

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	1
		ILLINOIS	CONTRACT NO. 78B37	

D-99-047-25

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NOS. 4-6

TRAFFIC DATA

ROADWAY CLASSIFICATION: MINOR ARTERIAL

CURRENT ADT (2023) = 250

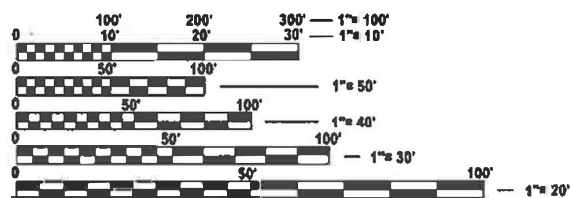
DESIGN YEAR ADT (2046) = 310

SU = 0%

MU = 0%

TOWNSHIP: PHILLIPS TOWNSHIP

POSTED SPEED: 55 MPH



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

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

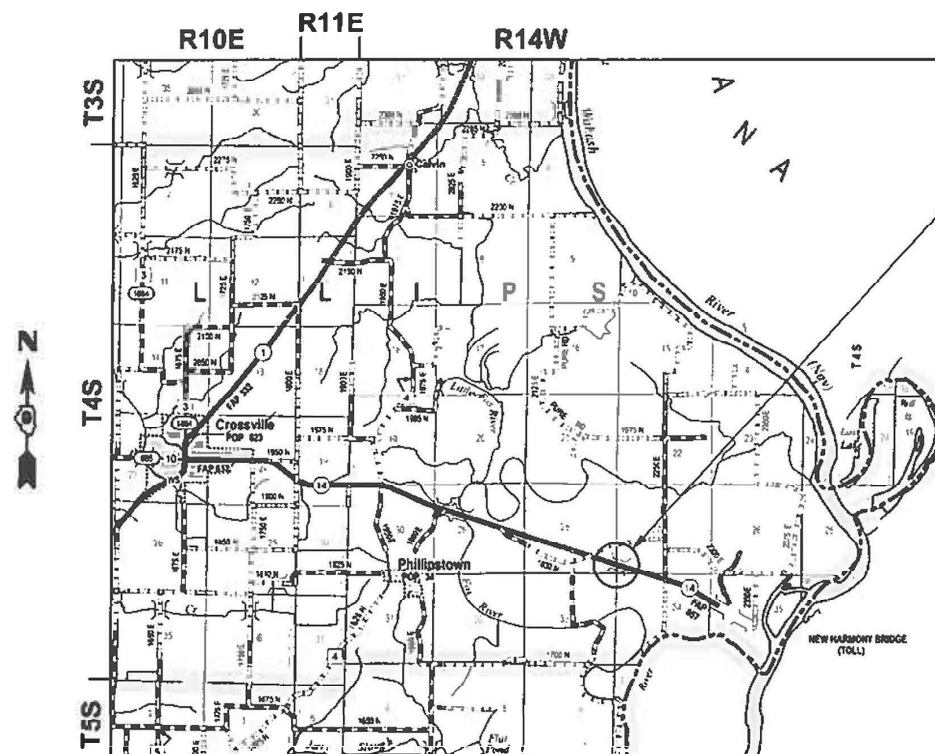
PROJECT ENGINEER: EHREN KIRBY, P.E.
PROJECT MANAGER: KUHN & TRELLO CONSULTING ENGINEERS, LLC

CONTRACT NO. 78B37

PROPOSED HIGHWAY PLANS

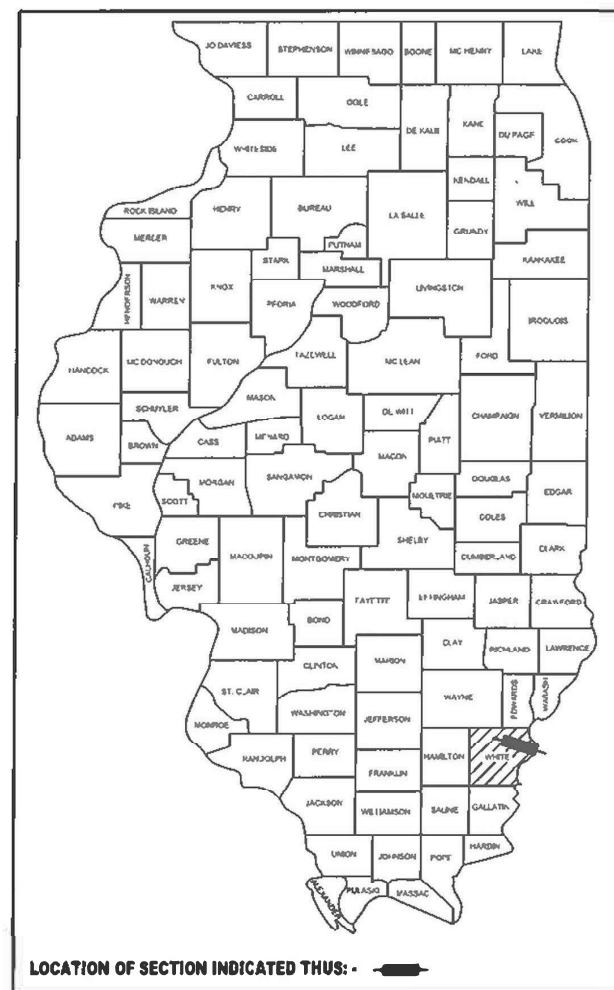
**FAP ROUTE 857 (IL 14)
SECTION D9 BRIDGE OVERLAY 2026-3
PROJECT BR-T761(501)
BRIDGE OVERLAY, BRIDGE REPAIR
WHITE COUNTY**

C-99-080-25



PROJECT LOCATION
SN 097-0032
STA. 268+25.75
IL 14 OVER FOX
RIVER SLOUGH

LOCATION OF SECTION INDICATED THUS:



EXPIRES: 11/30/2025

SIGNATURE:

DATE SIGNED: 10/15/2025

KT KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
100 N. 11th Street, 2nd Floor
Springfield, IL 62761
Phone: 217-219-0000
Professional Design Firm No. 000-000000

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Nov 17 20 25
Don S. Remens
REGIONAL ENGINEER
January 23 26
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT
January 23 26
John J. Harty
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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







GROSS LENGTH = 510.00 FT. = 0.097 MILE
NET LENGTH = 510.00 FT. = 0.097 MILE

K T **KUHN & TRELLO**
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 2nd Floor
Springfield, IL 62761
Phone: 232-679-0044

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	2
		CONTRACT NO. 78B37		
		BLINDS, EED. AND PROJECT		

Prepared By:	
	DISTRICT STUDIES & PLANS ENGINEER
Examined By:	
	DISTRICT LAND ACQUISITION ENGINEER
Examined By:	
	DISTRICT PROGRAM DEVELOPMENT ENGINEER
Examined By:	
	DISTRICT OPERATIONS ENGINEER
Examined By:	
	DISTRICT PROJECT IMPLEMENTATION ENGINEER
Examined By:	
	DISTRICT CONSTRUCTION ENGINEER
Examined By:	
	DISTRICT MATERIALS ENGINEER

GENERAL NOTES

1. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT 2.016 TONS/CU. YD.
2. THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION OVER THE HMA SURFACE COURSE.
3. EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.

COMMITMENTS

NONE.

HMA MIXTURE REQUIREMENTS

LOCATION(S)	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT SHOULDERS	WATERPROOFING (SURFACE LIFT)	WATERPROOFING (BINDER LIFT)
MIXTURE USE(S)	POLYMERIZED STONE MATRIX ASPHALT, SURFACE, MIX D, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30	POLYMERIZED STONE MATRIX ASPHALT, SURFACE, MIX D, N50	HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50
AB/PG	SBS PG 76-22	PG 64-22	SBS PG 76-22	SBS PG 76-22
DESIGN AIR VOIDS	4.0%, 50 GYRATION DESIGN	4.0%, 30 GYRATION DESIGN	4.0%, 50 GYRATION DESIGN	4.0%, 50 GYRATION DESIGN
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL-9.5 MM	IL-9.5L	IL-9.5 MM	IL-4.75 MM
FRICTION AGGREGATE	MIX D	NONE	MIX D	NONE
MIXTURE WEIGHT	112 LBS/SY YD/INCH	112 LBS/SY YD/INCH	112 LBS/SY YD/INCH	112 LBS/SY YD/INCH
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	3000 TONS	3000 TONS	3000 TONS	3000 TONS
MATERIAL TRANSFER DEVICE	NO	NO	NO	NO

INDEX OF SHEETS

1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES, INDEX OF SHEETS AND STANDARDS
4 - 6	SUMMARY OF QUANTITIES
7 - 8	TYPICAL SECTIONS
9	SCHEDULE OF QUANTITIES
10	ROADWAY PLAN
11 - 13	STAGING PLANS
14	WIDTH RESTRICTION SIGN DETAILS
15	BUTT JOINT DETAILS
16 - 27	STRUCTURE REPAIR PLANS
28 - 29	EXISTING STRUCTURE PLANS (FOR INFORMATION ONLY)

STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-11	PAVEMENT JOINTS
483001-06	PCC SHOULDER
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

REV - MS

MODEL: Sheet
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COUNTY:	WHITE
ROUTE:	FAP 857 (IL 14)
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL
	BRIDGE
	0047
	S.N. 097-0032

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	8	8
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	144	144
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	214	214
40600990	TEMPORARY RAMP	SQ YD	36	36
40605022	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "D", N50	TON	115	115
42001300	PROTECTIVE COAT	SQ YD	16	16
48203100	HOT-MIX ASPHALT SHOULDERS	TON	7	7
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	260	260
50102400	CONCRETE REMOVAL	CU YD	4.5	4.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	5.6	5.6
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	610	610
50800515	BAR SPLICERS	EACH	16	16
52000110	PREFORMED JOINT STRIP SEAL	FOOT	34	34
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	15	15

* SPECIALTY ITEM

REV - MS

 <div>KUHN & TRELLO CONSULTING ENGINEERS <small>A Limited Liability Company</small> 109 N. 7th Street, 2nd Floor Springfield, IL 62701 Phone: 217-679-0044 <small>Professional Design Firm No. 184-006516</small></div>	USER NAME = lsmalley	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - LJS	REVISED -					857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	4
		CHECKED - JRS	REVISED -					CONTRACT NO. 78B37				
	PLOT DATE = 11/20/2025	DATE = 6/23/25	REVISED -		SCALE:	SHEET 1	OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

MODEL: Sheet
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COUNTY:	WHITE
ROUTE:	FAP 857 (IL 14)
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL
	BRIDGE
	0047
	S.N. 097-0032

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
52100520	ANCHOR BOLTS, 1"	EACH	4	4
53016000	DECK SLAB REPAIR (PARTIAL)	SQ YD	23	23
53016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	3.7	3.7
53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	65	65
58100210	FULL LANE SEALANT WATERPROOFING SYSTEM	SQ YD	1006	1006
59000200	EPOXY CRACK INJECTION	FOOT	76	76
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	2	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1

* SPECIALTY ITEM

REV - MS

<div><div><div>KT</div><div>KUHN & TRELLO</div><div>CONSULTING ENGINEERS</div><div>A Limited Liability Company</div><div>109 N. 7th Street, 2nd Floor</div><div>Springfield, IL 62701</div><div>Phone: 512-679-0044</div></div><div>Professional Design Firm No. 184-006516</div></div>	USER NAME = lsmalley	DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - LJS	REVISED -					857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	5
	PLOT DATE = 11/20/2025	DATE = 6/23/25	REVISED -		SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.			CONTRACT NO. 78B37				
								ILLINOIS FED. AID PROJECT				

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Professional Design Firm No. 184-006516

USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - LJS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 11/24/2025	DATE = 6/23/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

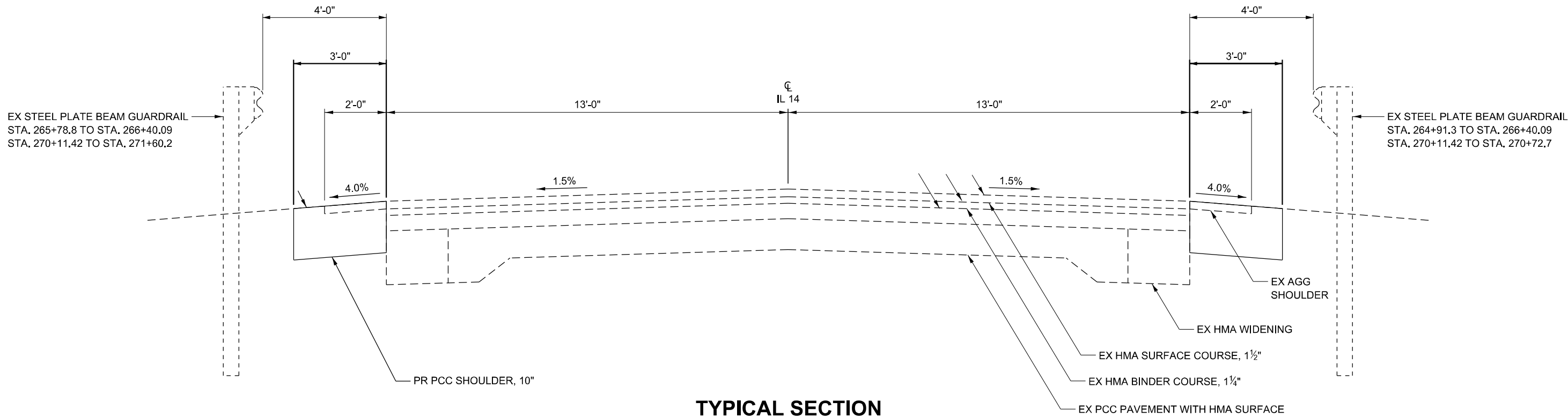
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857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	6
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				

REV - MS

			COUNTY:	WHITE
			ROUTE:	FAP 857 (IL 14)
			FUNDING:	80% FED / 20% STATE
			LOCATION:	RURAL
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0047
				S.N. 097-0032
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	1027	1027
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	40	40
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	442	442
70400100	TEMPORARY CONCRETE BARRIER	FOOT	650	650
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	650	650
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	2	2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	846	846
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	43	43
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1
X6050182	PLUG EXISTING DECK DRAINS	EACH	44	44
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	15	15

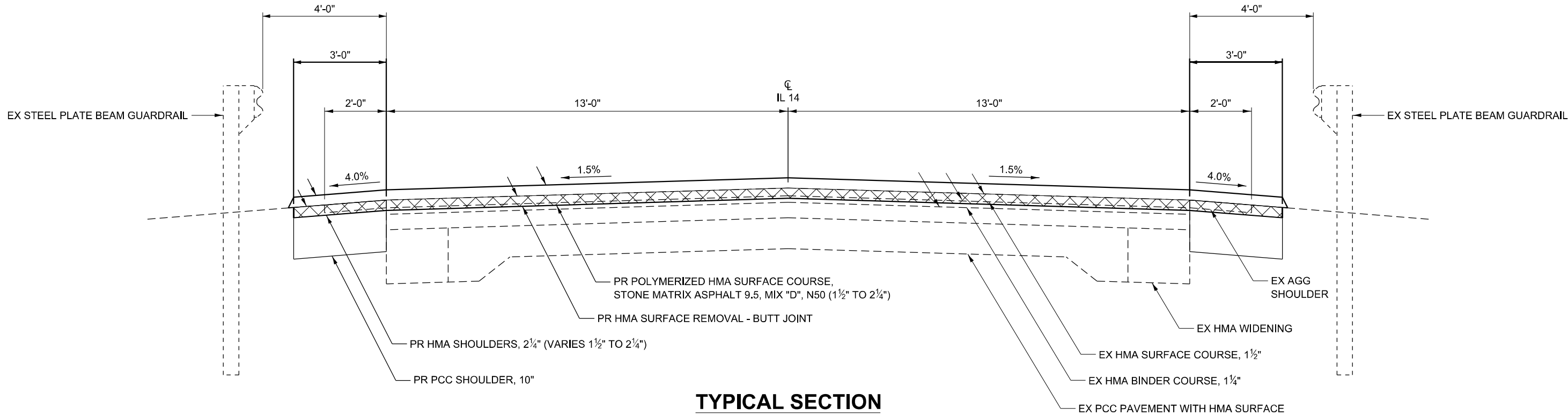
* SPECIALTY ITEM

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TYPICAL SECTION

STA. 265+54.92 TO STA. 267+04.92
STA. 270+77.75 TO STA. 272+27.75



TYPICAL SECTION

STA. 267+04.92 TO STA. 267+49.92
STA. 270+32.75 TO STA. 270+77.75



USER NAME = msulheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 11/5/2025	DATE - 8/07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	7
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				



