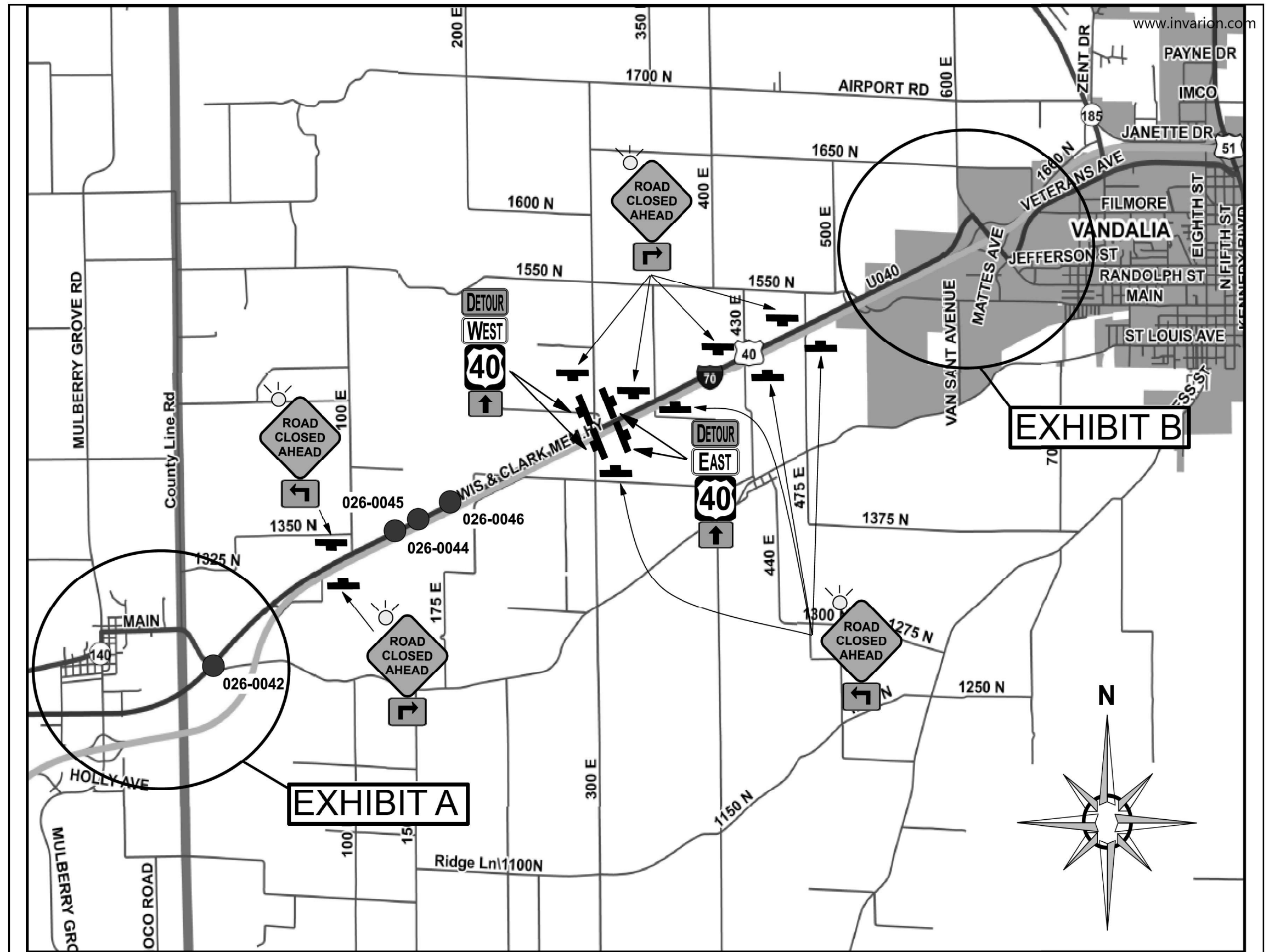
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	DATE - Sept. 2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL
 S.N. 026-0046**

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	41
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74A92	



