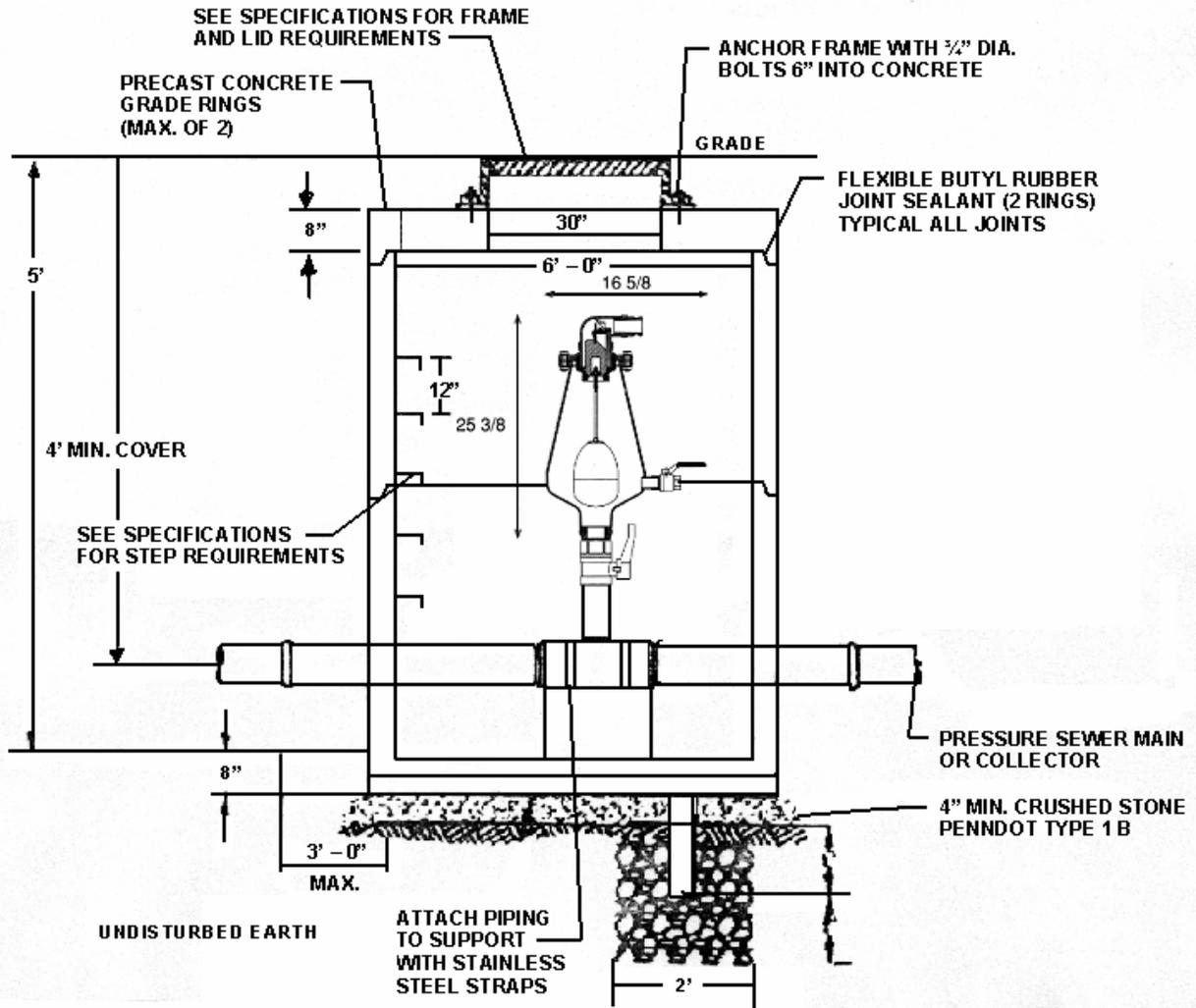


STANDARD DETAILS

Sanitary Sewer System

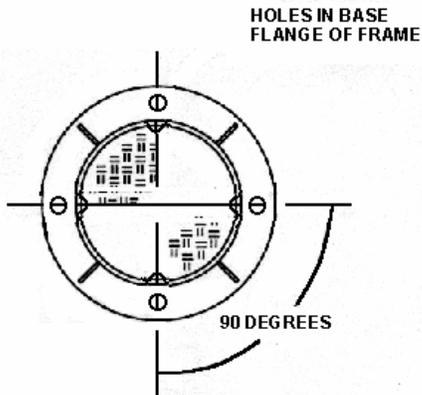
**ANTRIM TOWNSHIP
SANITARY SEWER CONSTRUCTION SPECIFICATIONS**



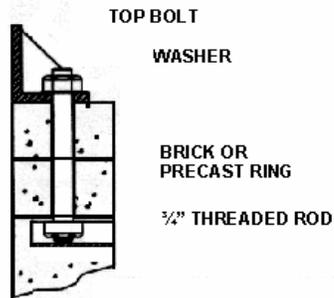
AIR VACUUM / RELEASE VALVE VAULT

(TYPICAL 6' MANHOLE)

