

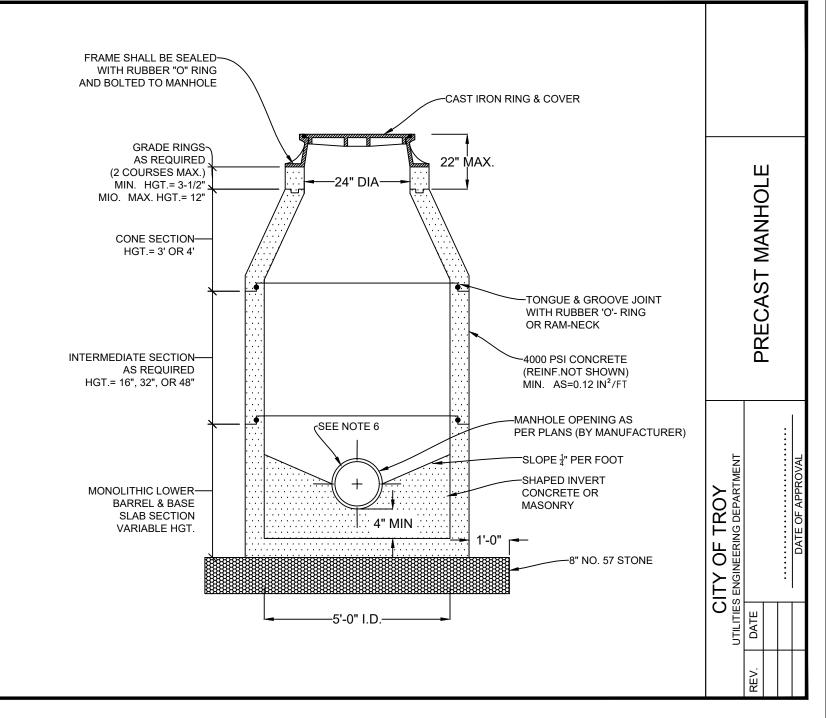
200-03

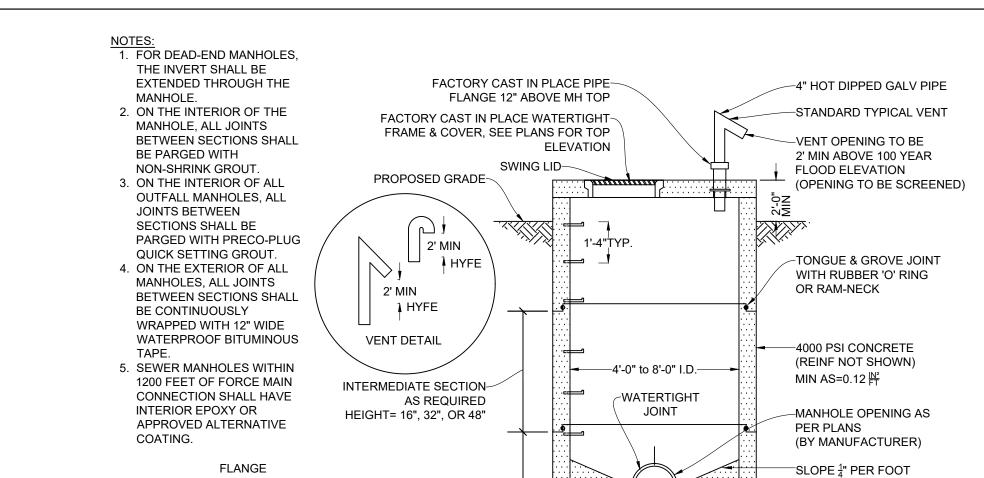
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Engineering. Environmental. Answers.

