

				6-00721-0000	
				90% FED 10% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	BRIDGE
				0059	0059
				069-0040	069-0041
X2140100	GRADING AND SHAPING DITCHES, SPECIAL	FOOT	668	256	412
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1431	715	716
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	0.5	0.5
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	24	12	12
Z0001905	STRUCTURAL STEEL REPAIR	POUND	1850	975	875
Z0012144	BRIDGE DECK SCARIFICATION 2 1/2"	SQ YD	2238	1119	1119
Z0012166	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 3/4"	SQ YD	2238	1119	1119
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2	0	2
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	39	8	31
Z0041895	POLYMER CONCRETE	CU FT	5.6	2.8	2.8
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	2337	1168	1169
Ø Z0076600	TRAINEES	HOUR	1500	1500	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0.5	0.5
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500	1500	
Z0065700	SLOPE WALL REPAIR	SQ YD	105	52.5	52.5



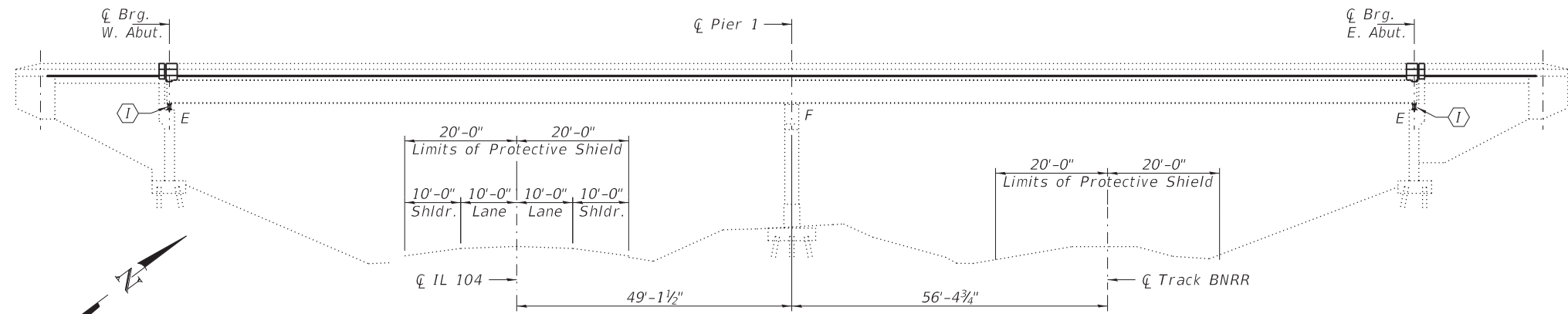
Ø 0042

△ REVISED 2-22-2022

REV. - MS

MODEL: Default  
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USER NAME = milesra	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULES</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 2.0000' / in.	DRAWN -	REVISED -						72	*	MORGAN	41	6
PLOT DATE = 12/17/2021	CHECKED -	REVISED -		SCALE: N/A    SHEET 4 OF 4 SHEETS    STA. N/A    TO STA. N/A				ILLINOIS FED. AID PROJECT		CONTRACT NO. 72M48		
	DATE -	REVISED -		* (69-8) BDR, BRR-2, SLP-1								



