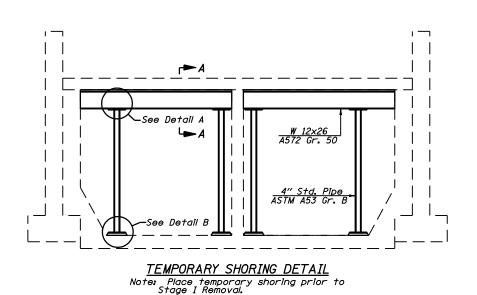
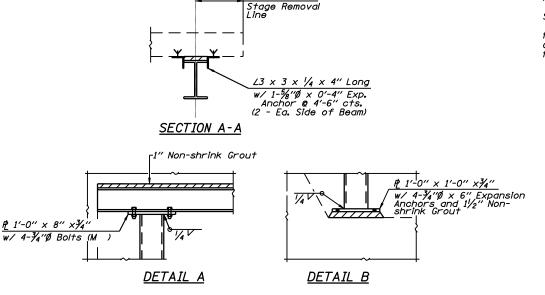


Estimated Exposed Area to be Retained: 450 sq. ft. (Stage I) 433 sq. ft. (Stage II)



Notes



<u>1'-0" _| ¢</u> Rdwy. &

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 2	Each	1
Concrete Box Culverts	Cu. Yd.	364.6
Reinforcement Bars	Pound	63240
Reinforcement Bars, Epoxy Coated	Pound	2020
Furnishing Steel Piles HP 12x53	Foot	504
Driving Piles	Foot	504
Test Pile, Steel HP 12x53	Each	2
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	883
Rockfill - Foundation	Ton	370
Bar Splicers	Each	109
Granular Culvert Backfill	Cu. Yd.	1560
Temporary Shoring	Each	1
	i	

WATERWAY INFORMATION

Drainage Area =	1.15 Sq	. Mi.		Ex. Low (⊙ Sta. 219+00					
Flood	Freq.	a	Opening Sq. Ft.		Nat.	Head - ft.		Headwater El.		
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
	10	507.1	69	94	561.98	0.57	0.00	562.55	561.98	
Design	50	839.4	92	114	563.26	0.99	0.00	564.25	563.26	
Base	100	987.6	100	122	563.75	1.18	0.18	564.93	563.93	
Overtopping	-	-	-	-	_	-	-	_	-	
Max. Calc.	500	1355	120	140	564.88	1.82	0.95	566.70	565.83	

GENERAL NOTES

A Precast Box Culvert alternative will not be allowed at this site. Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before Stage I Removal. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.

For backfilling and embankment, see Standard Specifications.

Exposed edges shall have standard ³4" chamfer unless otherwise noted.

Removal and replacement of weak soils with Rockfill - Foundation may be required beneath the culvert. The Engineer will determine the required depth following excavation to plan grade.

A ±2.1 ft. void exists between the bottom of the existing bridge and the top of the existing culvert.

At least seven ft. of barrel shall be poured monolithically with the N.W. and

Removal of the slab on the existing bridge creates an unstable condition for the existing abutment walls. The primary vertical reinforcement is in the face of the wall closest to the stream. Bracing of the walls or excavation prior to Stage I Removal will be necessary to prevent collapse.

<u>DESIGN SPECIFICATIONS</u> 2002 A.A.S.H.T.O. Specifications

LOADING HS 20-44

Allow 50#/Sq. Ft. for future wearing surface. **DESIGN STRESSES**

FIELD UNITS f'c = 3500 psi fy = 60000 psi (Reinf.)

GENERAL PLAN

IL. ROUTE 125 OVER

TRIBUTARY TO LOST CREEK

F.A.P. ROUTE 67 - SECTION (6X-1)B-2

CASS COUNTY

STA. 217+67.54

S.N. 009-2507

COUNTY

ASS



Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907

SHEET OF 11 SI

NO. 2	F.A.P. RTE.	SECTION					COUNTY	TOTAL SHEETS		SHEE NO.
	67	(6X-1_B-2					CASS	71		45
SHEETS							CONTRACT	NO.	72	875
	FED. RO	DAD DIST.	NO.	ILLINOIS	FED.	ΑII	D PROJECT			