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GENERAL NOTES:

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $^{7}/_{8}$" ϕ, holes $^{15}/_{16}$" ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 60,490 lb (AASHTO M270 Grade 50)
Calculated weight of Structural Steel = 6,410 lb (AASHTO M270 Grade 36)

No field welding is permitted except as specified in the contract documents.

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

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

All structural steel shall be galvanized according to the Special Provision "Hot Dip Galvanizing of Structural Steel." Cost included with Furnishing and Erecting Structural Steel.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with a reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

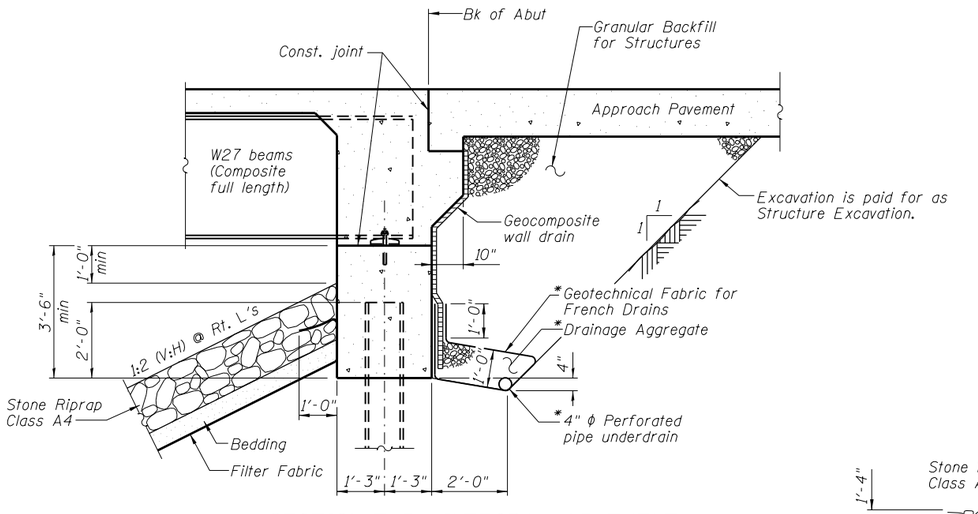
If the Contractor's procedures for existing deck beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures No. 2.

The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.

Slipforming of parapets is not allowed.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Granular Backfill for Structures	Cu. Yd.	---	70	70
Stone Riprap, Class A4	Sq. Yd.	---	1703	1703
Filter Fabric	Sq. Yd.	---	1703	1703
Removal of Existing Structures No. 2	Each	1	---	1
Structure Excavation	Cu. Yd.	---	69	69
Cofferdam Excavation	Cu. Yd.	---	369	369
Cofferdam (Type 2) (Location - 1)	Each	---	1	1
Cofferdam (Type 2) (Location - 2)	Each	---	1	1
Concrete Structures	Cu. Yd.	---	156.1	156.1
Concrete Superstructure	Cu. Yd.	146.8	---	146.8
Bridge Deck Grooving	Sq. Yd.	565	---	565
Seal Coat Concrete	Cu. Yd.	---	92.4	92.4
Protective Coat	Sq. Yd.	723	---	723
Concrete Superstructure (Approach Slab)	Cu. Yd.	99.0	---	99.0
Furnishing and Erecting Structural Steel	L. Sum	1	---	1
Stud Shear Connectors	Each	3402	---	3402
Reinforcement Bars, Epoxy Coated	Pound	62,210	14,420	76,630
Furnishing Steel Piles HP12x53	Foot	---	310	310
Furnishing Steel Piles HP12x63	Foot	---	320	320
Driving Piles	Foot	---	630	630
Test Pile Steel HP12x53	Each	---	2	2
Test Pile Steel HP12x63	Each	---	2	2
Name Plates	Each	1	---	1
Anchor Bolts, 5/8"	Each	---	24	24
Anchor Bolts, 1"	Each	---	24	24
Geocomposite Wall Drain	Sq. Yd.	---	66	66
Asbestos Bearing Pad Removal	Each	---	24	24
Pipe Underdrains for Structures 4"	Foot	---	133	133

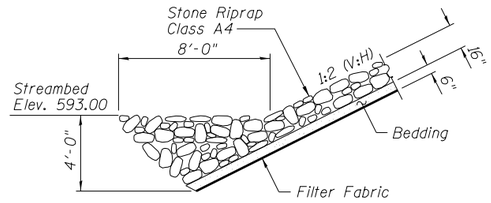


SECTION THRU INTEGRAL ABUTMENT

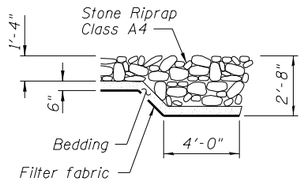
(Horiz. dim. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:
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. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION A-A

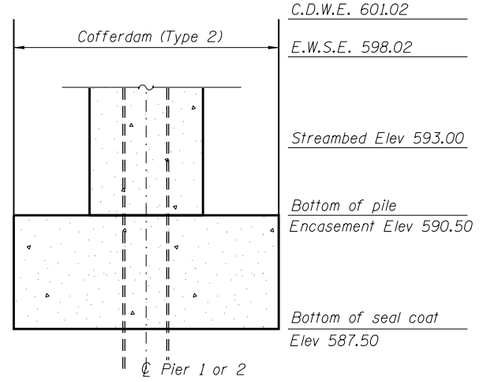


SECTION B-B

STATION 1440+89.83
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE 22 SEC 48[(B-1)BR;CR]
LOADING HL-93
STR. NO. 048-0095

NAME PLATE

See Std. 515001



COFFERDAM DETAILS

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397	USER NAME = jacobsmr	DESIGNED - ACB	REVISED -
	PLOT TIME = 3:37:16 PM	CHECKED - JMB	REVISED -
	PLOT SCALE = 2.0000 ' / in.	DRAWN - RLK	REVISED -
	PLOT DATE = 5/9/2019	CHECKED - JMB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL STRUCTURE DATA
STRUCTURE NO. 048-0095
SHEET NO. 2 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	48[(B-1)BR;CR]	KNOX	94	30
		CONTRACT NO. 68758		
	ILLINOIS FED. AID PROJECT			