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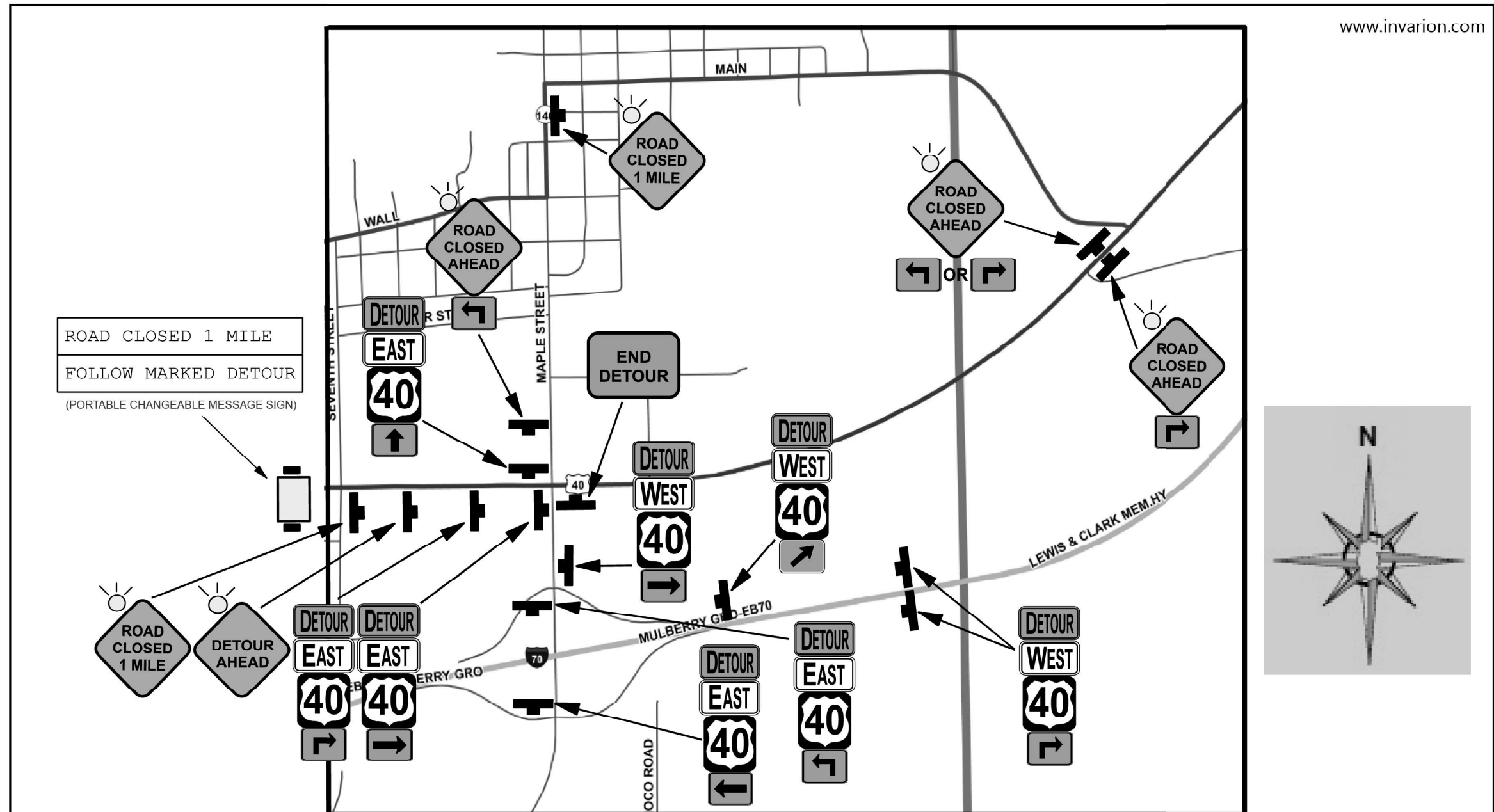
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

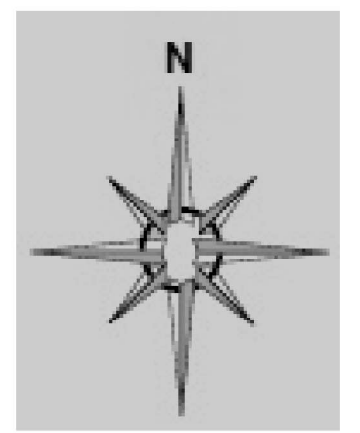
DETOUR SIGNING
US 40

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	43
			CONTRACT NO. 74A92	
ILLINOIS FED. AID PROJECT				



ROAD CLOSED 1 MILE
 FOLLOW MARKED DETOUR
 (PORTABLE CHANGEABLE MESSAGE SIGN)



**Closure of US 40 shall be
 in accordance with Standards
 BLR 21 & 701901**

EXHIBIT A

LEGEND

OR	W20-3-48	OR	M6-1(O)-3018
	W20-2-48		M5-1R(O)-3018
	M4-8(O)-3015		M5-1L(O)-3018
	M3-2-3015		M6-3(O)-3018
	M3-4-3015		M4-8a-3024
	M1-4-36		Project Locations
	M6-2R(O)-3018		Flashing Light

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
 US 40**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	44
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

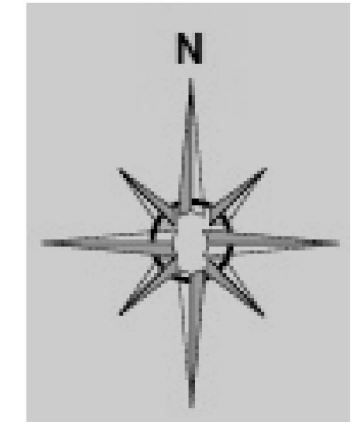
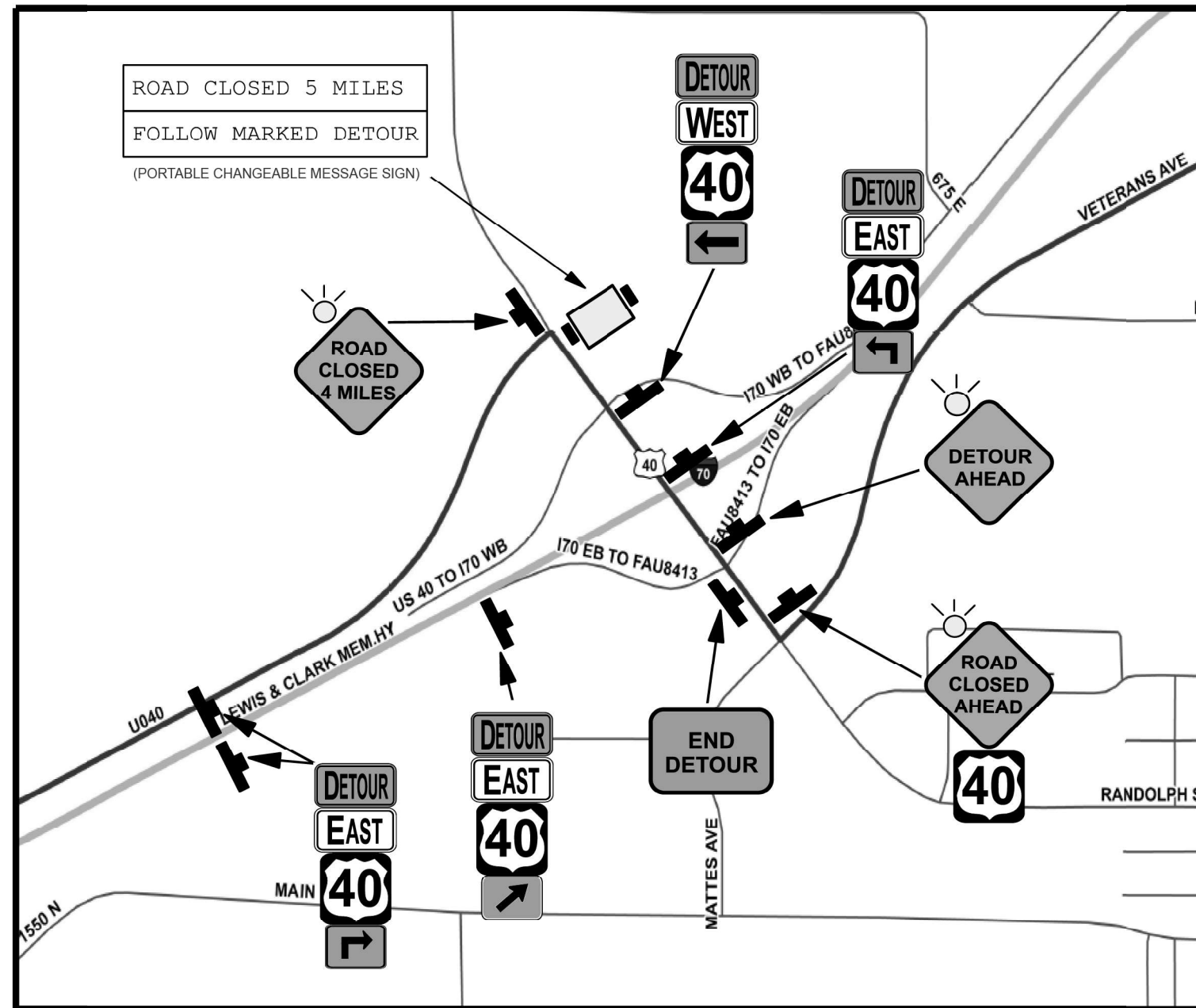


