

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	1
		ILLINOIS	CONTRACT NO. 78917	

INDEX OF SHEETS

- 1 COVER
- 2 SIGNATURE SHEET
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- 17 WIDE LOAD SIGNING PLAN
- 18 - 19 PAVEMENT MARKING PLANS
- 20 - 49 STRUCTURE PLANS - S.N. 041-0083(EB) / 041-0084(WB)

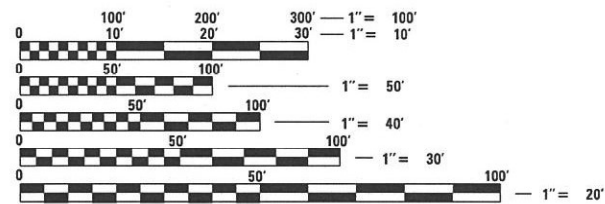
TRAFFIC DATA

F.A.I. 64 - ADT = 13,500
F.A.I. 64 - TRUCK ADT = 4,850
INTERCHANGE RAMP - ADT = 100

TOWNSHIP

PENDLETON

DESIGN DESIGNATION : N/A
COORDINATE SYSTEM : N/A
POSTED SPEED : 70 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: GRANT DETERDING, P.E.
PROJECT DESIGNER: C.M.T./C.D.I.

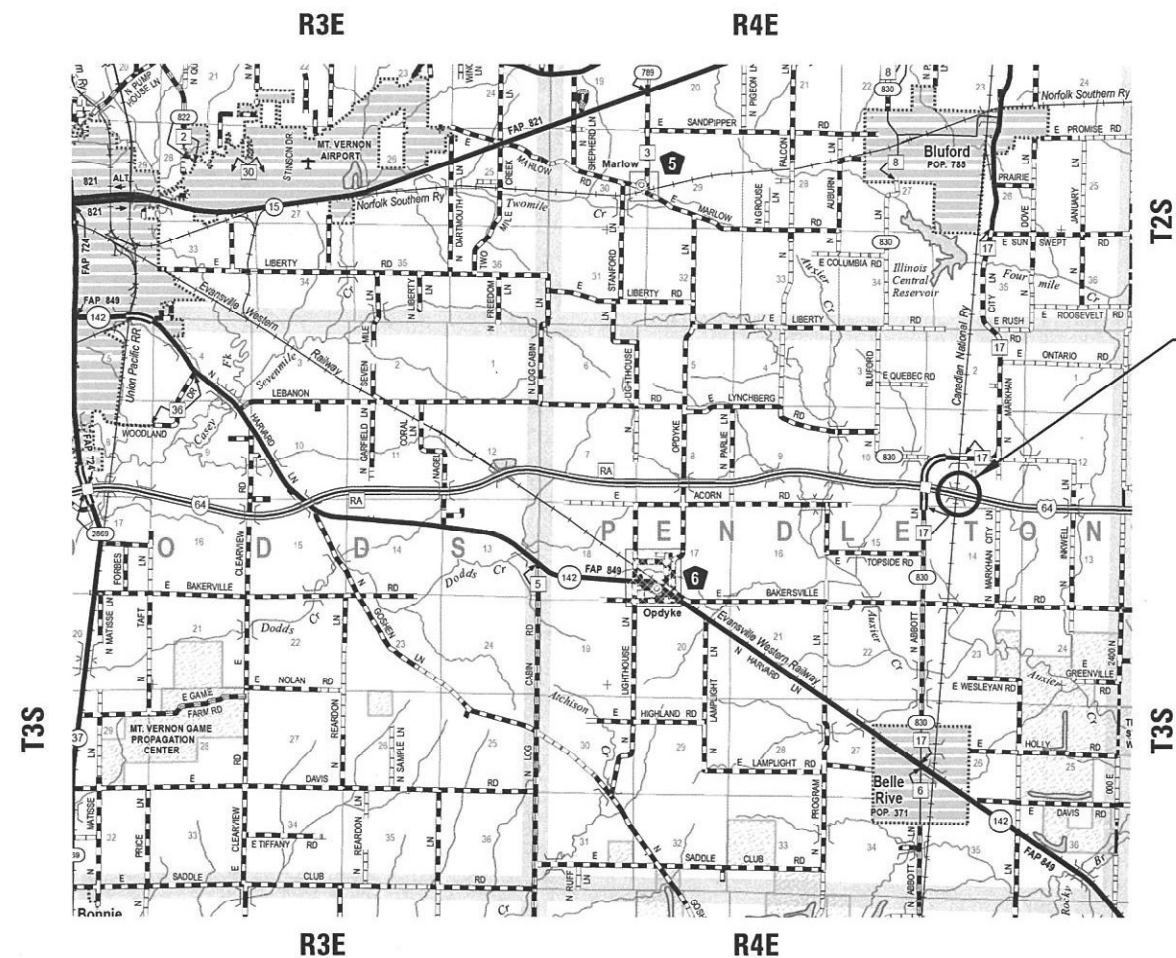
CONTRACT NO. 78917



PROPOSED
HIGHWAY PLANS

FAI ROUTE 64 (I-64)
SECTION D9 BRIDGE REPAIR 2022-5
PROJECT COVD-Y5MN (978)
BRIDGE REPAIR
JEFFERSON COUNTY

C-99-019-22



STRUCTURE
SN 041-0083 (EB)
SN 041-0084 (WB)
I-64 OVER CANADIAN NATIONAL RR
STA. 3221+68.08



SIGNATURE: *[Signature]*
DATE SIGNED: 3/17/2023
LICENSE EXPIRATION DATE: 11/30/2023



LOCATION OF SECTION INDICATED THUS: - [Black Box] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 23, 2023
Kirk H. Brown
REGION FIVE ENGINEER

May 12, 2023 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

MODEL: Sht-Signature (Sheet)
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Prepared By: Charles Stein
 DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy Ho
 DISTRICT LAND ACQUISITION ENGINEER

Examined By: Carrie Nelson
 DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Bob Coe
 DISTRICT OPERATIONS ENGINEER

Examined By: Daryl J. Jurek
 DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Daryl J. Jurek
 DISTRICT CONSTRUCTION ENGINEER

Examined By: Aam Hays
 DISTRICT MATERIALS ENGINEER

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	DRAWN -	REVISED -
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PLOT DATE = 3/8/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I. 64 (I-64)
 SIGNATURE SHEET**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	2
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
483001-06	PCC SHOULDER
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
420001-10	PAVEMENT JOINTS

GENERAL NOTES

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

ALL AGGREGATE 2.05 TONS/CU. YD.
- THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.
- AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED, THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- F.A.I. 64 CENTERLINE STATIONING PROVIDED IS FOR LONGITUDINAL REFERENCE ONLY AND IS NOT BASED ON ACTUAL FIELD SURVEY OR RECORD INVENTORY DATA. ALL OFFSETS AND RESPECTIVE SITE LAYOUT SHOULD BE TAKEN FROM PHYSICAL FEATURES IN THE FIELD AND AS PROVIDED BY THE ENGINEER.
- COMMITMENTS: NONE

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PLOT DATE = 3/28/2023	CHECKED -	REVISED -			CONTRACT NO. 78917					
	DATE -	REVISED -			SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.

CONSTRUCTION CODE		
F.A.I. 64 - JEFFERSON COUNTY		
FUNDING: 100% FEDERAL		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004	0013	0013
				RURAL	S.N. 041-0083	S.N. 041-0084
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	3,499	3,499		
44004250	PAVED SHOULDER REMOVAL	SQ YD	3,274	3,274		
44200050	WELDED WIRE REINFORCEMENT	SQ YD	3,274	3,274		
44213204	TIE BARS 3/4"	EACH	1,390	1,390		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	349	349		
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	3,274	3,274		
48301000	PROTECTIVE COAT	SQ YD	4,661	3,274	783	604
50102400	CONCRETE REMOVAL	CU YD	30.7		16.5	14.2
50157300	PROTECTIVE SHIELD	SQ YD	360		198	162
50300255	CONCRETE SUPERSTRUCTURE	CU YD	30.7		16.5	14.2
50300300	PROTECTIVE COAT	SQ YD	1,438		781	657
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1,870		1,010	860
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,040		1,100	940
50800515	BAR SPLICERS	EACH	38		19	19

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. 64 (I-64)
SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	4
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE		
F.A.I. 64 - JEFFERSON COUNTY		
FUNDING: 100% FEDERAL		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004	0013	0013
				RURAL	S.N. 041-0083	S.N. 041-0084
52000110	PREFORMED JOINT STRIP SEAL	FOOT	196		106	90
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	13		7	6
52100520	ANCHOR BOLTS, 1"	EACH	26		14	12
59000200	EPOXY CRACK INJECTION	FOOT	230		118	112
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10		
67100100	MOBILIZATION	L SUM	1	1		
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2	2		
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	14	14		
70107006	PAVEMENT MARKING BLACKOUT TAPE, 6"	FOOT	14,785	14,785		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	7,392.5	7,392.5		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	725	725		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	700	700		

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. 64 (I-64)
SUMMARY OF QUANTITIES**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	5
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE		
F.A.I. 64 - JEFFERSON COUNTY		
FUNDING: 100% FEDERAL		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	BRIDGE
				0004	0013	0013
				RURAL	S.N. 041-0083	S.N. 041-0084
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	80	80		
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	18	18		
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	40	40		
X0323491	SLOPE WALL CRACK SEALING	FOOT	206		128	78
X0325749	FIBER WRAP	SQ FT	242		101	141
X2503100	MOWING	UNIT	2.2	2.2		
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,003		602	401
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2	2		
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	81	81		
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	13		7	6
Z0001904	STRUCTURAL STEEL REMOVAL	L SUM	1			1
Z0006018	BRIDGE DECK LATEX CONCRETE OVERLAY, 3 INCHES	SQ YD	1,332		729	603

* SPECIALTY ITEM

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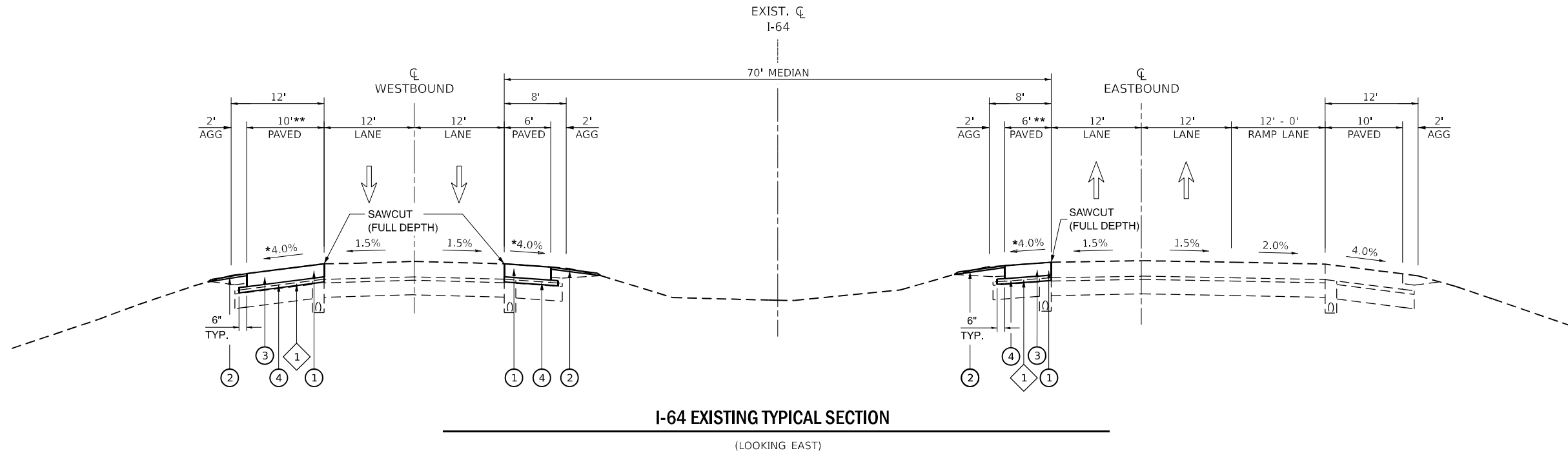
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. 64 (I-64)
SUMMARY OF QUANTITIES**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	6
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



SHOULDER REMOVAL/REPLACEMENT LIMITS

WB OUTSIDE - STA. 3214+18.08 TO 3219+42.85; STA. 3221+32.37 TO 3230+29.68
 WB INSIDE - STA. 3214+23.29 TO 3219+46.94; STA. 3221+37.02 TO 3230+18.30
 EB INSIDE - STA. 3212+46.63 TO 3219+55.59; STA. 3221+45.65 TO 3226+41.13

NOTES

* MATCH EXISTING CROSS SLOPES
 ** WIDTHS MAY VARY ADJACENT TO GUARDRAIL
 SEE MAINTENANCE OF TRAFFIC PLANS FOR LIMITS OF SHOULDER REMOVAL/REPLACEMENT

TYPICAL SECTION LEGEND

- ① PROPOSED PCC SHOULDER 10"
- ② PROPOSED AGGREGATE WEDGE SHOULDERS
- ③ PROPOSED PAVED SHOULDER REMOVAL
- ④ AGGREGATE BASE COURSE, TYPE B 4"
- ◇ 1 EXISTING HMA SHOULDERS

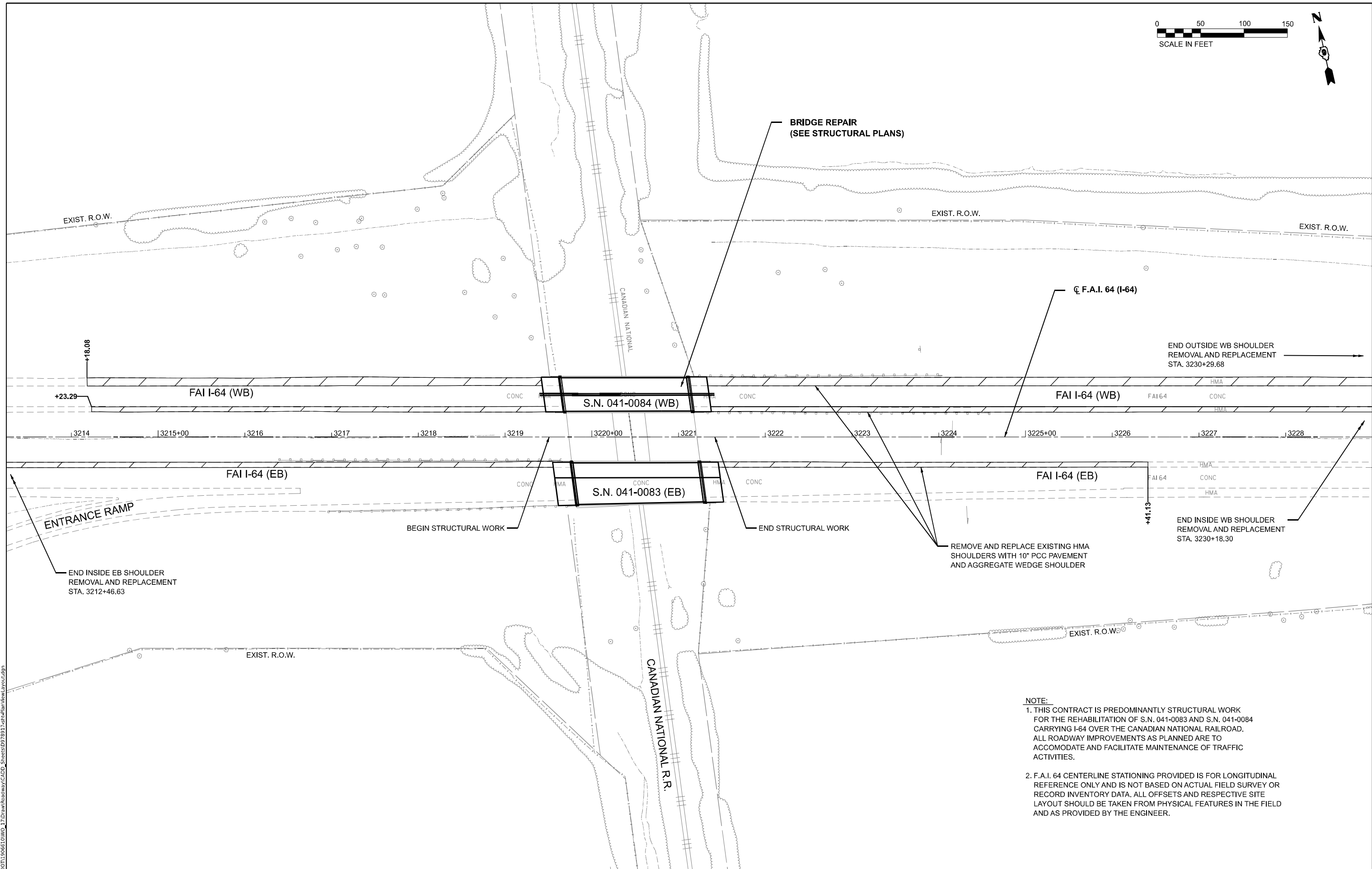
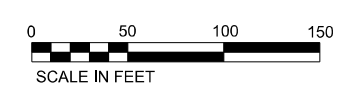
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.I. 64 (I-64) TYPICAL SECTION - EXISTING			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	8
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



NOTE:
 1. THIS CONTRACT IS PREDOMINANTLY STRUCTURAL WORK FOR THE REHABILITATION OF S.N. 041-0083 AND S.N. 041-0084 CARRYING I-64 OVER THE CANADIAN NATIONAL RAILROAD. ALL ROADWAY IMPROVEMENTS AS PLANNED ARE TO ACCOMMODATE AND FACILITATE MAINTENANCE OF TRAFFIC ACTIVITIES.
 2. F.A.I. 64 CENTERLINE STATIONING PROVIDED IS FOR LONGITUDINAL REFERENCE ONLY AND IS NOT BASED ON ACTUAL FIELD SURVEY OR RECORD INVENTORY DATA. ALL OFFSETS AND RESPECTIVE SITE LAYOUT SHOULD BE TAKEN FROM PHYSICAL FEATURES IN THE FIELD AND AS PROVIDED BY THE ENGINEER.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I I-64 (INTERSTATE 64)
ROADWAY PLAN**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	9
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

STAGE CONSTRUCTION GENERAL NOTES

ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ALONG I-64 AND ACCESS SHALL BE MAINTAINED TO INTERCHANGE RAMPS.

EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

SUGGESTED STAGE TWO CONSTRUCTION

CONSTRUCTION:
SET UP TRAFFIC CONTROL SIGNING, STRIPING, AND BARRICADES FOR MAINTENANCE OF TRAFFIC ACTIVITIES. CONSTRUCT BRIDGE REPAIRS FOR WB INSIDE LANE AREAS AND EASTBOUND OUTSIDE LANE AREAS. INSTALL GUARDRAIL REFLECTORS ALONG INSIDE SHOULDER FOR ALL MISSING/DAMAGED REFLECTORS.

TRAFFIC:
TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLAN DETAILS AND IDOT STANDARD 701400, 701402, 701411, 701426, 701428.

SUGGESTED PRE-STAGE CONSTRUCTION

CONSTRUCTION:
REMOVE AND REPLACE WESTBOUND I-64 INSIDE SHOULDER INCLUDING AGGREGATE WEDGE SHOULDERS. INSTALL GUARDRAIL REFLECTORS ALONG INSIDE SHOULDER FOR ALL MISSING/DAMAGED REFLECTORS.

TRAFFIC:
TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH IDOT STANDARD 701401 AND 701428.

SUGGESTED POST-STAGE CONSTRUCTION

CONSTRUCTION:
REMOVE ALL TRAFFIC CONTROL DEVICES AND INSTALL PERMANENT PAVEMENT MARKING. FINAL SITE RESTORATION AS NECESSARY.

TRAFFIC:
TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH IDOT STANDARD 701101, 701106, 701426, 701428.

SUGGESTED STAGE ONE CONSTRUCTION

CONSTRUCTION:
SET UP TRAFFIC CONTROL SIGNING, STRIPING, AND BARRICADES FOR MAINTENANCE OF TRAFFIC ACTIVITIES. CONSTRUCT BRIDGE REPAIRS FOR WESTBOUND OUTSIDE LANE AREAS AND EASTBOUND INSIDE LANE AREAS. REMOVE AND REPLACE WESTBOUND I-64 OUTSIDE SHOULDERS AND EASTBOUND I-64 INSIDE SHOULDERS AND AGGREGATE WEDGE SHOULDERS. INSTALL GUARDRAIL REFLECTORS ALONG INSIDE SHOULDER FOR ALL MISSING/DAMAGED REFLECTORS.

TRAFFIC:
TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLAN DETAILS AND IDOT STANDARD 701400, 701402, 701411, 701426, 701428.

TRAFFIC CONTROL NOTES

ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC., SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIER..

ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH IDOT STANDARDS 704001, 701901, 782006.

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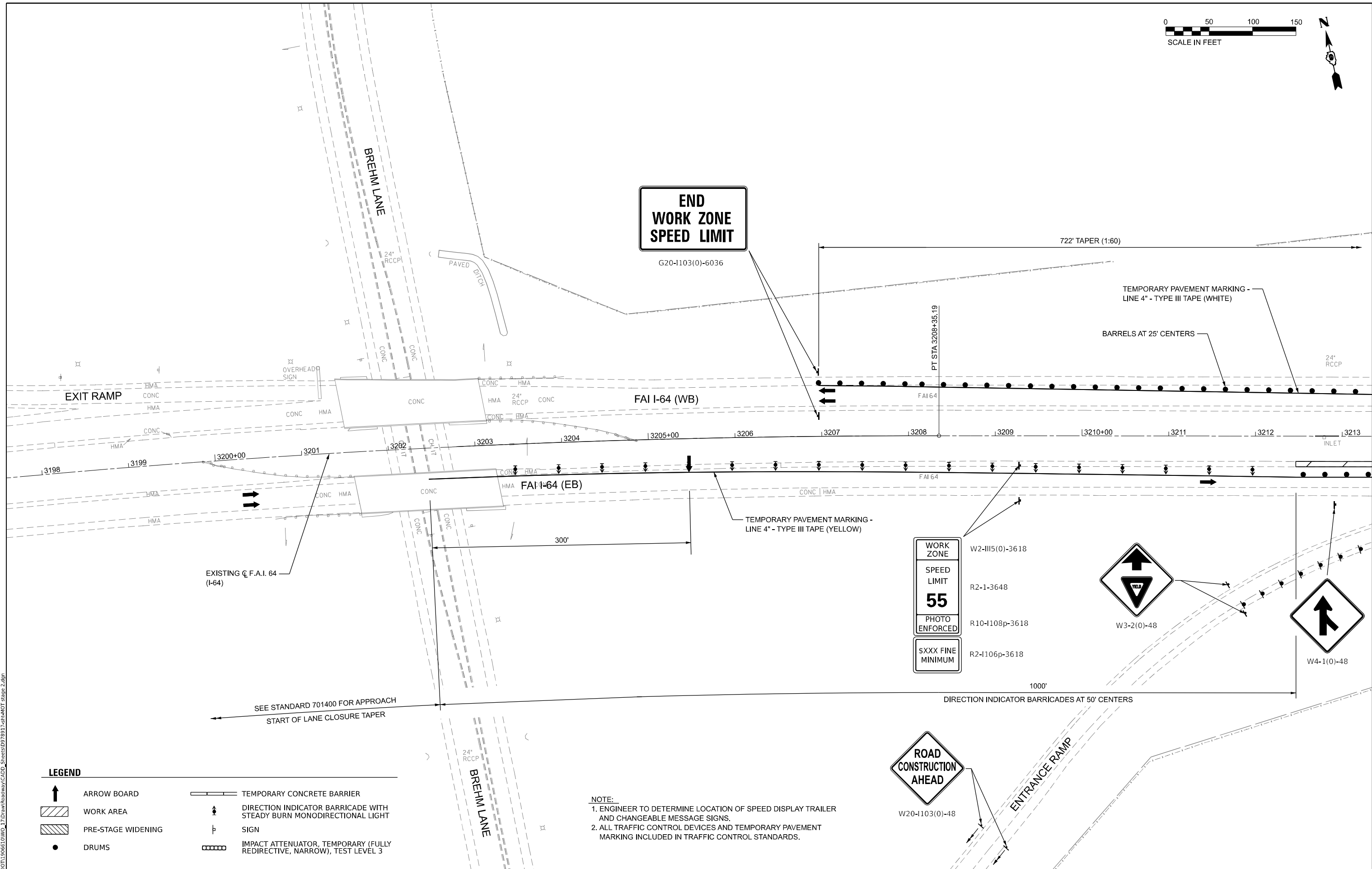
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.I. 64 (I-64)
MAINTENANCE OF TRAFFIC - NOTES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	10
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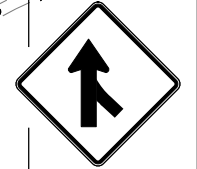
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








W4-1(0)-48



W20-I103(0)-48

LEGEND

-  ARROW BOARD
-  WORK AREA
-  PRE-STAGE WIDENING
-  DRUMS
-  TEMPORARY CONCRETE BARRIER
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  SIGN
-  IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

NOTE:
1. ENGINEER TO DETERMINE LOCATION OF SPEED DISPLAY TRAILER AND CHANGEABLE MESSAGE SIGNS.
2. ALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKING INCLUDED IN TRAFFIC CONTROL STANDARDS.

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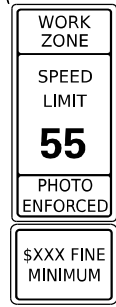
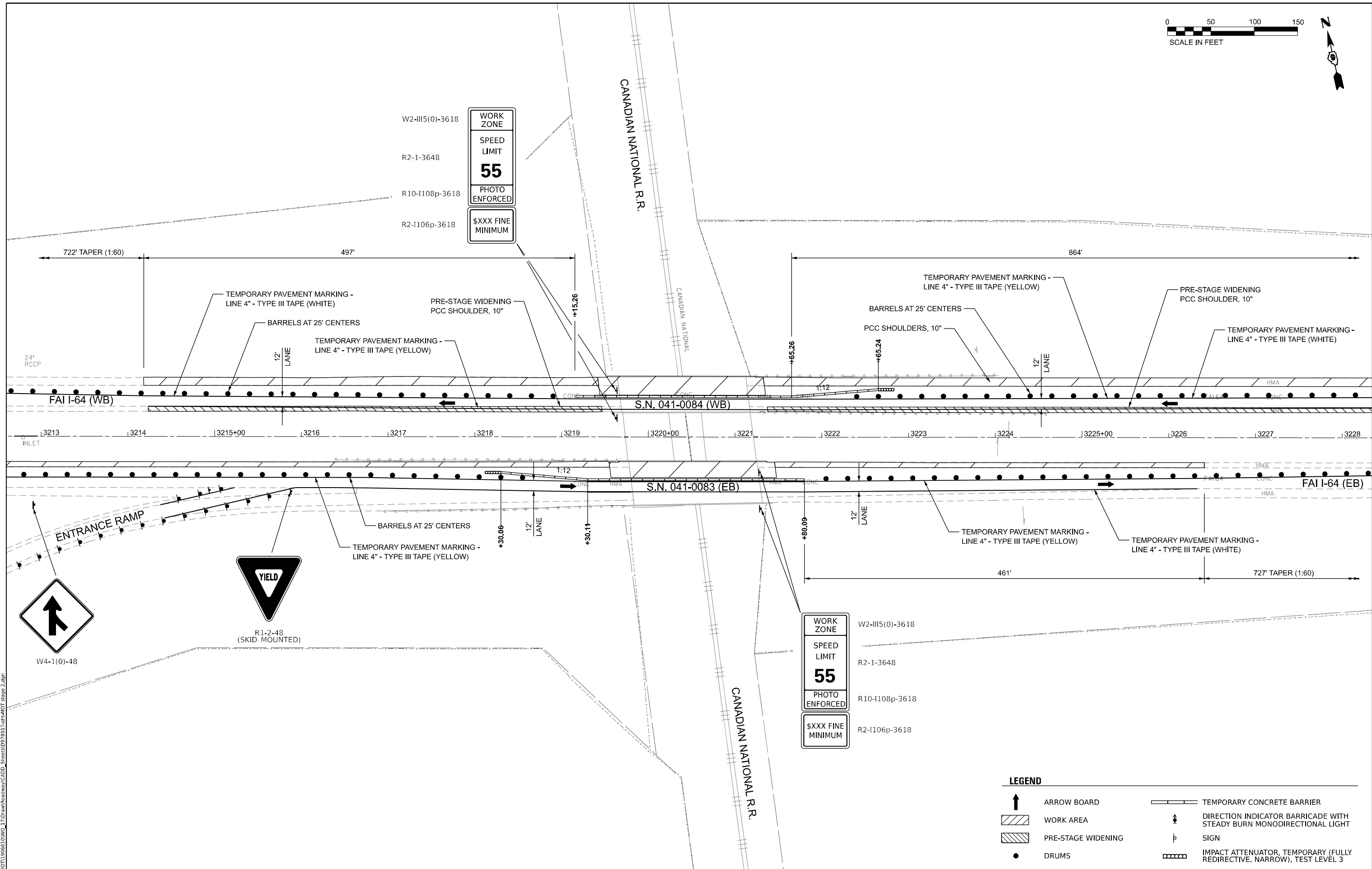
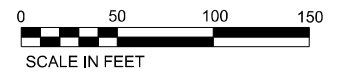
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. 64 (I-64)
MAINTENANCE OF TRAFFIC - STAGE I**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	11
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



LEGEND

- ARROW BOARD
- WORK AREA
- PRE-STAGE WIDENING
- DRUMS
- TEMPORARY CONCRETE BARRIER
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- SIGN
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

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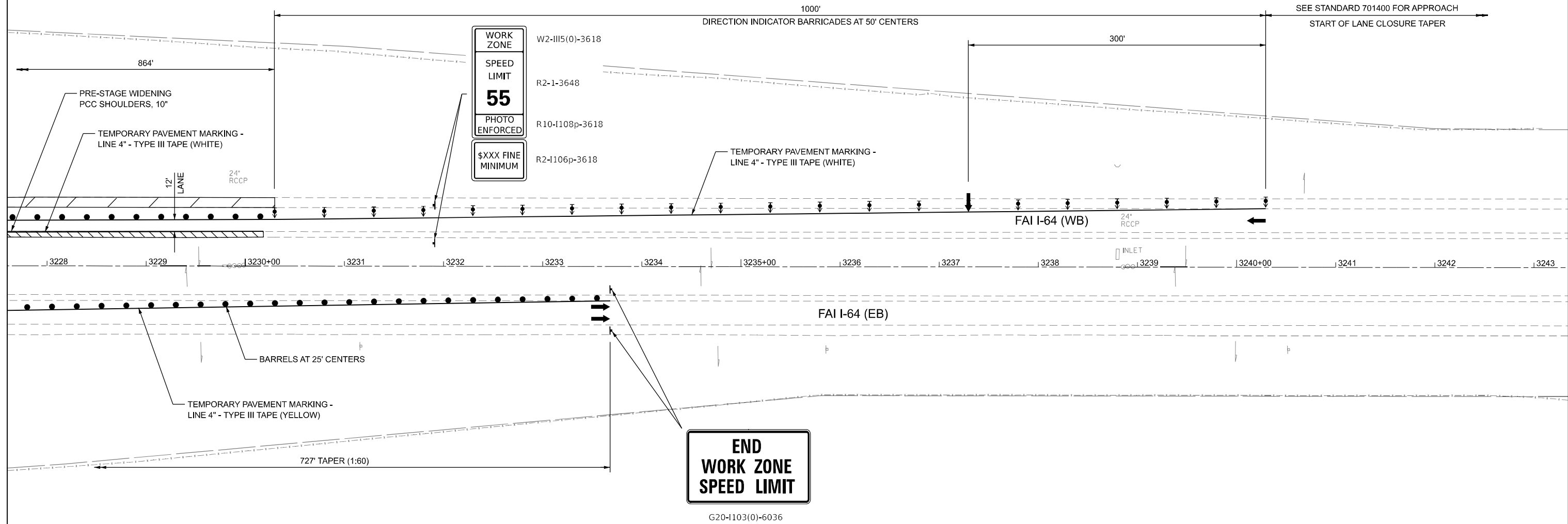
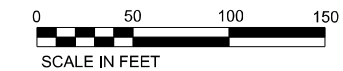
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PLOT DATE = 3/28/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 64 (I-64)
 MAINTENANCE OF TRAFFIC - STAGE I

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	12
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



MODEL: MOT-6175 (Sheet)
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LEGEND

- ARROW BOARD
- WORK AREA
- PRE-STAGE WIDENING
- DRUMS
- TEMPORARY CONCRETE BARRIER
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- SIGN
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

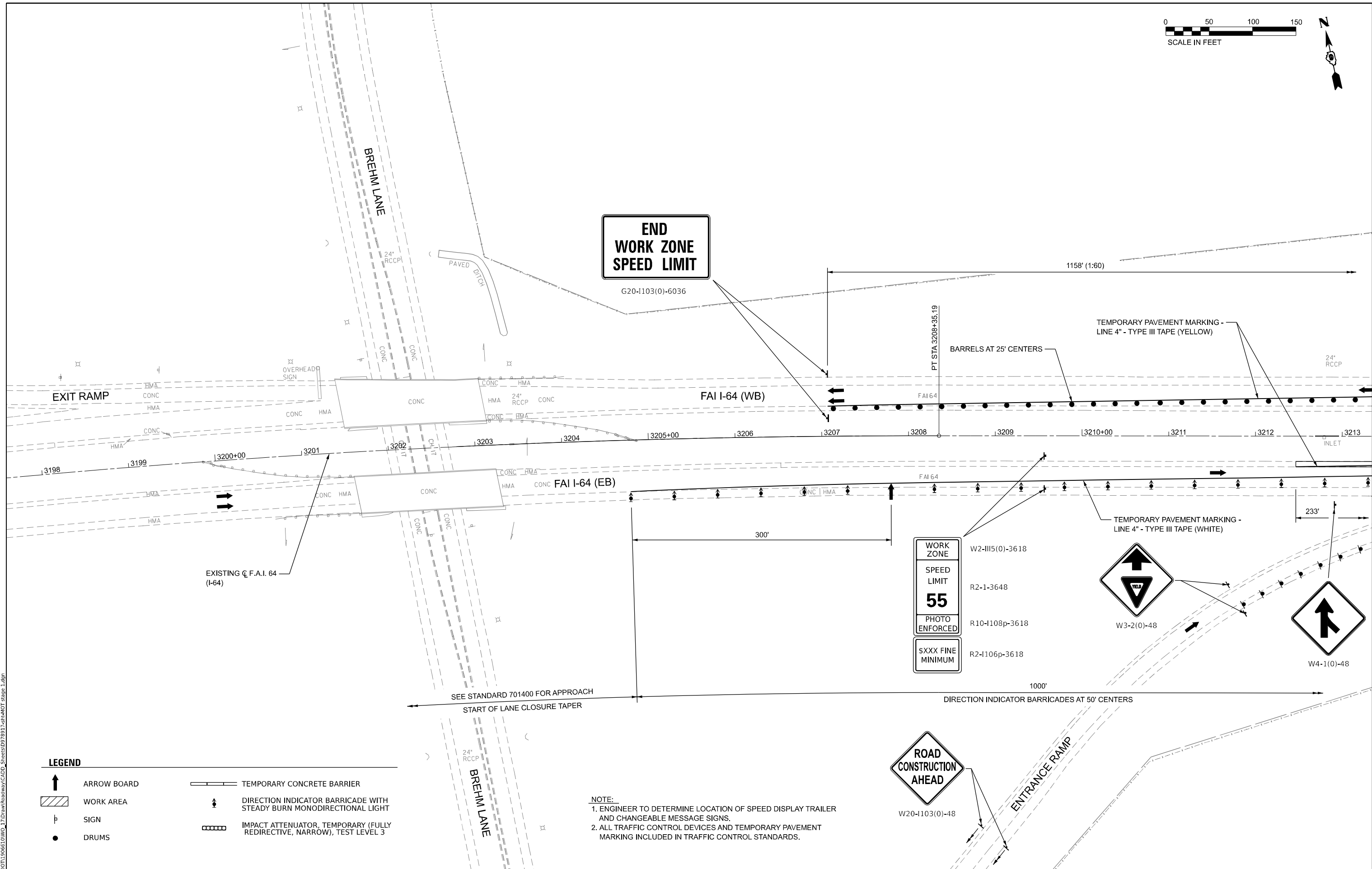
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. 64 (I-64)
MAINTENANCE OF TRAFFIC - STAGE I**

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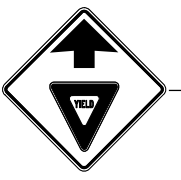
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CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				










**END
WORK ZONE
SPEED LIMIT**

G20-1103(0)-6036

WORK ZONE
W2-III5(0)-3618
SPEED LIMIT
R2-1-3648
55
PHOTO ENFORCED
R10-1108p-3618
SXXX FINE MINIMUM
R2-1106p-3618



LEGEND

-  ARROW BOARD
-  WORK AREA
-  SIGN
-  DRUMS
-  TEMPORARY CONCRETE BARRIER
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

NOTE:
1. ENGINEER TO DETERMINE LOCATION OF SPEED DISPLAY TRAILER AND CHANGEABLE MESSAGE SIGNS.
2. ALL TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKING INCLUDED IN TRAFFIC CONTROL STANDARDS.

