

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in metallized areas and ASTM A325 Type 3 in non-metallized areas. Bolts  $\frac{7}{8}$  in.  $\phi$ , holes  $\frac{13}{16}$  in.  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = AASHTO M 270 Grade 50W = 1,122,020 pounds  
AASHTO M 270 Grade 50 = 7,880 pounds

All structural steel shall be AASHTO M 270 Grade 50W except expansion joints, diaphragms and cross frames below the expansion joint, and structural steel plates of the bearing assemblies below the expansion joints, which shall be AASHTO M 270 Grade 50.

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

Reinforcement bars designated (E) shall be epoxy coated.

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

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

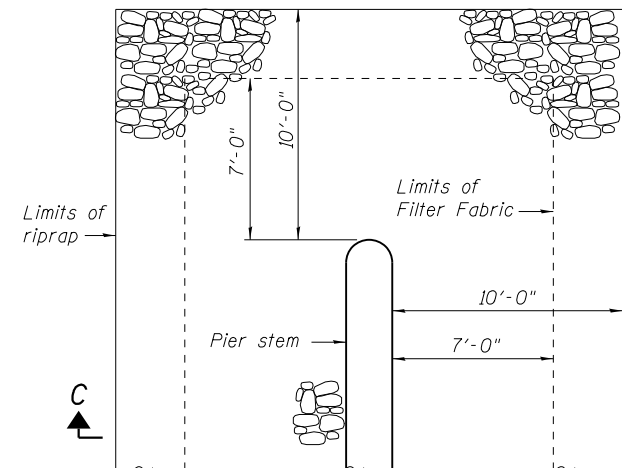
Concrete Sealer shall be applied to the designated areas of the abutments and piers.

All structural steel girders, cross frames, diaphragms, and bearings within a distance of 10 ft. from the expansion joints shall be metallized and painted with a color matching the Federal Color Standard 595a 20045 as specified in the Special Provision for Metallizing Structural Steel. All structural steel components of cross frames, diaphragms, and/or bearings within a distance of 10 ft. from the expansion joints may be galvanized in lieu of metallizing at the Contractor's option. Galvanizing shall be according to the Special Provision for Hot Dip Galvanizing for Structural Steel.

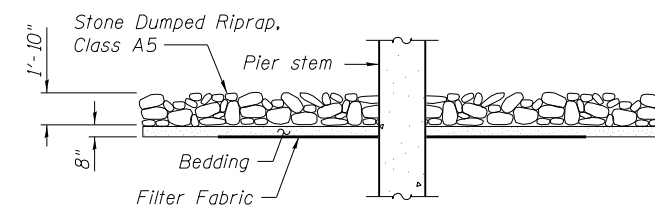
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

