



NOTES:

1. SEWER MANHOLE TO BE PREFORMED RUBBER O-RING GASKET DESIGN ONLY. ALL MANHOLES SHALL CONFORM WITH ASTM C-478.
2. MANHOLE FRAME AND COVER AS PER DETAIL DRAWING S-2055.
3. ALL PIPES ENTERING OR EXITING SHALL BE WATER TIGHT.
4. CHANNELS SHALL BE 3/4 VERTICAL HEIGHT OF PIPE WITH A SMOOTH FINISH.
5. ALL SEWER MANHOLE JOINTS SHALL BE INSTALLED WITH PREFORMED RUBBER O-RING GASKETS CONFORMING WITH AASHTO M 315 AND ASTM C-443. ALL OTHER MANHOLES MAY USE PREFORMED FLEXIBLE JOINT SEALANT, KENT SEAL NO. 2 OR PREFORMED PLASTIC GASKETS, RAM NEK, OR APPROVED EQUAL CONFORMING TO AASHTO M 198 AND ASTM C 990.
6. 18" MAXIMUM DROP BETWEEN INVERTS.
7. MIN. 0.20' FALL BETWEEN INLETS AND OUTLET.
8. 8" MINIMUM BETWEEN PIPE ACCESS HOLES INTO MANHOLE. DISTANCE MEASURED AT OUTSIDE OF MANHOLE OR PER MANUFACTURERS RECOMMENDATIONS.
9. SEE MANHOLE STEP DETAIL DRAWING S-2080.
10. PIPE ACCESSES INTO MANHOLES SHALL BE PRE-FORMED OR CORE DRILLED. HOLES SIZE TO EQUAL PIPE O.D. PLUS MANHOLE WALL THICKNESS. NO SAWING OR BREAKING OF MANHOLE SECTION IS ALLOWED.
11. STANDARD MANHOLE TO BE USED OVER EXISTING MAINS AND FOR PIPE 24" OR LESS IN DIAMETER.
12. UTILIZE RAINSTOPPER™ MANHOLE INSERT OR APPROVED EQUAL IN LOW SPOTS OR AS DIRECTED BY CITY ENGINEER.
13. ALL INTERIOR JOINTS AND CONNECTIONS SHALL BE WATERTIGHT AND GROUTED WITH NON-SHRINK GROUT.
14. GRADE RINGS AND CONE SECTION SHALL BE DESIGNED TO WITHSTAND AASHTO H-20 LOADINGS.
15. INSTALL TRACER WIRE THROUGH BOTTOM PICK HOLE. RUN WIRE UP INSIDE WALL SECURING WIRE TO WALL/STEPS AS TO NOT CREATE A TRIPPING OR TANGLE HAZARD. TIE WIRE TO TOP STEP AND LEAVE 24" LONG WIRE LOOP ACCESSIBLE FROM MANHOLE SURFACE. WHERE NO STEPS, TIE WIRE WITH ACCESSIBLE LOOP TO STAINLESS STEEL EYEBOLT.

Standard Manhole

DRAWING NUMBER: S-2005

DRAWN BY: SS

SCALE: N.T.S.

FILE NAME: S-2005.DWG

APPROVED BY: ZW

DATE: 7/23/21

**CITY OF
WILSONVILLE**



PUBLIC WORKS STANDARDS