MODEL: Sheet
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TEMPORARY CONCRETE BARRIER SCHEDULE						
LOCATION			OFFSET	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE,NARROW), TEST LEVEL 3
STATION	TO	STATION	LT/RT	FOOT	FOOT	EACH
265+67.8			6.8 RT			1
265+67.8			6.8 LT			1
265+67.8	TO	266+79.7	-	112.50	112.50	
266+79.7	TO	271+04.7	2.5 LT	425.00		
266+79.7	TO	271+04.7	1.5 RT		425.00	
271+04.7	TO	272+16.8	-	112.50	112.50	
272+16.8			6.8 RT			1
272+16.8			6.8 LT			1
TOTAL				650	650	2

PAVEMENT MARKING SCHEDULE						
LOCATION			PAVEMENT MARKING BLACKOUT TAPE, 5"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	PAINT PAVEMENT MARKING - LINE 4"
STATION	TO	STATION	FOOT	FOOT	SQ FT	EDGE (WHITE)
263+54	TO	267+05	90		37.5	
265+88	TO	271+98	610		254.2	
265+88	TO	267+05	117		48.8	
267+05	TO	270+78		40	13.4	746
270+78	TO	271+98	120		50.0	
270+78	TO	274+33	90		37.5	
TOTAL			1,027	40	441.4	746
						846

PAVING SCHEDULE							
LOCATION			FULL LANE SEALANT WATERPROOFING SYSTEM	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5. MIX "D", N50
STATION	TO	STATION	SQ YD	POUND	SQ YD	SQ YD	TON
265+55	TO	267+50					130.0
267+05	TO	267+10				17.8	
267+05	TO	267+50			106.7		
267+05	TO	267+50		72.0			15.0
267+50	TO	270+33	1006.0				85.0
270+33	TO	272+28					130.0
270+33	TO	270+78		72.0	106.7		15.0
270+73	TO	270+78				17.8	
TOTAL			1,006.0	144.0	213.3	35.6	115.0

KT

KUHN & TRELLO

CONSULTING ENGINEERS

A Limited Liability Company

109 N. 7th Street, 3rd Floor

Springfield, IL 62761

Phone: 312-676-0044

Professional Design Firm No. 184-006556

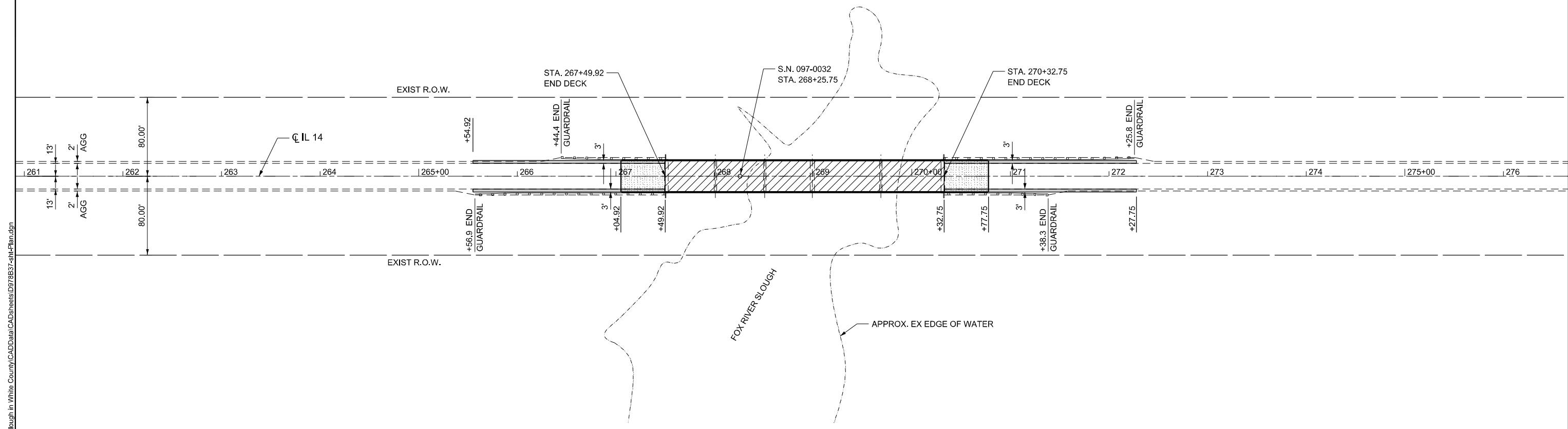
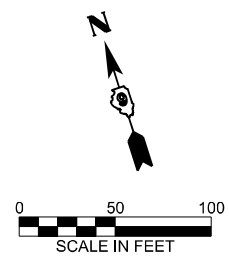
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PLOT DATE = 11/20/2025	DATE - 5/30/25	REVISED -

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	9
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				



LEGEND

- PR PCC SHOULDER, 10"
- PR HMA SURFACE REMOVAL - BUTT JOINT
- PR HMA SURFACE COURSE & FULL LANE SEALANT WATERPROOFING SYSTEM

MODEL: Sheet
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<div>KUHN & TRELLO CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62701 Phone: 217-698-0844 Professional Design Firm No. 184-006556</div>	USER NAME = msulheard		DESIGNED - JRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN			F.A.P. RTE. 857	SECTION D9 BRIDGE OVERLAY 2026-3	COUNTY WHITE	TOTAL SHEETS 29	SHEET NO. 10
			DRAWN - MDS	REVISED -					CONTRACT NO. 78B37				
			CHECKED - JRS	REVISED -					ILLINOIS FED. AID PROJECT				
	PLOT DATE = 9/22/2025		DATE - 5/30/25	REVISED -		SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.			

MODEL: Sheet
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PLOT DATE = 10/15/2025

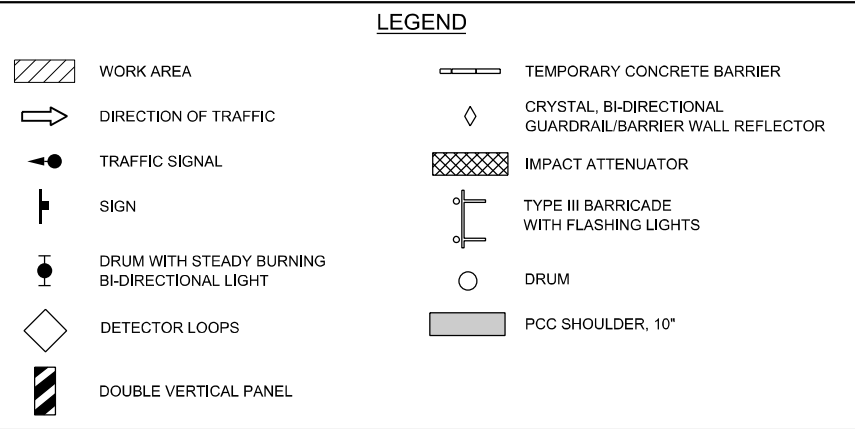
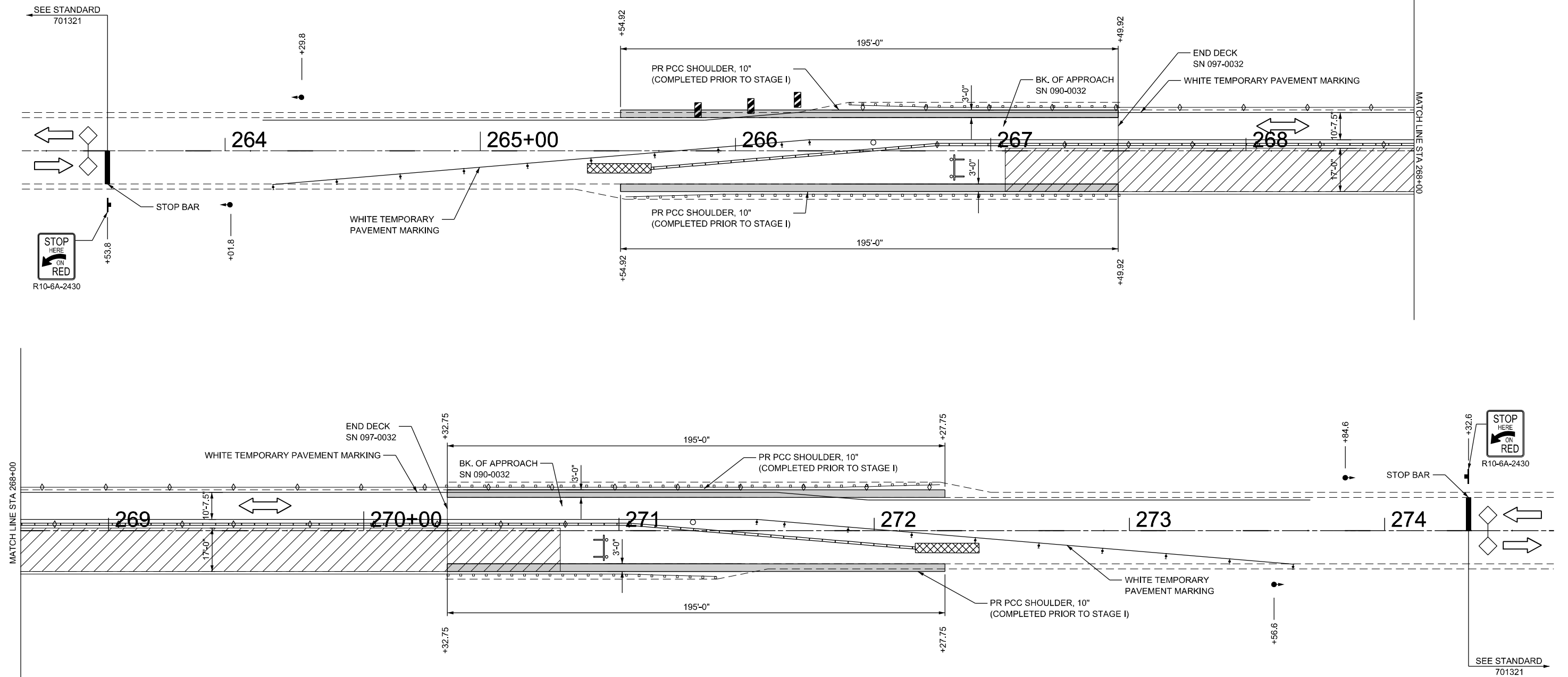
DESIGNED - JRS
DRAWN - LJS
CHECKED - JRS
DATE - 6/20/25
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STAGE I

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

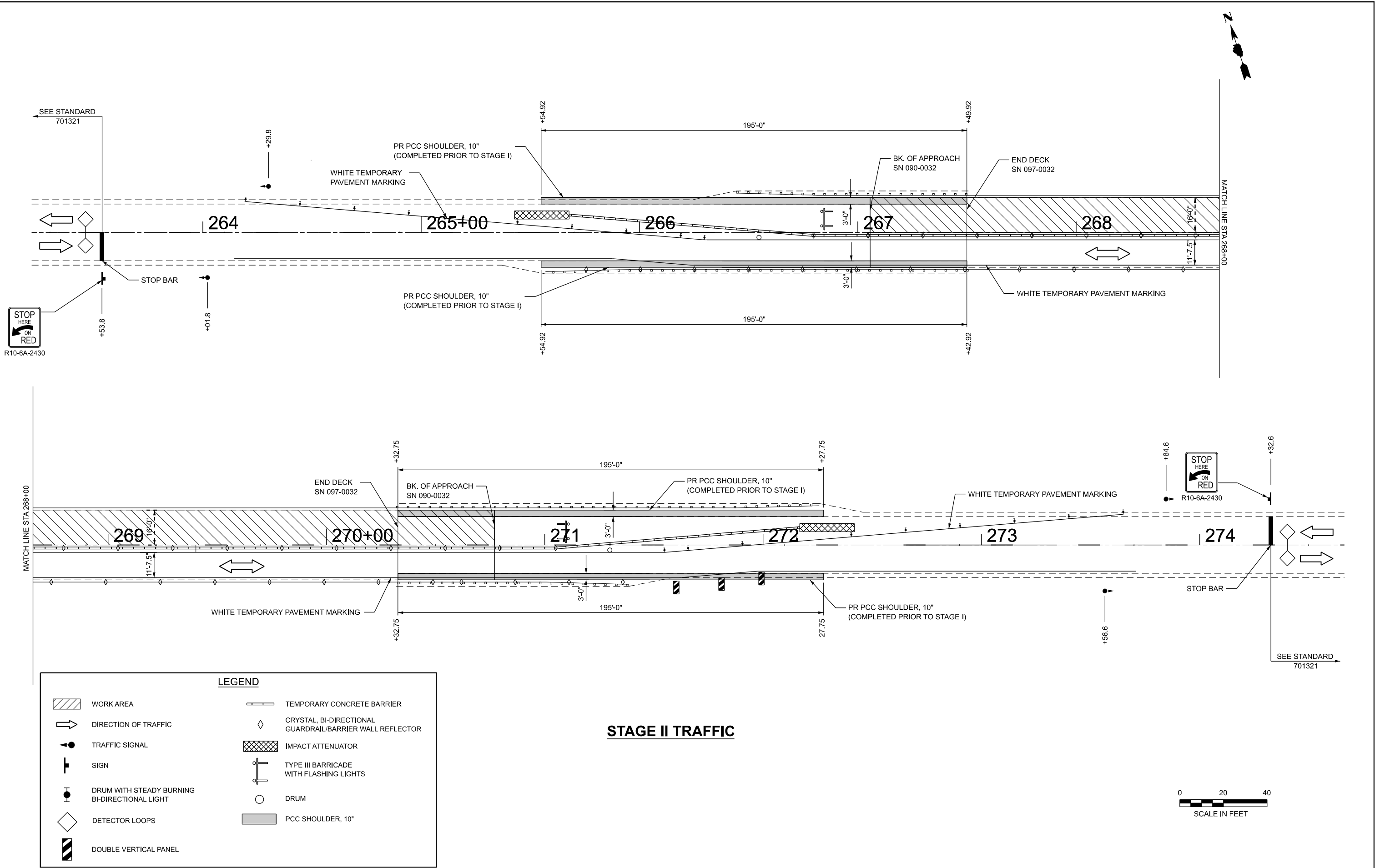
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857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	12
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				



STAGE I TRAFFIC



MODEL: Sheet
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LEGEND

- | | | | |
|--|---|--|--|
| | WORK AREA | | TEMPORARY CONCRETE BARRIER |
| | DIRECTION OF TRAFFIC | | CRYSTAL, BI-DIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR |
| | TRAFFIC SIGNAL | | IMPACT ATTENUATOR |
| | SIGN | | TYPE III BARRICADE WITH FLASHING LIGHTS |
| | DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT | | DRUM |
| | DETECTOR LOOPS | | PCC SHOULDER, 10" |
| | DOUBLE VERTICAL PANEL | | |

STAGE II TRAFFIC



USER NAME = Ismailley
PLOT DATE = 11/20/2025

DESIGNED - JRS
DRAWN - LJS
CHECKED - JRS
DATE - 6/20/25

REVISED -
REVISED -
REVISED -
REVISED -

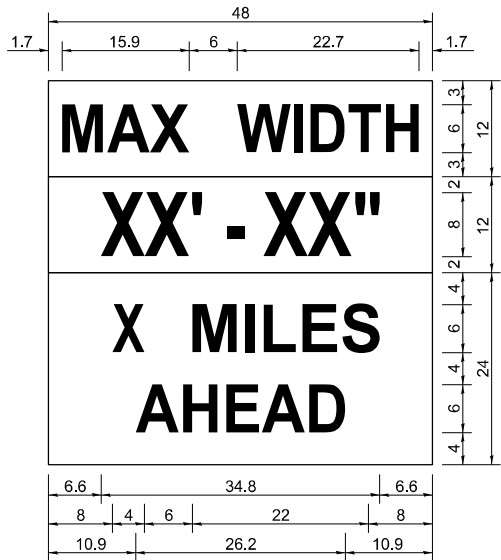
STATE OF ILLINOIS
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STAGE CONSTRUCTION DETAILS
STAGE II

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	13
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet
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W12-I103

W12-I103 (WIDTH IS 80)
NO BORDER, BLACK ON WHITE:
[MAX WIDTH] D:

NO BORDER, BLACK ON ORANGE:
[XX' - XX"] D:

NO BORDER, BLACK ON WHITE:
[X MILES] D: [AHEAD] D:

ALL DIMENSIONS ARE IN INCHES UNLESS
OTHERWISE NOTED.