EXHIBIT B

**Closure of US 40 shall be
in accordance with Standards
BLR 21 & 701901**

LEGEND

	OR		W20-3-48		OR		M6-1(O)-3018
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			M4-8(O)-3015				M5-1L(O)-3018
			M3-2-3015				M6-3(O)-3018
			M3-4-3015				M4-8a-3024
			M1-4-36				Project Locations
			M6-2R(O)-3018				Flashing Light

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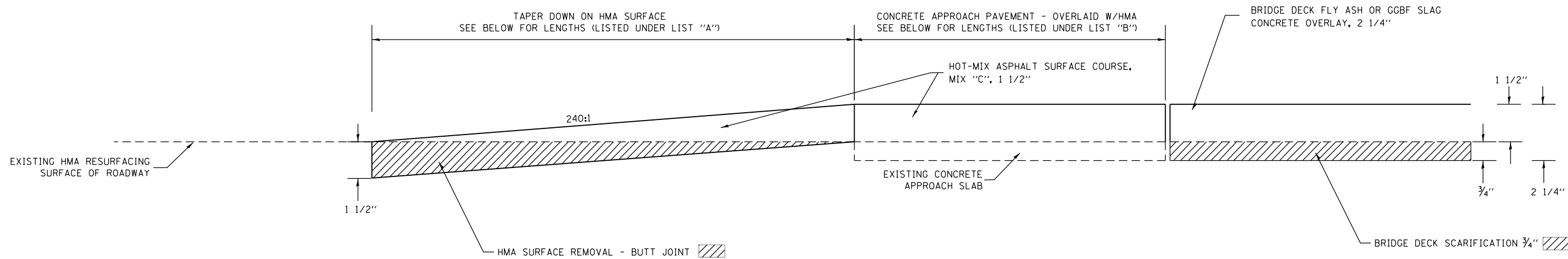
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
US 40**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	45
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				



TEMPORARY RAMP

- STA 14+35 TO STA 14+40 (WEST SIDE 026-0042 BEGINNING HMA)
- STA 18+12 TO STA 18+17 (EAST SIDE 026-0042 END HMA)
- STA 118+68 TO STA 118+73 (WEST SIDE 026-0044 BEGINNING HMA)
- STA 123+25 TO STA 123+30 (EAST SIDE 026-0044 END HMA)
- STA 125+77 TO STA 125+82 (WEST SIDE 026-0045 BEGINNING HMA)
- STA 129+45 TO STA. 129+50 (EAST SIDE 026-0045 END HMA)
- STA 138+15 TO STA 138+20 (WEST SIDE 026-0046 BEGINNING HMA)
- STA 141+95 TO STA 142+00 (EAST SIDE 026-0046 END HMA)

LIST "A"

- 026-0042:
STA 14+35.00 TO STA 14+86.40 (WEST) - 51.40 FT
STA 17+64.40 TO STA 18+17.00 (EAST) - 52.6 FT
- 026-0044:
STA 118+68.00 TO STA 120+15.49 (WEST) - 147.49 FT
STA 121+81.16 TO STA 123+30.00 (EAST) - 148.84 FT
- 026-0045:
STA 125+77.00 TO STA 126+46.77 (WEST) - 69.77 FT
STA 128+80.60 TO STA. 129+50.00 (EAST) - 69.40 FT
- 026-0046:
STA 138+15.00 TO STA 138+84.85 (WEST) - 69.85 FT
STA 141+31.51 TO STA 142+00.00 (EAST) - 68.49 FT

LIST "B"

- 026-0042:
STA 14+86.40 TO STA 15+20.40 (WEST) - 34 FT
STA 17+31.40 TO STA 17+64.40 (EAST) - 33 FT
- 026-0044:
STA 120+15.49 TO STA 120+43.49 (WEST) - 28 FT
STA 121+53.16 TO STA 121+81.16 (EAST) - 28 FT
- 026-0045:
STA 126+46.77 TO STA 126+77.77 (WEST) - 31 FT
STA 128+49.60 TO STA. 128+80.60 (EAST) - 31 FT
- 026-0046:
STA 138+84.85 TO STA 139+15.85 (WEST) - 31 FT
STA 141+00.51 TO STA 141+31.51 (EAST) - 31 FT

