

GENERAL NOTES

Fasteners shall be high strength bolts (AASHTO M 164, Type 3). Bolts $\frac{7}{8}$ " ϕ , open holes $\frac{15}{16}$ " ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 84,270 Pound AASHTO M270 Grade 50W

All structural steel shall be AASHTO M 270 Grade 50W.

AASHTO M 270 Grade 50W structural steel shall only be painted, at the ends of the beams, for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with an inorganic zinc rich primer per AASHTO M 300, Type 1. No field painting shall be required. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".

Anchor Bolts shall be set before bolting diaphragms over supports.

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

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-31 or M-322, Grade 60.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

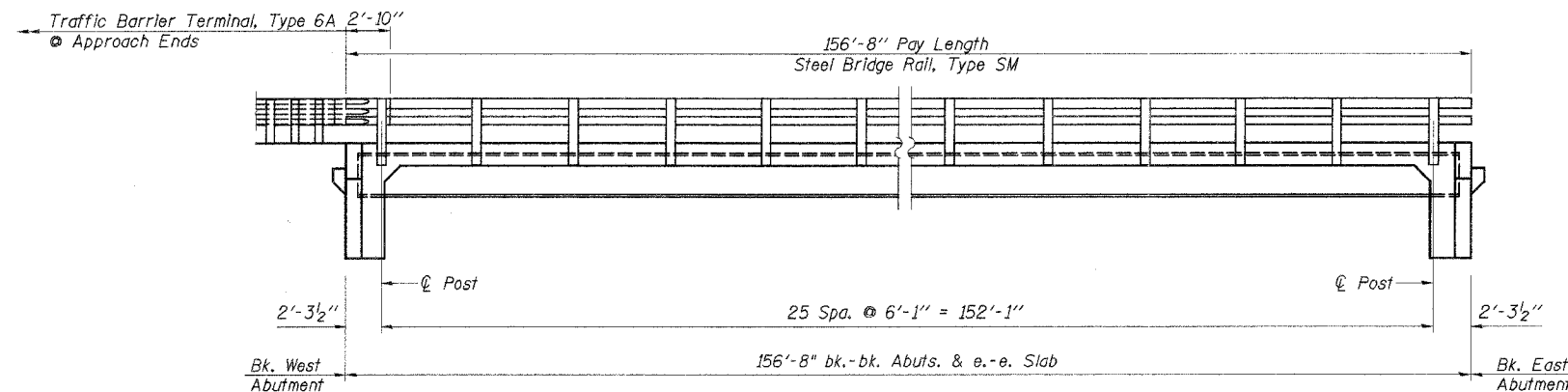
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$ " adjusting shims, of the dimension of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

The contractor shall drive one metal shell test pile in a permanent location at each abutment & pier as directed by the Engineer before ordering the remainder of piles.

All exposed portions of abutments, wing walls, and piers shall receive a rubbed finish in accordance with Article 503.16 (b) of the standard specifications. Cost to be included in cost of Concrete Structures.

See Sheets 19 & 20 of 20 for Boring Data.



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*denotes - Included in cost of Pipe Underdrains for Structures.

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes the pipes shall drain into concrete headwalls*. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

ROCK RUN CREEK
BUILT 200_ BY
STEPHENSON COUNTY
SEC. 04-00163-00-BR
F.A. PROJ. BRS-60(120)
STR. NO. 089-3280
LOADING HS20

LETTERING FOR NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		76	76
Stone Riprap, Class A4	Ton		194	194
Filter Fabric	Sq. Yd.		242	242
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		296	296
Concrete Structures	Cu. Yd.		115.2	115.2
Concrete Superstructure	Cu. Yd.	146.3		146.3
Bridge Deck Grooving	Sq. Yd.	522		522
Protective Coat	Sq. Yd.	571	10	581
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2,220		2,220
Reinforcement Bars, Epoxy Coated	Pound	32,960	10,020	42,980
Steel Bridge Rail, Type SM	Foot	314		314
Furnishing Metal Pile Shells 12"	Foot		1,000	1,000
Driving and Filling Shells	Foot		1,000	1,000
Test Pile Metal Shells	Each		4	4
Name Plates	Each		1	1
Pipe Underdrains for Structures 4"	Foot		140	140
Geocomposite Wall Drain	Sq. Yd.		48	48
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1

RAIL POST SPACING

GENERAL NOTES & BILL OF MATERIAL

SECTION 04-00163-00-BR
F.A.S. ROUTE 60 - C.H. 5
STEPHENSON COUNTY
STATION 255+30

DESIGNED	A.R.K.
CHECKED	S.F.M. & F.J.S.
DRAWN	S.A.P.
CHECKED	A.R.K. & F.J.S.

4440 ASH GROVE
SPRINGFIELD, IL 62711
(217) 793-8600
oasinc@insightbb.com

OZYURT AND STONE, INC.
CONSULTING ENGINEERS

JOB NO.: 0527
FILE: 0509NOTES.DGN
DATE: 03/07/06