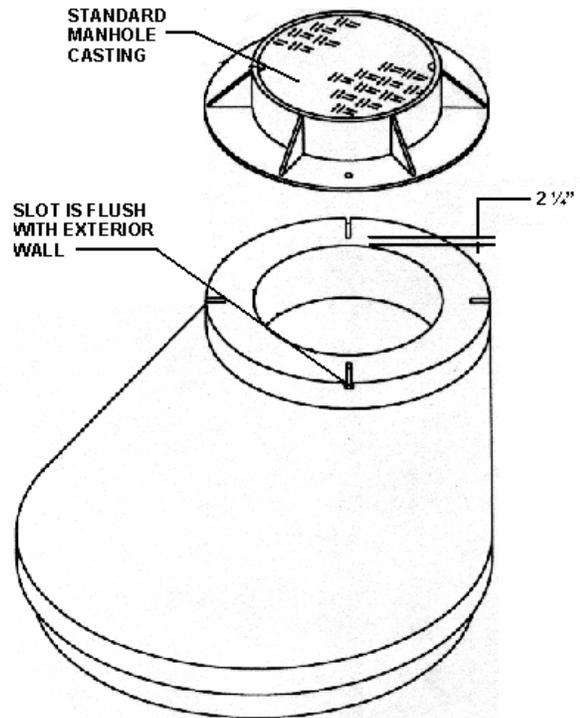
**ANTRIM TOWNSHIP
SANITARY SEWER CONSTRUCTION SPECIFICATIONS**



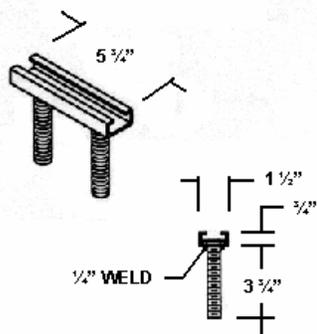
FRAME & COVER



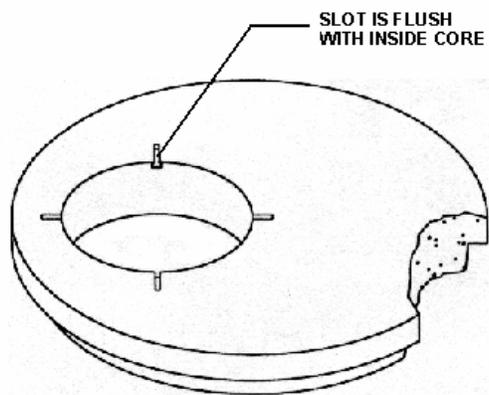
CONNECTION DETAIL



STANDARD CONE SECTION

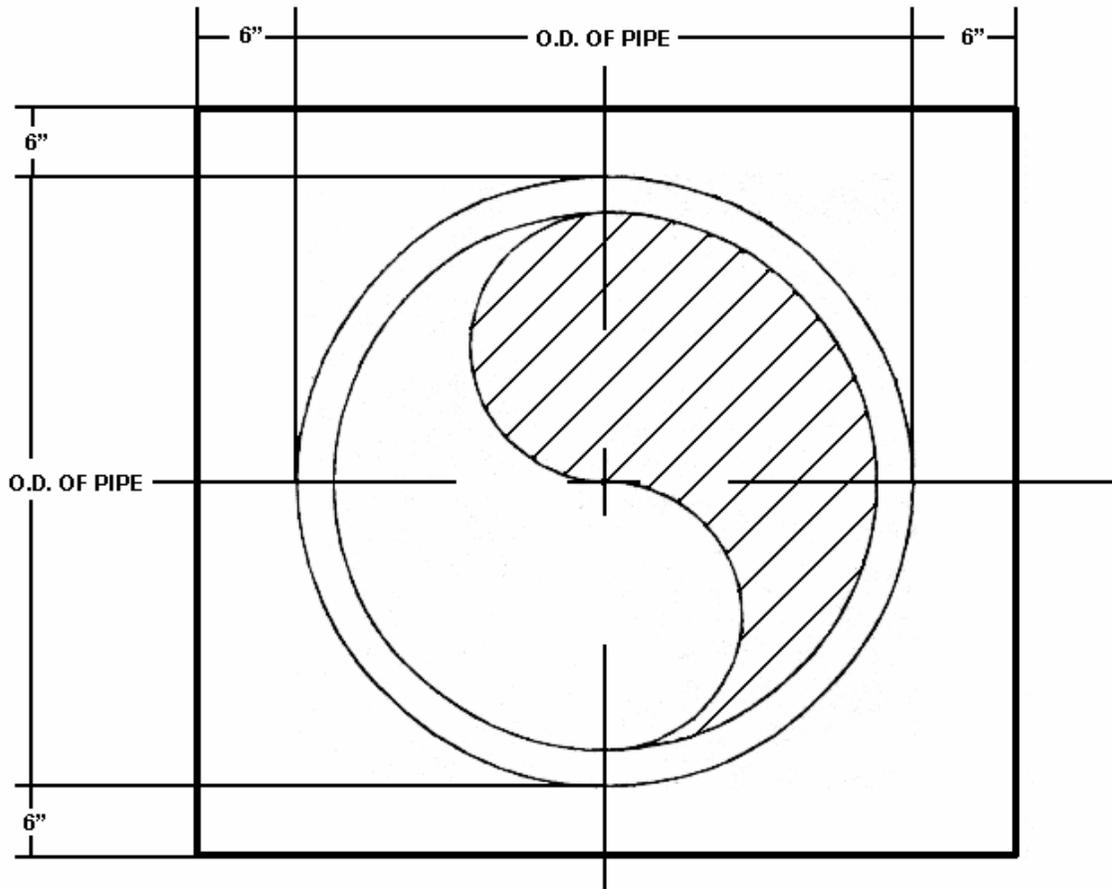


ADJUSTABLE SLOT BOLT

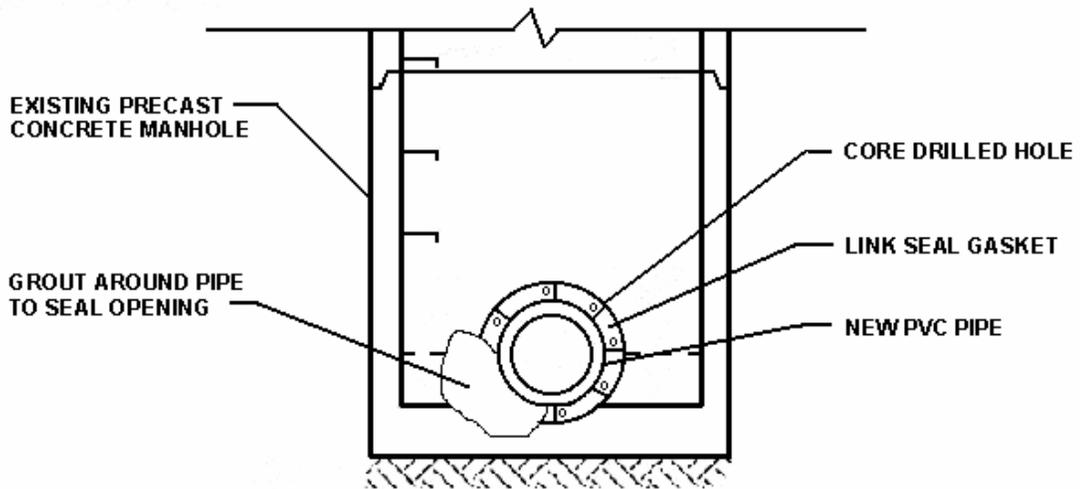
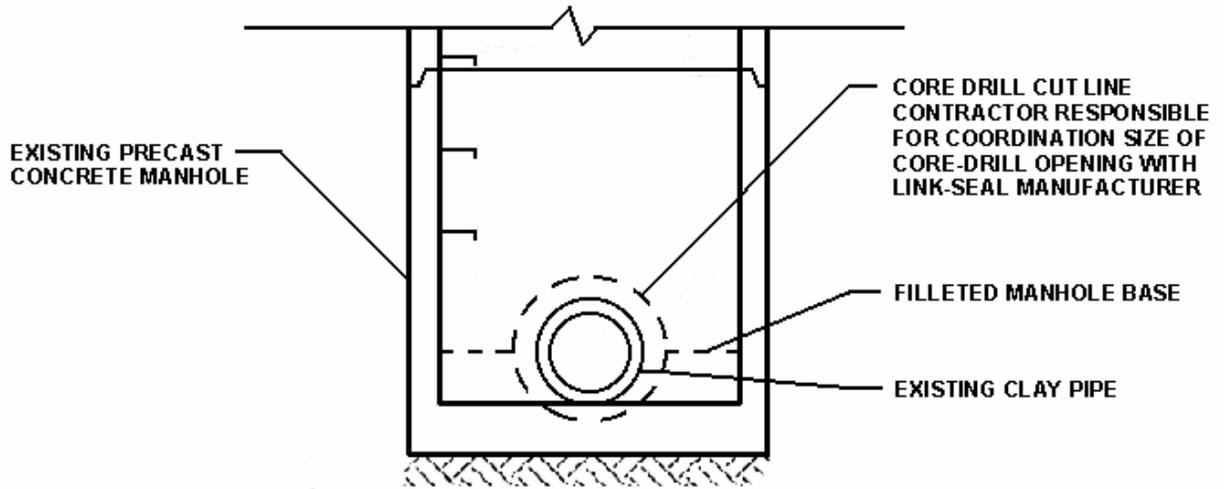