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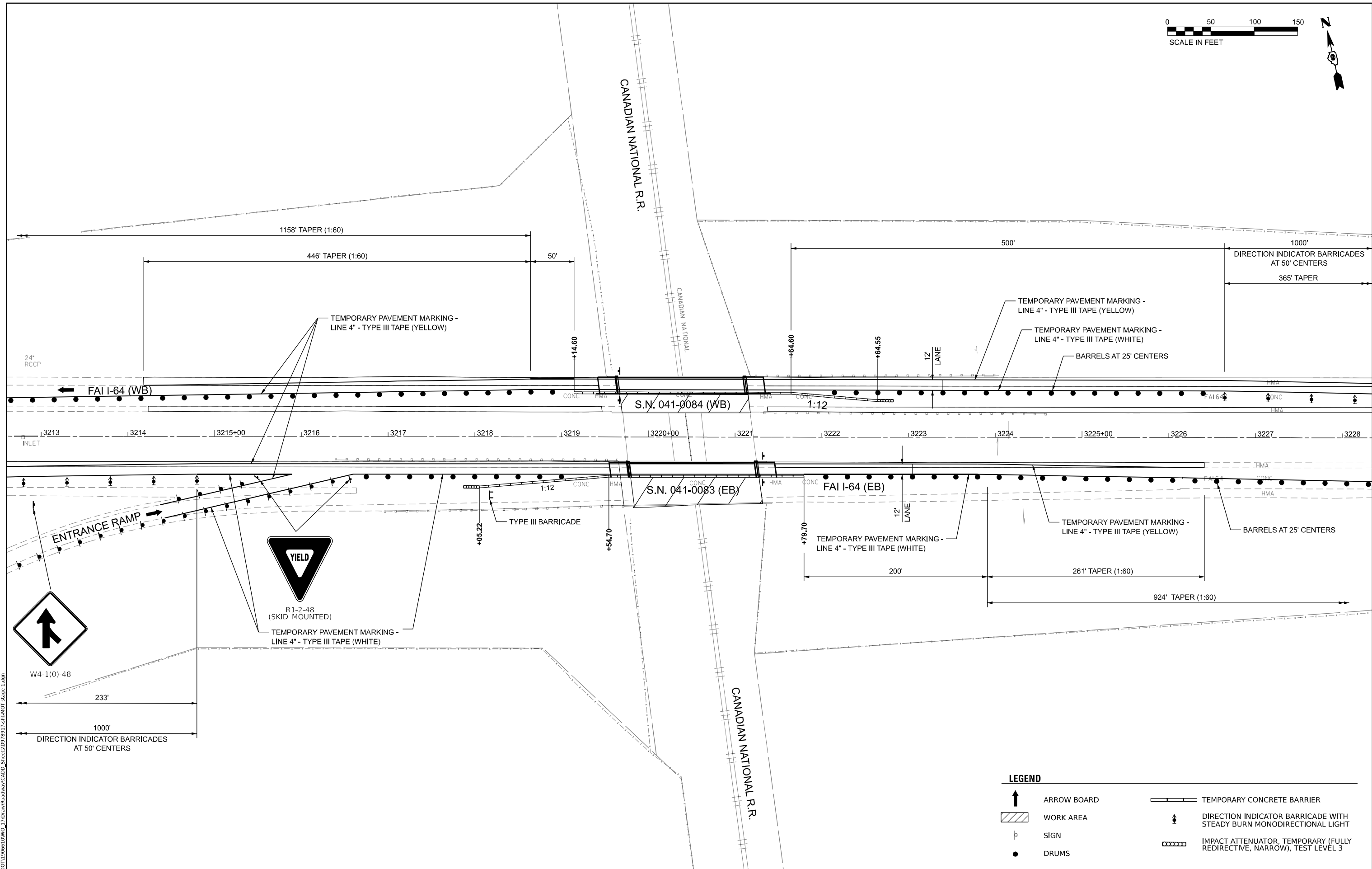
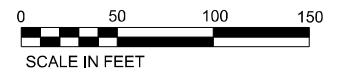
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. 64 (I-64)
MAINTENANCE OF TRAFFIC - STAGE II**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	14
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DRUMS
- TEMPORARY CONCRETE BARRIER
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

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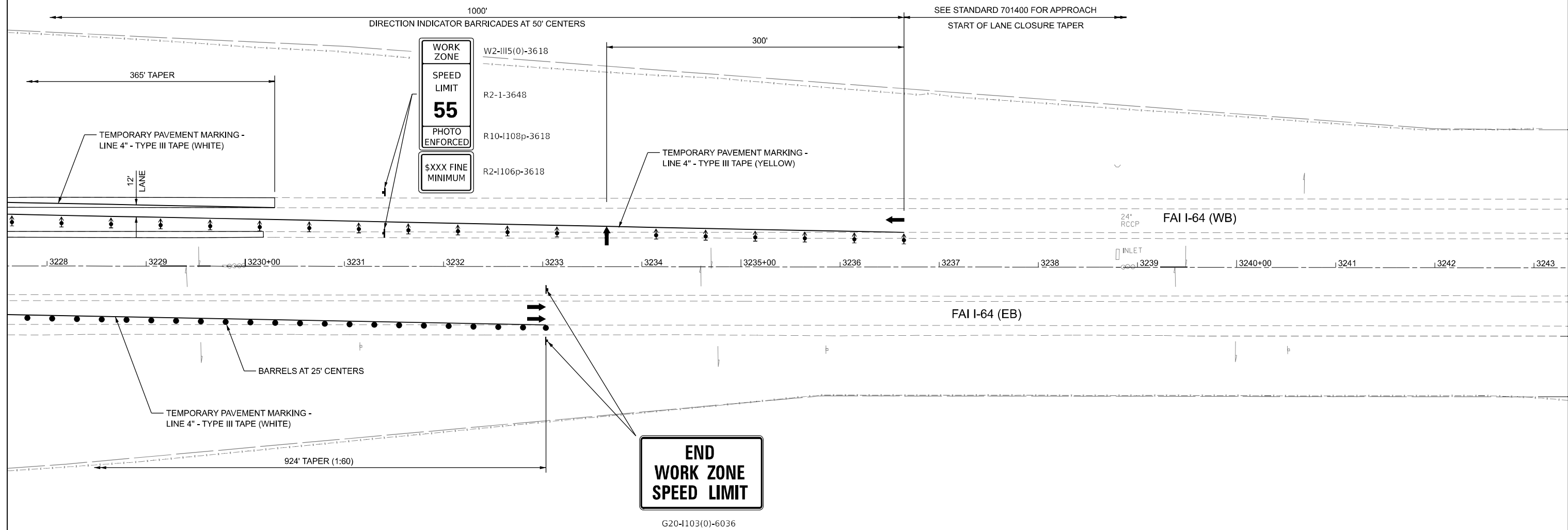
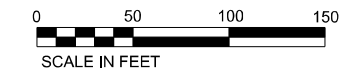
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. 64 (I-64)
MAINTENANCE OF TRAFFIC - STAGE II**

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	15
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



**END
WORK ZONE
SPEED LIMIT**

G20-1103(0)-6036

LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DRUMS
- TEMPORARY CONCRETE BARRIER
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

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	DATE -	REVISED -

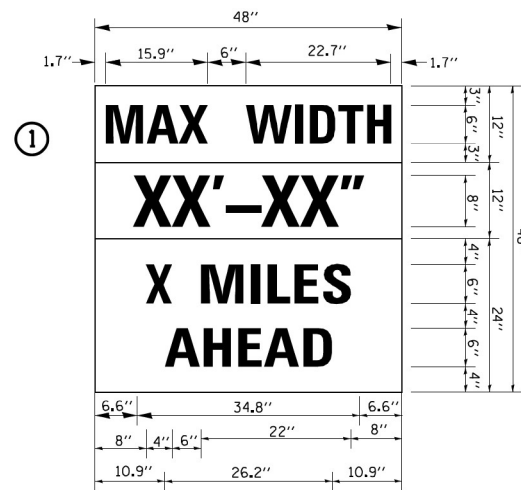
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.I. 64 (I-64)
MAINTENANCE OF TRAFFIC - STAGE II

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

SIGN LEGEND

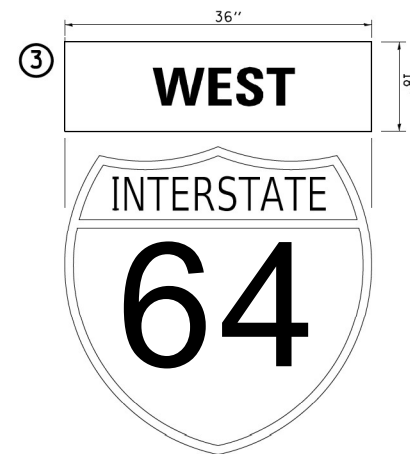


W12-1103

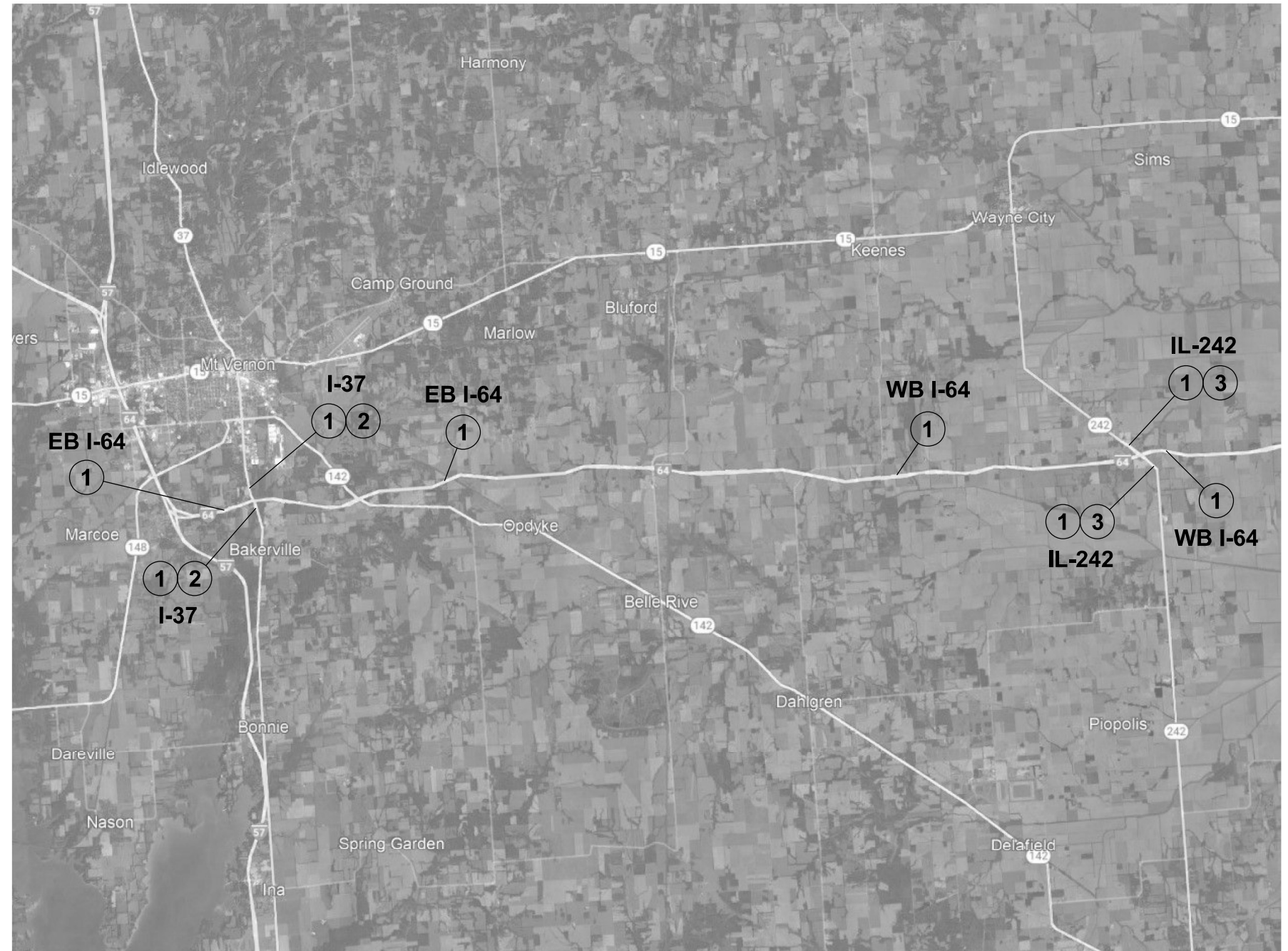
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 NO BORDER, BLACK ON ORANGE; "XX'-XX'" D;
 NO BORDER, BLACK ON WHITE; "X MILES" D; "AHEAD" D



M3-2 & M1-1



M3-4 & M1-1



WIDE LOAD SIGNING PLAN

DETOUR NOTES:

1. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATIONS AS DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE POST MOUNTED.

THE ABOVE NOTED WORK, INCLUDED SIGNS, POSTS, HARDWARE AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL) AND NO OTHER COMPENSATION WILL BE ALLOWED.

FOR WORK ON ALL STRUCTURES, THE WIDTH SHOWN ON THE W12-1103 SIGN SHALL BE XX'-X" OR DIRECTED BY THE ENGINEER, THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.

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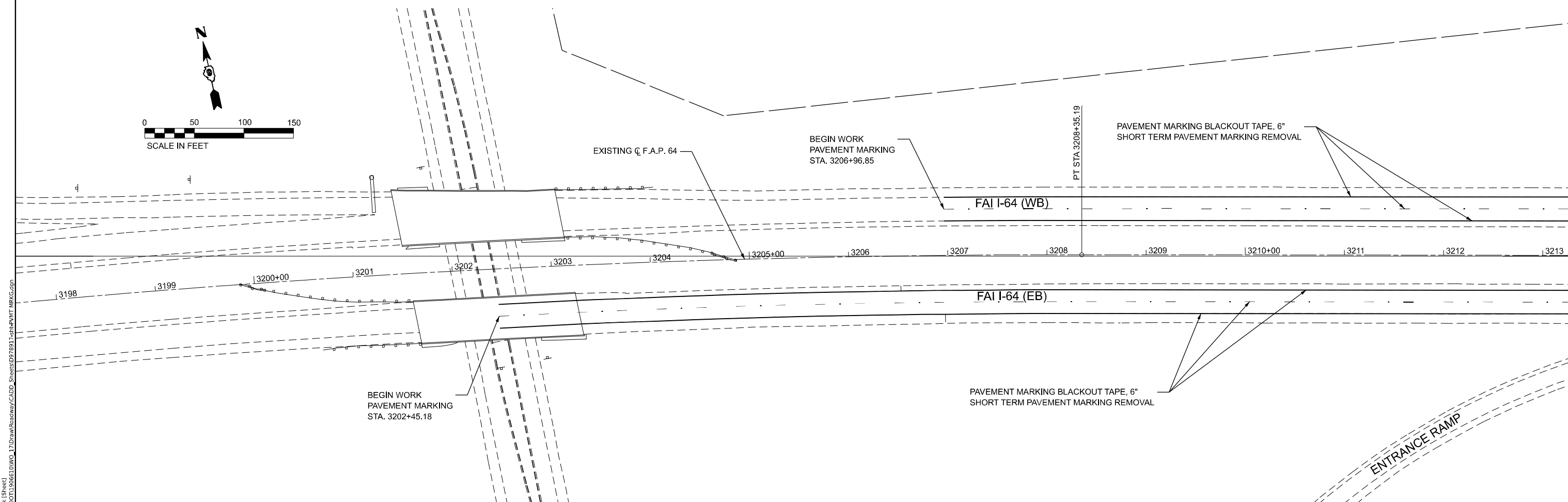
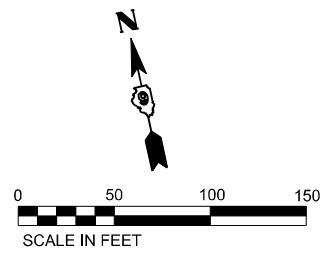
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**F.A.I I-64 (INTERSTATE 64)
 WIDE LOAD SIGNING PLAN**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	17
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



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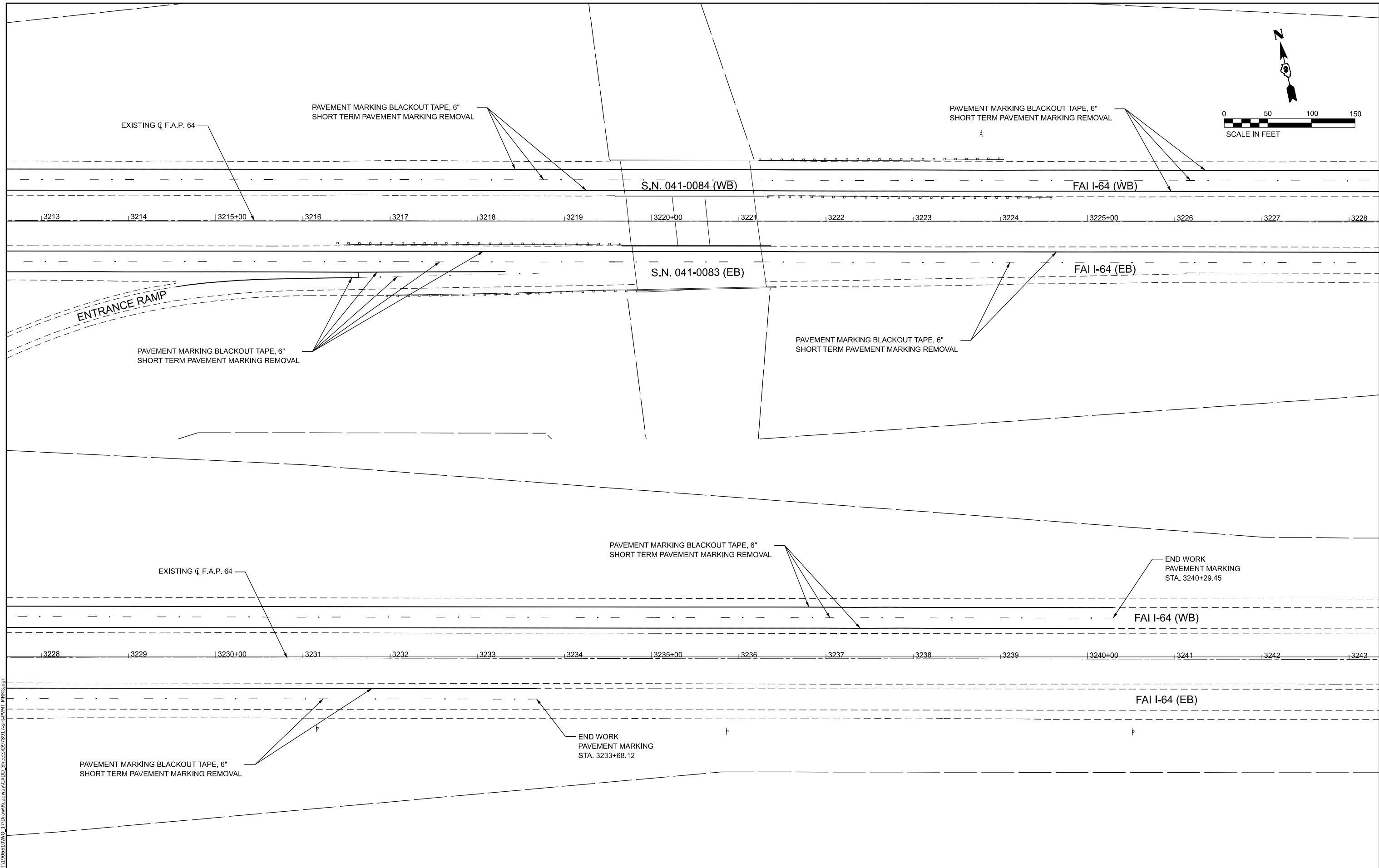
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DRAWN -	REVISED -	
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PLOT DATE = 3/28/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 64 (I-64)
PAVEMENT MARKING PLANS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	18
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 3/28/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. 64 (I-64)
PAVEMENT MARKING PLANS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2022-5	JEFFERSON	49	19
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

Structure 041-0083 and 041-0084 were originally constructed under FAI 64, Section 41-9VB-2; Contract 28365. The structure is a 3-span continuous steel beam structure with open stub abutments on concrete piles and multi column reinforced concrete piers on spread footings supported by H-piles.

In 1978, a membrane water proofing system was installed, Contract No. 29897. In 1992, deck slab repairs were performed with a 2" microsilica overlay installed, Contract No. 94285.

SEQUENCE OF WORK

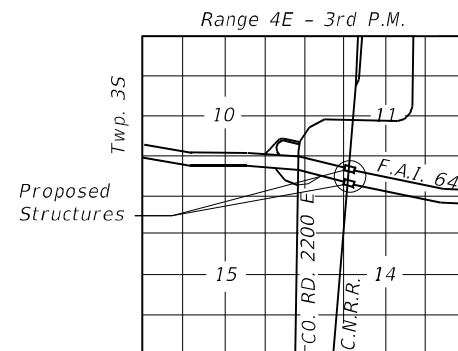
1. Perform required pre-stage work including necessary shoulder work. See Roadway Plans.
2. Bridge deck scarification.
3. Perform deck repairs as directed by the engineer.
4. Install a new concrete Latex Overlay, 3", both bridges.
5. Remove bearings at the east abutments and replace with expansion bearings.
6. Install new strip seal joint at the east abutments.
7. Replace the west abutment joints with a new strip seal joint.
8. Trim steel beam that is impacting the abutment backwall.
9. Perform concrete repairs to pier columns, abutments, and slopewalls.
10. Install drain extensions.

Note:
See Sheet 2 of 30 for Bill of Material and General Notes and Index of Sheets.

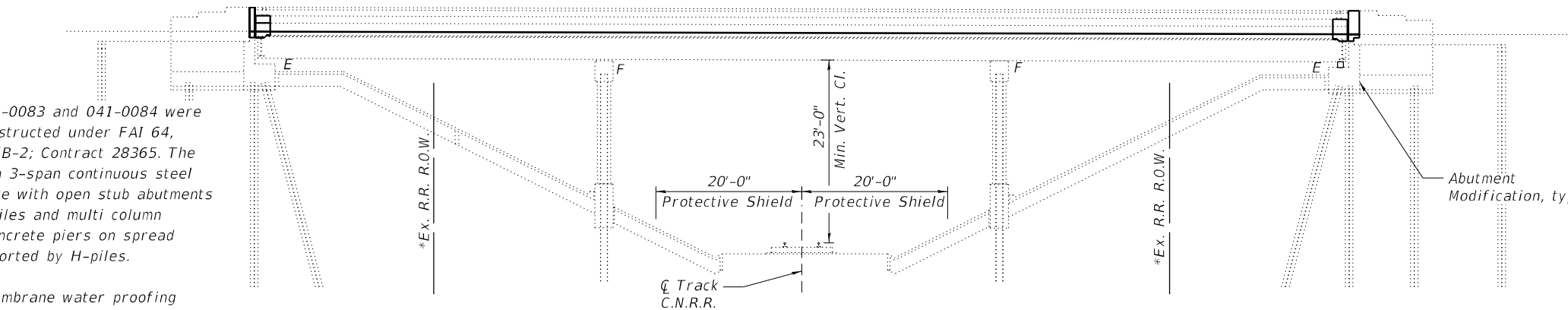
**DESIGN STRESSES
FIELD UNITS**

New Construction
f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)

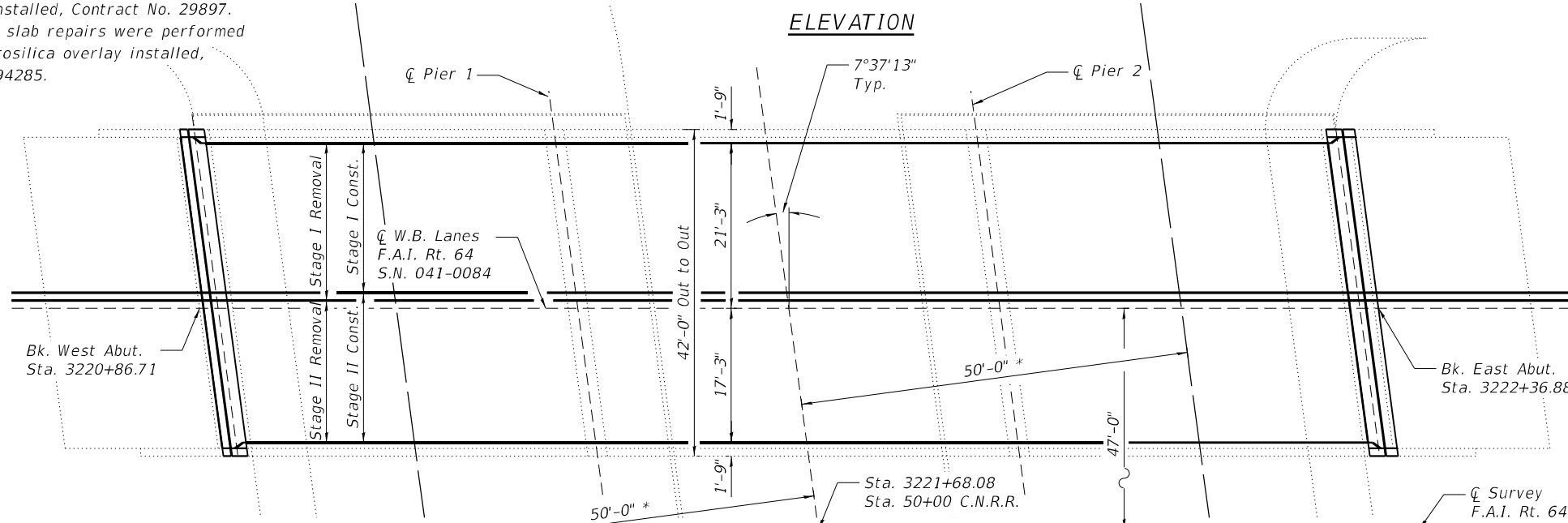
Original Construction
f'c = 1,200 psi
fs = 20,000 psi (Reinforcement)
fs = 20,000 psi (Structural Steel)



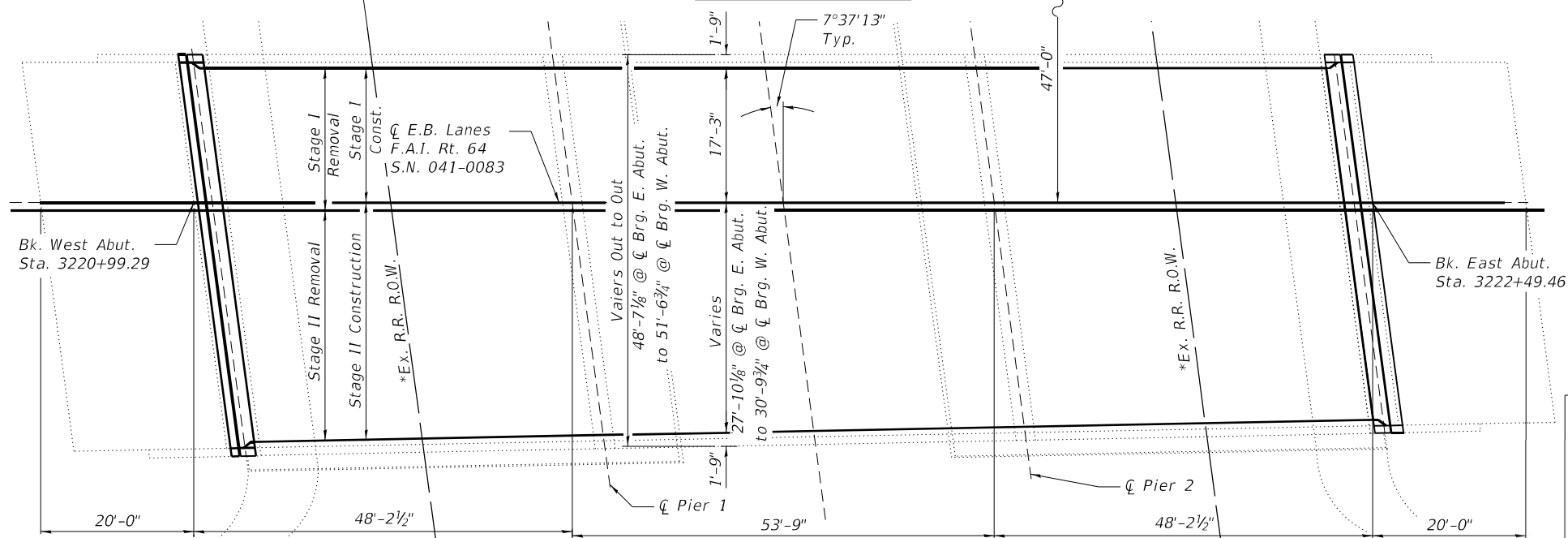
LOCATION SKETCH



ELEVATION



PLAN (WB BRIDGE)



PLAN (EB BRIDGE)

* Existing railroad right-of-way (ROW) based upon County GIS data and provided for information only. Existing ROW shown on the plans has not been surveyed.

Plans prepared by
Civil Design, Inc.



Date: 05/05/2023
Expiration: 11/30/2024

**GENERAL PLAN AND ELEVATION
I-64 OVER CANADIAN NATIONAL R.R.
F.A.I. 64 SECT. BRIDGE REPAIR 2022-5
JEFFERSON COUNTY
STATION 3221+68.08
SN 041-0083 (EB) & 041-0084 (WB)**

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 041-0083 (EB) & 041-0084(WB)

SHEET 1 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	20
CONTRACT NO. 78917				

ILLINOIS FED. AID PROJECT

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier
5. Wearing Surface Details
6. Floor Drain & Reflected Deck Patching Details
7. Abutment Repair Plan
8. Wing Wall Repairs
9. Abutment Bearing Details
10. West Abutment Concrete Removal
11. West Abutment Concrete Superstructure
12. East Abutment Concrete Removal
13. East Abutment Concrete Superstructure
14. Preformed Joint Strip Seal
15. Substructure Repair, Pier 1 & Pier 2 SN 041-0083 (EB)
16. Substructure Repair, Pier 1 & Pier 2 SN 041-0084 (WB)
17. Bar Splicer Assembly & Mechanical Splicer Details
18. - 30. Existing Plans

TOTAL BILL OF MATERIAL

Item	Unit	041-0083	041-0084	Total
Concrete Removal	Cu. Yd.	16.5	14.2	30.7
Protective Shield	Sq. Yd.	198	162	360
Concrete Superstructure	Cu. Yd.	16.5	14.2	30.7
* Protective Coat	Sq. Yd.	783	604	1,387
Furnishing and Erecting Structural Steel	Pound	1,010	860	1,870
Reinforcement Bars, Epoxy Coated	Pound	1,100	940	2,040
Bar Splicers	Each	19	19	38
Preformed Joint Strip Seal	Foot	104	87	191
Elastomeric Bearing Assembly, Type I	Each	7	6	13
Anchor Bolts, 1"	Each	14	12	26
Epoxy Crack Injection	Foot	118	112	230
Slope Wall Crack Sealing	Foot	128	78	206
Acrylic Coating	Sq. Yd.	13	16	29
Fiber Wrap	Sq. Ft.	101	141	242
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	602	401	1,003
Jack and Remove Existing Bearing	Each	7	6	13
Structural Steel Removal	L. Sum	-	1	1
Bridge Deck Latex Concrete Overlay 3"	Sq. Yd.	729	603	1,332
Bridge Deck Scarification 2 3/4"	Sq. Yd.	729	603	1,332
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	37	50	87
Deck Drain Extensions	Each	12	7	19
Deck Slab Repair (Full Depth Type II)	Sq. Yd.	9.0	6.7	15.7
** Diamond Grinding (Bridge Section)	Sq. Yd.	667	540	1,207
Railroad Protective Liability Insurance	L. Sum	-	-	1
Slope Wall Slurry Pumping	Cu. Yd.	30	106	136

* Protective Coat shall be applied to all new concrete superstructure and all new concrete overlays as specified in Article 503.19 of the Standard Specifications.
 ** Up to 1/4" may be ground off bridge deck through the Diamond Grinding process.

GENERAL NOTES

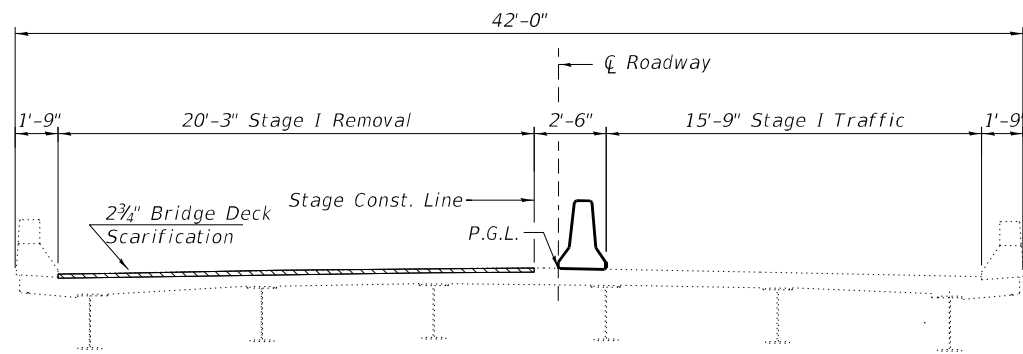
1. Plan dimensions and details relative to the existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
2. 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 repaired or replaced with approved bar splicer or anchorage system. Cost included with Concrete Removal.
3. Joint openings shall be adjusted according to article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.
4. Protective Shield shall be required in accordance with Section 501.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. 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 the 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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

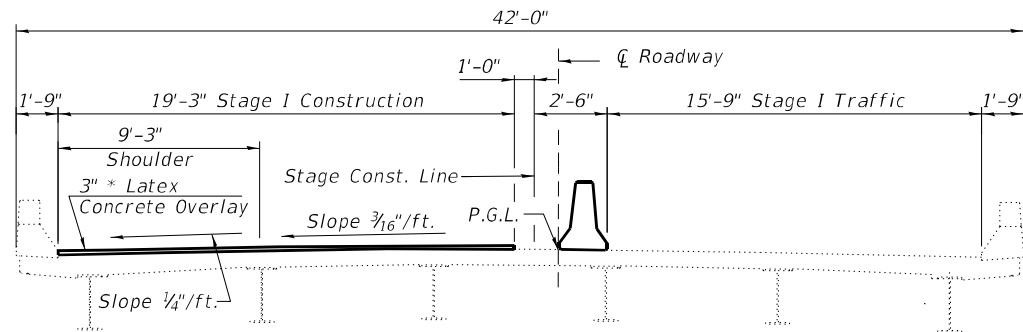
7. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
8. All new structural steel and bearing assembly shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing For Structural Steel".
9. Traffic will be maintained using stage construction.
10. Fasteners shall be ASTM F3125 Grade A325 Type 1. Fasteners shall be hot dip galvanized. Bolts 3/4 in. diameter, unless otherwise noted.
11. 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".

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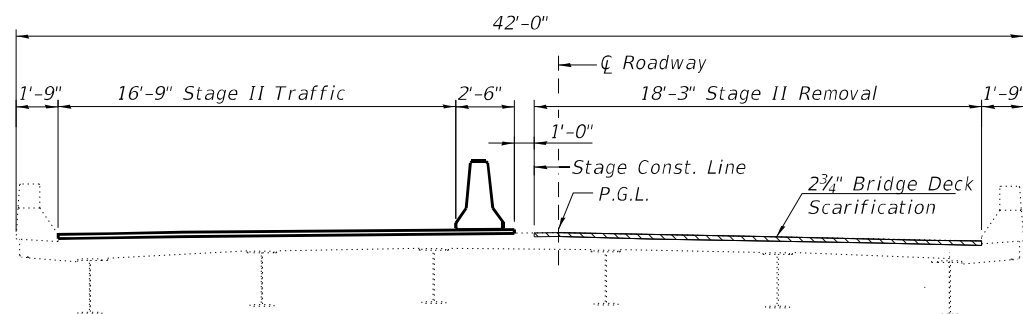
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	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT				



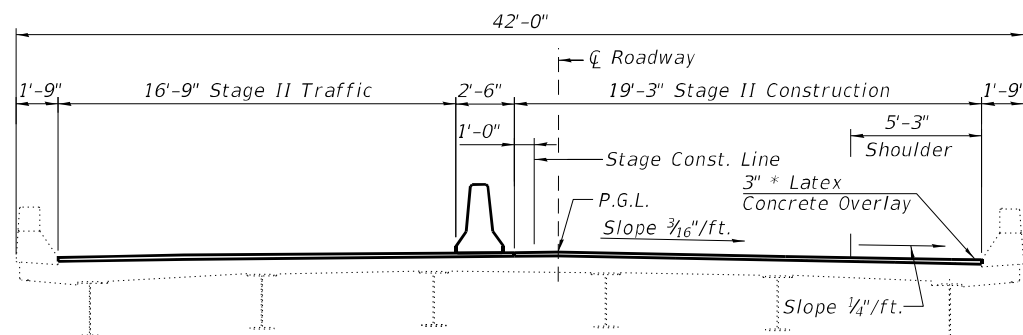
STAGE I REMOVAL DETAIL
S.N. 041-0084 Looking East



STAGE I CONSTRUCTION DETAIL
S.N. 041-0084 Looking East

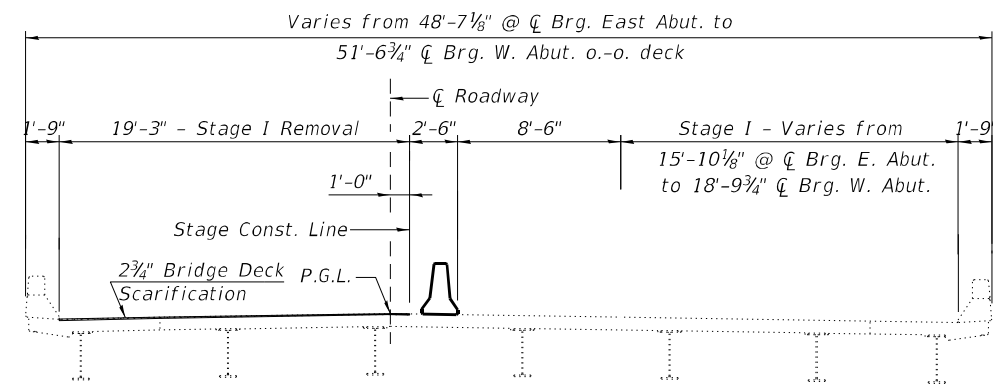


STAGE II REMOVAL DETAIL
S.N. 041-0084 Looking East

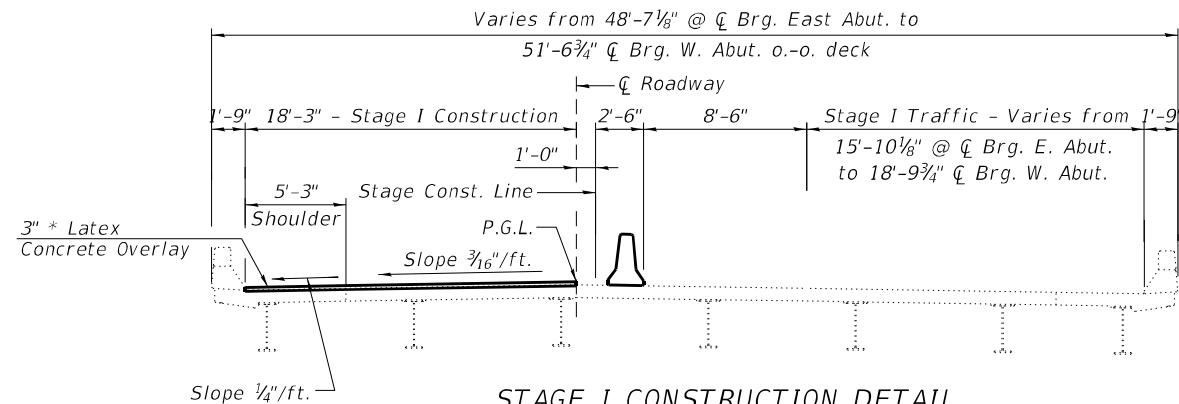


STAGE II CONSTRUCTION DETAIL
S.N. 041-0084 Looking East

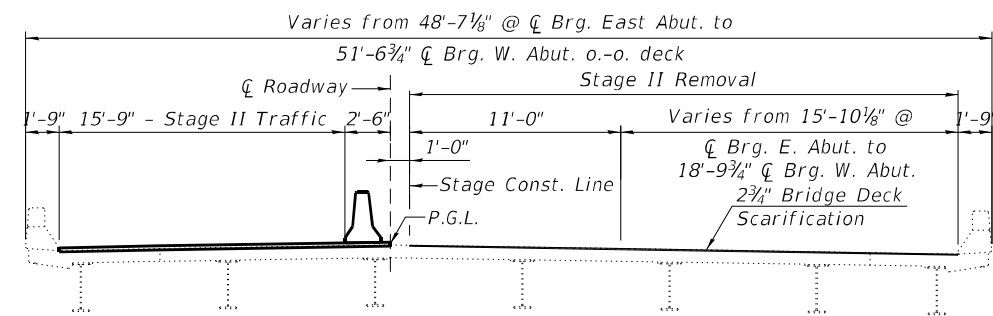
* Prior to diamond grinding



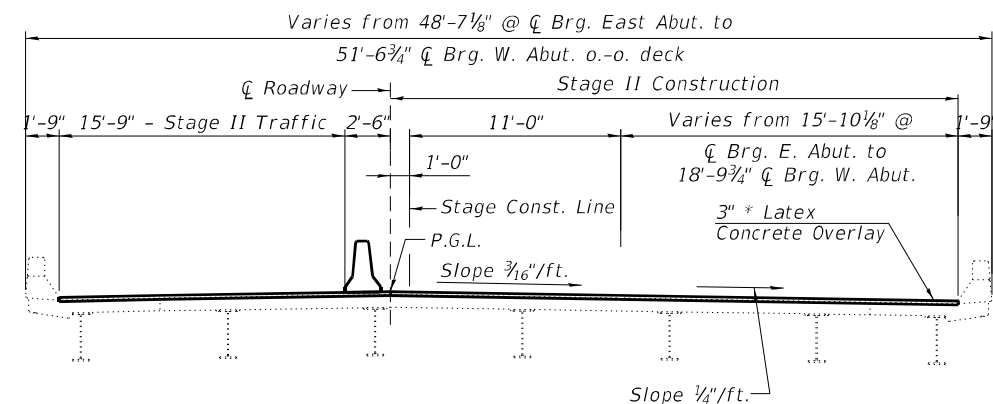
STAGE I REMOVAL DETAIL
S.N. 041-0083 Looking East



STAGE I CONSTRUCTION DETAIL
S.N. 041-0083 Looking East



STAGE II REMOVAL DETAIL
S.N. 041-0083 Looking East



STAGE II CONSTRUCTION DETAIL
S.N. 041-0083 Looking East

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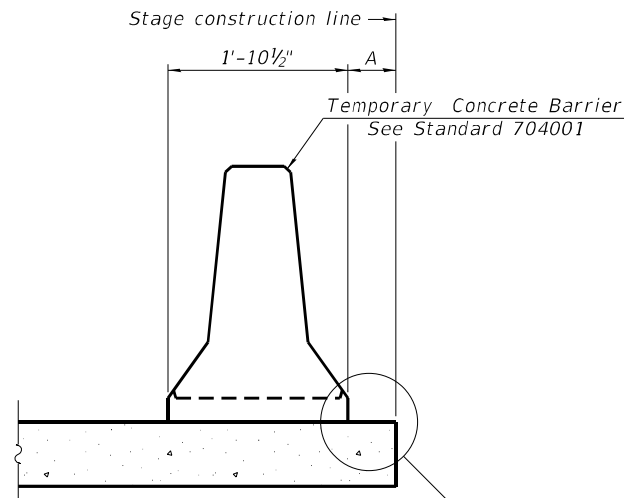


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

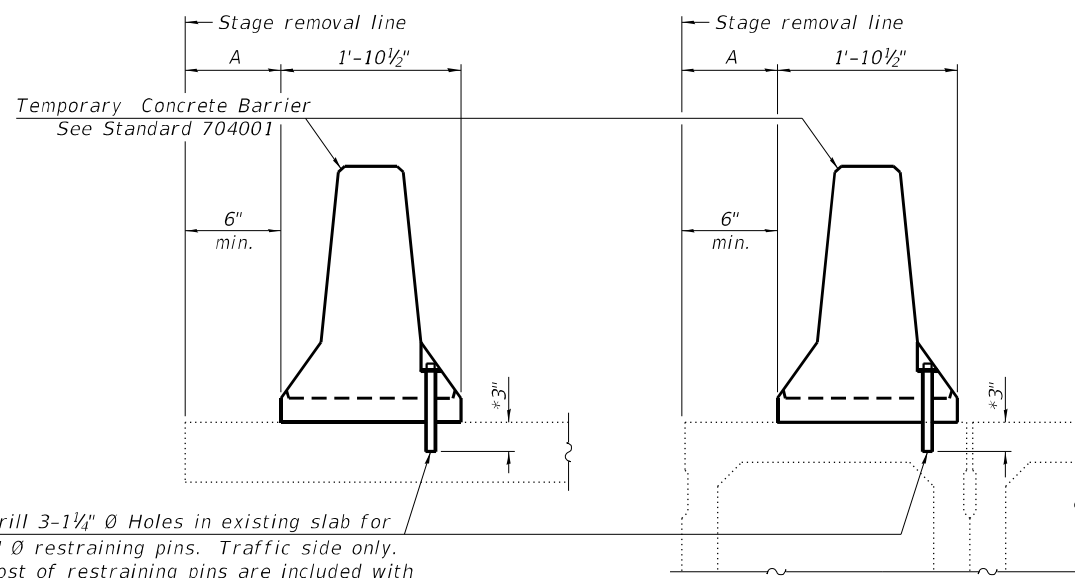
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 041-0083 (EB) & 041-0084 (WB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	22
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



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".

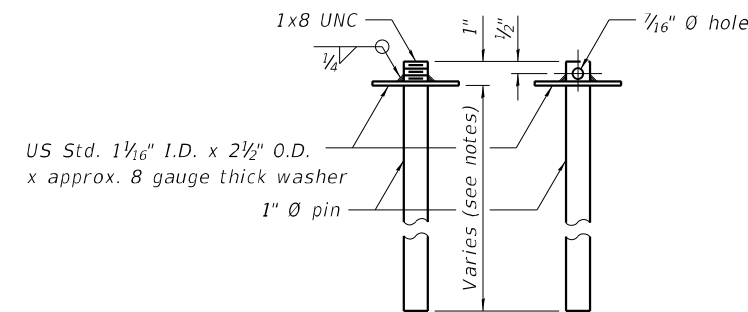
NEW SLAB OR NEW DECK BEAM



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

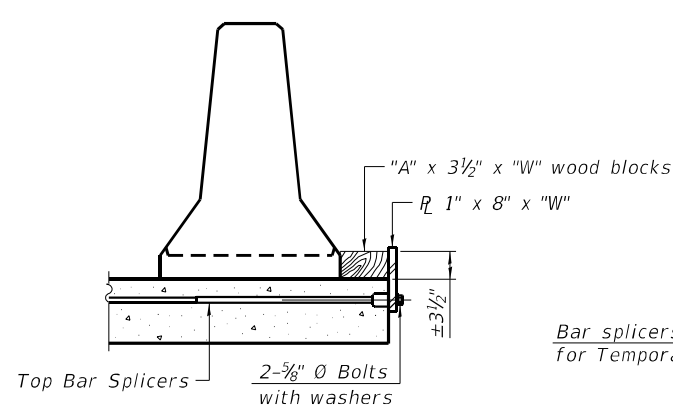
EXISTING DECK BEAM



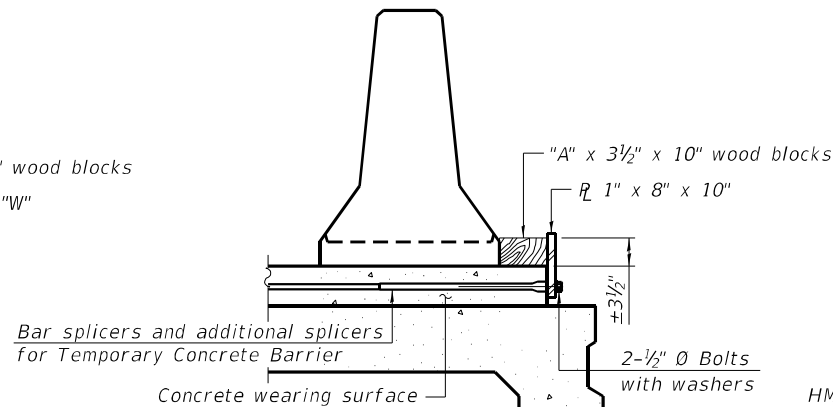
RESTRAINING PIN

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

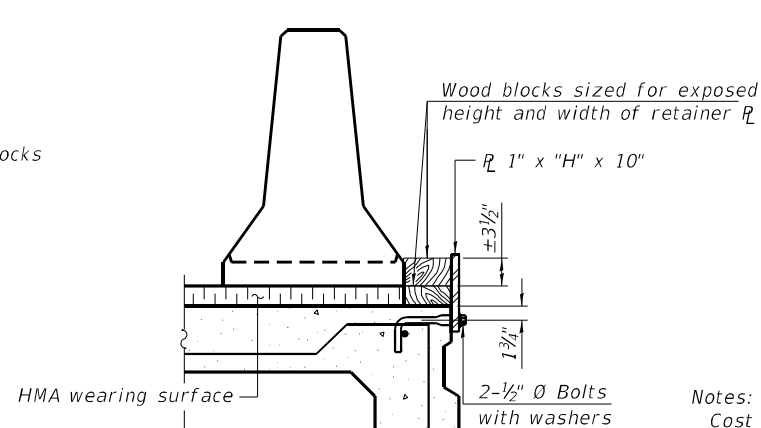
SECTIONS THRU SLAB OR DECK BEAM



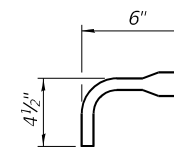
DETAIL I



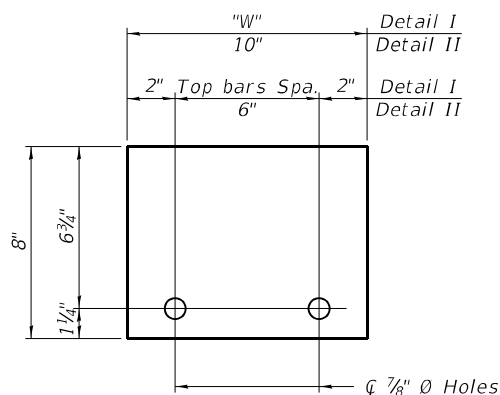
DETAIL II



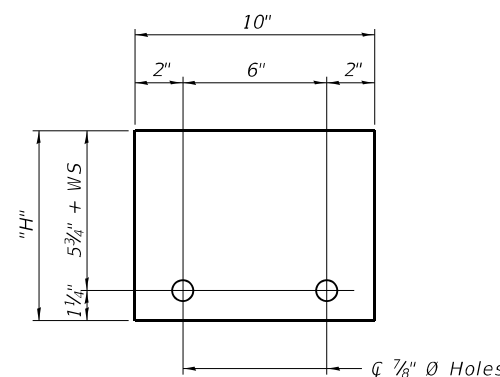
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate $\frac{1}{2}$ 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.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

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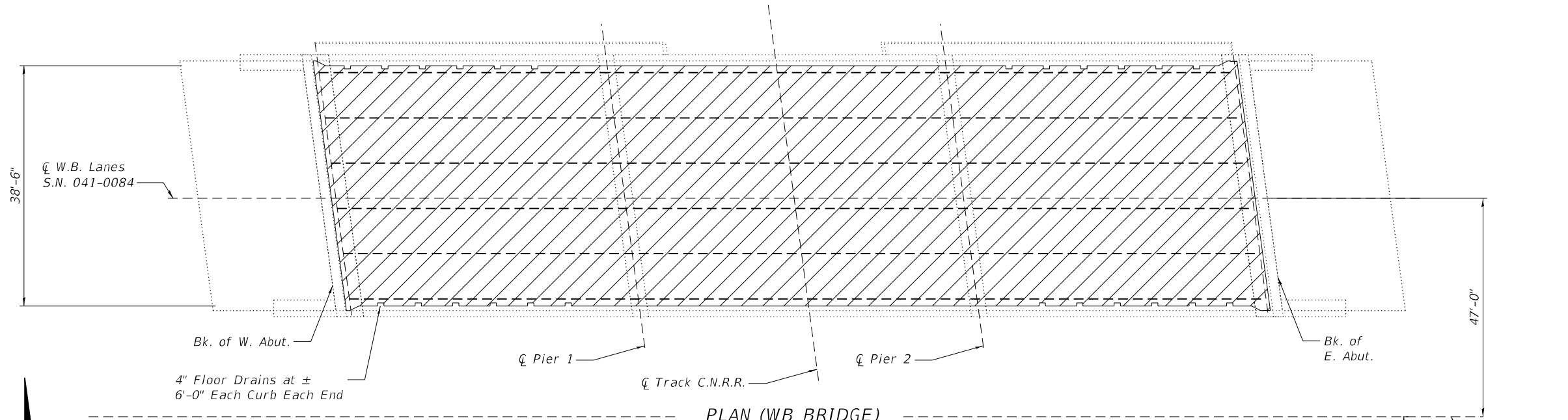
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

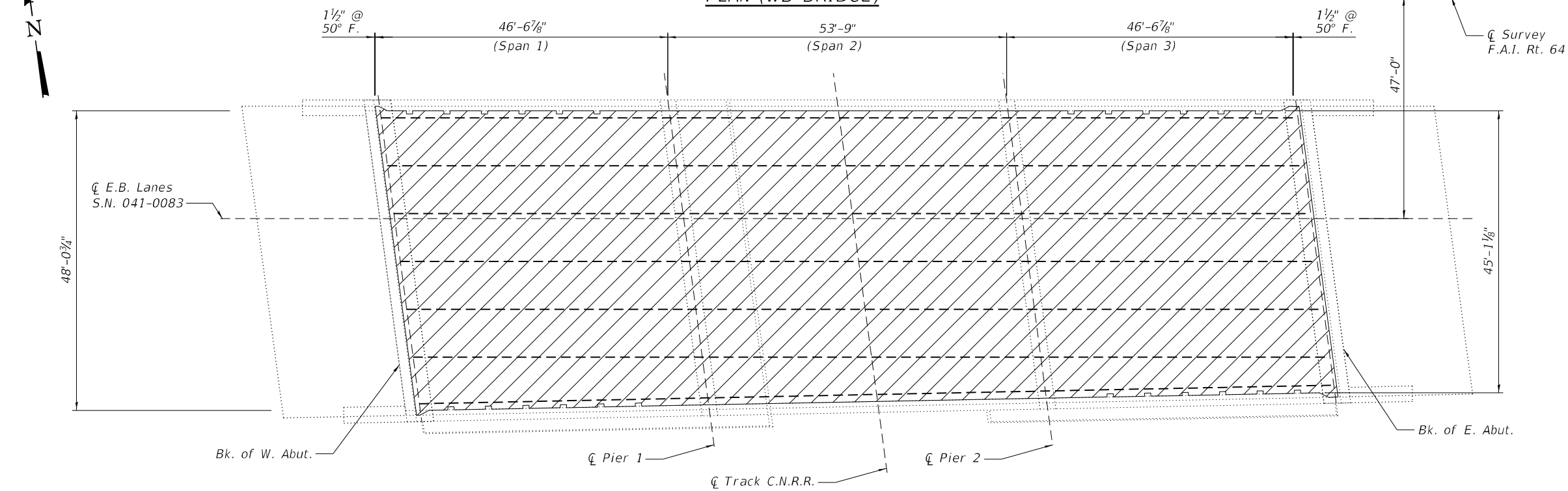
TEMPORARY CONCRETE BARRIER
 STRUCTURE NO. 041-0083 (EB) & 041-0084 (WB)

SHEET 4 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	23
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



PLAN (WB BRIDGE)



PLAN (EB BRIDGE)

 Limits of Bridge Deck Scarification, 2 3/4",
Bridge Deck Latex Concrete Overlay, 3",
Diamond Grinding

BILL OF MATERIAL

Structure	Item	Unit	Total
041-0083	Bridge Deck Grooving (Longitudinal)	Sq. Yd.	602
041-0083	Bridge Deck Latex Concrete Overlay, 3"	Sq. Yd.	729
041-0083	Bridge Deck Scarification 2 3/4"	Sq. Yd.	729
041-0083	Diamond Grinding (Bridge Section)	Sq. Yd.	729
041-0084	Bridge Deck Grooving (Longitudinal)	Sq. Yd.	401
041-0084	Bridge Deck Latex Concrete Overlay, 3"	Sq. Yd.	603
041-0084	Bridge Deck Scarification 2 3/4"	Sq. Yd.	603
041-0084	Diamond Grinding (Bridge Section)	Sq. Yd.	603

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CDI
CIVIL DESIGN, INC.
WBE | DBE
EFFINGHAM, IL
LICENSE # 184.003222

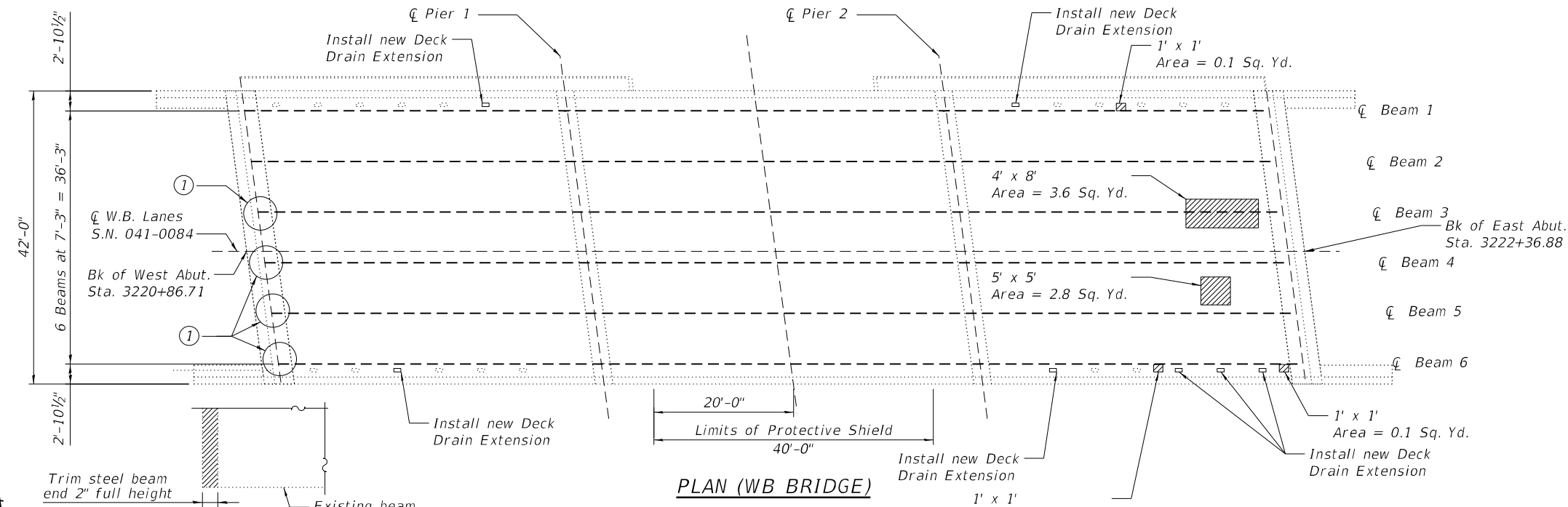
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

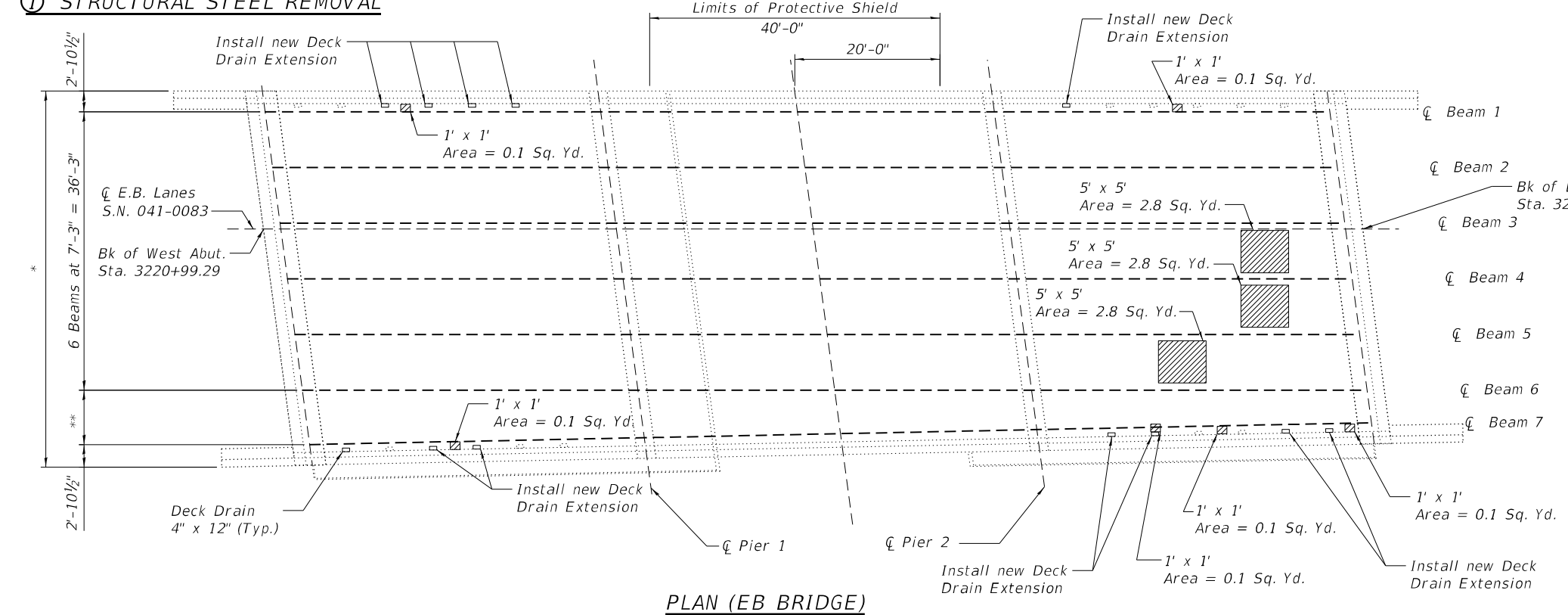
WEARING SURFACE DETAILS
STRUCTURE NO. 041-0083 (EB) & 041-0084 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

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① STRUCTURAL STEEL REMOVAL



LEGEND

Deck Slab Repair (Full Depth, Type II)

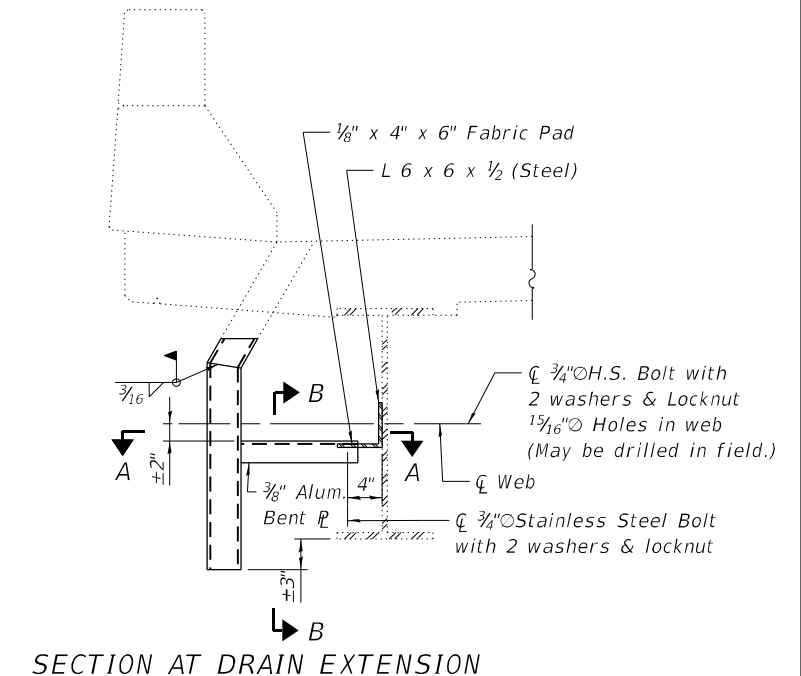
NOTES:

Patch sizes shown represent conditions at the time the plans were completed. Quantity for Deck Slab Repair (Full Depth, Type II) includes the above areas and 1% of the deck area as an allowance for increase in deterioration. The actual sizes and locations of patching shall be determined by the engineer. The Engineer shall show the actual locations of the deck repairs on this sheet.

