



NOTES:

1. SEE PLANS FOR LOCATION, DIAMETER, ELEVATIONS AND PIPE SIZE.
2. TROUGH OF MANHOLE MAY BE CAST IN CONCRETE OR BUILT UP WITH MORTAR
3. GROUT ANNULAR SPACE BETWEEN WALL AND PIPE WITH NON-SHRINK MORTAR TO INSURE WATERTIGHT SEAL.
4. ALL PRECAST SECTIONS SHALL CONFORM TO ASTM C478 WITH COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAY TEST. CONCRETE MIX SHALL INCLUDE XPEX OR APPROVED EQUAL.
5. BUTYL RUBBER SEALANT SHALL BE KENT SEAL No.2 OR CONCRETE SEALANTS CS202.
6. MANHOLE STEPS SHALL BE WITHIN 18" OF TOP, 12" O.C.
7. MANHOLE COVERS TO HAVE "SANITARY SEWER" EMBOSSED ON THE COVER. FRAMES SHALL BE JOHN BOUCHARD & SONS NO. 1155, 1123, OR APPROVED EQUAL.
8. GRADE RINGS MAY BE REQUIRED TO ADJUST TOP ELEVATION PRIOR TO FINAL PAVING. BRICKS SHALL NOT BE USED FOR ADJUSTMENT.
9. RUBBER BOOTS SHALL BE KOR-N-SEAL OR PRESS SEAL GASKET CORPORATION OR APPROVAL EQUAL.
10. SEE CITY OF PORTLAND SPECIFICATIONS FOR PRODUCT SPECIFICATIONS.



CITY OF PORTLAND
DEPARTMENT OF UTILITIES – SEWER
STANDARD SEWER DETAILS

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