NOT TO SCALE

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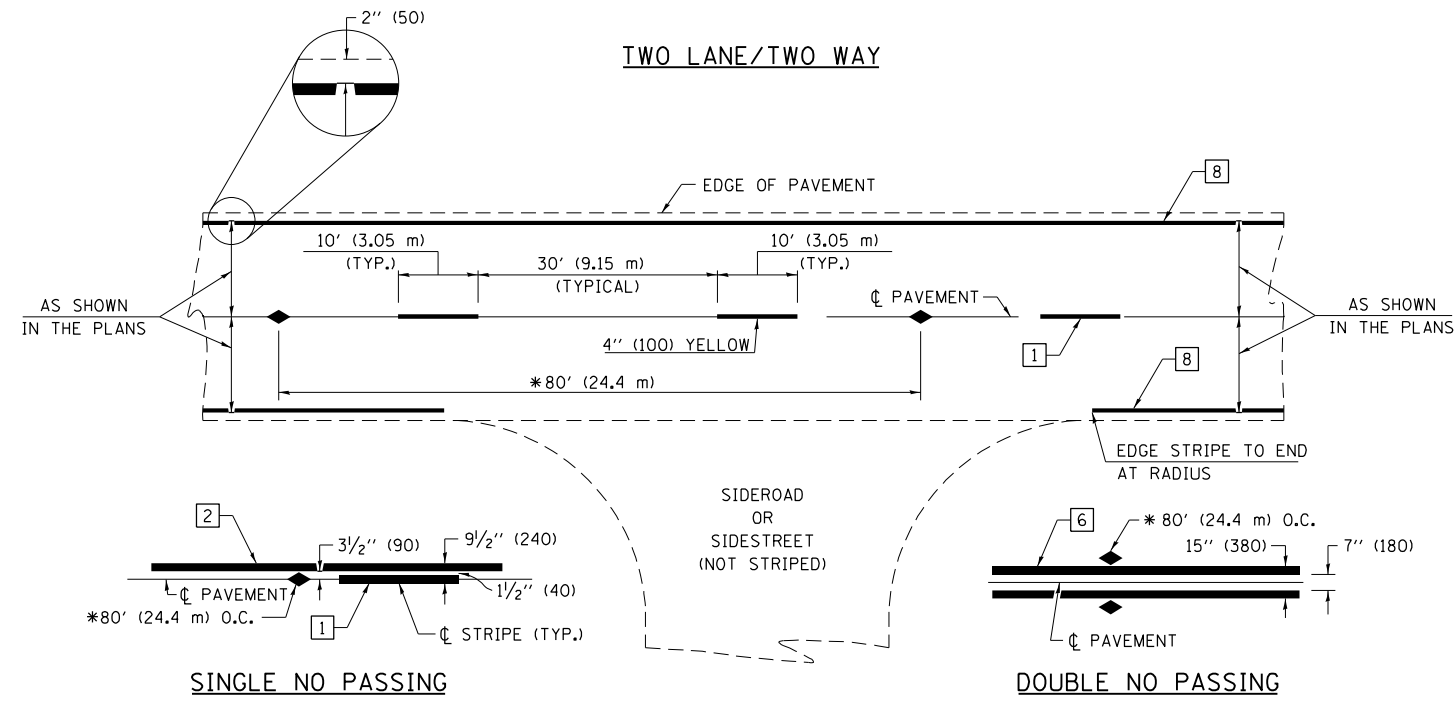
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PLOT DATE = 8/17/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVING DETAILS

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

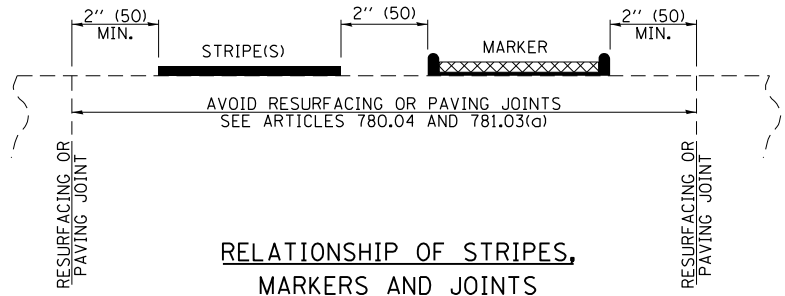
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	46
			CONTRACT NO. 74A92	
ILLINOIS FED. AID PROJECT				



