

078

01-18-2019 LETTING ITEM 078

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2019-2	WHITE	23	1
ILLINOIS CONTRACT NO. 78630				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-5

PROPOSED HIGHWAY PLANS

FAI ROUTE 64 (I-64)
SECTION D9 BRIDGE REPAIR 2019-2
PROJECT NHPP-2IJI(431)
BRIDGE REPAIRS
WHITE COUNTY, IL, POSEY COUNTY, IN

C-99-034-18

TRAFFIC DATA

2017 ONE-WAY ADT = 7,000 WITH 37% TRUCKS

TOWNSHIPS

GRAY

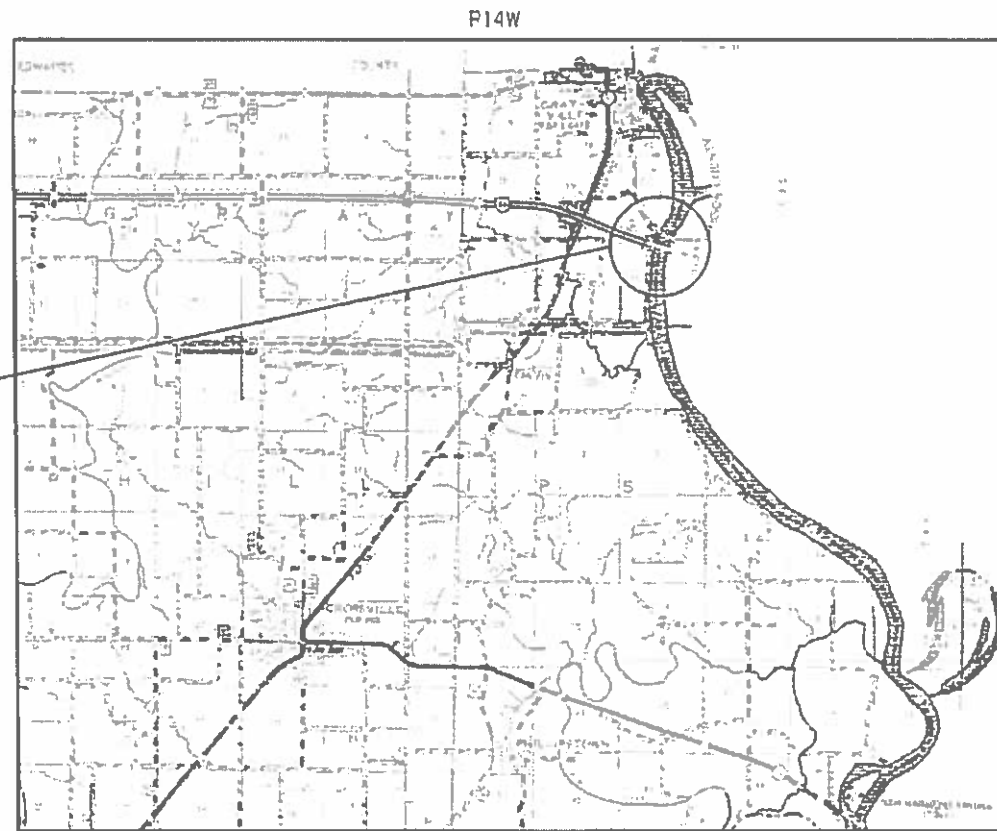
BRIDGE REPAIRS
 SN 097-0003 EB
 SN 097-0004 WB
 2705 -3' BK. TO BK. ABUT
 36 -0' OUT TO OUT
 30 -0' CLEAR WIDTH

DESIGN DESIGNATION: N/A
COORDINATE SYSTEM: ILLINOIS COORDINATE SYSTEM, EAST ZONE
POSTED SPEED: 70 MPH

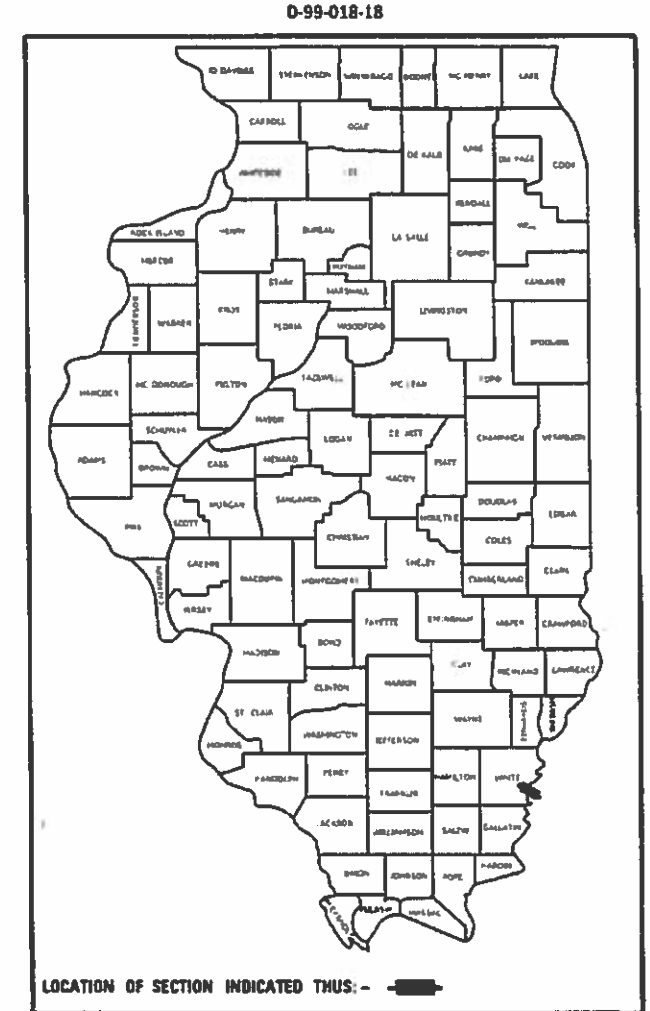
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT DESIGNER JOHN DAHMER
PROJECT ENGINEER DAVID PICHE

CONTRACT NO. 78630



GROSS LENGTH = 2705.25 FT. = 0.512 MILE
NET LENGTH = 2705.25 FT. = 0.512 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 4 2018

Jeffrey J. Keiser
REGION FIVE ENGINEER

Dec 7 2018
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 2018
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES, STANDARDS, MIX REQUIREMENTS
3-5	SUMMARY OF QUANTITIES
6	GENERAL ELEVATION
7-8	TYPICAL SECTIONS
9	STAGING DETAILS
10	WIDTH RESTRICTION SIGNING
11-19	DECK PATCHING
20	JOINT REPLACEMENT DETAILS
21-23	BEARING REPLACEMENT & FINGER PLATE GRINDING DETAILS

STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' FROM AWAY
701400-09	APPROACH TO LANE CLOSURE FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE FREEWAY/EXPRESSWAY
701406-12	LANE CLOSURE FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >45 MPH
701901-08	TRAFFIC CONTROL DEVICES

GENERAL NOTES

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED WILL BE DETERMINED BY THE ENGINEER.

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.

THE THICKNESS OF HOT MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT MIX ASPHALT MIXTURE IS PLACED.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE HMA SURFACE REMOVAL, BINDER COURSE, AND SURFACE COURSE ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE HOT MIX ASPHALT SURFACE REMOVAL OR HOT MIX ASPHALT BINDER COURSE OR LEVELING BINDER, WHEN SPECIFIED.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

AFTER A LIFT OF HOT MIX ASPHALT HAS BEEN PLACED, THE LANE SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE NEW MAT HAS COOLED TO 150 DEGREES FAHRENHEIT

MIX REQUIREMENTS

LOCATIONS	HOT-MIX ASPHALT SURFACE COURSE
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX E, N70 FINE GRADED
AC/PG:	PG64-22
ABR % (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0 % TO GRAYTION DESIGN
MIXTURE COMPOSITION: (GRADUATION MIXTURE)	IL-9, 5MM FINE GRADED
FRICTION AGGREGATE:	E SURFACE
MIXTURE WEIGHT:	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	OCOA
SUBLOT SIZE:	TBD
SUBLOT SIZE:	NA

COMMITMENTS

NO COMMITMENTS AS OF OCTOBER 19, 2018.

Prepared By:	<i>[Signature]</i> DISTRICT STUDIES & PLANS ENGINEER
Examined By:	<i>[Signature]</i> DISTRICT LAND ACQUISITION ENGINEER
Examined By:	<i>[Signature]</i> DISTRICT PROGRAM DEVELOPMENT ENGINEER
Examined By:	<i>[Signature]</i> DISTRICT OPERATIONS ENGINEER
Examined By:	<i>[Signature]</i> DISTRICT PROJECT IMPLEMENTATION ENGINEER
Examined By:	<i>[Signature]</i> DISTRICT CONSTRUCTION ENGINEER
Examined By:	<i>[Signature]</i> DISTRICT MATERIALS ENGINEER

REV. - MS

MODEL: T:\default...
 FILE NAME: ...
 USER: ...
 DATE: ...

SUMMARY OF QUANTITIES

COUNTY:	WHITE	
ROUTE:	I-64 OVER WABASH RIVER	
FUNDING:	90% FEDERAL 10% STATE	100% INDIANA
LOCATION:	RURAL	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0013	0013
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	8,115	4,057.5	4,057.5
40603365	HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	1,521	760.5	760.5
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	18,090	9,045	9,045
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3610	1805	1805
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12	6	6
52100520	ANCHOR BOLTS, 1"	EACH	52	26	26
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1	0.5	0.5
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.5	0.5
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.5	0.5
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,353	676.5	676.5
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	10,820	5,410	5,410

* SPECIALTY ITEM

MODEL: Default
 FILE NAME: P:\11108\EBID\ITEC\Illinois.gov\PWIDOT\Documents\DOT_Offices\District 9\Projects\78630\CADDData\CAD\Sheets\DS78630-Sheets.dgn

USER NAME = porterc	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/16/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SN 097-00034

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2019-2	WHITE	23	3
			CONTRACT NO. 78630	
ILLINOIS FED. AID PROJECT				

REV. - MS

SUMMARY OF QUANTITIES - CONT

COUNTY:	WHITE	
ROUTE:	I-64 OVER WABASH RIVER	
FUNDING:	90% FEDERAL 10% STATE	100% INDIANA
LOCATION:	RURAL	RURAL
TOTAL QUANTITY	CONSTRUCTION CODE 0013	CONSTRUCTION CODE 0013

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0013	CONSTRUCTION CODE 0013
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1,353	676.5	676.5
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	68	34	34
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	68	34	34
70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	28	14	14
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	677	338.5	338.5
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	4	2	2
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	19	9.5	9.5
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	170	85	85
Z0021908	SILICONE JOINT SEALER, 2"	FOOT	60	30	30
Z0021912	SILICONE JOINT SEALER, 2.5"	FOOT	30	15	15
Z0021916	SILICONE JOINT SEALER, 3"	FOOT	30	15	15
Z0021918	SILICONE JOINT SEALER, 4"	FOOT	90	45	45
Z0021920	SILICONE JOINT SEALER (SPECIAL)	FOOT	150	75	75

* SPECIALTY ITEM

REV. - MS

MODIFIED: P:\civ\4\...
 FILE NAME: P:\civ\4\...
 PROJECT: I-64 OVER WABASH RIVER BRIDGE REPAIR 2019-2
 OFFICE: CHICAGO
 DATE: 10/2/2018

USER NAME = WILSONDA	DESIGNED -	REVISED -
PLOT SCALE = 100.0000	DRAWN -	REVISED -
PLOT DATE = 10/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SN 097-00034

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
64	D9 BRIDGE REPAIR 2019-2	WHITE	23	4
CONTRACT NO. 78630			ILLINOIS FED. AID PROJECT	

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

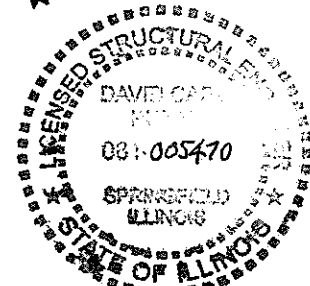
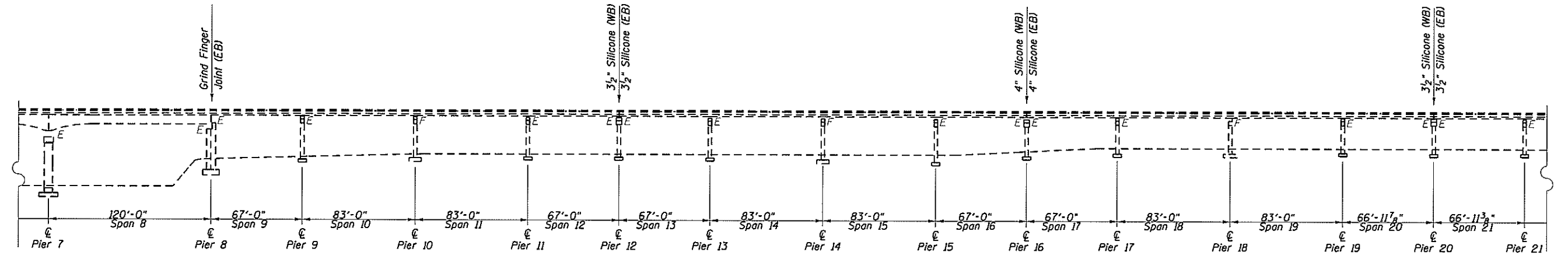
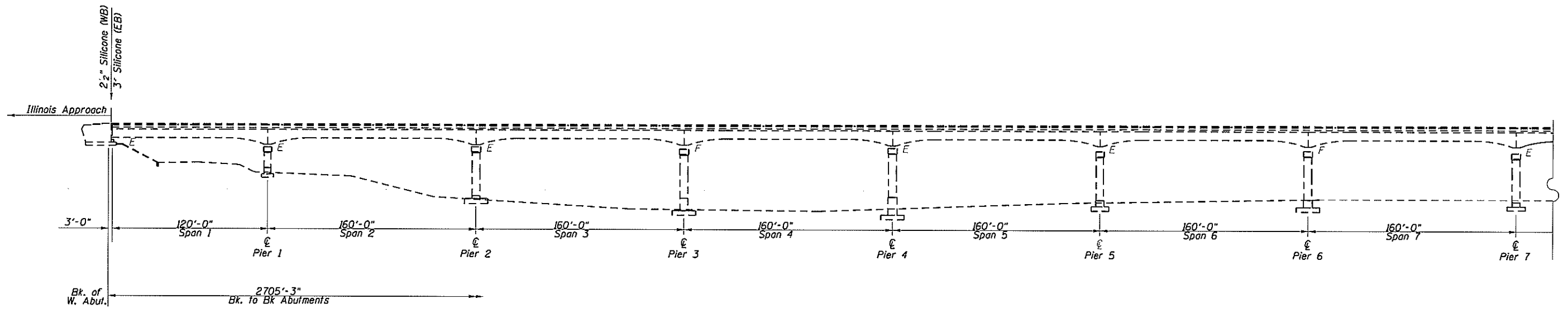
SUMMARY OF QUANTITIES - CONT

