

GENERAL NOTES

- Fasteners shall be high strength bolts (AASHTO M-164, Type 3). Bolts $\frac{7}{8}$ " dia. open holes $\frac{5}{8}$ " dia., unless otherwise noted.
- Calculated mass of Structural Steel AASHTO M-270
Grade 50W = 293,500 lbs.
Grade 36 = 600 lbs.
- All structural steel including bearing plates shall be AASHTO M-270, Grade 50W except expansion joint plates and attached bars, which shall be AASHTO M-270 Grade 36.
- Expansion joint plates and attached bars shall be shop painted with the Inorganic zinc rich primer. See IDOT Special Provisions "Cleaning and Painting New Metal Structures"
- AASHTO M-270 Grade 50W structural steel shall only be painted, for a distance of three times the depth of the beams or girders each way from the deck joints. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel."
- Field welding of construction accessories will not be permitted to the bottom flange of beams or girders, nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
- 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, tension flanges, webs and all splice plate material except fill plates.
- Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
- Bridge Seat Sealer shall be applied to the seat area of the abutments and piers under expansion joint.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ ". Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$ " 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 $\frac{1}{8}$ " adjusting shims shall be provided for each bearing and placed as detailed.
- The contractor shall submit for Engineer's review his detailed erection plan and procedures including but not limited to sequence of girder erection and bolt tightenings, and provisions for stability of girders and blocking of bearings during erection. The Engineer's review of such plan and procedures does not relieve contractor of any responsibility.
- Drilled shafts for piers and abutments shall be constructed according to IDOT Guide Bridge Special Provision "Drilled Shafts".

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TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.	---	992	992
Concrete Structures	Cu. Yd.	---	322	322
Bridge Seat Sealer	Sq. Ft.	---	194	194
Elastomeric Bearing Assembly, Type I	Each	---	12	12
Elastomeric Bearing Assembly, Type II	Each	---	4	4
Elastomeric Bearing Assembly, Type III	Each	---	4	4
Furnishing and Erecting Structural Steel	L. Sum	1	---	1
Stud Shear Connectors	Each	3,632	---	3,632
Reinforcement Bars, Epoxy Coated	Pound	122,850	51,250	174,100
Concrete Superstructure	Cu. Yd.	258.8	---	258.8
Bridge Fence Railing	Foot	1,540	---	1,540
Protective Coat	Sq. Yd.	1,440	---	1,440
Neoprene Expansion Joint, 2"	Foot	13	---	13
Neoprene Expansion Joint, 2 1/2"	Foot	39	---	39
Neoprene Expansion Joint, 4"	Foot	13	---	13
Performed Joint Seal, 2 1/2"	Foot	15	---	15
Pipe Handrail	Foot	---	168	168
Drilled Shaft In Soil, 30"	Foot	---	216	216
Drilled Shaft In Soil, 36"	Foot	---	36	36
Pedestrian Truss Superstructure	Sq. Ft.	1,910	---	1,910
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	---	9,900	9,900
Bicycle Railing	Foot	700	---	700
Rustic Rail Fence	Foot	590	---	590
Drainage Scupper	Each	4	---	4
Drainage System	L. Sum	1	---	1

STRUCTURAL ENGINEER'S CERTIFICATION

I, MOHAMMAD M. HUSAIN, A LICENSED STRUCTURAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS TECHNICAL SUBMISSION WAS PREPARED ON BEHALF OF WHEATON PARK DISTRICT BY CEMCON, LTD. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 15th DAY OF November, A.D., 2005.

ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-005529
MY LICENSE EXPIRES ON NOVEMBER 30, 2006



NOTE : UNLESS THIS DOCUMENT BEARS THE ORIGINAL SIGNATURE AND IMPRESSED SEAL OF THE DESIGN STRUCTURAL ENGINEER, IT IS NOT A VALID TECHNICAL SUBMISSION.

PREPARED FOR:
WHEATON PARK DISTRICT
666 S. MAIN STREET
WHEATON, ILLINOIS 60187

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REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

BILL OF MATERIAL, GENERAL NOTES & INDEX OF BRIDGE SHEETS
PEDESTRIAN/BICYCLE PATH BRIDGE OVER UNION PACIFIC RAILROAD

FILE NAME: INDEX	DSGN. BY: MMH	JOB NO.: 551.007	FLD. BK./PG.: -----	SHEET NO. 15 of 54
DISC. NUMBER: 551007	DRN. BY: RDS	DATE: 12-21-04	SCALE: -----	