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

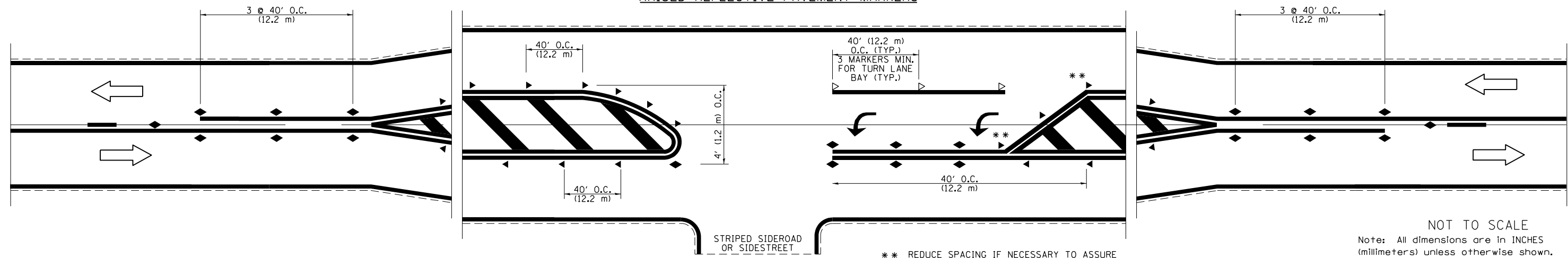


RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

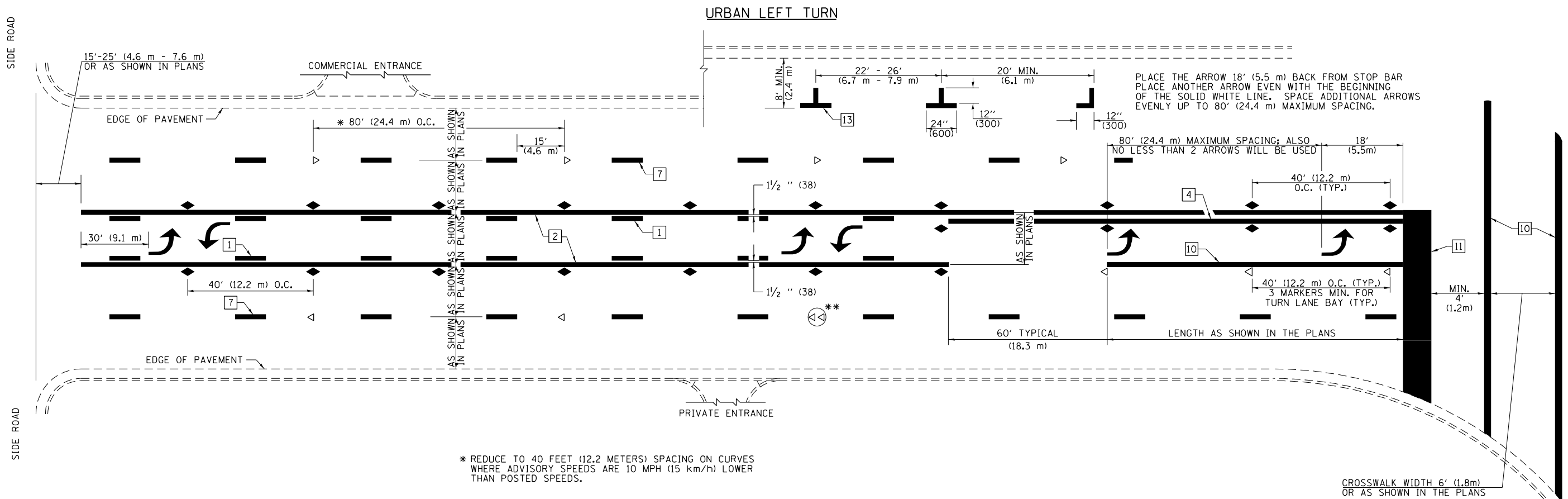
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PLOT SCALE = 100.0000' / in.		DATE -	REVISED -
PLOT DATE = 8/17/2022			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	47
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				



PLACE THE ARROW 18' (5.5 m) BACK FROM STOP BAR
 PLACE ANOTHER ARROW EVEN WITH THE BEGINNING
 OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS
 EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING.

* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES
 WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER
 THAN POSTED SPEEDS.

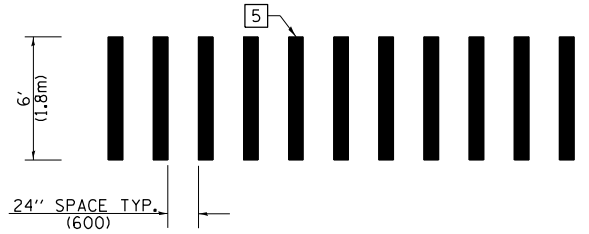
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED
 AND SPACED AS SHOWN IN HIGHWAY STANDARD
 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED
 HIGHWAYS.

PAVEMENT MARKING LEGEND

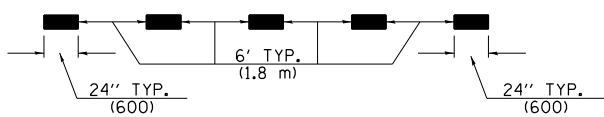
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

GENERAL NOTES

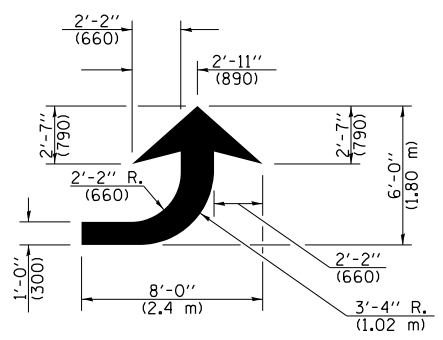
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE SECTION 780 FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.
6. ALL WHITE SKIP-DASH LINES SHALL BE 6" IN WIDTH.



**CROSSWALK DETAIL
 (DECATUR CITY LIMITS ONLY)**

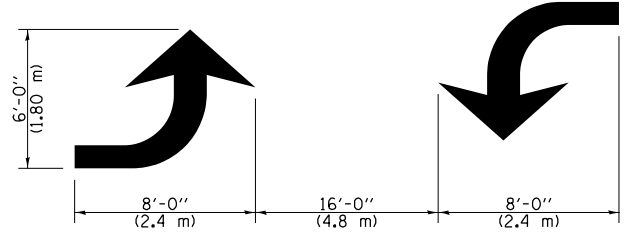


LANE LINE EXTENSIONS



LEFT ARROW

REVERSE FOR RIGHT ARROW
 AREA = 15.6 SQ. FT. (1.47 m²)
 (WHITE)



**TYPICAL DOUBLE
 TURN ARROWS (WHITE)**

NOT TO SCALE

Note: All dimensions are in INCHES
 (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = Mono.Steffen	DESIGNED -	REVISED - NAS 06/22
pw:\idot-pw\bentley.com\PWIDOT\Documents\IDOT Offices\District 7\Projects\74A92\CADD\Drawings\74A92-shd-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