COUNTY:	WHITE	
ROUTE:	I-64 OVER WABASH RIVER	
FUNDING:	90% FEDERAL 10% STATE	10% INDIANA
LOCATION:	RURAL	RURAL
TOTAL QUANTITY	CONSTRUCTION CODE 0013	CONSTRUCTION CODE 0013

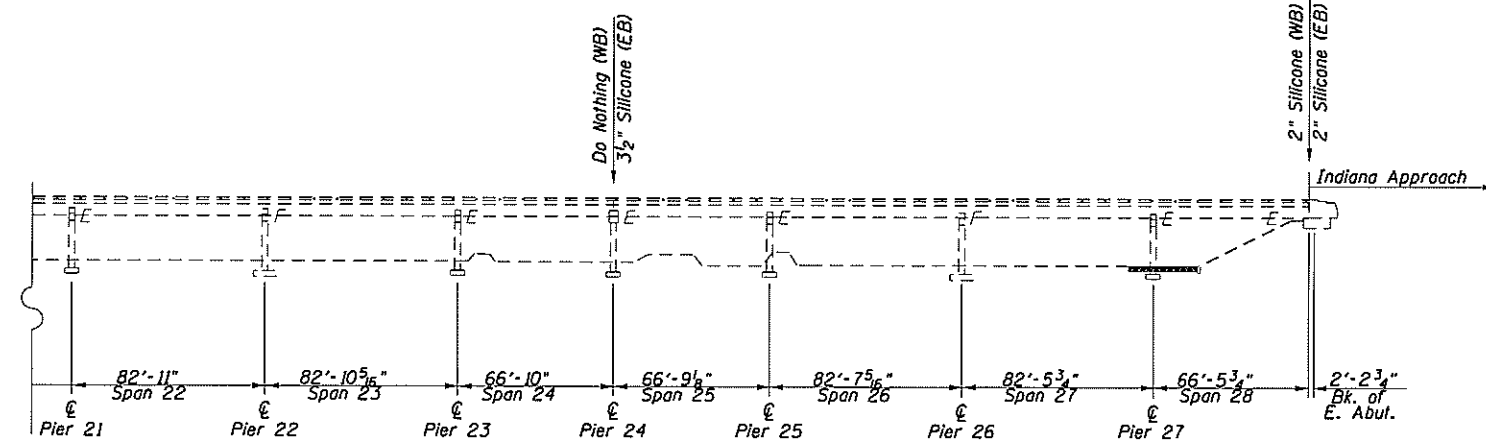
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0013	CONSTRUCTION CODE 0013
Z0041895	POLYMER CONCRETE	CU FT	29	14.5	14.5

MODPL Dwg.tbl
 FILE NAME: \\P:\GIS\BENTLEY\BENTLEY\DWG\PLANS\78630\CADD\JAL\CAD\HIST\AD78630\Sheets.dwg
 PLOT DATE: 10/27/2018

REV. - MS



Dr. Cal Ramsey 12/4/18
Exp. mcs 11/30/20



- Scope of Work**
- Setup Traffic Control with drums
 - Scarify existing HMA 1 1/2"
 - Perform Deck Repairs
 - Replace Existing Neoprene Joints
 - Install 1 1/2" HMA
 - Replace Bearings
 - Switch Stages And Repeat

ELEVATION
(Looking North)

**GENERAL ELEVATION
 D9 BRIDGE DECK REPAIRS 2019-2
 FAI 64 OVER WABASH RIVER
 WHITE COUNTY
 SN 097-0003/4**

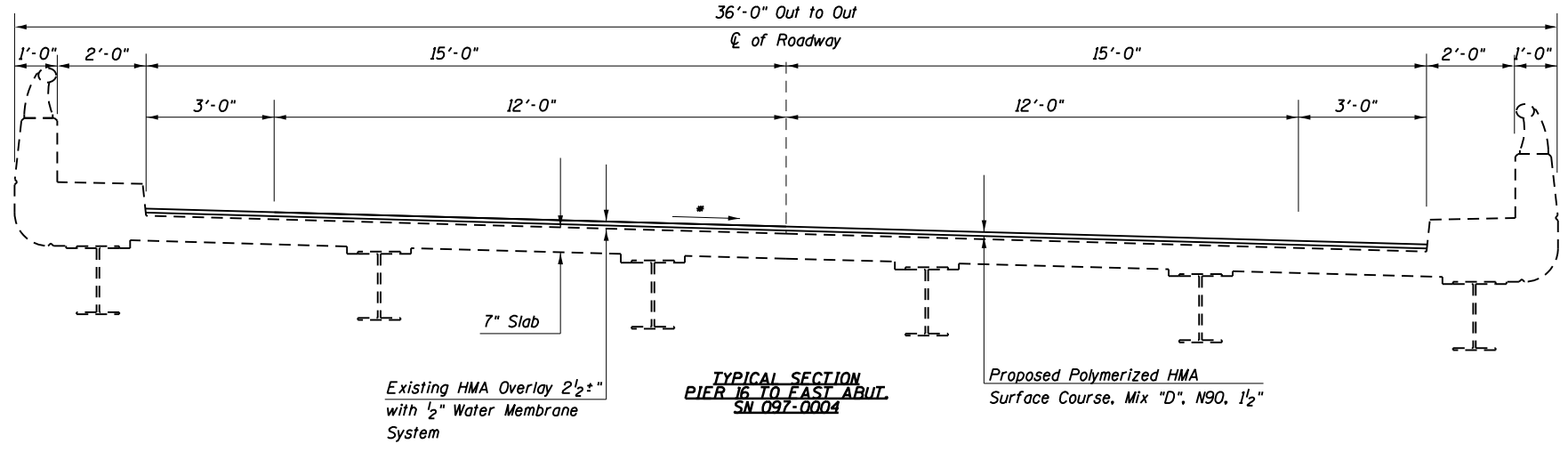
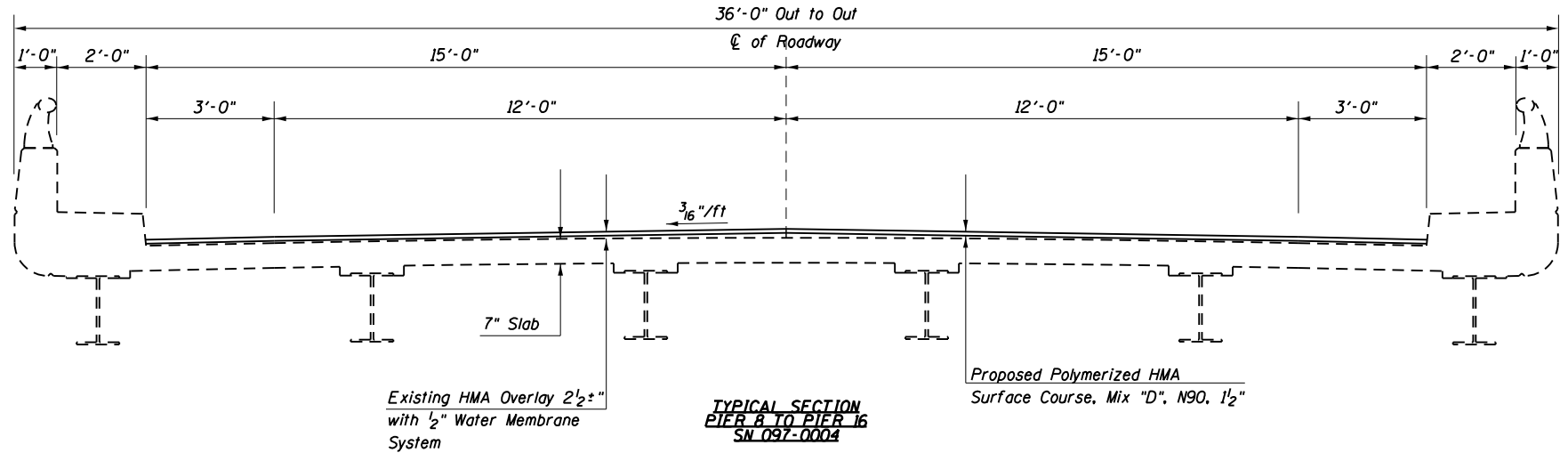
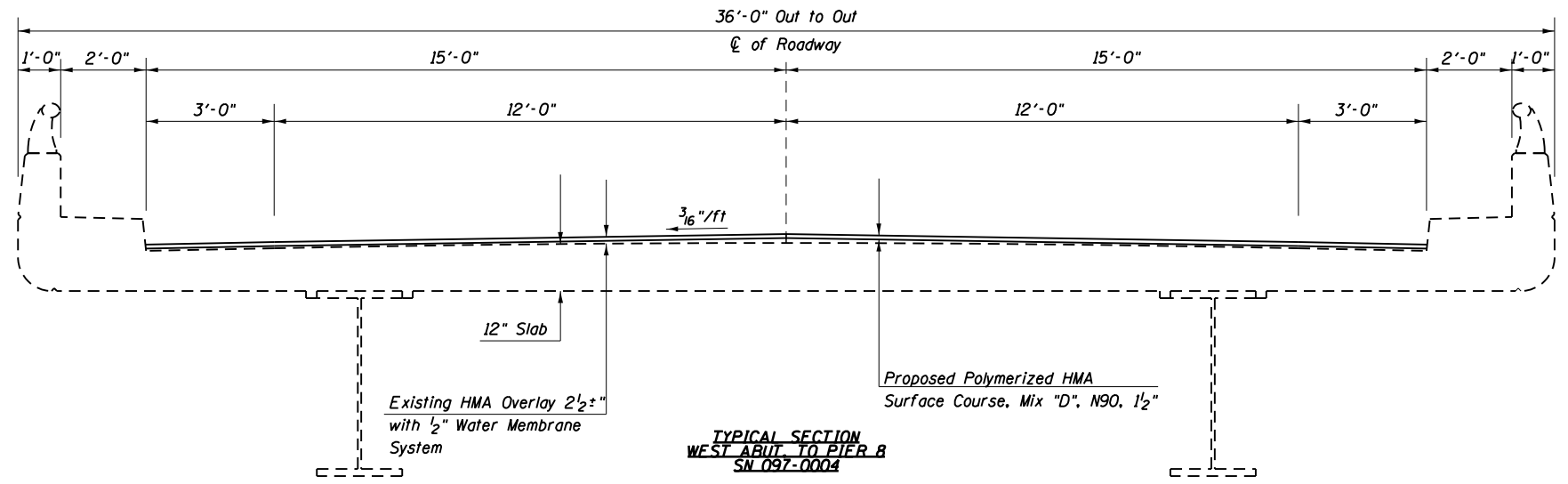
MODEL: D:\pwr\...
 FILE NAME: ...

USER NAME = WILSONDA	DESIGNED - JAD	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - DSP	REVISED -
PLOT DATE = 10/11/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION	
SN 097-0004	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2019-2	WHITE	23	6
CONTRACT NO. 78630				
ILLINOIS FED. AID PROJECT				