**TOTAL BILL OF MATERIAL**

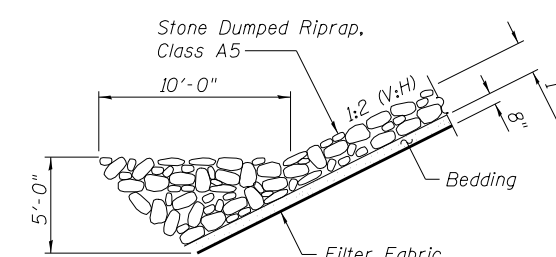
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A5	Sq. Yd.	-	2,115	2,115
Filter Fabric	Sq. Yd.	-	1,640	1,640
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	809	809
Cofferdam Excavation	Cu. Yd.	-	77	77
Cofferdam (Type 2) (Location-1)	Each	-	1	1
Floor Drains	Each	24	-	24
Concrete Structures	Cu. Yd.	-	698.8	698.8
Concrete Superstructure	Cu. Yd.	1,103.9	-	1,103.9
Bridge Deck Grooving	Sq. Yd.	3,028	-	3,028
Seal Coat Concrete	Cu. Yd.	-	39.2	39.2
Concrete Encasement	Cu. Yd.	-	7.7	7.7
Protective Coat	Sq. Yd.	3,998	-	3,998
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	10,392	-	10,392
Reinforcement Bars	Pound	-	33,320	33,320
Reinforcement Bars, Epoxy Coated	Pound	261,610	84,600	346,210
Bar Splicers	Each	2,624	830	3,454
Mechanical Splicers	Each	-	128	128
Furnishing Steel Piles HP12x53	Foot	-	1,485	1,485
Furnishing Steel Piles HP14x73	Foot	-	560	560
Driving Piles	Foot	-	2,045	2,045
Test Pile Steel HP12x53	Each	-	4	4
Test Pile Steel HP14x73	Each	-	2	2
Name Plates	Each	1	-	1
Permanent Casing	Foot	-	60	60
Drilled Shaft in Soil	Cu. Yd.	-	110.7	110.7
Drilled Shaft in Rock	Cu. Yd.	-	48.4	48.4
Preformed Joint Strip Seal	Foot	86.5	-	86.5
Finger Plate Expansion Joint, 4"	Foot	41	-	41
Elastomeric Bearing Assembly, Type I	Each	6	-	6
Elastomeric Bearing Assembly, Type II	Each	18	-	18
Anchor Bolts, 1"	Each	108	-	108
Concrete Sealer	Sq. Ft.	-	1,687	1,687
Geocomposite Wall Drain	Sq. Yd.	-	74	74
Asbestos Bearing Pad Removal	Each	-	24	24
Drainage Scuppers, DS-II	Each	20	-	20
Temporary Sheet Piling	Sq. Ft.	-	939	939
Pipe Underdrains for Structures 4"	Foot	-	192	192
High Load Multi-Rotational Bearings, Guided Expansion, 350K	Each	6	-	6
Granular Backfill for Structures	Cu. Yd.	-	155	155



