

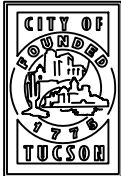

GENERAL

MANHOLE NOTES:

1. THE MINIMUM WALL THICKNESS OF ANY MANHOLE SECTION SHALL BE 1/12 THE INSIDE DIAMETER OF THE BARREL OR THE LARGEST CONE DIAMETER. THE WALL THICKNESS SHALL NOT VARY FROM THE DESIGN WALL THICKNESS BY MORE THAN FIVE PERCENT OR 3/16 INCH (5 millimeters), WHICHEVER IS GREATER. THE VARIATIONS IN LAYING LENGTHS OF TWO OPPOSITE SIDES OF MANHOLE SECTIONS SHALL NOT BE MORE THAN 5/8 INCH (16 millimeters). THE UNDERRUN IN LENGTH OF A SECTION OF MANHOLE BASE, RISER, OR CONICAL TOP SHALL NOT BE MORE THAN 1/4 INCH (20 millimeters) PER FOOT OF LENGTH WITH A MAXIMUM OF 1/2 INCH (13 millimeters) IN ANY ONE SECTION.

MANHOLE FRAME/COVER NOTES:

1. ANY VARIATION FROM THE REQUIREMENTS INDICATED BY THE APPLICABLE STANDARD DETAIL SHALL REQUIRE THE SUBMITTAL OF SHOP DRAWINGS FOR REVIEW AND APPROVAL BY PCWMD.
2. FRAMES AND COVERS SHALL BE MADE FROM FERROUS MATERIALS USING AT LEAST 75% POST CONSUMER WASTE. THE BASIC DESIGN, INITIAL SAMPLE CASTINGS AND FIRST ARTICLE INSPECTION (ALSO KNOWN AS FIRST PROOF LOAD TESTS) MUST BE PR-APPROVED BY PIMA COUNTY WASTEWATER MANAGEMENT BEFORE DELIVERY TO SUPPLIERS OR CONTRACTORS. ALL LETTERING ON THE FRAMES AND COVERS MUST MATCH THAT SHOWN ON THE STANDARD DETAILS UNLESS SPECIAL PERMISSION, IN WRITING, IS OBTAINED FROM PIMA COUNTY WASTEWATER MANAGEMENT.
3. PUBLIC SANITARY SEWER COVERS SHALL BE LETTERED "PIMA COUNTY SANITARY SEWER"
4. LETTERING FOR COVERS SHALL BE STANDARD RAISED BLOCK TYPE, AND SHALL BE 1 1/2" (38 mm) TO 2 1/2" (64 mm) HIGH. THE TOTAL WIDTH OF INDIVIDUAL LETTERS ARE TO BE SUCH THAT LETTERS AND WORDS ARE EQUALLY SPACED AND BALANCED TO FORM A COMPLETE CIRCLE WITH SPACES BEFORE AND AFTER WORDS.
5. THE TOP SURFACE OF THE COVER SHALL SIT FLUSH WITH THE TOP SURFACE OF THE FRAME. A UNIFORM 1/8 INCH (3 mm) CLEARANCE SHALL EXIST BETWEEN THE EDGE OF THE COVER AND THE FRAME. ALL HORIZONTAL BEARING SURFACES SHALL BE MACHINE FINISHED.
6. THE DESIGN AND CONSTRUCTION OF PRIVATE SEWAGE CONVEYANCE SYSTEM MAY UTILIZE (OR MAKE REFERENCE TO) CERTAIN PIMA COUNTY WASTEWATER MANAGEMENT SPECIFICATIONS AND DETAILS; HOWEVER PRIVATE SYSTEMS MANHOLE COVERS SHALL NOT BE IMPRINTED WITH THE WORDS "PIMA COUNTY SANITARY SEWER". INSTEAD, THE SEWER MANHOLE COVERS LOCATED ON MANHOLES IN SANITARY SEWER SYSTEMS TO BE OWNED AND OPERATED BY ANYONE OTHER THAN PIMA COUNTY, SHALL HAVE CAST INTO THEM THE WORDS "PRIVATE SANITARY SEWER", OR OTHER APPROPRIATE DESIGNATION.
7. UNLESS OTHERWISE APPROVED BY PCWMD, THE WEIGHT OF THE FRAME AND COVER SHALL BE NO MORE THAN 2% LESS THAN THE APPROXIMATE WEIGHT SPECIFIED IN THE APPLICABLE STANDARD DETAIL FOR EACH COMPONENT.

ISSUED:		STANDARD DETAIL		DETAIL NO.
8/92		MANHOLE AND		WWM 213.0
REVISED:		MANHOLE FRAME/COVER		SHEET 1 OF 1
7/02				