



MANHOLE GENERAL NOTES																	
<p>1. All manholes shall be built of precast concrete and be of Eccentric Cone type unless otherwise specified.</p> <p>2. Manhole frames and lids in streets shall be machined.</p> <p>3. Top of manhole frame shall be set flush and on same slope as finished surface or as directed by the Engineer.</p> <p>4. Manholes are located on plan sheets by station & distance to center of manhole barrel. Except T Manholes which will be defined by station and offset to CL of pipe.</p> <p>5. Reinforcement in all sections shall equal or exceed A.S.T.M. C-478 specifications.</p> <p>6. Mastic material to be used at all manhole section joints. O-rings may be used for joints below the cone section, but the cone section itself shall not have O-ring joints.</p> <p>7. Approved gasket or concrete mortar to be used around pipe in knock-outs and penetrations.</p> <p>8. Clearance Tolerance of Pipe Openings: The Maximum Allowable Pipe Opening on a Horizontal Axis Shall be the Outside Diameter of the Pipe Plus 12". The Maximum Allowable Pipe Opening on a Vertical Axis Shall be the Outside Diameter Plus 8". The Minimum Clearance Between the Outside Surface of an Installed Pipe and the Concrete of the Manhole Shall be 2".</p> <p>9. Installation of Pipe Openings: All Required Pipe Openings Shall be Plant Cost in Manhole Units. Field Alterations of Openings will be Permitted Provided Walls are Scored With a Masonry Saw to a Depth Sufficient to Sever Reinforcing Steel. A Chipping Hammer May Then be Used to Remove the Concrete. Minimum Distance Between Any Two Adjacent Pipes Shall be 4".</p> <p>10. No direct payment for shaping floor or connecting pipes as shown on plans, unless otherwise specified.</p>																	
<p>RECORD DRAWING 09/04</p> <p>NOTE</p> <p>Any water service lines that need to be replaced shall be replaced with copper tubing and no splices from meter to main. As per C.O.A. Std Dwg. 2362</p> <p>Any existing utilities exposed during construction shall be supported and protected during construction. This shall be considered incidental to project construction and no separate payment will be made.</p> <p>PH # = Pot hole location for existing utilities</p>																	
<p>LARKIN GROUP, INC. CONSULTING ENGINEERS AND SURVEYORS 8500 MICHAEL BLVD. NE #440 (505) 275-7500</p>																	
<p>CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION</p> <p>TITLE: CENTRAL - ATRISCO DRAINAGE IMPROVEMENTS STORM DRAINAGE DETAILS</p>																	
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