STANDARD FLAT SLAB SECTION

BOLT – SLOT

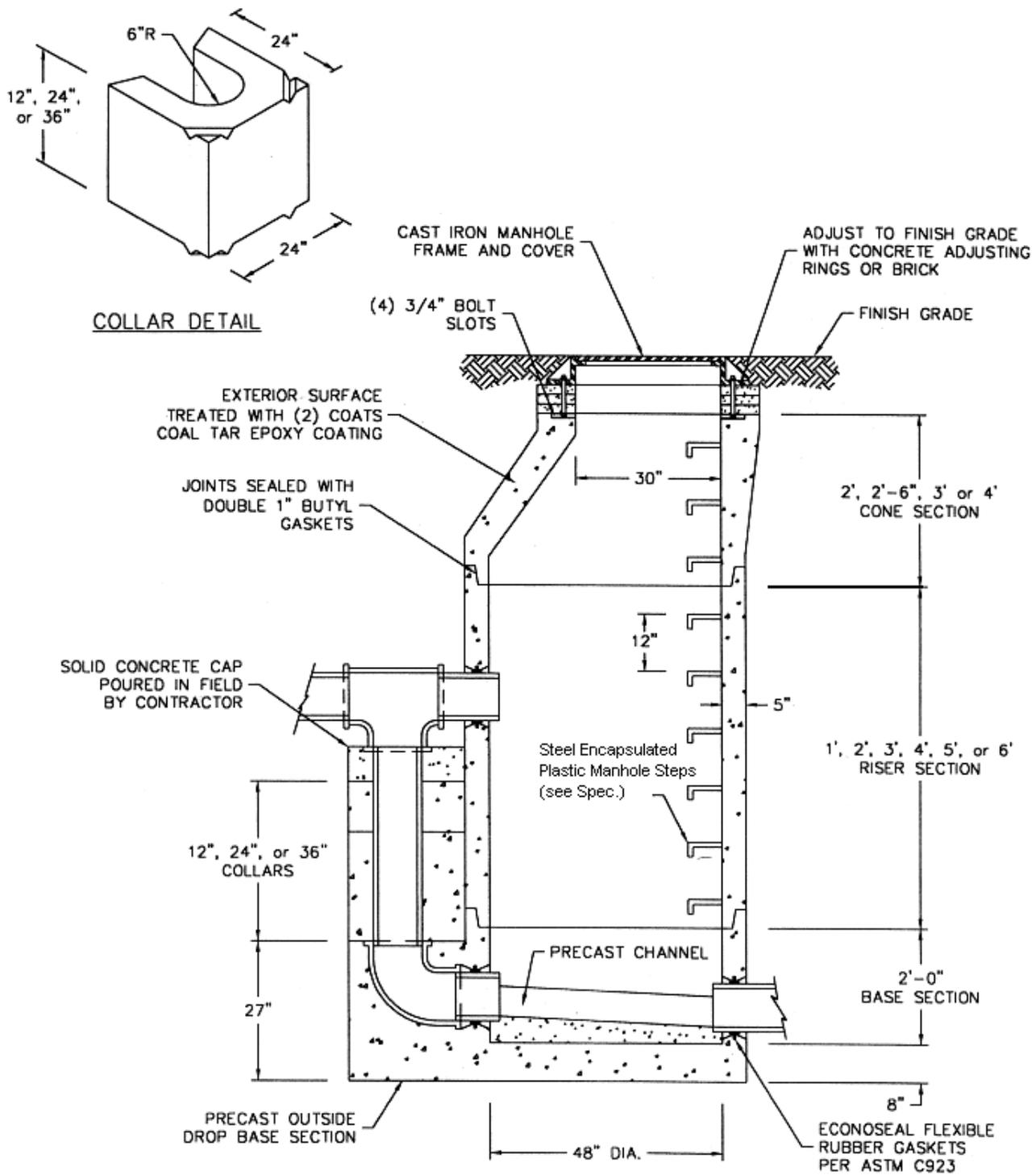


CONCRETE ENCASEMENT



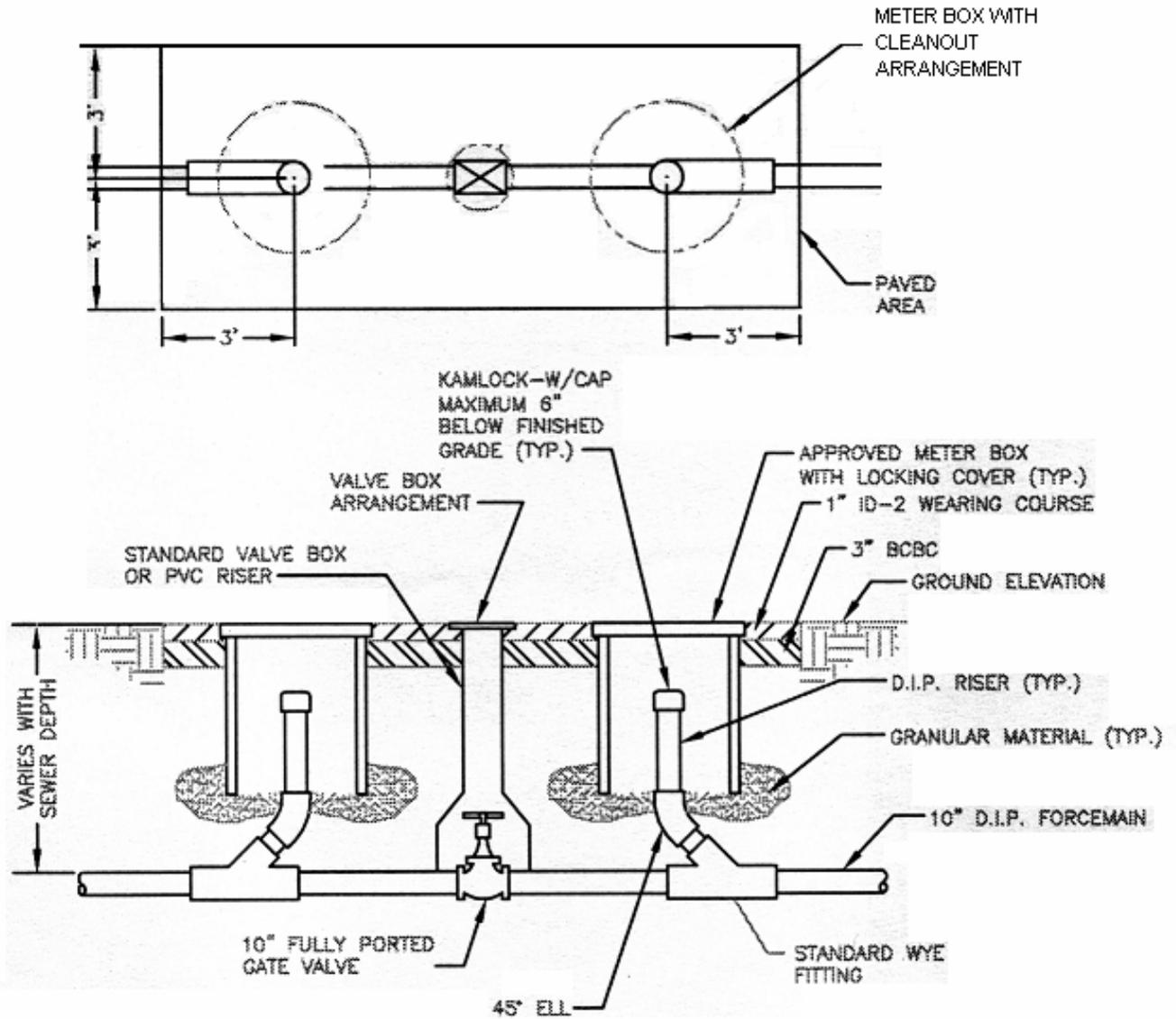
CONNECTION TO EXISTING MANHOLES