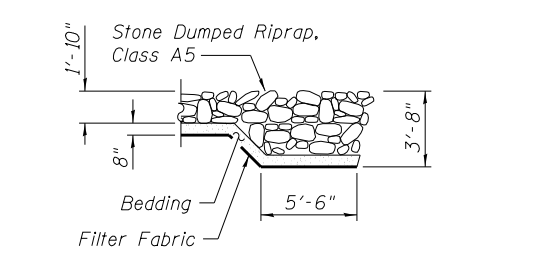
**RIPRAP PROTECTION AT PIERS**



**SECTION C-C**



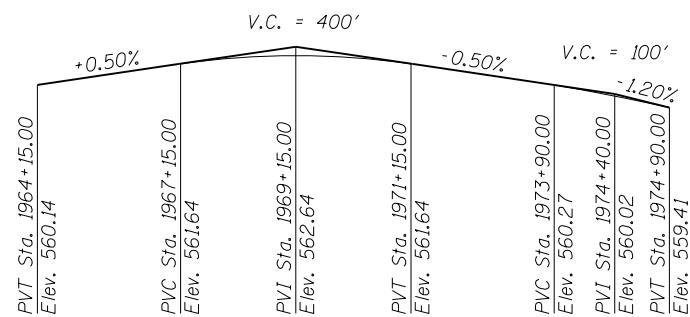
**SECTION A-A**



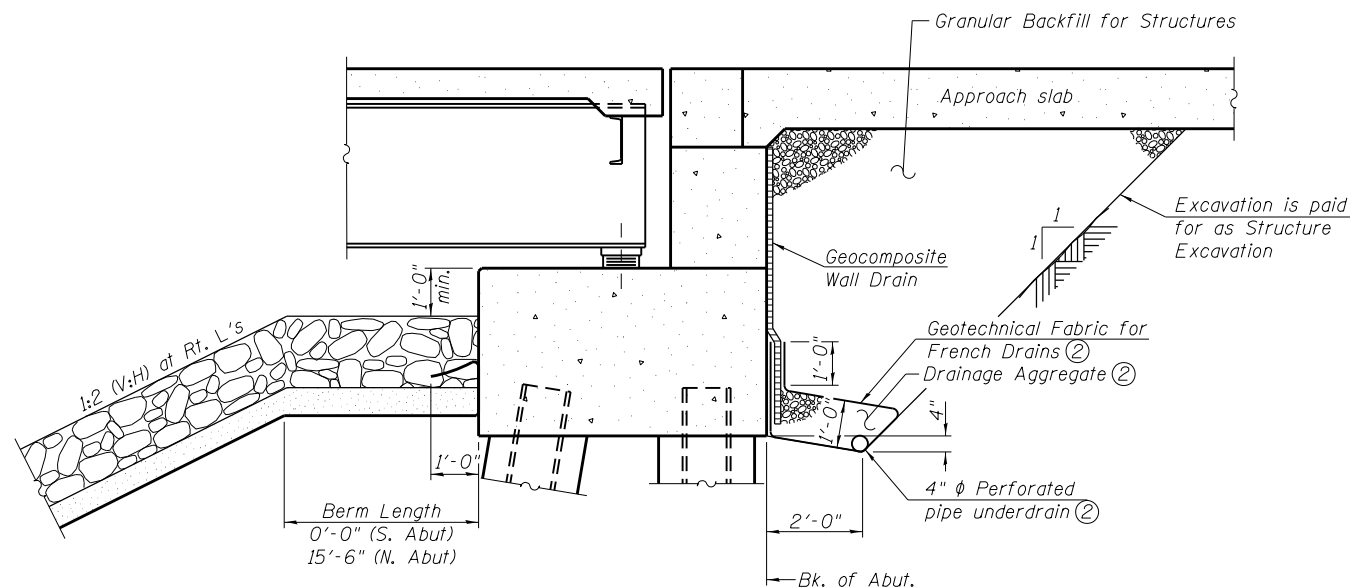
**SECTION B-B**

**INDEX OF SHEETS**

Sheet No.	Description
1	General Plan and Elevation
2	General Data
3	Footing Layout
4-5	Construction Details
6	Temporary Concrete Barrier for Stage Construction
7-14	Top of Slab Elevations
15	Top of South Approach Slab Elevations
16	Top of North Approach Slab Elevations
17-18	Superstructure
19-20	Superstructure Details
21-23	Bridge Approach Slab Details
24	Drainage Scuppers, DS-II
25	Preformed Joint Strip Seal
26-27	Finger Plate Expansion Joint
28-29	Framing Plan and Girder Details
30-33	Girder Details
34-36	Bearing Details
37-39	South Abutment Details
40-42	North Abutment Details
43	Pier 1 Details
44	Pier 2 Details
45	Pier 3 Details
46	Pier 4 Details
47	Pier 5 Details
48	Pier 6 Details
49	Pier 5 and 6 Details
50	HP Pile Details
51	Bar Splicer Assembly and Mechanical Splicer Details
52	Concrete Parapet Slipforming Option
53-62	Soil Boring Logs



**PROFILE GRADE**  
(along  $\bar{C}$  roadway)



**SECTION THRU PILE SUPPORTED STUB ABUTMENT**  
(Horiz. dim. at Rt. L's)

Notes:

- All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the wingwall, until intersecting 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 4".



1500 N. Lincoln  
100 Lamar Court, Suite 100  
Chicago, IL 60624  
Tel: 312.345.2200  
Fax: 312.345.2201

1500 N. Lincoln  
100 Lamar Court, Suite 100  
St. Louis, MO 63101  
Tel: 314.588.2881  
Fax: 314.588.9605

USER NAME =	DESIGNED -	REVISED
PLOT SCALE =	CHECKED -	REVISED
PLOT DATE =	DRAWN - JAD	REVISED
	CHECKED - SUN	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
STRUCTURE NO. 048-0100**

SHEET NO. 2 OF 62 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	(44-B-1)BR	KNOX	122	32
CONTRACT NO. 68759				
ILLINOIS FED. AID PROJECT				