

GENERAL NOTES

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, 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.

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.

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.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.

Fasteners shall be high strength bolts. Bolts 3/4" φ, open holes 15/16" φ, unless otherwise noted. Bolts 7/8" φ, open holes 15/8" φ, unless otherwise noted.

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

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 Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection".

Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Grinding shall be done parallel to the longitudinal axis of the member. Ground surfaces shall be inspected for cracks using dye penetrant or magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair.

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.

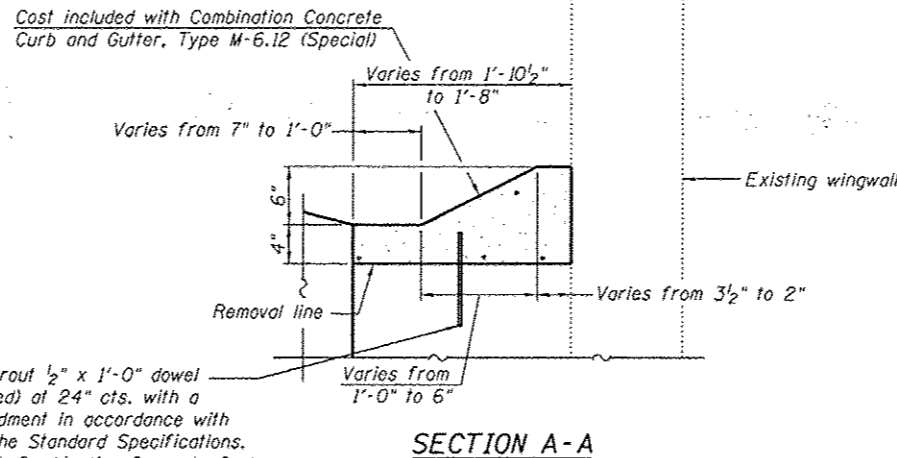
Diaphragm connection holes shall be 15/16" φ for 3/4" φ bolts. Two hardened washers shall be required at diaphragm connections.

SCOPE OF WORK

1. Remove and replace concrete deck and parapets adjacent to expansion joints in order to install preformed joint strip seal expansion joints.
2. Remove 3 1/2" of existing concrete overlay on bridge using Bridge Deck Scarification.
3. Repair deck slab.
4. Place 3 1/2" latex concrete overlay on bridge deck and perform bridge deck grooving. Apply protective coat to new concrete at abutment joints, front and top face of parapets of new concrete.
5. Remove and replace wearing surface on all approaches.
6. Jack and remove existing bearings at abutments and replace with elastomeric bearings.
7. Repair deteriorated concrete on substructure.
8. Remove and replace damaged portions of concrete slope walls.
9. Clean and reseal pavement relief joints at all approaches.
10. Remove or replace deck drains, as indicated.
11. Repair corroded steel on fascia beams, repair/replace steel with collision damage as indicated, and replace specified steel end diaphragms.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Bituminous Materials (Prime Coat)	Gallon	302	-	302
Hot-Mix Asphalt Surface Course, Mix "D", N50, 2"	Ton	135	-	135
Hot-Mix Asphalt Surface Removal, 2"	Sq. Yd.	605	-	605
Combination Curb and Gutter Removal	Foot	320	-	320
Concrete Removal	Cu. Yd.	29.0	-	29.0
Slope Wall Removal	Sq. Yd.	-	319	319
Protective Shield	Sq. Yd.	898	-	898
Concrete Superstructure	Cu. Yd.	29.2	-	29.2
Bridge Deck Grooving	Sq. Yd.	1741	-	1741
Protective Coat	Sq. Yd.	424	-	424
Reinforcement Bars, Epoxy Coated	Pound	2620	-	2620
Bar Splicers	Each	48	-	48
Slope Wall 4 Inch	Sq. Yd.	-	319	319
Preformed Joint Strip Seal	Foot	166	-	166
Elastomeric Bearing Assembly, Type II	Each	-	30	30
Anchor Bolts, 1"	Each	-	60	60
Combination Concrete Curb and Gutter, Type M-6.12 (Special)	Foot	320	-	320
Jack and Remove Existing Bearings	Each	30	-	30
Bridge Deck Latex Concrete Overlay 3 1/2"	Sq. Yd.	1807	-	1807
Structural Steel Repair	Pound	10610	-	10610
Beam Straightening	L. Sum	1	-	1
Bridge Deck Scarification 3 1/2"	Sq. Yd.	1807	-	1807
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	-	702	702
Structural Repair of Concrete (Depth Greater than 5 inches)	Sq. Ft.	-	77	77
Floor Drains	Each	24	-	24
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	54	-	54
Clean & Reseal Relief Joint	Foot	136	-	136
Remove and Reerect Steel Plate Beam Guardrail, Attached to Structures	Foot	48	-	48
Approach Slab Repair (Partial Depth)	Sq. Yd.	-	19	19
Temporary Shoring & Cribbing	L. Sum	1	-	1
Furnishing & Erecting Structural Steel	Pound	9740	3830	13570
Structural Steel Removal	Pound	9570	-	9570
Temporary Slab Support System	L. Sum	1	-	1
Overhead Sign Structure - Bridge Mounted	Foot	13.5	-	13.5
Sign Panel - Type 3	Sq. Ft.	94.5	-	94.5



Drill and epoxy grout 1/2" x 1'-0" dowel bars (epoxy coated) at 24" cts. with a minimum 9" embedment in accordance with Section 584 of the Standard Specifications. Cost included with Combination Concrete Curb and Gutter, Type M-6.12 (Special).

