

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated  
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

Temporary support beams for slab shall be installed for Stage I traffic, and shall be placed before Stage I removal.

The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The Rockfill shall be capped with 6 in. of CA6 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for "Rock Fill".

Excavation for soldier pile retaining walls and their deadmen shall be included in the pay item for "Concrete Box Culverts".

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	366
Filter Fabric	Sq. Yd.	606
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	160
Concrete Structures	Cu. Yd.	17.8
Protective Coat	Sq. Yd.	17
Furnishing and Erecting Structural Steel	Pound	8,630
Stud Shear Connectors	Each	88
Reinforcement Bars	Pound	45,450
Reinforcement Bars, Epoxy Coated	Pound	18,650
Bar Splicers	Each	328
Bicycle Railing	Foot	23
Parapet Railing	Foot	44
Slope Wall 4 Inch	Sq. Yd.	23
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	314.6
Furnishing Soldier Piles (HP Section)	Foot	396
Rock Fill	Cu. Yd.	160
Temporary Soil Retention System	Sq. Ft.	669
Temporary Support System	L Sum	1
Driving Soldier Piles	Foot	396
Permanent Steel Sheet Piling	Sq. Ft.	519

**WATERWAY INFORMATION**

Drainage Area = 4.6 Sq. Mi. Low Grade Elev. 490.06 @ Sta. 51+75.00

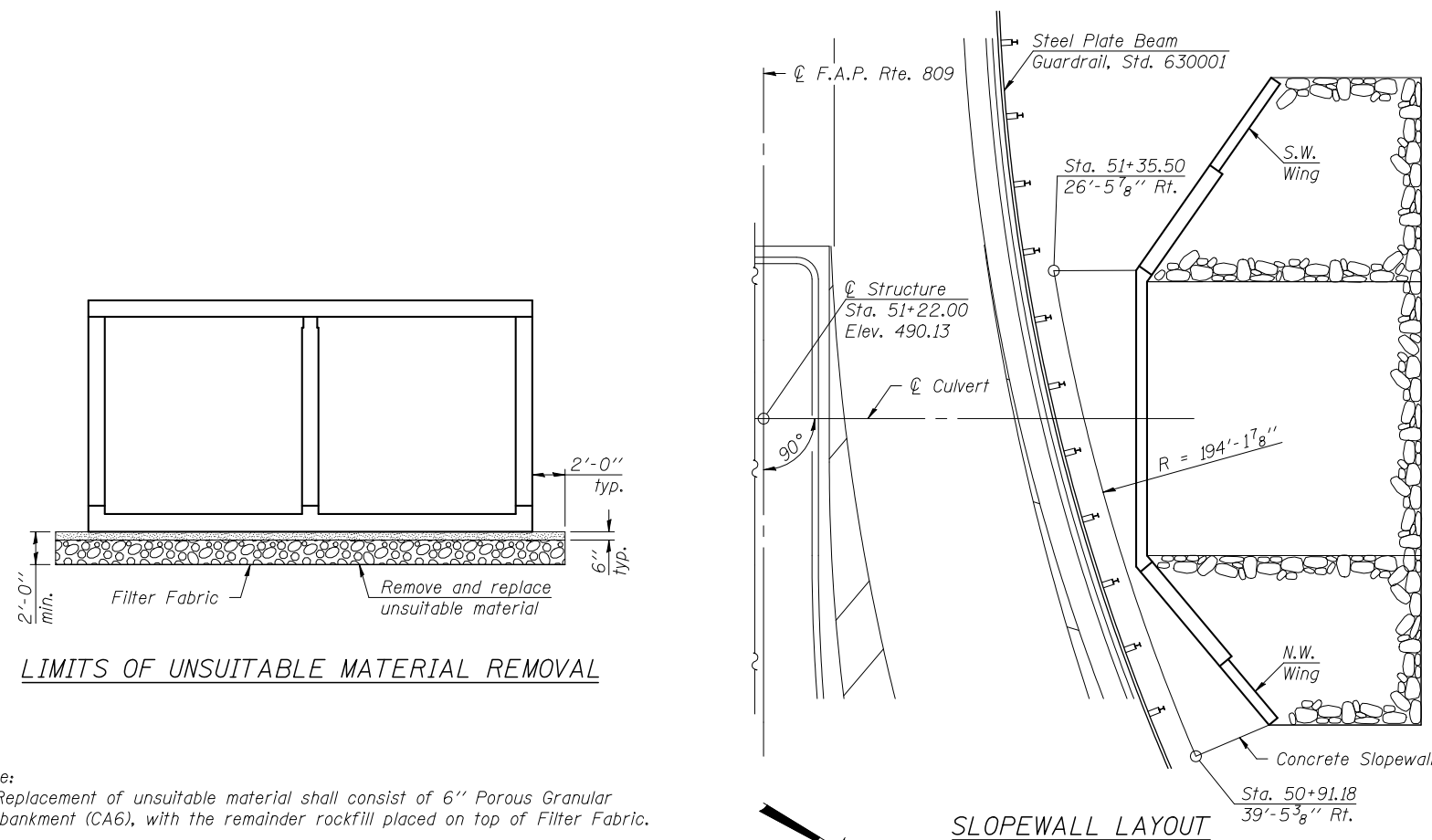
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Min. Calc.	10	1,291	123	221	484.99	1.65	0.00	486.64	484.99
Overtopping	25	1,764	145	---	486.49	3.65	---	489.89	---
Design	50	2,138	152	269	487.00	3.34	0.32	490.34	487.32
Base	100	2,529	161	282	487.64	3.06	0.78	490.70	488.42
Max. Calc.	235	3,050	169	282	488.33	2.69	1.72	491.02	490.05

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	471.34	471.55

STATION 51+22.00  
 BUILT 2011 BY  
 STATE OF ILLINOIS  
 F.A.P. RT. 809 SEC. 135-N  
 LOADING HL-93  
 STRUCTURE NO. 082-2045

**NAME PLATE**  
 See Std. 515001



Note:  
 Slopewall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighting 58 lbs. per 100 sq. ft.

Note:  
 Replacement of unsuitable material shall consist of 6" Porous Granular Embankment (CA6), with the remainder rockfill placed on top of Filter Fabric.

**LIMITS OF UNSUITABLE MATERIAL REMOVAL**