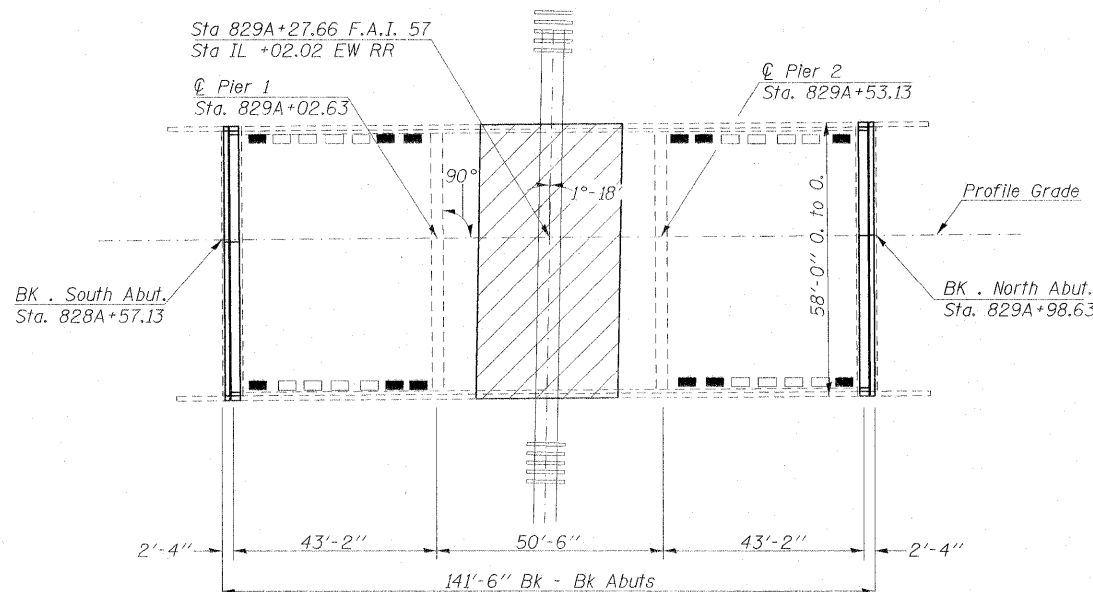
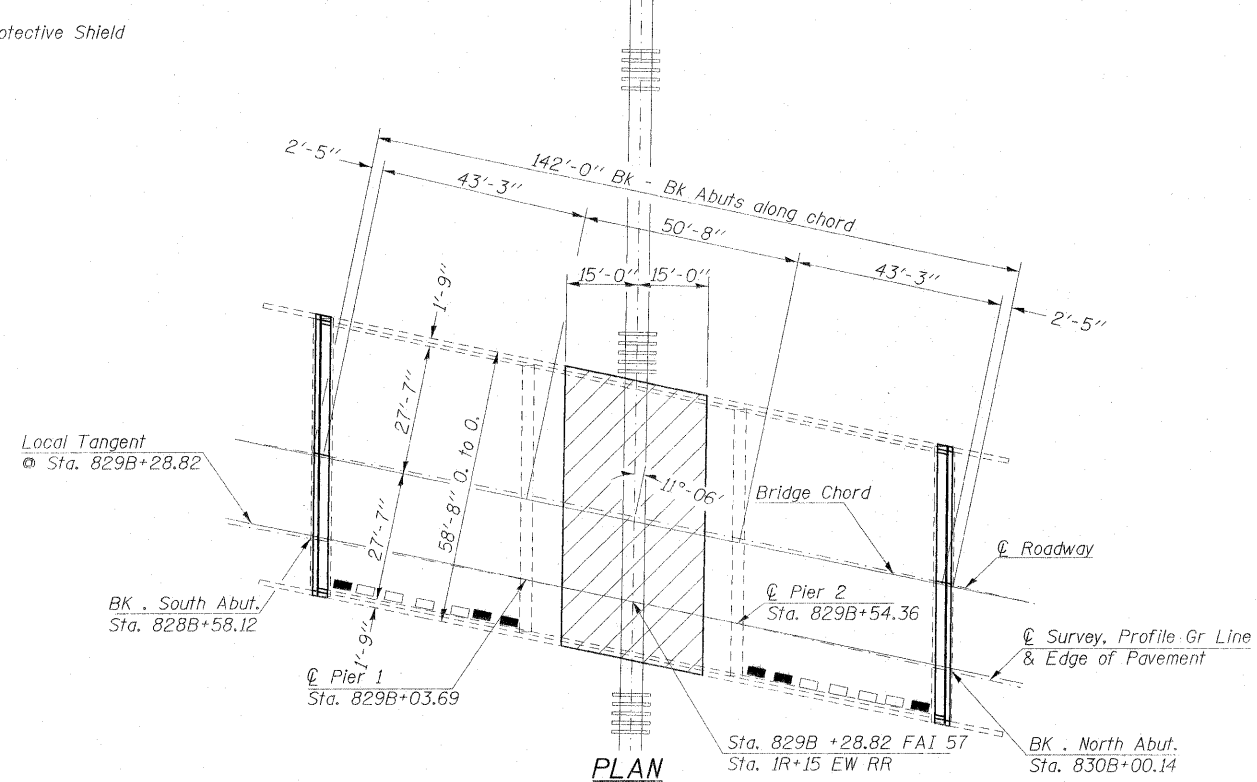


