DATE: <u>7-29-02</u>

MEMORANDI	JM TO ROAD DESIGN SQUAD LEADER Sease
	AULIC DESIGN ENGINEER GIVENS
	Hydrology Data For Bridge Over Pack (ceel
	Rt/Rd SC-28 Construction PIN 26440
Bridge Length	175 Ft. Bridge Roadway Width 44 Ft.
	285+95 End Station <u>Z87+70</u> Skew Angle <u>25°</u>
	Cord Elev. 473.59 Minimum F. G. Elev. 478.54 End Fill Slope 2:1
	es V No To Elevation 472
	Pemove old bridge abtments boosted down stream of bridge.
	HIGH WATER DATA:
	Elev. = 471.66 including 07 Ft. Backwater
	Elev. = 472.39 including .08 Ft. Backwater
Highwater Elev	ation = <u>Calculated</u> Sooyr WSEL = 473.75ft
Highwater Elev	ation =
	HYDROLOGY DATA:
	D. A. = 20.22 sq. mi.
	Q ₅₀ = 2725 cfs
	Area furnished under
	Elev. $471.36 = 174 \text{ ft}^2$
	$Vel. = \underline{7.32} ft/sec$
	$Q_{100} = 3151$ cfs
	Area furnished under
	Elev. $472.05 = 1271$ ft ²
	Vel. = 2.4 % ft/sec
	OVERTOPPING FLOOD:
	Q = <u>~ /3, 000</u> cfs
	Probability = < .002

Hydraulic Design Engineer

cc: Bridge Design Squad Leader Kom