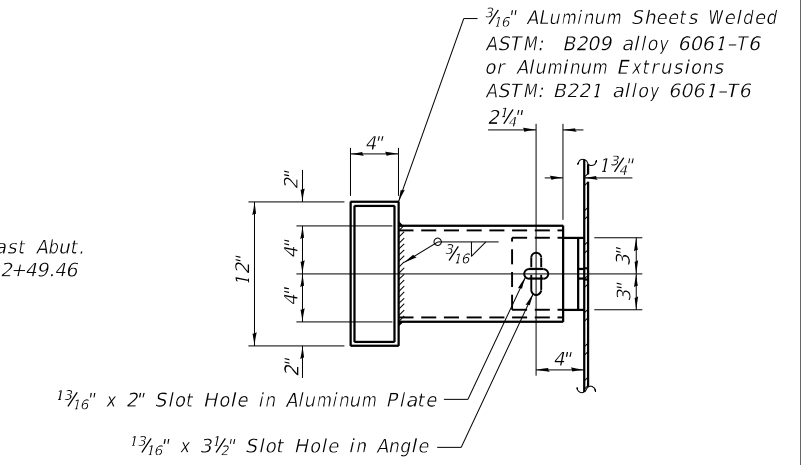
* Varies from 48'-7 1/8" @ ζ Brg East Abut. to 51'-6 3/4" @ ζ Brg West Abut. out to out deck
 ** Varies from 4'-6 1/8" to 7'-5 3/4" @ ζ Brg. of Abuts.

BILL OF MATERIAL

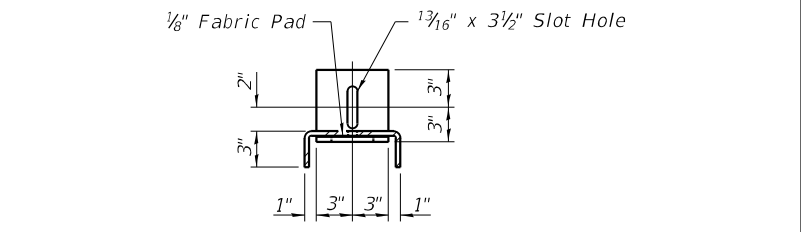
Structure	Item	Unit	Total
041-0083	Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	9.0
041-0083	Deck Drain Extensions	Each	12
041-0084	Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	6.7
041-0084	Deck Drain Extensions	Each	7
041-0084	Structural Steel Removal	L. Sum	1



SECTION AT DRAIN EXTENSION



SECTION A-A



SECTION B-B

Notes:
 The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drain shall be cleaned and given a washcoat pretreatment in accordance with Society of Protective Coatings Spec. SSPC-SP1 & SSPC Paint 27 prior to painting.

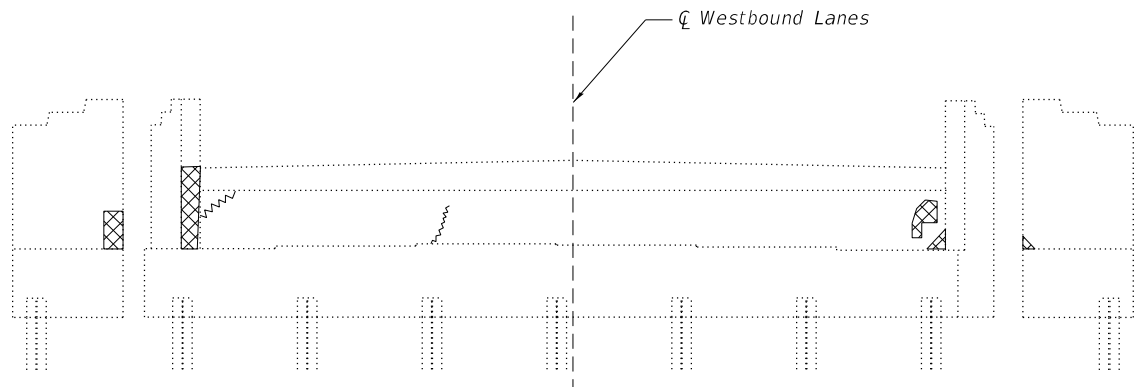


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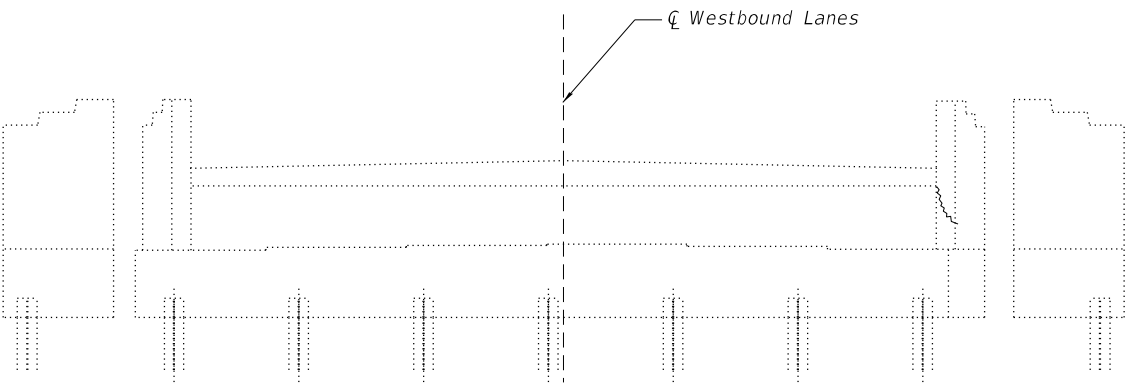
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FLOOR DRAIN & REFLECTED DECK PATCHING DETAILS
 STRUCTURE NO. 041-0083 (EB) & 041-0084 (WB)

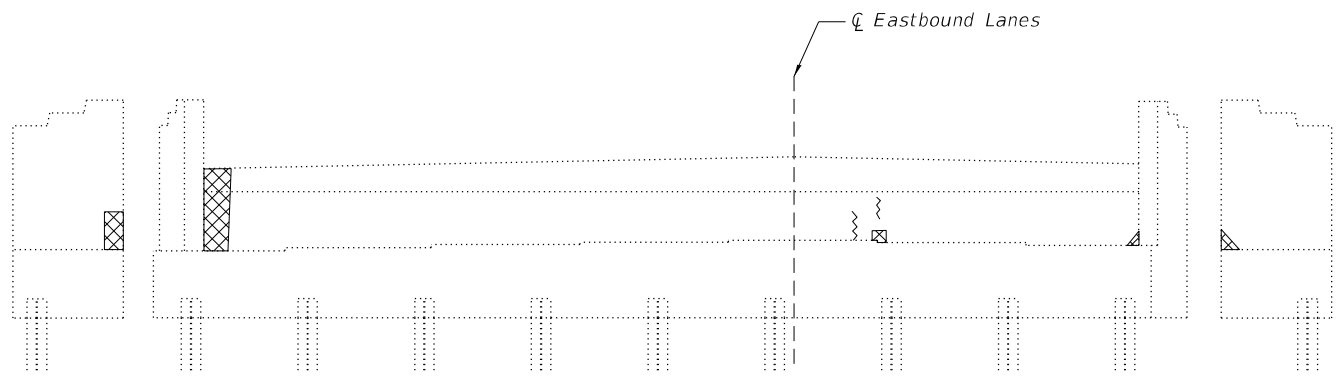
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64	041-9VB-2	JEFFERSON	49	25
CONTRACT NO. 78917				



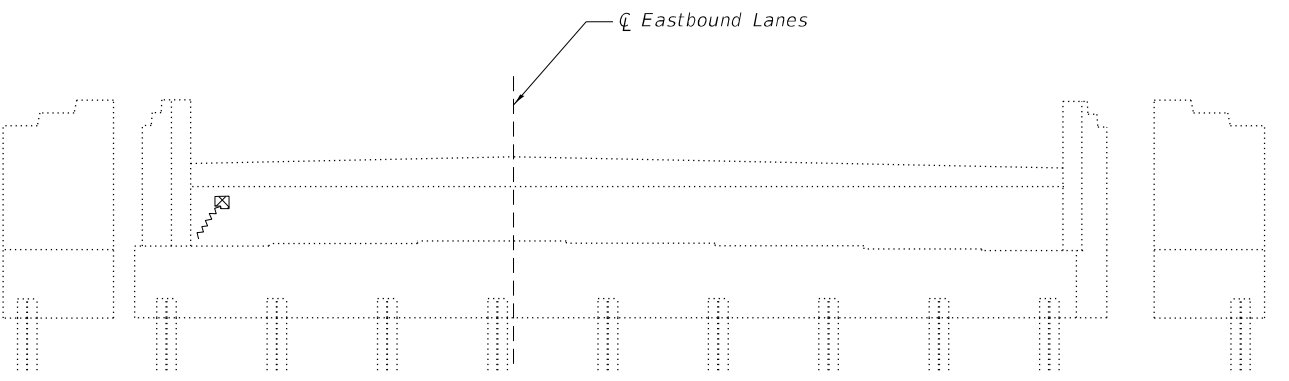
041-0084 WEST ABUTMENT



041-0084 EAST ABUTMENT





041-0083 WEST ABUTMENT



041-0083 EAST ABUTMENT

LEGEND

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

BILL OF MATERIAL

Structure	Item	Unit	Total
041-0083	Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	23
041-0083	Epoxy Crack Injection	Foot	15
041-0084	Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	26
041-0084	Epoxy Crack Injection	Foot	20

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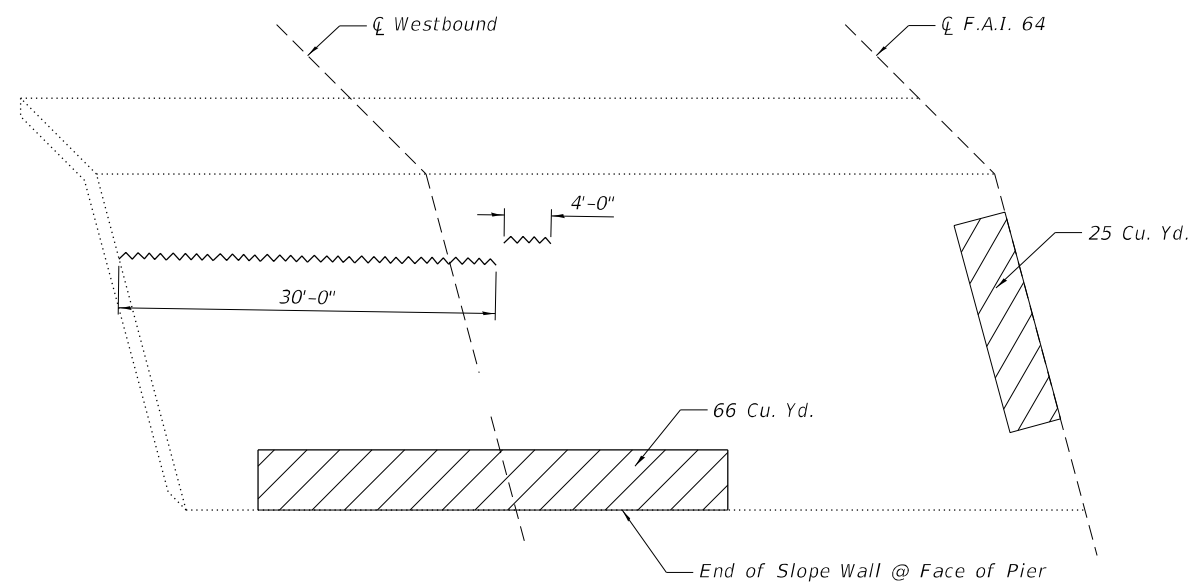
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

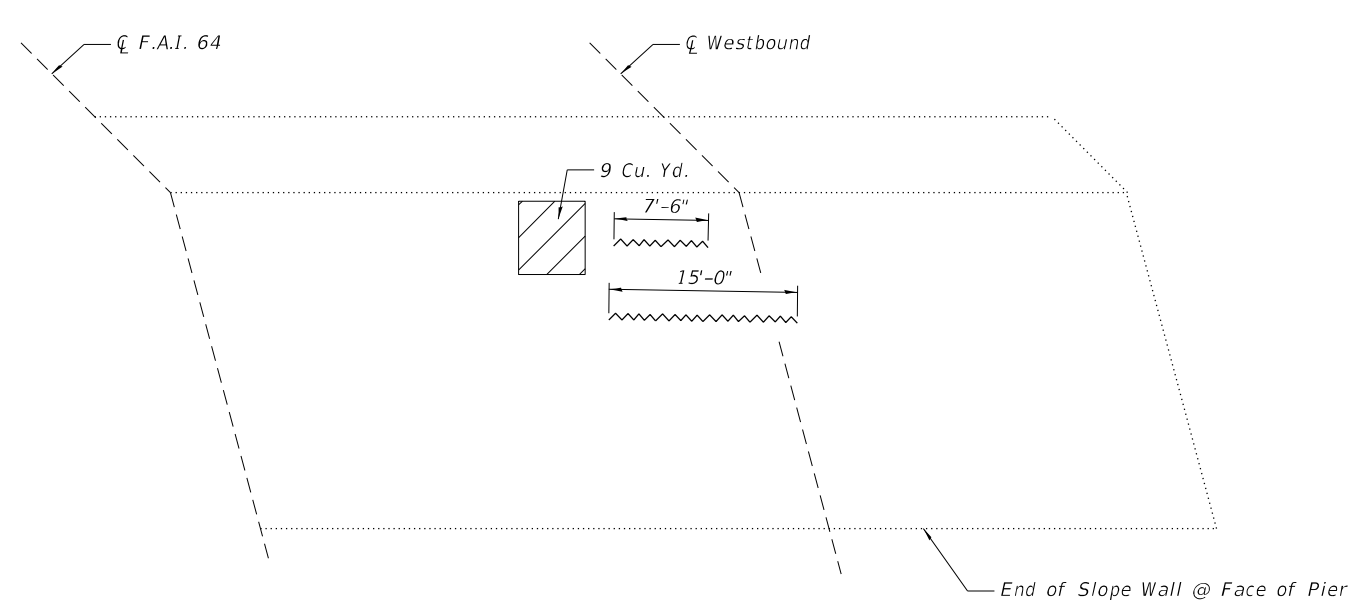
**ABUTMENT REPAIR PLAN
STRUCTURE NO. 041-0083 (EB) & 041-0084 (WB)**

SHEET 7 OF 30 SHEETS

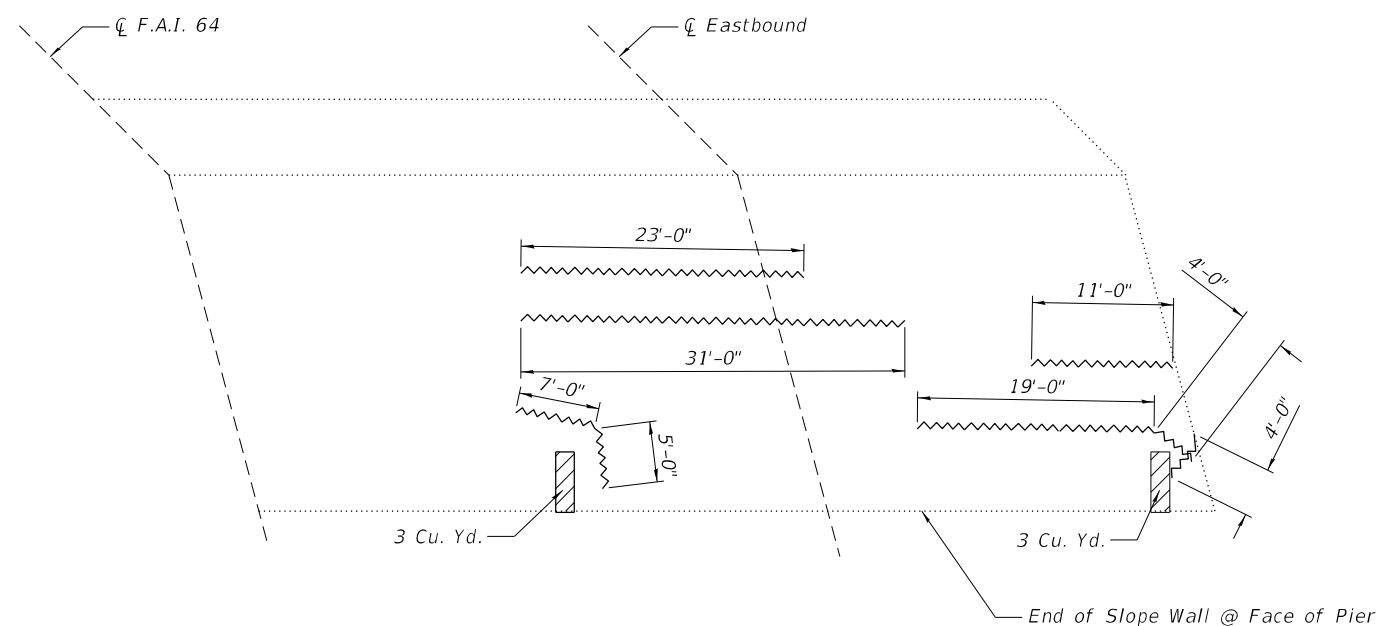
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CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



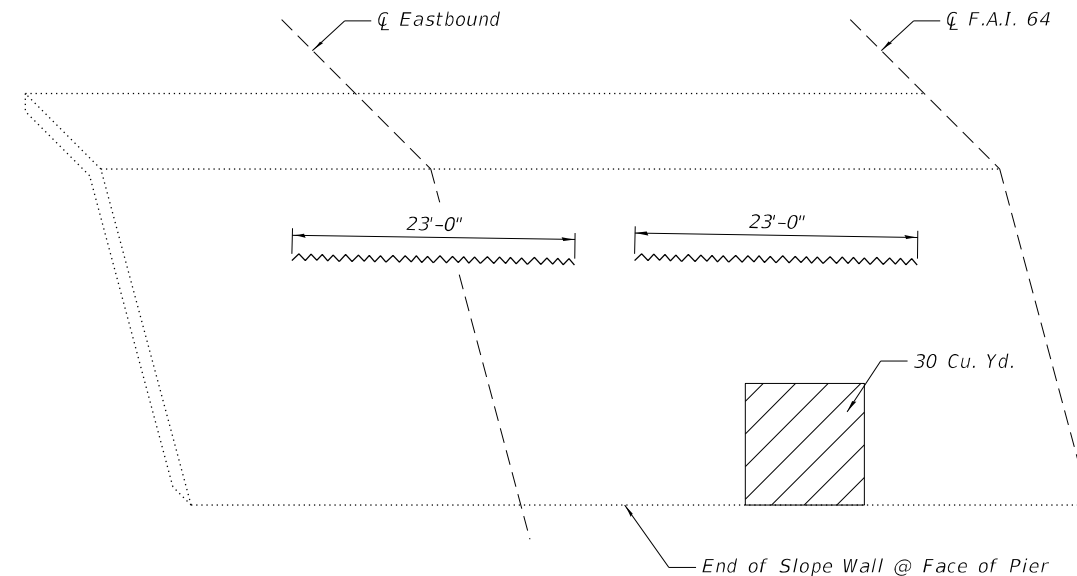
ELEVATION
SN 041-0084 East Slope Wall





ELEVATION
SN 041-0084 West Slope Wall



ELEVATION
SN 041-0083 East Slope Wall



ELEVATION
SN 041-0083 West Slope Wall

 Slope Wall Slurry Pumping
 Slope Wall Crack Sealing

BILL OF MATERIAL

Structure	Item	Unit	Total
041-0083	Slope Wall Crack Sealing	Foot	150
041-0083	Slope Wall Slurry Pumping	Cu. Yd.	36
041-0084	Slope Wall Crack Sealing	Foot	56
041-0084	Slope Wall Slurry Pumping	Cu. Yd.	100

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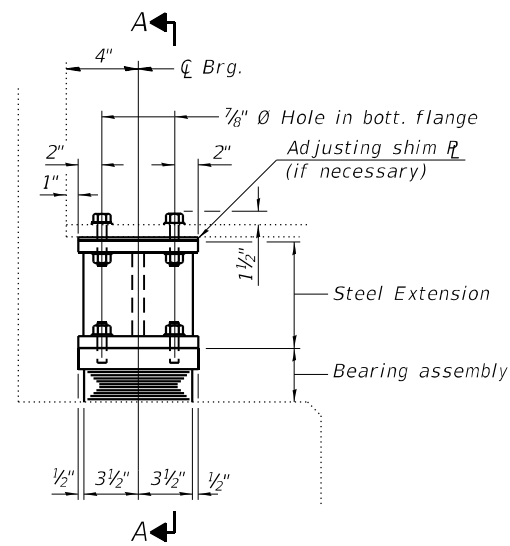
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

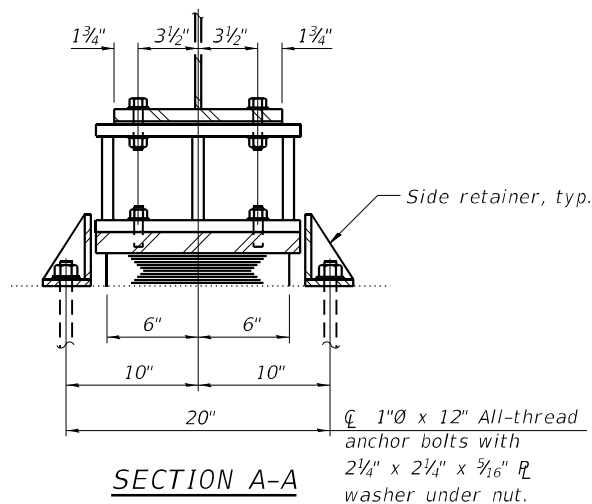
**EAST SLOPE WALL AND WING WALL REPAIRS
STRUCTURE NO. 041-0083 (EB) & 041-0084 (WB)**

SHEET 8 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78917	

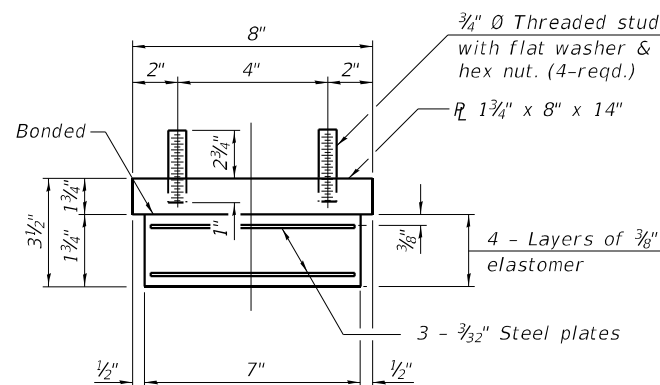


ELEVATION AT ABUT.



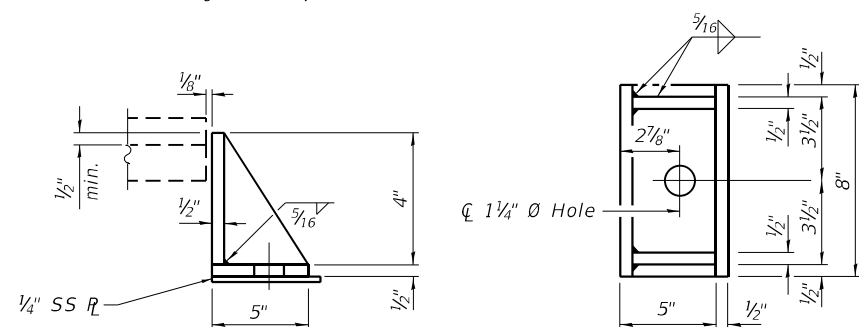
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



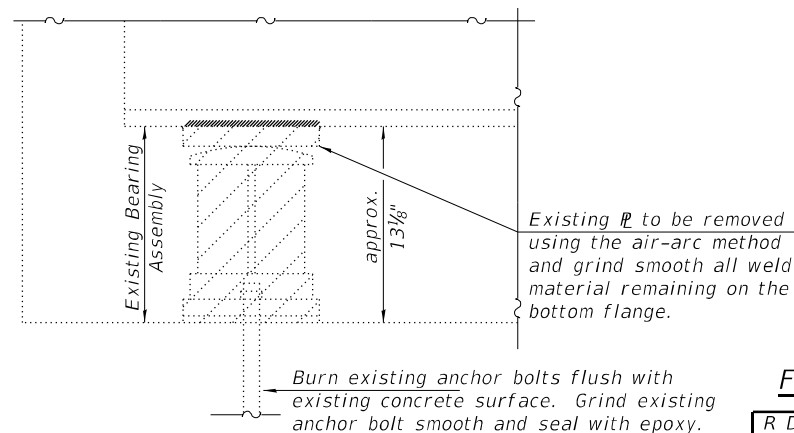
BEARING ASSEMBLY

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



SIDE RETAINER

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

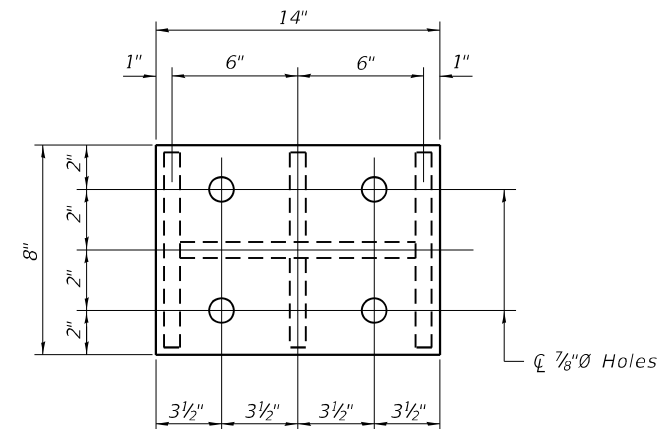


EXISTING BEARING REMOVAL DETAIL

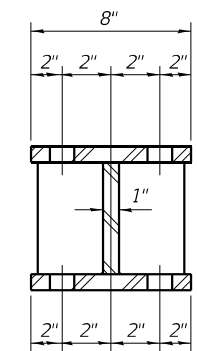
Cost included with Jack and Remove Existing Bearings

INTERIOR GIRDER REACTION TABLE		Abut.
R _l	(k)	21.8
R _r	(k)	38.1
R _i	(k)	11.1
R _{Total}	(k)	71.0

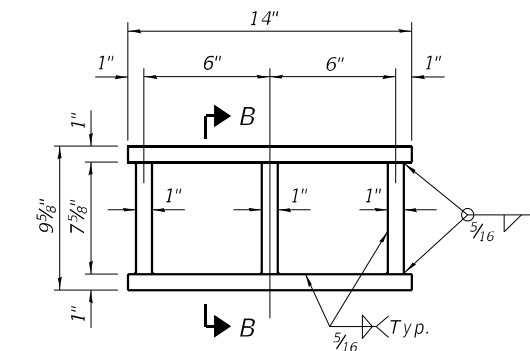
Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connections bolts are included with Furnishing and Erecting Structural Steel.
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust, (if present).
Min. jack capacity = 35 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y = 36 ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Cost of side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



PLAN TOP AND BOTTOM PLATE



SECTION B-B



STEEL EXTENSION DETAIL

FILLER PLATE DIMENSIONS

R Dead Load	SN 041-0083
Beams	1 2 3 4 5 6 7
E. Abut.	

R Dead Load	SN 041-0084
Beams	1 2 3 4 5 6
E. Abut.	

BILL OF MATERIAL

Structure	Item	Unit	Total
041-0083	Elastomeric Bearing Assembly, Type I	Each	7
041-0083	Jack and Remove Existing Bearings	Each	7
041-0083	Anchor Bolts, 1"Ø	Each	14
041-0083	Furnishing and Erecting Structural Steel	Pound	1,010
041-0084	Elastomeric Bearing Assembly, Type I	Each	6
041-0084	Jack and Remove Existing Bearings	Each	6
041-0084	Anchor Bolts, 1"Ø	Each	12
041-0084	Furnishing and Erecting Structural Steel	Pound	860

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STATE OF ILLINOIS
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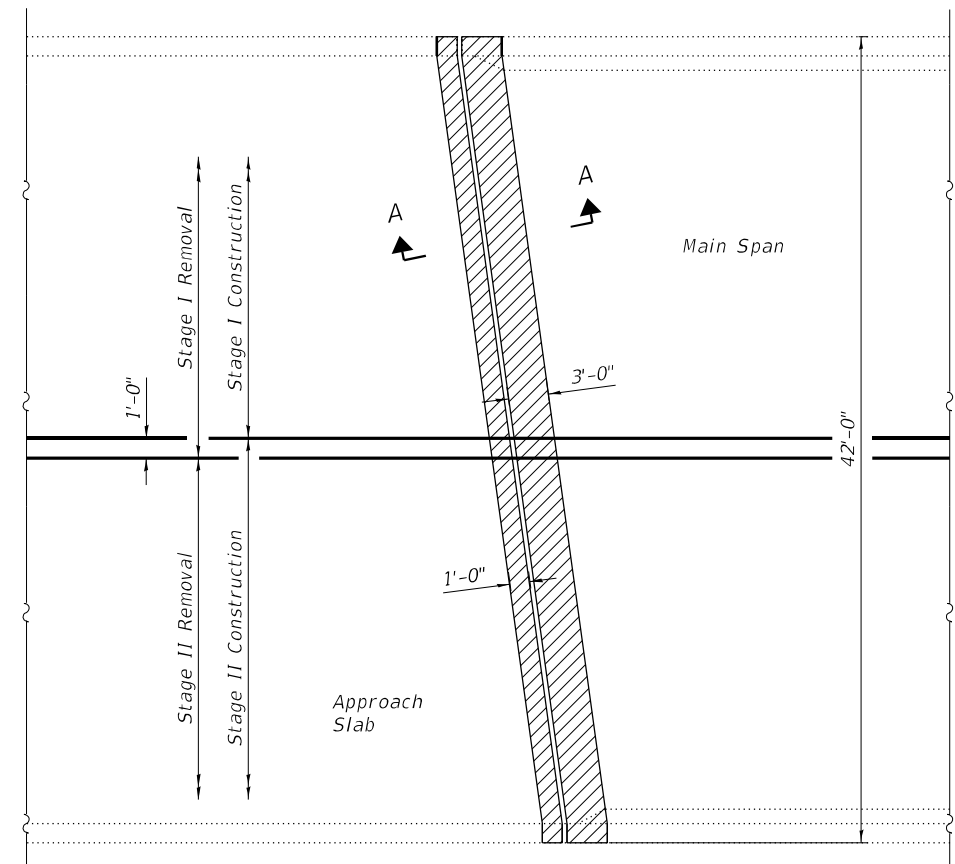
ABUTMENT BEARING DETAILS
STRUCTURE NO. 041-0083 (EB) & 041-0084 (WB)

SHEET 9 OF 30 SHEETS

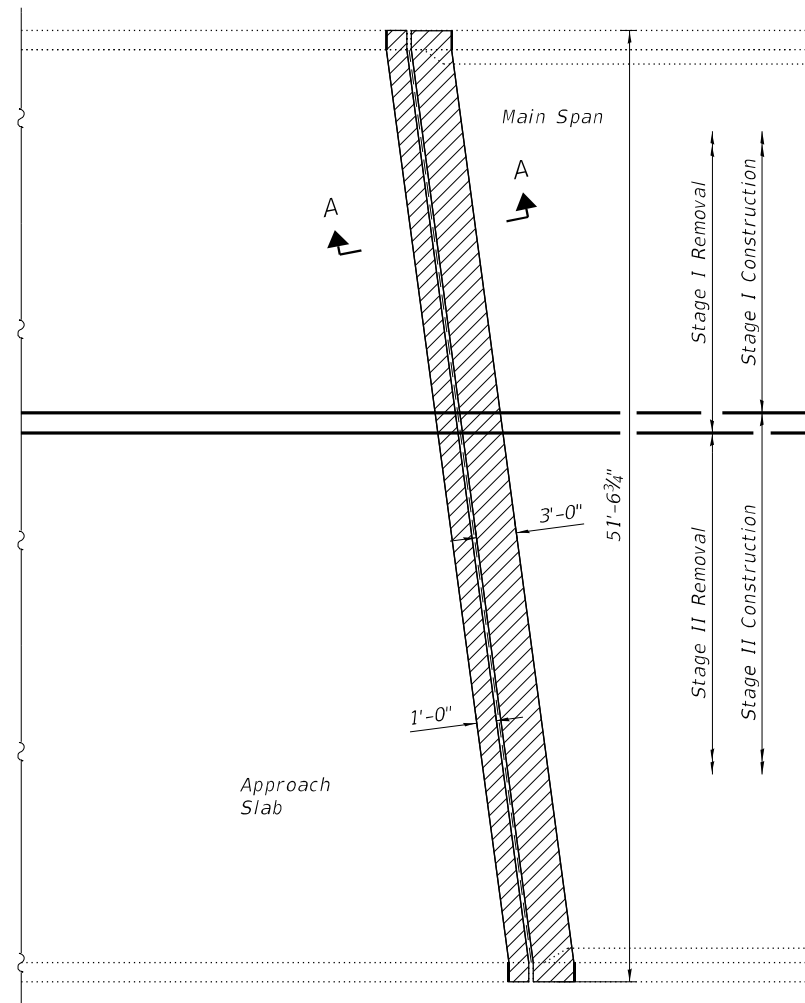
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64	041-9VB-2	JEFFERSON	49	28

CONTRACT NO. 78917
ILLINOIS FED. AID PROJECT

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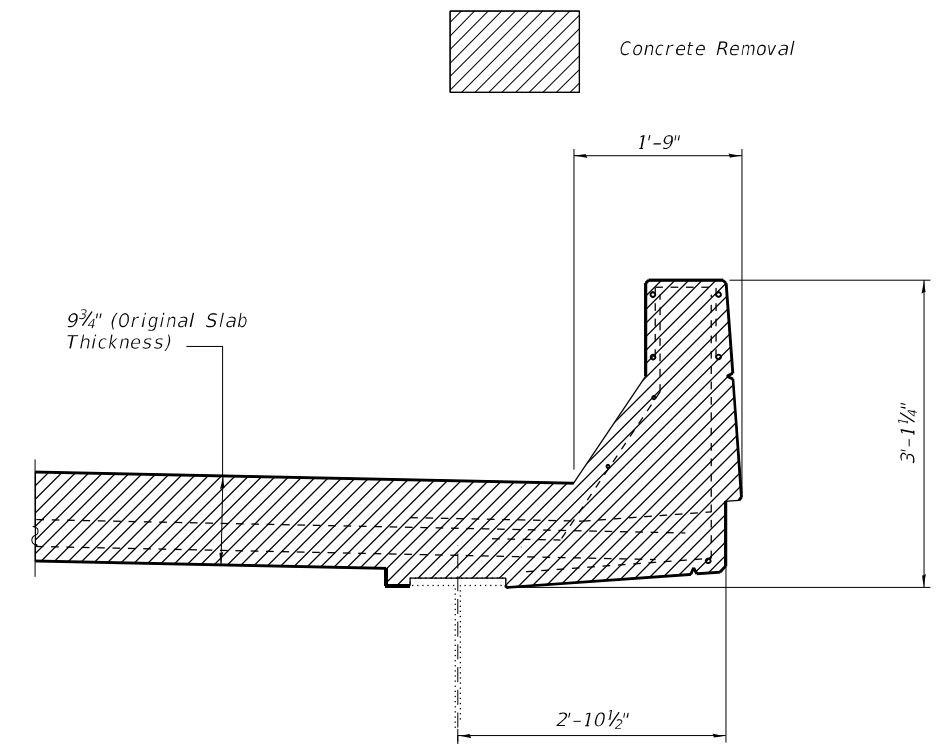


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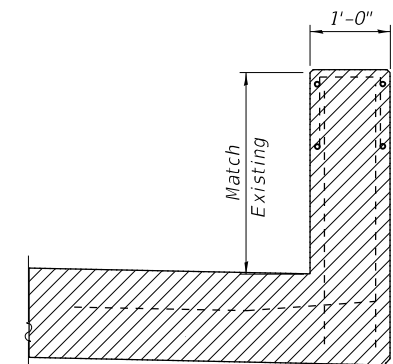


SN 041-0083 WEST ABUTMENT

PLAN



SECTION AT PARAPET



SECTION AT HATCH BLOCK/WING

BILL OF MATERIAL

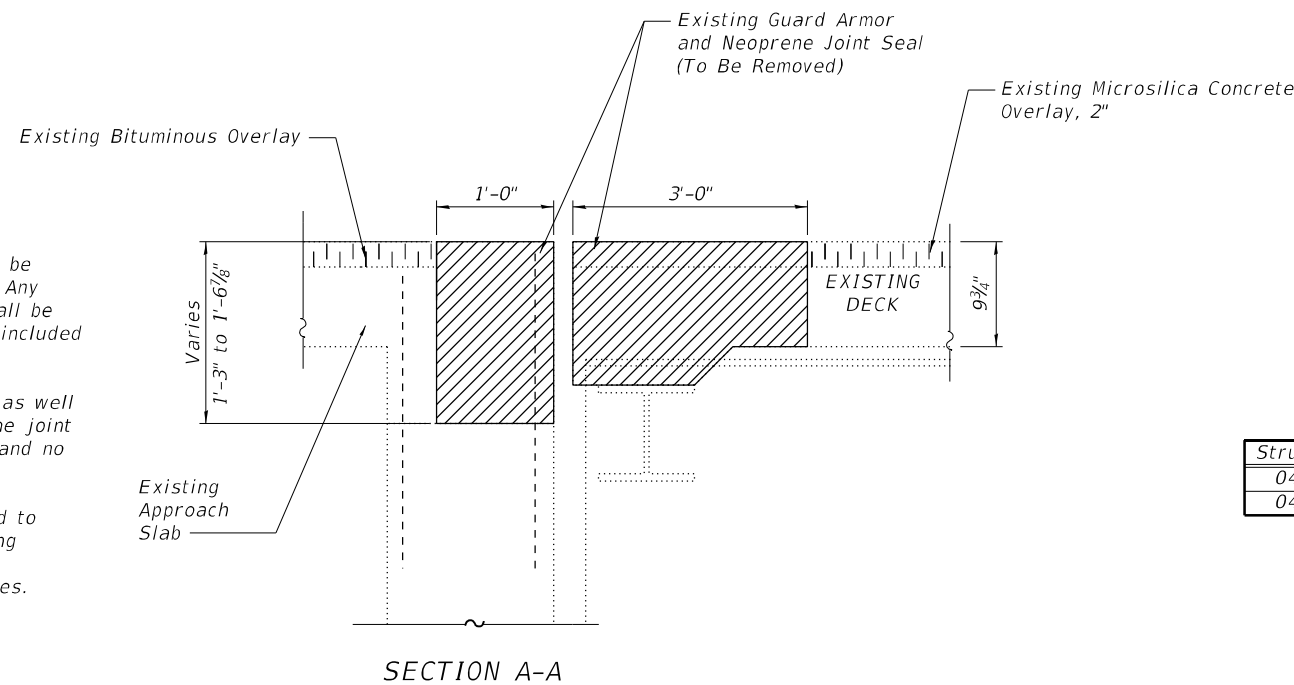
Structure No.	Item	Unit	Total
041-0083	Concrete Removal	Cu. Yd.	8.5
041-0084	Concrete Removal	Cu. Yd.	7.1

NOTES:

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.

