

ELEVATION

PLAN

NOTES

The structural steel for the temporary steel beams shall conform to AASHTO Classification M-270 Gr. 50, all other structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.

See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods: Min. embedment 9". The cost of epoxy grouting threaded rods shall be included with Furnishing and Erecting Structural Steel.

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.

If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams.

Installation of the temporary support beam at the N. Abutment may require additional excavation or added measures to properly install the temporary support beams. Contractor shall field measure and determine procedure for placing the beam. The procedure shall be submitted to the Department for approval. Cost included with Furnishing and Erecting Structural Steel.

Any dewatering required for the installation of the support columns shall be included in the cost for Furnishing and Erecting Structural Steel.

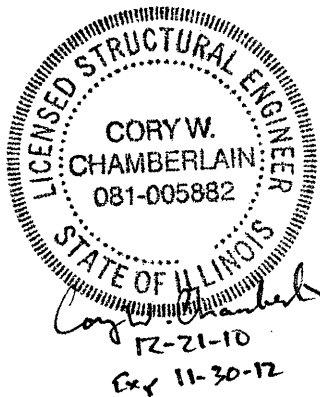
Contractor is responsible for the stability of the temporary support beams during transport, installation, removal and salvage. Contractor shall incorporate temporary bracing as appropriate to provide stability. Any temporary measures used shall remain in place until the temporary beam is fully installed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Furnishing and Erecting Structural Steel	Pound	39,260

* Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures. Maximum Beam Depth = 36". No additional payment will be allowed if Contractor chooses a heavier steel section than the one specified in the plans.

** Transverse tie rods (5 per span min.). Place additional shims at midpoints between tie rods. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width. Spacing may be adjusted to miss adjacent transverse tie rods.



APPROVED
For Structural Adequacy Only

Carl King
Engineer of Bridges & Structures

USER NAME = dhaberling	DESIGNED - BRD/FLL	REVISED -		7018 KINGSMILL CT., SPRINGFIELD, IL (217) 483-9457 DESIGN FIRM #184001036
FILE NAME = 0550003-68482.dgn	CHECKED - SDS/JHP	REVISED -		
PLOT DATE = 12/21/2010	DRAWN - DLH	REVISED -		
PLOT TIME = 10:47:20 AM	CHECKED - CWC/SDS	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY BEAM SUPPORT DETAILS FOR PRE STAGE I TRAFFIC
S.N. 055-0010

SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE. 542	SECTION 105BR-1	COUNTY MCDONOUGH	TOTAL SHEETS 117	SHEET NO. 40A
				CONTRACT NO. 68482
ILLINOIS FED. AID PROJECT				