ELEVATION



- Floor Drain Extension
- Floor Drain Previously plugged
- Limits of Protective Shield



PLAN

GENERAL NOTES

All structural steel shall be AASHTO M 270 Grade 36 unless otherwise noted. No field welding is permitted except as specified in the contract documents. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions. Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring the new concrete deck section, 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. All structural steel shall be shop painted with inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel. If the analysis submitted to the Contractor for the jacking/temporary support system to be used show temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation. 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. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Existing structural steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Adjacent Areas of Existing Steel Structures". 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 Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	32.1
Concrete Superstructures	Cu. Yd.	32.1
Bridge Deck Grooving	Sq. Yd.	1629
Protective Shield	Sq. Yd.	394
Stud Shear Connectors	Each	192
Reinforcement Bars, Epoxy Coated	Pound	3170
Bar Splicers	Each	48
Preformed Joint Strip Seal	Foot	230
Floor Drain Extension	Each	24
HMA Surface Removal (Deck)	Sq. Yd.	1642
Bridge Deck Microsilica Concrete Overlay 2 3/4"	Sq. Yd.	1642
Bridge Deck Scarification 3/4"	Sq. Yd.	1642
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	13
Protective Coat	Sq. Yd.	81.7
Elastomeric Bearing Assembly, Type I	Each	8
Elastomeric Bearing Assembly, Type II	Each	8
Furnishing and Erecting Structural Steel	Pound	2280
Anchor Bolts, 1"	Each	32
Jack and Remove Existing Bearings	Each	16

* Protective coat to be applied to the areas of new concrete near the joints and the face and top of existing parapet.

Design Stresses

FIELD UNITS (New Construction)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 36,000$ psi (AASHTO M270 Gr. 36)

FIELD UNITS (Existing Construction)
 $f_c = 1,400$ psi (super & sub.)
 $f_s = 20,000$ psi (structural steel)
 $f_s = 20,000$ psi (reinforcement)
 $V_c = 75$ psi (Figs.)
 $n = 10$



David Carl Puzy 3/8/11
 Expires 11/30/2012

BRIDGE REPAIRS
FAI RT 57 OVER
EVANSVILLE WESTERN RAILROAD
JEFFERSON COUNTY
STA 829A+27.66 (SB) & 829B+28.82 (NB)
SN 041-0012 (NB)
SN 041-0013 (SB)