

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

INDEX OF SHEETS

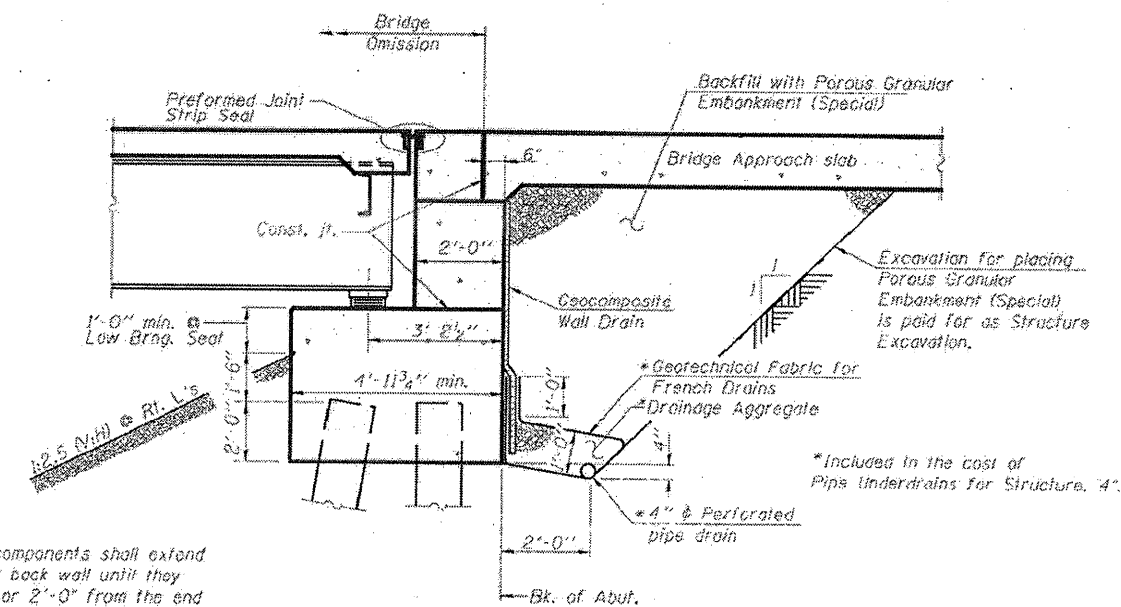
1. General Plan and Elevation
2. General Data
3. Stage Construction Plan
4. Modified Temporary Concrete Barrier for Stage Construction
5. Top of Slab Elevation Plan
6. Top of Slab Elevations
7. Top of West Approach Slab Elevations
8. Top of East Approach Slab Elevations
9. Superstructure Plan
10. Superstructure Details
11. Modified Preformed Joint Strip Seal
12. Bridge Approach Slab Details
13. Bridge Approach Slab Details
14. Framing Plan
15. Structural Steel Details
16. Bearing Details
17. West Abutment
18. East Abutment
19. Abutment Details
20. Pier
21. Metal Shell Pile Details
22. Bar Splicer Assembly Details
23. Cantilever Forming Brackets
24. Subsurface Diagram

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
** Porous Granular Embankment, Special	Cu. Yd.	-	105	105
Stone Riprap Class A4	Sq. Yd.	-	1278	1278
Filter Fabric	Sq. Yd.	-	1278	1278
Removal of Existing Structures	Each	1	-	1
Structure Excavation	Cu. Yd.	-	386	386
Floor Drains	Each	4	-	4
Concrete Structures	Cu. Yd.	-	281.9	281.9
# Concrete Superstructure	Cu. Yd.	218.5	-	218.5
Bridge Deck Grooving	Sq. Yd.	654	-	654
Concrete Encasement	Cu. Yd.	-	10.9	10.9
# Protective Coat	Sq. Yd.	849	-	849
Furnishing & Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	2070	-	2070
# Reinforcement Bars, Epoxy Coated	Pounds	63,080	28,180	91,260
# Bar Splicers	Each	539	274	813
Furnishing Metal Shell Piles 12" x .250"	Foot	-	528	528
Furnishing Metal Shell Piles 14" x .312"	Foot	-	432	432
Driving Piles	Foot	-	960	960
Test Pile Metal Shells	Each	-	2	2
Pile Shoes	Each	-	40	40
** Temporary Sheet Piling	Sq. Ft.	-	2817	2817
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	97	-	97
Elastomeric Bearing Assembly, Type I	Each	-	12	12
Anchor Bolt, 1"	Each	-	24	24
Anchor Bolt, 1/2"	Each	-	24	24
Concrete Sealer	Sq. Ft.	-	967	967
Geocomposite Wall Drain	Sq. Yd.	-	61	61
Pipe Underdrain for Structures 4"	Foot	-	104	104
** Mechanical Splicers	Each	-	72	72
** Diamond Grinding (Bridge Section)	Sq. Yd.	643	-	643
** Underwater Structure Excavation Protection, Location 1	Each	-	1	1
** Underwater Structure Excavation Protection, Location 2	Each	-	1	1
** Asbestos Bearing Pad Removal	Each	60	-	60
Permanent Bench Marks	Each	1	-	1

\*\* See Special Provisions  
# Quantity includes Approach Slabs.

1. Fasteners shall be AASHTO M164 Type I, mechanically galvanized bolts. Bolts 1/2 in.  $\phi$ , notes 3/8 in.  $\phi$ , unless otherwise noted.
2. Calculated weight of Grade 36 Structural Steel = 9,320 lbs.  
Calculated weight of Grade 50 Structural Steel = **67,620 lbs.**  $\Delta$
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(a) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam of each of these additional bracket locations.
7. 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.
8. Concrete sealer shall be applied to the designated areas of the abutments.
9. 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 color Standard 7.5G 4/8). See Special Provision for "Cleaning and Painting New Metal Structures".
10. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
11. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
12. 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.
13. If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
14. 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 conditions of the beams when developing construction procedures for removal and replacement of the superstructure.
15. Slipforming of the parapet is not allowed.
16. Current Roatings on File for Existing Structure  
Inventory: HS 23.5  
Operating: HS 38.9  
Live Load Restrictions: No
17. An aluminum tablet of the type shown on standard 667101 shall be placed on the proposed structure as directed by the engineer. The bench mark elevation will be established and marked by the department. This work will be paid for at the contract unit price each for PERMANENT BENCH MARKS.
18. The SSPC QP-1 Contractor Paint Certification will be required for this contract.



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).

DESIGNED	JLG
CHECKED	JSP
DRAWN	UJ
CHECKED	JLG



GENERAL DATA  
STRUCTURE NO. 010-0283

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	709	(105BR)BR	CHAMPAIGN	55	14
24 SHEETS	SN 010-0283		CONTRACT NO. 70427		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT					

$\Delta$  Rev. 2-19-10