**ANTRIM TOWNSHIP
SANITARY SEWER CONSTRUCTION SPECIFICATIONS**



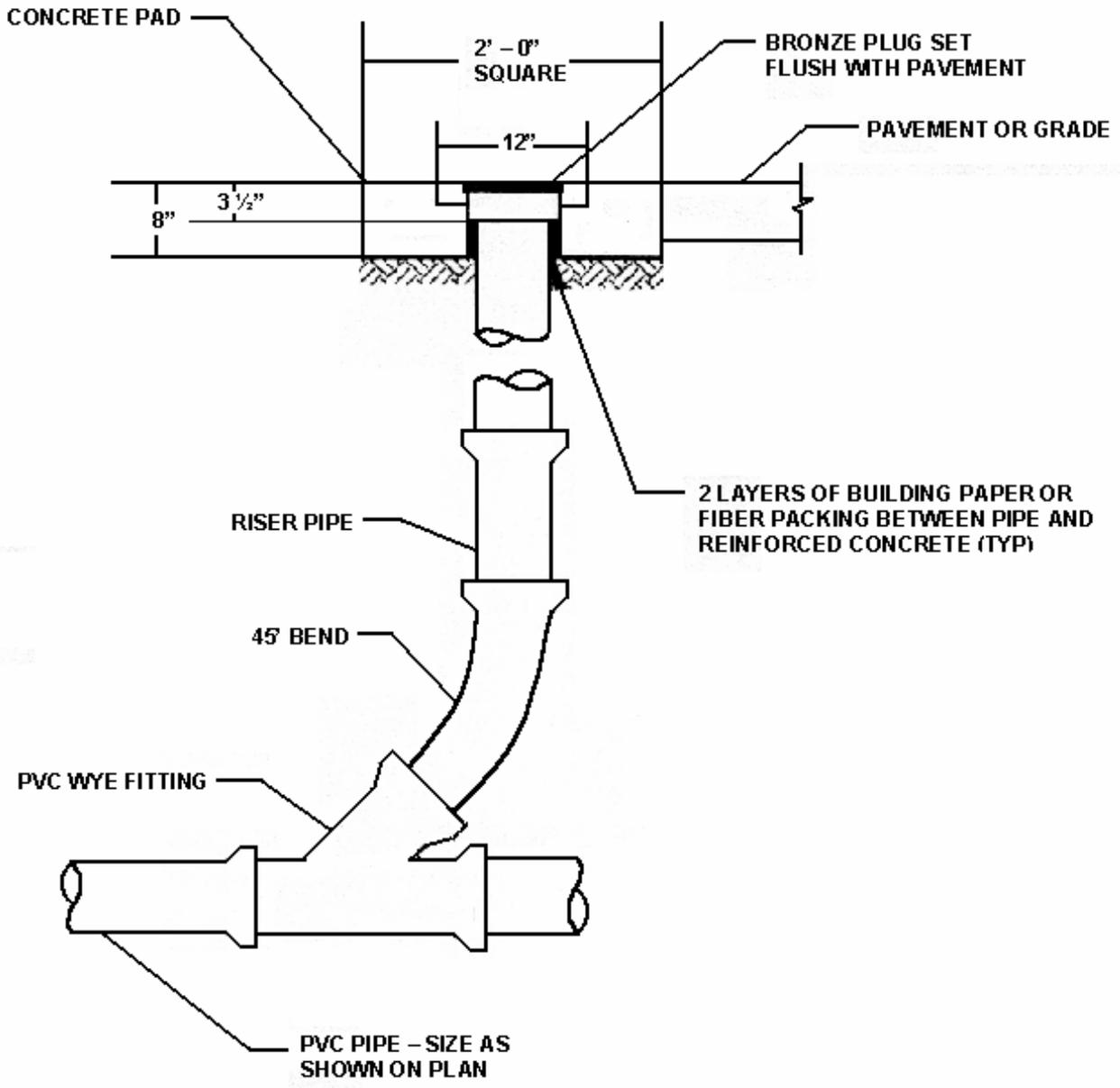
PRECAST DROP MANHOLE

**ANTRIM TOWNSHIP
SANITARY SEWER CONSTRUCTION SPECIFICATIONS**

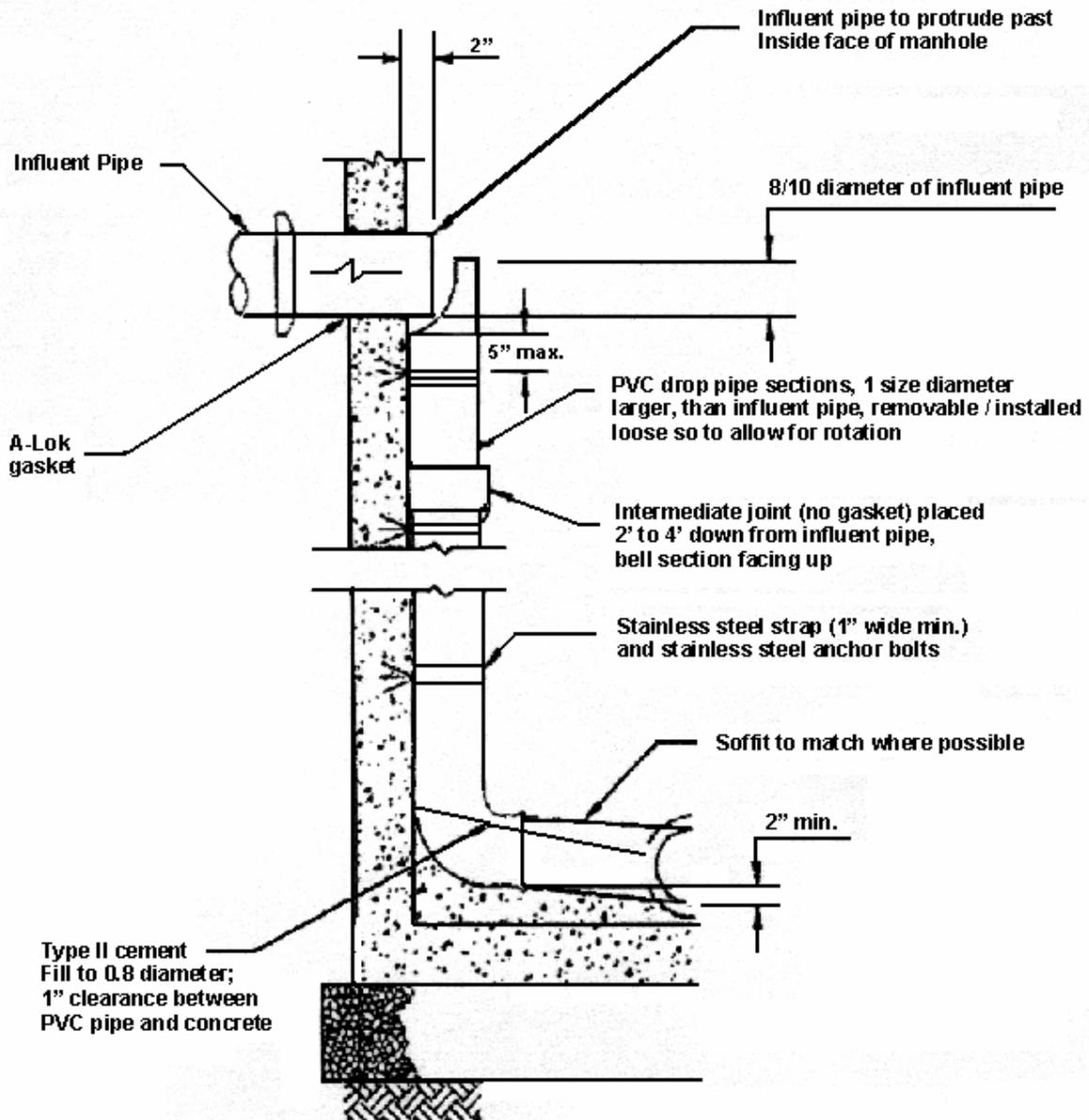


