MEMORANI	OUM TO:	RO	AD DESIGN G	ROUP LEAD	ER:	Larry Price			
FROM: HYDRAULIC DESIGN ENGINEER Randall Mungo									
SUBJECT: Hydrologic Data for Bridge over South Fork Edisto River - C								Overflow Bridg	ge
I	Rd./Rte.:		S-22	County	1	Aiken	Const	ruction PIN:	29621
Bridge Length80					Bridg	ge Roadway '	Width_	34 ft.	B 0
				*	End Station 457+21			Skew Angle	
Bridge Span Configuration				,		40'-40' Span	s	·	
Minimum F.G. Elev.			228.20	Minimum Low Steel Elev. 225.70		5.70	Based on:		
Riprap Req'd	Yes_	X	_ No		To Ele	evation		225,70	
COMMENTS: Minimum finshed grade based on 25-year high water (223.70) + freeboard (2.0) + superstructure (2.50). Place Class B riprap on geotextile for erosion control (Class 2, Type B) according to SCDOT Std. 804a. Abutment riprap to have a 10-foot toe extension.									
HIGH WATER DATA (N/A)									
<u>25</u> - Year H.W. Elev. =		223.70	including 1.10 ft. backwater						
100 - Year H.W. Elev. =			224.70	including _		1.50 ft. bac	ckwater		
Highwater Elev	r. = _							· · · · · · · · · · · · · · · · · · ·	
Highwater Elev. =									
HYDROLOGY DATA: D.A. = 439.2 sq. mi. $Q(25) = 1,205$ cfs Area furnished under Elev. = 258 sq. ft. Vel. = 4.67 ft./sec. $Q100 = 1,715$ cfs Area furnished under Elev. = 321 sq. ft. Vel. = 5.34 ft./sec. OVERTOPPING FLOOD: $Q = 2,567$ cfs Probability < 0.002 (500-year) Hydraulic Design Engineer URS for Randall Mungo									
cc: Bridge Design Squad Leader Glenn Patterson Program Manager Michelle Sheperd									

Hydrology Data for Bridge

November 30, 2004

DATE: