

- To rnew pipe connections, provide cored opening with flexible pipe connector.
- (2) For existing pipe connections, provide an arched opening with a diameter up to 6 inches larger than outside diameter of pipe. Install waterstop around existing pipe. Fill void between pipe and opening with non-shrink grout.
- For additional configurations, maintain a minimum of 12 inches of concrete between vertical edges of pipe openings.
- 12 inch minimum riser height above all pipe openings.

Manhole Diameter (inches)	Maximum Pipe Diameter (3) (inches) for 2 Pipes		
	At 180°	At 90 °	
	Separation	Separation	
48	24	18	
60	36	24	
72	42	30	
84	48	36	
96	60	42	

ETE OTTE AG	CHOMADOT	REVISION 1 10-21-14			
SUDAS	⊘ IOWADOT		10-21-14		
FIGURE 6010.303	STANDARD ROAD PLAN	SW-303			
TIOOKE COTOLOGG	TOTAL COLORED TOTAL		SHEET 1 of 1		
REVISIONS: Changed "Chimney Seaf" to "Infiltration Barrier".					
Paul D. Wigard Brian Smith					
SUDAS DIRECTOR DESIGN METHODS ENGINEER					
	ARY SEWER MAN				