

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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

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

In lieu of the hammer selection criteria and use of the FHWA Modified Gates formula specified in Section 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a nominal required bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.

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 test piles shall be instrumented for Dynamic Pile Monitoring. The time between initial driving and re-tapping shall be a minimum of 10 days. See Special Provisions

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with 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.

Slip forming of concrete parapet is not allowed.

Current ratings on file for Existing Structure

Inventory: HS6.0
 Operating: HS10.0
 Live Load Restrictions: Yes (15 tons)

Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

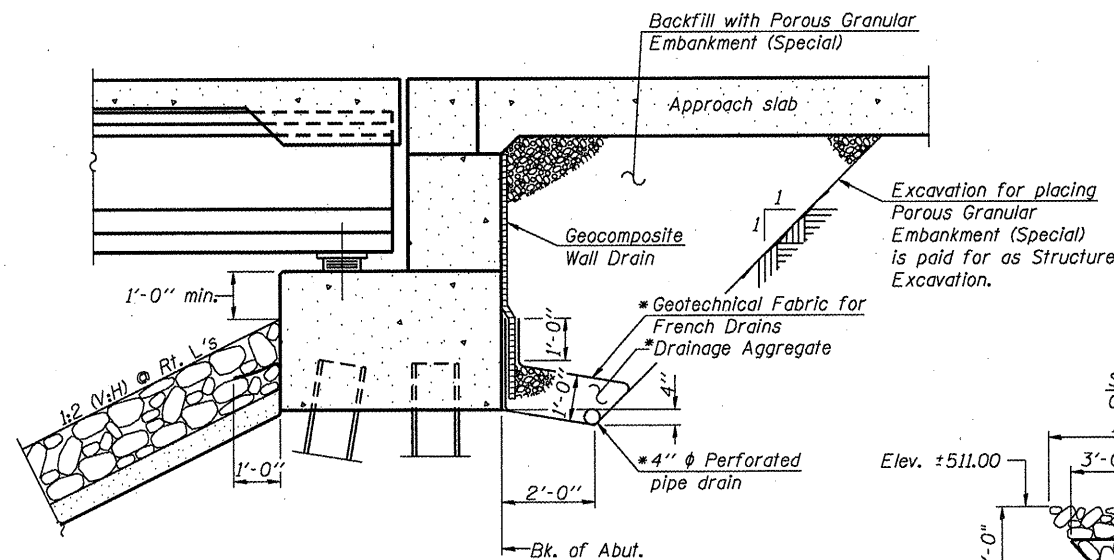
The Contractor is advised that the existing structure contains members that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure. An Existing Structure Information Package is available upon request as noted in the Special Provisions.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		356	356
Filter Fabric	Sq. Yd.		356	356
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		633	633
Cofferdam Excavation	Cu. Yd.		352	352
Cofferdam (Location - I)	Each		1	1
Floor Drains	Each	26		26
Concrete Structures	Cu. Yd.		489.1	489.1
Concrete Superstructure	Cu. Yd.	759.0		759.0
Bridge Deck Grooving	Sq. Yd.	1,812		1,812
Seal Coat Concrete	Cu. Yd.		61.5	61.5
Concrete Encasement	Cu. Yd.		22.5	22.5
Protective Coat	Sq. Yd.	2,359		2,359
Furnishing And Erecting Precast Prestressed Concrete I-Beams, 54"	Foot	2,814		2,814
Reinforcement Bars, Epoxy Coated	Pound	180,920	47,440	228,360
Bar Splicers	Each	1,602	291	1,893
Furnishing Steel Piles HP 12x53	Foot		1,301	1,301
Furnishing Steel Piles HP 14x73	Foot		1,305	1,305
Furnishing Steel Piles HP 14x102	Foot		2,112	2,112
Driving Piles	Foot		4,718	4,718
Test Pile Steel HP 12x53	Each		1	1
Test Pile Steel HP 14x73	Each		1	1
Test Pile Steel HP 14x102	Each		4	4
Pile Shoes	Each		76	76
Name Plates	Each		1	1
Preformed Joint Strip Seal	Foot	68		68
Elastomeric Bearing Assembly, Type II	Each	12		12
Anchor Bolts, 1"	Each	24		24
Concrete Sealer	Sq. Ft.		798	798
Geocomposite Wall Drain	Sq. Yd.		58	58
Temporary Mechanically Stabilized Earth Retaining Wall	Sq. Ft.		278	278
Porous Granular Embankment, Special	Cu. Yd.		130	130
Underwater Structure Excavation Protection - Location I	Each		1	1
Mechanical Splicers	Each		310	310
Asbestos Bearing Pad Removal	Each		168	168
Drainage Scuppers, DS-II	Each	4		4
Temporary Sheet Piling	Sq. Ft.		1,904	1,904
Pipe Underdrains for Structures 4"	Foot		148	148

