

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 7/8 in.  $\phi$  holes 15/16 in.  $\phi$ , unless otherwise noted.

No field welding is permitted except as specified in the contract documents.  
The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.

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 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 can not be removed by grinding 1/4 in. 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.

If the Contractor elects to use cantilever forming brackets on the exterior beams, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

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 work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to the designated areas of the Substructure.

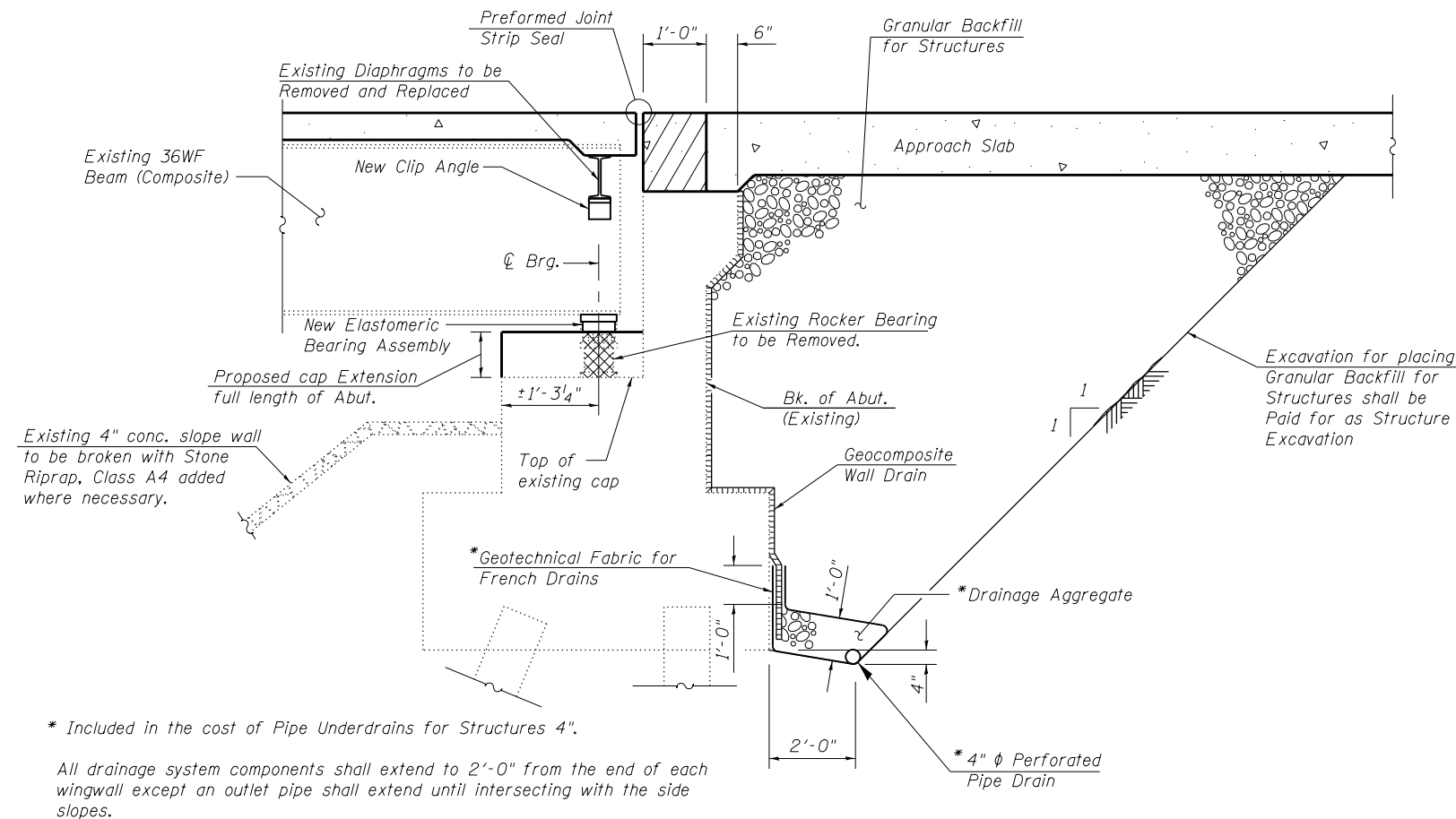
The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.

