

GENERAL PLAN

S.N. 092-0048

Existing Structure:

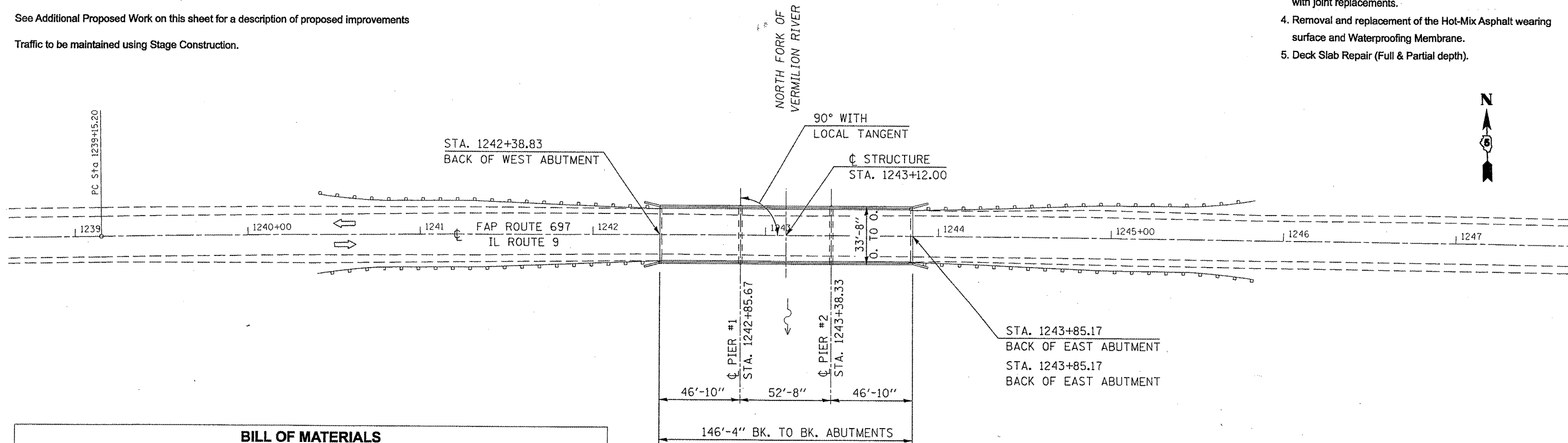
The existing three-span structure was built in 1967 as S.B.I. Route 9, Section 46-BR. The 7 inch R.C. slab superstructure is supported by 30 WF 99 steel beams. The structure is 146'-4" Back to back of Abutments and has an Out to Out width of 33'-8"

See Additional Proposed Work on this sheet for a description of proposed improvements

Traffic to be maintained using Stage Construction.

ADDITIONAL PROPOSED WORK:

1. Removal and replacement of abutment bearings.
2. Removal and Replacement of expansion joints at abutments.
3. Concrete removal and replacement at deck ends in conjunction with joint replacements.
4. Removal and replacement of the Hot-Mix Asphalt wearing surface and Waterproofing Membrane.
5. Deck Slab Repair (Full & Partial depth).



PLAN VIEW
S. N. 092-0048

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts 3/4" dia., open holes 13/16" dia., 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 furnished based at the unit price bid for the work.

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.

The deck ends, hatch blocks and approach pavement shall have its final surface tined according to Article 420.09 (e) (1) of the Standard Specifications. Cost to be included with concrete superstructure.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

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, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surface 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.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provisions "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.

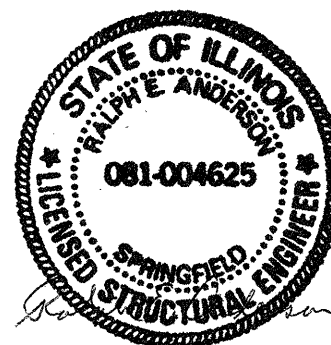
Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50 degrees F.

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

BILL OF MATERIALS		
ITEM	UNITS	QUANTITY
BITUMINOUS MATERIALS (PRIME COAT)	GALLON	48.0
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	41.0
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	483.0
CONCRETE REMOVAL	CU YD	8.7
CONCRETE SUPERSTRUCTURE	CU YD	9.3
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	6.0
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	6.0
FURNISHING & ERECTING STRUCTURAL STEEL	POUND	1400.0
JACK & REMOVE EXISTING BEARINGS	EACH	12.0
REINFORCEMENT BARS, EPOXY COATED	POUND	980.0
BAR SPLICERS	EACH	22.0
PREFORMED JOINT STRIP SEAL	FOOT	72.0
ANCHOR BOLTS, 1"	EACH	24.0
WATERPROOFING MEMBRANE SYSTEM	SQ YD	473.0
REMOVE & RE-ERECT STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	60.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	2.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	12.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	10.0
DECK SLAB REPAIR (PARTIAL)	SQ YD	49.0

NOTE:

Quantities for Temporary Concrete Barrier, Relocate Temporary Concrete Barrier and Remove and Re-erect Steel Plate Beam Guardrail are included in the Roadway Plans.



Expires 11/30/2010

FILE NAME =	USER NAME = ceorlock_jd	DESIGNED - S. COOMBES	REVISED -
ce:\p\work\17W100T\CEARLOCKJD\dms87656	0590866-Hyd.dgn	DRAWN - J. PHILLIPS	REVISED -
	PLOT SCALE = 60.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/6/2009	DATE - 12-10-08	REVISED -

GENERAL PLAN S.N. 092-0048				
SCALE: 1"=30'	SHEET NO. 1 OF 17 SHEETS	STA. _____ TO STA. _____	F.A.P. RTE. 697	SECTION 46RS-8&1RS-2&46BDR
			COUNTY VERMILION	TOTAL SHEETS 75
			CONTRACT NO. 90866	SHEET NO. 40
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT _____				