

WATERWAY INFORMATION

ə Area = 1	39 Sq.	Mi.	Existing Low Grade Elev. 658.50 👁 Sta. 30+50 Proposed Low Grade Elev. 658.50 👁 Sta. 30+50						
	Freq.	Q	Opening Sq. Ft. Nat		Nat.	nt. *Head - Ft.		Headwater El.	
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
· · · · ·	10	339	118	196	657.4	0.1	0.0	657.5	657.4
	50	562	124	210	658.2	0.4	0.1	658.6	658.3
	100	663	124	210	658.4	0.6	0.2	659.0	658.6
oing (exist.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
oing (prop.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
lc.	500	913	124	210	659.0	1.0	0.4	660.0	659.4
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10 Yr. Velocity = 1.7 ft/sec. (Proposed) 10 Yr. Velocity = 2.9 ft/sec. (Existing)

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TOTAL BILL OF MATERIAL-BOX CULVERT

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	98
Stone Riprap, Class A4	Sq. Yd.	371
Filter Fabric	Sq. Yd.	371
Removal Of Existing Structures No. 2	Each	1
Reinforcement Bars	Pound	10,130
Reinforcement Bars, Epoxy Coated	Pound	510
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	71.4
Precast Concrete Box Culvert 10'x7' (M273)	Foot	114
Rock Fill	Cu. Yd.	98

GENERAL NOTES

- <u>USERTAL INVIES</u>
 1.) Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
 2.) Reinforcement bars designated (E) 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.) Cast-In-Place concrete exposed edges shall be beveled 3/4".
 5.) It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of water diversion shall be included with the cost of "Concrete Box Culverts".
 6.) Structurel sequed does not lockly design of precast elements.

- approval of the Engineer and the cost shall be included with the cost of "Concrete Box Culverts".
 Structural seal does not include design of precast elements.
 The precast concrete culvert sections shall be designed and manufactured in accordance with AASHTO WE73 (ASTM C 850).
 For backfilling and embankment, see Standard Specifications.
 End of precast section shall not have a bell or spigot.
 Contractor to confirm all precast culvert dimensions with supplier before starting construction. All applicable cast-in-place concrete dimensions shall match precast culvert dimensions.
 See Sheet BB for soil borings.
 The last section of precast culvert shall have an integral toe wall and reinforcing bars extending from the precast culvert as shown on Sheet B3.
 The pay item "Removal and Disposal of Unsuitable Material" shall include the excavation of usuifable material for a depth of ±1'-6" below the structure for a width of 39'-6" within the limits of the toe walls as shown on the plans. The actual amount shall be determined in the field by the Engineer.
 The pay item "Rock Fill" shall include the placement of CA-7 and Gradation 1 below the structure for a width of 39'-6" within the limits of the toe walls as shown on the plans. The actual amount shall be determined in the field by the Engineer.
 The Contractor shall reshape the channel within the Right-Of-Way in order to facilitate drainage and the placement of riprop as directed by the Engineer. The cost of reshape the channel shall be included in the cost of reshaping Structures".

INDEX OF SHEETS

	SHEET NO.	TITLE
	B1 B2	GENERAL PLAN AND ELEVATION STONE RIPRAP LAYOUT PLAN
nte 8/ 4/10	B3	LONGITUDINAL SECTION, SECTION THRU PRECAST BARRELS AND PRECAST END ELEVATION
ENGINEER	B4	CAST-IN-PLACE CONCRETE CULVERT SECTIONS, DETAILS AND BILL OF MATERIAL
)	85 86	CAST-IN-PLACE TOP SLAB PLAN AND SECTION CAST-IN-PLACE BOTTOM SLAB PLAN AND SECTIONS
	B7 B8	WINGWALLS SOIL BORING LOGS

				IL.	PLAN AND EL ROUTE 116 OV ARY TO KELLY	<u>'ER</u>		
			F.A.P. 681 - SECTION 116BR					
FORD COUNTY								
	<u>STATION 26+64.00</u>							
	lakness with Precaster. <u>STRUCTURE NO. 027-2018</u> rade Line.							
B1	F.A.P. RTE.		SECTION	- 	COUNTY	TOTAL SHEETS	SHEET NO.	
	681		*		FORD/IROQUOIS	146	48	
S					CONTRACT N	D. 6688	30	
	FED. RC	DAD DIST.	NO. ILLIN	NOIS FED.	AID PROJECT			
	* 116	BR/[116	BR, (BR-2)	BR, I 8	BR-3]		24-8271	