NOTES FOR MAX WIDTH SIGN:

1. INSTALL A MAX WIDTH SIGN EACH DIRECTION ON IL 14 TO GIVE TRAFFIC APPROACHING WORK ZONE ENOUGH ADVANCE NOTICE TO CHANGE ROUTES IF NEEDED. EXACT LOCATIONS AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATION DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE POST MOUNTED.
3. THE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE, AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR TRAFFIC CONTROL AND PROTECTION, STD. 701321. NO OTHER COMPENSATION WILL BE ALLOWED.
4. THE WIDTH SHOWN ON THE W12-I103 SIGN SHALL BE 11'-1" FOR STAGE I AND 12'-1" FOR STAGE II.
5. THE "X MILES AHEAD" WILL BE DETERMINED BY THE ENGINEER.

KT

KUHN & TRELLO

CONSULTING ENGINEERS

A Limited Liability Company

109 N. 7th Street, 3rd Floor

Springfield, IL 62701

Phone: 217-678-0844

Professional Design Firm No. 184-006556

USER NAME = msulheard

DESIGNED - JRS

REVIS

DRAWN - MDS

REVIS

CHECKED - JRS

REVIS

DATE - 6/02/25

REVIS

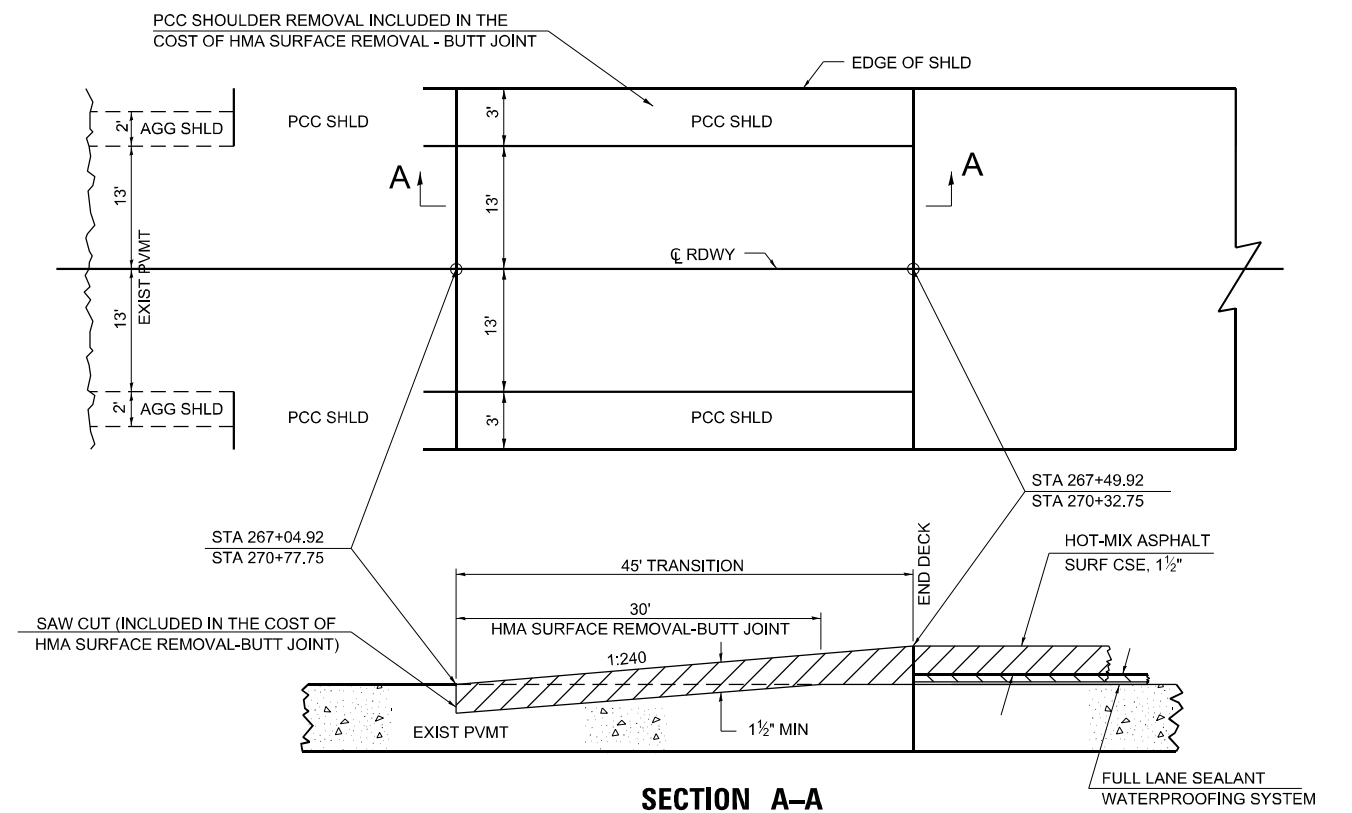
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAX WIDTH SIGNING DETAILS			
SCALE:	SHEET 4	OF 5	SHEETS
STA.		TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	14
CONTRACT NO. 78B37				
ILLINOIS		FED. AID PROJECT		

BUTT JOINT



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

SCALE:	SHEET 5	OF 5	SHEETS	STA.	TO STA.
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	15
		CONTRACT NO. 78B37		
		ILLINOIS FED. AID PROJECT		

Existing Structure:
SN 097-0032 Sta. 268+25.75
Originally constructed in 1932 as SBI Rt 139 under Section 101-B. The original structure was a 3 span, 7" RC deck on 28" Beth I-97# steel beams supported by concrete pile bents. In 1983 the structure was widened with new W27x114 steel exterior beams and deck removed and replaced. The structure was also extended two additional spans. The new two span structure was a 7" RC Deck on 7 - W33x130 steel beams supported by concrete pile bents. The out to out of structure is 34'-0" and back to back is 284'-4".

SCOPE OF WORK

- 1. Perform deck repairs as shown.
- 2. Replace Expansion Joint at Bent 4,
- 3. Replace Bearings at Bent 4.
- 4. Perform substructure repairs as shown.
- 5. Overlay deck with 1½" HMA overlay & ¾" waterproofing system.

DESIGN SPECIFICATIONS

NEW CONSTRUCTION
2002 AASHTO Standard Specifications
for Highway Bridges, 17th Edition

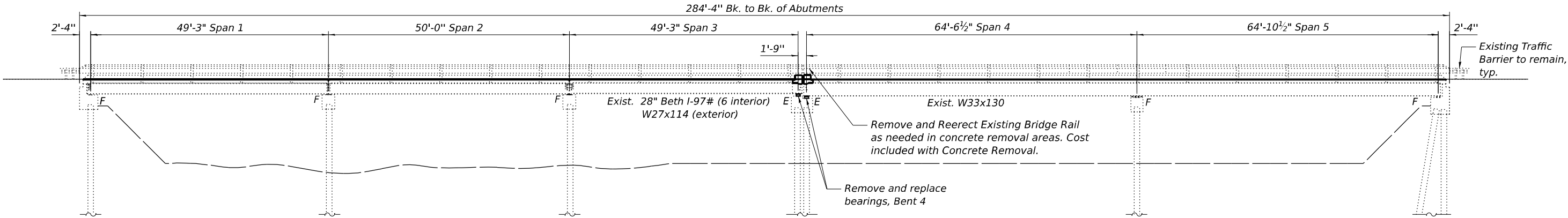
EXISTING
1977 Design Specifications & 1978
& 1979 Interim Specifications

LOADING H20-44 (EXISTING)

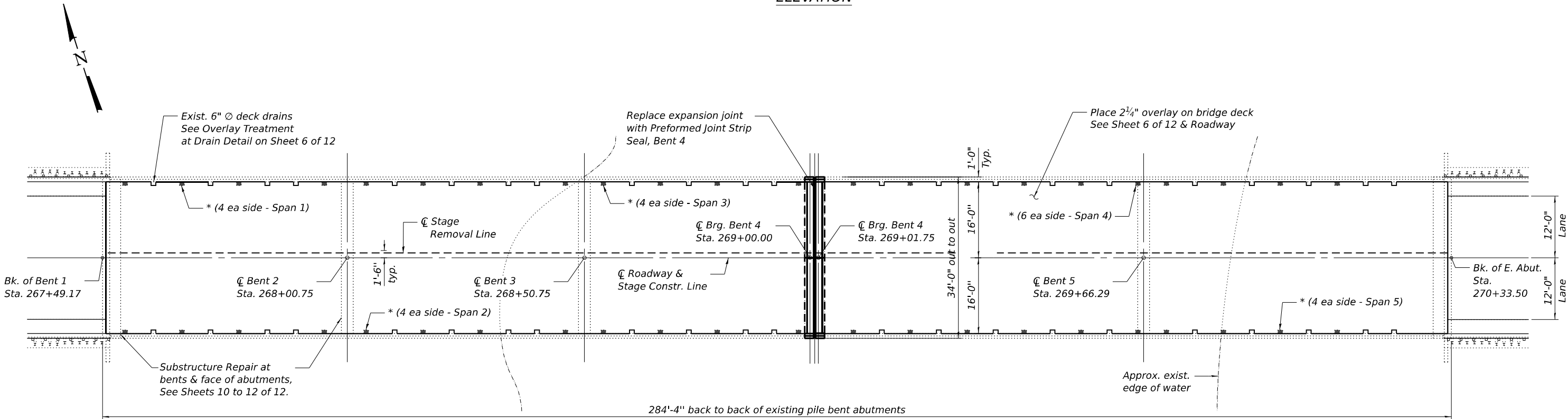
DESIGN STRESSES

FIELD UNITS

EXISTING CONSTRUCTION	NEW CONSTRUCTION
$f_c = 3,500 \text{ psi}$	$f_c = 4,000 \text{ psi}$
$f_y = 60,000 \text{ psi}$ (Reinforcement)	$f_y = 60,000$ (Reinf.)
$f_y = 36,000 \text{ psi}$ (Structural Steel)	$f_y = 36,000 \text{ psi}$ (M270 Gr. 36) (Str. Steel)

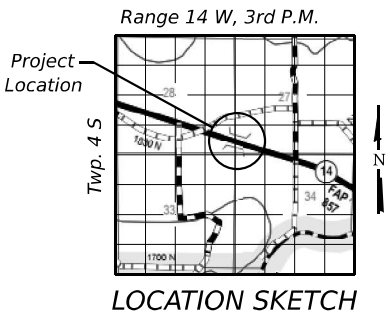


ELEVATION



PLAN

Note:
* Plug Existing Deck Drain. See detail sheet 5 of 12.



BRIDGE REPAIRS
F.A.P. 857 (IL 14)
OVER FOX RIVER SLOUGH
SECTION (101-BR-2)BRR
WHITE COUNTY
STATION 268+25.75
S.N. 097-0032

Professional Design Firm No. 184-006334

Professional Engineer

Michael J. Trello

Professional Engineer

Professional Design Firm No. 184-006334

Date: November 17, 2025
Expires: November 30, 2026

USER NAME =	DESIGNED - PDA	REVISED -
PLOT SCALE =	CHECKED - PRR	REVISED -
PLOT DATE =	DRAWN - PDA	REVISED -
	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 097-0032

SHEET 1 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	16
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				

- 1 General Plan and Elevation
- 2 General Data
- 3 Deck Repair Details
- 4 Temporary Concrete Barrier
- 5 Joint Removal Details at Bent 4
- 6 Joint Replacement Details at Bent 4
- 7 Preformed Joint Strip Seal
- 8 Bar Splicer Assembly and Mechanical Splicer Details
- 9 Expansion Bearing Details - Bent 4
- 10 - 12 Substructure Repair Details

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 work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

Protective Coat shall be applied to all new concrete

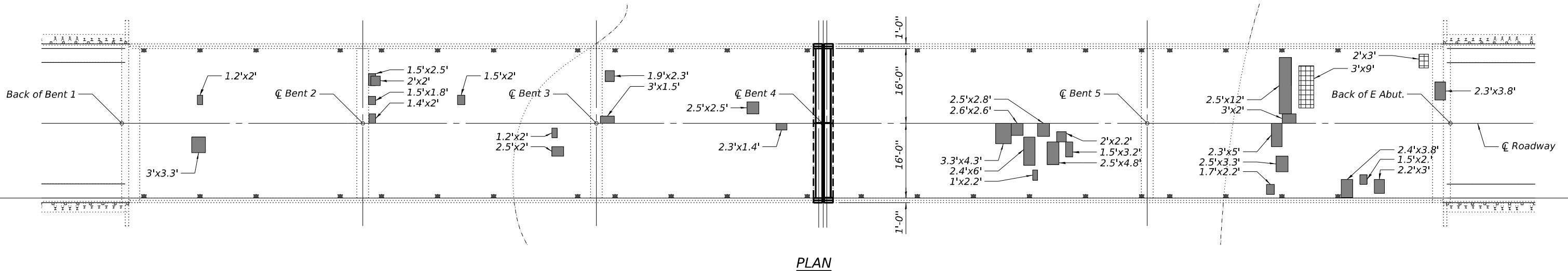
Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	4.5
Concrete Superstructure	Cu. Yd.	5.6
Protective Coat	Sq. Yd.	15.6
Reinforcement Bars, Epoxy Coated	Pound	610
Bar Splicers	Each	16
Preformed Joint Strip Seal	Foot	34
Elastomeric Bearing Assembly, Type 1	Each	15
Anchor Bolts, 1"	Each	4
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	65
Epoxy Crack Injection	Foot	76
Controlled Low Strength Material	Cu. Yd.	2
Plug Existing Deck Drains	Each	44
Jack & Remove Existing Bearings	Each	15
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	3.7
Deck Slab Repair (Partial Depth)	Sq. Yd.	23.0
Polymerized Hot-Mix Asphalt Surface Course, Stone Matrix Asphalt, 9.5, Mix "D", N50	Ton	115
Full Lane Surface Waterproofing System	Sq. Yd.	1006

MODEL: Sheet
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MODEL: Sheet
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LEGEND

- Deck Slab Repair (Partial Depth)
- Deck Slab Repair (Full Depth, Type I)

NOTES:

- The Contractor must use extreme care during concrete removal so as not to damage the Steel Beam.
- Quantities and limits of repairs shown are estimated only. The actual areas to be repaired shall be determined by the Engineer at the time of construction.
- Concrete shall be Class PP-1, PP-2, or BS. For additional requirements of Deck Slab Repair, see Special Provisions.
- For joint replacement details, see sheets 5 & 6 of 12.
- Apply Protective Coat to all new surface areas of Concrete Superstructure.

BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Partial Depth)	Sq. Yd.	23.0
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	3.7
Protective Coat	Sq. Yd.	15.6

KT

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A Limited Liability Company
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Springfield, IL 62701
Phone: 217-678-0844
Professional Design Firm No. 184-006556

USER NAME =

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CHECKED - PRR

PLOT SCALE =

DRAWN - PDA

PLOT DATE =

CHECKED - MJT

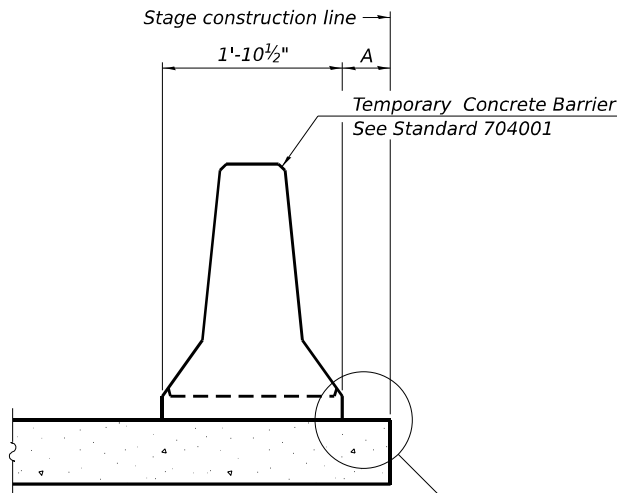
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REPAIR DETAILS
STRUCTURE NO. 097-0032

SHEET 3 OF 12 SHEETS

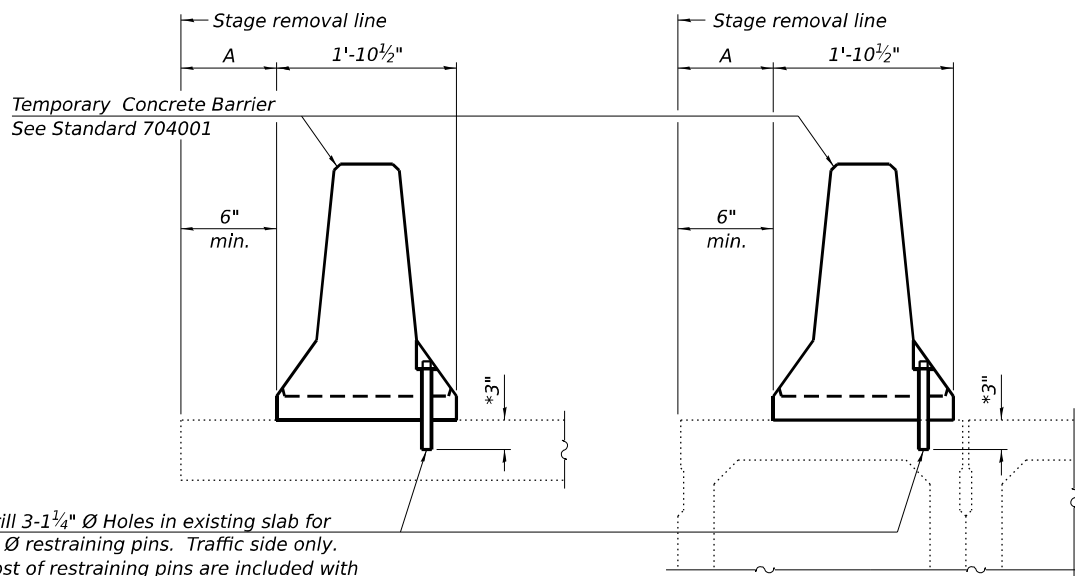
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	18
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet
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When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

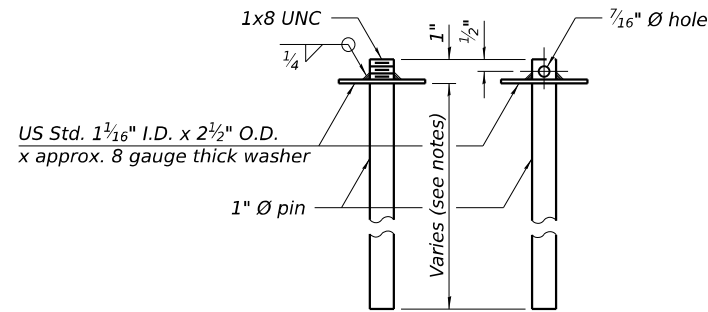


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

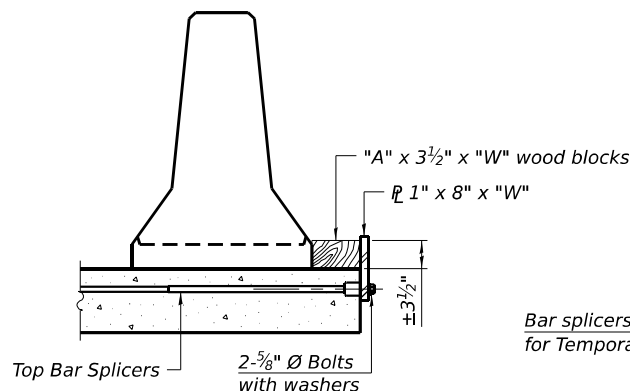
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

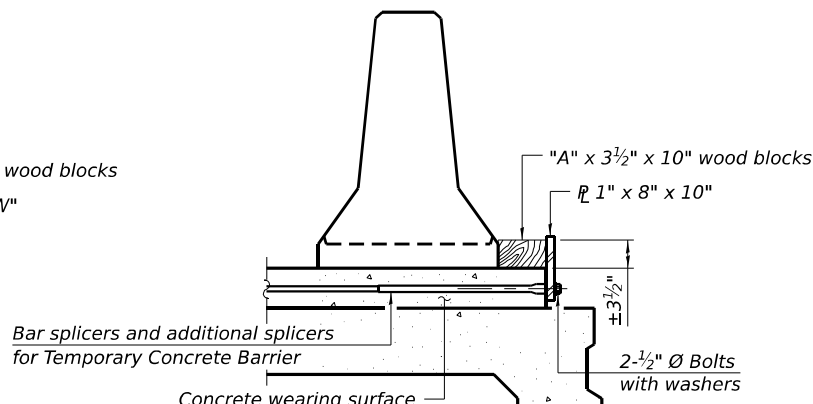


RESTRAINING PIN

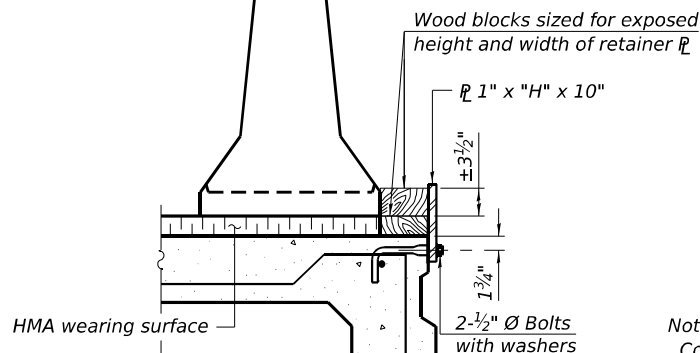
SECTIONS THRU SLAB OR DECK BEAM



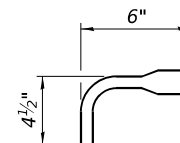
DETAIL I



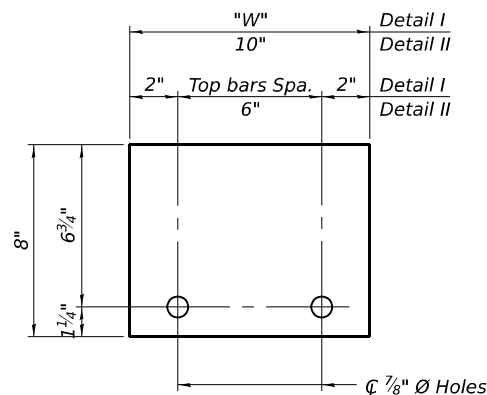
DETAIL II



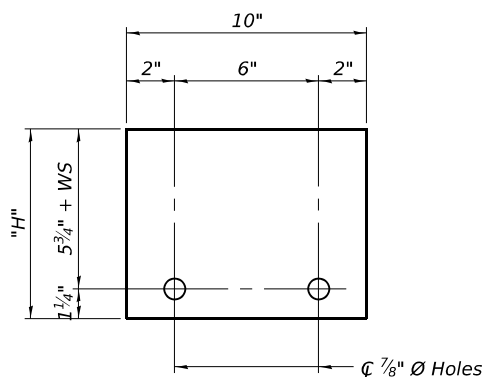
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER \bar{P} 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER \bar{P} 1" x "H" x 10"
(Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023

Notes:

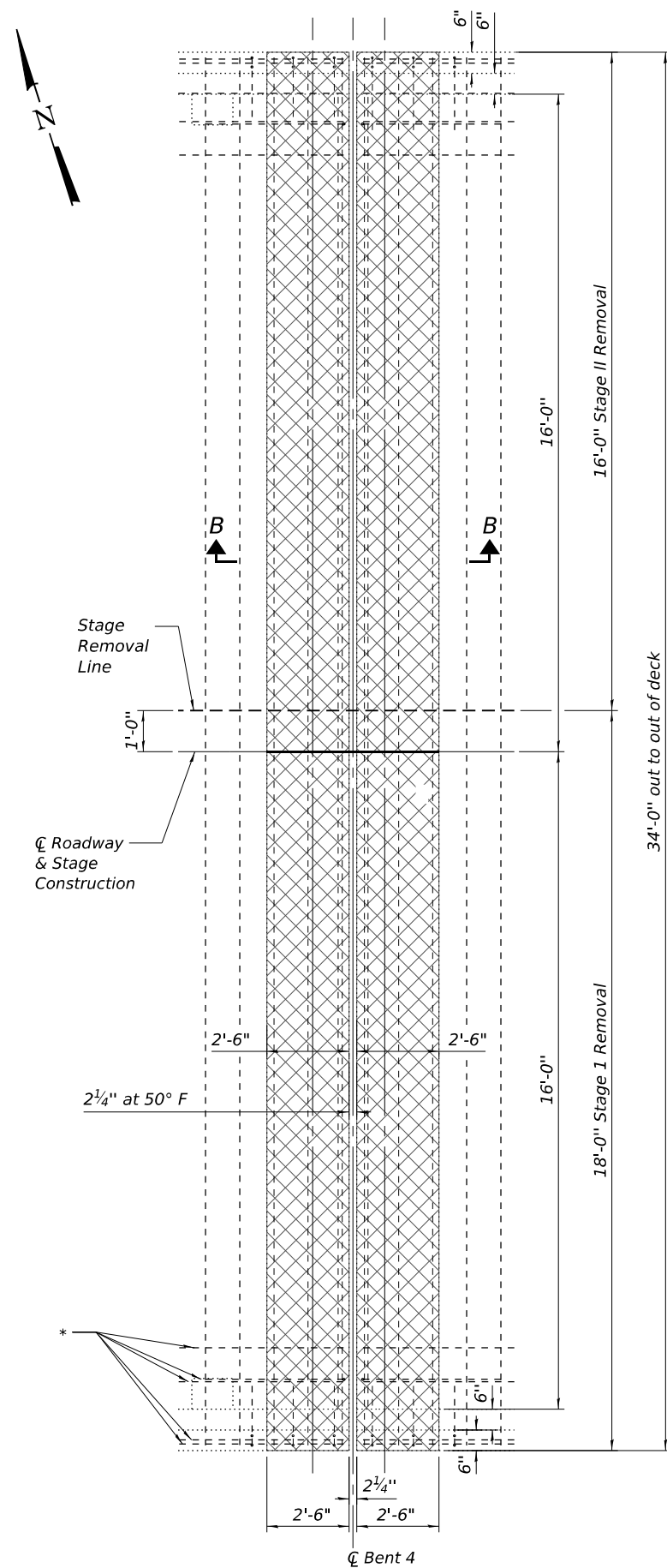
- Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate \bar{C} of each temporary concrete barrier.
- The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
- When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

 KUHN & TRELLO CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62761 Phone: 217-678-0044 Professional Design Firm No. 284-006556	USER NAME =		DESIGNED - PDA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER STRUCTURE NO. 097-0032		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE =		DRAWN - PDA	REVISED -				CONTRACT NO. 78B37				
			CHECKED - MJT	REVISED -		SHEET 4 OF 12 SHEETS		ILLINOIS FED. AID PROJECT				

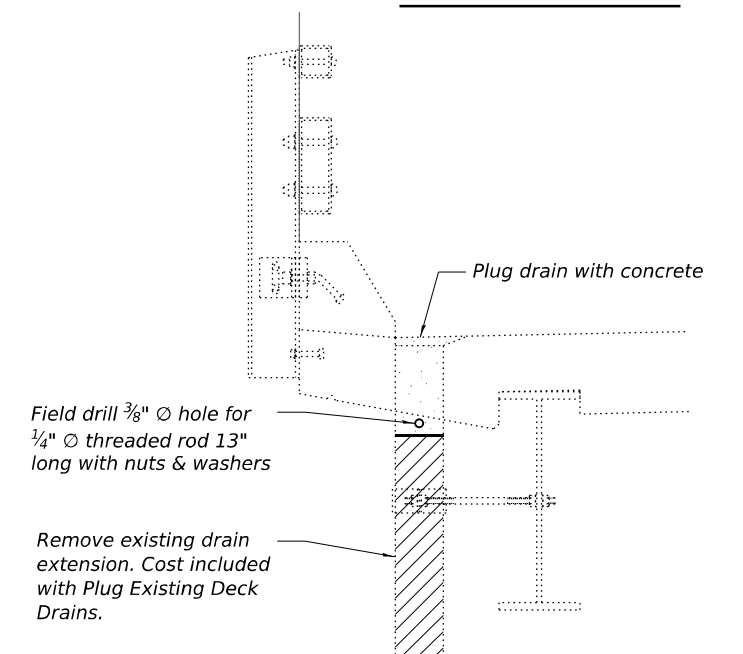
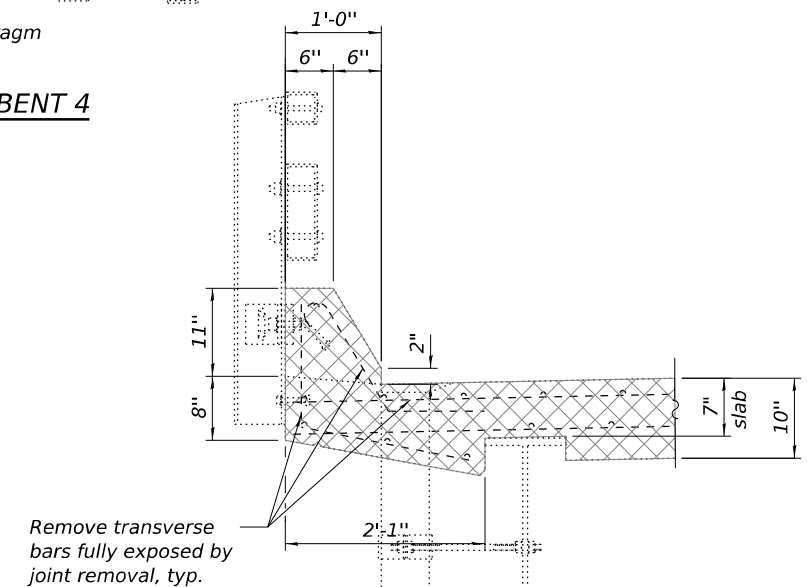
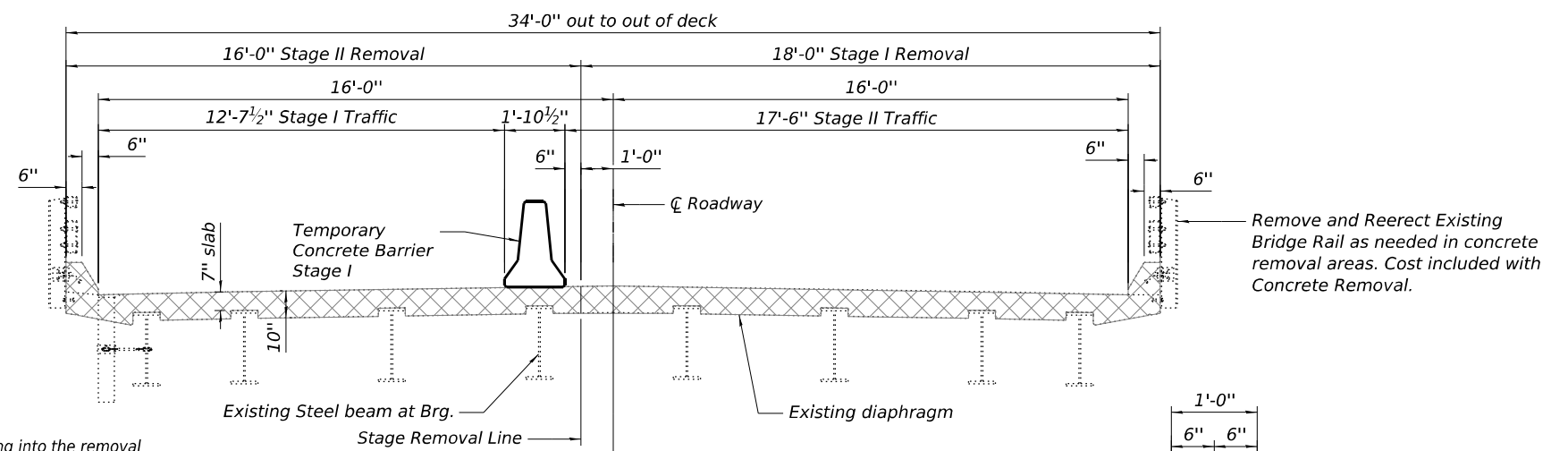
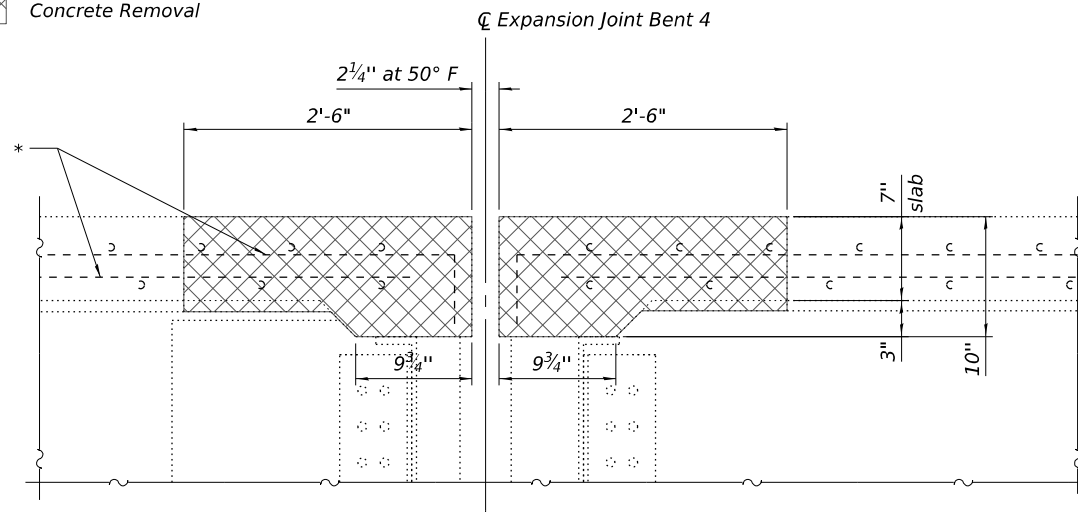


* Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

LEGEND

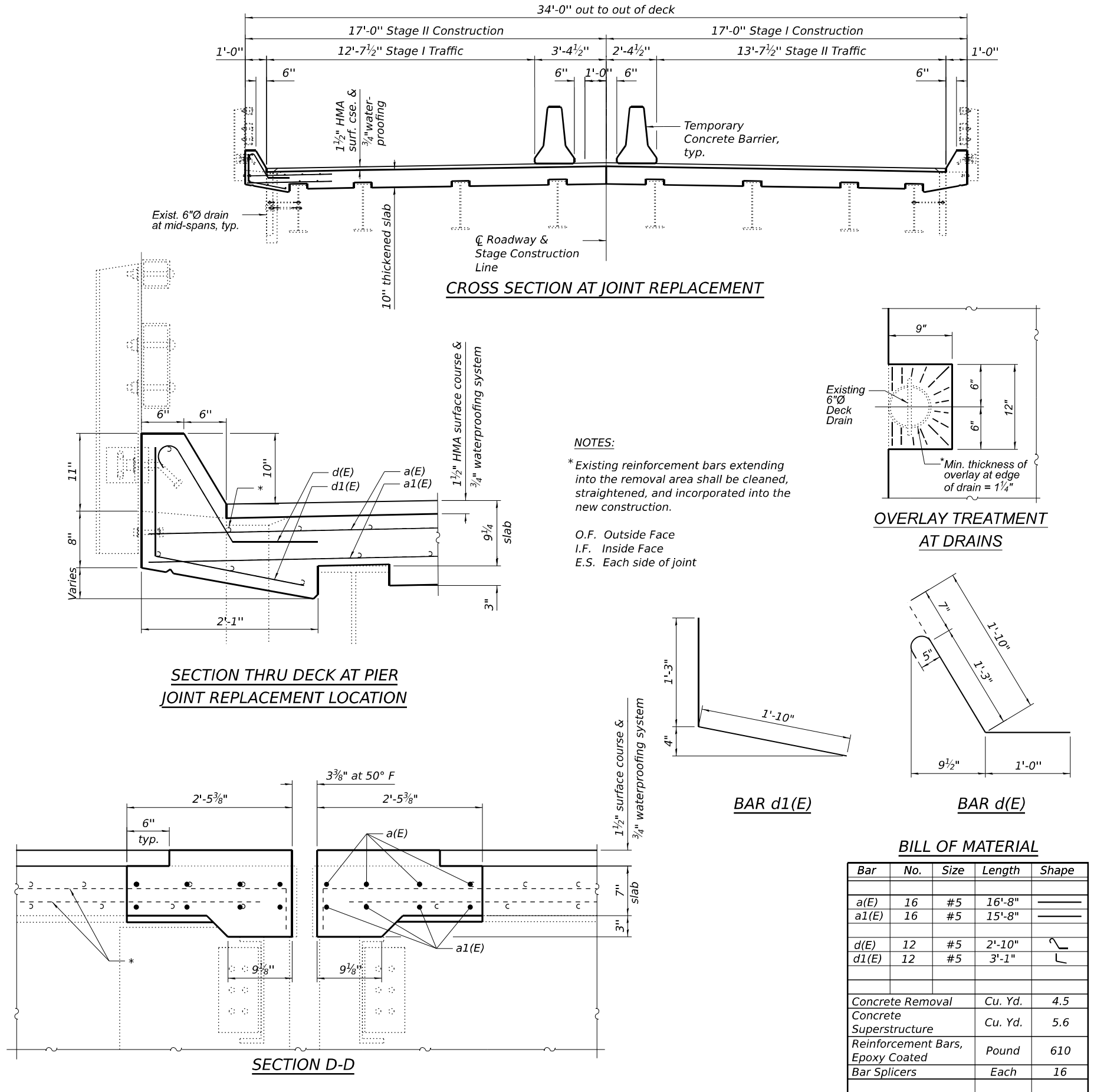
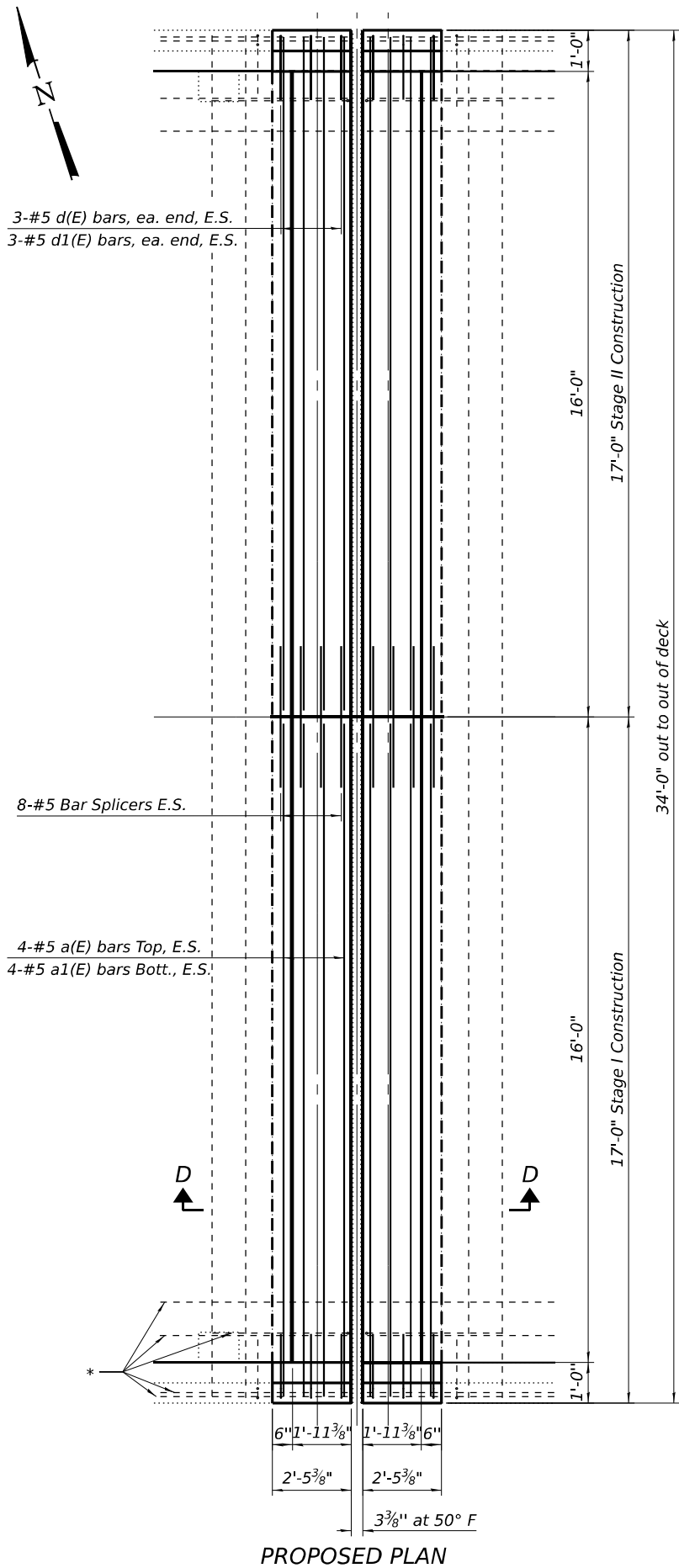


Concrete Removal



(44 locations. See sheet 1 of 12 for drain locations to be plugged.)

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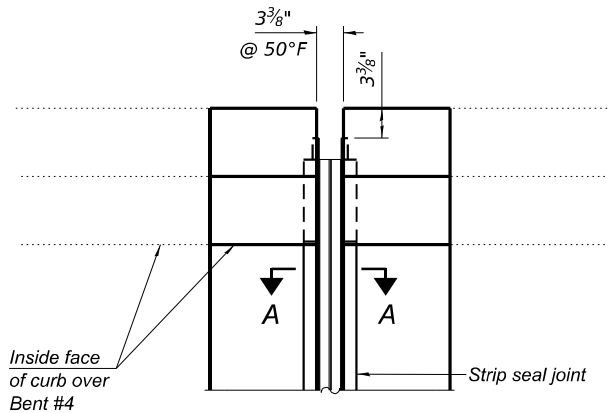


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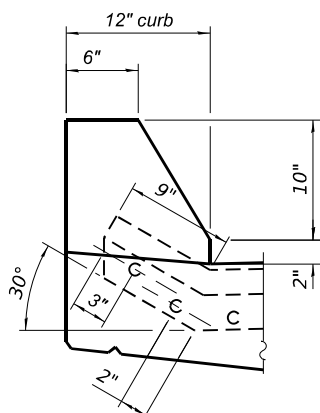
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS - BENT 4
STRUCTURE NO. 097-0032
SHEET 6 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	21
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				

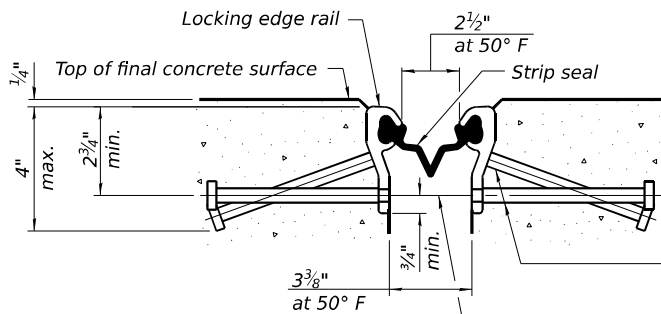


PLAN AT BENT #4



END TREATMENT AT CURB OVER BENT #4

SECTION AT CURB



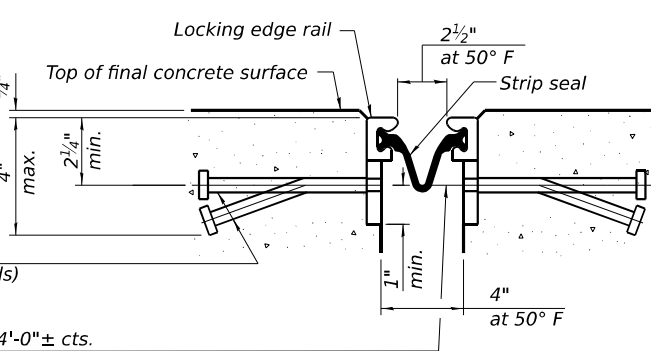
SHOWING ROLLED RAIL JOINT

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

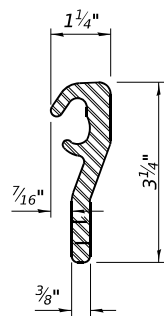
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0" ± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

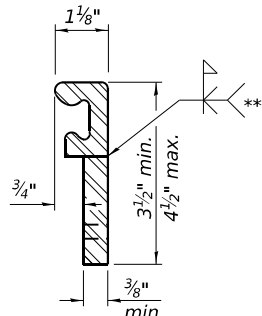
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SHOWING WELDED RAIL JOINT



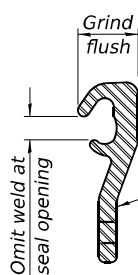
ROLLED (EXTRUDED) RAIL



WELDED RAIL

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	34

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.

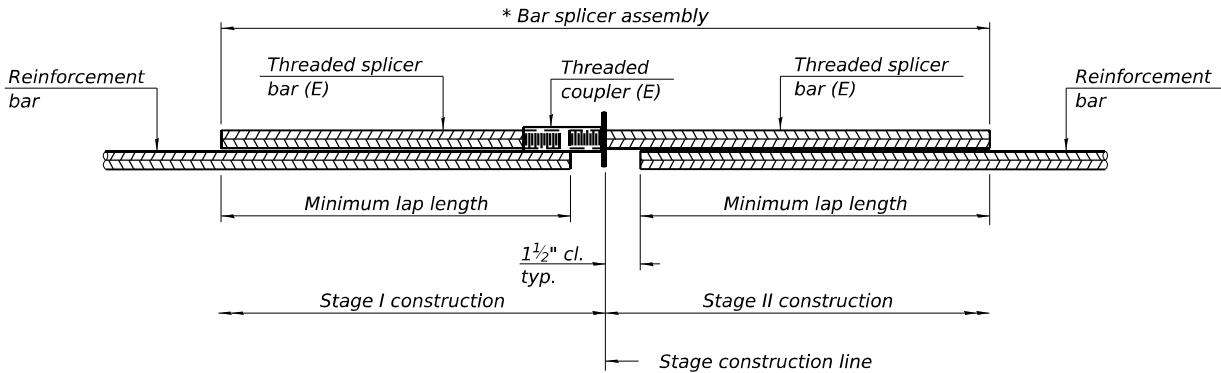
The manufacturer's recommended installation methods shall be followed.

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.

Cost of embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

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.



