

Memorandum

To: Dan Texler
Design Branch 12
Norbert Gee
Special Funded Projects

Date: November 8, 2001

File: 11-SD-56
EA 11-172800.
Gonzales Creek Bridge
McGonigle Creek Bride
Gonzales Creek off-ramp
Gonzales Creek on-ramp
New Bridges

From: **Department of Transportation**
Engineering Service Center
Office of Structure Maintenance and Investigations

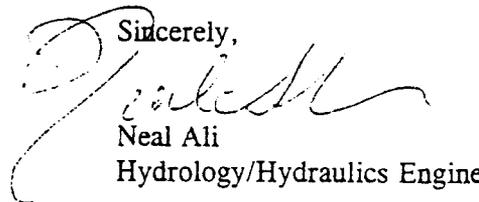
Subject: Hydraulic Evaluation for Gonzales Creek Bridge, Gonzales Creek On and Off-Ramps and the McGonigle Creek Bridge.

After further evaluation with Structure Foundations and Design, Structure Hydraulics has determined to place all new top of footings at the Thalweg elevation of the creek. Cross-sections are attached for your review.

For the Gonzales Creek main Structure the top of footings for pier 2 and pier 3 should be placed at 42.7 meters. For the McGonigle Creek Bridge top of footings should be placed at 67.0 meters. For the Gonzales Creek Off-Ramp top of footings should be placed at 41.60 meters and for the Gonzales Creek On-Ramp at 43.70 meters.

If you have any questions, please contact me at 227-0442.

Sincerely,



Neal Ali
Hydrology/Hydraulics Engineer

Cc: Bill Lindsey
Javid Sharifi
Sandy Inouye
Hector Valencia
Erich Newport
Mark Palmer

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Subject: Hydraulic Evaluation for Gonzales Creek Bridge, Gonzales Creek On and Off-Ramps and McGonigle Creek Bridge.

Please provide the following updated hydraulic information on your design plans.

Gonzales Creek Bridge

Drainage Area: .532 square kilometers

	Design Flood	Base Flood	Overtopping Flood
Frequency	50	100	500
Discharge	6.1 cms	8.5 cms	N/A
Water Surface El.	43.27 m	43.34 m	N/A

McGonigle Creek Bridge

Drainage Area: 7.55 square kilometers

	Design Flood	Base Flood	Overtopping Flood
Frequency	50	100	500
Discharge	39.1 cms	53.0 cms	N/A
Water Surface El.	68.29 m	68.45 m	N/A

Gonzales Creek Off-Ramp

Drainage Area: .532 square kilometers

	Design Flood	Base Flood	Overtopping Flood
Frequency	50	100	500
Discharge	6.1 cms	8.5 cms	N/A
Water Surface El.	42.23 m	42.32 m	N/A

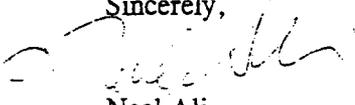
Gonzales Creek On-Ramp

Drainage Area: .532 square kilometers

	Design Flood	Base Flood	Overtopping Flood
Frequency	50	100	500
Discharge	6.1 cms	8.5 cms	N/A
Water Surface El.	44.24 m	44.31 m	N/A

If you have any questions, please contact me at 227-0442.

Sincerely,


Neal Ali
Hydrology/Hydraulics EngineerCc: Bill Lindsey
Javid Sharifi
Sandy Inouye