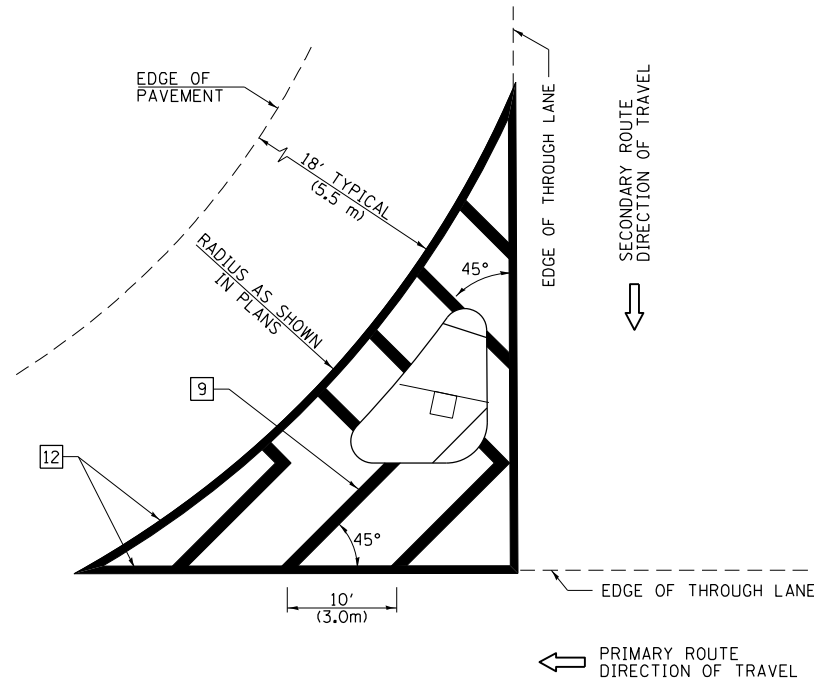
**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	48
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

ISLANDS

OPTION 1

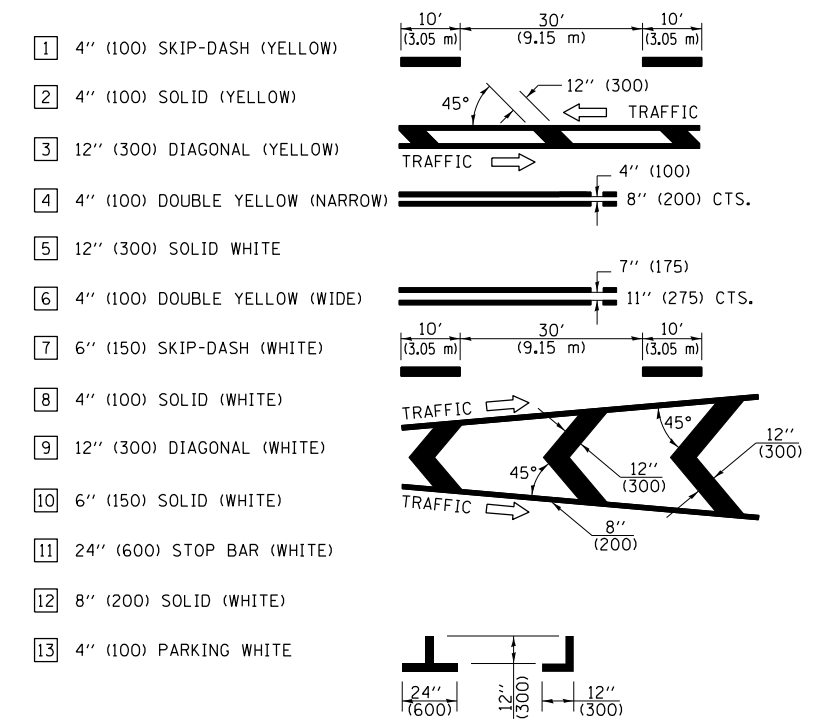


GENERAL NOTES

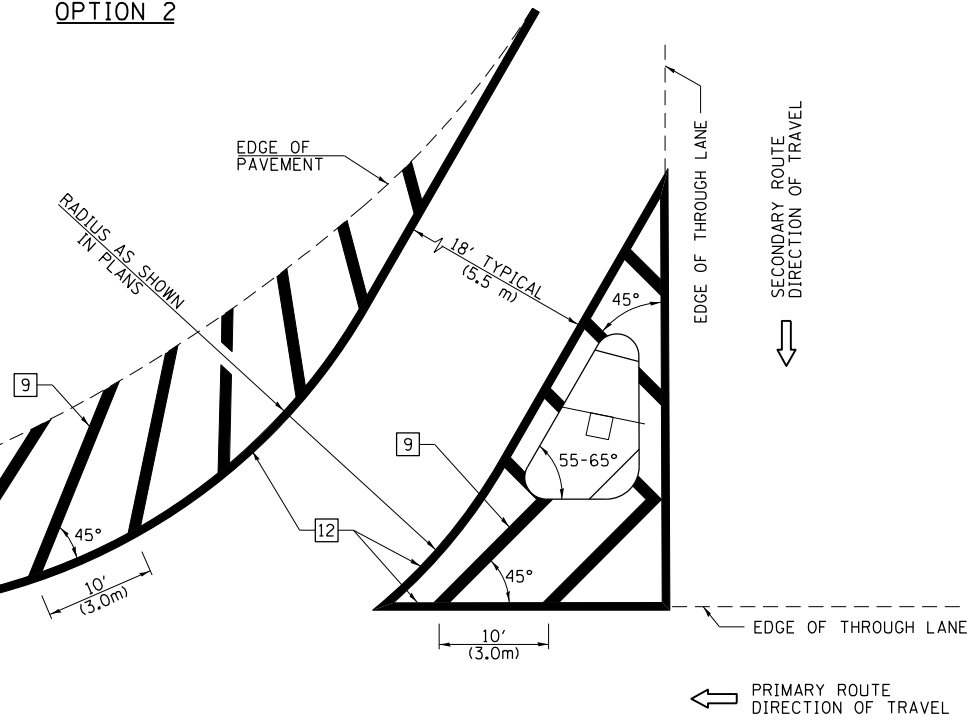
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2].
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)
6. THE USE OF ISLAND STRIPING OPTION 1 OR OPTION 2 SHALL BE AS SHOWN ON THE PLANS.