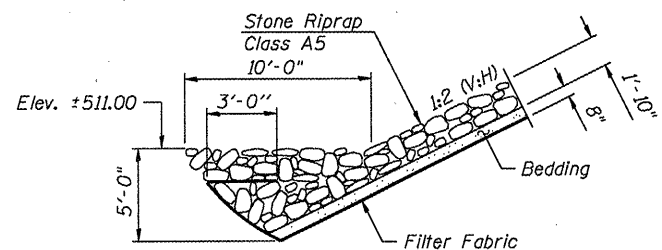
INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Stage Construction Details
4. Stage Construction Details
5. Temporary Concrete Barrier for Stage Construction
6. Top of Slab Elevation Location Plan
7. Top of Slab Elevations
8. Top of Slab Elevations
9. Top of Slab Elevations
10. South Approach Slab Elevations
11. North Approach Slab Elevations
12. Superstructure
13. Superstructure Details
14. Superstructure Details
15. Preformed Joint Strip Seal
16. Drainage Scupper, DS-II
17. Bridge Approach Slab Details
18. Bridge Approach Slab Details
19. Framing Plan
20. 54" PPC I-Beams - Spans 1,2,4 & 5
21. 54" PPC I-Beams - Span 3
22. 54" PPC I-Beam Details
23. Bearing Details
24. South Abutment
25. North Abutment
26. Abutment Details
27. Pier 1
28. Pier 2
29. Pier 3
30. Pier 4
31. HP Pile Details
32. Bar Splicer Assembly and Mechanical Splicer Details
33. Boring Logs
34. Boring Logs
35. Boring Logs
36. Boring Logs
37. Boring Logs
38. Boring Logs
39. Boring Logs
40. Boring Logs
41. Boring Logs

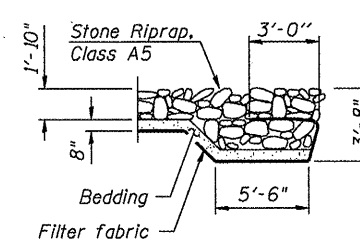


SECTION THRU PILE SUPPORTED STUB ABUTMENT
 (Horiz. dim. @ Rt. L's)

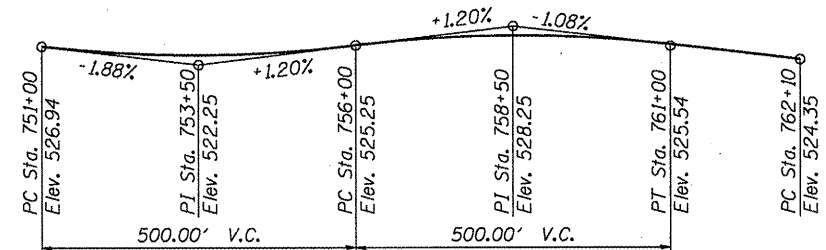
Note:
 All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION A-A



SECTION B-B



PROFILE GRADE
 (along @ IL 61)

USER NAME = florny	DESIGNED - BRD/FLL	REVISED - 1/24/11
FILE NAME = 0550083-68482.dgn	CHECKED - SDS/JHP	REVISED -
PLOT DATE = 1/31/2011	DRAWN - DLH	REVISED -
PLOT TIME = 3:33:11 PM	CHECKED - CWC/SDS	REVISED -

WHKS & CO.
 ENGINEERING
 7018 KINGSMILL CT.,
 SPRINGFIELD, IL
 (217) 483-9457
 DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
S.N. 055-0083

SHEET NO. 2 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
542	105BR-1	MCDONOUGH	117	42
CONTRACT NO. 68482			ILLINOIS FED. AID PROJECT	