**ELEVATION**

**GENERAL NOTES**

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

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

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

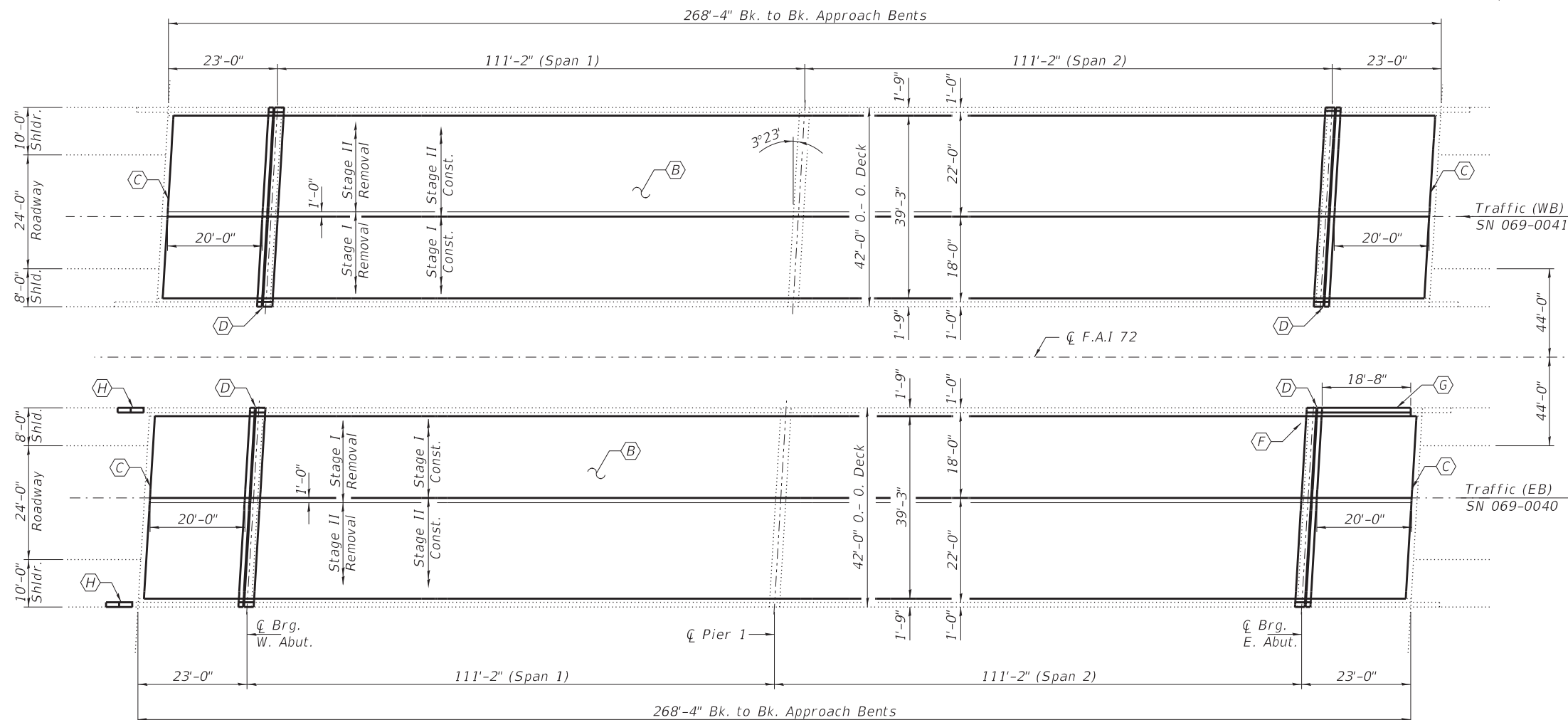
Reinforcement bars designated (E) shall be epoxy coated.

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

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

Traffic will be maintained using stage construction.

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



**PLAN**

- (A) - Deck Patching, see sheet 2 of 12.
- (B) - Scarify 2½" Deck, install 2½" Microsilica Concrete Overlay, see sheet 3 of 12.
- (C) - Polymer Concrete Nosing. See sheet 4 of 12 for details.
- (D) - Remove existing Joints and Install New Preformed Joint Strip Seal, see sheet 5 of 12.
- (E) - Splice Plate Repair. See sheet 7 of 12 for details.
- (F) - Girder End Repairs. See sheet 7 of 12 for details.
- (G) - Parapet Replacement, See sheet 8 of 12.
- (H) - Parapet Retrofit, See sheet 8 of 12.
- (I) - Remove Existing Abutment Bearings and Install New Elastomeric Bearings, Type I