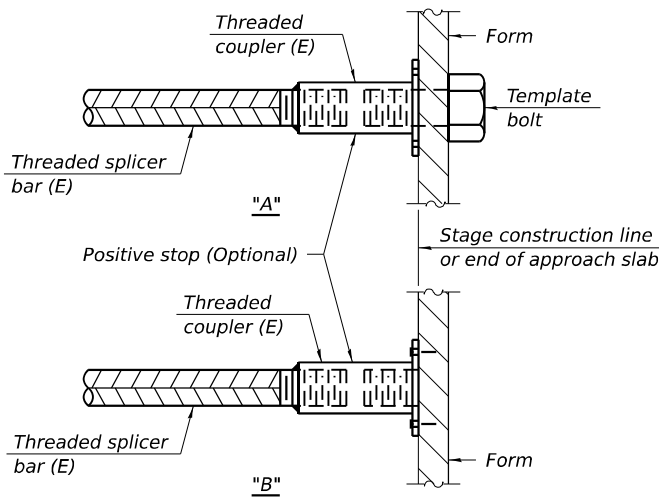
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Bent 4	#5	16	3'-6"

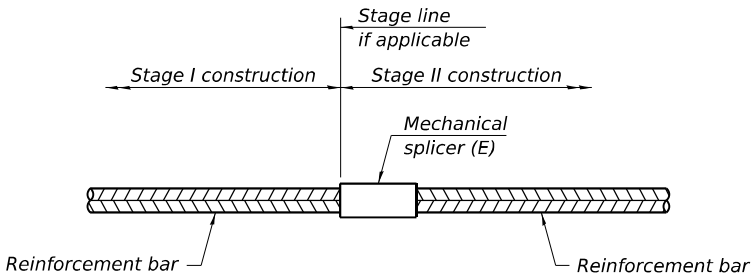


INSTALLATION AND SETTING METHODS

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

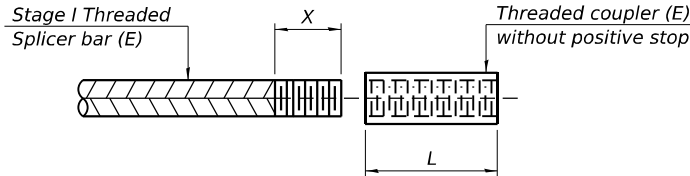
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

Notes:
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

4-4-2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 097-0032

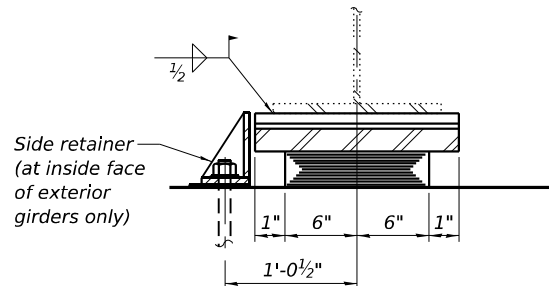
SHEET 8 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	23
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet
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Phone: 217-678-0044
Professional Design Firm No. 284-006556

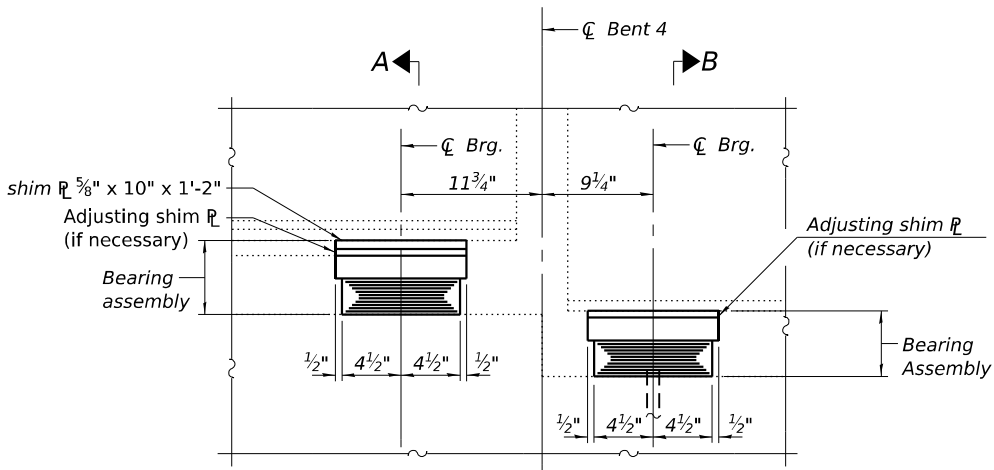


1/2
Side retainer
(at inside face
of exterior
girders only)

1" 6" 6" 1"
1'-0 1/2"

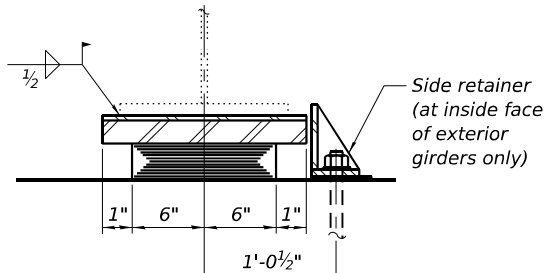
1 1/4" Ø x 12" All-thread
anchor bolt (Grade 36)
with 2 1/4" x 2 1/4" x 5/16"
washer under nut.

SECTION A-A



ELEVATION AT BENT 4

TYPE I ELASTOMERIC EXP. BRG.



1/2
Side retainer
(at inside face
of exterior
girders only)

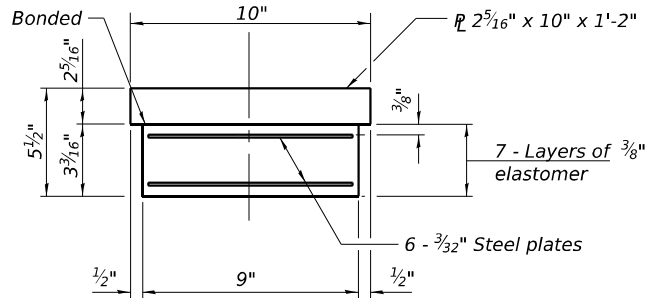
1" 6" 6" 1"
1'-0 1/2"

1" Ø x 12" All-thread
anchor bolt (Grade 36)
with 2 1/4" x 2 1/4" x 5/16"
washer under nut.

SECTION B-B

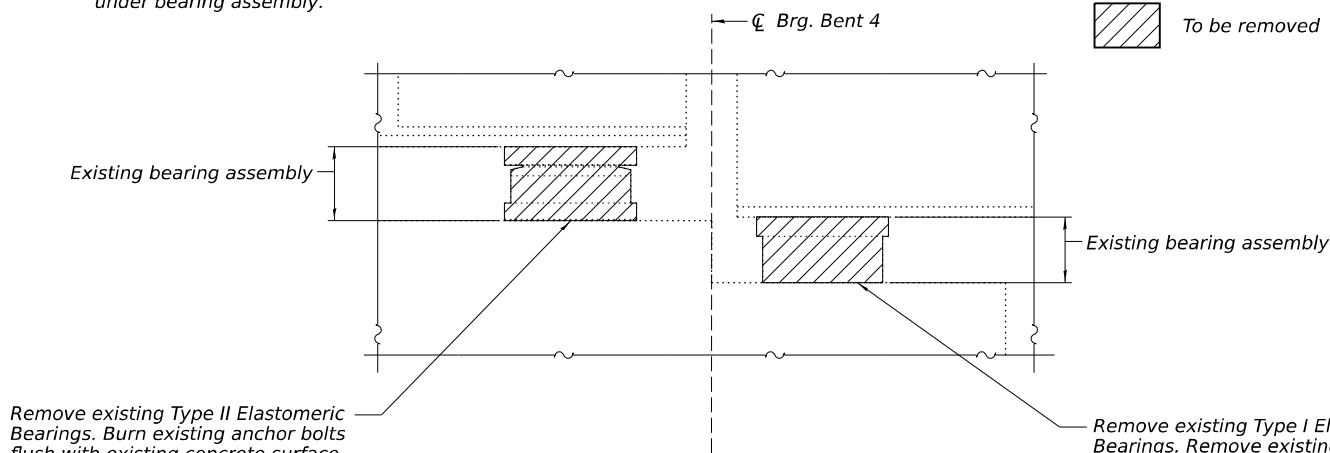
Notes:

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
Min. jack capacity = 44 Tons at Brg's of Bent 4.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers, stainless steel plates, and 5/8" shim plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
All exposed bearing plates and side retainers shall be hot dip galvanized according to AASHTO M111.
The structural steel plates of the Bearing Assembly for the abutments at both structures shall conform to the requirements of AASHTO M270 Grade 50.
The existing bearings contain lead plates. The Contractor shall take precautions to deal with the presence of lead on this project.



BEARING ASSEMBLY

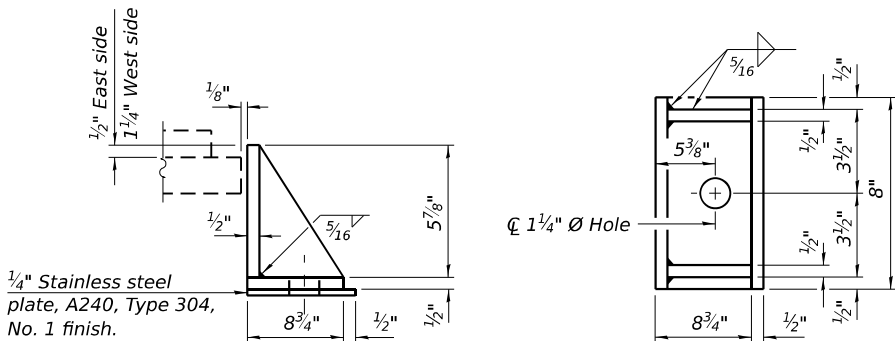
Note:
Shim plates shall not be placed
under bearing assembly.



EXISTING EXPANSION BEARING REMOVAL DETAIL - BENT 4

Remove existing Type II Elastomeric Bearings. Burn existing anchor bolts flush with existing concrete surface. Grind existing bolt smooth and seal with epoxy.

Remove existing Type I Elastomeric Bearings. Remove existing Side Retainers (inside face of exterior girders only). Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.



SIDE RETAINER

Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.
(Inside face of outside girders only)

BEAM REACTIONS

		Bent 4 West Brg. (outside beams)	Bent 4 West Brg. (inside beams)	Bent 4 East Brg.
R DL	(k)	7.2	13.9	19.1
R LL	(k)	29.3	29.3	29.6
Imp.	(k)	9.7	9.7	9.8
R (Total)	(k)	46.2	52.9	58.5

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	15
Jack & Remove Existing Bearings	Each	15
Anchor Bolts, 1"	Each	4

MODEL: Sheet
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K T
KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 2nd Floor
Springfield, IL 62761
Phone: 217-678-0044
Professional Design Firm No. 184-006556

USER NAME =	DESIGNED - PDA	REVISED -
PLOT SCALE =	CHECKED - PRR	REVISED -
PLOT DATE =	DRAWN - PDA	REVISED -
	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION BEARING DETAILS - BENT 4
STRUCTURE NO. 097-0032




SHEET 9 OF 12 SHEETS

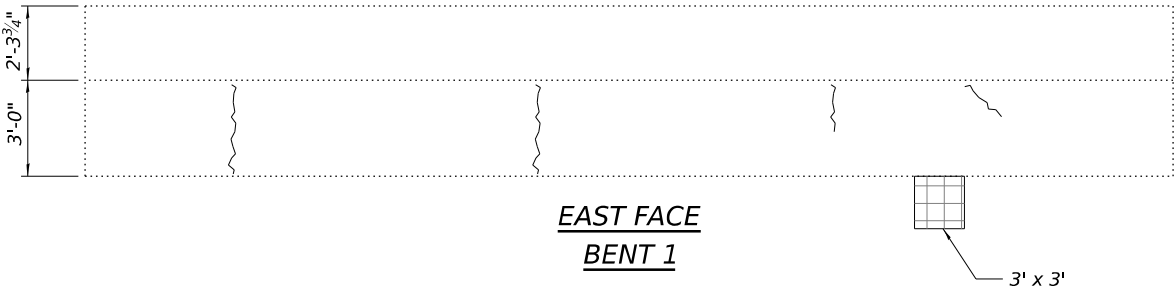
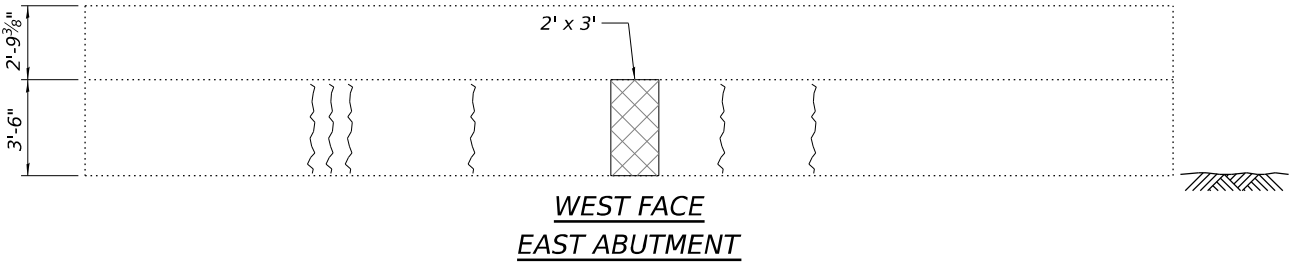
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857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	24
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				

NOTES

1. Repair of the existing substructure shall include but may not be limited to the areas shown.
The actual area to be repaired will be determined by the Engineer at the time of construction.

LEGEND

-  Epoxy Crack Injection
-  Structural Repair of Concrete
(Depth Equal to or less than 5 Inches)
-  Controlled Low Strength Material



BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	6.0
Epoxy Crack Injection	Foot	50
Controlled Low Strength Material	Cu. Yd.	2.0

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR DETAILS - BENT 1 & EAST ABUTMENT
STRUCTURE NO. 097-0032

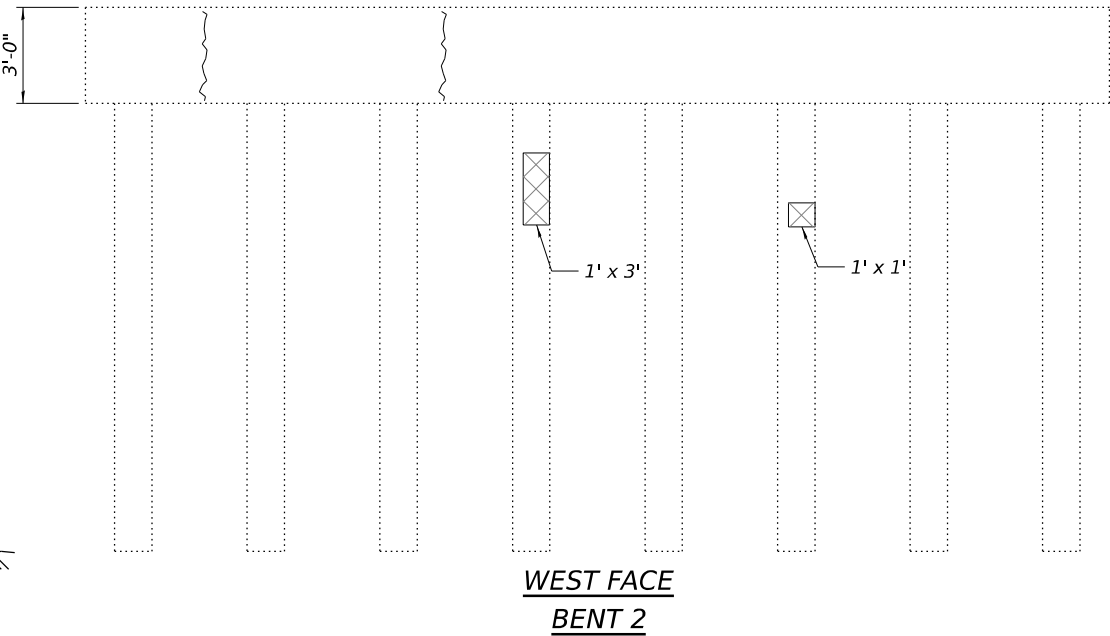
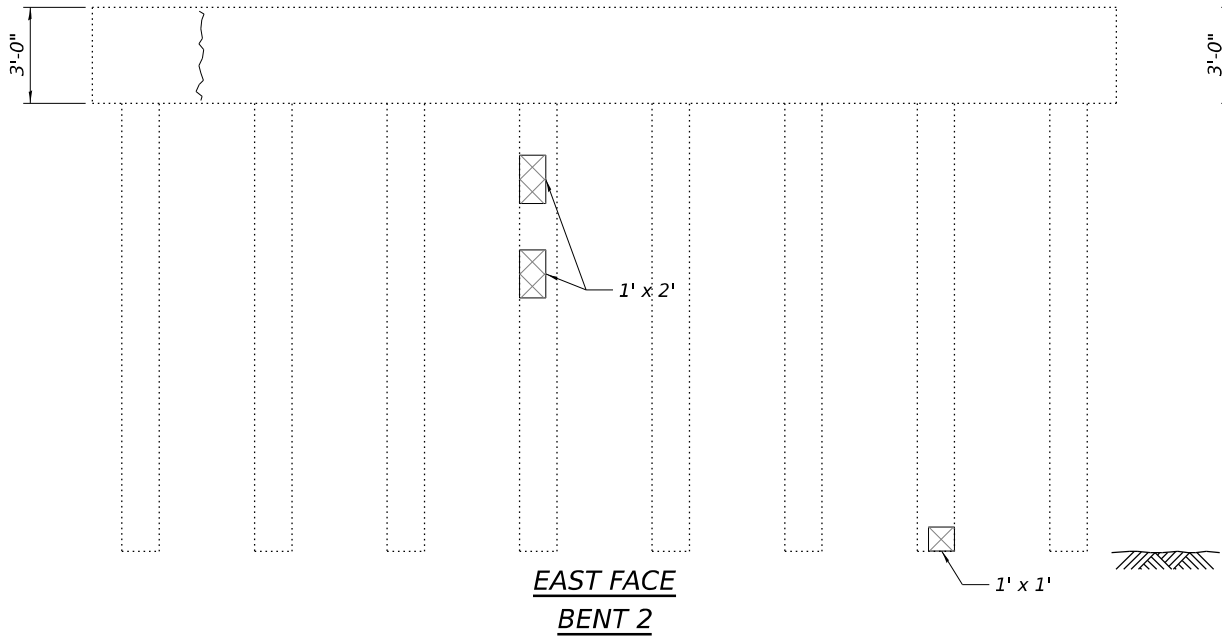
SHEET 10 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	25
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				



