

**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 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 Contact Surface 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.

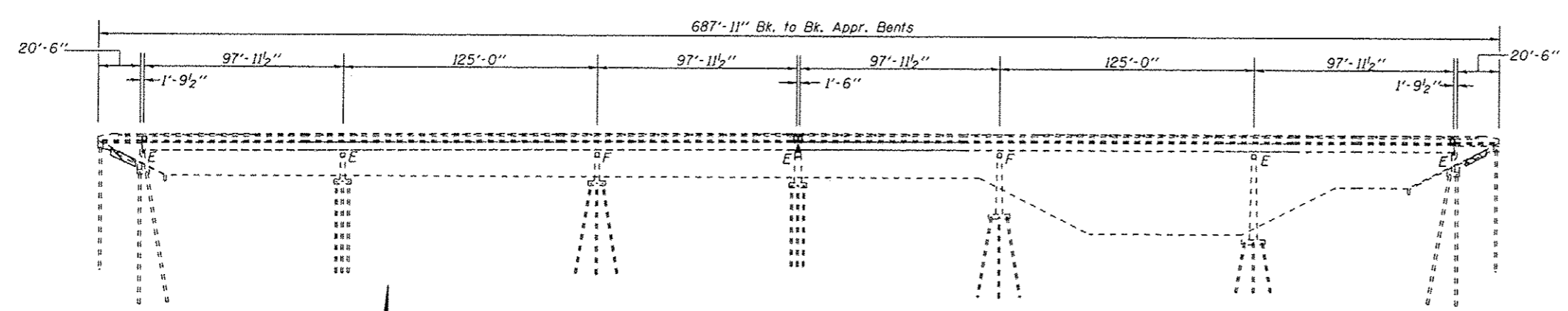
Deck Slab Repair (Partial) quantities have been estimated at 3% of the deck.

HMA Surface Removal (Deck) includes the removal of the existing HMA surface and the existing W.M.S.

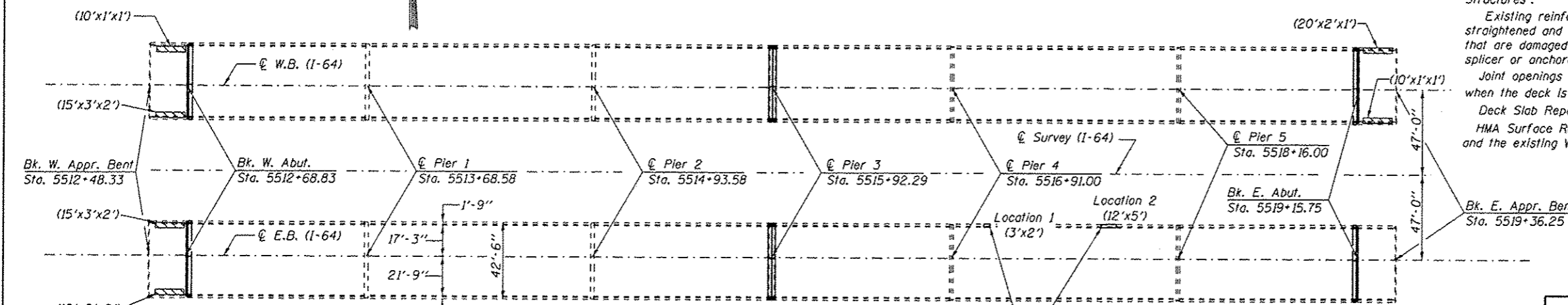
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Polymerized HMA Surface Course, Mix "D", N90	Ton	410
Waterproofing Membrane System	Sq. Yd.	5844
Reinforcement Bars, Epoxy Coated	Pound	5110
Bar Splacers	Each	88
Preformed Joint Strip Seal	Foot	267
Floor Drain Extension	Each	188
Plug Existing Deck Drains	Each	184
HMA Surface Removal (Deck)	Sq. Yd.	5844
Elastomeric Bearing Assembly, Type I	Each	24
Elastomeric Bearing Assembly, Type II	Each	24
Jack and Remove Existing Bearings	Each	48
Furnishing and Erecting Structural Steel	Pound	9670
Anchor Bolts 1 1/4" φ	Each	96
Concrete Removal	Cu. Yd.	38.4
Concrete Superstructure	Cu. Yd.	37.7
Structural Repair of Concrete (Depth ≤ 5 Inches)	Sq. Ft.	84
Controlled Low-Strength Material	Cu. Yd.	11
Deck Slab Repair (Partial)	Sq. Yd.	176

**BRIDGE REPAIR**  
**FAI RT 64 OVER LITTLE WABASH RIVER**  
**WHITE COUNTY**  
**SECTION (97-2-1)RS-1; BSMART 2012-2**  
**STA. 5517+65**  
**SN 097-0038 (EB) SN 097-0039 (WB)**



**ELEVATION**



**PLAN**

Structural Repair of Concrete (Depth ≤ 5 Inches) see details on sheet 11

Controlled Low-Strength Material (inside of vault)

**Scope of Work**

- Setup Traffic Control with barrier
- Remove existing HMA overlay and WMS.
- Complete deck slab patching
- Perform work at joints, bearings, CLSM and patching
- Lay WMS and HMA overlay
- Switch stages and repeat



*David Carl Puzey* 11/22/13  
 Expires 11/30/14

**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 (Ftgs.)  
 $n = 10$