

APPENDIX C - MANHOLE VACUUM TEST

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GENERAL INFORMATION

DATE: _____

CONTRACTOR: _____

CONTRACTOR'S REP: _____

CRANDALL INSPECTOR: _____

OTHERS: _____

PROJECT: _____

LOCATION: _____ MANHOLE No.: _____

D= MANHOLE DIAMETER _____ (m) H= HEIGHT OF MANHOLE _____ (m)

SANITARY MANHOLE VACUUM TEST - ALLOWABLE TIME

THE ALLOWABLE TIME IS 2 MINUTES, REGARDLESS OF MANHOLE DIAMETER, DEPTH AND GROUNDWATER. THE MANHOLE SHALL PASS IF THE TIME FOR THE VACUUM TO DROP MEETS OR EXCEEDS 2 MINUTES (*see next page*).

ALLOWABLE TIME

TALL = 2 MINUTES

SANITARY MANHOLE VACUUM TEST RESULTS

T1 = TIME STARTED AT 33.8 kPa (4.9 psi): _____ IF TACT > TALL IF TACT < TALL

T2 = TIME STOPPED AT 30.4 kPa (4.4 psi): _____

TACT= ACTUAL TIME = T2 - T1 _____ PASS ☐ FAIL ☐

COMMENTS _____

INSPECTOR'S SIGNATURE

FOREMAN'S SIGNATURE

APPENDIX C: MANHOLE VACUUM TEST (Cont'd)

Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test ASTM C1244 - 04

- Conduct testing one manhole at a time
- All lift holes shall be plugged, pipes entering the manhole shall be temporarily plugged, taking care to securely brace the pipes and plugs to prevent them from being drawn into the manhole.
- The test head shall be placed at the top of 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 30.4 kPa of HG.
- The manhole shall pass if the time for the vacuum reading to drop from 33.8 kPa of Hg to 30.4 kPa of Hg meets or exceeds the standard two (2) minute test time.