

**SCOPE OF WORK**

- 1) Replace expansion joints
- 2) Seal joint between approach slab & vault slab
- 3) Bridge washing on deck, parapets and abutment seats
- 4) Seal deck and parapets with concrete sealer
- 5) Seal abutment seats with concrete sealer
- 6) Repair abutments
- 7) Install additional side retainers at abutment bearings
- 8) Place additional riprap along Northeast wingwall
- 9) Fill erosion hole underneath Northeast approach
- 10) Repair concrete curbs at Northeast and Southeast approach inlets

**GENERAL NOTES**

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, 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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

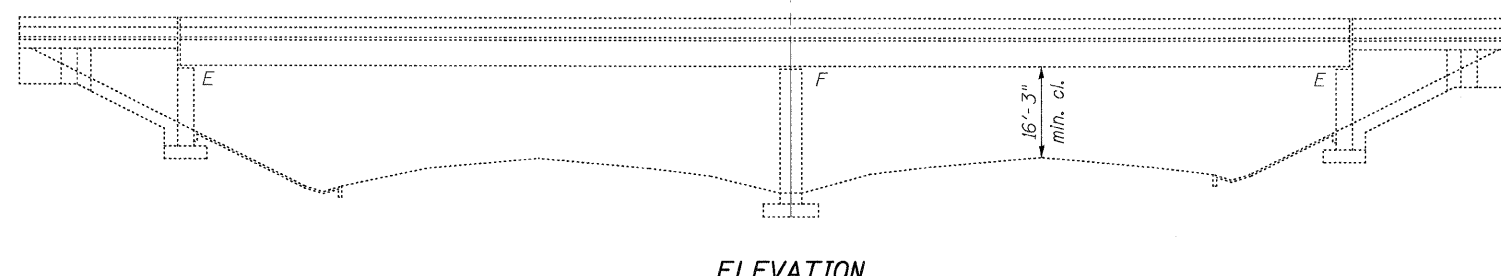
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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.

Bridge washing shall be performed on the deck, parapets and abutment seats according to Article 592.00 of the Standard Specifications.

Concrete Sealer shall be applied to the abutment seats. Concrete Sealer shall also be applied to the surfaces of the bridge deck and parapets including wings. See Special Provision for "Bridge Deck Concrete Sealer". New structural steel shall be cleaned and painted according to the special provision for "Cleaning and Painting New Metal Structures". New structural steel shall be fully shop painted with the Organic Zinc Rich Primer/Epoxy/Urethane paint system, final finish coat shall be Gray, Munsell No. 5B/7/1.

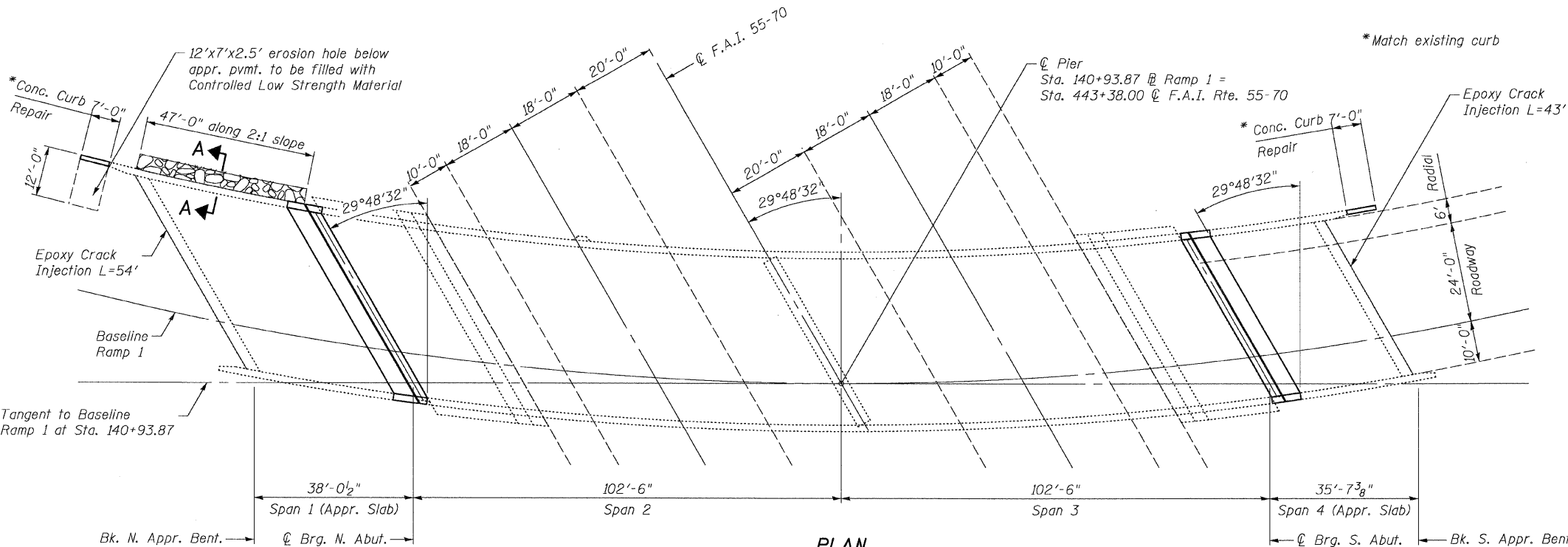
Joint openings shall be adjusted according to Art. 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.



