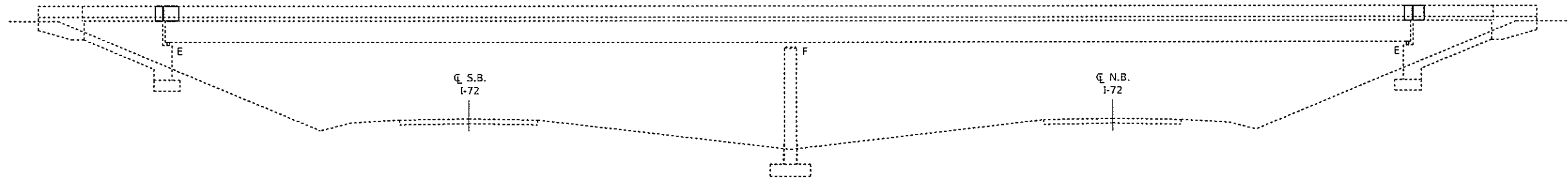
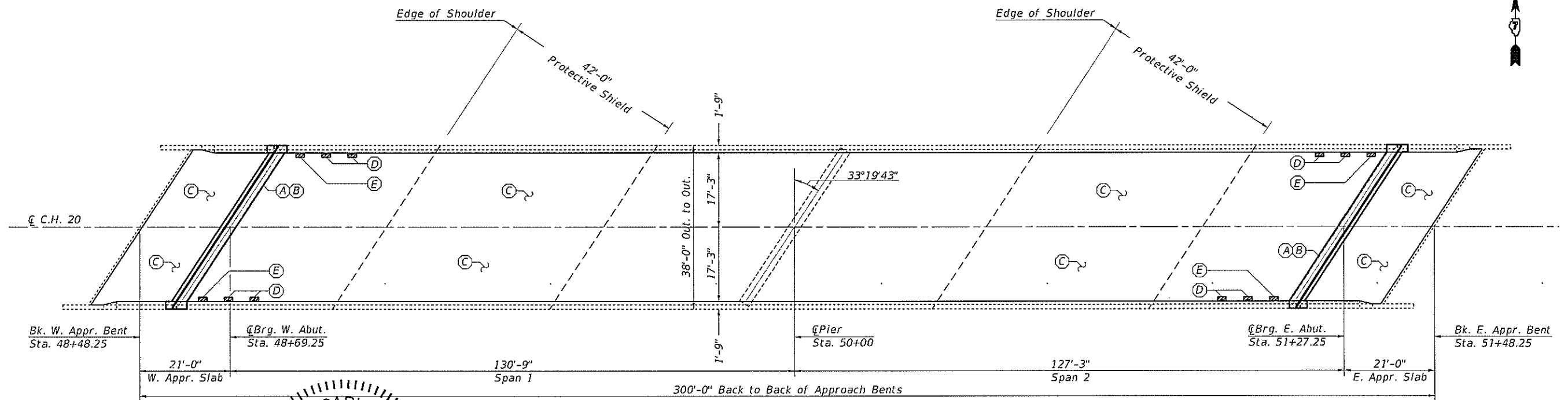


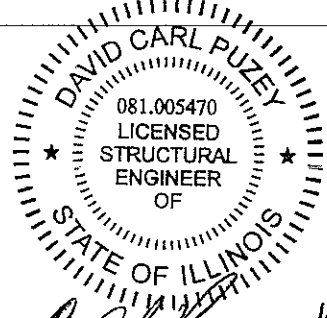
EXISTING STRUCTURE: SN 058-0089, built in 1975, is a 2 span bridge carrying C.H. 20 over F.A.I. Rte. 72. The proposed project consists of replacement of the expansion joints with new strip seals, bearing replacement at abutments with new elastomeric bearings, replacement of deck drains, full and partial depth deck repairs, replacement of waterproofing membrane system and HMA surface and substructure repairs.



ELEVATION



PLAN



*David Carl Puzey* 12/24/2020  
Expires 11/30/2020

- (A) - Remove Existing neoprene Exp. Jt. and Install Preformed Strip Seal
- (B) - Remove Existing Abutment Bearings and Install new Elastomeric Bearings, Type I
- (C) - Remove and Replace Existing HMA Surface & Waterproofing Membrane System
- (D) - Remove and Replace Existing Deck Drains
- (E) - Remove Existing Deck Drain

