

**MONTURA RANCH ESTATES CULVERT
G-134**

This structure is a single-barreled corrugated metal pipe culvert, located about one mile below the outlet of the Montura Ranch Estates Reservoir, at the south end of Flaghole Road, about a mile south of Canal L-1. Control is effected by stop logs in a riser at the south end of the culvert.

PURPOSE

This structure permits discharge from the Montura Ranch Estates Reservoir during periods of excessively high stages.

OPERATION

Normally, this structure is closed. It is opened only when the stage in the Reservoir is above elevation 23.0, when back syphoning is being done through the Montura Ranch Estates pumping station.

FLOOD DISCHARGE CHARACTERISTICS---None

DESCRIPTION OF STRUCTURE

Type:	<u>Corrugated metal pipe culvert with upstream control</u>
Number of Barrels:	<u>1</u>
Size of Barrels:	<u>72 inches</u>
Length of Barrel:	<u>80 feet</u>
Flow Line Elevation:	<u>12.24 feet</u>
Crest Elevation:	<u>25.0 feet</u>
Riser Pipes:	
Diameter of Riser:	<u>96 inches</u>
Top of Riser Elevation:	<u>24.24 inches</u>
Water Level which will by-pass structure	<u>22.0 feet.</u>
Stop Logs:	
Size:	<u>7½" X 2½" X 47½"</u>

The elevation of the top of the stop logs is determined by measurement down from a reference point on the top of the header, which is at elevation 24.24.

ELEVATION OF CONTROL WEIR

Number of Boards in Place	Elevation of Weir Crest
0	12.24
1	12.87
2	13.49
3	14.12
4	14.74
5	15.37
6	15.99
7	16.62
8	17.25
9	17.87
10	18.50
11	19.12
12	19.75
13	20.37
14	21.00
15	21.62
16	22.25

Note: Elevation is theoretical. Use actual measurement.

ACCESS: The structure is reached via Flaghole Road, about 6 miles south of U.S. 27.

HYDROLOGIC AND HYDRAULIC MEASUREMENTS

Water Level: Staff gauges at upstream and downstream