The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be reattached. The cost of this work shall be included in Concrete Superstructures.



SECTION A-A



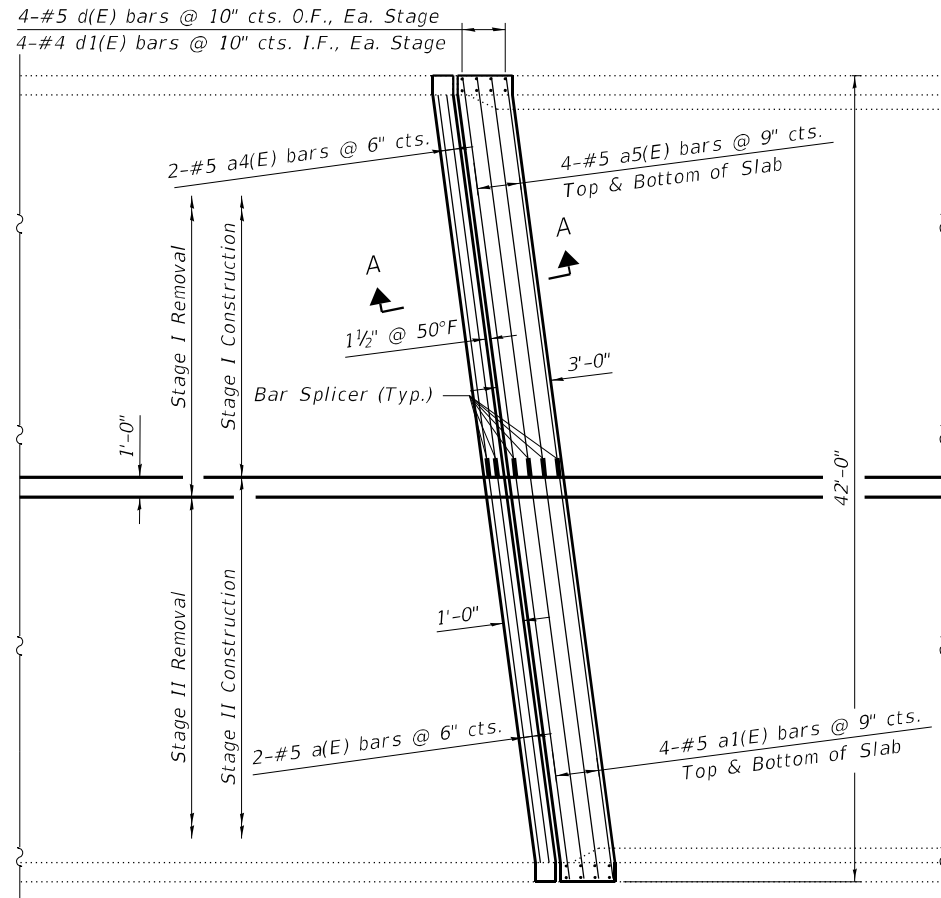
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PLOT SCALE =	CHECKED -	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

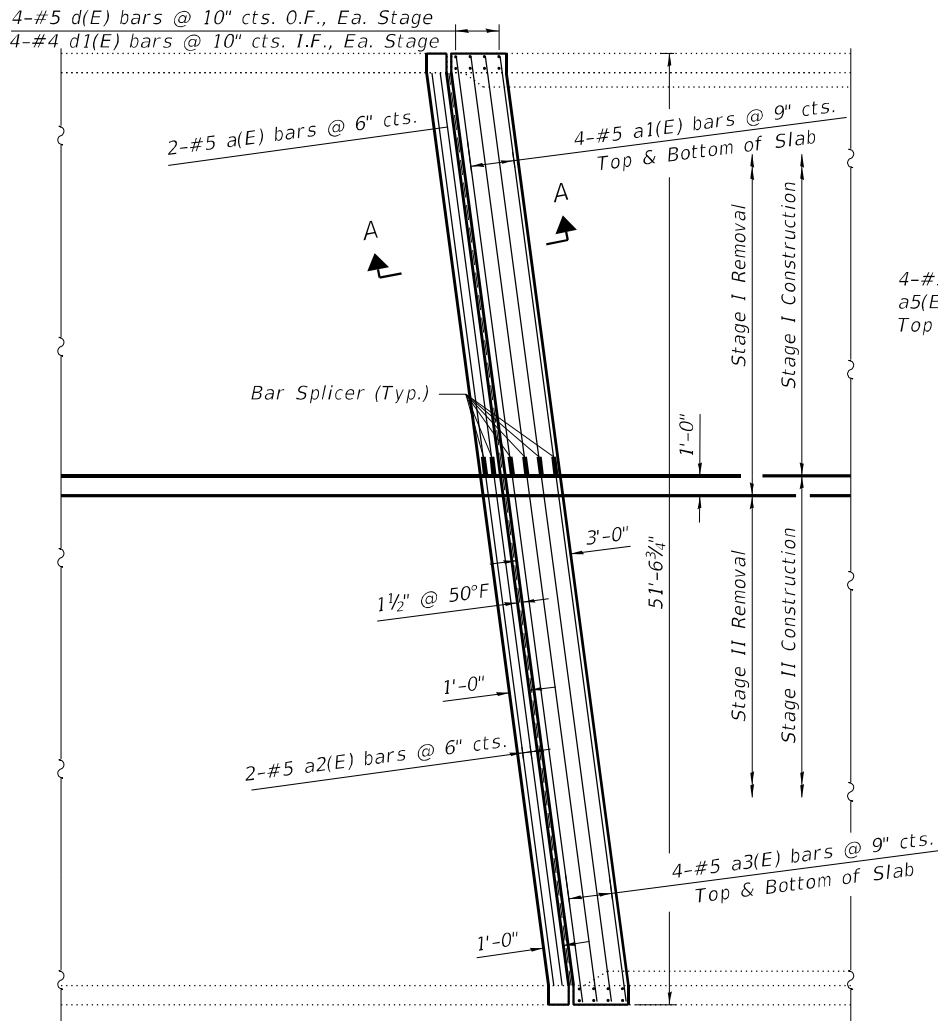
WEST ABUTMENT CONCRETE REMOVAL
 S.N. 041-0083 (EB) & S.N. 041-0084 (WB)

SHEET 10 OF 30 SHEETS

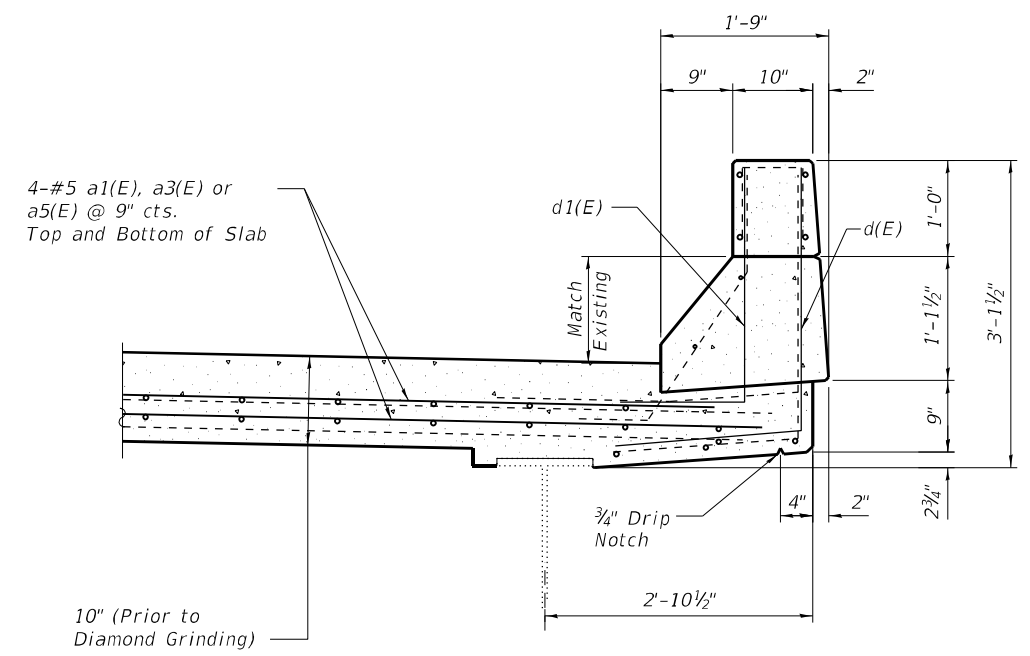
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	29
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



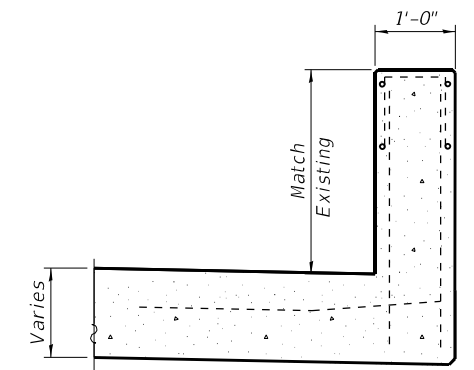
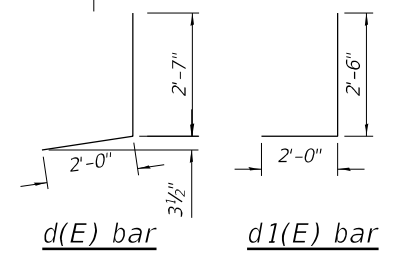
SN 041-0084 WEST ABUTMENT



SN 041-0083 WEST ABUTMENT



SECTION AT PARAPET



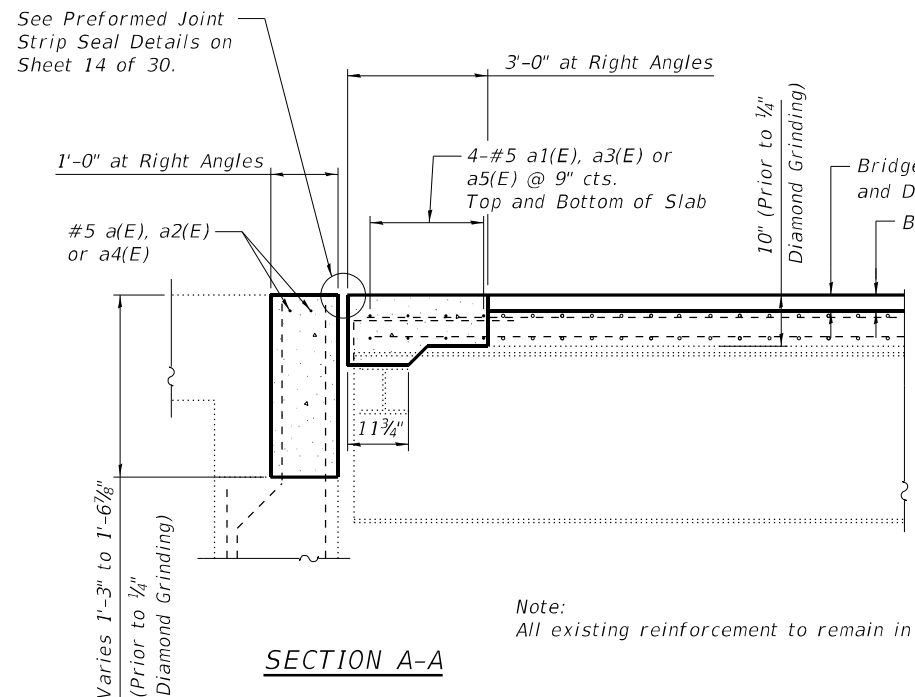
SECTION AT HATCH BLOCK/WING

NOTES:

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.

The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be re-attached. The cost of this work shall be included in Concrete Superstructures.



SECTION A-A

Note:
All existing reinforcement to remain in place.

BILL OF MATERIAL

(S.N. 041-0084)

Bar	No.	Size	Length	Shape	
a(E)	2	#5	19'-1"	—	
a1(E)	8	#5	19'-1"	—	
a4(E)	2	#5	20'-10"	—	
a5(E)	8	#5	20'-10"	—	
d(E)	8	#4	4'-7"	┘	
d1(E)	8	#5	4'-6"	┘	
Reinforcement Bars, Epoxy Coated				Pound	500
Concrete Superstructure				Cu. Yd.	7.1

BILL OF MATERIAL

(S.N. 041-0083)

Bar	No.	Size	Length	Shape	
a(E)	2	#5	19'-1"	—	
a1(E)	8	#5	19'-1"	—	
a2(E)	2	#5	31'-6"	—	
a3(E)	8	#5	31'-6"	—	
d(E)	8	#4	4'-7"	┘	
d1(E)	8	#5	4'-6"	┘	
Reinforcement Bars, Epoxy Coated				Pound	600
Concrete Superstructure				Cu. Yd.	8.5

Reinforcement bars designated (E) shall be epoxy coated.

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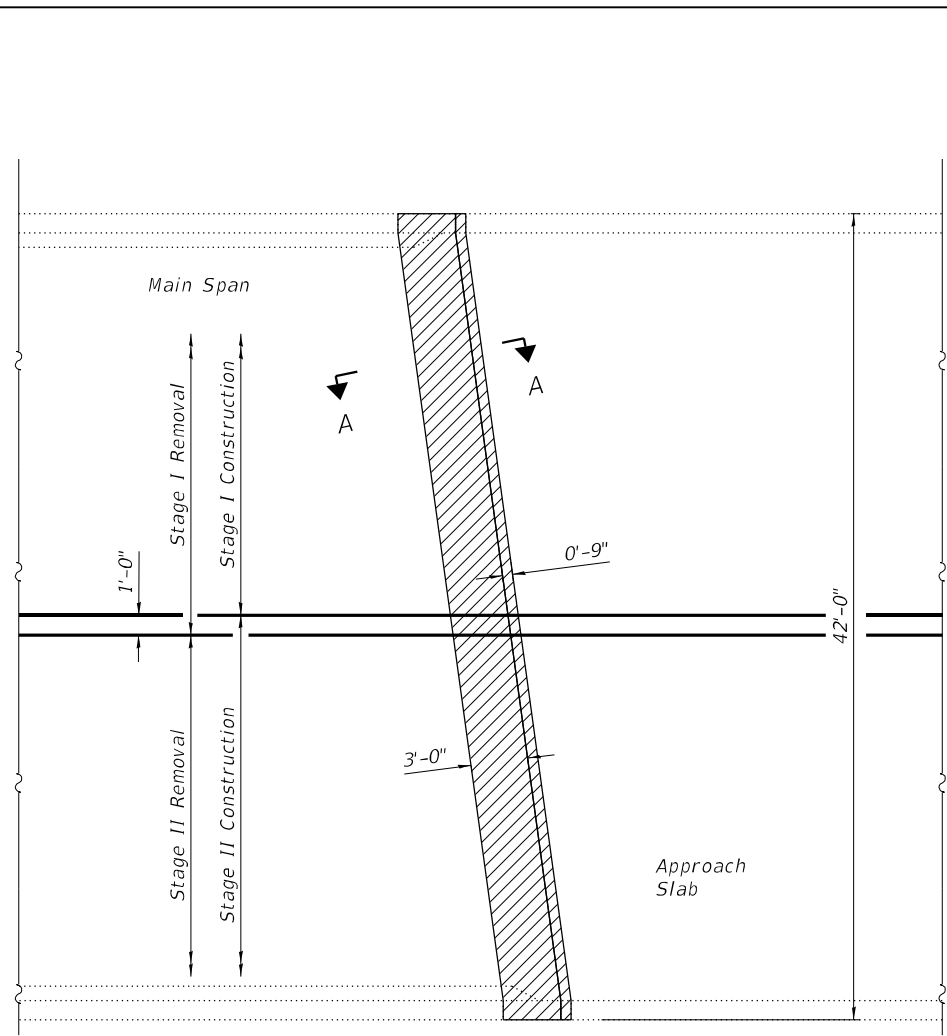
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT CONCRETE SUPERSTRUCTURE
S.N. 041-0083 (EB) & S.N. 041-0084 (WB)

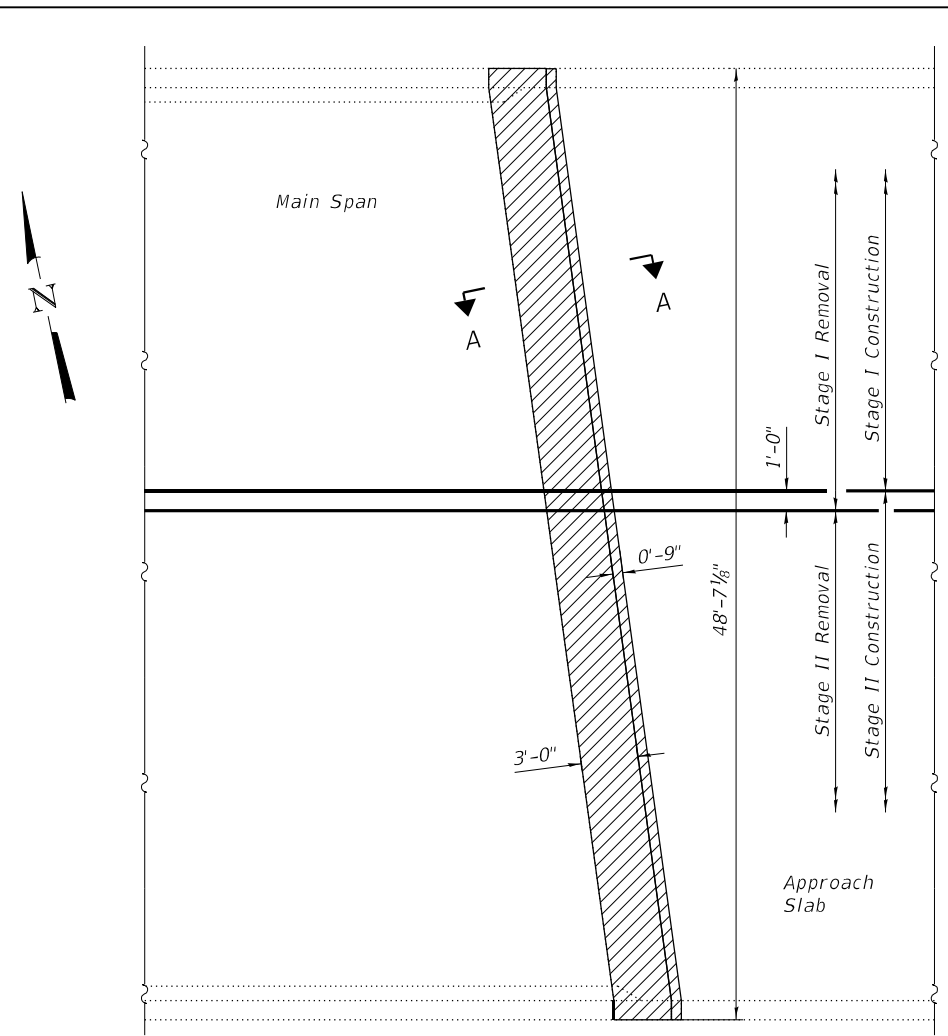
SHEET 11 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	30
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

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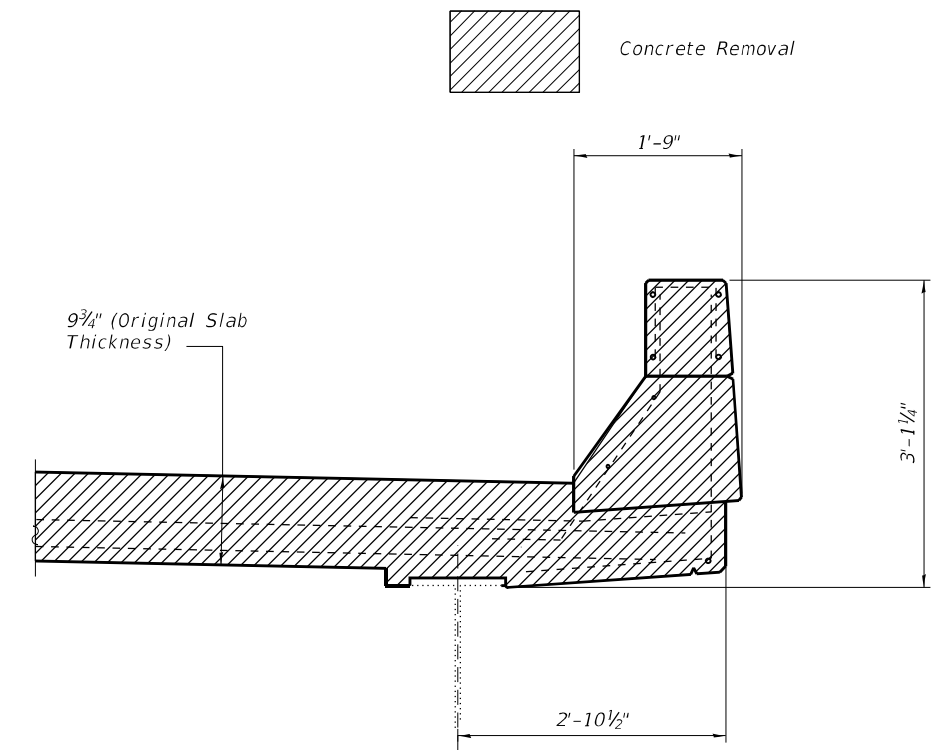


SN 041-0084 EAST ABUTMENT

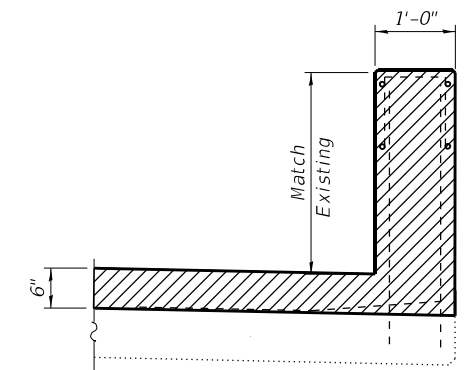


SN 041-0083 EAST ABUTMENT

PLAN



SECTION AT PARAPET



SECTION AT HATCH BLOCK/WING

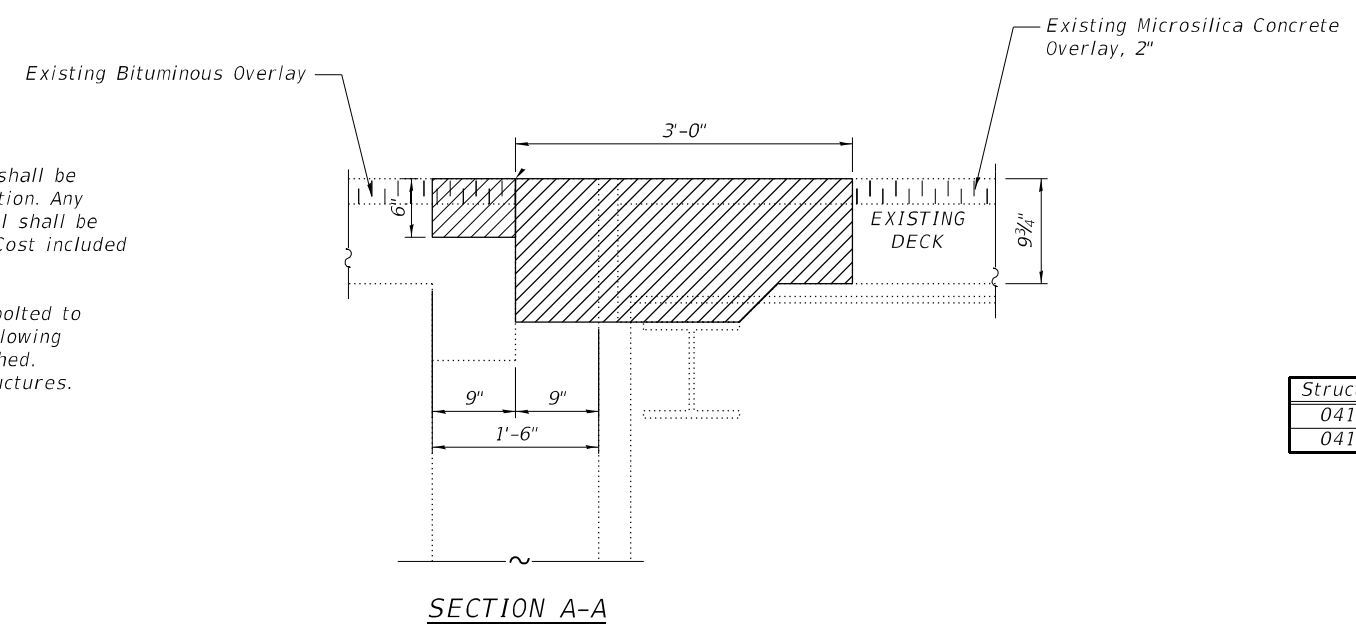
BILL OF MATERIAL

Structure No.	Item	Unit	Total
041-0083	Concrete Removal	Cu. Yd.	8.0
041-0084	Concrete Removal	Cu. Yd.	7.1

NOTES:

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.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be reattached. The cost of this work shall be included in Concrete Superstructures.