REVISOR'S MARK: REVISED SHEET 2-20-2020

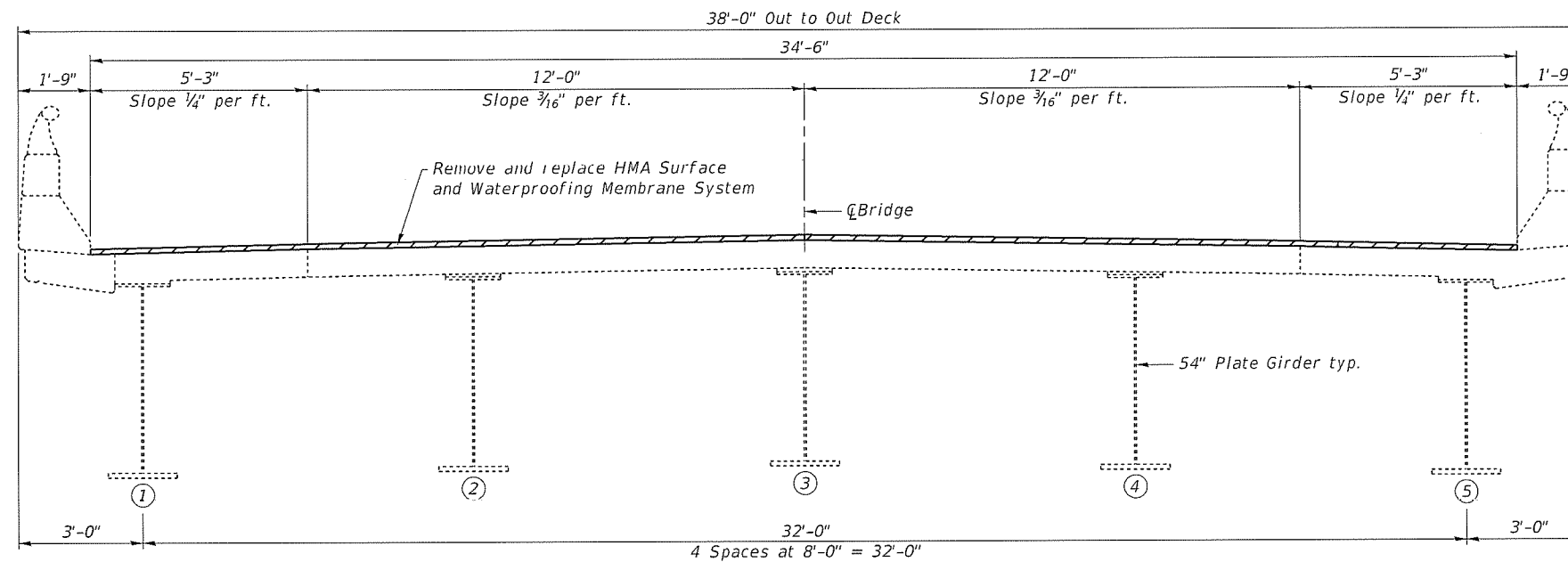
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PROJECT: 058-0089  
DRAWN: R. Walker  
CHECKED: D. Macklin  
DATE: 5/9/2019  
PLOT DATE: 12/10/2019

USER NAME = steffenmk	DESIGNED - R. Walker	REVISED - 11/19/2019
	DRAWN - R. Walker	REVISED -
PLOT SCALE = 100.0000 * 1 in.	CHECKED - D. Macklin	REVISED -
PLOT DATE = 12/10/2019	DATE - 5/9/2019	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION	
SN 058-0089	
SCALE:	SHEET 1 OF 10 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2020-2	MACON	14	5
CONTRACT NO. 74910				
ILLINOIS FED. AID PROJECT				



**CROSS SECTION**  
(Looking East)

**GENERAL NOTES**

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

Reinforcement Bars designated (E) shall be epoxy coated.

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

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

Removal and reinstallation of the handrail sections and support posts at both abutments will be necessary for construction of the expansion joints. The existing handrail sections and support posts shall be reused. New bolts, shim plates and post support anchor assemblies, as detailed in the plans, are to be provided and installed for the replacement of the handrail sections. This work and all materials shall be included in the contract unit price for CONCRETE SUPERSTRUCTURE.

Protective Coat to be applied to areas of new concrete only.

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

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

It is anticipated that a full depth deck slab repair will be necessary at every location of floor drains to be replaced. Removal and disposal of the existing floor drains shall be included in the contract unit price for Deck Slab Repair (Full Depth, Type I).

Full depth deck slab repairs performed in the exterior bays of the bridge deck (between the parapet walls and the first interior beams) shall be limited to individual lengths no greater than 10'. In these portions of the deck, repair areas longer than 10' shall be divided into segments not greater than 10' in length, and the segments shall be poured in alternating sequence. Subsequent segments repaired in sequence shall not be removed until 72 hours shall have elapsed from the end of the previous, adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 650psi.

**STRUCTURE BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	10.6
Concrete Structures	Cu. Yd.	1.9
Concrete Superstructure	Cu. Yd.	10
Reinforcement Bars, Epoxy Coated	Pound	2190
Hot-Mix Asphalt Surface Removal, 2"	Sq. Yd.	1119
Hot-Mix Asphalt Surface Course, Mix "D", N90	Ton	95
Waterproofing Membrane System	Sq. Yd.	1127
Preformed Joint Strip Seal	Foot	88
Protective Coat	Sq. Yd.	25
Jack & Remove Existing Bearings	Each	10
Elastomeric Bearing Assembly, Type I	Each	10
Anchor Bolts, 1"Ø	Each	20
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	33
Deck Slab Repair (Partial)	Sq. Yd.	36
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5
Approach Slab Repair (Partial Depth)	Sq. Yd.	12
Protective Shield	Sq. Yd.	425
Floor Drains	Each	8

\* On new concrete areas only.

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USER NAME = steffennk	DESIGNED - R. Walker	REVISED - 11/19/2019
PLOT SCALE = 100.0000' / in.	DRAWN - R. Walker	REVISED -
PLOT DATE = 12/10/2019	CHECKED - D. Macklin	REVISED -
	DATE - 5/9/2019	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES & BILL OF MATERIAL**  
**SN 058-0089**

SCALE: SHEET 2 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2020-2	MACON	14	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74910	