Notes:
 All sections are looking East
 Match Existing Slopes

**TYPICAL SECTION
 D9 BRIDGE DECK REPAIR 2019-2
 FAI 64 OVER THE WABASH RIVER
 WHITE COUNTY
 SN 097-0004**

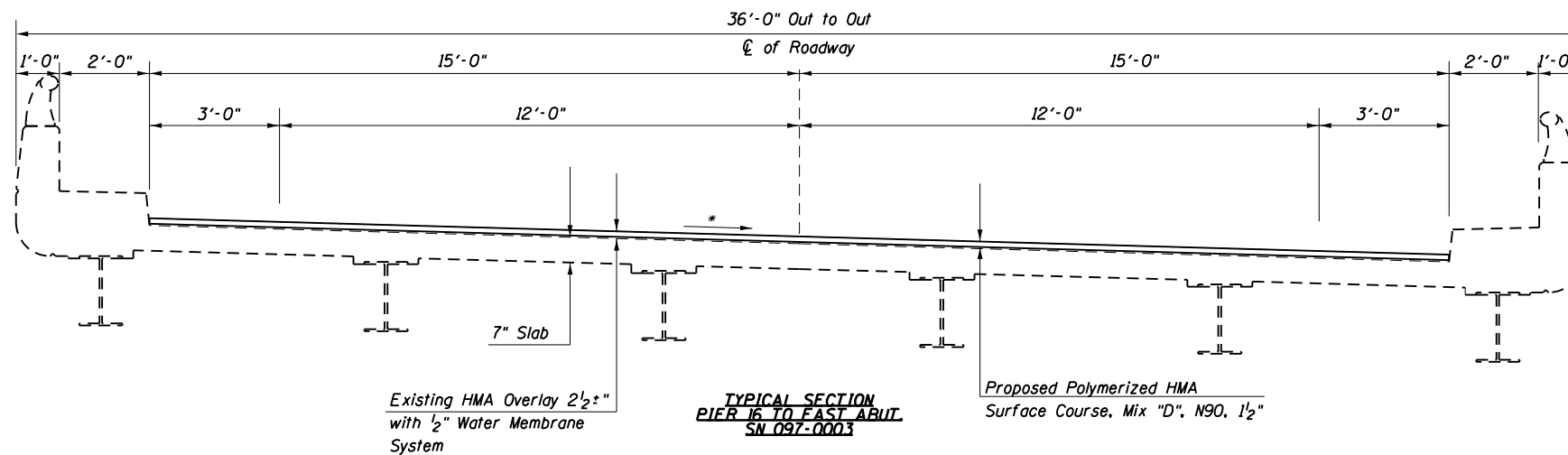
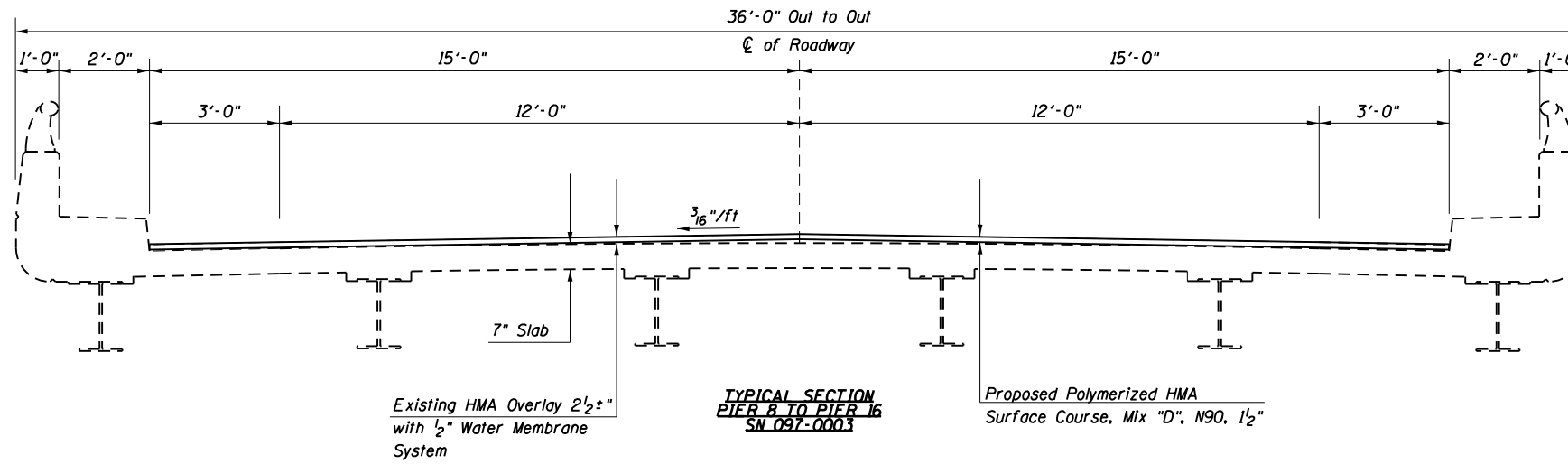
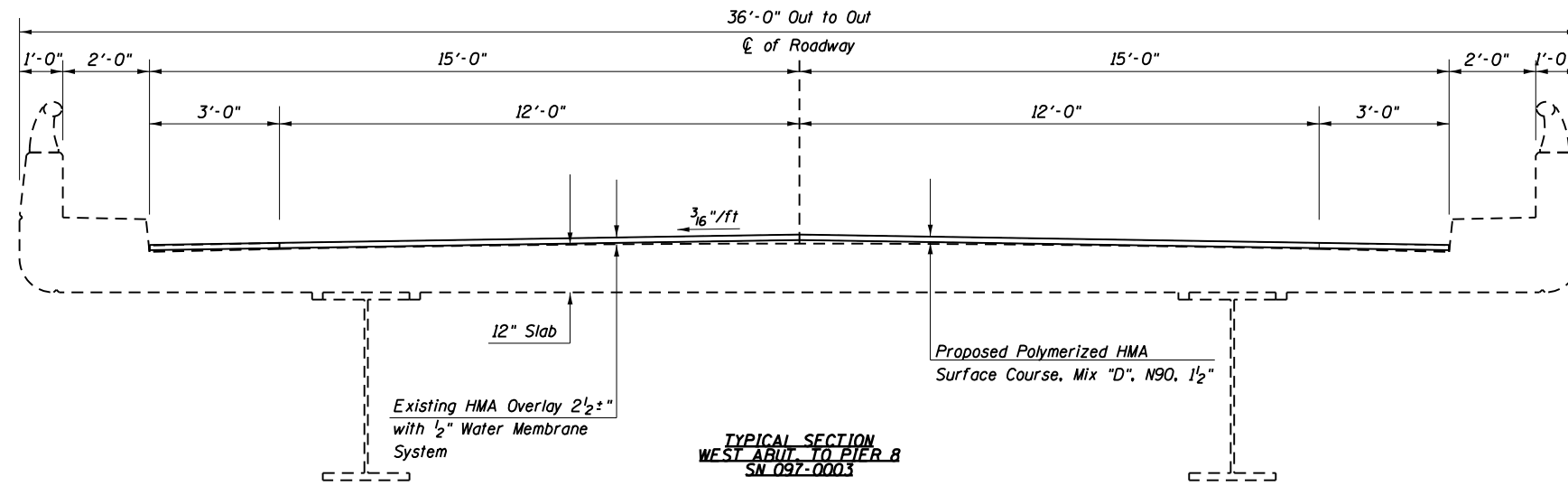
MODEL: Default
 FILE NAME: P:\ILLINOIS\BARDEN\TEC\Illinois.gov\PIVDOT\Documents\DOT Office\District 9\Projects\78630\CAD\Drawings\0978630\Sheets.dwg
 PROJECT: 78630\CAD\Drawings\0978630\Sheets.dwg

USER NAME = WILSONDA	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/11/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION SN 097-0004	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2019-2	WHITE	23	7
CONTRACT NO. 78630				
ILLINOIS FED. AID PROJECT				



Notes:
 All sections are looking East
 Match Existing Slopes

**TYPICAL SECTION
 D9 BRIDGE DECK REPAIR 2019-2
 FAI 64 OVER THE WABASH RIVER
 WHITE COUNTY
 SN 097-0003**

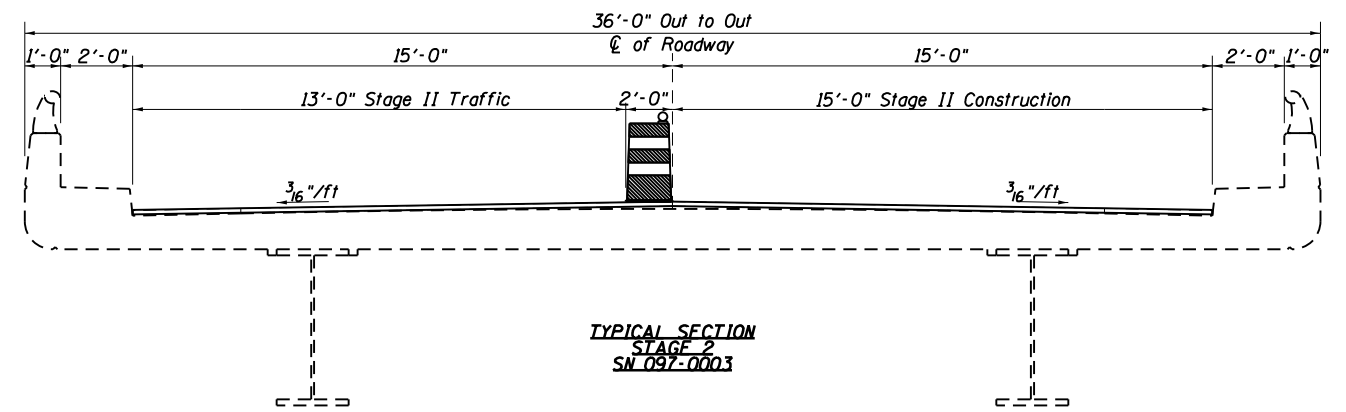
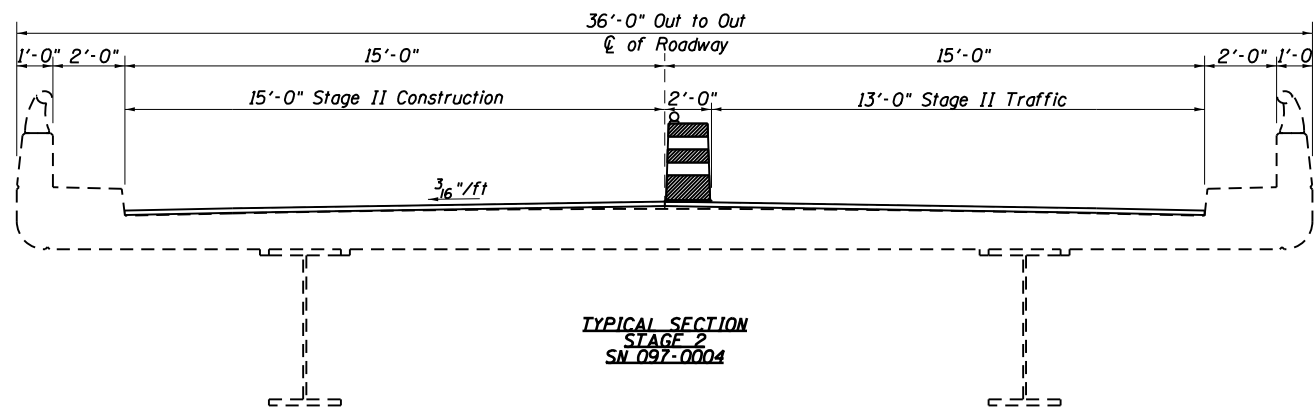
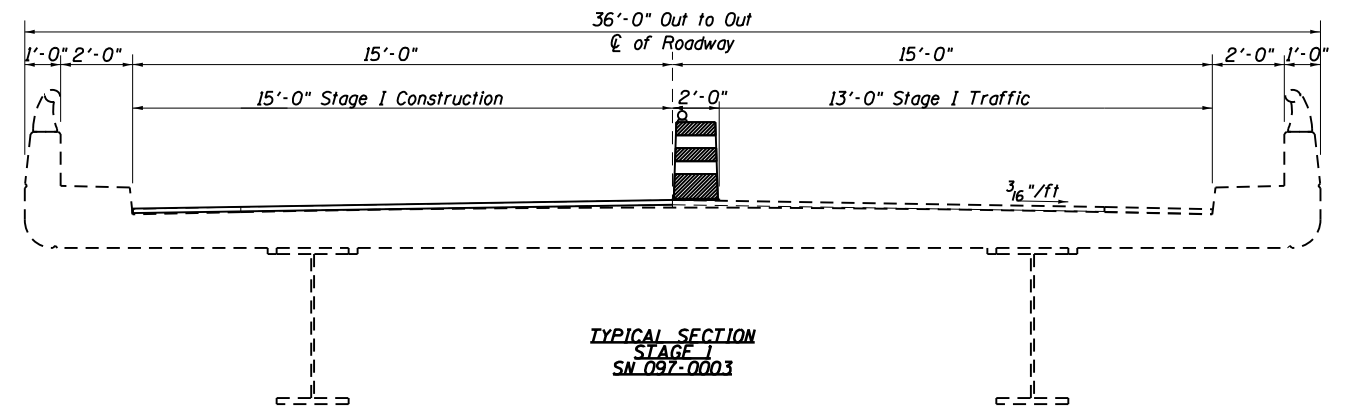
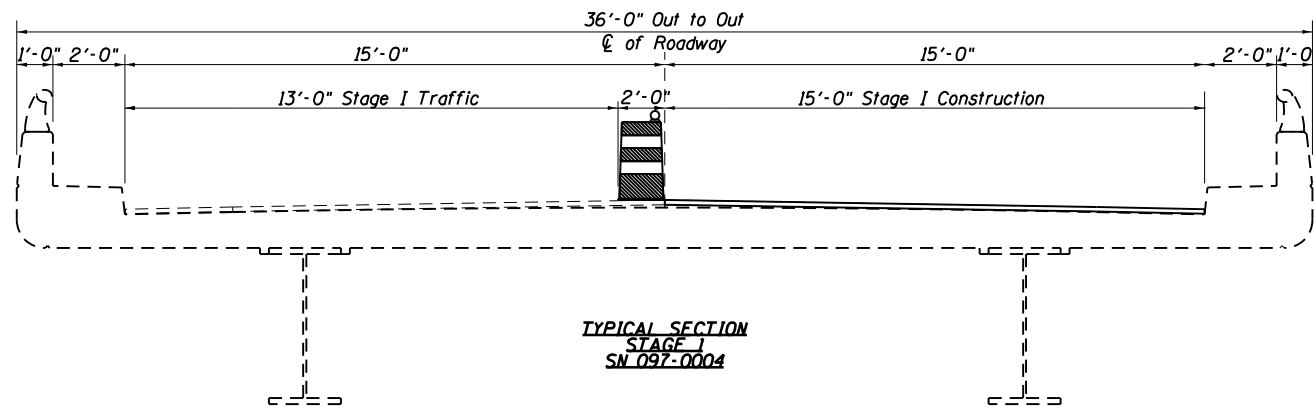
MODEL: Default
 FILE NAME: P:\ILLINOIS\BARENHEDITEC\Illinois\proj\WID\DOT\Documents\11DOT_Coffices\District 9\Projects\78630\CADD\DATA\CAD\Sheets\09728630\Sheets.dwg

USER NAME = WILSONDA	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/11/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS SN 097-0003				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2019-2	WHITE	23	8
CONTRACT NO. 78630				
ILLINOIS FED. AID PROJECT				



Notes:
Temporary Pavement Marking shall only be used to mark the centerline of the lanes.
All sections looking East.

