1. THIS DETAIL SHOWS THE TYPICAL FINAL WATER METER CONFIGURATION AFTER INSTALLATION OF A PROPOSED WATER METER, RECONNECTION OF AN EXISTING WATER METER, OR RELOCATION OF A WATER METER.

NOTES:
NOTES:

1. THIS DETAIL SHOWS THE TYPICAL FINAL FIRE HYDRANT
   CONFIGURATION AFTER INSTALLATION OF A PROPOSED FIRE HYDRANT,
   RELOCATION OF AN EXISTING FIRE HYDRANT, OR RELOCATION OF
   A FIRE HYDRANT.

2. KEEP DRAIN PORTS FREE FROM OBSTRUCTION.

3. RESTRRAIN ALL PIPE JOINTS AND FITTINGS. ACCEPTABLE TYPES OF
   RESTRAINT INCLUDE RESTRAINING GLANDS; RESTRAINED, PUSH-ON
   JOINTS; AND 3/4" BITUMINOUS COATED, ALL-THREAD RESTRAINING
   RODS. THRUST BLOCKS ARE NOT AN ACCEPTABLE TYPE OF
   RESTRAINT.

4. FOR RELOCATED OR RECONNETECED FIRE HYDRANTS, VERIFY THE VALVE
   IS RESTRAINED TO THE MAIN. PROVIDE APPROPRIATE RESTRAINT.

5. HYDRANT LOCATION APPLIES TO PROPOSED AND RELOCATED FIRE
   HYDRANTS.

6. LOCATE FIRE HYDRANT WITH 3' HORIZONTAL CLEARANCE FROM
   ABOVE GROUND OBJECTS.

7. PROVIDE A MINIMUM OF 3' COVER OVER ALL SECTIONS OF
   HORIZONTAL PIPE. USE FITTINGS AS NECESSARY.

8. TAPPING SLEEVES MAY BE USED ON EXISTING MAINS IN LIEU OF
   DI TEES.

9. LOCATE FIRE HYDRANT OUTSIDE OF THE VEHICLE RECOVERY AREA,
   ADJACENT TO THE R/W LINE, OR IN A PROTECTED AREA.
Tee Wye Connection

Optional

Section AA

Inlet

Tapping Saddle

Optional

Single wide stainless steel strap

Tapping saddle with strap and alignment flange.

Unpaved Area Cap

May be used in unpaved area

Paved Area Cap

May be used in unpaved area

Notes:

1. This detail shows the typical final configuration of a proposed sewer clean out, a relocated sewer clean out, or a reconnected sewer clean out.

2. Use 45 degree vertical bend at inlet if grade allows.

Inlet with 45 degree bend

Optional

Extended stainless steel hose clamps

EPDM rubber cap for maximum allows.

Use 45 degree vertical bend at inlet if grade allows.
SECTION X-X

NOTES:
1. THIS DETAIL SHOWS THE CONFIGURATION OF AN OUTSIDE DROP WITH A PRECAST CONCRETE MANHOLE.
2. INSERT THREE #6 DOWELS INTO THE BASE OF THE PRECAST MANHOLE BEFORE POURING CAST IN PLACE TONGUE. FACTORY DRILL OR CAST THE DOWEL HOLES IN THE BASE. EPOXY THE DOWELS INTO PLACE. EMBED DOWELS A MINIMUM OF 6" INTO THE MANHOLE BASE AND THE TONGUE. CENTER DOWELS VERTICALLY AND HORIZONTALLY. PLACE DOWELS 12" ON CENTER.
3. BLOCK WALL TO SPRING LINE OF HORIZONTAL PIPE.
4. USE FOR DROP INLET PIPES UP TO 12".
5. USE PC 350 DUCTILE IRON PIPE and FITTINGS FOR THE DROP ASSEMBLY. THE DROP ASSEMBLY SHALL BE THE SAME PIPE DIAMETER AS THE INLET PIPE.
GENERAL NOTES:
1. THIS STANDARD DETAIL DESCRIBES THE USE OF HORSESHOE TYPE and CORED MANHOLES WITH A CAST-IN-PLACE BOTTOM.
2. USE HORSESHOE TYPE MANHOLES ONLY WITH THE PERMISSION OF THE ENGINEER.
3. FOR HORSESHOE TYPE MANHOLES, WRAP THE PIPE WITH BUTYL RUBBER GASKET, AND SEAL WITH NONSHRINKING GROUT.

SECTION Y-Y
CORED PIPE TYPE

SECTION X-X
HORSESHOE TYPE
REINFORCED CONCRETE FOOTING FOR 5' PRECAST MANHOLE OR 4' PRECAST MANHOLE

PLACE REINFORCING STEEL SO THAT STEEL IS PLACED A MIN. OF 2" AND A MAX. OF 4" FROM THE TOP OF THE SLAB.