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Polymer Concrete	Cu. Ft.	5.6
Bridge Deck Microsilica Concrete Overlay, 2½"	Sq. Yd.	2238
Diamond Grinding (Bridge Section)	Sq. Yd.	2337
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1431
Protective Shield	Sq. Yd.	747
Concrete Superstructure	Cu. Yd.	20.8
Concrete Removal	Cu. Yd.	17.7
Preformed Joint Strip Seal	Foot	163
Reinforcement Bars, Epoxy Coated	Pound	3840
Bridge Deck Scarification, 2½"	Sq. Yd.	2238
Elastomeric Bearing Assembly Type I	Each	24
Jack and Remove Existing Bearings	Each	24
Anchor Bolts 1"	Each	48
Structural Steel Repair	Pound	1850
Furnishing and Erecting Structural Steel	Pound	4690
Bar Splicers	Each	40
* Protective Coat	Sq. Yd.	2510
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2.2
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	39.3
Slope Wall Repair (4")	Sq. Yd.	105
Controlled Low Strength Material	Cu. Yd.	98

\* Apply to new concrete only including overlay.

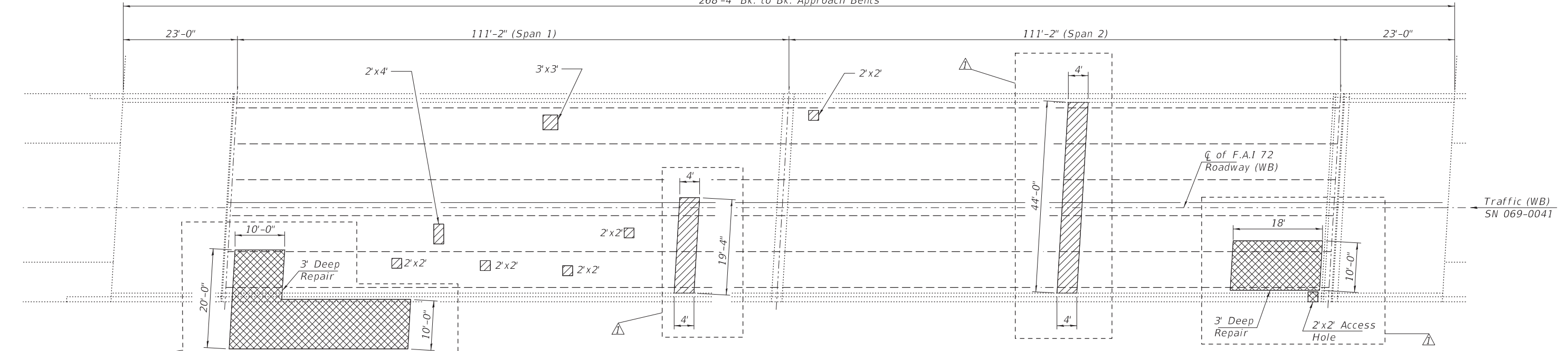


EXPIRES 11-30-2022

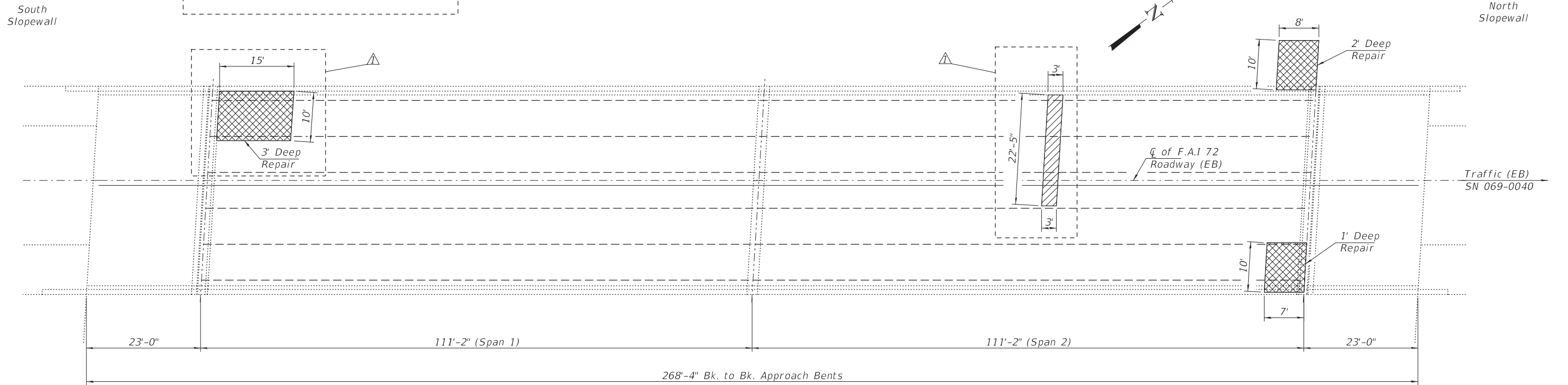
REVISD 2-22-2022