**ELEVATION**

**INDEX OF SHEETS**

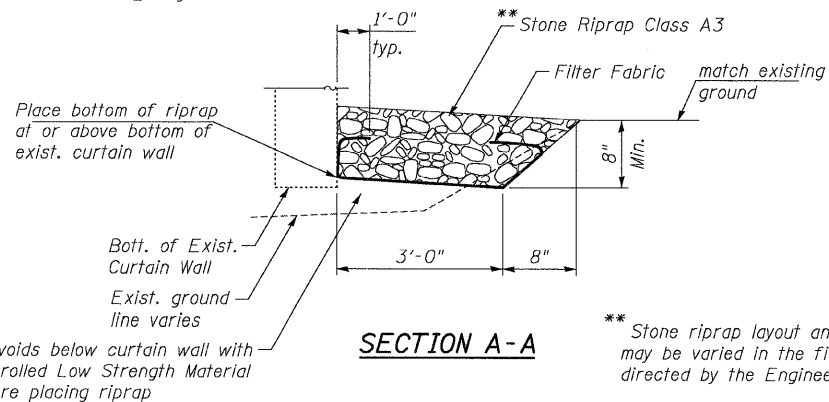
- 1 General Plan
- 2 Stage Construction Details
- 3 Concrete Removal Details
- 4-5 Superstructure Details
- 6 Preformed Joint Strip Seal
- 7 Side Retainer Details
- 8 Abutment Repair Details
- 9 Bar Splicer Details



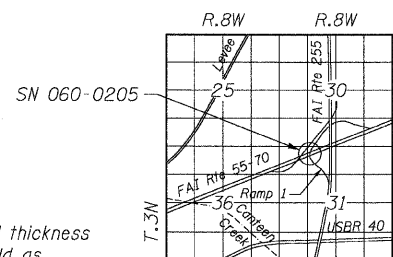
**PLAN**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Curb Repair	Foot	14		14
Controlled Low Strength Material	Cu. Yd.	8		8
Concrete Removal	Cu. Yd.	23.5		23.5
Concrete Superstructure	Cu. Yd.	23.5		23.5
Reinforcement Bars, Epoxy Coated	Pound	4900		4900
Bar Splicers	Each	48		48
Preformed Joint Strip Seal	Foot	99		99
Bridge Washing No. 4	Each			1
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.		17	17
Structural Repair of Concrete (Depth greater than 5")	Sq. Ft.		15	15
Furnishing and Erecting Structural Steel	Pound	175		175
Anchor Bolts, 1" dia.	Each	12		12
Epoxy Crack Injection	Foot	97		97
Stone Riprap Class A3	Sq. Yd.		19	19
Filter Fabric	Sq. Yd.		19	19
Concrete Sealer	Sq. Ft.	13451	236	13687



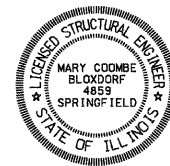
**SECTION A-A**



**LOCATION SKETCH**

**DESIGN SPECIFICATIONS**

1995 Seismic Retrofitting Manual for Highway Bridges



ILLINOIS STRUCTURAL NO. 4859  
EXPIRES 11/30/10  
DATE: 9/14/09

**GENERAL PLAN**  
**F.A.I. RTE. 255 RAMP 1 OVER**  
**F.A.I. RTE. 55-70**  
**STATION 140+93.87**  
**STRUCTURE NO. 060-0205**

**CB** Coombe-Bloxdorf P.C.  
- CIVIL ENGINEERS -  
- STRUCTURAL ENGINEERS -  
- LAND SURVEYORS -  
Design Firm License No. 184-002703

PROJECT NO. 05027-13  
SCALE:  
DATE: 4/24/09  
DESIGN BY: MCB  
DRAWN BY: CFC  
CHECKED BY: MCB

SHEET NO. 1  
9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(5,6,7)RS, 60-(6,7)BR	MADISON	185	97
CONTRACT NO. 76C56				
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

PLOT DATE = 09/14/2009  
 FILE NAME = I:\060205-16c56-01-general-plan.dgn  
 USER NAME = CFC