REVISED HYDROLOGY DATA SHEET

Hydraulic Design Engineer

	DATE: October 7, 2002
MEMORANDUM TO ROAD DESIGN SQUAD LEADER Jim Sease	
FROM HYDRAULIC DESIGN ENGINEER Mark. W. Hammond	
SUBJECT: Hydrology Data for Bridge Over <u>Calhoun Creek</u>	
Rt/Rd SC 28 Construction PIN 26436	
Bridge Length 120 Ft. Bridge Roadway Width 44	
Beg. Station 109+37.16 End Station 110+57.16	Skew Angle <u>0°</u>
Minimum F. G. Elev. 543.2 End Fill Slope 2:1	
Riprap Req'd Yes X No To Elevation 540.94 COMMENTS:	
Minimum Low Chord Elevation = 541.0'	
HIGH WATER DATA:	
50 Year H. W. Elev. = 538.94 including 0.28 Ft. Backwater	
100 Year H. W. Elev. = <u>539.26</u> including <u>0.32</u> Ft. Backwater	
Highwater Elevation =542.2 (1928)	
Highwater Elevation =531.2 (1953)	
HYDROLOGY DATA:	
D. A. = 5.413 sq. mi.	
$Q_{50} = \underline{1188.14}$ cfs Area furnished under	
Elev. $538.94 = 345.8$ sq. ft.	
$Vel. = \underline{3.99} ft/sec$	
$Q_{100} = \underline{1373.61}$ cfs Area furnished under	
Elev. $539.26 = 378.4$ sq. ft.	
Vel = 4.29 ft/sec	
OVERTOPPING FLOOD:	
$Q = _{3900}$ cfs	
Probability = $less than 0.2\%$	

cc: Bridge Design Squad Leader _____ Jerry Phipps__