STAGING DETAILS
D9 BRIDGE DECK REPAIR 2019-2
FAI 64 OVER THE WABASH RIVER
WHITE COUNTY
SN 097-0003/4

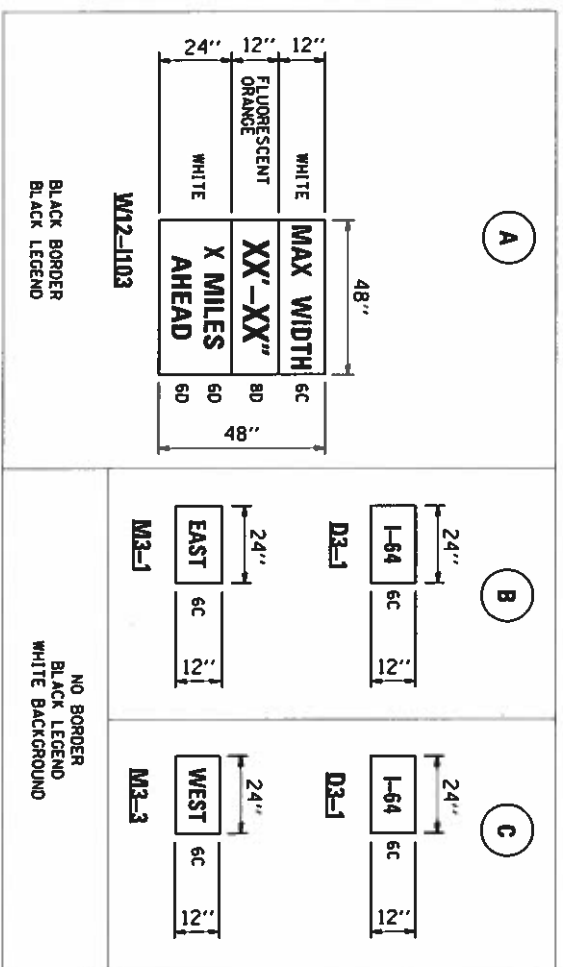
Model: Default
File Name: P:\ILLINOIS\BID\NITEC\Illinois.gov\PIVDOT\Documents\1100T_Coffices\District 9\Projects\78630\CADD\Drawings\09728630_Sheets.dwg

USER NAME = WILSONDA	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/11/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING DETAILS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

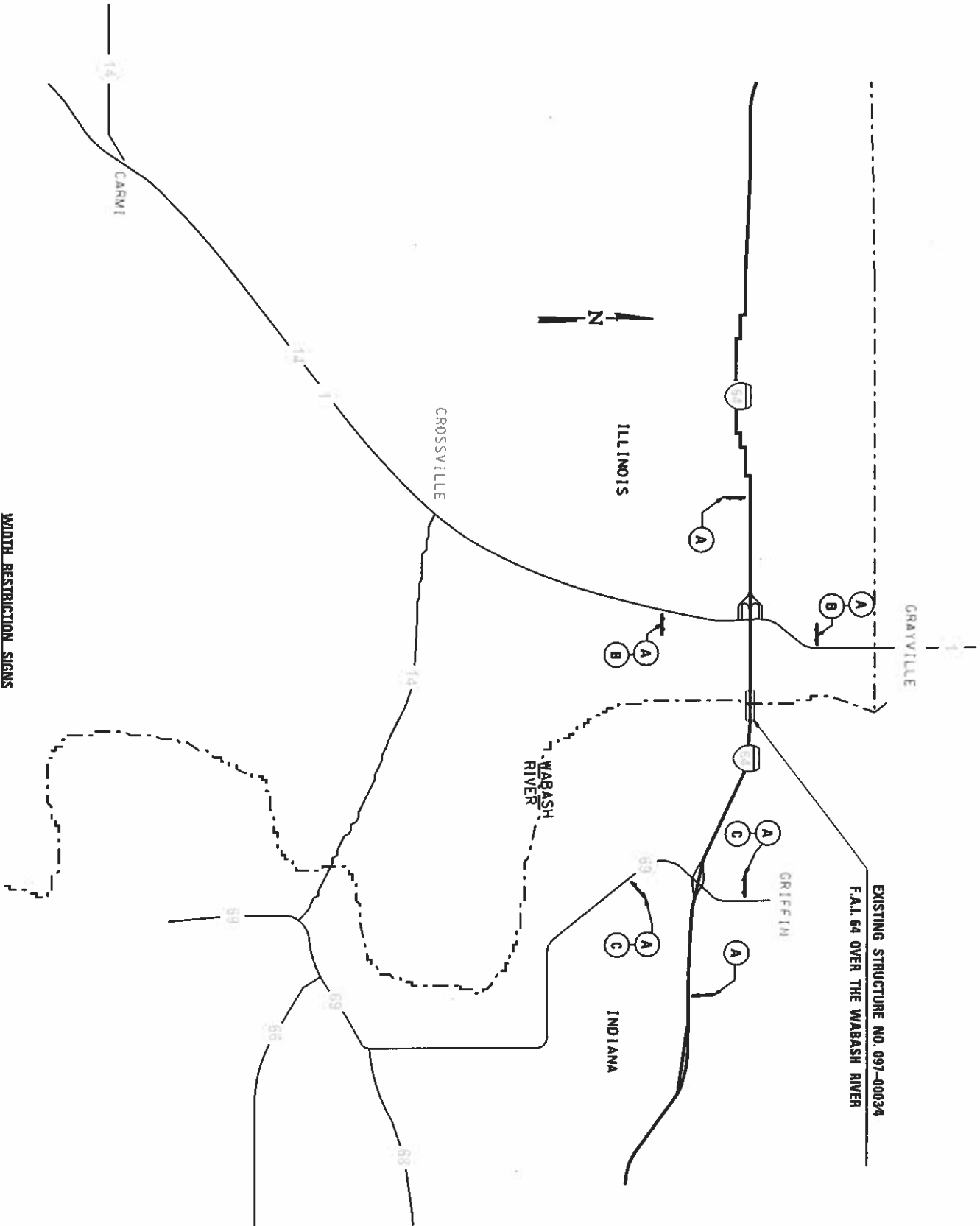
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D9 BRIDGE REPAIR 2019-2	WHITE	23	9
CONTRACT NO. 78630				
ILLINOIS FED. AID PROJECT				



WIDTH RESTRICTION SIGNS

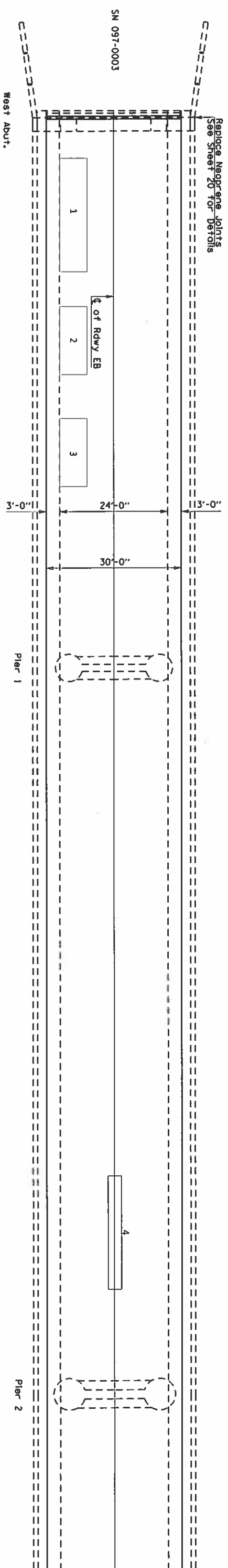
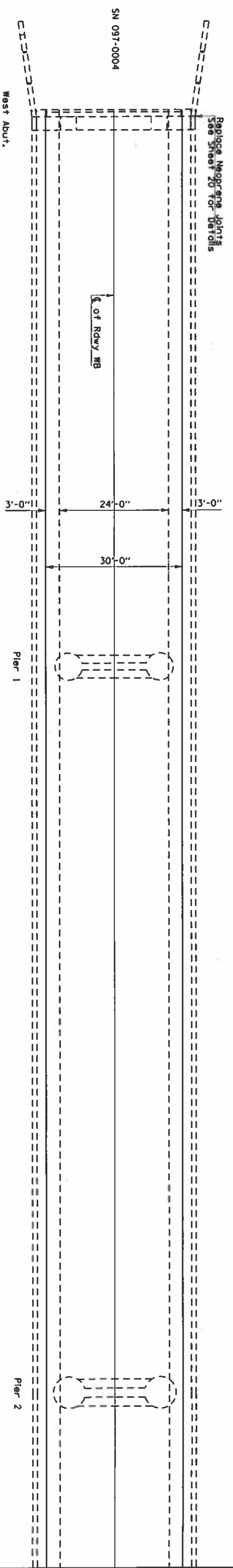
NOTES

STAGE I MAX WIDTH SHALL BE 11'-6" EASTBOUND AND WESTBOUND.
 STAGE II MAX WIDTH SHALL BE 11'-6" EASTBOUND AND WESTBOUND.
 THE DISTANCE "X" ON THE "X MILES AHEAD" SIGN WILL BE DETERMINED BY THE ENGINEER.
 ALL WIDTH RESTRICTION SIGNS, POSTS, HARDWARE AND LABOR ARE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL), AND NO OTHER COMPENSATION WILL BE ALLOWED.
 THE CONTRACTOR SHALL ERECT THE SIGNS AT LOCATIONS DETERMINED BY THE ENGINEER.
 ALL SIGNS SHALL BE POST MOUNTED.
 SEE SECTION 1106.01 OF THE STANDARD SPECIFICATIONS FOR SIGN SHEETING REQUIREMENTS.



WIDTH RESTRICTION SIGNS
 MAP NOT TO SCALE

USER NAME = WILSONDA	DESIGNED =	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE =	SHEET =	OF =	SHEETS =	STA. TO STA.	F.A.L. RITE 64	SECTION 09 BRIDGE REPAIR 2019-2	COUNTY WHITE	TOTAL SHEET NO. 23
PLOT SCALE = 1/8" = 100'-0"	DRAWN =	CHECKED =										
PLOT DATE = 10/2/2018	DATE =	REVISIONS										



Deck Slab Repair (Partial)

Number	Length (ft)	Width (ft)	Area (Sq Yd)
1	25	6	16.7
2	15	6	10.0
3	15	6	10.0
4	25	3	8.3

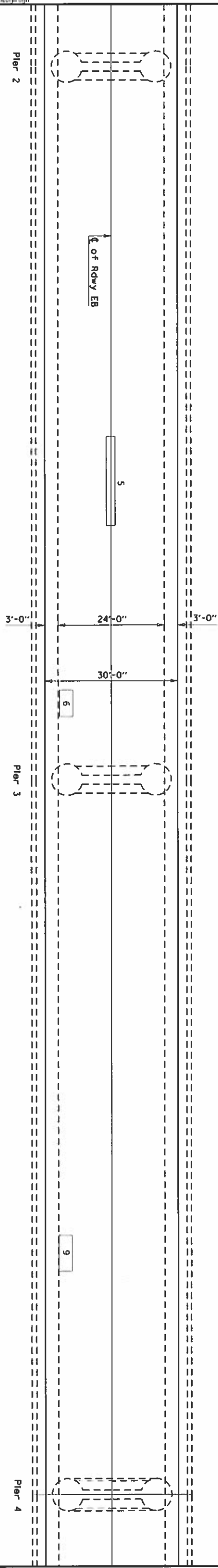
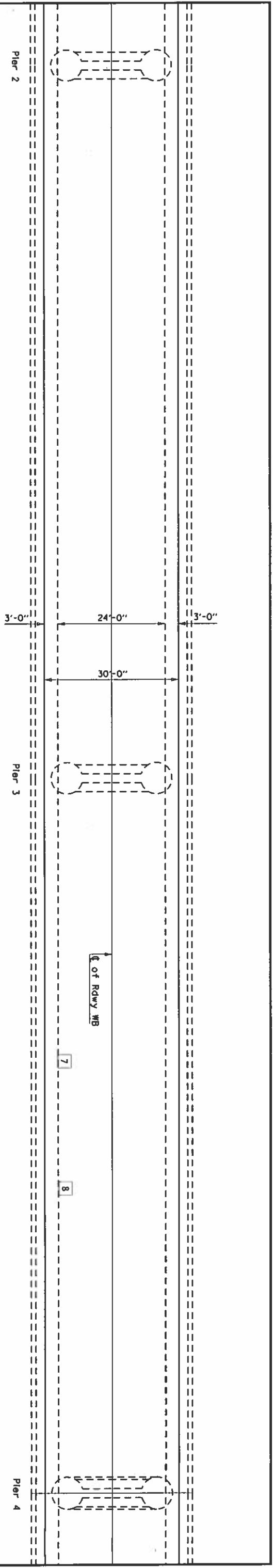
Notes:

The Deck Repair Quantities were estimated by
 Field Inspection in February 2018.
 The Resident Engineer will determine final patch
 locations and quantities in the field.

USER NAME	= WILSONDA	DESIGNED	-	REVISION	-
PLOT SCALE	= 100:0000 / 1" = 100'	DRAWN	-	REVISION	-
PLOT DATE	= 10/20/18	CHECKED	-	REVISION	-
		DATE	-	REVISION	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DECK PATCHING DETAILS		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
F&I RTE	SECTION	COUNTY	TOTAL SHEETS	NO.			
64	09 BRIDGE REPAIR 2019-2	WHITE	23	11			
		CONTRACT NO.	78630				
		ILLINOIS	FED. AID PROJECT				



Deck Slab Repair (Partial)

Number	Length (ft)	Width (ft)	Area (Sq Yd)
5	20	3	6.7
6	6	3	2.0
7	3	3	1.0
8	3	3	1.0
9	8	3	2.7

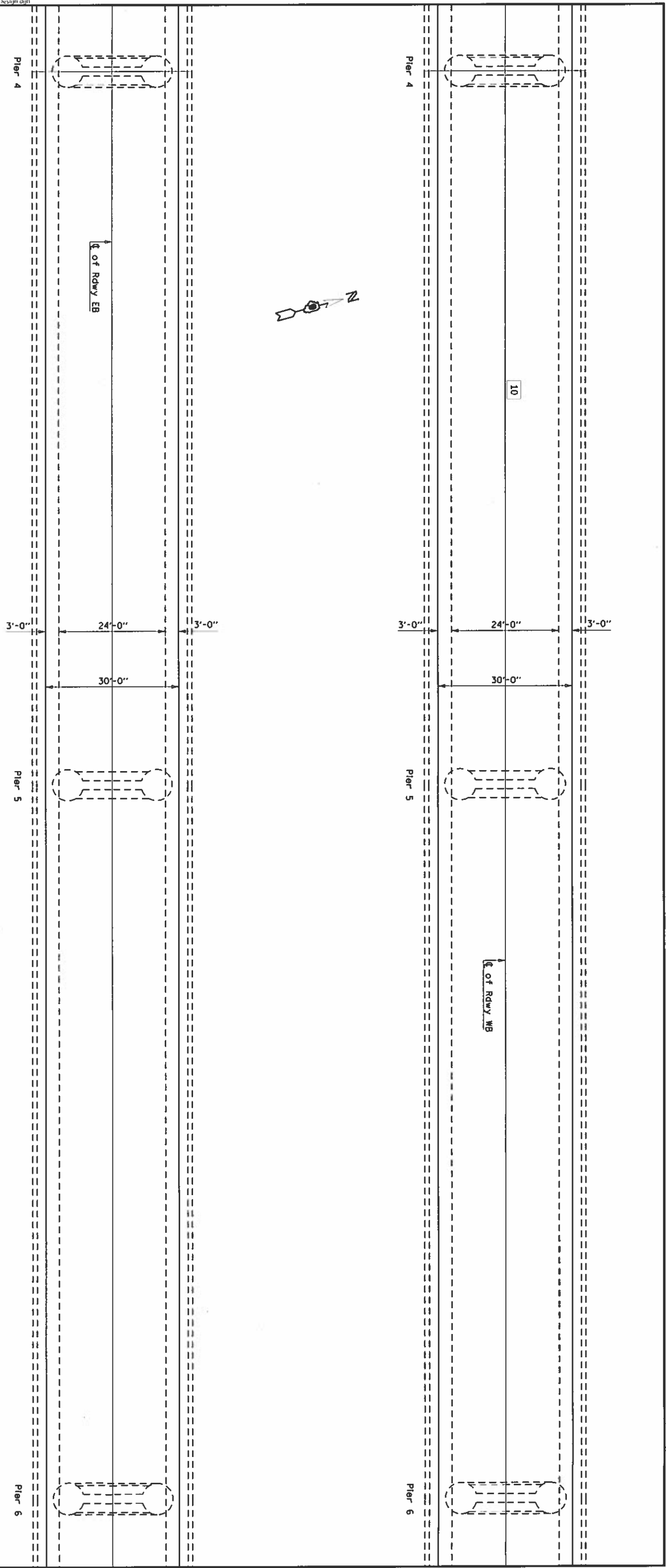
USER NAME = WILSONDA	DESIGNED	REVISOR
PROJECT SCALE = 100.0000 / in	DRAWN	REVISOR
PRINT DATE = 10/20/18	CHECKED	REVISOR
	DATE	REVISOR

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: _____ SHEET _____ OF _____ SHEETS STA _____ TO STA _____

TOTAL SHEETS	NO.
64	23
SECTION	NO.
DE BRIDGE REPAIR 2019-2	12
COUNTY	NO.
WHITE	12
CONTRACT NO.	78630
ILLINOIS FED. AID PROJECT	

Notes:
 The Deck Repair Quantities were estimated by
 Field Inspection in February 2018.
 The Resident Engineer will determine final patch
 locations and quantities in the field.



Deck Slab Repair (Partial)

Number	Length (ft)	Width (ft)	Area (Sq Yd)
10	4	3	1.3

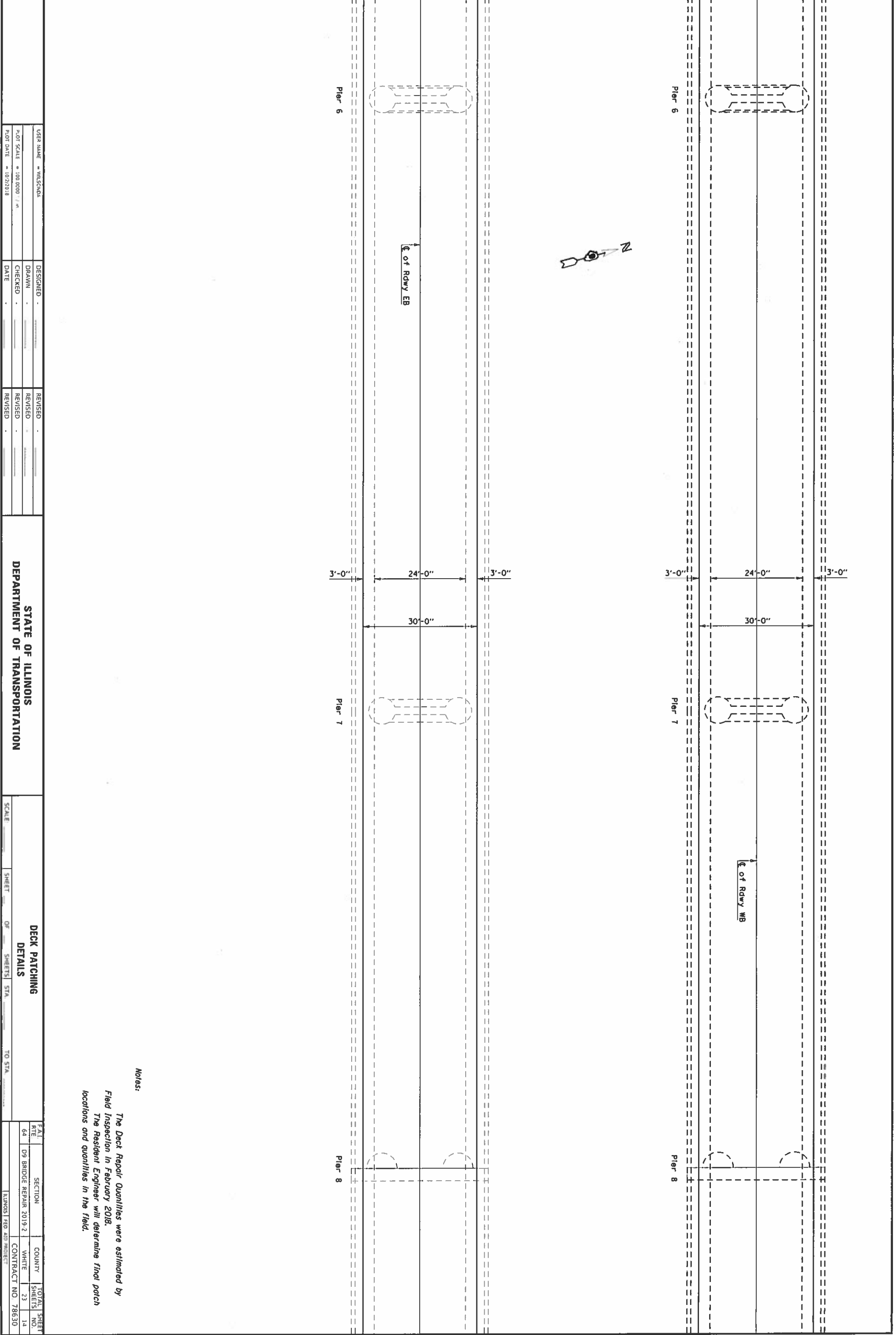
USER NAME = WILSONDA	DESIGNED -	REVISIONS
PROJECT SCALE = 1/8" = 1'-0"	CHECKED -	REVISIONS
PROJECT DATE = 10/2/2018	DATE -	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE _____ SHEET _____ OF _____ SHEETS STA _____ TO STA _____

F&I FILE NO. 64	SECTION 09 BRIDGE REPAIR 2019 2	COUNTY WHITE	TOTAL SHEETS 23
CONTRACT NO. 78630			SHEET NO. 13

Notes:
 The Deck Repair Quantities were estimated by
 Field Inspection in February 2018.
 The Resident Engineer will determine final patch
 locations and quantities in the field.



Notes:

The Deck Repair Quantities were estimated by
 Field Inspection in February 2018.
 The Resident Engineer will determine final patch
 locations and quantities in the field.

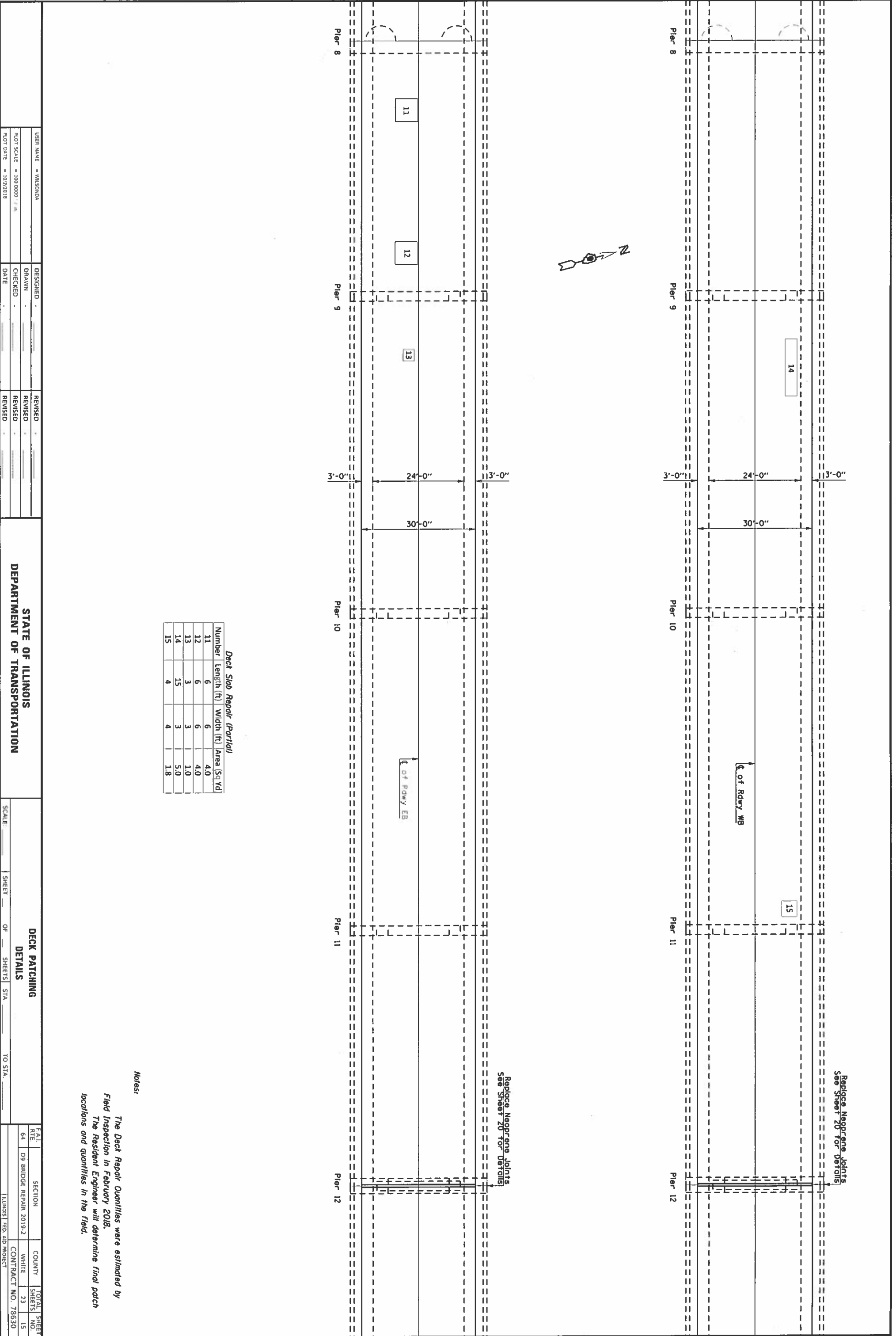
USER NAME	WLSCHMDS	DESIGNED		REUSED	
PLOT SCALE	1:100.0000 / 1" = 100'-0"	DRAWN		REUSED	
PLOT DATE	10/22/2018	CHECKED		REUSED	
		DATE		REUSED	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE		SHEET	OF	SHEETS	STA.	TO STA.
-------	--	-------	----	--------	------	---------

**DECK PATCHING
 DETAILS**

FAI RTE	SECTION	COUNTY	TOTAL SHEET NO.
64	09 BRIDGE REPAIR 2019 2	WHITE	23
		CONTRACT NO	78630
ILLINOIS FED AID PROJECT			



Deck Slab Repair (Partial)

Number	Length (ft)	Width (ft)	Area (Sq Yd)
11	6	6	4.0
12	6	6	4.0
13	3	3	1.0
14	15	3	5.0
15	4	4	1.8

USER NAME	DESIGNED	REVISION
WILSONDA	DAVAM	REVISION
SCALE = 1/8" = 1'-0"	CHECKED	REVISION
DATE = 10/22/2018	DATE	REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