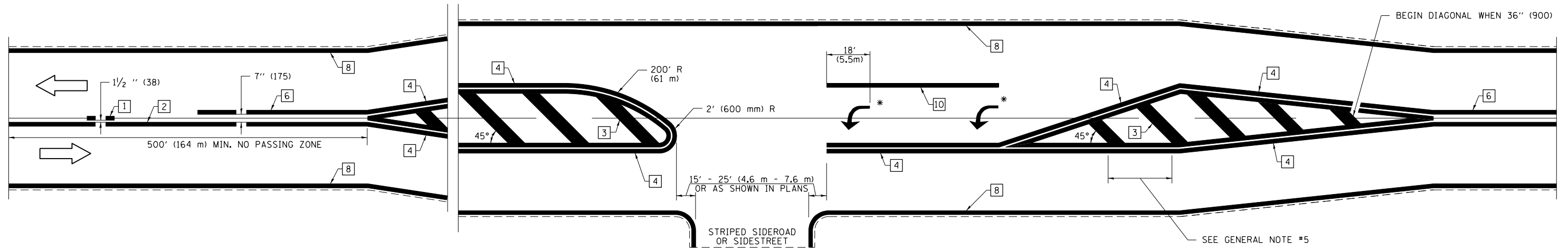
PAVEMENT MARKING LEGEND



OPTION 2



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM END OF THE SOLID WHITE LINE. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = Mono.Steffen	DESIGNED -	REVISED - NAS 06/22
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PLOT SCALE = 100.0000' / in.		DATE -	REVISED -
PLOT DATE = 8/17/2022			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

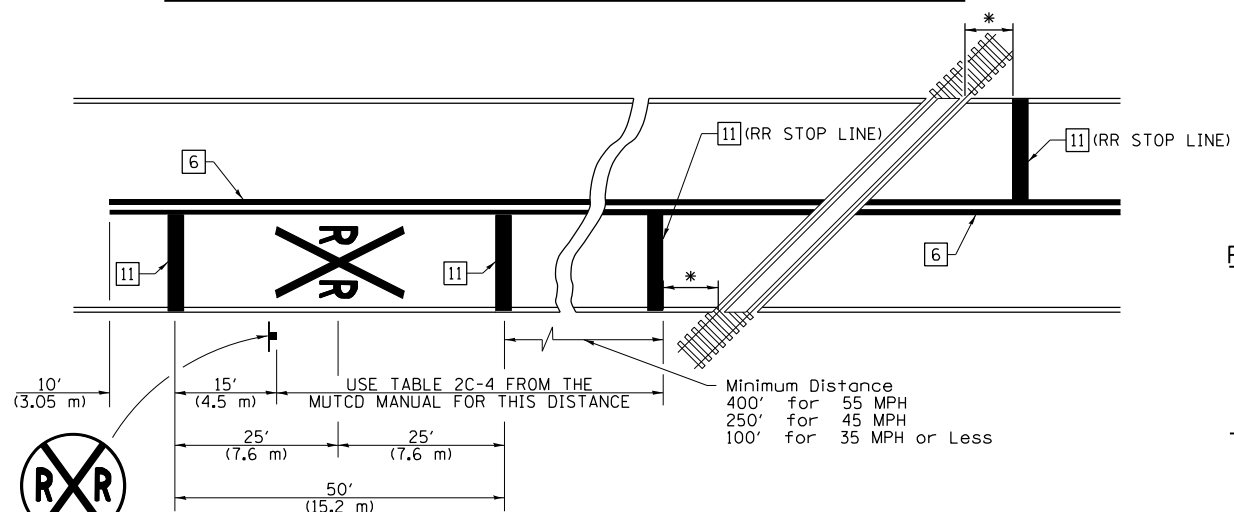
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	49
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

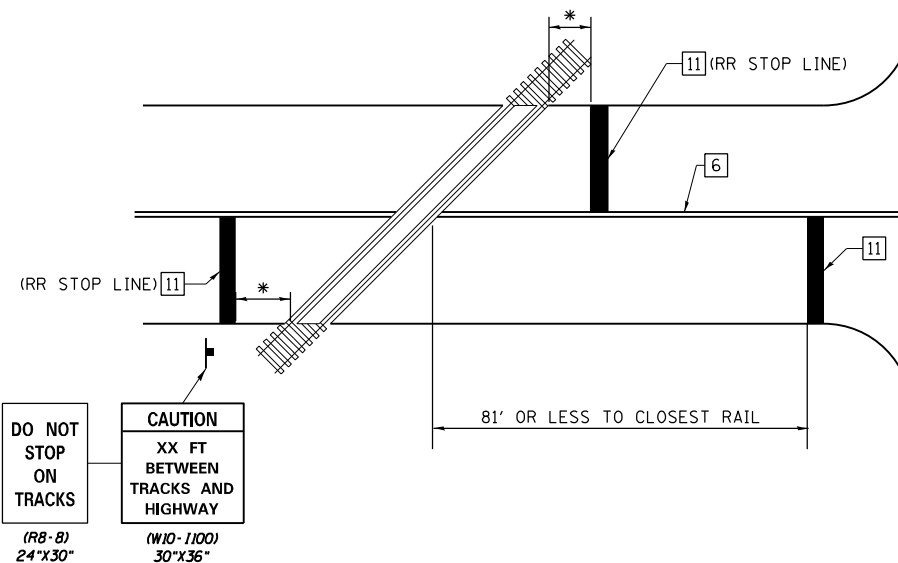
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 12" (300) SOLID WHITE
 - 6 4" (100) DOUBLE YELLOW (WIDE)
 - 7 6" (150) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) PARKING WHITE
-