FORCEMAIN IN-LINE CLEANOUT

**ANTRIM TOWNSHIP
SANITARY SEWER CONSTRUCTION SPECIFICATIONS**



GRAVITY SEWER IN-LINE CLEANOUT



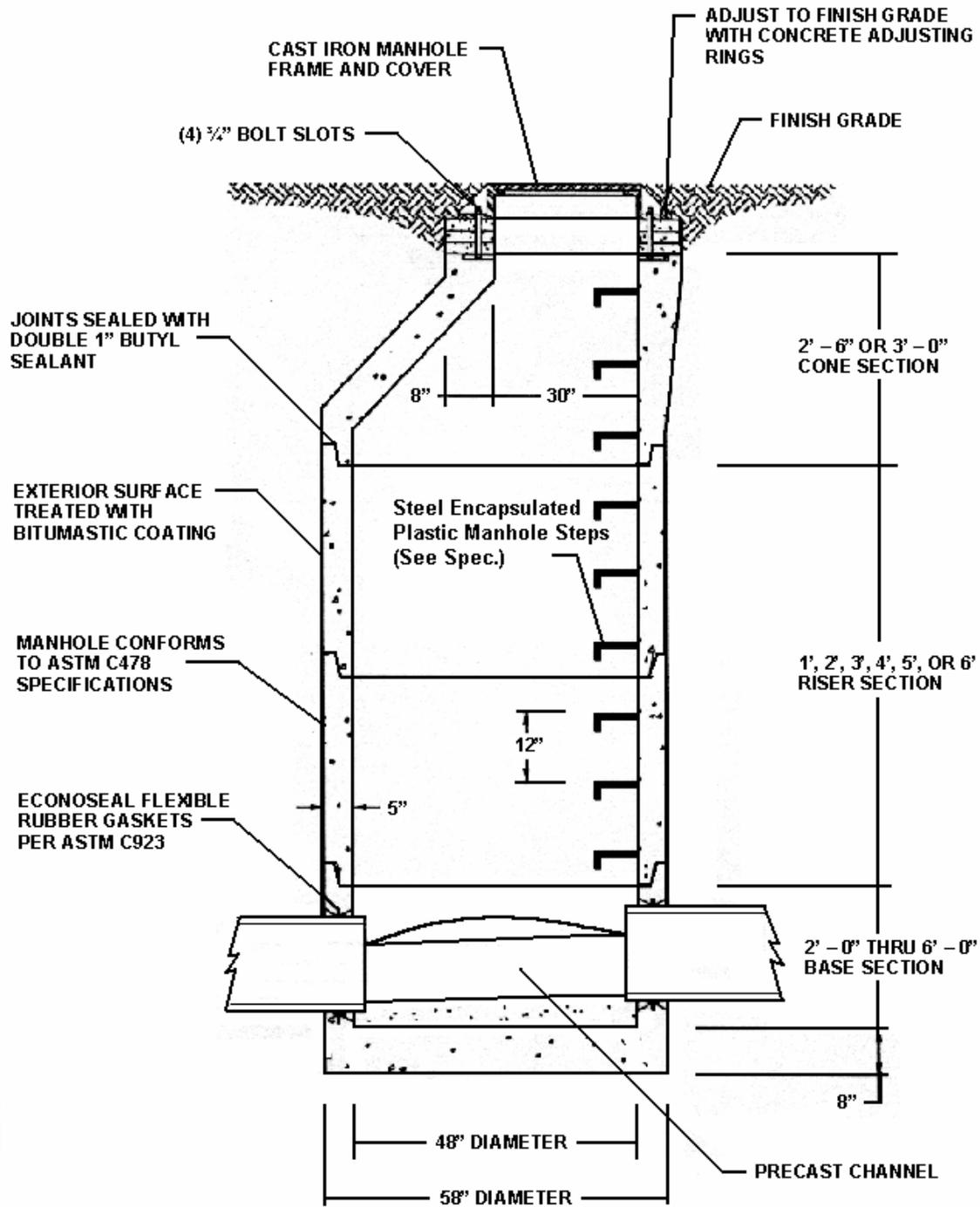
Notes:

