F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	631	444
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* (2425 & 2626) R-2 CONTRACT NO. 62111

INDEX OF SHEETS

F.I.O. Included For Information Only.

GENERAL NOTES

1. Fasteners shall be high strength bolts. Bolts M22, open holes 24 mm diameter unless otherwise noted.

2. Calculated mass of Structural Steel** =
   375,550 kg. M 270M Gr. 345
   23,980 kg. M 270M Gr. 250
   Calculated mass of Anchor Bolts*** = 210 kg
   ** Structural Steel to be erected under pay item Erecting Structural Steel. The listed masses include mass of structural framing, low profile fixed bearings, adjusting shim plates for bearings and bolts.
   *** Anchor bolts to be furnished and installed under pay item Furnishing and Erecting Structural Steel.

3. The organic zinc rich primer / epoxy / urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system with the exception of masked off connection surfaces will be shop applied by the Fabricator. The masked off connection areas and any damaged areas shall be touched up in the field by this Contractor. The color of the final finish coat for the interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for all exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsel No. 2.5YR 3/4. See Special Provisions for "Cleaning and Painting New Metal Structures."

*4. All structural steel shall be AASHTO M270M Grade 345 unless otherwise noted. Fill plates can be Grade 250.

5. Field welding of construction accessories will not be permitted to beams or girders.

6. Anchor bolts for bearings shall be set before bolting cross frames over supports.

*7. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs and all splice plate material except fill plates.

8. Reinforcement Bars shall conform to the requirements of AASHTO M 31M or M 322M, Grade 400.

9. Slope wall shall be reinforced with welded wire fabric, 152 x 152 - MW25.8 x MW25.8 with a mass of 2.91 kg/m2.

10. The Embankment Configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

11. Plan dimensions and details relative to existing structures have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

12. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 3 mm. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 3 mm adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. (Shims will be furnished under a separate Fabrication Contract.)

13. The contractor shall drive two test piles in a permanent location, one each at west abutment and pier 2 as directed by the Engineer before ordering the remainder of piles.

14. All dimensions are in millimeters (mm) except as noted.

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

16. All construction joints shall be bonded. ,

17. 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 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.

18. Conduits are shown in bridge plans for location and installation purposes only. Refer to Electrical Raceway Plans for details, pay items and quantities.

19. Proposed abutment backfill shall not be disturbed after placement. Removal of Existing Temporary Sheet Piling and placement of backfill behind abutments shall be coordinated with adjacent contracts, and staged embankment construction and bridge construction as necessary.

* These notes included in erection contract for information only.

TOTAL BILL OF MATERIAL

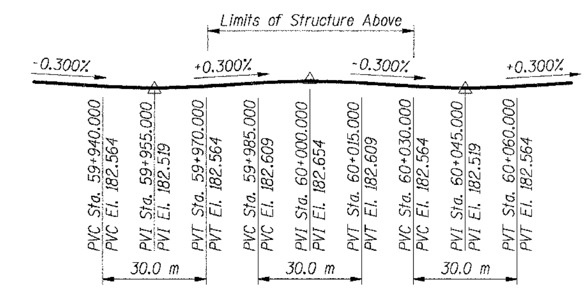
ITEM	UNIT	SUBSTRUCTURE	SUPERSTRUCTURE	TOTAL
Removal Of Existing Structures No. 2	Each			1
Temporary Sheet Piling Removal	Sq M	160		160
Protective Shield	Sq M		1164	1164
Stud Shear Connectors	Each		15,885	15,885
Porous Granular Embankment (Special)	Cu M	720		720
Structure Excavation	Cu M	542		542
Concrete Structures	Cu M	537.7		537.7
Concrete Superstructure	Cu M		830.1	830.1
Bridge Deck Grooving	Sq M		3,037	3,037
Protective Coat **	Sq M		3,311	3,311
Erecting Structural Steel	L Sum		1	1
Furnishing And Erecting Structural Steel	Kg	210		210
Reinforcement Bars, Epoxy Coated	Kg	67,840	131,930	199,770
Furnishing Steel Piles HP310X79	Meter	3267.0		3267.0
Driving Steel Piles	Meter	3267.0		3267.0
Test Pile Steel HP310X79	Each	2		2
Preformed Joint Seal 64mm	Meter		66.3	66.3
Bar Splicers	Each	106	1,136	1,242
Noise Abatement Wall Anchor Rod Assembly	Each		21	21
Name Plates	Each		1	1
Slope Wall 100 mm	Sq M	1,264		1,264

** Quantity includes top and inside surfaces of parapets and top surface of bridge deck.

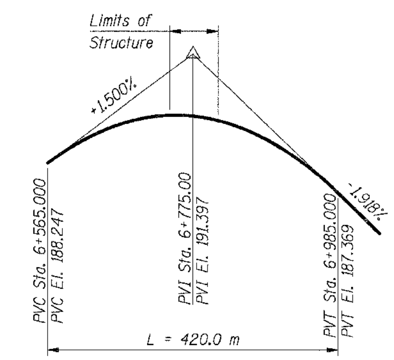
PGL I-94 WB

SPLINE CURVE DATA	
Station	**Elevation**
34+110.000	189.436
34+115.000	189.453
34+120.000	189.467
34+125.000	189.479
34+130.000	189.489
34+135.000	189.497
34+140.000	189.503
34+145.000	189.507
34+150.000	189.508
34+155.000	189.508
34+160.000	189.506
34+165.000	189.502
34+170.000	189.496
34+175.000	189.487
34+180.000	189.477
34+185.000	189.465
34+190.000	189.450
34+195.000	189.434
34+200.000	189.415
34+205.000	189.395
34+210.000	189.372
34+215.000	189.348
34+220.000	189.321
34+225.000	189.292
34+230.000	189.262

Limits of Structure



PGL BURNHAM AVENUE



PGL I-80/94

Notes:
1. All dimensions are in millimeters (mm) except as noted.

SHT. BS-2 OF 60

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
EB & WB INSIDE LANES (MAINLINE) CONSTRUCTION
I-80/94 OVER BURNHAM AVENUE
STRUCTURE NO. 016-2791 STA. 6+772.591
SECTION 1977-121-R
COOK COUNTY

GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL

DATE: 7/18/2005
DRAWN BY: LG
CHECKED BY: MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS