



DRILL  $\frac{7}{8}$ "  $\phi$  HOLES, 5" DEEP AT THE TOP AND 6" DEEP AT THE BOTTOM (MIN.) FOR  $\frac{3}{4}$ "  $\phi$  H.S. GALVANIZED BOLTS ASTM A449 (EPOXY INJECTION). USE  $\frac{3}{4}$ " GALVANIZED NUT WITH GALVANIZED CUT WASHER.

**SECTION THRU RAIL**

**VIEW FROM ROADWAY**

**NOTES**

FOR ADDITIONAL INFORMATION ON GUARD RAIL, SEE STD. PLAN GR-200 & GR-202.

ALL WORK AND MATERIALS REQ'D. TO INSTALL GUARD RAIL ON THIS TYPE STRUCTURE SHALL BE PAID FOR UNDER ITEM 704-01-01020 GUARD RAIL (SINGLE THRIE BEAM).

ALTHOUGH ITEM 704-01-01020 CALLS FOR 6'-3" POST SPACING, THE NEW POST ON THIS TYPE STRUCTURE SHALL BE PLACED IN THE SAME LOCATION AS THE EXISTING ONES.

GUARD RAIL SPLICES SHALL BE MADE AT POST LOCATIONS ONLY.

ALL HOLES DRILLED INTO AN EXISTING CONCRETE STRUCTURE SHALL BE CLEANED WITH COMPRESSED AIR AND MADE FREE OF ANY OIL OR RESIDUE. HOLES SHALL BE FILLED WITH INJECTION SYSTEM AS LISTED ON QPL 40. PLACE BOLT IN HOLES IMMEDIATELY AND WAIT FOR MANUFACTURERS CURE TIME.

ALL STRUCTURAL STEEL SHALL BE ASTM A-36 AND GALVANIZED. ALL  $\frac{5}{8}$ "  $\phi$  BOLTS SHALL BE ASTM A307.



*Paul B. Fossier, Jr.*  
4-9-09

FOR INFORMATIONAL PURPOSES ONLY

SHEET NUMBER		PARISH		FEDERAL PROJECT		STATE PROJECT	
DESIGNED	CHECKED	DESIGNED	CHECKED	DATE	SHEET	BY	
		J. BENITON	P. FOSSIER	12-2008			
REVISION DESCRIPTION							
NO.							
DATE							
SIDE MOUNTED GUARD RAIL FOR BRIDGES							
BRIDGE AND STRUCTURAL DESIGN							