1. 72" diameter manhole required when one (1) 8" inside drop or larger are incorporated.

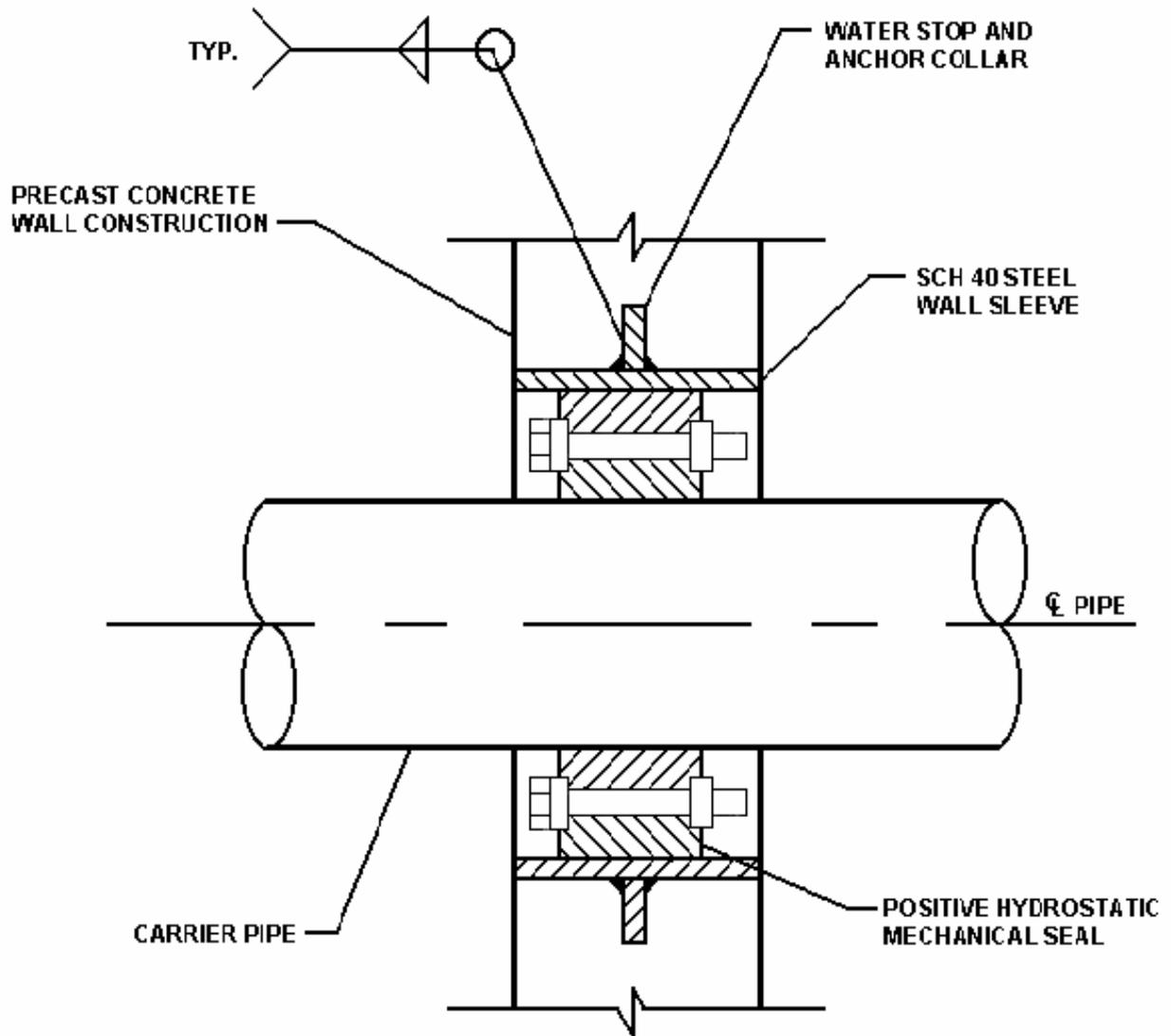
INSIDE DROP MANHOLE

(FOR EXISTING MANHOLES ONLY)

