

FACTORY ASSEMBLED LOW PRESSURE TEST CONTROL PANEL SHALL INCLUDE:

1. LOW PRESSURE GAUGE FOR TEST AREA
2. HIGH PRESSURE GAUGE FOR PLUG INFLATION MONITORING
3. TEST AREA CONTROL VALVE (FILL/EXHAUST)
4. PLUG INFLATION VALVE (FILL/EXHAUST)
5. PLUG INFLATION REGULATOR
6. HOSE CONNECTION FOR TEST AREA (FRONT PLUG)
7. HOSE CONNECTION FOR FILLING FRONT PLUG
8. HOSE CONNECTION FOR RETURN (FRONT PLUG)

GENERAL NOTES:

1. ALL LINES ARE TO BE FLUSHED WITH BALL, SOLID PIG, OR FLUTED PIG WITH ROPE FROM MANHOLE TO MANHOLE, AS APPROVED BY CITY OF RIO RANCHO.
2. FOLLOWING INSTALLATION AND BACKFILLING OF SEWER LINES, A DEFLECTION TEST USING A HAND PULLED MANDREL SHALL BE PERFORMED IN THE PRESENCE OF THE CITY OF RIO RANCHO INSPECTOR.
3. ALL SEWER LINES SHALL BE INSPECTED BY TV VIDEO CAMERA PULLED THROUGH FROM MANHOLE TO MANHOLE AND ONE DIGITAL VIDEO FILE OF THE PROCEDURE SHALL BE PROVIDED TO CITY OF RIO RANCHO. DIGITAL VIDEO FILE FORMAT SHALL BE APPROVED BY THE CITY OF RIO RANCHO BEFORE CAMERAING TAKES PLACE.