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PLOT DATE =	CHECKED - MJT	REVISED -

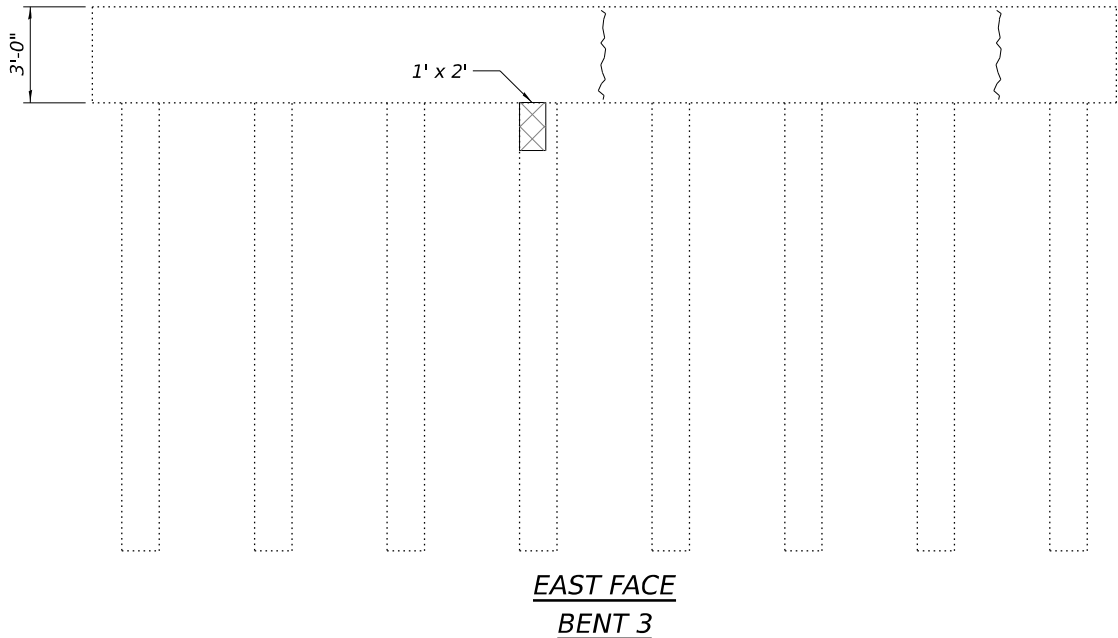
NOTES

1. Repair of the existing substructure shall include but may not be limited to the areas shown.
The actual area to be repaired will be determined by the Engineer at the time of construction.



LEGEND

-  Epoxy Crack Injection
-  Structural Repair of Concrete
(Depth Equal to or less than 5 Inches)



BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	11.0
Epoxy Crack Injection	Foot	26

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR DETAILS - BENT 2 & BENT 3
STRUCTURE NO. 097-0032

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	26
CONTRACT NO. 78B37				
ILLINOIS FED. AID PROJECT				


SHEET 11 OF 12 SHEETS

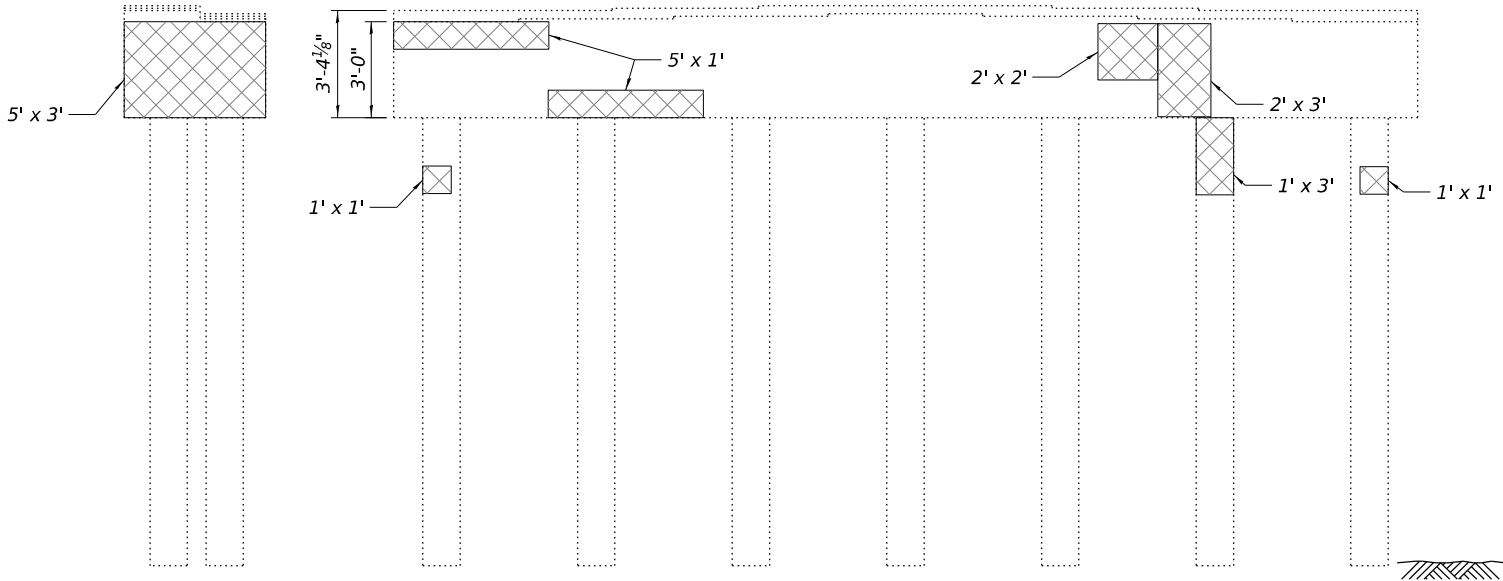
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	CHECKED - PRR	REVISED -
PLOT SCALE =	DRAWN - PDA	REVISED -
PLOT DATE =	CHECKED - MJT	REVISED -

NOTES

1. Repair of the existing substructure shall include but may not be limited to the areas shown.
The actual area to be repaired will be determined by the Engineer at the time of construction.

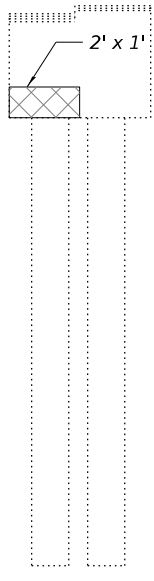
LEGEND

 Structural Repair of Concrete
(Depth Equal to or less than 5 Inches)

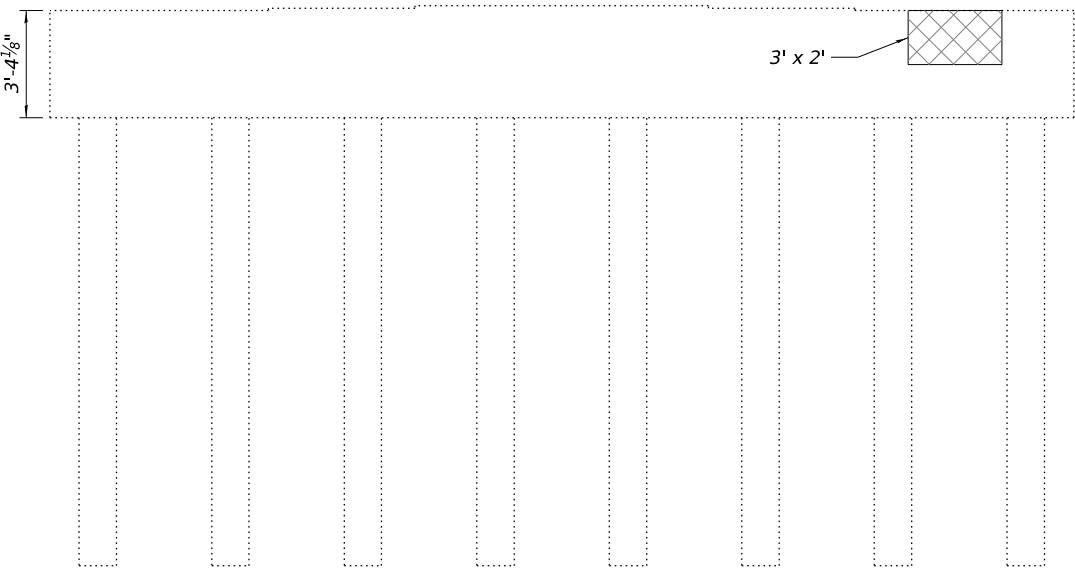


SOUTH FACE
BENT 4

EAST FACE
BENT 4



NORTH FACE
BENT 4



WEST FACE
BENT 4

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	48.0

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR DETAILS - BENT 4
STRUCTURE NO. 097-0032

SHEET 12 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
857	D9 BRIDGE OVERLAY 2026-3	WHITE	29	27
CONTRACT NO. 78B37				
		ILLINOIS	FED. AID PROJECT	

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KUHN & TRELLO

CONSULTING ENGINEERS

A Limited Liability Company

109 N. 7th Street, 2nd Floor

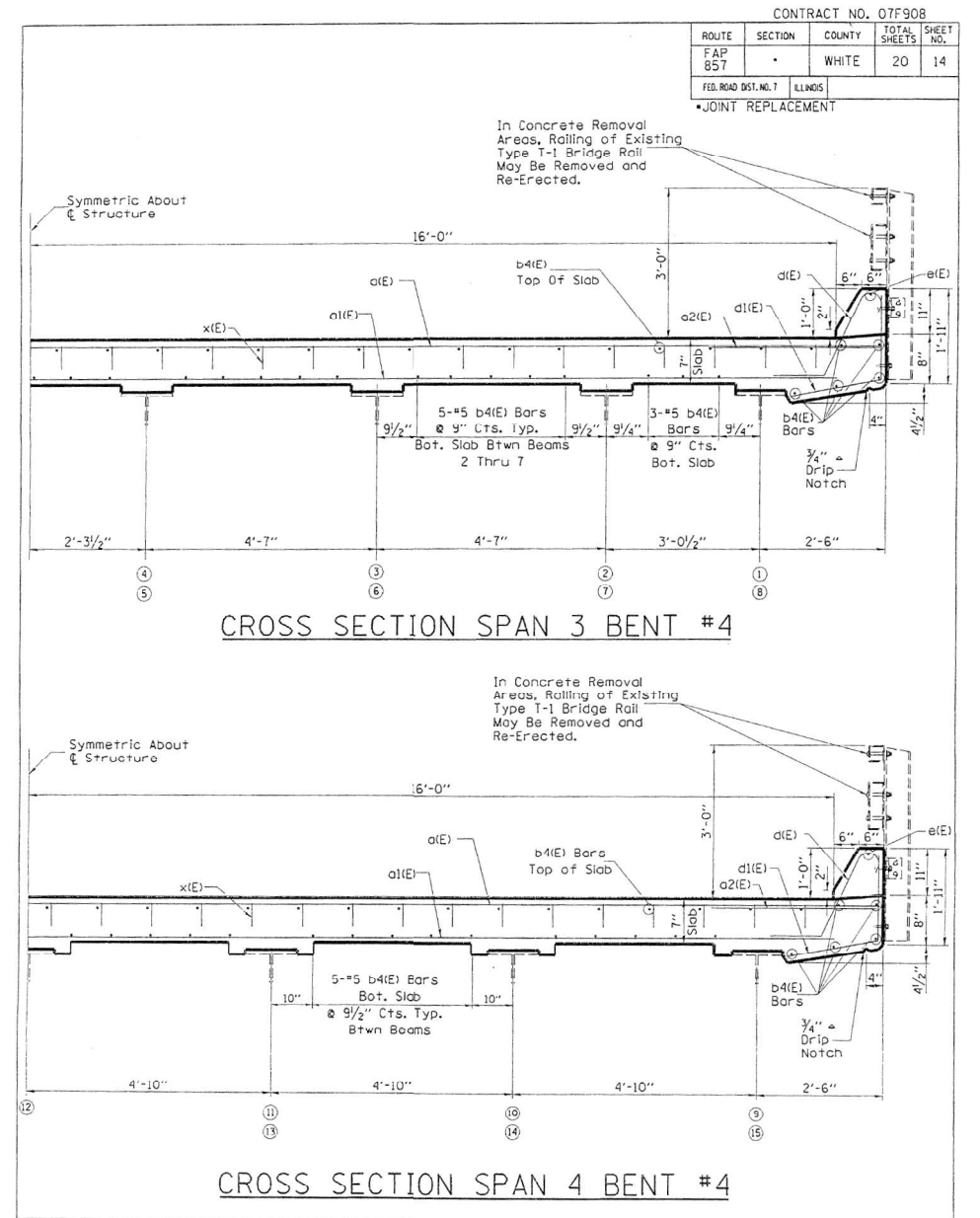
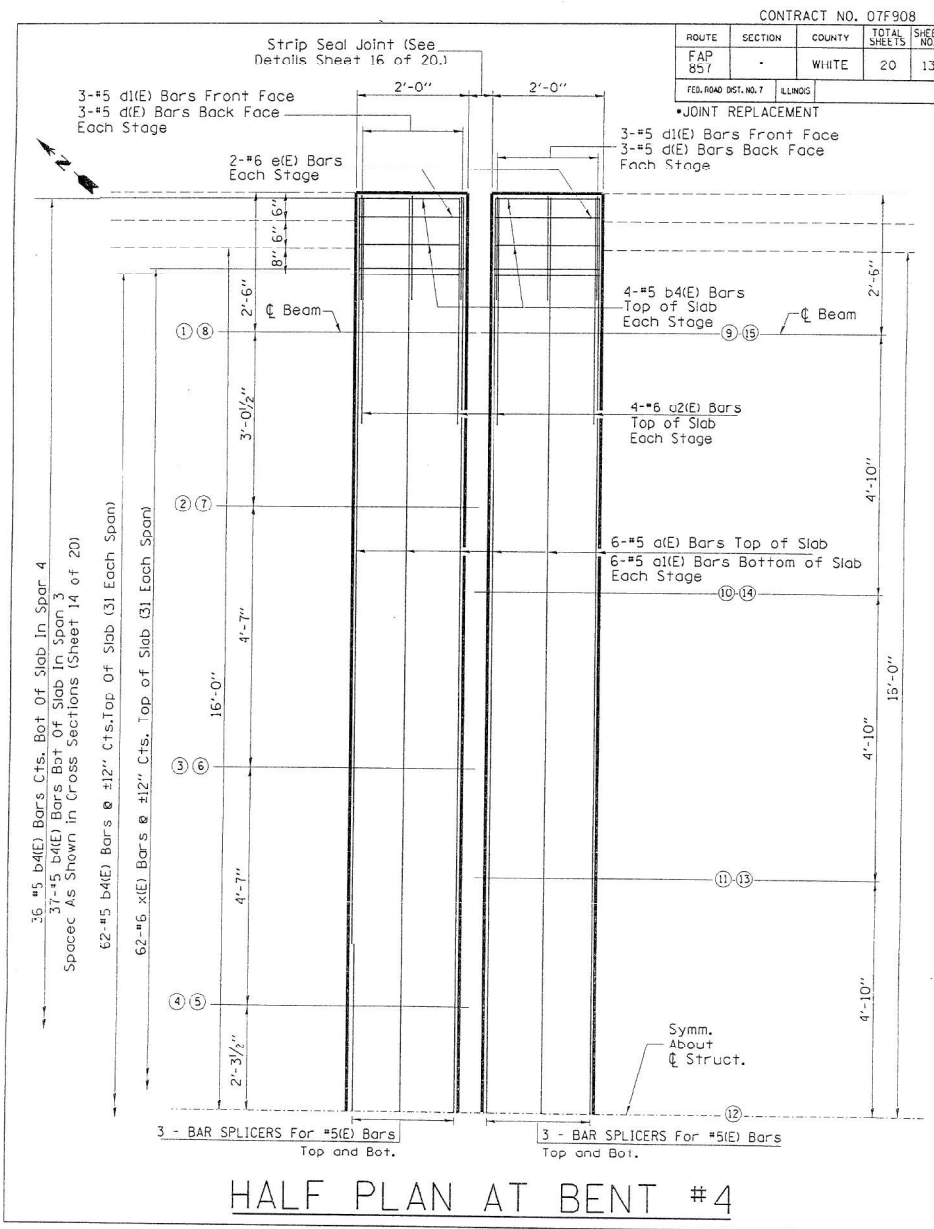
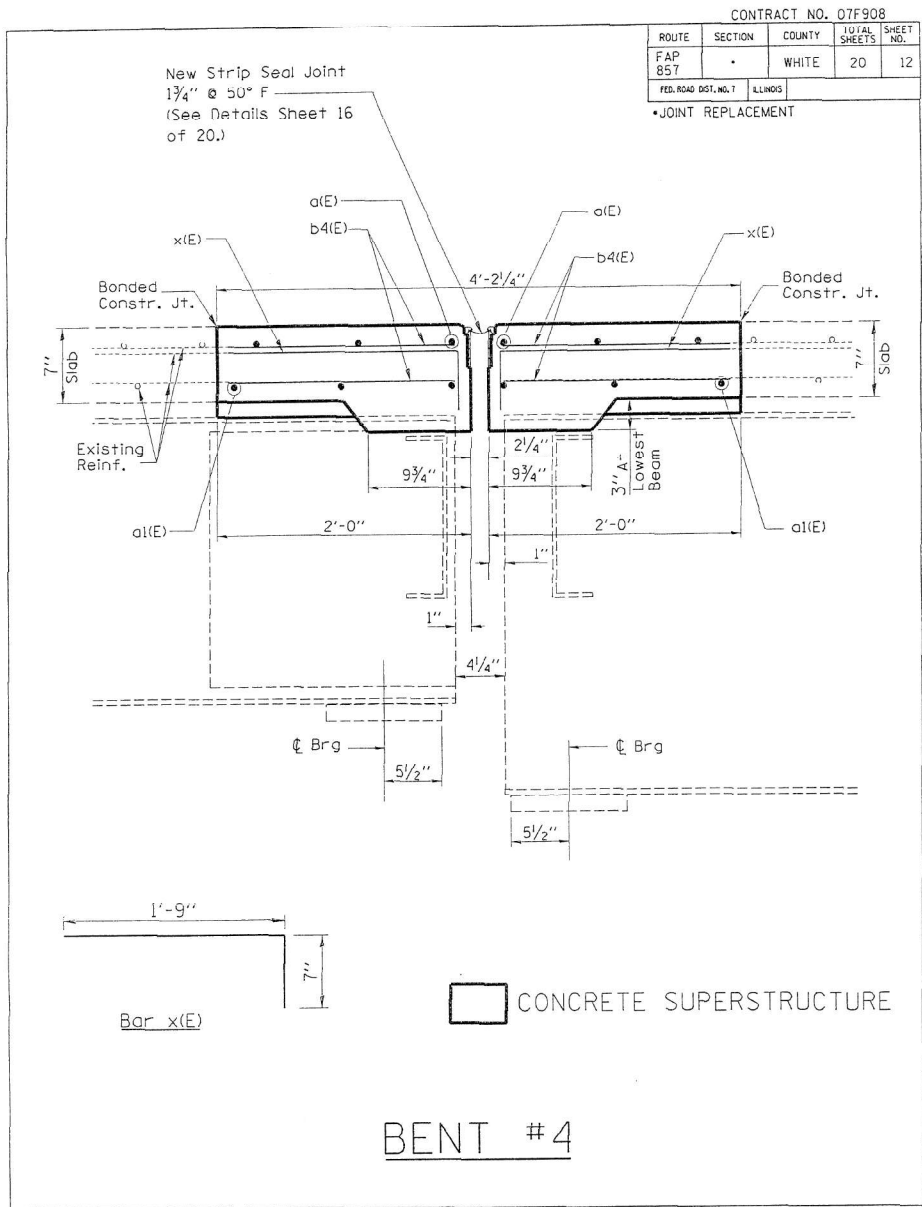
Springfield, IL 62793