DESIGNED - Jeffrey S. Burke	EXAMINED - [Signature]	DATE - JANUARY 28, 2021	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN AND ELEVATION FAI 72 OVER IL 104 &amp; B&amp;N RR SN 069 - 0040 (EB) &amp; 0041 (WB)</b>	F.A.I. RTE. - 72	SECTION - (69-B)BDR, BRR-2, SLP-1	COUNTY - MORGAN	TOTAL SHEETS - 41	SHEET NO. - 30	
CHECKED - Adrian T. Holloway	PASSED - [Signature]	REVISD - VHV 02/17/22			CONTRACT NO. 72M48					
DRAWN - Venkat Ramana Reddy	ENGINEER OF BRIDGES AND STRUCTURES	REVISD -			SHEET NO. 1 OF 12 SHEETS					
CHECKED - JSB ATH	ENGINEER OF STRUCTURAL SERVICES				ILLINOIS FED. AID PROJECT					

268'-4" Bk. to Bk. Approach Bents



069-0041 (WB) PLAN



069-0040 (EB) PLAN

- Slopewall Repair to be filled with "Controlled Low Strength Material"
- Deck Slab Repair Full Depth

**BILL OF MATERIAL**

Item	Unit	Total
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2.2
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	39.3
Slopewall Repair (4")	Sq. Yd.	105
Controlled Low Strength Material	Cu. Yd.	98

REVISI 2-24-2022

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i>	DATE - JANUARY 28, 2021
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Venkat Ramana Reddy	PASSED - <i>Carl Ruyter</i>	REVISED - 02/23/2022 VHV
CHECKED - JSB ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