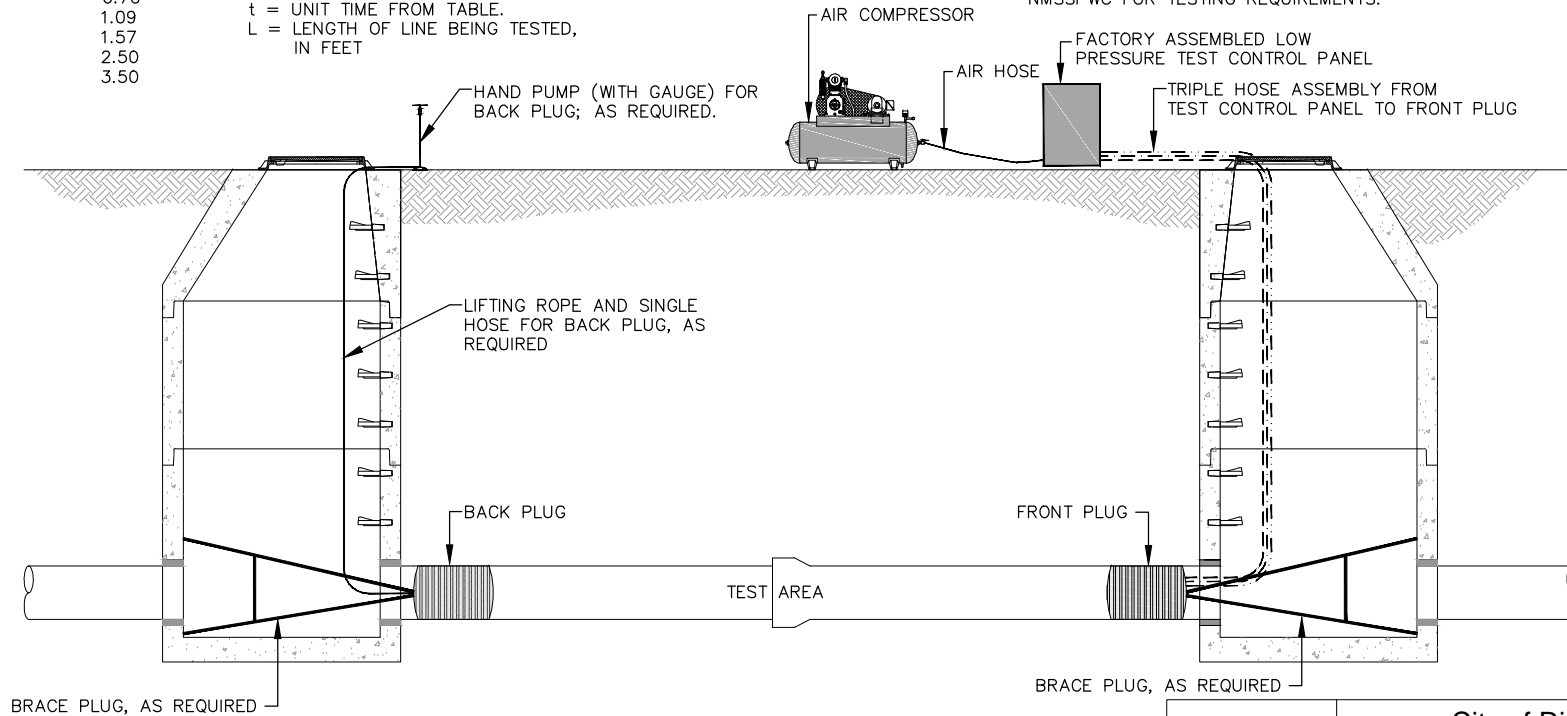
TEST PROCEDURES

1. THE SECTION OF LINE TO BE TESTED SHALL BE PLUGGED AT EACH END AND AT ALL LATERALS, WYES, AND BRANCHES.
2. ONE PLUG SHALL HAVE INLET/OUTLET TAPS FOR THE CONNECTING HOSES.
3. SUPPLY AIR TO THE PIPE SECTION. MONITOR AIR PRESSURE SO THAT PRESSURE INSIDE THE PIPE DOES NOT EXCEED 5.0 POUNDS PER SQUARE INCH GAUGE.
4. WHEN PRESSURE REACHES 4.0 POUNDS PER SQUARE INCH GAUGE, THROTTLE AIR SUPPLY SO THAT INTERNAL AIR PRESSURE IS MAINTAINED BETWEEN 3.5 POUNDS PER SQUARE INCH GAUGE AND 4.0 POUNDS PER SQUARE INCH GAUGE FOR AT LEAST 10 MINUTES. THE 10 MINUTE DELAY ALLOWS AIR TEMPERATURE TO STABILIZE.
4. TURN OFF AIR SUPPLY AND ALLOW AIR PRESSURE TO DECREASE TO 2.5 POUNDS PER SQUARE INCH GAUGE. THE TIME REQUIRED FOR A LOSS OF 1.0 POUNDS PER SQUARE INCH GAUGE AT AN AVERAGE PRESSURE OF 3.0 POUNDS PER SQUARE INCH GAUGE SHALL BE USED TO COMPUTE THE RATE OF AIR LOSS.
5. IF THE TEST TIME IS LESS THAN THE ALLOWABLE TIME COMPUTED FROM THE ALLOWABLE UNIT TIME TABLE SHOWN, THE LINE SHALL BE REJECTED.
6. A HYDROSTATIC TEST APPROVED BY THE CITY OF RIO RANCHO MAY BE USED AS AN ALTERNATIVE TO THE AIR TEST.
7. BRACE FRONT AND BACK PLUG, AS REQUIRED, TO PREVENT PLUG BLOWOUT.
8. ALL SANITARY SEWER MANHOLES SHALL BE TESTED FOR LEAKAGE BY EITHER A WATER EXFILTRATION TEST OR A VACUUM TEST. SEE SEC. 920.5. OF NMSSPWC FOR TESTING REQUIREMENTS.

ALLOWABLE UNIT TIME TABLE

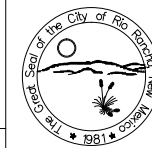
SIZE	t	T(ALLOWABLE TIME) = t x L
4	0.17	
6	0.39	
8	0.70	
10	1.09	
12	1.57	
15	2.50	
18	3.50	

WHERE:
 T = ALLOWABLE TIME IN SECONDS
 t = UNIT TIME FROM TABLE.
 L = LENGTH OF LINE BEING TESTED, IN FEET



DATE MODIFIED:

APRIL 2016



City of Rio Rancho
 Department of Public Works

STANDARD AIR TEST FOR SEWER MAINS

DWG. NO. S-09

APRIL 22, 2016