

- To rnew pipe connections, provide cored opening with flexible pipe connector.
- 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.
- (3) For additional configurations, maintain a minimum of 12 inches of concrete between vertical edges of pipe openings.
- (4) 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	

		REVISION			
∖&u≥SUDAS	<b>⊘</b> IOWADOT	3	04-21-20		
		SW-303			
FIGURE 6010.303	STANDARD ROAD PLAN				
TIOURE OUTOIOU	STAIRDAND NOAD I LAIR	SHEET 1 of 1			
REVISIONS: Added Class I Bedding Material and removed steps.					
Paul D. Wigard Sturt Nile-					
SUDAS DIRECTOR DESIGN METHODS ENGINEER					
SANITARY SEWER MANHOLE OVER EXISTING SEWER					