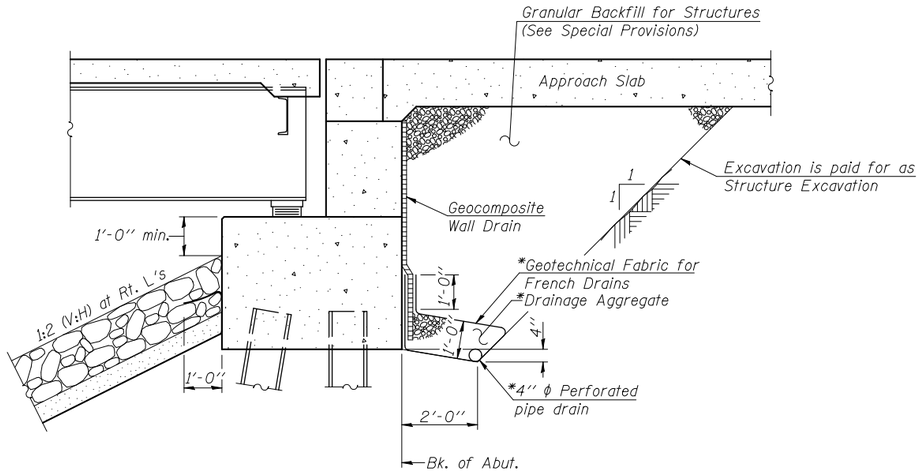


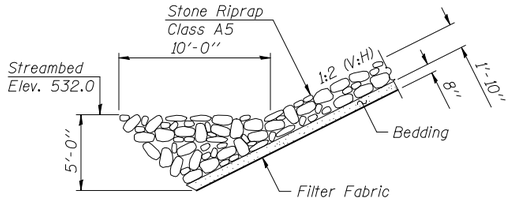
SECTION THRU PILE SUPPORTED STUB ABUTMENT

(Horiz. dim. @ Rt. L's)

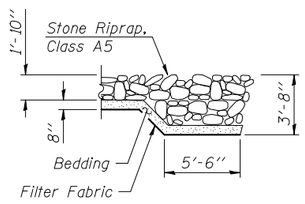
*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:

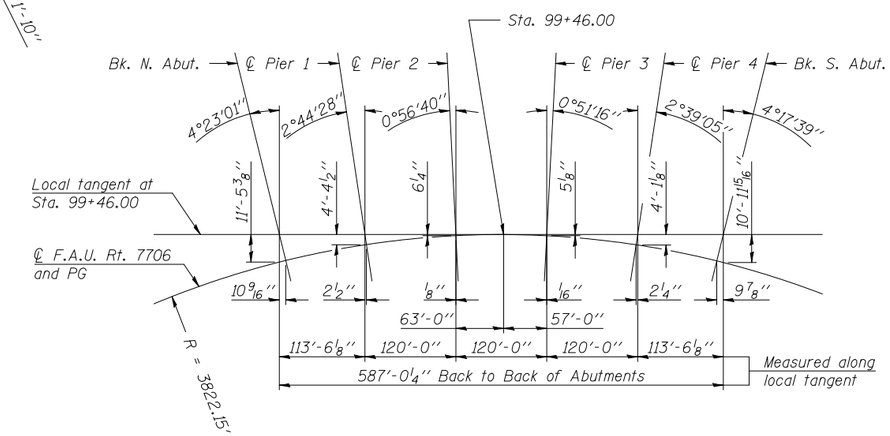
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION A-A



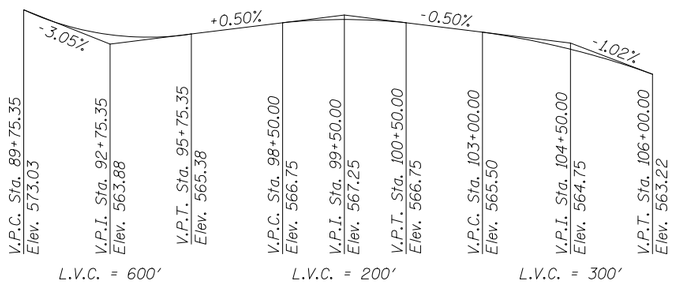
SECTION B-B



OFFSET SKETCH

CURVE DATA

Δ = 43°36'42"
D = 1°29'57"
T = 1,529.20'
L = 2,909.30'
E = 294.56'
R = 3,822.15'
S.E. = 2.8%
P.C. = Sta. 75+86.64
P.T. = Sta. 104+95.94
P.I. = Sta. 91+15.84



PROFILE GRADE

(Along ℄ F.A.U. Rt. 7760)

WATERWAY INFORMATION

Drainage Area = 854.0 Sq. Mi. Low Grade Elev. 560.6 ft. @ Sta. 113+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	16,898	7,974	6,800	553.7	0.5	0.5	554.2	554.2
Design	50	25,296	9,819	8,252	556.4	0.7	0.7	557.1	557.1
Base	100	28,844	10,501	8,789	557.4	0.7	0.8	558.1	558.2
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	37,275	11,684	9,451	559.0	1.2	1.4	560.2	560.4

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	S. Abut.
	556.6	521.0	522.0	522.0	519.0	556.7

DESIGNED	JJD
CHECKED	EML
DRAWN	JJD
CHECKED	EML

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts 3/4 in. ϕ, holes 15/16 in. ϕ, unless otherwise noted.

Calculated weight of structural steel = 1,604,400 AASHTO M270 Grade 50W

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

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 beams or 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 beam at each of these additional bracket locations.

Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of 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.

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

All structural steel and exposed surfaces of bearings within a distance of 10 ft. each way from the deck joints shall be painted as specified in Section 506 of the Standard Specifications.

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

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

Slip forming of the parapets is not allowed.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 7706	23(B-1)	LOGAN	179	86
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
52 SHEETS

Contract #72789

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		5,175	5,175
Filter Fabric	Sq. Yd.		6,426	6,426
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		362	362
Floor Drains	Each	9		9
Concrete Structures	Cu. Yd.		1,022.9	1,022.9
Concrete Superstructure	Cu. Yd.	1,750.3		1,750.3
Bridge Deck Grooving	Sq. Yd.	5,975		5,975
Concrete Encasement	Cu. Yd.		11.9	11.9
Protective Coat	Sq. Yd.	6,636		6,636
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	15,264		15,264
Reinforcement Bars	Pound		102,580	102,580
Reinforcement Bars, Epoxy Coated	Pound	489,100	171,340	660,440
Bar Splicers	Each		1,822	1,822
Furnishing Steel Piles HP12x53	Foot		1,408	1,408
Driving Piles	Foot		1,408	1,408
Test Pile Steel HP12x53	Each		2	2
Name Plates	Each	1		1
Drilled Shaft in Soil	Cu. Yd.		291.4	291.4
Drilled Shaft in Rock	Cu. Yd.		302.1	302.1
Preformed Joint Strip Seal	Foot	92		92
Finger Plate Expansion Joint, 3"	Foot	86		86
Fabric Reinforced Elastomeric Trough	Foot	90		90
Elastomeric Bearing Assembly, Type II	Each	12		12
Elastomeric Bearing Assembly, Type III	Each	12		12
Anchor Bolts, 1"	Each	48		48
Anchor Bolts, 1 1/4"	Each	96		96
Concrete Sealer	Sq. Ft.		1,974	1,974
Geocomposite Wall Drain	Sq. Yd.		155	155
Drainage Scuppers, DS-11	Each	6		6
Pipe Underdrains for Structures 4"	Foot		260	260
High Load Multi-Rotational Bearings, Guided Expansion, 400k	Each	36		36
Granular Backfill for Structures	Cu. Yd.		335	335

HORNER & SHIFRIN, INC.
ENGINEERS

GENERAL DATA
BL-55 OVER SALT CREEK
F.A.U. ROUTE 7706 - SECTION 23(B-1)
LOGAN COUNTY
STATION 99+46.00
STRUCTURE NO. 054-0512