



NOTES:

1. PROVIDE POSITIVE JOINT REINFORCEMENT AT THE UPSTREAM WASH FACE AND AT 60° INTERVALS AROUND THE CIRCUMFERENCE OF THE MANHOLE FROM THE UPSTREAM FACE. JOINT REINFORCEMENT SHALL BE USED ON ALL MANHOLE SECTION-TO-SECTION, SECTION-TO-GRADE RINGS, AND GRADE RINGS-TO-GRADE RING JOINTS AS DETAILED. ALL SECTIONS SHALL BE SECURED. JOINT REINFORCEMENT SHALL BE USED TO SECURE THE BOTTOM MANHOLE SECTION TO THE MANHOLE BASE.
2. FIELD WELD THE JOINT REINFORCEMENT AS INDICATED ON THE EXTERIOR OF THE BARREL SECTION AND COAT ALL EXPOSED METAL WITH A 4 MIL(100 μm) COAL TAR EPOXY DRY FILM THICKNESS.
3. THE COSTS OF PROVIDING AND INSTALLING THE JOINT REINFORCEMENT SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
4. ALL WELDS SHALL BE IMMEDIATELY QUENCHED WITH TEN WEIGHT (10W) MOTOR OIL AFTER EACH WELD IS COMPLETED.
5. THE ALLTHREAD SHALL BE 5/8”(16 mm), GRADE 2, NON-GALVANIZED, COARSE.
6. FOR MANHOLES WITH MORE THAN 3 BARREL SECTIONS OR MORE THAN 12 FEET DEEP WILL REQUIRE THE SUBMISSION AND APPROVAL OF A SPECIAL JOINT REINFORCING DESIGN BY A REGISTERED STRUCTURAL ENGINEER. MANHOLES WILL BE DESIGNED TO WITHSTAND THE FORCES IMPOSED BY A 100 YEAR FLOOD.
7. USE OF THIS DETAIL FOR MANHOLE IN HIGH EROSION AREAS MUST BE APPROVED BY THE DIRECTOR OF PIMA COUNTY WASTEWATER MANAGEMENT.

ISSUED:		STANDARD DETAIL		DETAIL NO.
8/92		MANHOLE JOINT REINFORCEMENT		WWM 223
REVISED:				
8/05				