

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S.1746	*	MONTGOMERY	11	5

PROJECT

* 03-00122-00-BR

TOTAL BILL OF MATERIAL

Item	Super	Sub	Total
Channel Excavation			2114
Stone Dumped Riprap, Class A5			1293
Filter Fabric			1390
Removal of Existing Structures			1
Structure Excavation			254
Concrete Structures		189.1	189.1
Precast Prestressed Concrete Deck Beams (21" Depth)	4365		4365
Reinforcement Bars		14240	14240
Steel Railing Type S1	316		316
Furnishing Steel Piles HP 10x42		827	827
Driving Piles		827	827
Test Pile, Steel HP 10 x 42		2	2
Name Plates		1	1
Waterproofing Membrane System	492		492
Portland Cement Mortar Fairing Course	936		936
Hot Mix Asphalt Surface Course, Mix "C" N50			62
Underwater Structure Excavation Protection - Location 1			1
Underwater Structure Excavation Protection - Location 2			1

WATERWAY INFORMATION

Drainage Area = 62.6 Sq. Miles		Low Grade Elev. = 99.33		@ Sta. 3+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.
Design	25	5668	743 1228	96.8	0.8 0.2	97.6 97.0
Base	100	7486	743 1313	97.6	1.5 0.4	99.1 98.0
Exist. Overtop.	65					
Prop. Overtop.	Greater than 500 Years					
Max. Calc.	500	9618	743 1334	98.3	2.5 1.2	100.8 99.5

Construction Permits: IDNR/Office of Water Resources has issued Permit DS2005004 for the construction of this project.

DESIGN STRESSES

FIELD UNITS

fc = 1400 psi
fs = 24000 psi

PRECAST PRESTRESSED UNITS

f'c = 5000 psi
f'ci = 4000 psi
f's = 270000 psi
f'si = 201960 psi
1/2" Strands

GENERAL NOTES

See Proposal for Boring Data.
Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified). See Special Provisions. This note supersedes notes on Abutment and Pier Sheets.
The layout of the riprap slope wall may be varied to suit conditions in the field as determined by the engineer.
The contractor shall drive one test pile in a permanent location at the East Abutment and at Pier 1 as directed by the Engineer in the field. The contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of piles.

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Specifications and 2003 & 2004 Interim Specifications.

LOADING HS 20-44

Allow 50#/sq. ft. for Future Wearing Surface.

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "A.A.S.H.T.O. Standard Specifications for Highway Bridges".

Mark A. Henderson 2/22/07
Expiration Date 11/30/2008



EAST FORK SHOAL CREEK
BUILT 200 BY
MONTGOMERY COUNTY
SECTION 03-00122-00-BR
PROJECT BRS-1746(107)
STA. 6+06.00
STR. NO. 068-3352 LOADING HS20

NAME PLATE
(Standard 515001)

GENERAL PLAN & ELEVATION
F.A.S. 1746 (COFFEEN ROAD)
OVER EAST FORK SHOAL CREEK
SECTION 03-00122-00-BR
MONTGOMERY COUNTY