

GENERAL NOTES

- Fasteners shall be high strength bolts. Bolts M22, open holes 24 mm ϕ , unless otherwise noted.
- Calculated mass of Structural Steel (M270M, Grade 345) = 228,150 kg
Calculated mass of Structural Steel (M270M, Grade 250) = 15,790 kg
- Expansion joint plates and attached bars shall be shop painted with the inorganic zinc rich primer.
- Field welding of construction accessories will not be permitted to beams or girders.
- Anchor bolts shall be set before bolting diaphragms over supports.
- 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 wide flange beams and all splice plate material except fill plates.
- Reinforcement bars shall conform to the requirements of AASHTO M 31M, M 42M or M 53M Grade 400.
- 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. For Type I Elastomeric Bearings, two 3 mm adjusting shims shall be provided for each bearing and placed as detailed.
- The contractor shall drive 7-356 ϕ Metal Shell test piles in a permanent location. One each at the North and South Abutments, one each at the four Wingwalls, and one each at the Pier, as directed by the Engineer before ordering the remainder of piles.
- Bridge Seat Sealer shall be applied to the seat area of the North and South Abutments.
- All dimensions are in millimeters (mm) except as noted.
- 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 shall be shop applied, with the exception that masked off connection surfaces or damaged areas shall be touched up in the field. 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 Reddish Brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures."
- The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project. No additional compensation will be made to properly dispose of the existing structure containing lead.
- All construction joints shall be bonded.
- The structural steel bearing plates of the Elastometric Bearing Assembly shall conform to the requirements of AASHTO M270M Grade 345.

INDEX OF SHEETS

- S-1 General Plan
- S-2 General Notes, Index of Sheets and Total Bill of Material
- S-3 Stage Construction Details-Substructure
- S-4 Stage Construction Details-Superstructure
- S-5 Temporary Concrete Barrier for Stage Construction
- S-6 Top of Slab Elevations (1 of 3)
- S-7 Top of Slab Elevations (2 of 3)
- S-8 Top of Slab Elevations (3 of 3)
- S-9 Deck Plan and Cross Section
- S-10 Superstructure Details
- S-11 Pedestrian Railing
- S-12 Bridge Joint System-Expansion (Preformed Joint Seal)
- S-13 Bridge Joint System-Expansion (Alternate Strip Seal)
- S-14 Drainage Scupper DS-12
- S-15 Drainage System Details
- S-16 Framing Plan
- S-17 Framing Details
- S-18 Bearing Details
- S-19 Anchor Bolt Details
- S-20 South Abutment Plan
- S-21 South Wingwalls
- S-22 North Abutment Plan
- S-23 North Wingwalls
- S-24 North Abutment Footing Plan
- S-25 Abutment Details
- S-26 Wingwall Details (1 of 2)
- S-27 Wingwall Details (2 of 2)
- S-28 Rustication Finish Details
- S-29 Pier Plan, Elevation and Details
- S-30 Bar Splicer (Coupler) Details
- S-31 Concrete Pile Details
- S-32 Boring Logs (1 of 4)
- S-33 Boring Logs (2 of 4)
- S-34 Boring Logs (3 of 4)
- S-35 Boring Logs (4 of 4)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	1		1
Elastomeric Bearing Assembly, Type I	Each		24	24
Stud Shear Connectors	Each	4,752		4,752
Test Pile Metal Shells	Each		3	3
Name Plates	Each		1	1
Porous Granular Embankment	m ³		4,863	4,863
Structure Excavation	m ³		5,558	5,558
Concrete Structures	m ³		2,089.6	2,089.6
Concrete Superstructure	m ³	389.0		389.0
Rustication Finish	m ²		683	683
Bridge Deck Grooving	m ²	1,040		1,040
Protective Coat	m ²		1,516	1,516
Furnishing And Erecting Structural Steel	L. Sum	1		1
Reinforcement Bars, Epoxy Coated	kg	48,680	137,190	185,870
Pedestrian Railing (Special)	m	145.0		145.0
Furnishing Metal Pile Shells 356 mm	m		7,071.5	7,071.5
Driving and Filling Shells	m		7,071.5	7,071.5
Bridge Seat Sealer	m ²		34	34
Geocomposite Wall Drain	m ²		1,079	1,079
Braced Excavation	m ³		266	266
Bridge Joint System (Expansion) 40 mm	m	50.4		50.4
Protective Shield	m ²		673	673
Drainage Scuppers, DS-12	Each	2		2
Bar Splicers	Each	585	435	1,020
Drainage System	L. Sum	1		1
Temporary Soil Retention System	m ²		435	435

DESIGNED	JDG
CHECKED	GSP
DRAWN	MJB
CHECKED	GSP

1 REVISED 03-29-04 KFA

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
 UNDER WENTWORTH AVE
 GENERAL NOTES, INDEX OF SHEETS AND
 TOTAL BILL OF MATERIAL
 SECTION 2626.1B
 COOK COUNTY
 STATION 7 + 579.488
 STRUCTURE NO. 016-2790
 DATE 07/05
AMERICAN
 CONSULTING ENGINEERS

FOR INFORMATION ONLY