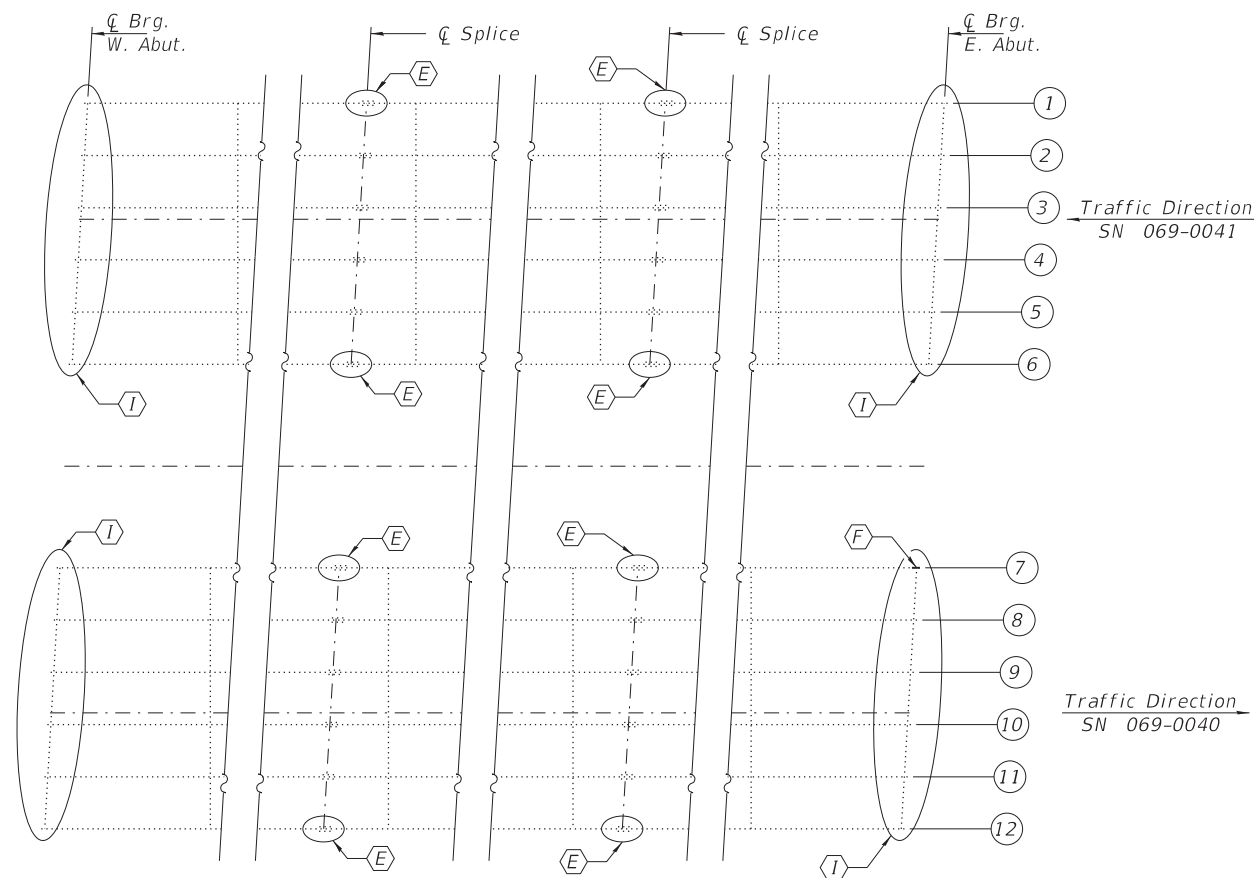
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SLOPEWALL REPAIR & DECK PATCHING - REPAIR A  
SN 069-0040 (EB) & 0041 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-8)BDR, BRR-2, SLP-1	MORGAN	41	31
CONTRACT NO. 72M48				