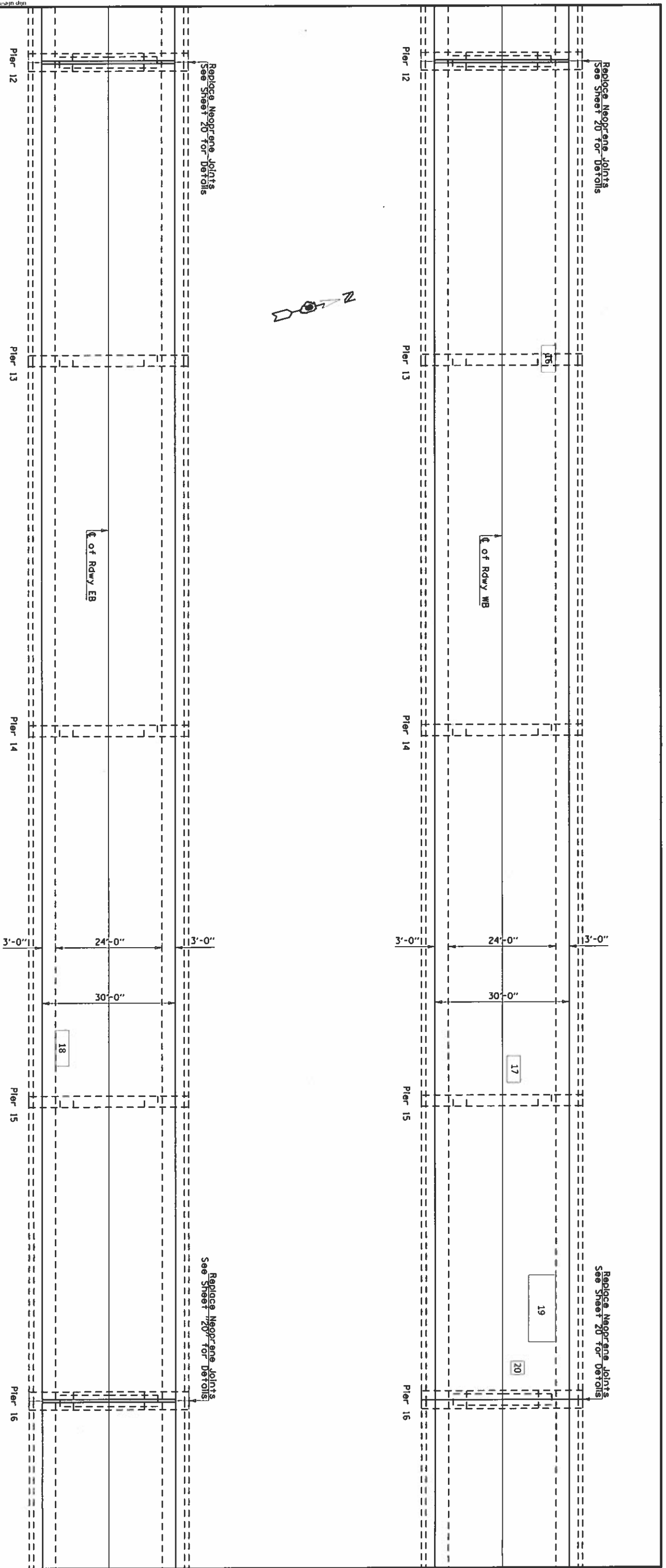
DECK PATCHING
 DETAILS

SCALE _____ SHEET _____ OF _____ SHEETS STA _____ TO STA _____

FAI	SECTION	COUNTY	TOTAL SHEETS
64	D9 BRIDGE REPAIR 2019-2	WHITE	23
			15

ILLINOIS FED. AID PROJECT

Notes:
 The Deck Repair Quantities were estimated by
 Field Inspection in February 2018.
 The Resident Engineer will determine final patch
 locations and quantities in the field.



Deck Slab Repair (Partials)

Number	Length (ft)	Width (ft)	Area (Sq Yd)
16	6	3	2.0
17	6	3	2.0
18	8	3	2.7
19	15	6	10.0
20	3	3	1.0

Notes:

The Deck Repair Quantities were estimated by
 Field Inspection in February 2018.
 The Resident Engineer will determine final patch
 locations and quantities in the field.

USER NAME = WILSONDA DRAWN = CHECKED = DATE = REVISIONS: REVISED = REVISED = REVISED =	DESIGNED = DRAWN = CHECKED = DATE = REVISED = REVISED = REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DECK PATCHING DETAILS SCALE _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____
PLOT SCALE = 1/8" = 100'-0" PLOT DATE = 10/2/2018	FAL RTE 64 SECTION D9 BRIDGE REPAIR 2019-2 COUNTY WHITE TOTAL SHEETS 23 SHEETS NO. 16 CONTRACT NO. 78630 ILLINOIS FED AID PROJECT	

USER NAME: *WILSONCA	DESIGNED: *	REVISOR: *
PROJECT: *100.0000 / 1"	DRAWN: *	CHECKED: *
DATE: *10/21/19	DATE: *	DATE: *

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DECK PATCHING
 DETAILS**

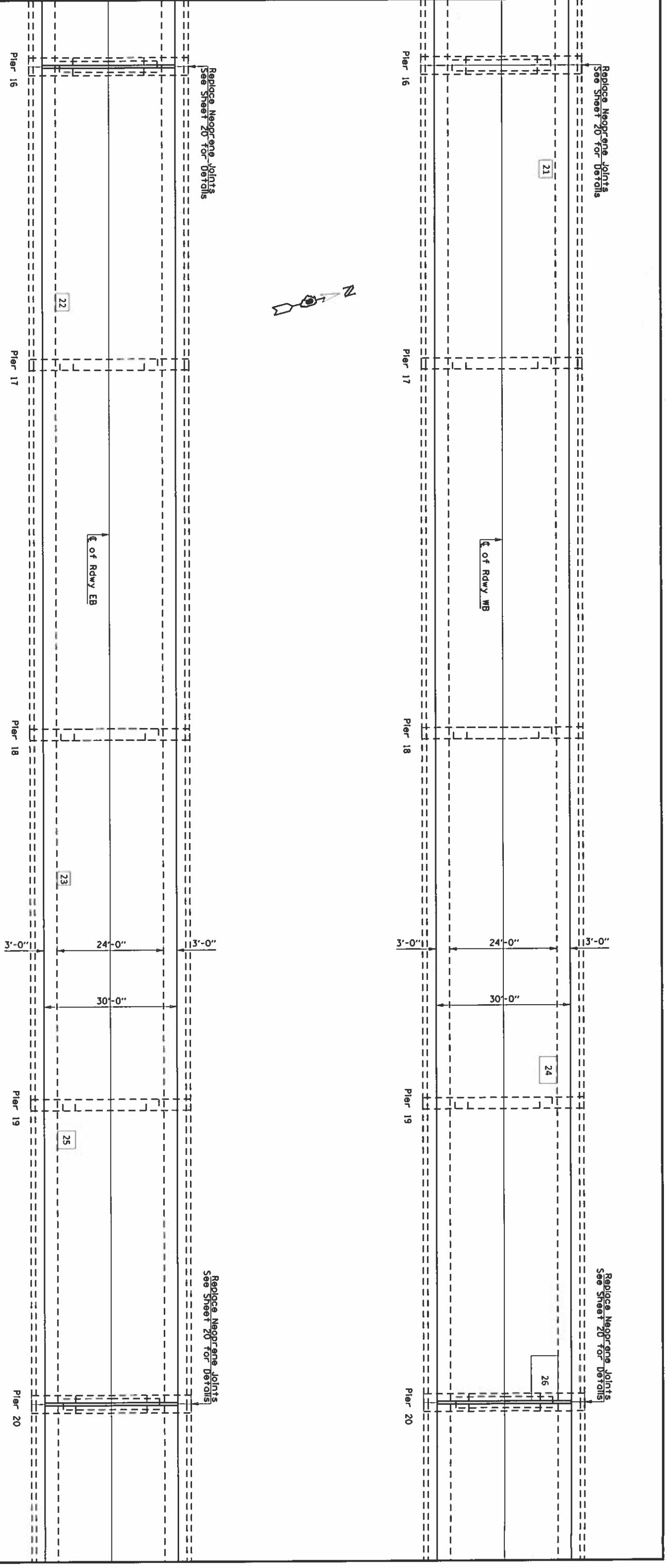
FAI NO: 64	SECTION: D9 BRIDGE REPAIR 2019-2	COUNTY: WHITE	TOTAL SHEET NO: 23
CONTRACT NO: 78630	REVISIONS: REP AND PROJECT		

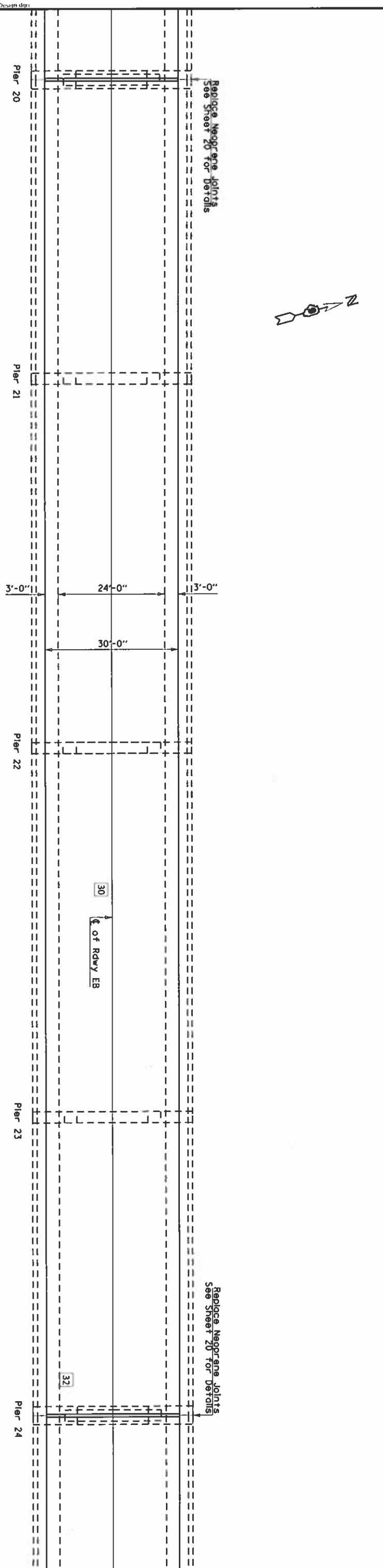
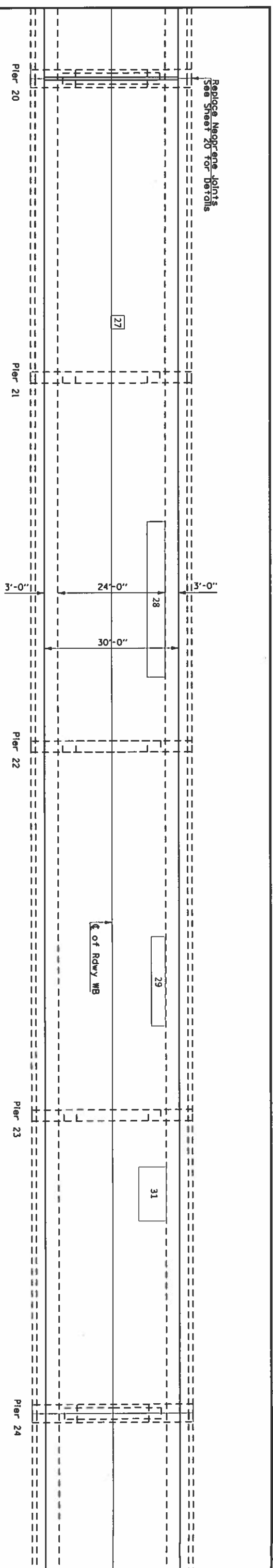
Deck Slab Repair (Partial)

Number	Length (ft)	Width (ft)	Area (Sq Yd)
21	4	3	1.3
22	4	3	1.3
23	3	3	1.0
24	6	4	2.7
25	4	4	1.8
26	10	6	6.7

Notes:

The Deck Repair Quantities were estimated by
 Field Inspection in February 2018.
 The Resident Engineer will determine final patch
 locations and quantities in the field.





Deck Slab Repair (Partial)

Number	Length (ft)	Width (ft)	Area (Sq Yd)
27	3	3	1.0
28	35	4	15.6
29	20	3	6.7
30	3	3	1.0
31	12	6	8.0
32	3	3	1.0

Notes:

The Deck Repair Quantities were estimated by
 Field Inspection in February 2018.
 The Resident Engineer will determine final patch
 locations and quantities in the field.

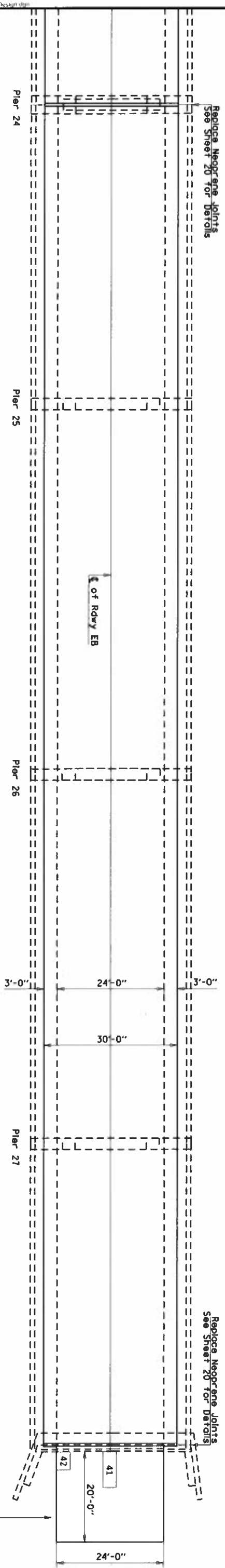
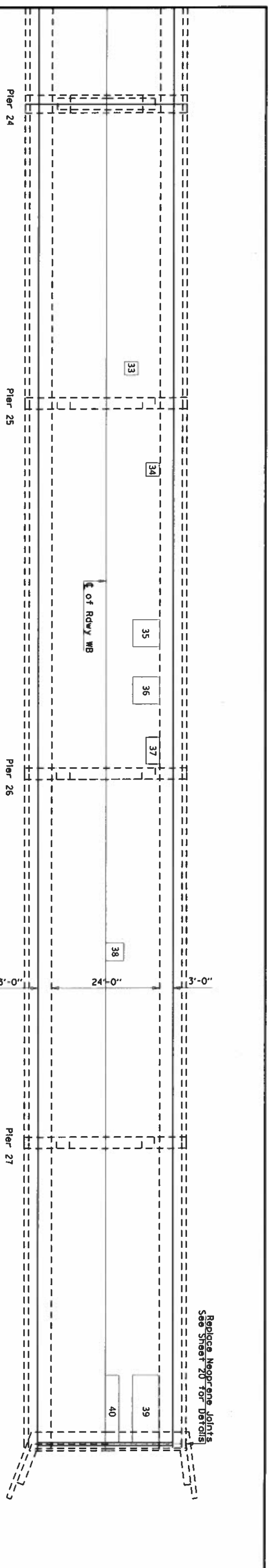
USER NAME	WILSONDA	DESIGNED		REVISED	
DRAWN		CHECKED		REVISID	
DATE		DATE		REVISID	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PATCHING
DETAILS

SCALE	SHEET	OF	SHEETS	STA.	TO STA.