SECTION A-A



USER NAME =	DESIGNED -	REVISED -
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

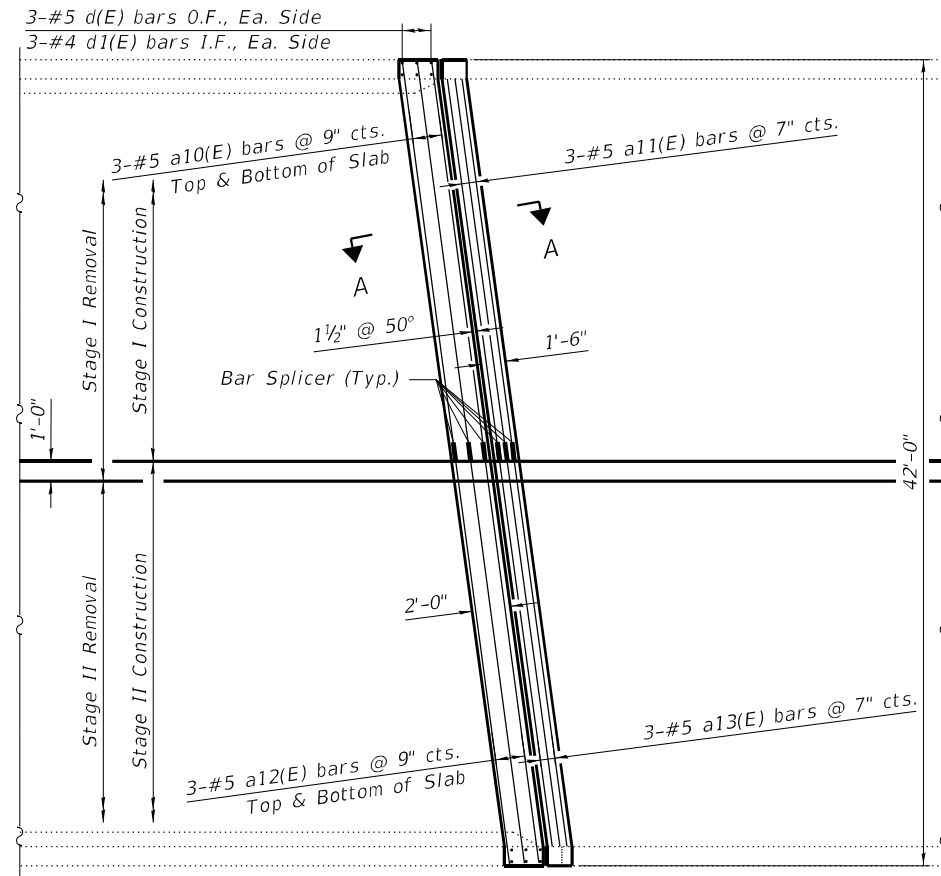
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT CONCRETE REMOVAL
 S.N. 041-0083 (EB) & S.N. 041-0084 (WB)**

SHEET 12 OF 30 SHEETS

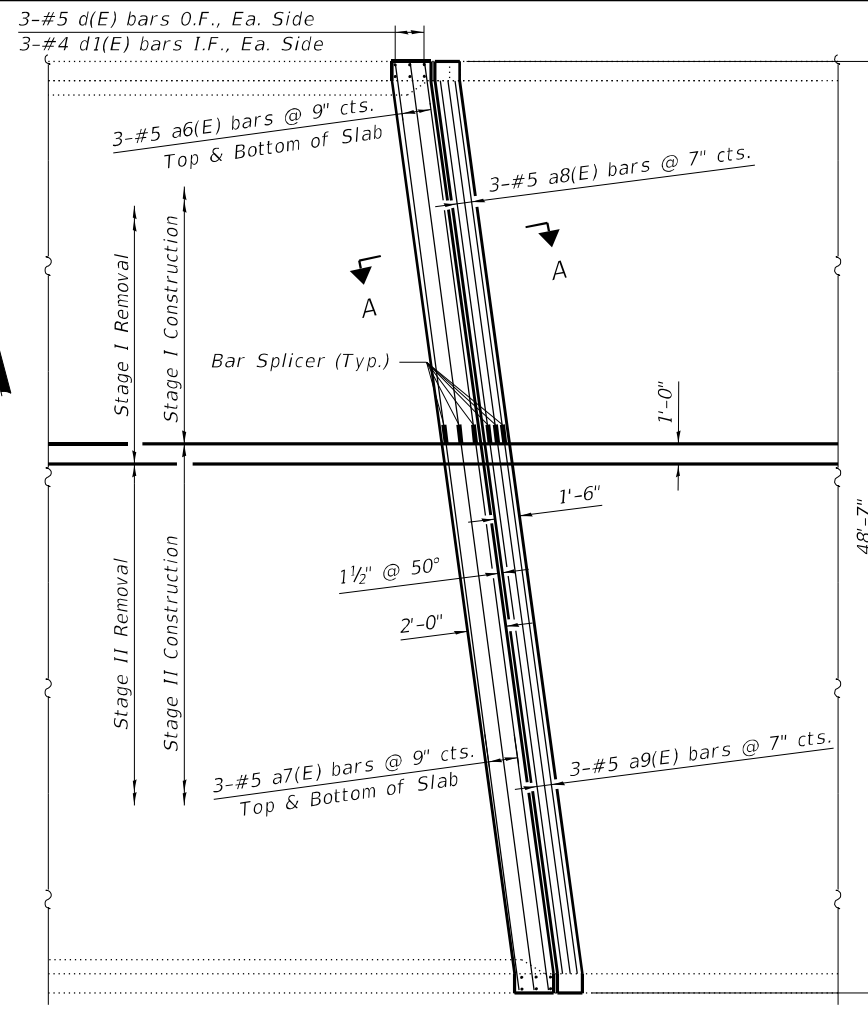
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	31
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

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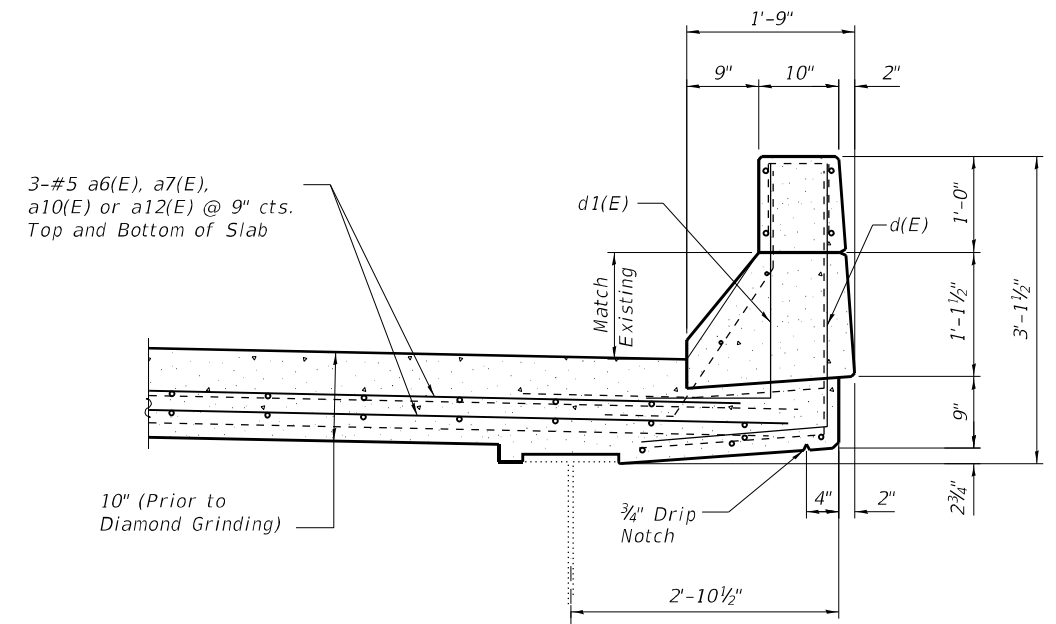


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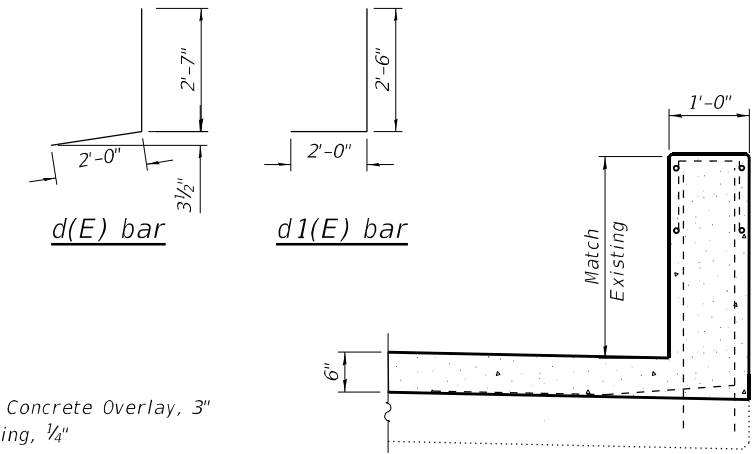
PLAN



SN 041-0083 EAST ABUTMENT



SECTION AT PARAPET

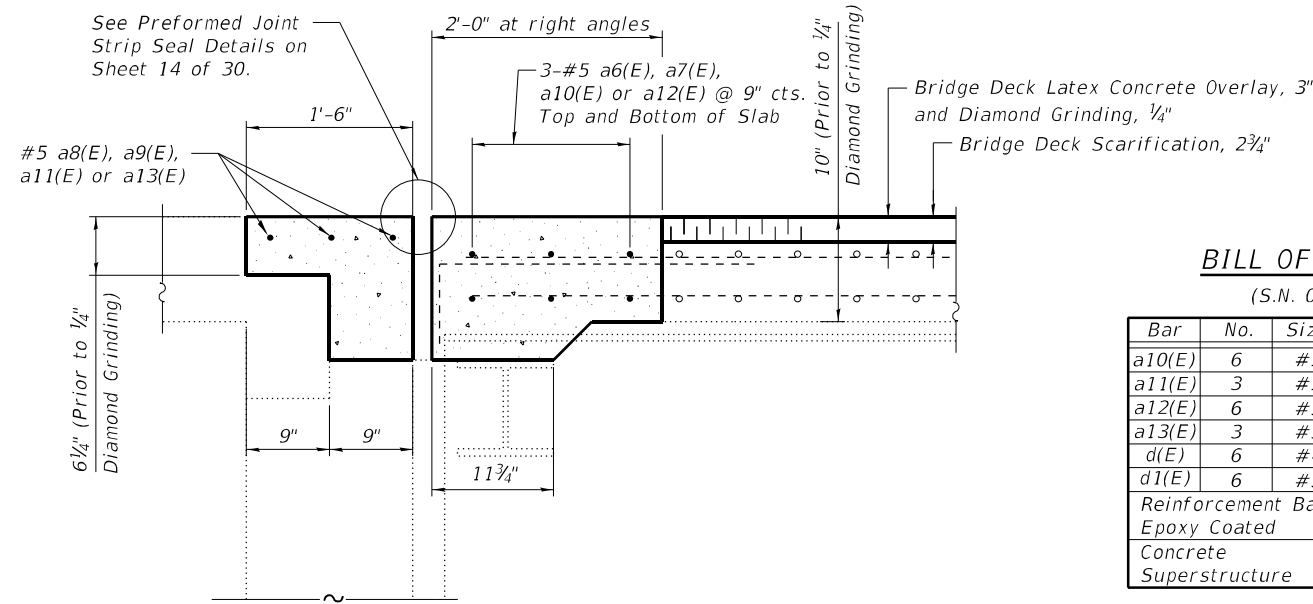


SECTION AT HATCH BLOCK/WING

NOTES:

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.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be reattached. The cost of this work shall be included in Concrete Superstructures.



SECTION A-A

BILL OF MATERIAL

(S.N. 041-0084)

Bar	No.	Size	Length	Shape
a10(E)	6	#5	19'-1"	—
a11(E)	3	#5	19'-1"	—
a12(E)	6	#5	20'-10"	—
a13(E)	3	#5	20'-10"	—
d(E)	6	#4	4'-7"	┘
d1(E)	6	#5	4'-6"	┘
Reinforcement Bars, Epoxy Coated			Pound	440
Concrete Superstructure			Cu. Yd.	7.1

BILL OF MATERIAL

(S.N. 041-0083)

Bar	No.	Size	Length	Shape
a6(E)	6	#5	19'-1"	—
a7(E)	6	#5	28'-6"	—
a8(E)	3	#5	19'-1"	—
a9(E)	3	#5	28'-6"	—
d(E)	6	#4	4'-7"	┘
d1(E)	6	#5	4'-6"	┘
Reinforcement Bars, Epoxy Coated			Pound	500
Concrete Superstructure			Cu. Yd.	8.0

Reinforcement bars designated (E) shall be epoxy coated.



USER NAME =	DESIGNED -	REVISED -
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

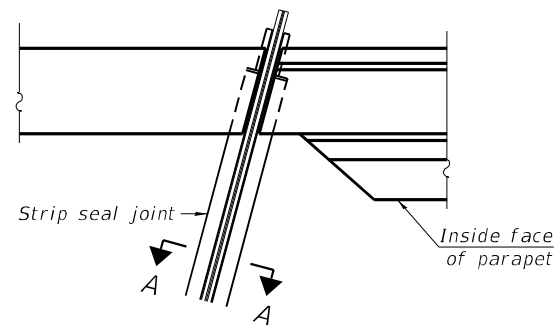
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT CONCRETE SUPERSTRUCTURE
 S.N. 041-0083 (EB) & S.N. 041-0084 (WB)

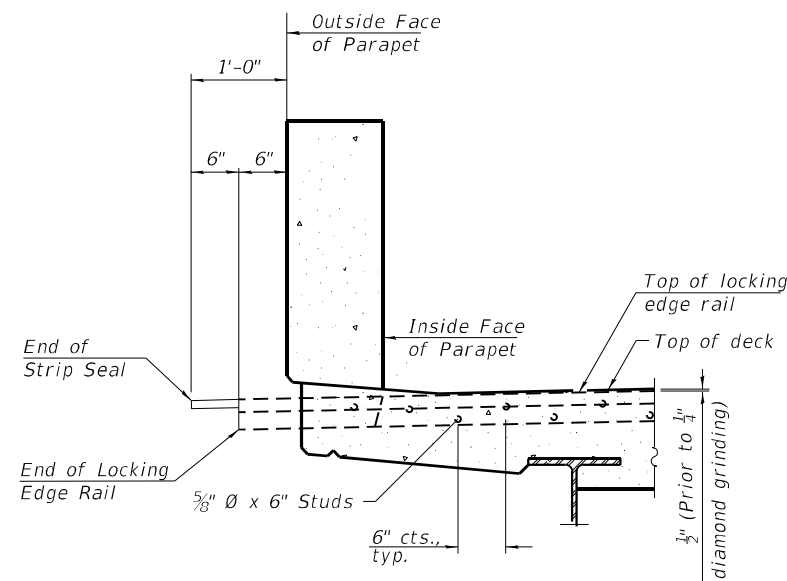
SHEET 13 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	32
CONTRACT NO. 78917				

ILLINOIS FED. AID PROJECT

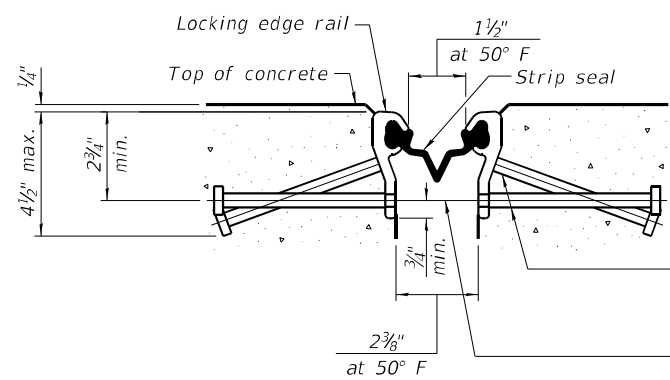


PLAN AT PARAPET



ELEVATION AT PARAPET

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 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.

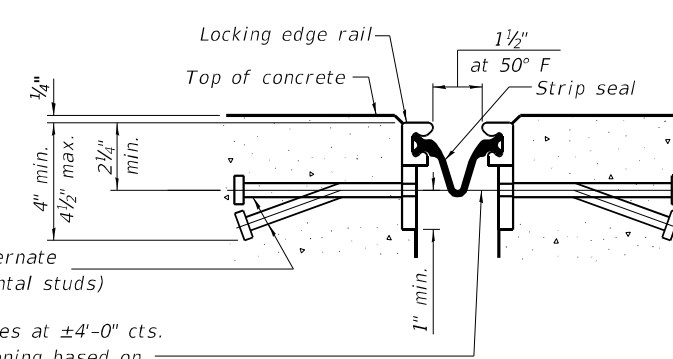


SHOWING ROLLED RAIL JOINT

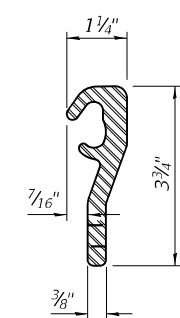
* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

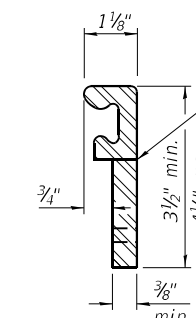
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SHOWING WELDED RAIL JOINT



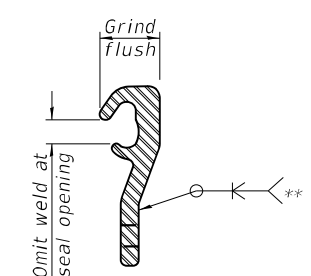
ROLLED (EXTRUDED) RAIL



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

Structure No.	Item	Unit	Total
041-0083	Preformed Joint Strip Seal	Foot	104
041-0084	Preformed Joint Strip Seal	Foot	87

MODEL: Default
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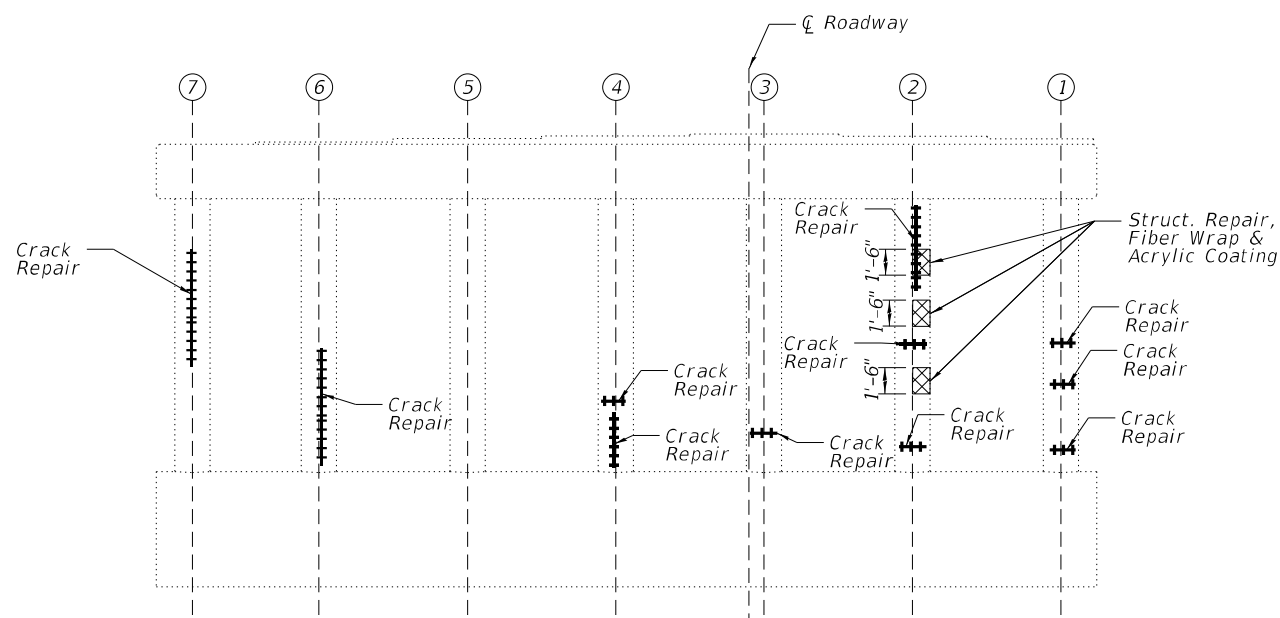


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STATE OF ILLINOIS
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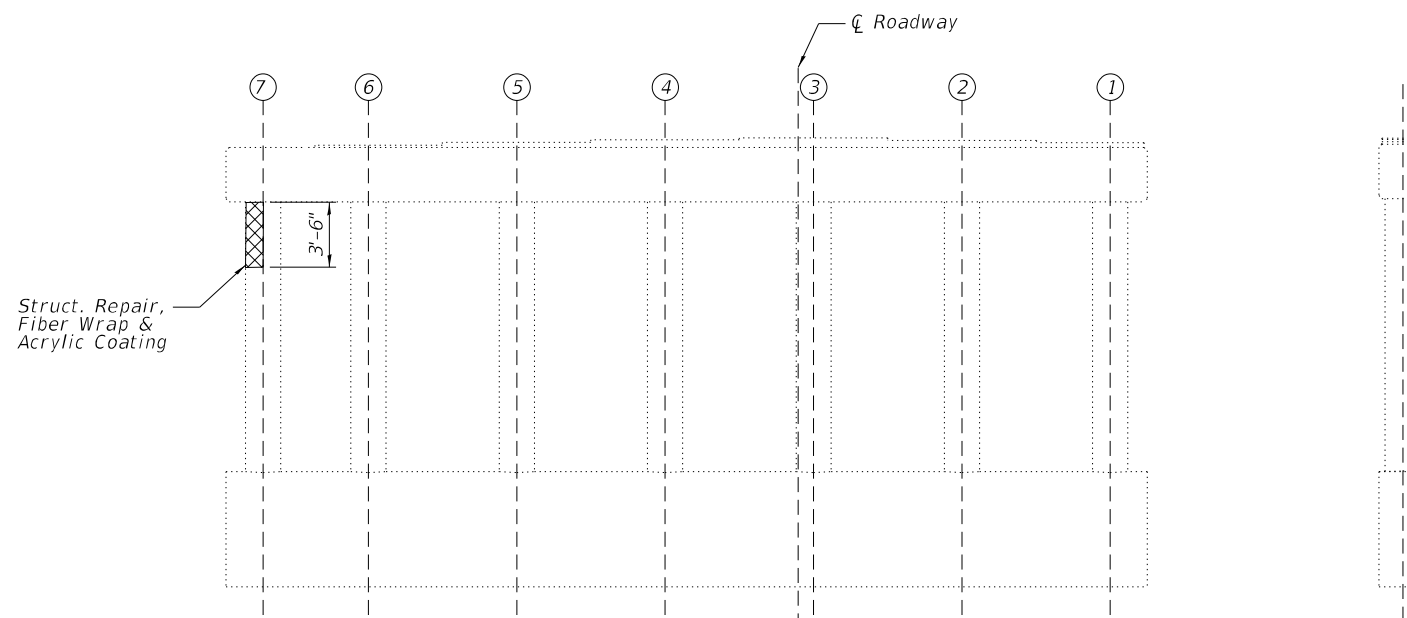
PREFORMED JOINT STRIP SEAL
 S.N. 041-0083 (EB) & S.N. 041-0084 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	33
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



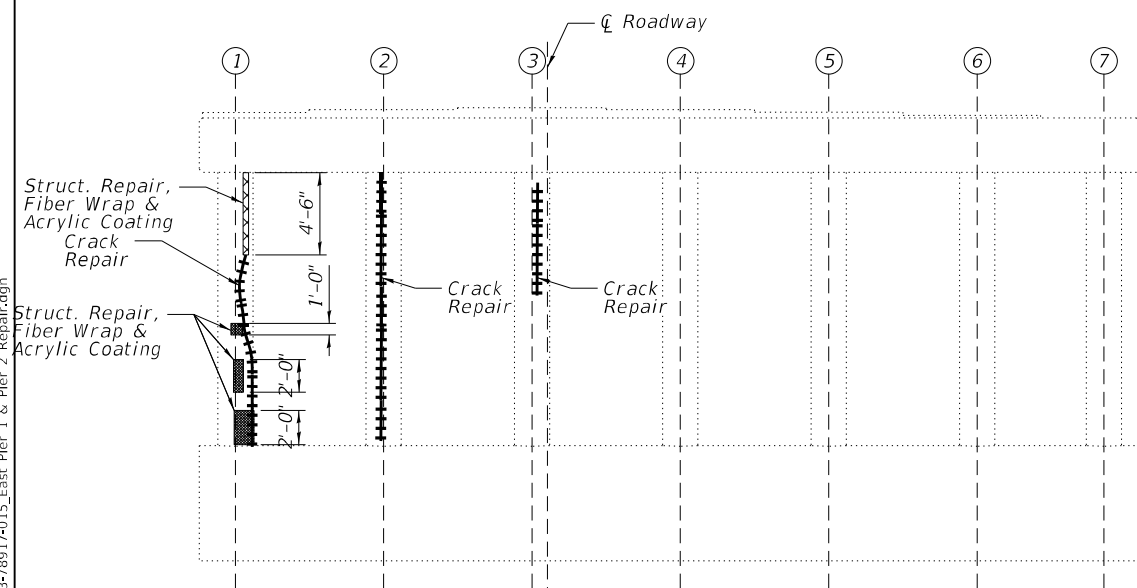
PIER 1 ELEVATION

(Looking West)



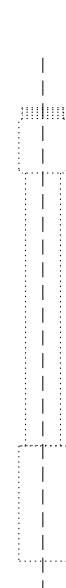
PIER 1 ELEVATION

(North Face)



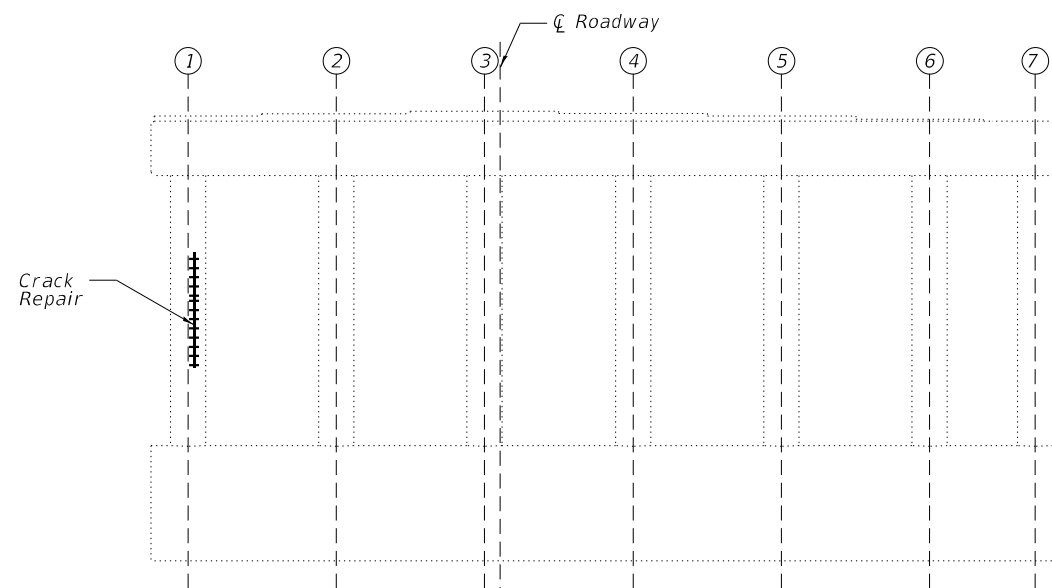
PIER 1 ELEVATION

(Looking East)



PIER 1 ELEVATION

(South Face)



PIER 2 ELEVATION

(Looking West)

PIER 2 ELEVATION

(North Face)

Crack Repair

NOTES:

The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.

Areas on columns designated Structural Repair of Concrete (Depth Equal to or Less than 5 Inches) with Fiber Wrap and Acrylic Coat shall have Fiber Wrap and Acrylic Coat applied around entire circumference of column to the depth shown.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	14
Epoxy Crack Injection	Foot	103
Fiber Wrap	Sq. Ft.	101
Acrylic Coating	Sq. Yd.	13

- Structural Repair of Concrete, (Depth Equal to or Less than 5 Inches), Fiber Wrap & Acrylic Coating
- Epoxy Crack Injection

MODEL: Default
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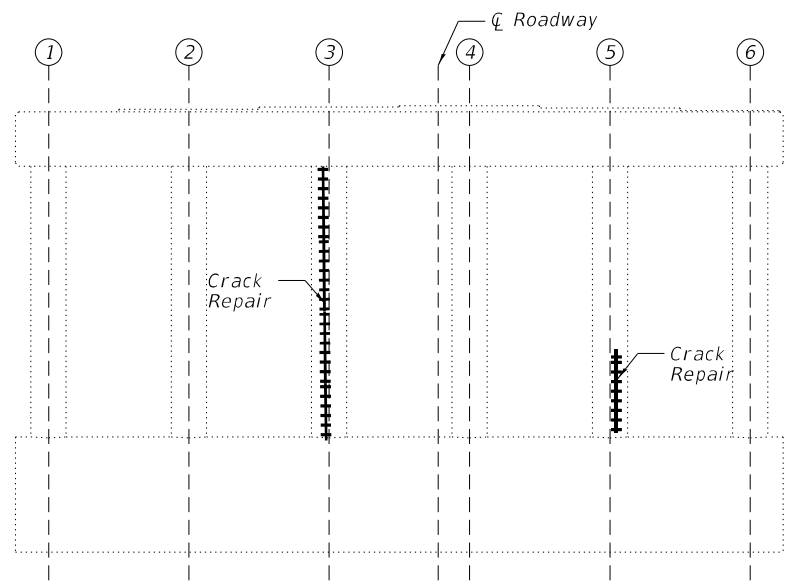


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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIR, PIER 1 AND PIER 2
STRUCTURE NO. 041-0083 (EB)**

F.A.I. RTE. 64	SECTION 041-9VB-2	COUNTY JEFFERSON	TOTAL SHEETS 49	SHEET NO. 34
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				



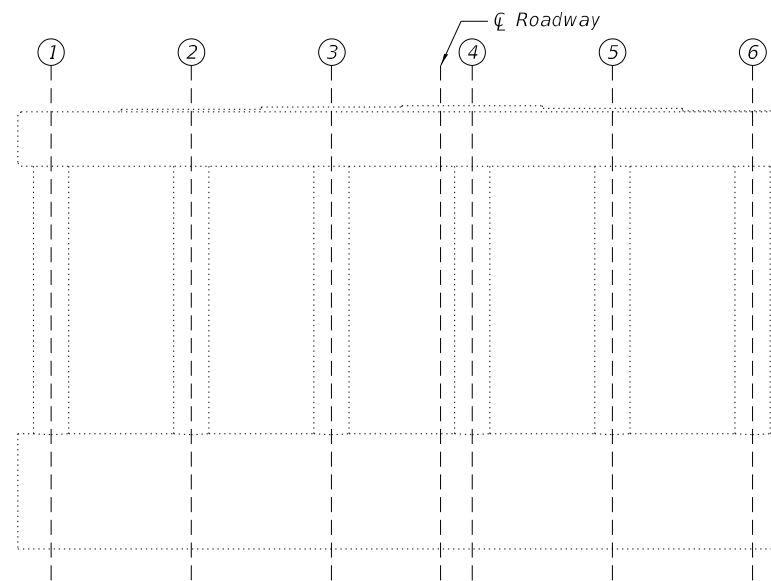
PIER 1 ELEVATION

(Looking East)



PIER 1 ELEVATION

(North Face)



PIER 2 ELEVATION

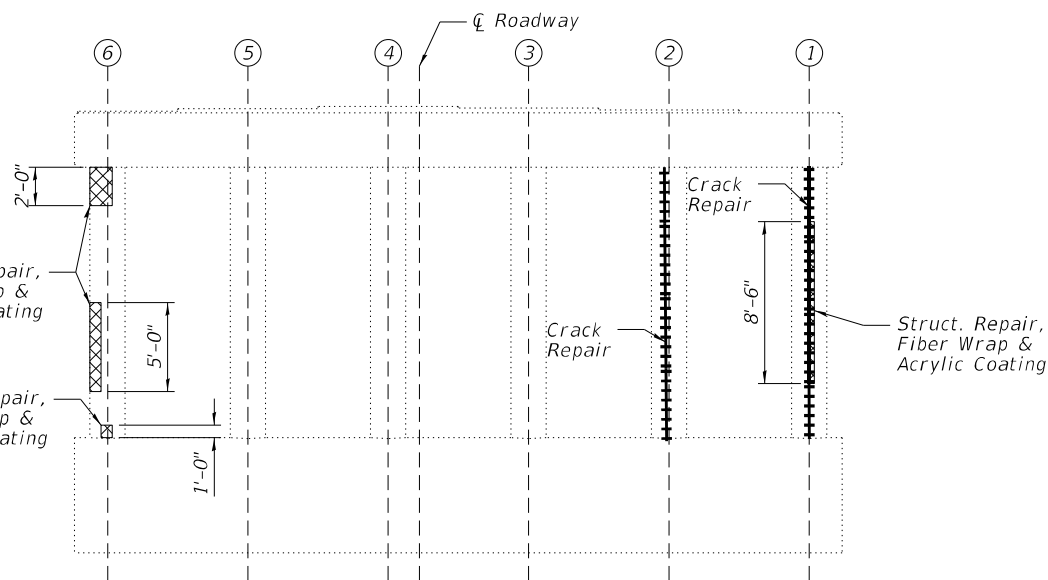
(Looking East)



PIER 2 ELEVATION

(North Face)

MODEL: Default
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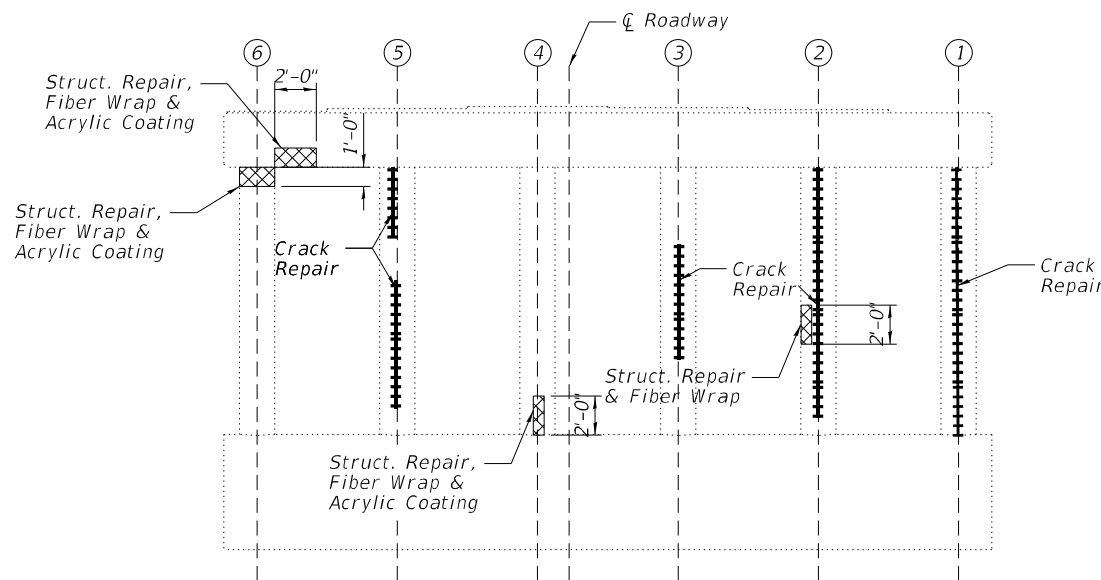
PIER 1 ELEVATION

(Looking West)



PIER 1 ELEVATION

(South Face)



PIER 2 ELEVATION

(Looking West)



PIER 2 ELEVATION

(South Face)

- Structural Repair of Concrete, (Depth Equal to or Less than 5 Inches), Fiber Wrap & Acrylic Coating
- Epoxy Crack Injection

NOTES:

The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.

Areas on columns designated Structural Repair of Concrete (Depth Equal to or Less than 5 Inches) with Fiber Wrap and Acrylic Coat shall have Fiber Wrap and Acrylic Coat applied around entire circumference of column to the depth shown.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	24
Epoxy Crack Injection	Foot	92
Fiber Wrap	Sq. Ft.	141
Acrylic Coating	Sq. Yd.	16



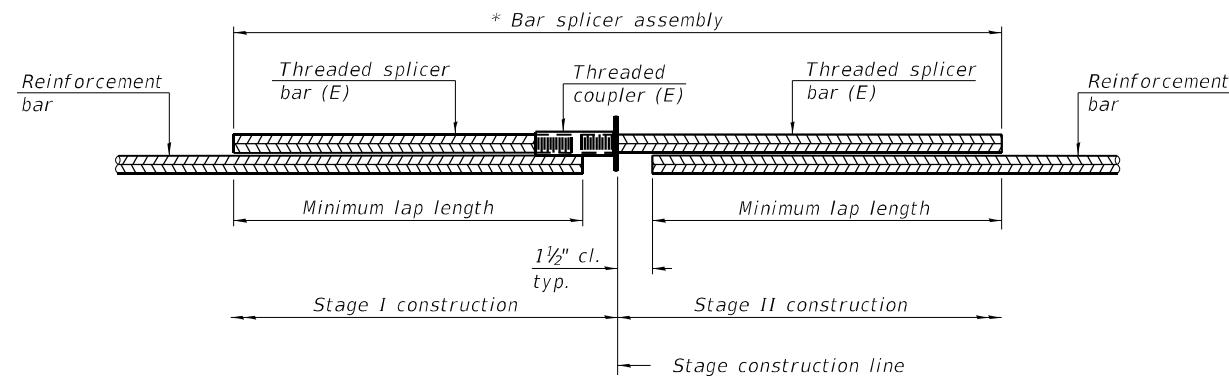
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIR, PIER 1 & PIER 2
STRUCTURE NO. 041-0084 (WB)**

SHEET 16 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	35
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

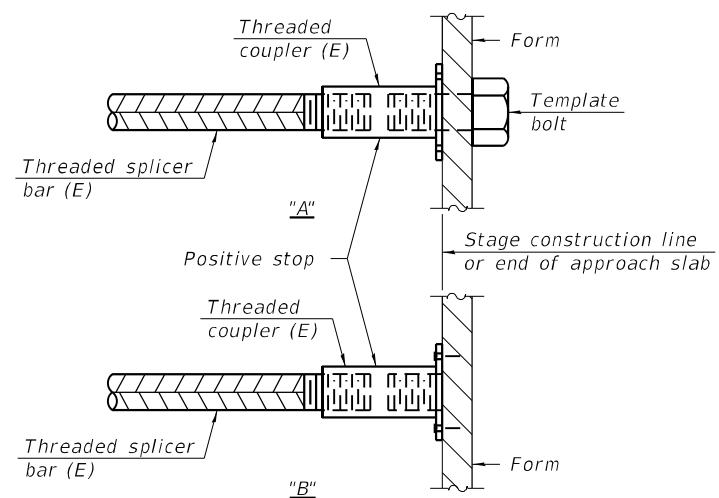


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

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.