**ANTRIM TOWNSHIP
SANITARY SEWER CONSTRUCTION SPECIFICATIONS**

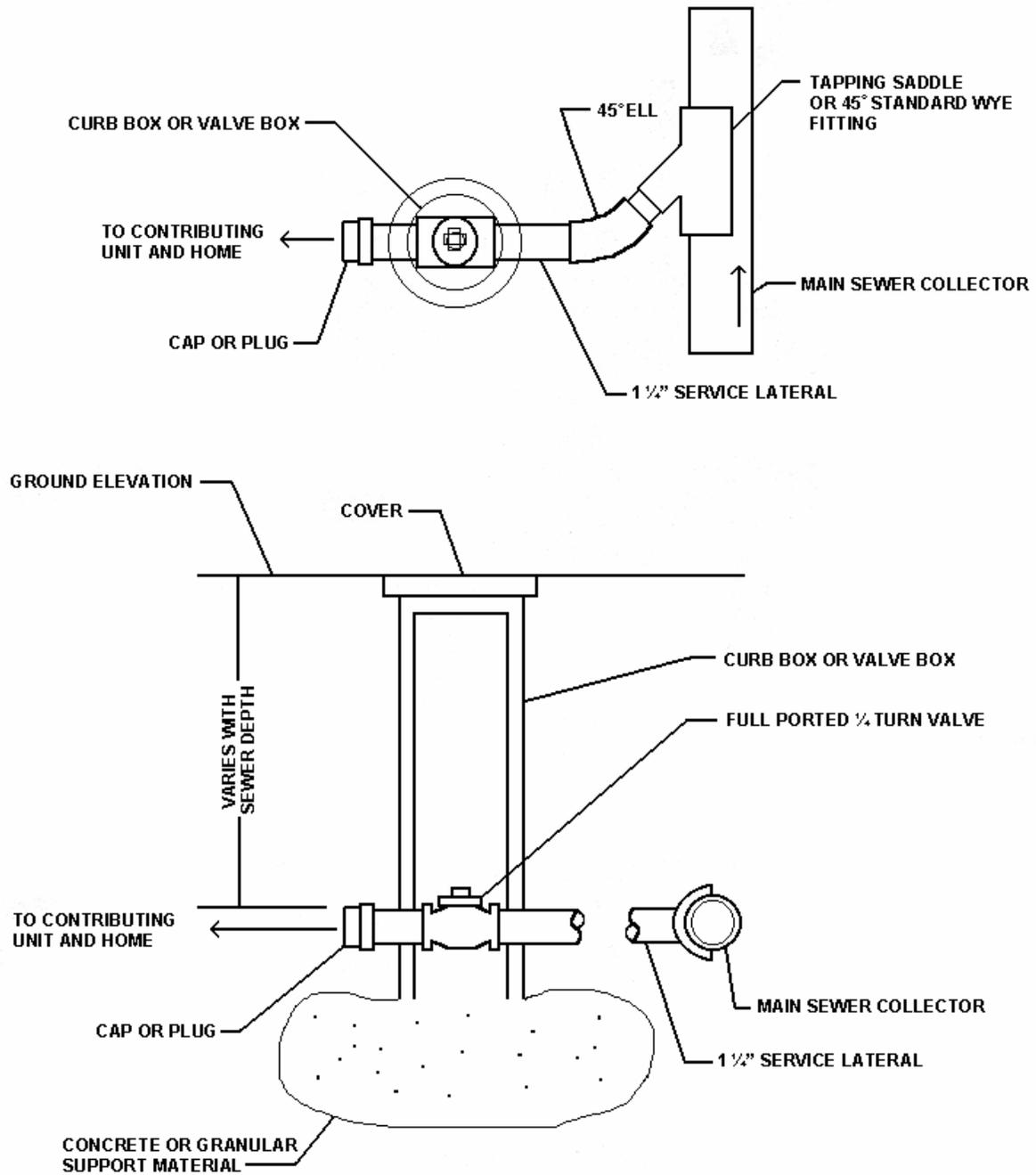


TYPICAL / INSPECTION MANHOLE



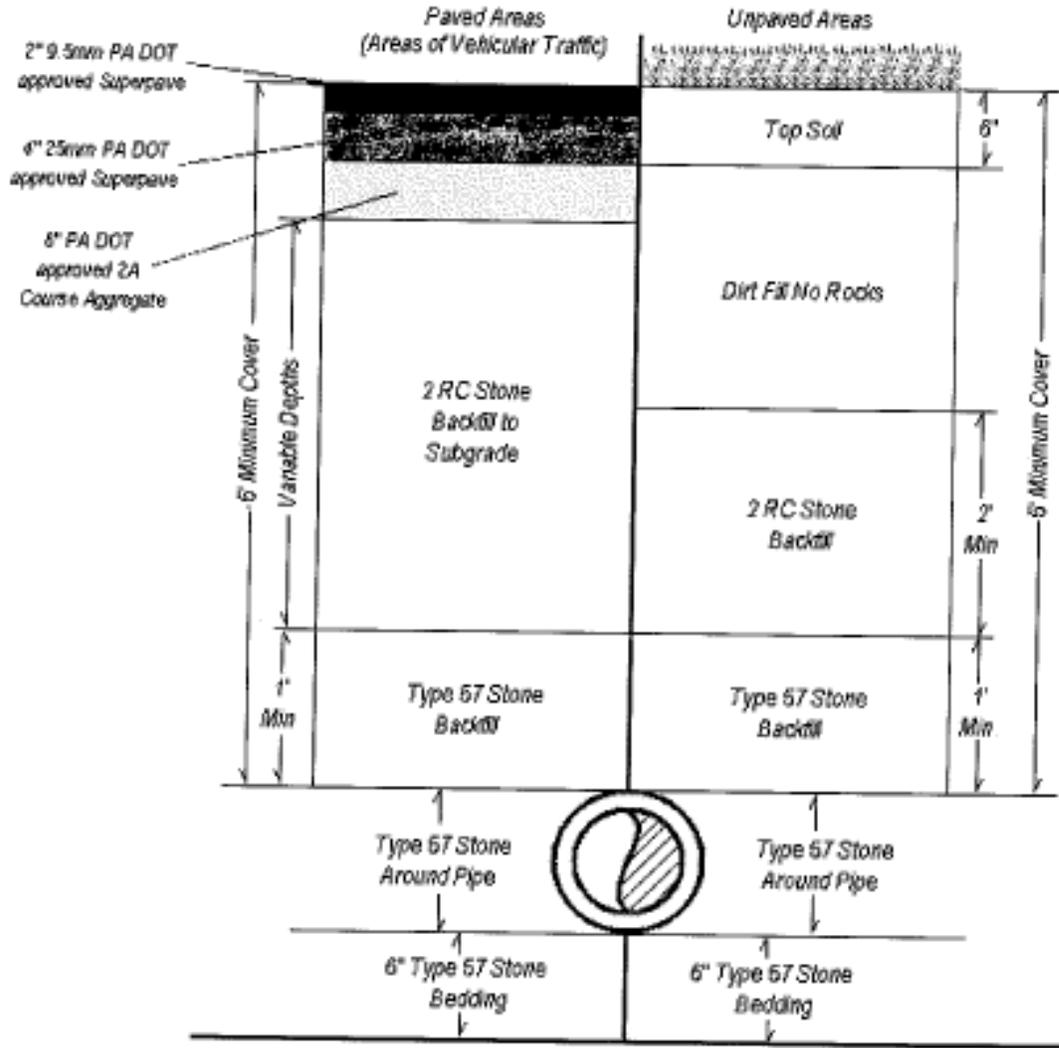
PIPE WALL PENETRATION

**ANTRIM TOWNSHIP
SANITARY SEWER CONSTRUCTION SPECIFICATIONS**



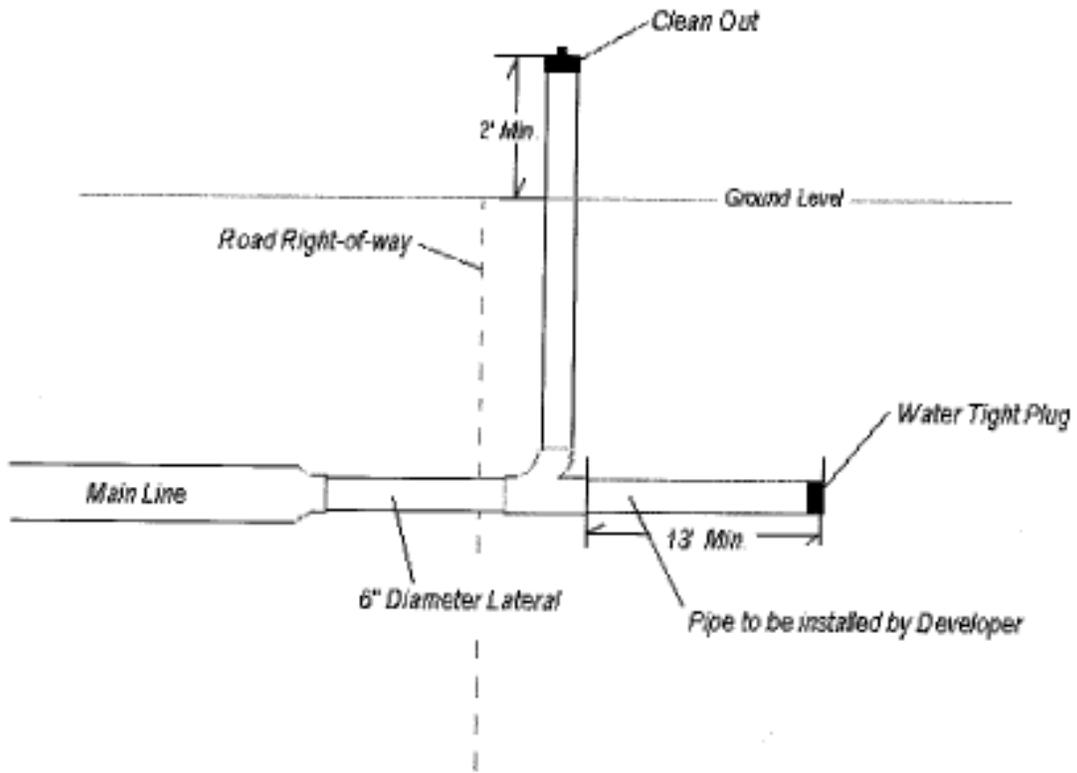
PRESSURE SERVICE LINE CONNECTION

**ANTRIM TOWNSHIP
SANITARY SEWER CONSTRUCTION SPECIFICATIONS**



Antrim Township Road Construction Specifications shall be followed when constructing a road overlap of any sewerline

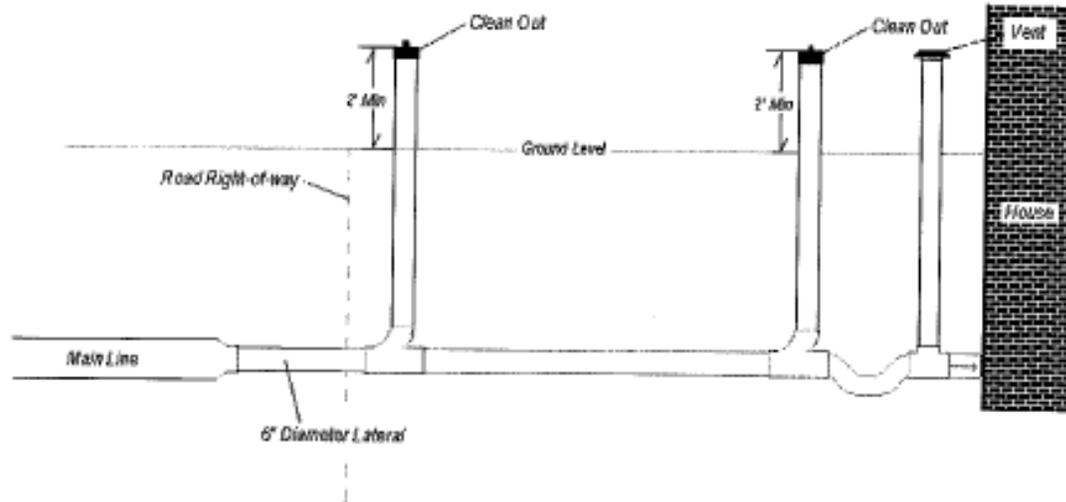
BACKFILL



For Bedding and Backfill requirements please refer to backfill detail

MAINLINE CONSTRUCTION WITH SERVICE LATERAL

**ANTRIM TOWNSHIP
SANITARY SEWER CONSTRUCTION SPECIFICATIONS**



For Bedding and Backfill requirements please refer to backfill detail

NOTES:

1. No rocks within six inches (6") of the pipe.
2. Line must be air or water tested, and witnessed by the ATMA.²
3. Cleanout must be established at every eighty foot (80') interval of line.
4. Any line exceeding eighty feet (80') in length, shall have an additional cleanout in the middle of the line, and cleanouts shall be equally spaced.²
5. The two foot (2') stone cover shall not be placed until after inspection by the ATMA, and only Type 57 stone shall be used for backfill.²
6. For backfill see detail
7. The entire pipe shall be laid on six inches (6") of Type #57 stone bedding.
8. The Township requires a minimum of four feet (4') of cover over the entire length of the pipe.
9. After right-of-way line lateral may reduce to 4" for residential use only and shall have a minimum 1/4" per foot drop.
10. Non-residential shall be 6" minimum laterals and all 6" laterals shall have a minimum 1/8" per foot drop residential or nonresidential.
11. At least **twenty-four (24) hour's notice** is required at the time of such connection and inspection are to be done.

HOUSE SERVICE CONNECTION (LATERAL)