NOTES:
1. Lay pipe thru bottom of manholes. After concrete in base has set, remove portion of pipe indicated with dashed lines.
2. Install Ram-Neck joint tape or equal at all joints.
3. Mortar all joints with a smooth finish.

CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL
SANTARY SEWER MANHOLE
FOR 36" AND SMALLER DIAMETER PIPES
6" MIN. CONCRETE ENCASEMENT PER STANDARD PROVISIONS, SECTION 31

FLEXIBLE COUPLING OR PVC REPAIR COUPLING WHEN REQUIRED BY CITY

NEW PIPE

(2) NO. 4 REBAR AROUND PIPE

NO. 4 DOWELS AT 12" O.C.

2" MINIMUM THICK HYDRAULIC CEMENTITIOUS NON-SHRINK GROUT

AREA OF MANHOLE WALL TO BE REMOVED FOR INSERTION OF NEW PIPE

RECHANNEL BOTTOM AS REQUIRED TO FORM A SMOOTH BASE

FERNCO ADAPTER

2" MINIMUM THICK HYDRAULIC CEMENTITIOUS NON-SHRINK GROUT

FERNCO ADAPTER

REBAR

CONC. ENCASEMENT

NOTE:
1. NEW PIPE INVERT SHALL BE FLUSHED WITH BASE OF MANHOLE.
2. MAKE SMOOTH GROUT FINISH AROUND PIPE END AND INTERIOR WALL. GROUT END OF DOWELS THAT PENETRATE MANHOLE INTERIOR.
TYPICAL CURVED MANHOLE

TYPICAL MANHOLE WITH 2 BRANCHES

NOTE:
The top half of the pipe shall be removed to the contour of the inside of manhole & the broken edges shall be plastered smooth with cement grout typical for all manhole as specified.

CHANNELIZE IN DIRECTION OF FLOW (DO NOT INTRUDE MORE THAN 20% OF PIPE DIAMETER) (TYP)

TYPICAL MANHOLE WITH 1 BRANCH

TYPICAL STRAIGHT THROUGH MANHOLE

CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

SANITARY SEWER
MANHOLE SECTIONS
FOR MANHOLES IN PUBLIC RIGHT-OF-WAY
OR PUBLIC EASEMENT:

CITY OF MOUNTAIN VIEW
SANITARY SEWER

OR
FOR MANHOLES IN OTHER LOCATIONS:
SANITARY SEWER

PLAN - FRAME & COVER

MACHINED SURFACES

SECTION - FRAME & COVER

NOTES:
1. WHEN THERE IS A NEED TO RAISE MANHOLE COVERS TO MEET NEW GRADE,
ONLY ONE ADDITIONAL MANHOLE RING MAY BE ADDED.
2. FRAME AND COVER SHALL BE PHOENIX IRON WORKS #P-1090 OR APPROVED EQUAL.
NOTES:

1. PVC (SDR 26), HDPE (SDR17), OR APPROVED EQUAL.

2. STAMP "S" IN CURB FACE TO SHOW LOCATION OF LATERAL.
   IN LOCATIONS WHERE THE CURB CAN NOT BE STAMPED, A 2" X 2" X 3' REDWOOD STAKE
   SHALL BE SET 6" ABOVE GROUND IF PROJECTION IS NOT DANGEROUS OR OBJECTIONABLE.

3. MINIMUM SLOPE OF LATERAL SHALL BE 1/4" PER 12" OR 2%.

SEE DETAIL C-6 FOR CLEAN-OUT DETAIL

MINIMUM COVER - 4' BELOW BACK OF SIDEWALK

1/8 BENDS AS REQUIRED

4' MINIMUM COVER (EXCEPTIONS TO BE APPROVED BY THE CITY)

DEEP SEWER RISER

DEEP SEWER RISER SHALL BE CONSTRUCTED WHEN DEPTH OR SEWER FLOW LINE EXCEEDS 10' BELOW CROWN OF STREET.

CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

SEWER LATERAL AND
DEEP SEWER RISER

FILE NO. C-5
DETAIL A:
NEW LATERAL INTO EXIST. SEWER MAIN

DETAIL B:
NEW LATERAL INTO EXIST. SEWER MAIN

DETAIL C:
NEW HDPE LATERAL INTO HDPE SEWER MAIN

NOTES:
1. ONLY NEW HDPE LATERAL TO HDPE MAIN IS FUSED.
2. USE TAP TITE CONNECTIONS FOR NEW \(<8"\) LATERALS TO EXIST. MAIN.
3. WYE CONNECTION CAN BE USED FOR EXIST SEWER MAIN \(<15"\) OR UPON ENGINEERS APPROVAL.
NOTES:

1. ALL NEW PIPING SHALL BE PVC (SDR 26), HDPE (SDR 17), OR APPROVED EQUAL UNLESS OTHERWISE NOTED. PIPE TO BE SAME I.D. AND MATERIAL AS LATERAL.

2. WHERE THERE ARE NO FRONTAGE IMPROVEMENTS, INSTALL CLEAN-OUT AT PROPERTY LINE.

3. ALL CLEAN-OUT BOXES SHALL BE CHRISTY CONCRETE PRODUCTS MANUFACTURED BY OLDCASTLE PRECAST, INC. WITH THE FOLLOWING MODEL NUMBERS:

<table>
<thead>
<tr>
<th>4&quot; RISER</th>
<th>6&quot; RISER</th>
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<tbody>
<tr>
<td>NON-TRAFFIC</td>
<td>TRAFFIC</td>
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<tr>
<td>BOX</td>
<td>F08</td>
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<tr>
<td>LID</td>
<td>F08C</td>
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4. LIDS SHALL BE MARKED "SEWER".

5. STAMP OR GRIND FACE OF CURB WITH "S" WHERE LATERAL PASSES UNDER CURB, IF NOT PRESENT.

6. PLUG END AT PROPERTY LINE IF THERE IS NO ON-SITE LATERAL.

7. 1/8 BEND MAY BE PART OF 45° WYE IF APPROVED BY CITY.
NOTES:

1. ALL NEW PIPING SHALL BE PVC (SDR 35), HDPE (SDR 17), OR APPROVED EQUAL UNLESS OTHERWISE NOTED. PIPE TO BE SAME I.D. AND MATERIAL AS LATERAL. CLEAN-OUT SIZE SHALL MATCH DOWN STREAM LATERAL.

2. WHERE THERE ARE NO FRONTAGE IMPROVEMENTS, INSTALL CLEAN-OUT AT PROPERTY LINE.

3. ALL CLEAN-OUT BOXES SHALL BE CHRISTY CONCRETE PRODUCTS MANUFACTURED BY OLDCASTLE PRECAST, INC. WITH THE FOLLOWING MODEL NUMBERS:

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4. LIDS SHALL BE MARKED "SEWER".

5. STAMP OR GRIND FACE OF CURB WITH "S" WHERE LATERAL PASSES UNDER CURB, IF NOT PRESENT.

6. 1/8 BEND MAY BE PART OF 45" WYE IF APPROVED BY CITY.
SEWER MAIN

NOTES:

1. DETAIL APPLIES TO TOWNHOUSE TYPE CONDOMINIUMS AND COMMON GREEN DEVELOPMENTS WITH PRIVATE SEWERS.

2. ALL CLEAN-OUT BOXES SHALL BE CHRISTY CONCRETE PRODUCTS MANUFACTURED BY OLDCASTLE PRECAST, INC. WITH THE FOLLOWING MODEL NUMBERS:

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3. LIDS SHALL BE MARKED "SEWER"

4. STAMP OR GRIND FACE OR TOP OF CURB WITH "S" WHERE LATERAL PASSES UNDER CURB, IF NOT PRESENT.

CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

SEWER SERVICE CONNECTION
FOR COMMON GREEN DEVELOPMENTS
4" AND 6" LATERALS

FILE NO. C-9