Phone: 217-678-0044

Professional Design Firm No. 184-006556

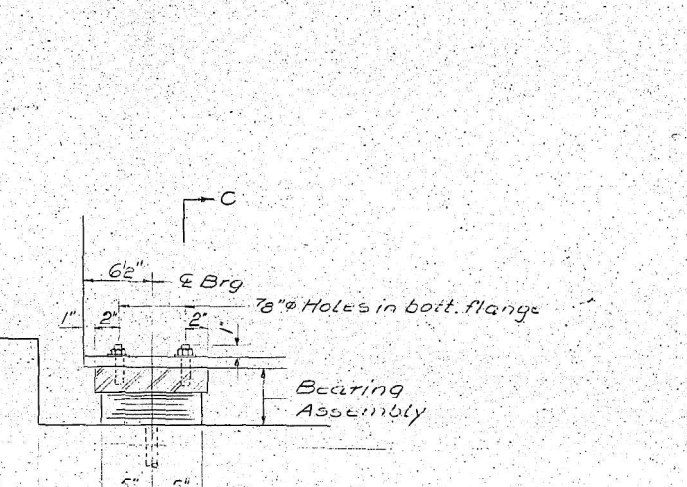
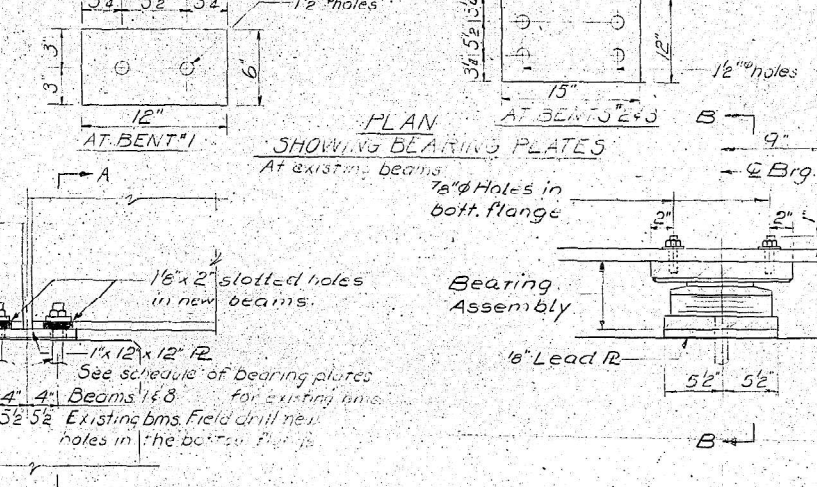
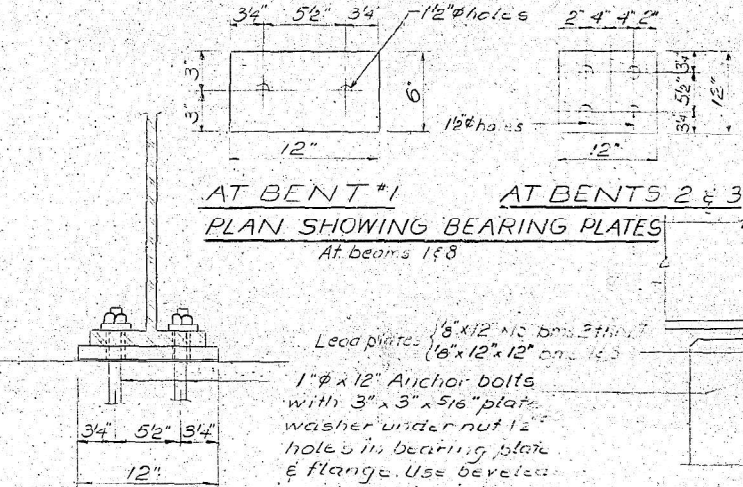
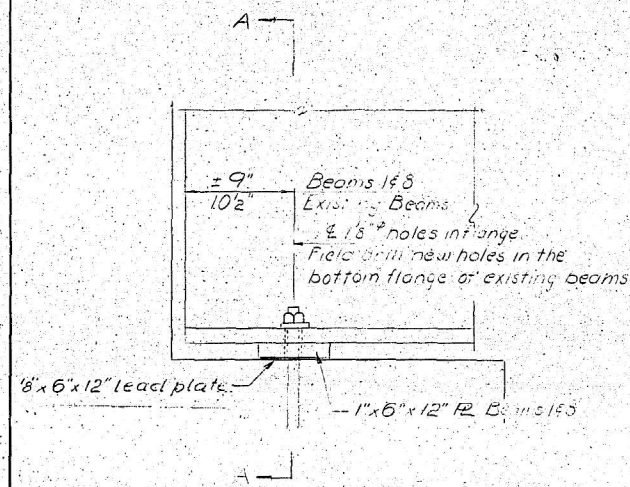
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PLOT SCALE =	DRAWN - PDA	REVISED -
PLOT DATE =	CHECKED - MJT	REVISED -

FOR INFORMATION ONLY

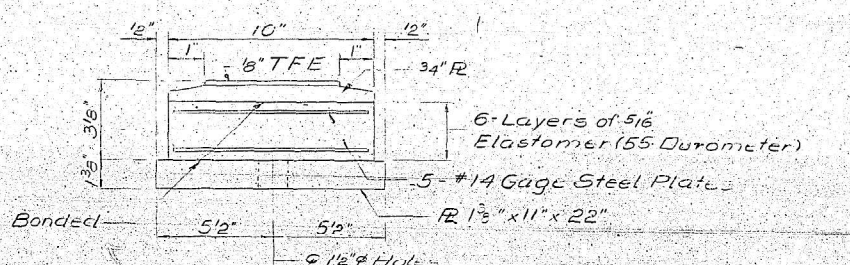
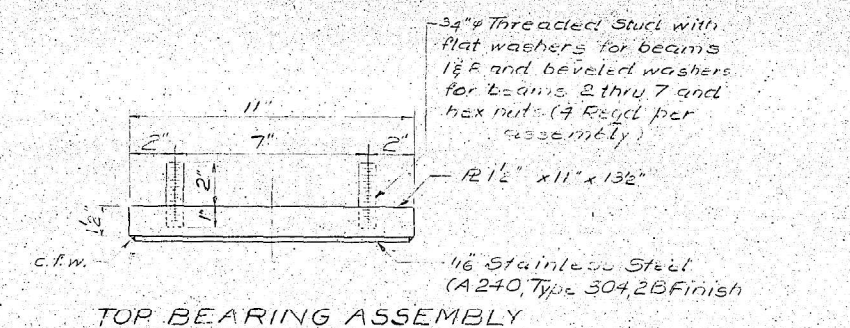


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R.A. 857	BR-2	WHITE	31	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		20 SHEETS



SECTION A-A
BENT #1
See schedule for location & size of new bearing plates under existing beams.

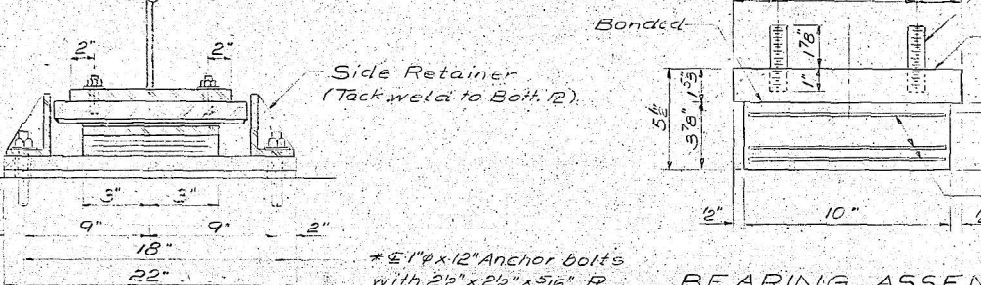


BOTTOM BEARING ASSEMBLY
(8-Required)

SCHEDULE OF BEARING PLATE REPLACEMENT UNDER EXIST. BEAMS

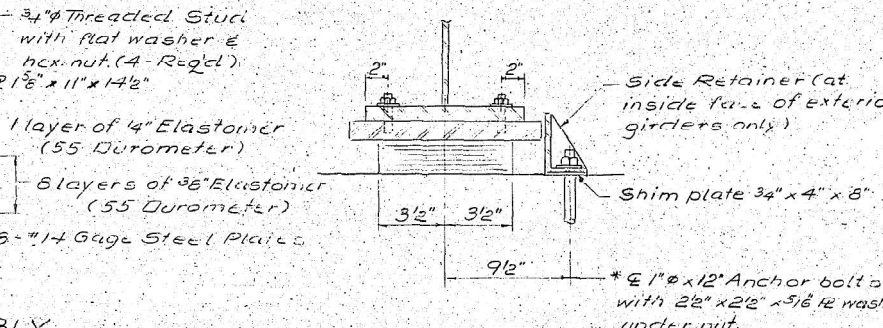
Location	Bm. 2	Bm. 3	Bm. 4	Bm. 5	Bm. 6	Bm. 7
Bent #1 (W. Side)			R 24 x 6 x 12			R 34 x 6 x 12
Bent #2				R 24 x 12 x 15		
Bent #3			R 24 x 12 x 15	R 24 x 12 x 15	R 1 3/4 x 12 x 15	
** Bent #4						

** See special provisions for Jack and replace existing bearings.



SECTION B-B
BEARING ASSEMBLY
(7-Required)
Note: Shim plates shall not be placed under Type I Bearing Assembly.

FOR INFORMATION ONLY



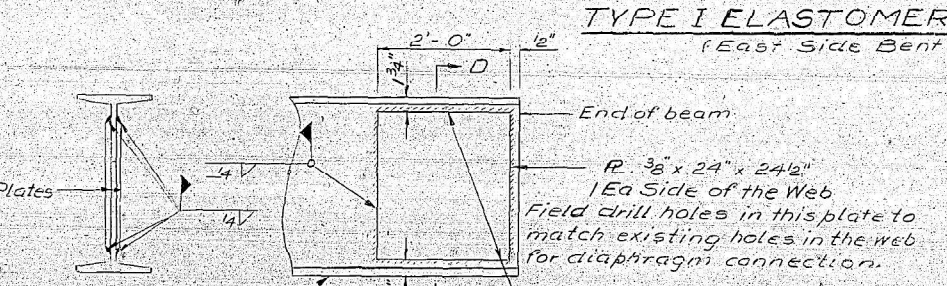
SECTION C-C
BEARINGS
F.A. RTE. 857-SECTION 101 BR-2
WHITE COUNTY
STA. 268 + 25.75

TYPE II TFE ELASTOMERIC EXP BRG.
(WEST SIDE BENT #1)
Note: See sheet #12 for TFE Details

SCHEDULE OF WEB REPAIR

Location	Beams to be repaired
Bent #1 (West Side)	Beams 2 and 7-span 1
Bent #2	Beams 2 and 7-span 1 & 2
Bent #3	No web repair anticipated
Bent #4	Beams 2, 3, 4, 5, 6 & 7-span 3

See special provisions for web repair.



SECTION D-D
WEB REPAIRS OF EXISTING BEAMS
(See special provisions)

DESIGNED	Steve A. Meyer
CHECKED	David Brown
DRAWN	V.H.
CHECKED	D.P.

EXAMINED	Jan 13 1981
PASSED	
APPROVED	