Structure No.	Location	Bar size	No. assemblies required	Minimum lap length
041-0083	West Deck End	#5	10	4'-10"
041-0083	East Deck End	#5	9	4'-10"
041-0084	West Deck End	#5	10	4'-10"
041-0084	East Deck End	#5	9	4'-10"

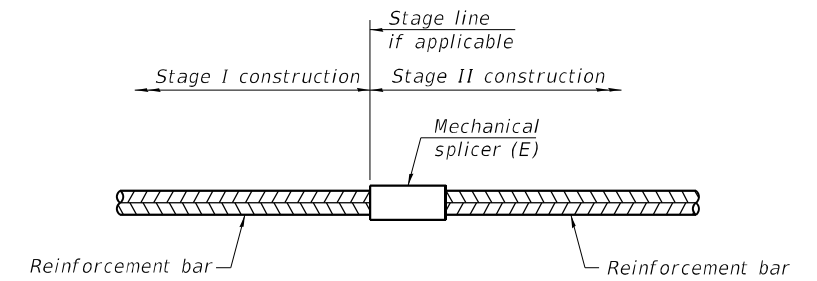


INSTALLATION AND SETTING METHODS

"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

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.

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BSD-1

1-1-2020



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

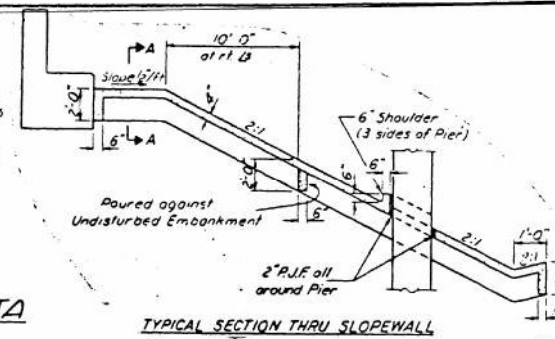
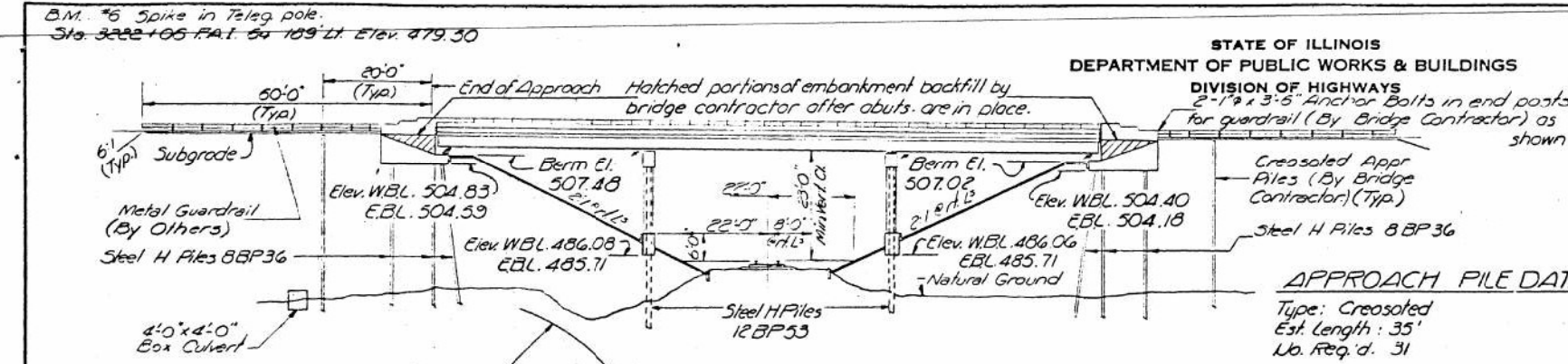
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY & MECHANICAL SPLICER DETAILS
S.N. 041-0083 (EB) & S.N. 041-0084 (WB)

SHEET 17 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	36
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	SUBJECT	TOTAL SHEETS	SHEET NO.
64	41-9	JEFFERSON	50	9



APPROACH PILE DATA
Type: Creosoted
Est. Length: 35'
No. Req'd: 31

ILLINOIS CENTRAL R.R. BUILT BY STATE OF ILLINOIS
FAI. RT. 64 SEC. 41-9VB-2
P.A. PROJ. I-64-3()
LOADING HS 20 & ALT.

NAME PLATE
(See Std. 213)

South

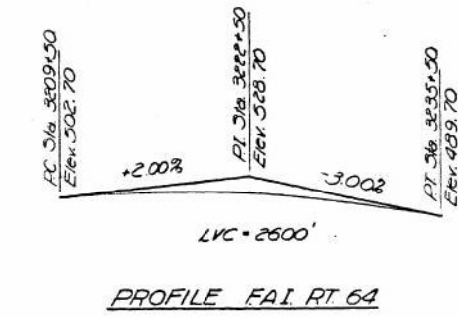
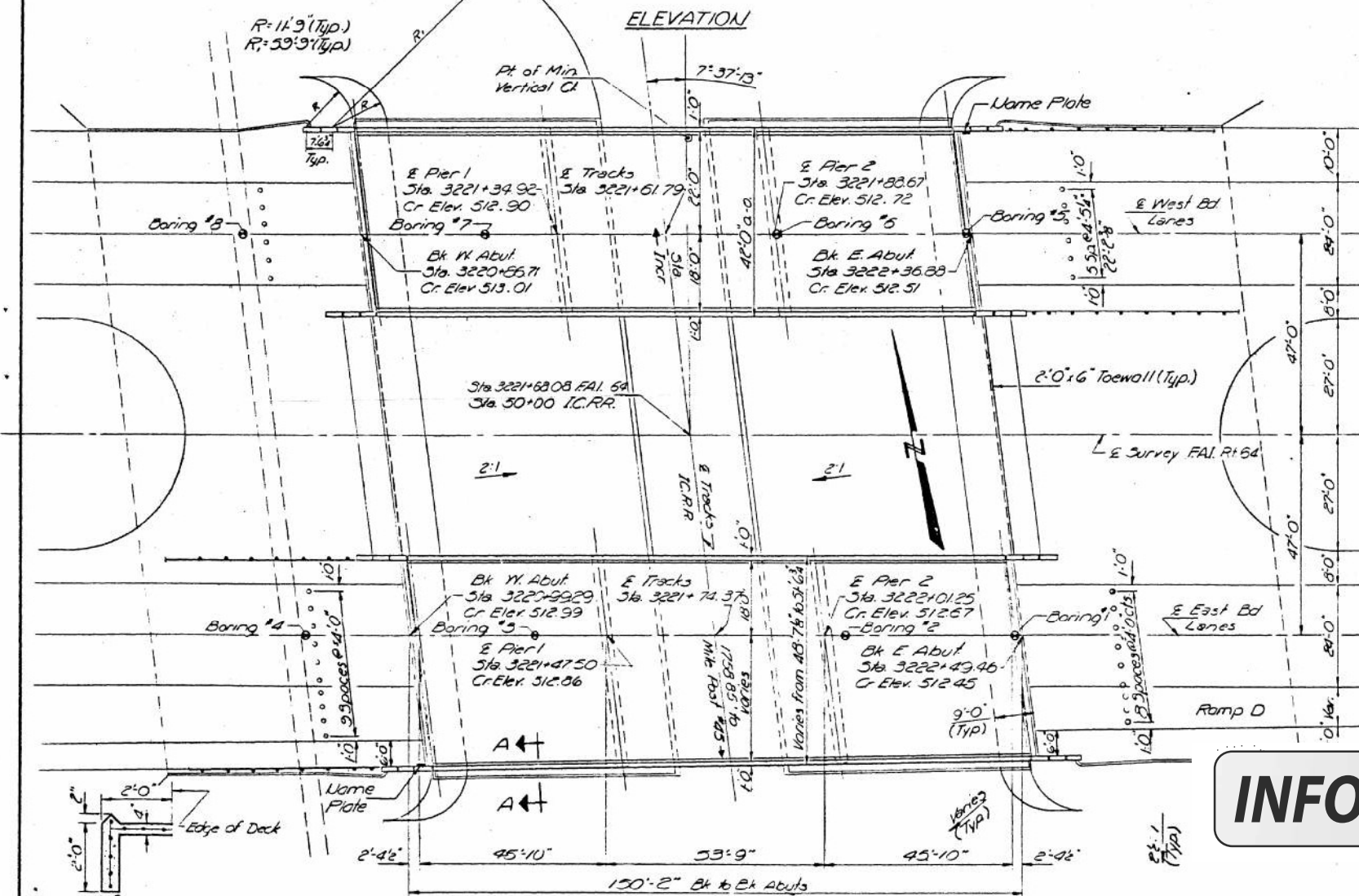
West Abut. Elev. 485.09	East Abut. Elev. 485.12	West Pier Elev. 485.40	East Pier Elev. 485.44	West Rail Elev. 485.77	East Rail Elev. 485.81	West Abut. Elev. 486.12	East Abut. Elev. 486.16	West Pier Elev. 486.48	East Pier Elev. 486.48
48	49	50	51	52		48	49	50	51

North

PROFILE - TRACK

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
Fasteners shall be high strength bolts. Bolts 3/4"; open holes 3/16", unless otherwise noted.
Calculated weight of Structural Steel = 303840 Lbs.
Diaphragm connections may be adapted to shop welding subject to approval by the Engineer.
The Basic Lead Silica Chromate paint system shall be used for shop and field painting of structural steel.
Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
Anchor bolts shall be set before bolting diaphragms over supports.
Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 sq. ft.
The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments and piers.
The Contractor shall drive 4 Steel test piles one each at West Abutment West Bd. Lanes, Pier 2 West Bd. Lanes, Pier 1 East Bd. Lanes and East Abutment East Bd. Lanes, in a permanent location as directed by the Engineer before ordering the remainder of piles.



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Protective Coat	Sq Yds			1660
Class X Concrete	Cu Yds	410.0	367.0	777.0
Structural Steel	L.S.	L.S.		L.S.
Aluminum Railing	Lin Ft.	588		588
Reinforcement Bars	Lbs.	106770	22600	129370
Creosoted Piles (12BP53)	Lin Ft.			1085
Steel Piles 8BP36	Lin Ft.		2109	2109
Test Piles Steel 8BP36	Each		2	2
Steel Piles 12BP53	Lin Ft.		1440	1440
Test Piles Steel 12BP53	Each		2	2
Slope Wall 4"	Sq Yds			2307
Bridge Seat Sealant	L.S.		L.S.	L.S.
Name Plates	Each		2	2

Applied at West Abutments only.

INFORMATION ONLY

DESIGN STRESSES

f_c = 1200 psi - Deck Slab
f_c = 1400 psi - Curb, Parapet, Sub
f_s = 20,000 psi - (Reinforcement)
f_s = 20,000 psi - (Structure)
v_c = 75 psi - (Floorings)
n = 10
Allowable & a 1/2 in. Composite
25' x 7' future wearing surface
LOADING HS 20 & ALT



GENERAL PLAN & ELEVATION
P.A. PROJ. I-64-3()
OVER ILLINOIS CENTRAL R.R.
FAI RT. 64 SEC. 41-9VB-2
JEFFERSON COUNTY
STATION 3221+61.03

SECTION A-A

DESIGNED	A. J. Williams
CHECKED	R. J. G. K.
DRAWN	J. M. Heunisse
CHECKED	R. J. G. K.

EXAMINED
PASSED
APPROVED

Note
Those spans which will have railroad signal or communication lines under them, shall have the deck drains spaced to clear the cross arms of those wire signal poles by 10" as determined in the field by the Engineer. No deck drains permitted in span over railroad tracks.

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USER NAME =
DESIGNED -
CHECKED -
DRAWN -
CHECKED -

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

REVISED -
REVISED -
REVISED -
REVISED -

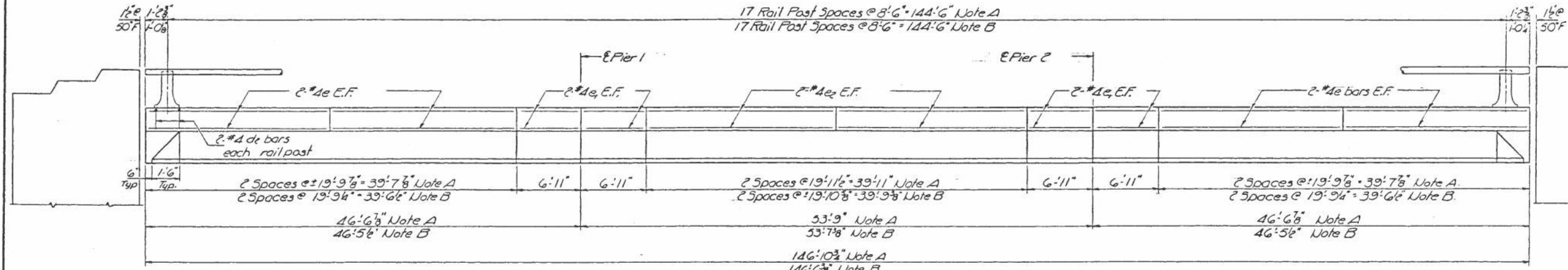
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
S.N. 041-0083 (EB) & S.N. 041-0084 (WB)

SHEET 18 OF 30 SHEETS

FAI. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	37

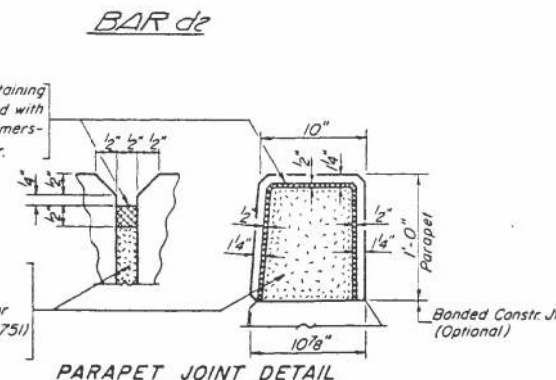
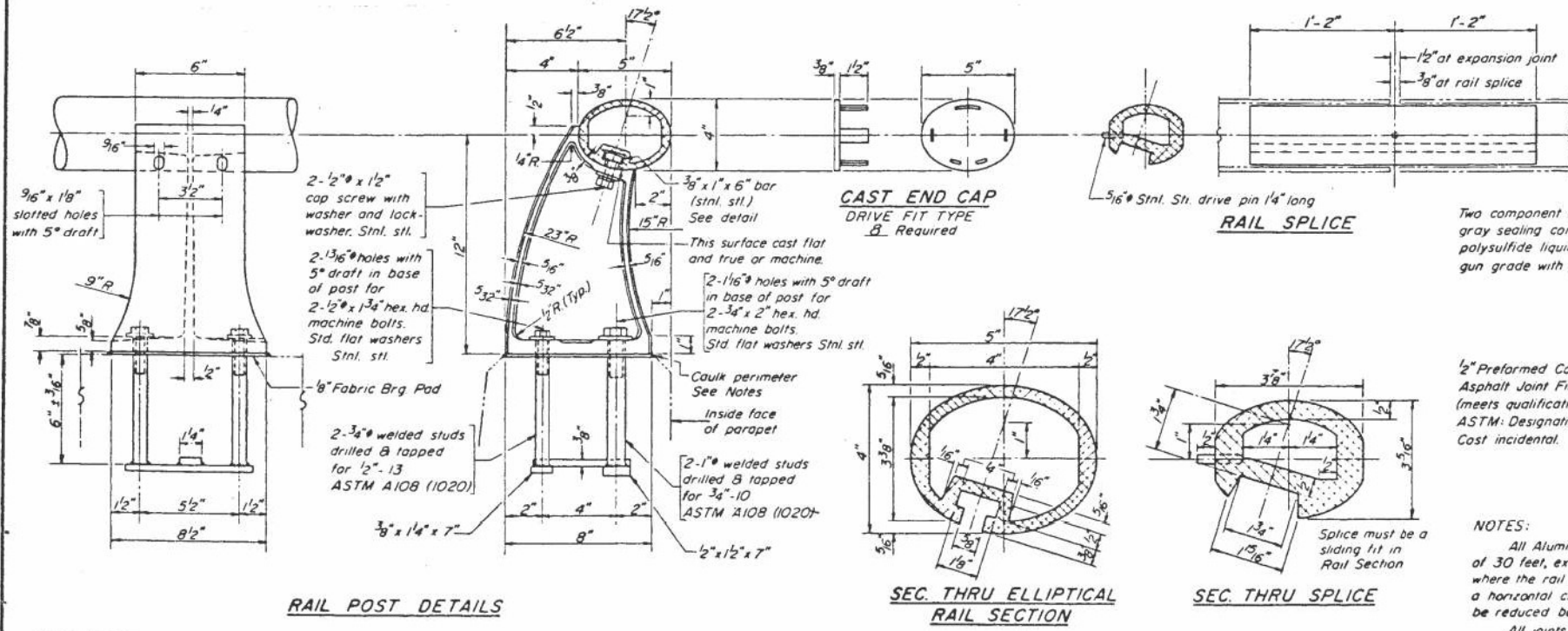
CONTRACT NO. 78917
ILLINOIS FED. AID PROJECT



ELEVATION
All dimensions measured along inside face of parapet

Note A:
These dimensions for both parapets of West Bd. Bridge and North parapet of East Bd. Bridge.

Note B:
These dimensions for South parapet of East Bd. Bridge.



**PARAPETS & RAILS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
e	64	#4	19'-6"	—
e ₁	64	#4	6'-8"	—
e ₂	32	#4	19'-8"	—
d ₂	144	#4	2'-1"	□
Reinforcement Bars		Lbs.	1740	
Class X Concrete		Cu Yds	18.9	
Aluminum Railing		Lin Ft	588	

ALUMINUM RAILING
FAI RT. 64 SEC. 41-9VB-2
JEFFERSON COUNTY
STA. 3221+68.08

NOTES:
All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.
All joints in rail shall be spliced per detail.
Provide 1-8" and 2-1/2" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.
Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.
Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6.

DESIGNED *A.Y. Hluyyut*
CHECKED *Rac. G.K.*
DRAWN *LD*
CHECKED *Rac. G.K.*

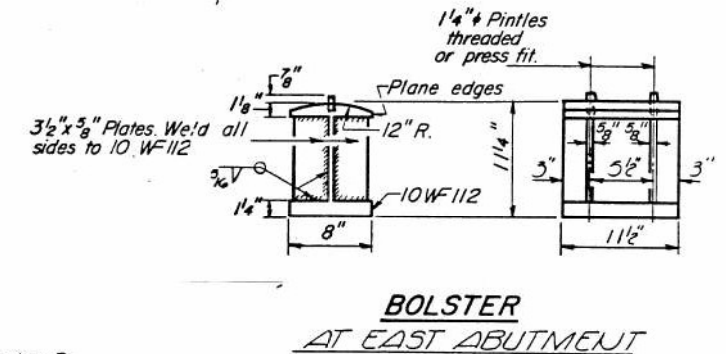
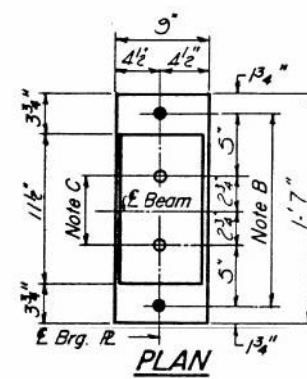
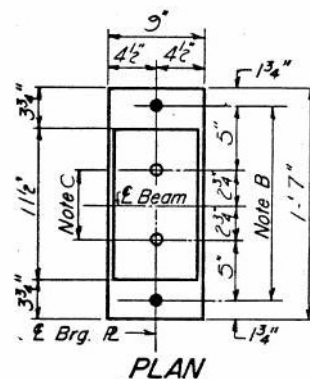
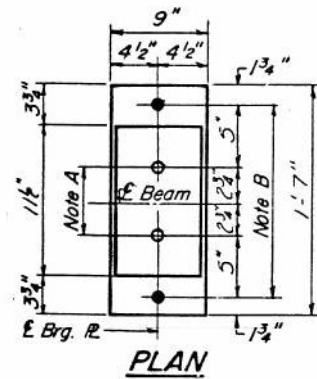
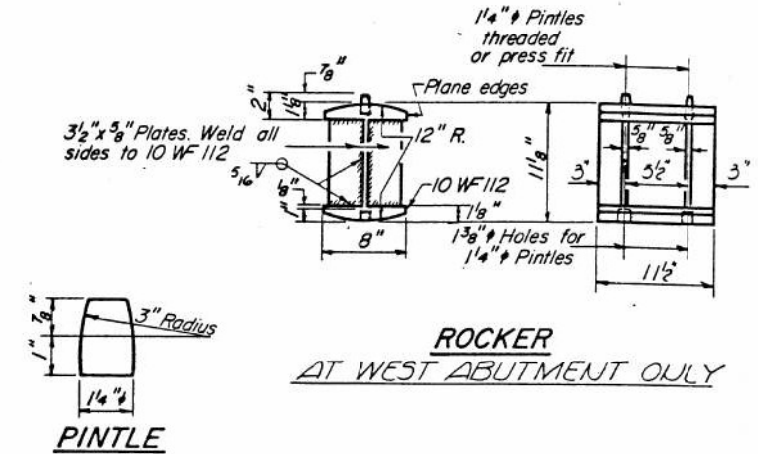
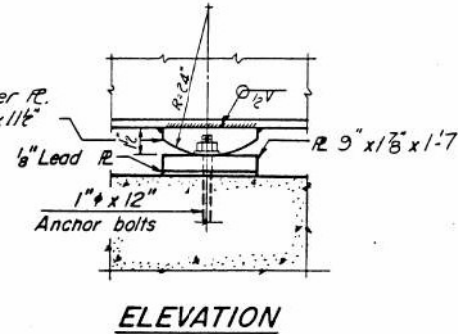
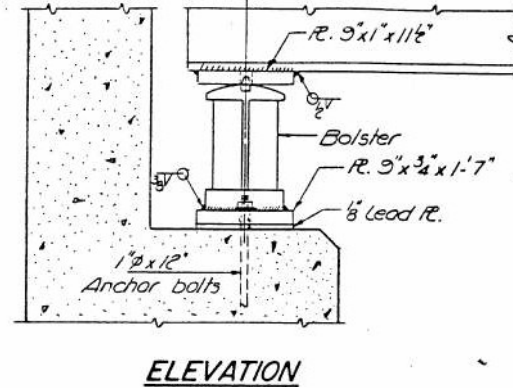
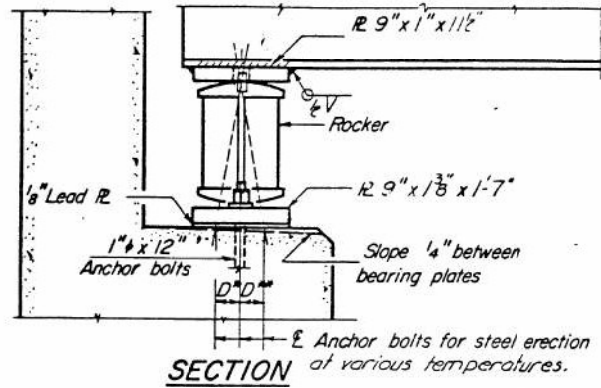
EXAMINED *SEPT 8 2010*
PASSED
APPROVED

INFORMATION ONLY

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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
41-9	VB-2	JEFFERSON	38	20	20 SHEETS



AT WEST ABUTMENT
EXPANSION

AT EAST ABUT.
FIXED

AT PIERS 1&2
FIXED

AT EAST ABUTMENT

NOTE A
1 3/8" Holes - 1" deep in top R.
for pintles. Thread or press fit
pintles into bottom R.

NOTE B
1 1/2" Holes for 1" anchor bolts.
2 1/2" x 2 1/2" x 5/16" R. Washers
under nut.

NOTE C
1 3/8" Holes, 1" deep in top R.
only for 1 1/4" pintles.

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

- a) D* (Side of brg. away from fixed brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50°F.
- D** (Side of brg. toward fixed brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50°F.
- b) After beams have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

DESIGNED <i>A. K. K...</i>	EXAMINED <i>A. R. M...</i>
CHECKED Rao.G.K.	PASSED
DRAWN P.G. Barnett	APPROVED
CHECKED Rao.G.K.	

I-2-B 9-1-65

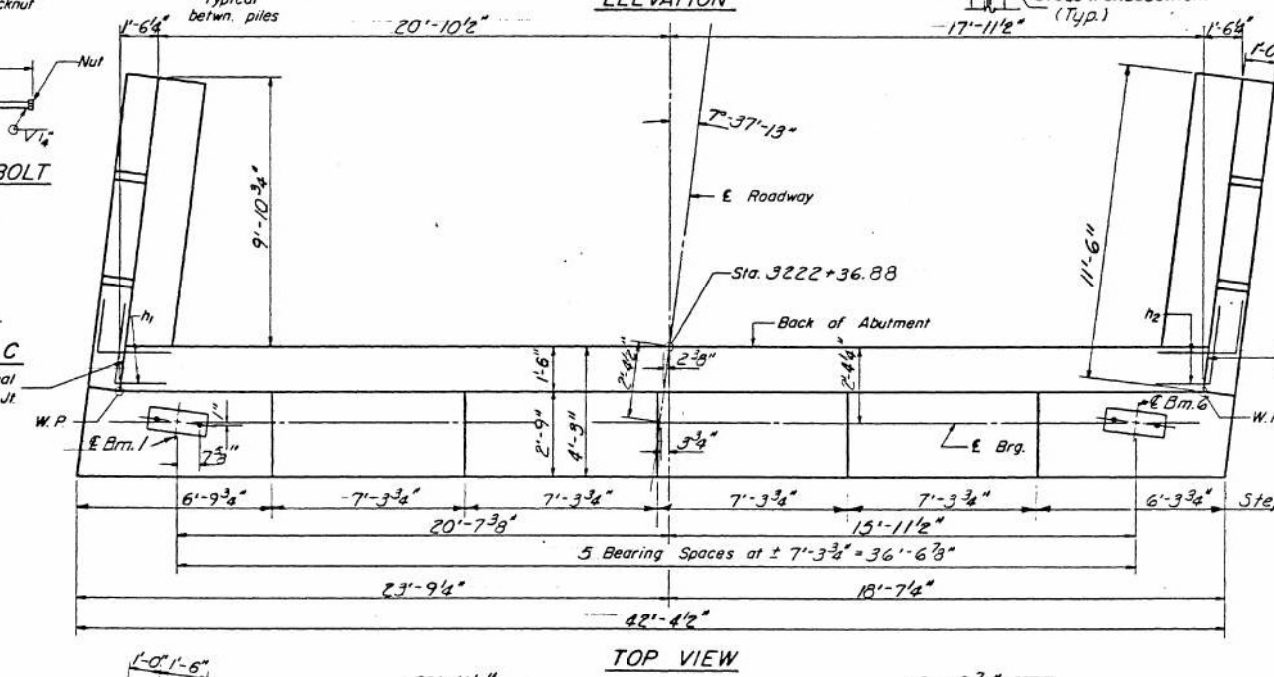
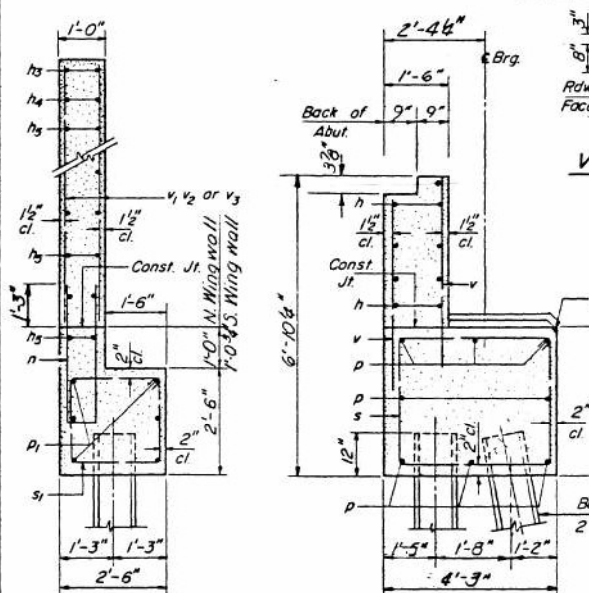
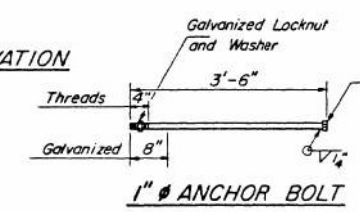
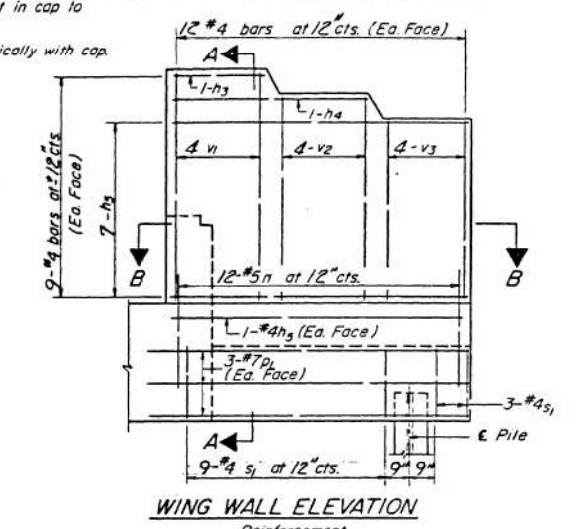
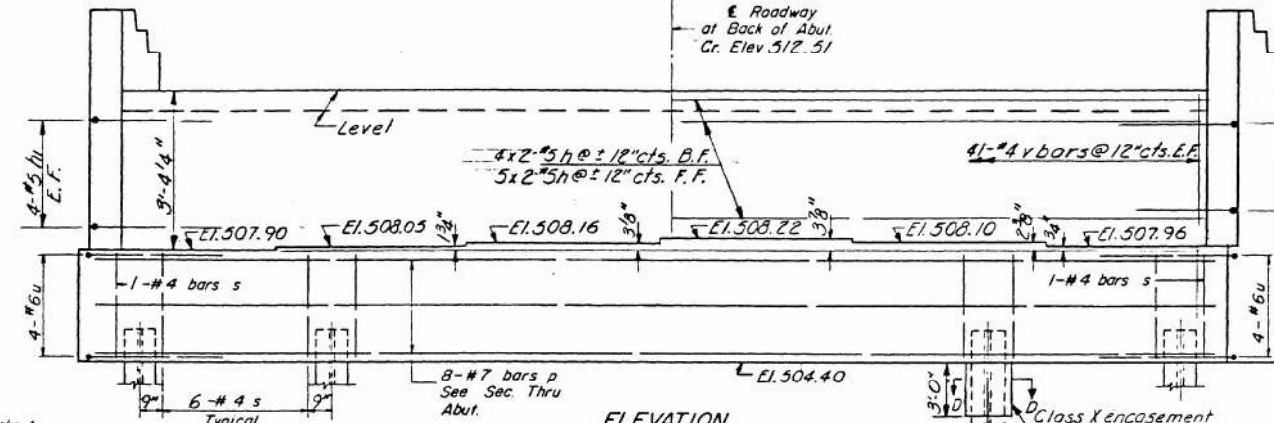
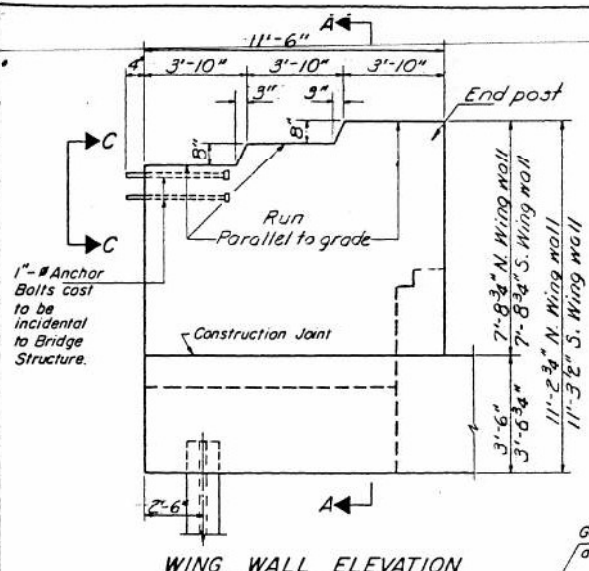
INFORMATION ONLY

BEARING DETAILS
FA I RT 64 SEC 41-9VB-2
JEFFERSON COUNTY
STA. 3221+68.08

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41-9	VB-2	JEFFERSON	38	22
SHEET NO. 14				
20 SHEETS				

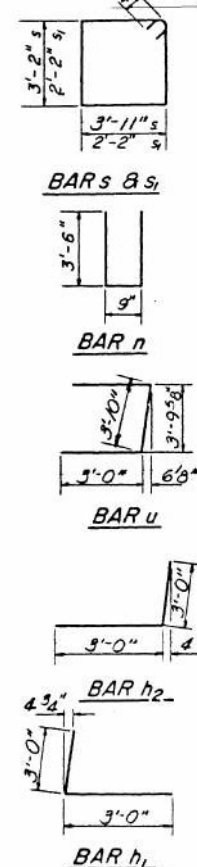
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.



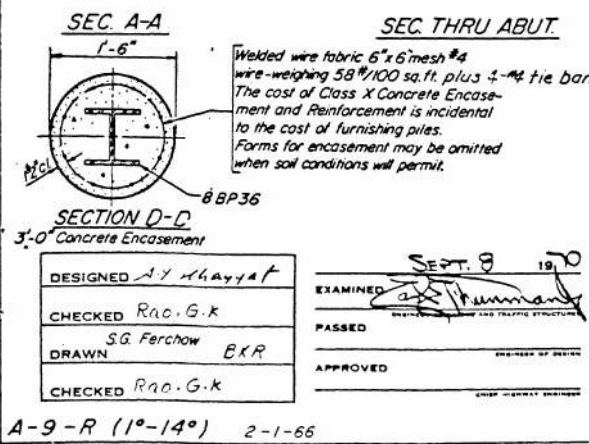
INFORMATION ONLY

ONE ABUTMENT
BILL OF MATERIAL

Bar	No	Size	Length	Shape
h	18	#5	20'-0"	—
h1	8	#5	6'-0"	L
h2	8	#5	6'-0"	—
h3	4	#4	3'-7"	—
h4	4	#4	7'-5"	—
h5	32	#4	11'-3"	—
n	24	#5	7'-9"	U
p	8	#7	42'-0"	—
p1	12	#7	11'-6"	—
s	38	#4	14'-11"	□
s1	24	#4	9'-5"	□
u	8	#6	9'-10"	—
v	82	#4	6'-0"	—
v1	16	#4	7'-6"	—
v2	16	#4	6'-10"	—
v3	16	#4	6'-2"	—
Class X Concrete		Cu Yds	427	
Reinforcement Bars		Lbs	3120	
Steel 8BP36 Piles		Lin Ft	522	



PILE DATA
Type Steel 8BP36
Capacity Driven to refusal
Est. Length 33'
No Required 9



EAST ABUTMENT
WEST BOUND LANES
FAI RT. 64 SEC 41-9VE-2
JEFFERSON COUNTY
STA 3221+68.03

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
S.N. 041-0083 (EB) & S.N. 041-0084 (WB)

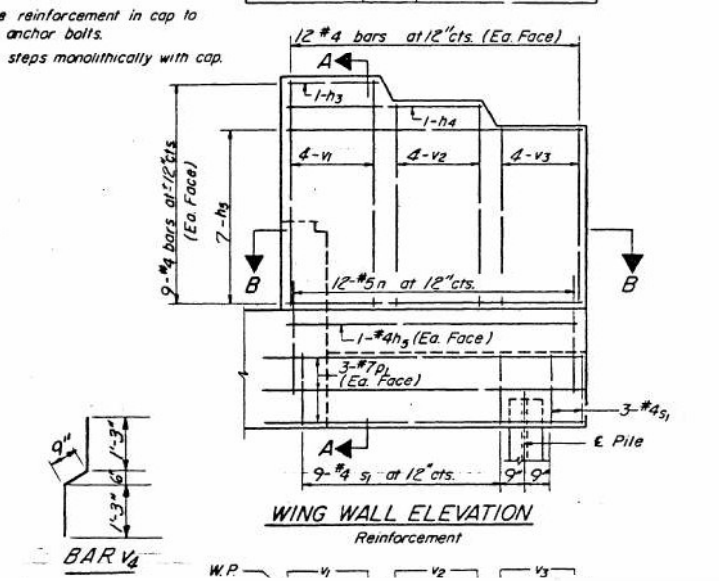
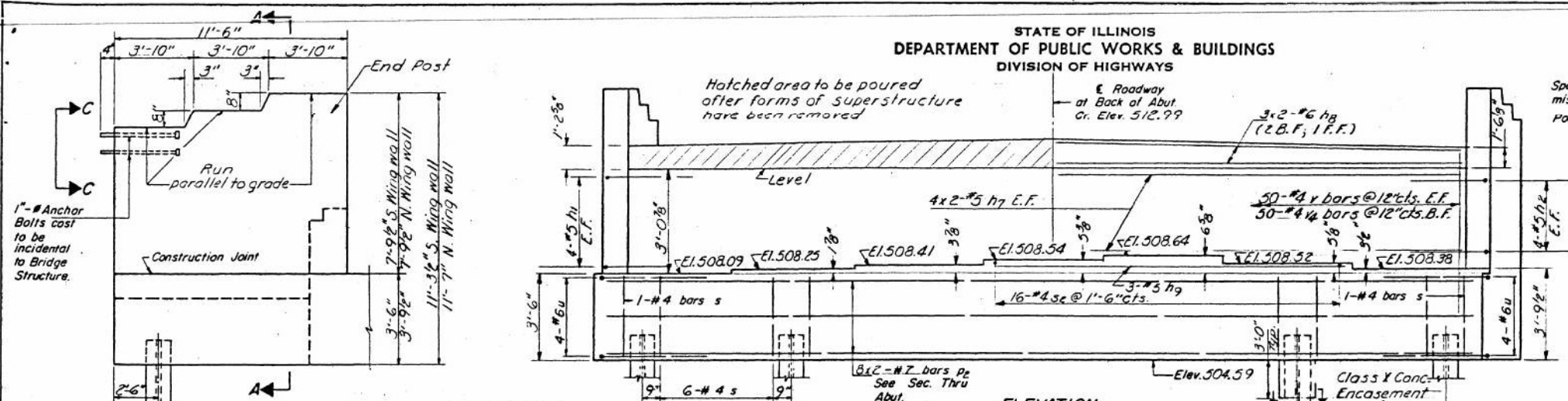
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	42
CONTRACT NO. 78917				
ILLINOIS FED. AID PROJECT				

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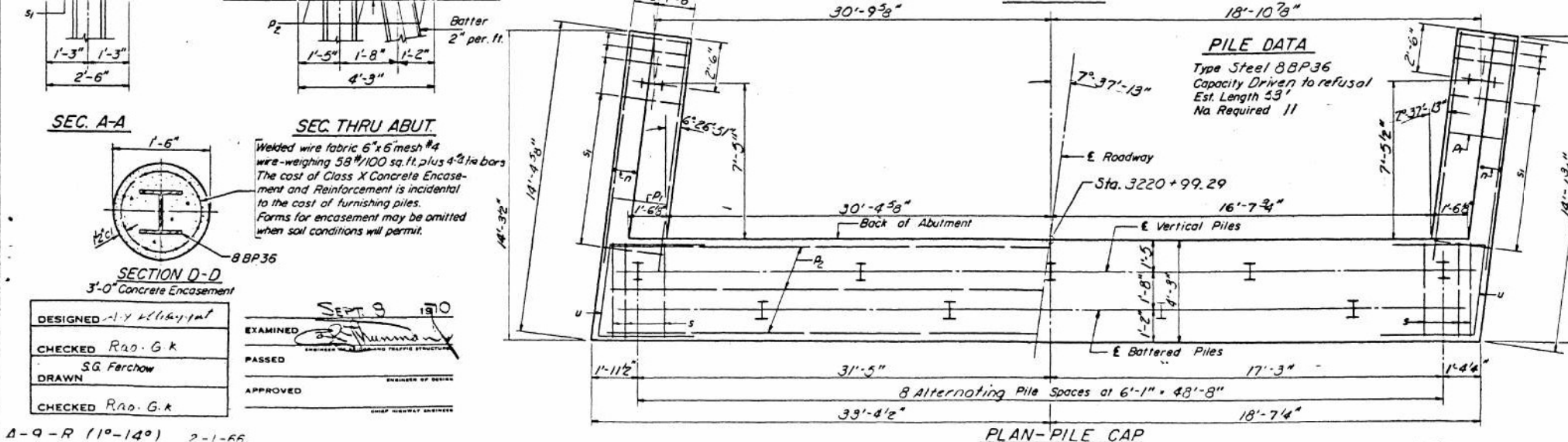
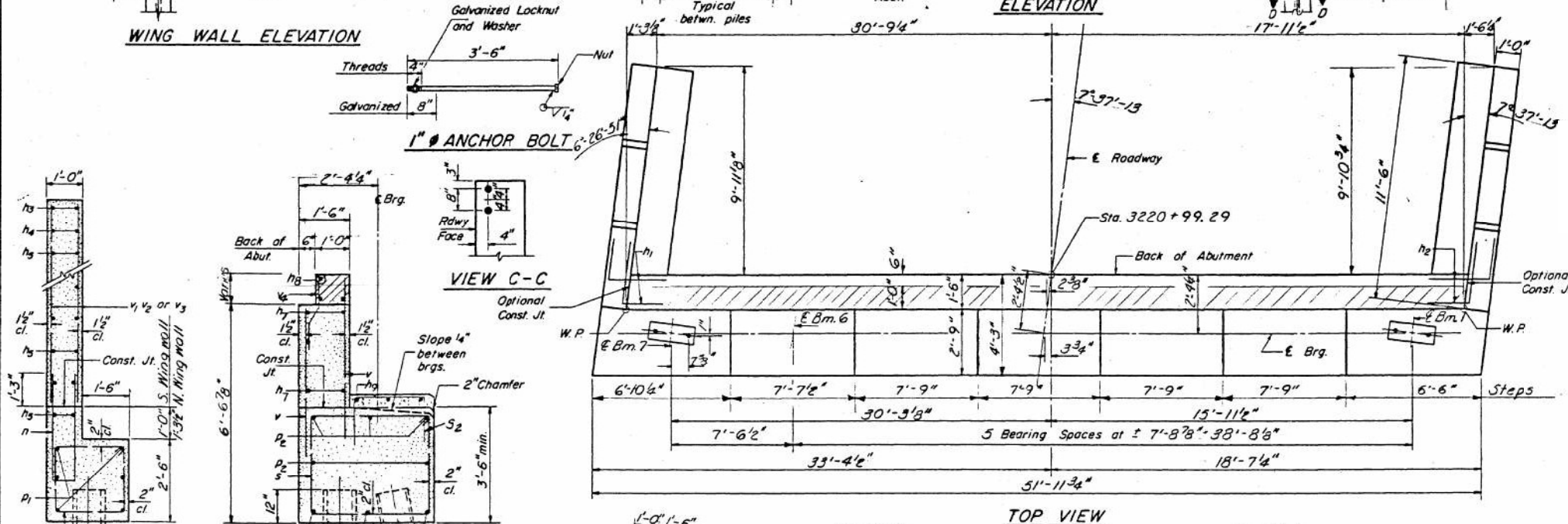
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	SUBJECT	TOTAL SHEETS	SHEET NO.
41-9	VB-2	JEFFERSON	38	23
DATE	DATE	DATE	DATE	DATE
11-64	11-64	11-64	11-64	11-64

SHEET NO. 15
20 SHEETS



INFORMATION ONLY



ONE ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁	8	#5	6'-0"	L
h ₂	8	#5	6'-0"	L
h ₃	4	#4	3'-7"	—
h ₄	4	#4	7'-3"	—
h ₅	32	#4	11'-3"	—
h ₇	16	#5	25'-6"	—
h ₈	8	#6	25'-9"	—
h ₉	3	#5	23'-0"	—
n	24	#5	7'-9"	U
p _e	16	#7	27'-0"	—
p _i	12	#7	11'-6"	—
s	50	#4	14'-11"	□
s ₁	24	#4	9'-5"	□
s ₂	16	#4	5'-6"	□
u	8	#6	9'-10"	□
v	100	#4	6'-0"	—
v ₁	16	#4	7'-6"	—
v ₂	16	#4	6'-10"	—
v ₃	16	#4	5'-2"	—
v ₄	50	#4	3'-3"	—
Class X Concrete Cu Yds 51.1				
Reinforcement Bars Lbs 4010				
Steel Piles Lin Ft 533				

WEST ABUTMENT
EAST BOUND LANES
F.A.I. RT 64 SEC. 41-9VB-2
JEFFERSON COUNTY
STA. 3221+68.08

DESIGNED: A.Y. K. (11/14/10)
CHECKED: RAO, G.K.
DRAWN: SG Ferchow
CHECKED: RAO, G.K.

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

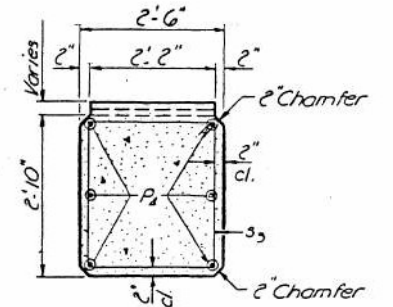
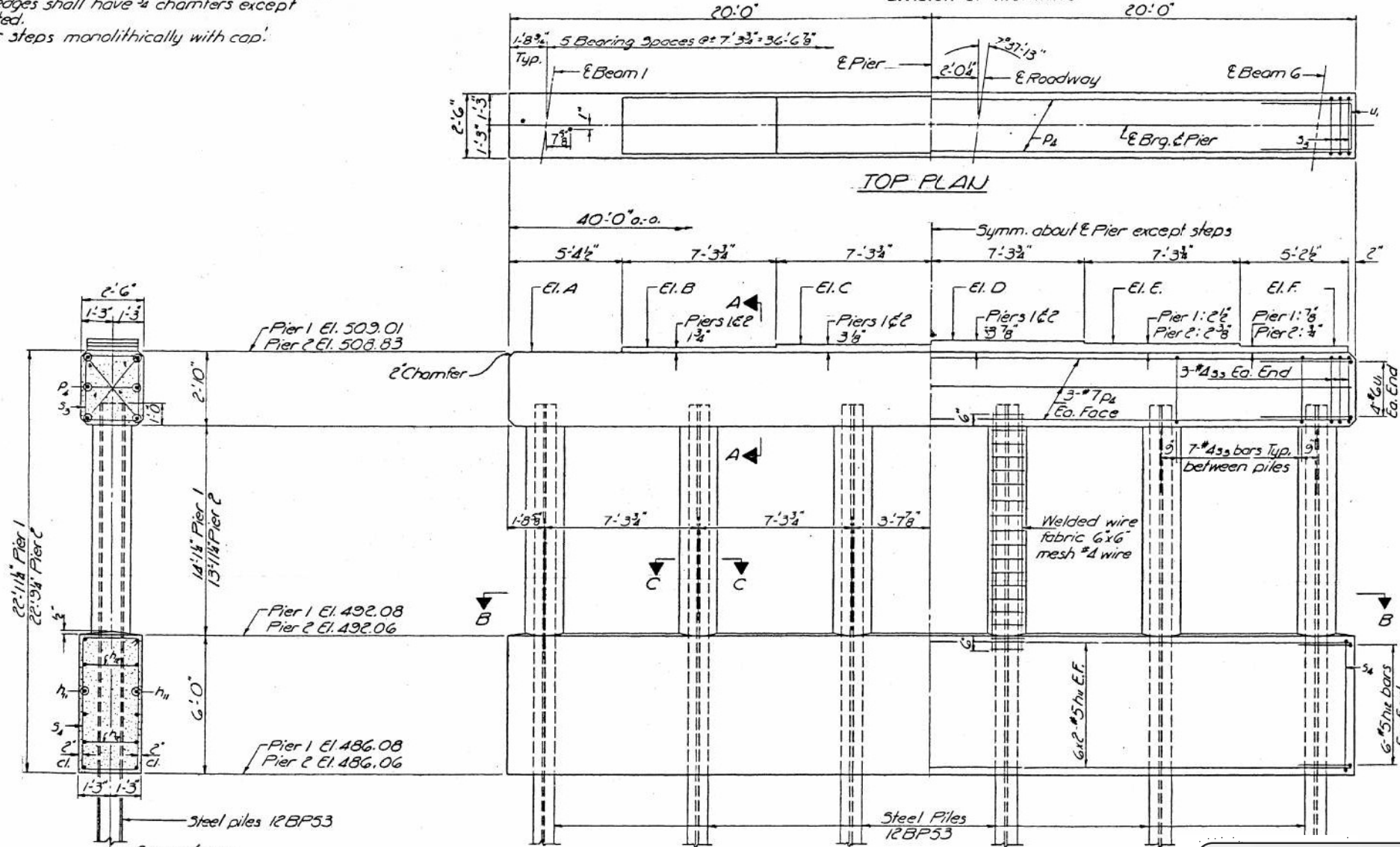
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CHECKED: RAO, G.K.
DRAWN: SG Ferchow
CHECKED: RAO, G.K.

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Notes:
 Space reinforcement in cap to miss anchor bolts.
 Min. bar laps = 24 Dia. unless otherwise noted.
 All edges shall have 3/4 chamfers except as noted.
 Four steps monolithically with cap.

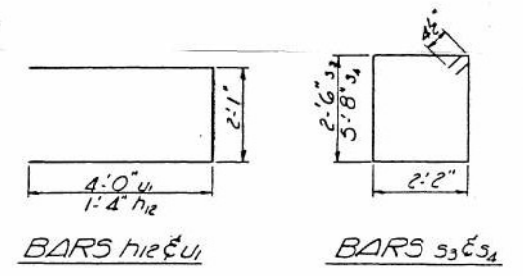
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 17
41-9	VB-2	JEFFERSON	38	25	20 SHEETS
FILE NAME	DATE	PROJECT			



STEP ELEVATIONS

	A	B	C	D	E	F
Pier 1	509.01	509.16	509.27	509.33	509.22	509.08
Pier 2	508.83	508.98	509.09	509.15	509.03	508.89



INFORMATION ONLY

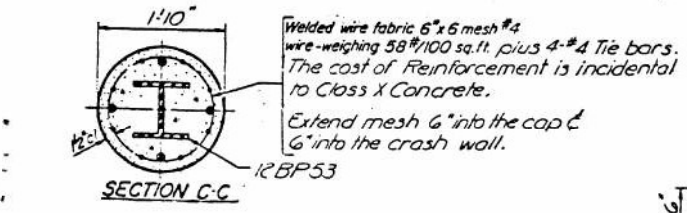
TWO PIERS
 BILL OF MATERIAL

Bar	Qty.	Size	Length	Notes
h12	48	#5	20'-6"	
h12	24	#5	4'-9"	
D4	12	#7	39'-9"	
u1	16	#6	10'-1"	
s3	82	#4	10'-1"	
s4	78	#4	16'-5"	

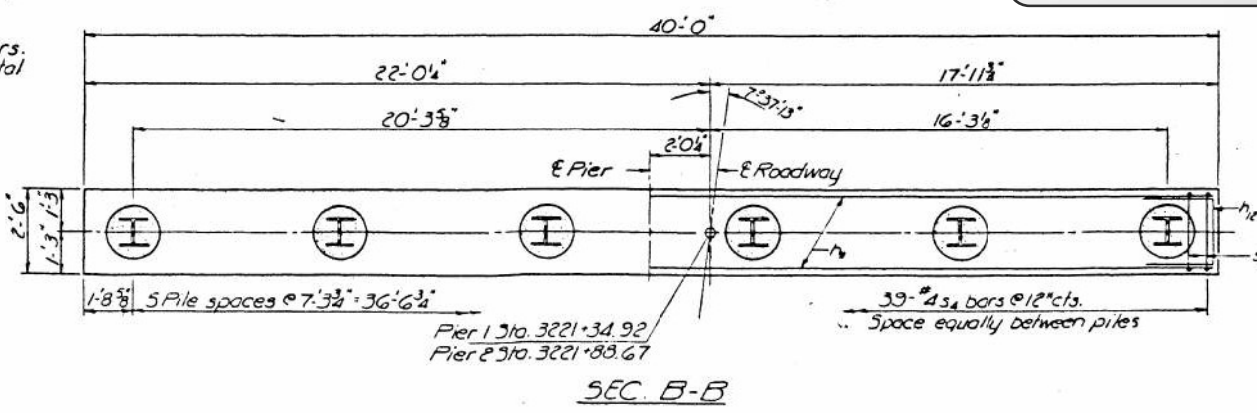
Class X Concrete Cu. Yds. 32.1
 Reinforcement Bars Lbs. 3770
 Steel piles 12BP53 Lin. Ft. 660
 Total piles 5t. 12BP53 Each 1

FILE DATA
 Type: Steel 12BP53
 Capacity: Driven to refusal
 Est. Length 60'
 No. Req'd 12 including
 1 test pile at Pier 2

PIERS 1 & 2
 WEST BOUND LANES
 FAI RTGA SEC. 41-9VB-2
 JEFFERSON COUNTY
 STA. 3221+68.08



DESIGNED <i>A. J. Williams</i>	EXAMINED <i>[Signature]</i> SEPT. 9 1970
CHECKED Rao. G. k.	PASSED
DRAWN J.D.	APPROVED
CHECKED Rao. G. k.	



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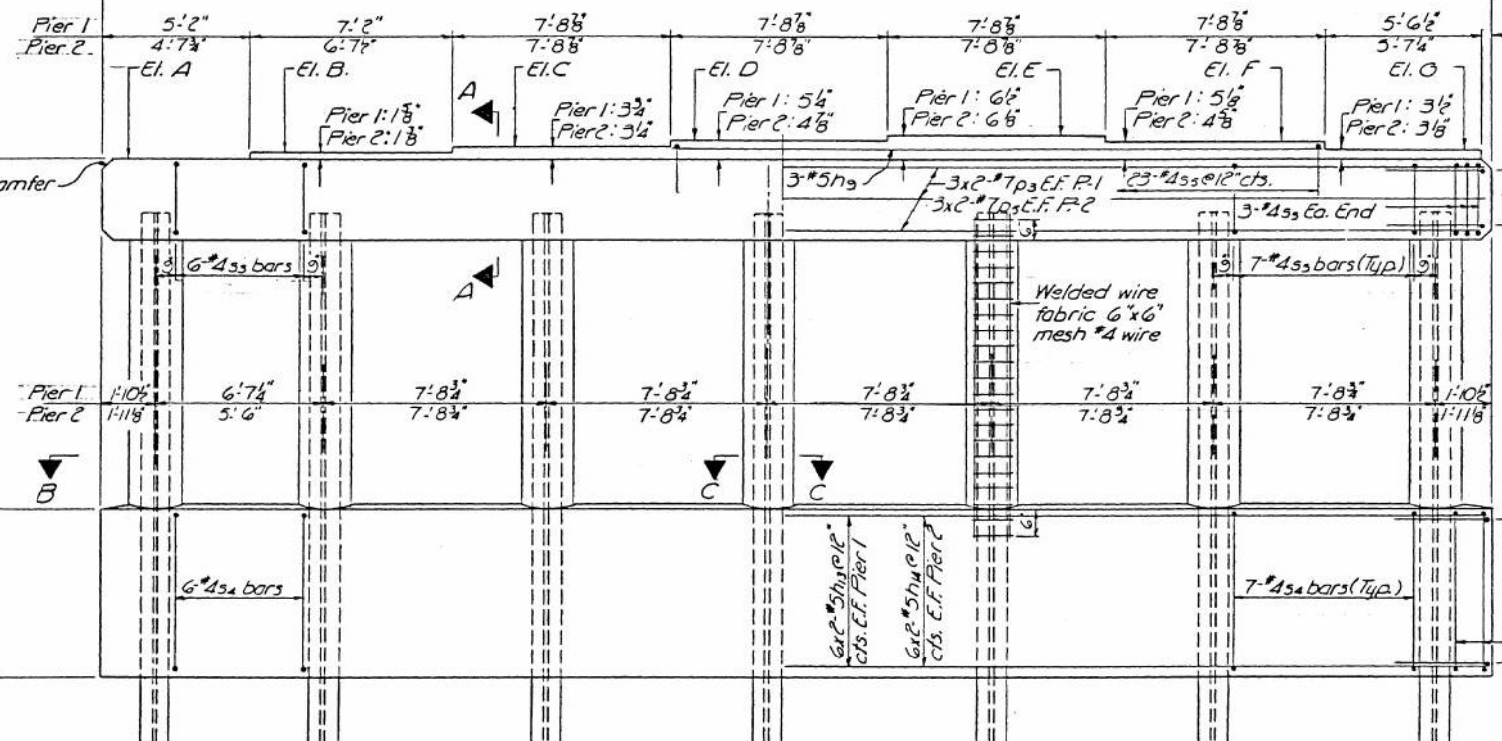
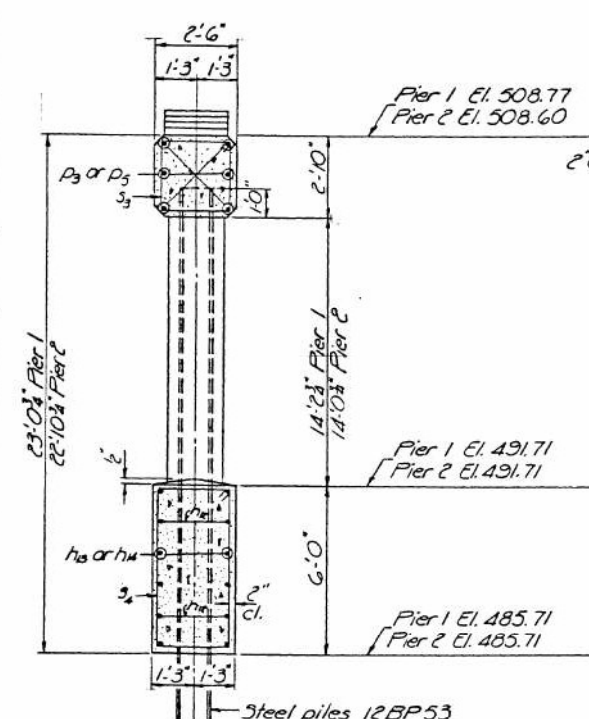
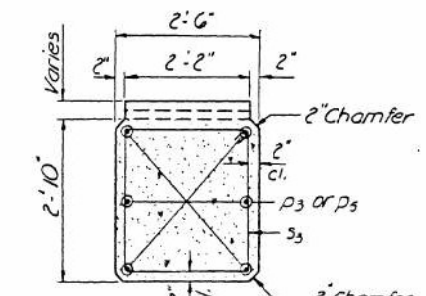
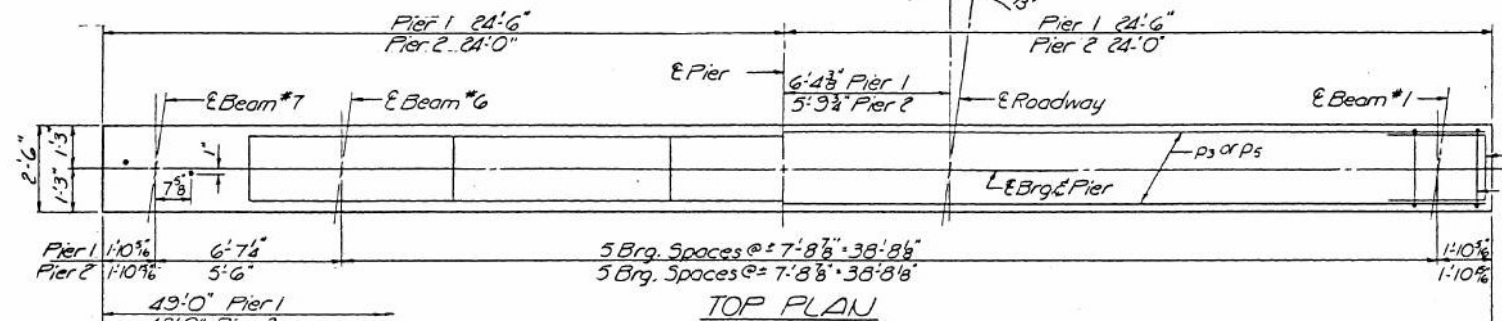
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT	41-9	TOTAL SHEETS	38	SHEET NO.	26
SECTION	VB-2	COUNTY	JEFFERSON	TOTAL SHEETS	20 SHEETS

Notes:
Space reinforcement in cap to miss anchor bolts.
Min. bar laps = 24 Dia. unless otherwise noted.
All edges shall have 2" chamfers except as noted.
Piers monolithically with cap.

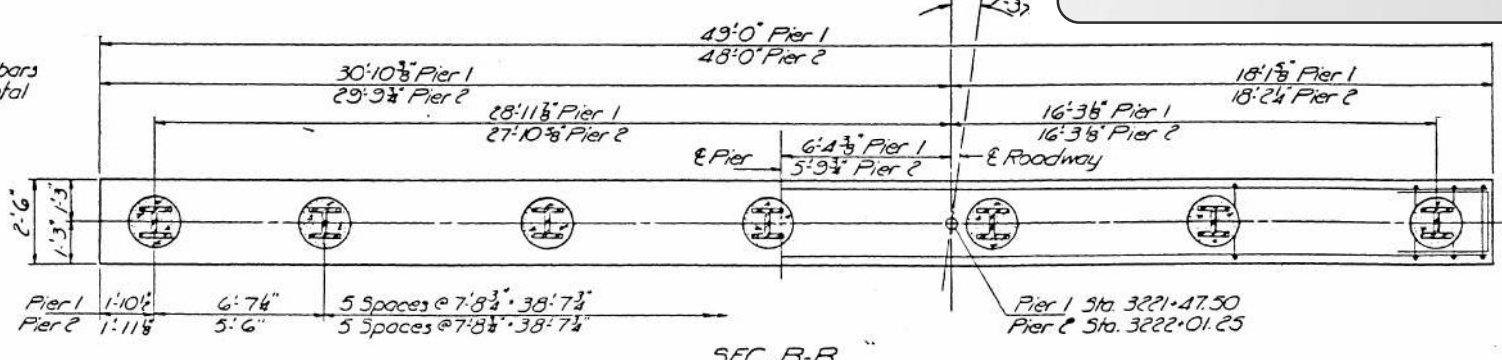
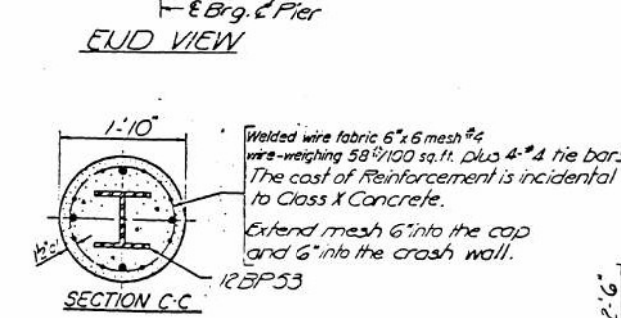
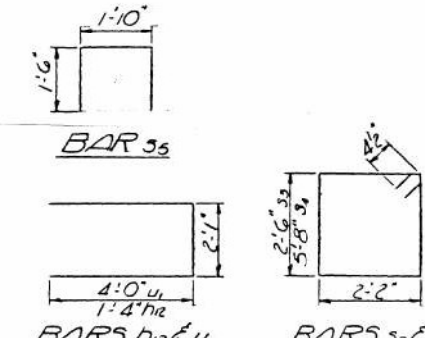
FILE DATA

Type: Steel 12BP53
Capacity: Driven to refusal
Est. length 60'
No. Req'd. 14 including 1 test pile at Pier 1



STEP ELEVATIONS

	A	B	C	D	E	F	G
Pier 1	508.77	508.91	509.08	509.21	509.31	509.20	509.06
Pier 2	508.60	508.71	508.81	509.01	509.11	508.99	508.86



INFORMATION ONLY

TWO PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Slope
h9	6	#5	23'-0"	
h12	24	#5	4'-9"	
h13	24	#5	25'-0"	
h14	24	#5	24'-6"	
p3	12	#7	25'-6"	
p5	12	#7	25'-0"	
u1	16	#6	10'-1"	
s3	94	#4	10'-1"	
s4	90	#4	16'-5"	
s5	46	#4	4'-10"	
Class X Concrete Cu Yds. 100.1				
Reinforcement Bars Lbs. 4750				
Steel piles 12BP53 lin. ft. 780				
Test piles steel 12BP53 each 1				

PIERS 1&2
EAST BOUND LANES
F.A.I. RT. 64 SEC. 41-9VB-2
JEFFERSON COUNTY
STA. 3221+68.08

DESIGNED A.Y. KHAYAT
CHECKED Rao G.k.
DRAWN J.D.
CHECKED Rao G.k.

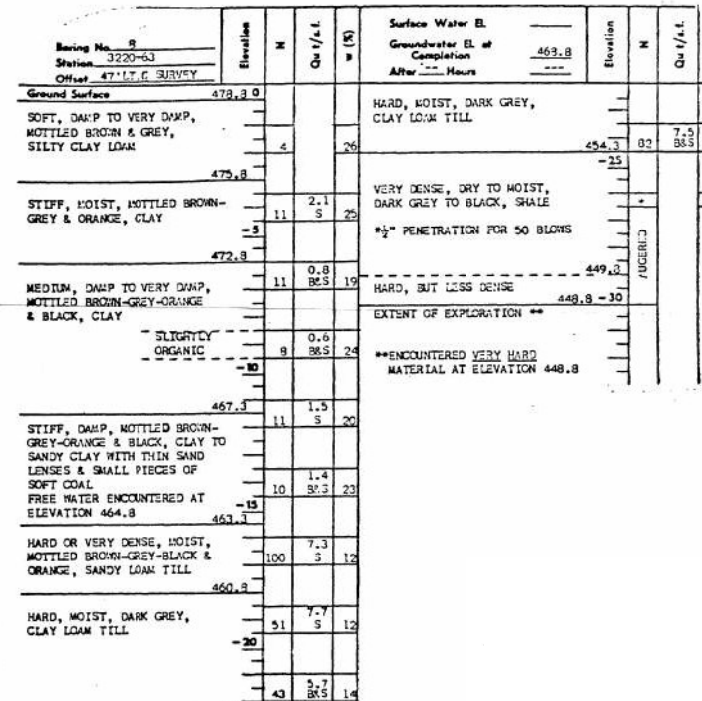
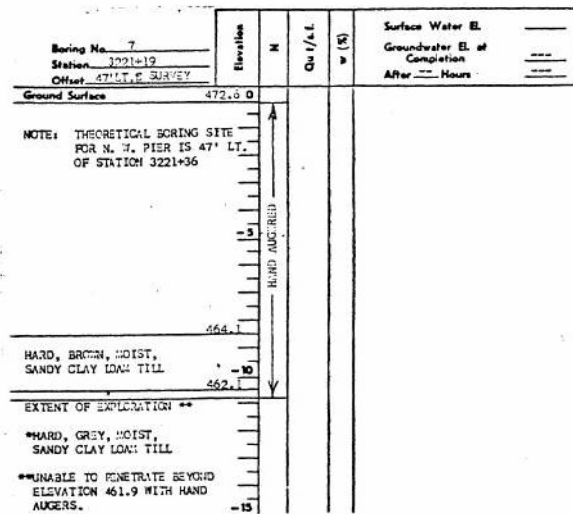
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PASSED [Signature]
APPROVED [Signature]

SEPT 8 1970

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5/4/2023 8:13:22 AM

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41-9	JEFFERSON	38	28	20
SHEET NO. 20				



N-Standard Penetration Test- Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 # hammer falling 30".
 Qu-Unconfined Compressive Strength - t/sf
 w-Water Content - percentage of oven dry weight-%.
 Type failure
 B-Bulge Failure
 S-Shear Failure
 E-Estimated Value
 P-Penetrometer

INFORMATION ONLY

BORING DATA
 FAI, RT. 6A SEC. 41-9VB-2
 JEFFERSON COUNTY
 STA. 3221+68.08

MODEL: Default
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DESIGNED	A. V. Khayyat
CHECKED	Rao. G.K.
DRAWN	J.D.
CHECKED	Rao. G.K.

EXAMINED
 PASSED
 APPROVED



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
 S.N. 041-0083 (EB) & S.N. 041-0084 (WB)

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	041-9VB-2	JEFFERSON	49	49
CONTRACT NO. 78917				