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

Cleaning and painting all of the structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning - SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1 OZ/E/U. The color of the final finish coat for all interior steel surfaces 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 Gray Munsell No. 5B 7/1.

The Organic Zinc Rich Primer / Epoxy / Urethane paint system shall be used for painting new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, and field installed fasteners all of which shall be touched up and finished coated in the field. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.

A minimum of 1 air monitor will be required to monitor abrasive blasting operations at this site. See Special Provision for "Containment and Disposal of Lead Paint Cleaning Residues."



\* Included in the cost of Pipe Underdrains for Structures 4".

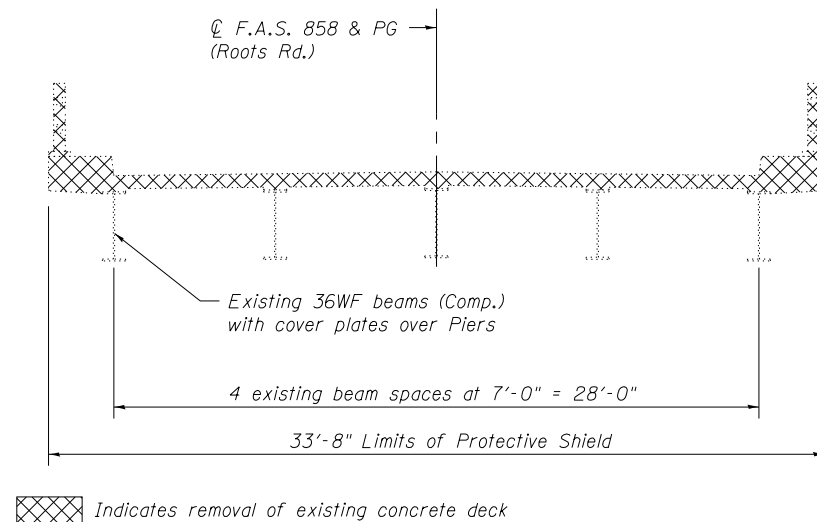
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes.

**SECTION THRU EXISTING ABUTMENT**

(Horiz. dim. @ Rt. L's)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		105	105
Stone Dumped Riprap, Class A4	Ton		300	300
Filter Fabric	Sq. Yd.		105	105
Concrete Removal	Cu. Yd.		18.6	18.6
Removal of Existing Concrete Deck	Each	1		1
Protective Shield	Sq. Yd.	303		303
Structure Excavation	Cu. Yd.		482	482
Concrete Structures	Cu. Yd.		79.2	79.2
Concrete Superstructure	Cu. Yd.	359.2		359.2
Bridge Deck Grooving	Sq. Yd.		904	904
Protective Coat	Sq. Yd.		1189	1189
Furnishing and Erecting Structural Steel	Pound	3500		3500
Stud Shear Connectors	Each	2445		2445
Reinforcement Bars, Epoxy Coated	Pound	92,180	5,730	97,910
Bar Splicers	Each		66	66
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	102		102
Elastomeric Bearing Assembly, Type I	Each	10		10
Elastomeric Bearing Assembly, Type II	Each	5		5
Anchor Bolts, 5/8"	Each	20		20
Anchor Bolts, 1"	Each	10		10
Concrete Sealer	Sq. Ft.		550.6	550.6
Geocomposite Wall Drain	Sq. Yd.		96	96
Slope Wall Breaking	Sq. Yd.	790		790
Granular Backfill for Structures	Cu. Yd.		215	215
Jack and Remove Existing Bearings	Each	5		5
Structural Steel Removal	Pound	5907		5907
Containment and Disposal of Lead Paint Cleaning Residues No.1	L. Sum	1		1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1		1
Pipe Underdrains for Structures 4"	Foot		102	102
Jacking and Cribbing	Each		10	10



**CROSS SECTION**  
(Showing Structure Removal)