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



RAILROAD CROSSING WITH NON-SIGNALIZED INTERSECTION

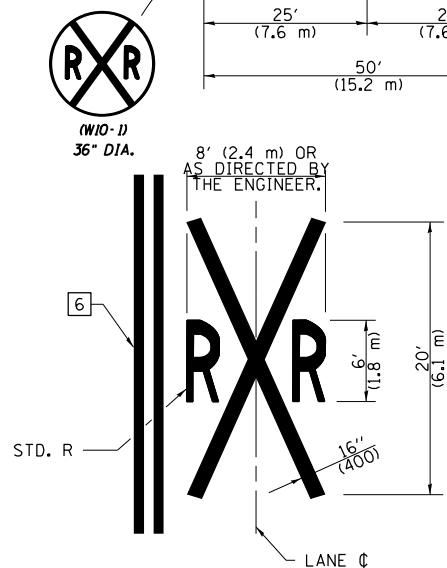


NOTES

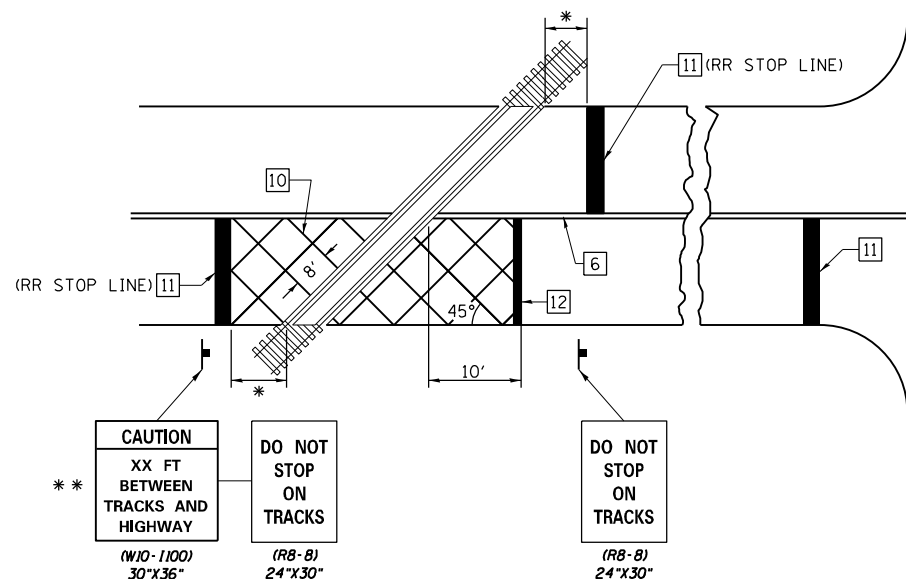
THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RRR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

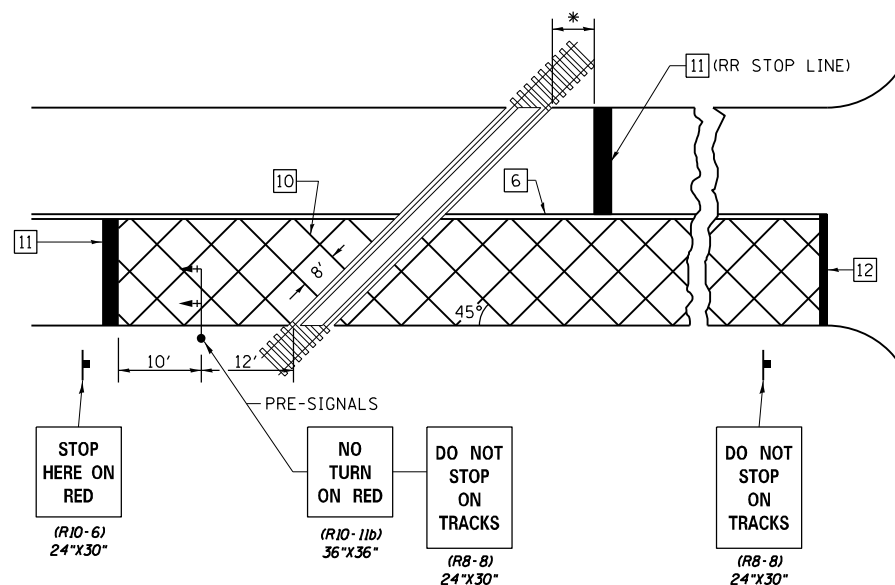
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



RAILROAD CROSSING WITH INTERCONNECT ONLY

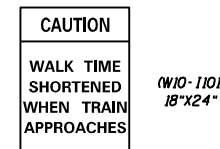


RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE PRE-SIGNALS ARE USED.
- WHEN PEDESTRIAN SIGNALS ARE PRESENT WITH INTERCONNECTED SIGNALS, WARNING SIGN W10-1101 (18"X24") SHALL BE PLACED NEAR EACH PEDESTRIAN SIGNAL HEAD. COUNTDOWN PEDESTRIAN SIGNAL HEADS SHALL NOT BE UTILIZED ALONG WITH INTERCONNECTED SIGNALS.
- PLEASE REFER TO THE IDOT BUREAU OF OPERATION MEMO OPS T-06 DATED DECEMBER 1, 2020 FOR ADDITIONAL INFORMATION.



* 15' FROM NEAR RAIL OR 8' FROM AND PARALLEL TO GATE IF PRESENT

** WARNING SIGN W10-1100 SHALL BE USED AS AN INTERIM MEASURE AT INTERCONNECTED SIGNAL LOCATIONS WHERE PRE-SIGNALS ARE TO BE INSTALLED IN THE FUTURE. THIS SIGN SHALL BE REMOVED WHEN THE PRE-SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS ARE EXTENDED TO THE INTERSECTION.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

FILE NAME =	USER NAME = Mono.Steffen	DESIGNED -	REVISED - NAS 06/22
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PLOT SCALE = 100.0000' / in.		DATE -	REVISED -
PLOT DATE = 8/17/2022			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1751	D7 BRIDGE REPAIRS 2023-6	FAYETTE	50	50
CONTRACT NO. 74A92				
ILLINOIS FED. AID PROJECT				