

Date: xx/xx/2002

Memorandum to: Road Design Group Coordinator
Bridge Design Squad/Team Leader

Wilbur Smith

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From: Hydraulic Design Squad/Engineer Wilbur Smith

Subject: Hydrology Data for Bridge Over _____ McKenley Creek

County: Abbeville Rd/Rte.: SC 72 Const. Pin: 28266

Structure No.: 140072002007.160

Bridge Length: 217'-10" ft. Bridge Roadway Width: 85'-10" ft.

Beg. Station: 382+30.05 End Station: 384+67.88 Skew Angle: _____°

Bridge Span Configuration:	69'-5"-79'-69'-5"
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Bridge Span Type: _____

Min. F. G. Elev.: 416.4 ft. Min. Low Steel: 410.18 ft.

End Fill Slope: 2 Riprap Req'd: Yes X To Elevation: 408.40 ft.

No

Comments:

Historical Highwater Elev. =

Maximum Backwater Elevation Upstream of the Bridge

50 Year H. W. Elev. = 406.40 including ft. Backwater

100 Year H. W. Elev. = 407.18 including 0 ft. Backwater

HYDROLOGY DATA:

D. A. = 33.6 sq. mi. = ac.

Q50= 3749 cfs

Vel. = _____ 4.2 ft/sec

50 Year W.S. Elev = 406.40 ft.

$$Q_{100} = 4335 \text{ cfs}$$

Vel. = 4.4 ft/sec

100 Year W.S. Elev = 407.18 ft.

OVERTOPPING FLOOD:

$$Q = \quad \text{cfs}$$
$$\text{Probability} = \frac{1}{1000} < 0.002$$

cc: Program Manager Meetze