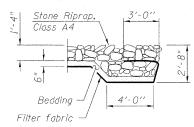
GENERAL NOTES:

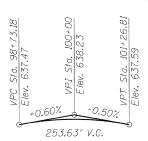
- 1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- 2. All reinforcement bars shall be epoxy coated.
- 3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 4. The Contractor shall make his own investigation to determine the existence, nature, and exact location of all utility lines and appurtenances within the limits of the rehabilitation. The cost of this work will be considered incidental to the contract.
- 5. The Proposed Culvert shall be constructed during an assigned detour. Refer to the special provisions for more information and requirements. Refer to the Civil Plans for details.
- 6. Exposed edges shall have a $\frac{3}{4}$ " chamfer unless noted otherwise.
- 7. Precast alternative is not allowed.
- 8. The unit weight used to calculate "Rock Fill-Foundation" quantities is 2.05 Tons/Cu.Yd.

INDEX OF SHEETS

- S1 General Plan and Elevation
- S2 General Notes, Bill of Materials, and Index of Sheets
- S3 Box Culvert Layout
- S4 Box Culvert Sections
- S5 Typical Box Culvert Details
- S6 Boring Logs



SECTION A-A



PROFILE GRADE

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	228
Stone Riprap, Class A4	Sq. Yd.	175
Filter Fabric	Sq. Yd.	175
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	1,414
Reinforcement Bars, Epoxy Coated	Pound	105,040
Name Plates	Each	1
Concrete Box Culvert	Cu. Yd.	577.6
Geocomposite Wall Drain	Sq. Yd.	250
Steel Plate Beam Guardrail, Attached To Structures	Foot	155
Porous Granular Embankment, Special	Cu. Yd.	333
Rock Fill-Foundation	Tons	467
Geotechnical Fabric For Ground Stabilization	Sq. Yd.	683
Porous Granular Embankment	Cu. Yd.	286

STATION 100+00
BUILT BY
STATE OF ILLINOIS
F.A.U. RT. 1381 SEC. 0101.1-T
LOADING HS-20
STRUCTURE NO. 016-2856

NAME PLATE
See Std. 515001

WATERWAY INFORMATION

Drainage Are	a = 8.91	sq. mi.		ist. Low op. Low					
Flood	Freq.	Q	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwa	iter E
r100d	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop
	10	425	152	207	633.82	0.13	0.02	633.95	633,8
Design	50	645	178	256	635.03	0.34	0.12	635.37	635.1
Base	100	765	178	272	635.65	0.51	0.20	636.16	635.8
Overtopping	Exist.	887	178	272	636.01	0.96	0.41	636.97	637.1
	Prop.	1196	178	272	636.71	0.96	0.41	636.97	637.1
Max. Calc.	500	1005	178	272	636.59	0.69	0.37	637.28	636.9

10 year velocity through existing bridge = 2.8 fps 10 year velocity through prop. bridge = 2.1 fps

DESIGN SCOUR ELEVATION TABLE

Design Scour	Upstream	Downstream
Elevation (ft.)	621.44	621.00

FILE NAME =	USER NAME =		DESIGNED -	JMS	REVISED -	
			CHECKED -	LDB	REVISED -	
	PLOT SCALE =		DRAWN -	DR	REVISED -	1
	PLOT DATE =	: .	CHECKED -	JMH	REVISED -	1

GENERAL NO	TES, BILL OF I	MATERIALS	AND INDEX	OF SHEETS				
STRUCTURE NO. 016-2856								
	SHEET NO). S2 OF S6 S	SHEETS					