CONTRACT NO. 66594

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. U. 5952	①	GRUNDY	86	41
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. S2
OF S26 SHEETS

① Q-BR

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$" ϕ, open holes $\frac{15}{16}$" ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 197500 lbs. AASHTO M270 Grade 36

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL modified). See Special Provisions.

The Steel H Piles shall be according to AASHTO M270 Grade 50

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.

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

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 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 drive one HP10x42 test pile in a permanent location at each abutment before ordering the remainder of piles. The test pile(s) shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

The concrete for bridge floors finished according to Article 503.16(a) of the Standard Specifications, shall be placed and compacted parallel to the skew in uniform increments along centerline of the bridge. The finishing machine, when required, shall be set parallel to the skew for striking off and screeding the concrete.

Concrete Sealer shall be applied to the seat area of the abutments.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

All construction joints shall be bonded.

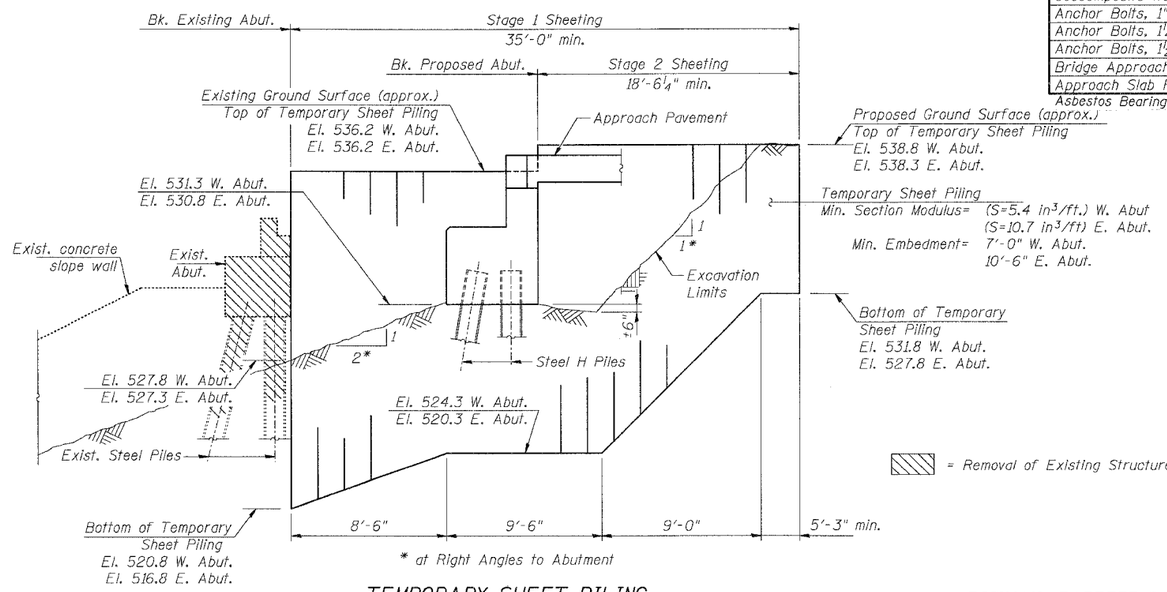
If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06 of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

The Inorganic zinc rich primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. 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."

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	260	260
Concrete Structures	Cu. Yd.	-	449.3	449.3
Concrete Superstructure	Cu. Yd.	322.3	-	322.3
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	5730	-	5730
Elastomeric Bearing Assembly, Type I	Each	30	-	30
Reinforcement Bars, Epoxy Coated	Pound	85400	31910	117310
Reinforcement Bars	Pound	-	8950	8950
Bar Splicers	Each	542	262	804
Name Plates	Each	1	-	1
Bridge Deck Grooving	Sq. Yd.	1620	-	1620
Protective Coat	Sq. Yd.	1871	-	1871
Concrete Sealer	Sq. Ft.	-	510	510
Drainage Scuppers, DS-12	Each	2	-	2
Floor Drains	Each	10	-	10
Preformed Joint Strip Seal	Foot	183	-	183
Furnishing Steel Piles HP 10x42	Foot	-	792	792
Driving Piles	Foot	-	792	792
Test Pile Steel HP 10x42	Each	-	2	2
Temporary Sheet Piling	Sq. Ft.	-	867	867
Pile Shoes	Each	-	46	46
Drilled Shaft in Rock	Cu. Yd.	-	4	4
Drilled Shaft in Soil	Cu. Yd.	-	40	40
Underwater Structure Excavation Protection, Location 1	Each	-	1	1
Underwater Structure Excavation Protection, Location 2	Each	-	1	1
Porous Granular Embankment (Special)	Cu. Yd.	-	224	224
Stone Riprap, Class A4	Sq. Yd.	-	1301	1301
Filter Fabric	Sq. Yd.	-	1301	1301
Steel Railing (Temporary)	Foot	117.5	-	117.5
Permanent Casing	Foot	-	133	133
Pipe Underdrains for Structures 4"	Foot	-	174	174
Geocomposite Wall Drain	Sq. Yd.	-	107	107
Anchor Bolts, 1"	Each	-	40	40
Anchor Bolts, $1\frac{1}{4}$"	Each	-	20	20
Anchor Bolts, $1\frac{1}{2}$"	Each	-	20	20
Bridge Approach Pavement	Sq. Yd.	502	-	502
Approach Slab Removal	Sq. Yd.	150	-	150
Asbestos Bearing Pad Removal	Each	44		44

Note:
Hard driving conditions may be encountered during the sheet piling installation. The contractor shall provide the appropriate driving equipment for the soil conditions indicated on the boring logs.



TEMPORARY SHEET PILING
(Above diagram is drawn looking perpendicular to ℄ roadway)

▨ = Removal of Existing Structures

DESIGNED	LT/MRM
CHECKED	UM
DRAWN	MTR/MRM
CHECKED	BLU

DATE: 3/19/07

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
130 E. RANDOLPH STREET
CHICAGO, ILLINOIS 60601
JOB NO. 541

GENERAL NOTES AND
TOTAL BILL OF MATERIALS
U.S. ROUTE 6 OVER
NETTLE CREEK
FAU 5952-SEC. Q-BR
GRUNDY COUNTY
STATION 449+79.12
S.N. 032-0107

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