FILE	SECTION	COUNTY	TOTAL SHEETS
64	D9 BRIDGE REPAIR 2019.2	WHITE	23
			18



Deck Slab Repair (Partial)

Number	Length (ft)	Width (ft)	Area (Sq Yd)
33	3	3	1.0
34	3	3	1.0
35	6	6	4.0
36	6	6	4.0
37	6	3	2.0
38	4	4	1.8
39	15	6	10.0
40	15	3	5.0

Approach Slab Repair (Partial Depth)

Number	Length (ft)	Width (ft)	Area (Sq Yd)
41	8	3	2.7
42	4	3	1.3

BILL OF MATERIALS

Item description	Unit	Total
Deck Slab Repair (Partial)	Sq. Yd.	169.9
Approach Slab Repair (Partial Depth)	Sq. Yd.	4

Notes:
 The Deck Repair Quantities were estimated by
 Field Inspection in February 2018.
 The Resident Engineer will determine final patch
 locations and quantities in the field.

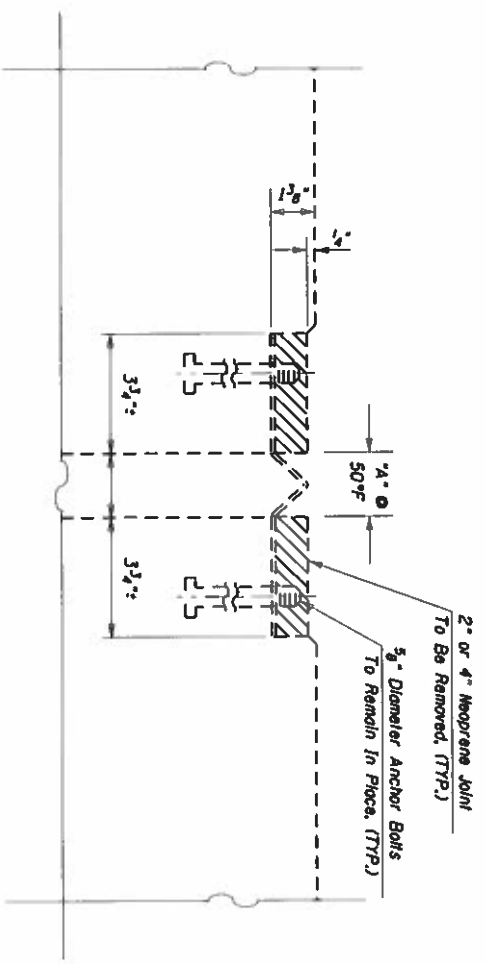
USER NAME = WILSONDA	DESIGNED	REVISION
PLOT SCALE = 100.0000 / 1" = 100.0000'	DRAWN	REVISION
PLOT DATE = 10/22/2018	CHECKED	REVISION
	DATE	REVISION

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

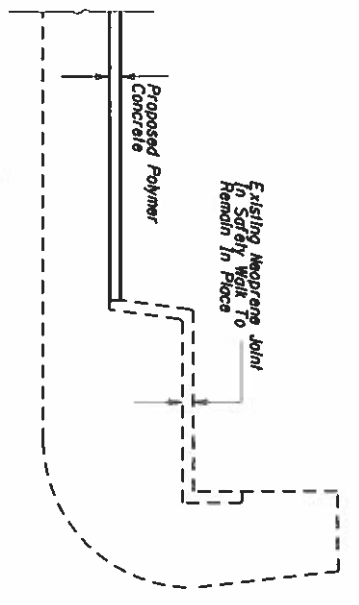
**DECK PATCHING
 DETAILS**

SCALE _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

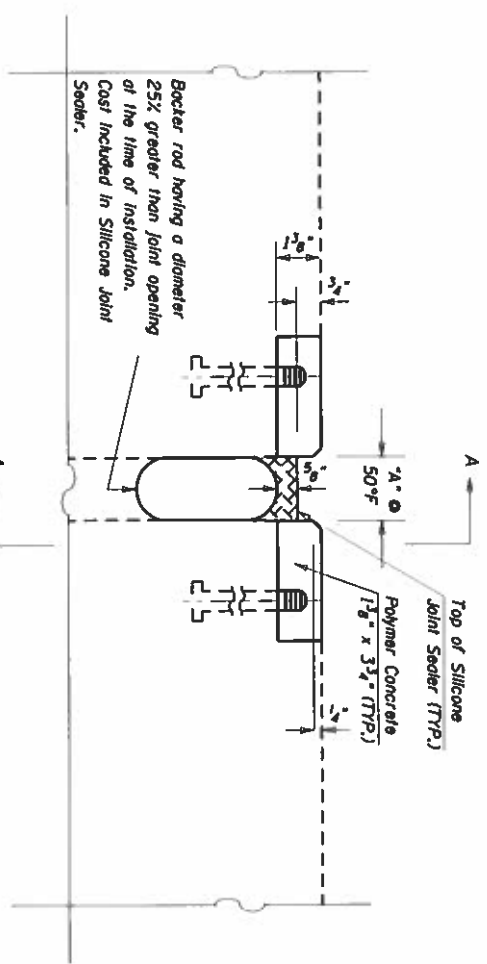
FBI	SECTION	COUNTY	TOTAL SHEET
64	D9 BRIDGE REPAIR 2019-2	WHITE	SHEETS NO. 23
			19
			CONTRACT NO. 78630
			ILLINOIS FED. AID PROJECT



*Existing Expansion Joint
At SN 097-0003, SN 097-0004
West Abutment, East Abutment
And Piers 12, 16, 20, 24*




Section A-A

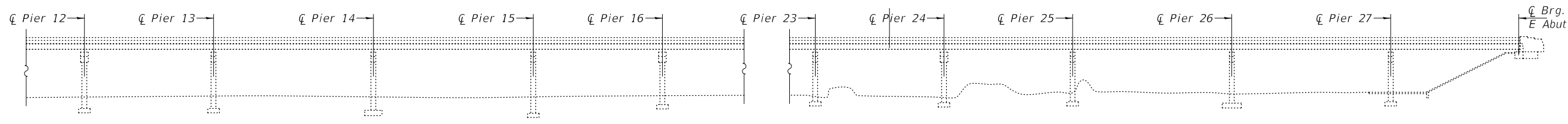


*Proposed Expansion Joint
At SN 097-0003, SN 097-0004
West Abutment, East Abutment
And Piers 12, 16, 20, 24*

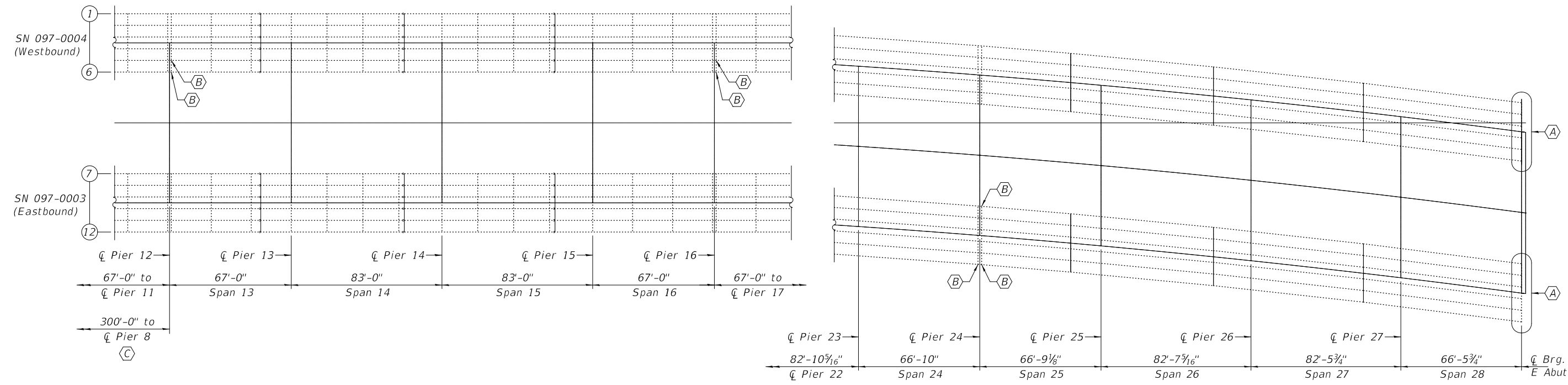
LOCATION	APPROXIMATE JOINT OPENING "A"	JOINT LENGTH
SN 097-0003 W. ABU.	3"	30'
SN 097-0003 PIER 12	# 3 1/2"	30'
SN 097-0003 PIER 16	4"	30'
SN 097-0003 PIER 20	# 3 1/2"	30'
SN 097-0003 PIER 24	# 3 1/2"	30'
SN 097-0003 E. ABU.	2"	30'
SN 097-0004 W. ABU.	2 1/2"	30'
SN 097-0004 PIER 12	# 3 1/2"	30'
SN 097-0004 PIER 16	4"	30'
SN 097-0004 PIER 20	# 3 1/2"	30'
SN 097-0004 PIER 24	4"	30'
SN 097-0004 E. ABU.	2"	30'

* Cost Included In Silicone Joint Sealer (Special)

 Cost of removing existing neoprene joint to be included in Polymer Concrete



PARTIAL ELEVATION PLAN

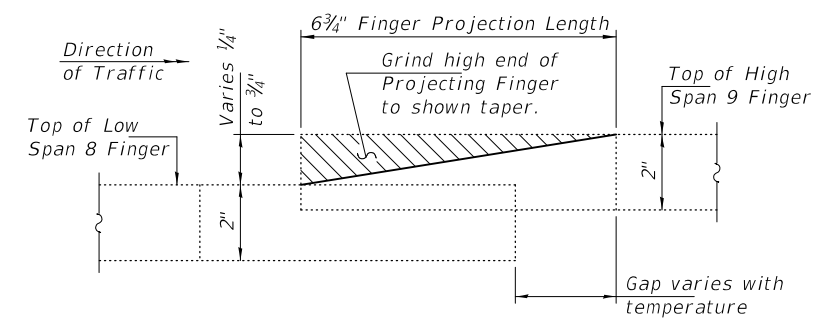


PARTIAL FRAMING PLAN

- (A) - Remove Existing Bearings and install new Elastomeric Bearings.
- (B) - Remove & Replace Existing Rocker Bearings.
- (C) - Adjustment to Finger Plate at Pier 8 (SN 097-0003)



FINGER PLATE AT PIER 8



FINGER PLATE GRINDING DETAIL

(Typical at 90 Fingers)
 (Typical Width of Finger = 1 3/4")
 (Cost included with Furnishing and Erecting Structural Steel)

NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 All new structural steel and bearing assemblies shall be hot-dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel."

BILL OF MATERIAL

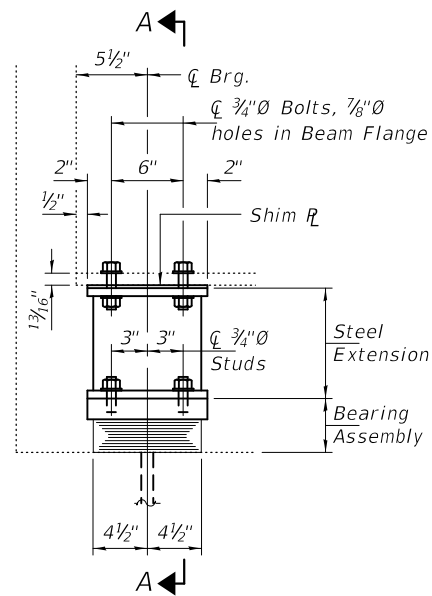
ITEM	UNIT	QUANTITY
Jack and Remove Existing Bearings	Each	19
Elastomeric Bearing Assembly, Type I	Each	12
Furnishing & Erecting Structural Steel	Pound	3610
Anchor Bolts, 1"Ø	Each	52

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i>	DATE - NOVEMBER 27, 2018
CHECKED - CDK	PASSED - <i>Carl R. Meyer</i>	REVISER -
DRAWN - STEFFEN	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -
CHECKED - JSB CDK		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

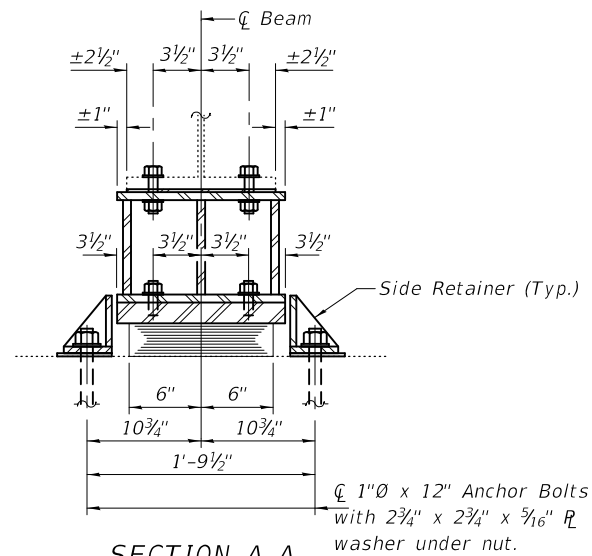
**GENERAL PLAN & ELEVATION
 OVER T.R. 422 & WABASH RIVER
 SN 097-0003 (E.B.) & -0004 (W.B.)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D-9 BRIDGE REPAIR 2019-2	WHITE	23	21
CONTRACT NO. 78630				
ILLINOIS FED. AID PROJECT				



ELEVATION AT ABUTMENT

TYPE I ELASTOMERIC EXP. BRG.

