

Notes:

All adjacent surface restoration will be completed before conducting a sanitary manhole acceptance test, including finish paving and final adjustments to grade. Any test conducted beforehand shall be considered informal, and will not count for acceptance. Indicate surface restoration C or I below (complete/incomplete).

Vacuum tests will be conducted in accordance with latest applicable standards, such as established procedures based on ASTM C924-86, starting at 10" Hg of vacuum.

502.5.0 SANITARY MANHOLE TESTING

The contractor shall be responsible for process control testing of sanitary manholes and may conduct such tests as necessary during the construction process. The tests required in this subsection are for the information of the Engineer. The results of the tests will not indemnify the contractor of responsibility for defects in the construction.

All sanitary sewer manholes shall be tested for by vacuum testing after completion of backfilling, compaction and surface restoration, including paving. If the manhole fails the test, necessary repairs shall be made by an approved method, and the manhole retested. The manhole shall be repaired and retested until a satisfactory test is obtained.

HYDROSTATIC TESTING

Hydrostatic testing is not allowed.

VACUUM TESTING

Vacuum testing shall be done in accordance with ASTM C 1244-93. All pipes entering the manhole shall be temporarily plugged, and plugs shall be braced. The test head shall be placed in or on top of the manhole ring. A vacuum of 10 inches of mercury shall be drawn on the manhole, the valve on the vacuum line of the test head closed, and the vacuum pump shut off. The time shall be measured for the vacuum to drop to 9 inches of mercury. The manhole shall pass if the time for the vacuum reading to drop from 10 inches of mercury to 9 inches of mercury meets or exceeds the values indicated in the table below.

Minimum test times for various manhole diameters & depth

Depth (feet)	Time (seconds)		
	48 inch	60 inch	72 inch
8 (or less)	20	26	33
10	25	33	41
12	30	39	49
14	35	46	57
16	40	52	67
18	45	59	73
20	50	65	81
22	55	72	89

MANHOLE TEST RECORD

Test Date	MH No.	Paved (C or I)	MH Depth	Vacuum				Comments
				MH Diam.	Time Req.	Vac. Start	Vac. End	

Designed By:	STAFF
Drawn By:	KJD
Checked By:	MPT
Approved:	JMC
Project Name:	
Project Number:	
Contractor:	
Inspector:	



CITY OF GRANTS PASS	
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MANHOLE TEST RECORD	
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