GENERAL NOTES

Fasteners shall be high strength bolts. Bolts 78"\$, open holes 15,6 "\$, unless otherwise noted.

Calculated weight of Structural Steel = 866,660 Lbs. (M270, Gr. 50)

No field welding is permitted except as specified in the contract documents.

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 ASTM A 706 Gr 60. See Special Provisions.

Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

Plan dimensions and details relative to existing structure 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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

See roadway plans for Paved Ditch Removal and Paved Ditch, Special quantities.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 18 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $^{\prime}8^{\prime\prime}$ 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, shims of the dimensions of the top plate shall be provided and placed as detailed.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Approach Pavement

-(2)

Backfill with Porous Granular

Embankment, Special by Bridge

Contractor after superstructure

Geotechnical fabric

for french drains

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

Reinforcement bars designated (E) shall be epoxy coated.

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 Blue, Munsell No. 10B3/6. See Special Provision for Cleaning and Painting New Metal Structures.

If the Contractor chooses to after the temporary cantilevered sheet piling design requirements shown on the plans for lesser design requirements, then full design submittals with the required seals will be expected by the Department, for review and approval.

The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

Signs mounted to side of existing structures shall be removed, salvaged, and re-mounted on new structure. Cost included in Removal of Existing Superstructures.

The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.

Bridge Omission

New Composite Deck Slab

New W27-Beams

New Elastomeri Bearings (Typ.)

New Conc.

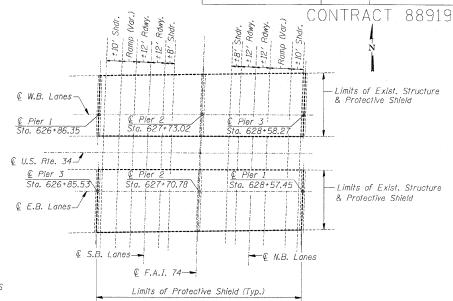
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	GENERAL PLAN AND ELEVATION
2	GENERAL NOTES, TOTAL BILL OF MATERIAL & DETAILS
3	STAGE CONSTRUCTION SEQUENCE
4 - 10	10P OF SLAB ELEVATIONS
11	SUPERSTRUCTURE
12	SUPERSTRUCTURE DETAILS
13	DIAPHRAGM DETAILS
<i>14 - 1</i> 5	STRUCTURAL STEEL
16	BEARING DETAILS
17	CONCRETE REMOVAL DETAILS
18-23	ABUTMENT DETAILS
24	PIER 1 DETAILS
25	PIER 2 DETAILS
26	PIER 3 DETAILS
27	ANCHOR BOLT DETAILS
28	BAR SPLICER ASSEMBLY DETAIL
29	TEMPORARY CONCRETE BARRIER
30	CANTILEVER FORMING BRACKET DETAIL

- Appr. Pavement, See Roadway Plans

② Fabric Reinforced Elastomeric Mat





PROTECTIVE SHIELD DETAIL

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Porous Granular Embankment, Special	Cu. Yd.		708	708
	Removal of Existing Superstructures	Each	2		2
	Concrete Removal	Cu. Yd.		68.0	68.0
	Slope Wall Removal	Sq. Yd.	1367		1367
***************************************	Structure Excavation	Cu. Yd.		708	708
See Roadway Plans	Floor Drains	. Each	24		24
See Medamay 1 rans	Concrete Structures	Cu. Yd.		63.0	63.0
	Concrete Superstructure	Cu. Yd.	843.2		843.2
Excavation for placing Porous	Bridge Deck Grooving	Sq. Yd.	2876		2876
Granular Embankment, Special is	Protective Coat	Sq. Yd.	3308		3308
paid for as Structure Excavation,	Elastomeric Bearing Assembly, Type I	Éach	32		32
,	Elastomeric Bearing Assembly, Type II	Each	32		32
011 015 / 111 1051 00 5 11	Furnishing and Erecting Structural Steel	L Sum	1		1
2" PJF (per Article 1051.08 of the	Stud Shear Connectors	Each	9216		9216
Standard Specifications) full width and	Reinforcement Bars, Epoxy Coated	Pound	175,080	10,690	185,77
vertically at edges bonded to abutment cap	Slopewall 4"	Sq. Yd.		1466	1466
with suitable adhesive as recommended	Temporary Sheet Piling	Sq. Ft.		1226	1226
by supplier.	Name Plates	Each		2	2.
Fabric Reinforced Elastomeric Mat	Bar Splicers	Each	1848	16	1864
according to Section 1028 of the Std.	Protective Shield	Sq. Yd.	1968		1968
Specs, Fabric Mat shall be 24" wide and	Pipe Underdrain for Structures, 6"	. Foot		250	250
attached full width to the abutment cap					
with a ${}^{5}_{8}$ " x 5" steel plate and ${}^{1}_{9}$ " ϕ studs					
vith nuts and washers at 12" cts.					
Geocomposite Wall Drain					
Items (1) (2) & (3) shall be included					
in the cost of Concrete Superstructure					
in the east of concrete Superent details					

• Quantity is for top and inside face of parapets, and the deck.

15'-2" Top of Piling Prop. Finished Grade Elev. 828.20 Elev. 827.19± Limits of - Elev. 817.00 Exist. Abut.

TEMPORARY SHEET PILING DETAIL **ELEVATION VIEW**

(Minimum section modulus 8.2 in.3/ft.)

Bottom of Piling

according to Section 1028 of the Std. Specs. Fabric Mat shall be 24" wide and attached full width to the abutment cap with a ${}^{5}_{8}$ " x 5" steel plate and ${}^{1}_{2}$ " ϕ studs Aaareaate with nuts and washers at 12" cts. 3 Geocomposite Wall Drain Items (1) (2) & (3) shall be included in the cost of Concrete Superstructure ∠ A 6" ¢ perforated drain pipe shall be situated at the bottom of an approximate 1' x 2' area of drainage aggregate. The 1' x 2' area shall be wrapped completely in geotechnical fabric for french drains. 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). *

* Included in the cost of Pipe Underdrains for Structures.

SECTION THRU SEMI-INTEGRAL ABUTMENTS

(Abutment Drainage Detail,

GENERAL NOTES, TOTAL BILL OF MATERIAL & DETAILS

Date	Danispad	d ACW	U.S.
Revisions	resigned		F.
	Drawn	SRS	F.A.I. RTE.
	Checked	KWB	S7
	Approved	KWB	STRUCTURES NO.

ROUTE 34 OVER A.I. ROUTE 74 74 SECTION (48-26HB-4)I KNOX COUNTY STA. 212+20.71 048-0019 (WB) & 048-0020 (EB)

Prepared by: WVP CORPORATION Engineers - Architects - Planners Decatur, Illinois - St. Louis, Missouri

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