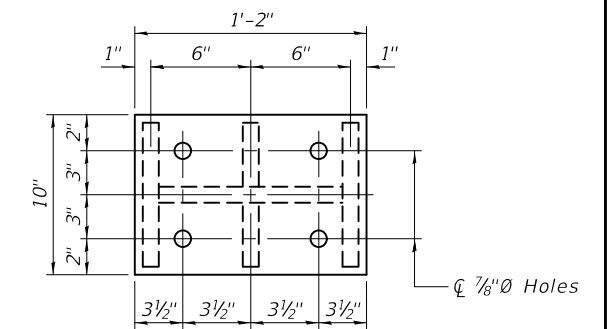


SECTION A-A

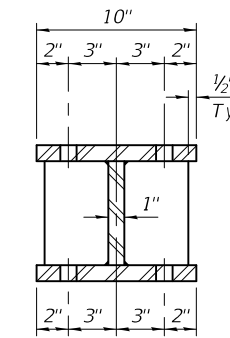
BEAM REACTIONS

R _l	(K)	22.9
R _t	(K)	43.4
Imp.	(K)	11.3
R (Total)	(K)	77.6

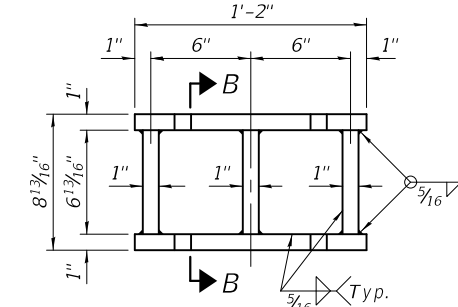
Notes:
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
 Min. jack capacity = 38 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=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I. Fasteners shall be high strength bolts.



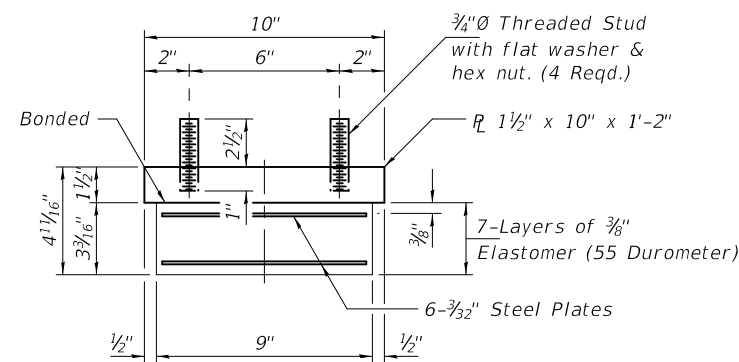
PLAN TOP AND BOTTOM PLATE



SECTION B-B

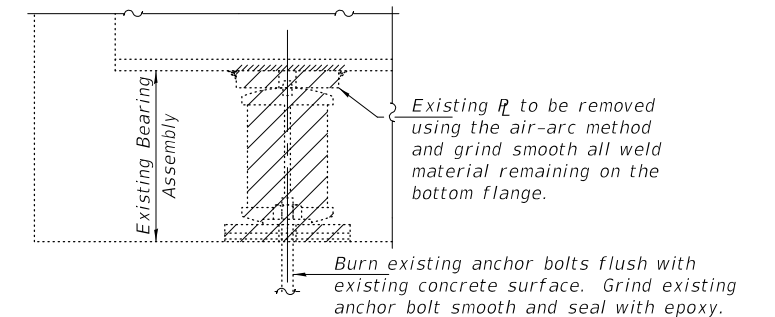


STEEL EXTENSION DETAIL



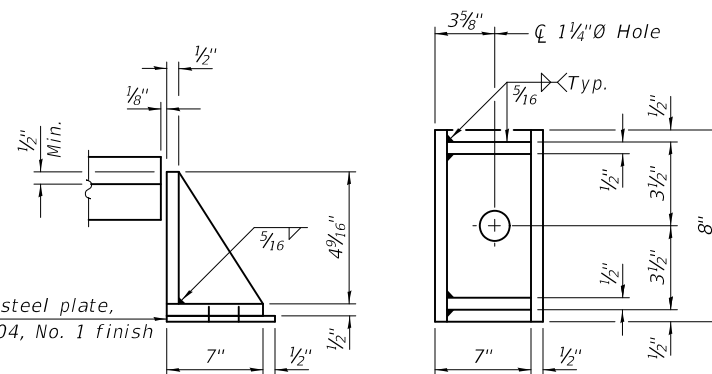
BEARING ASSEMBLY

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



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



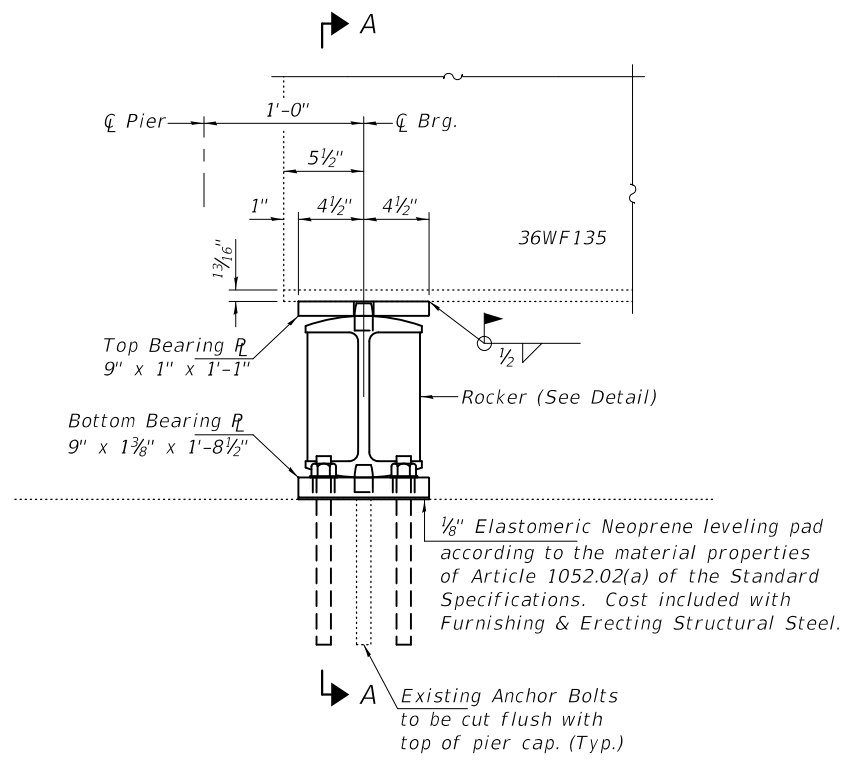
SIDE RETAINER

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

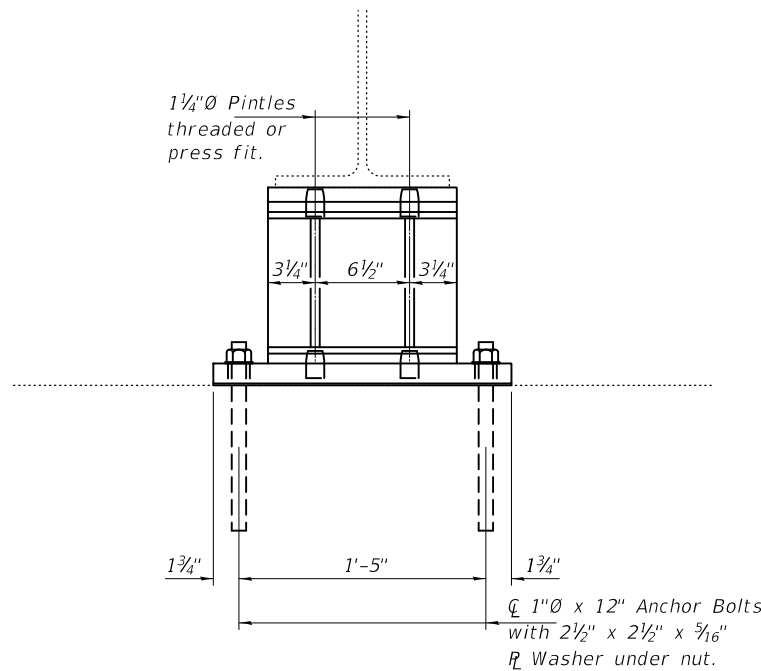
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	12
Jack and Remove Existing Bearings	Each	12
Furnishing and Erecting Structural Steel	Pound	1850
Anchor Bolts, 1"Ø	Each	24

TYI/REPS 5-17-2018



SECTION AT PIER



SECTION A-A

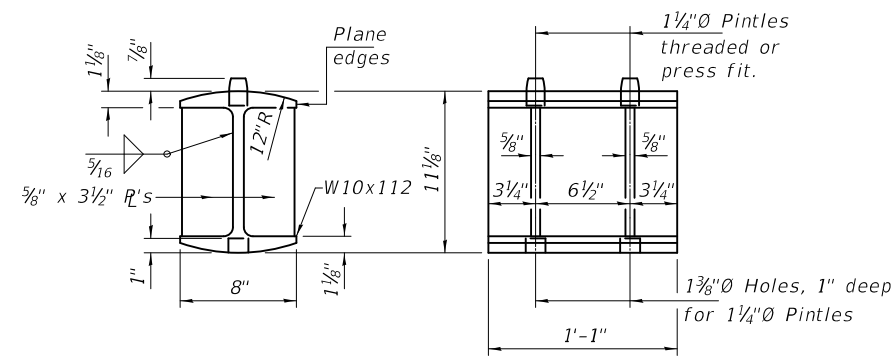
BEAM REACTIONS

R _P	(K)	22.9
R _L	(K)	43.4
Imp.	(K)	11.3
R (Total)	(K)	77.6

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 = 38 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=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Cost of bearing assemblies is included with Furnishing and Erecting Structural Steel.

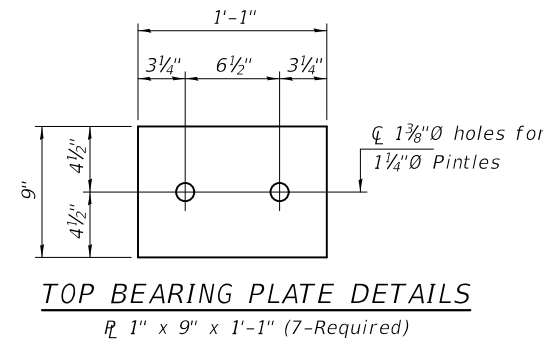
TABLES OF BEARING LOCATIONS

SN 097-0003 (E.B.)			SN 097-0004 (W.B.)		
SPAN	PIER	GIRDER	SPAN	PIER	GIRDER
24	24	12	13	12	5
25	24	7	13	12	6
25	24	12	17	16	5
-	-	-	17	16	6



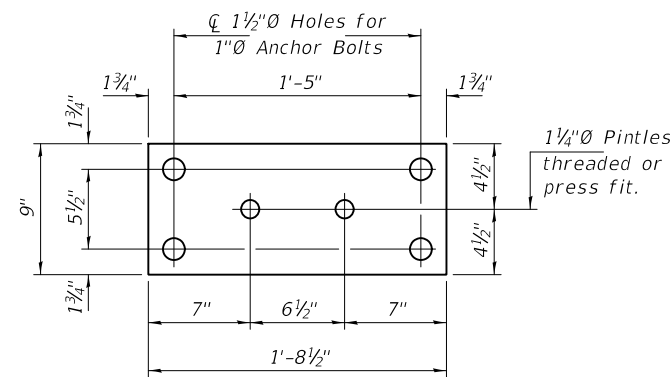
ROCKER DETAILS

(7-Required)



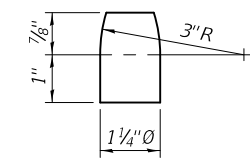
TOP BEARING PLATE DETAILS

R_L 1\"/>

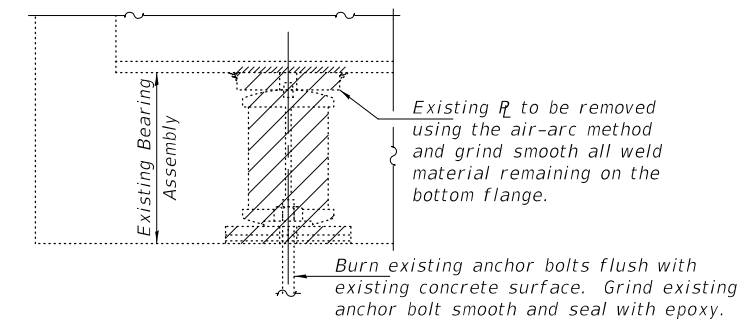


BOTTOM BEARING PLATE DETAILS

R_L 1 3/8\"/>



PINTLE DETAILS



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Structural Steel	Pound	1760
Jack and Remove Existing Bearings	Each	7
Anchor Bolts, 1\"/>	Each	28

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i>	DATE - NOVEMBER 27, 2018
CHECKED - CDK	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - STEFFEN	PASSED - <i>Carl Berger</i>	REVISED -
CHECKED - JSB CDK	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BEARING REPLACEMENT DETAILS AT PIERS 12, 16, & 24
SN 097-0003 (E.B.) & -0004 (W.B.)**

SHEET 3 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	D-9 BRIDGE REPAIR 2019-2	WHITE	23	23
CONTRACT NO. 78630				
ILLINOIS FED. AID PROJECT				