SHEET NO. 2 OF 12 SHEETS

ILLINOIS FED. AID PROJECT

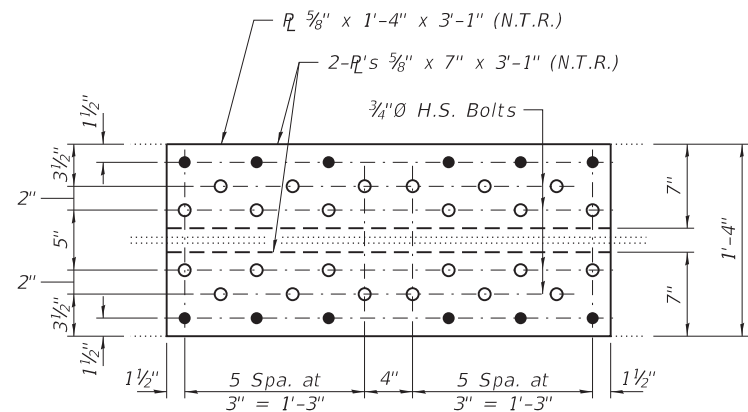


**PARTIAL FRAMING PLAN**

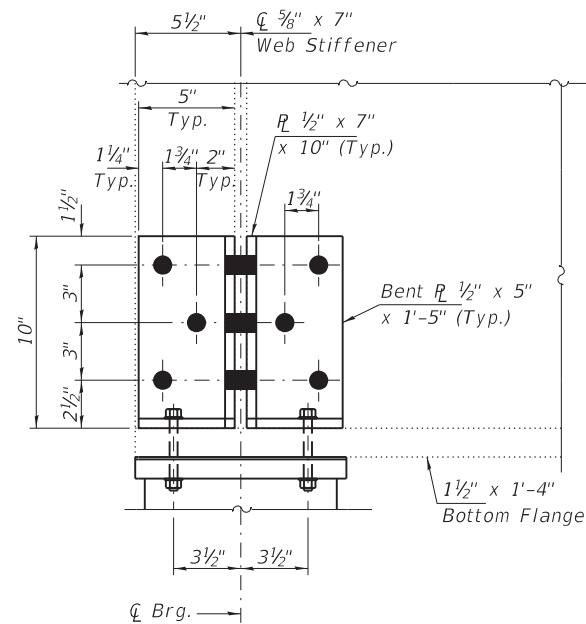
- (E) - Bottom Flange Splice Repair
- (F) - Girder End Repairs.
- (I) - See Sheet 9 of 12 for Bearing Replacement

**BOLT HOLE LEGEND**

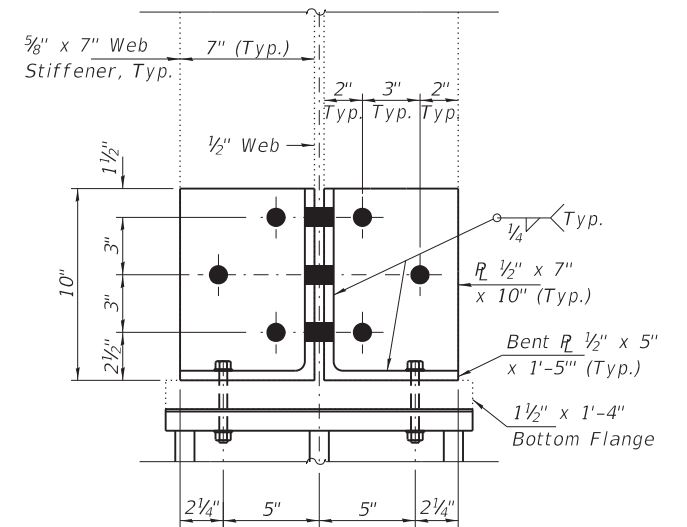
- - Field Drill holes in new steel using existing steel as template.
- - Shop Drill holes in new steel and use as a template to drill existing steel.



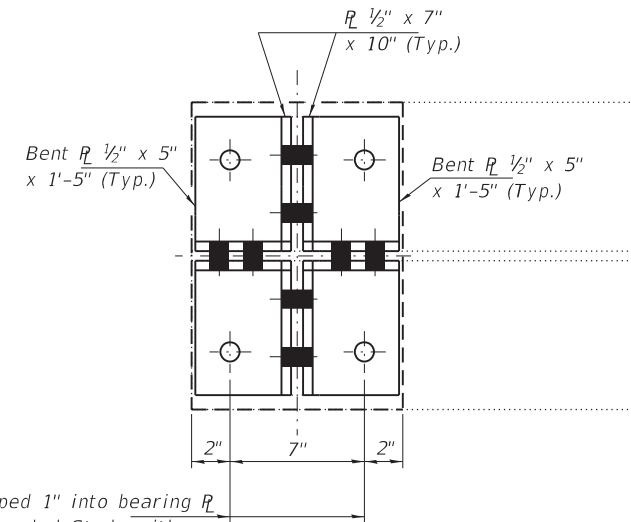
**REPAIR "E" - SPLICE DETAIL**  
(8 locations)



**REPAIR 'F'-ELEVATION**



**REPAIR 'F'-END SECTION**



**REPAIR 'F'-PLAN**

⌀ Holes tapped 1" into bearing R for 3/4"⌀ Threaded Studs with flat washer & hex nut. (4 Reqd.)

**NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.  
Fasteners shall be high strength bolts. Bolts 3/4"⌀, open holes 13/16"⌀, unless otherwise noted.  
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	1850

⚠ REVISION 2-22-2022