- 1. FOR DEAD-END MANHOLES, THE INVERT SHALL BE EXTENDED THROUGH THE MANHOLE.
- 2. ON THE INTERIOR OF THE MANHOLE, ALL JOINTS BETWEEN SECTIONS SHALL BE PARGED WITH NON-SHRINK GROUT.
- 3. ON THE INTERIOR OF ALL MANHOLES, ALL JOINTS BETWEEN SECTIONS SHALL BE PARGED WITH PRECO-PLUG QUICK SETTING GROUT.
- 4. ON THE EXTERIOR OF ALL MANHOLES, ALL JOINTS BETWEEN SECTIONS SHALL BE CONTINUOUSLY WRAPPED WITH 12" WIDE WATERPROOF BITUMINOUS TAPE.
- 5. SEWER MANHOLES WITHIN 1200 FEET OF FORCE MAIN CONNECTION SHALL HAVE INTERIOR EPOXY OR APPROVED ALTERNATIVE COATING.
- 6. WATERTIGHT MANHOLE CONNECTION SHALL BE KOR-N-SEAL OR APPROVED EQUAL
- 7. VACUUM TEST TO BE COMPLETED IN ACCORDANCE WITH ASTM C-1244 AND PERFORMED PRIOR TO BACKFILLING





## PRECAST MANHOLE



STAINLESS STEEL BOLTS

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STANDARD DETAILS THE CITY OF TROY UTILITIES

# 200-05

-8" NO. 57 STONE

SHAPED INVERT

**-**1'-0"

CONCRETE OR MASONRY

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GASKET

MONOLITHIC LOWER

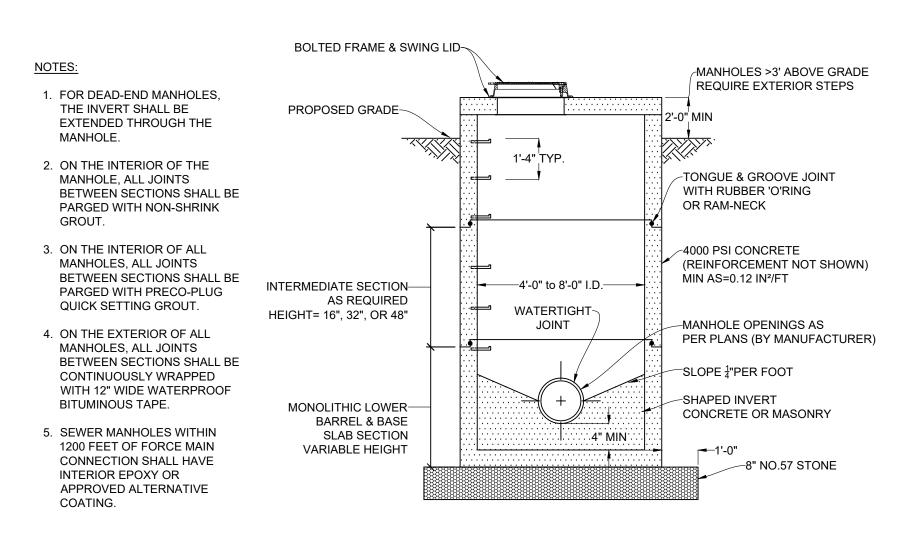
**BARREL & BASE** 

VARIABLE HEIGHT

SLAB SECTION

REV. DATE: November 2015

4" MIN



## PRECAST MANHOLE (OUTFALLS)

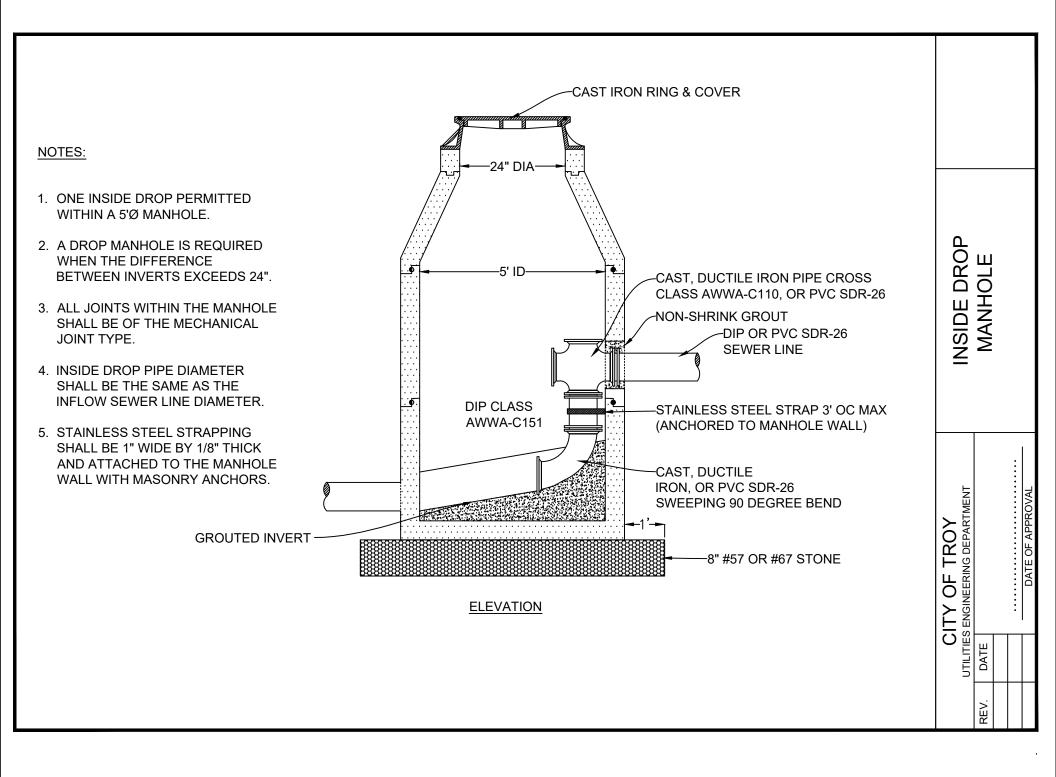


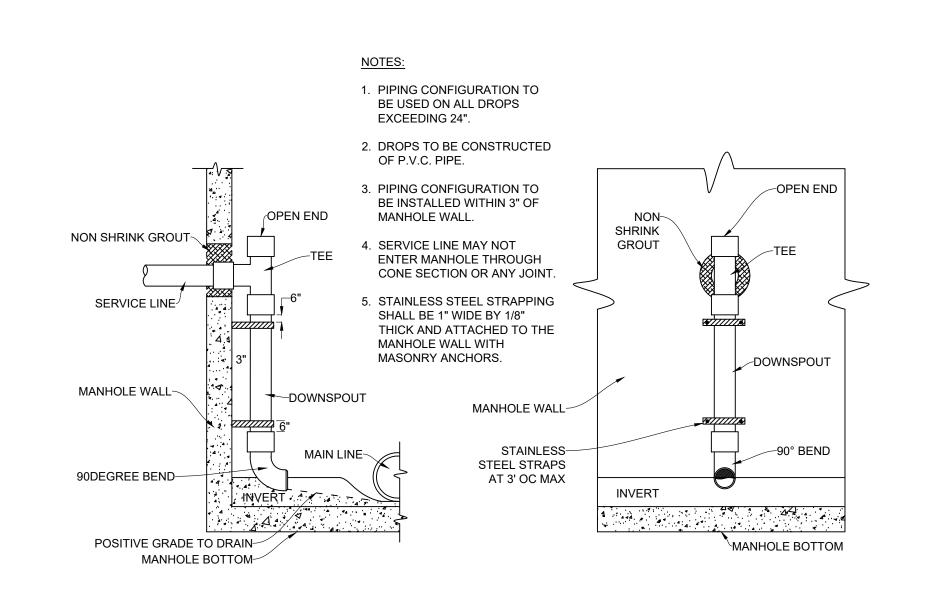
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# 200-06

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## DROP MANHOLE FOR SEWER SERVICE

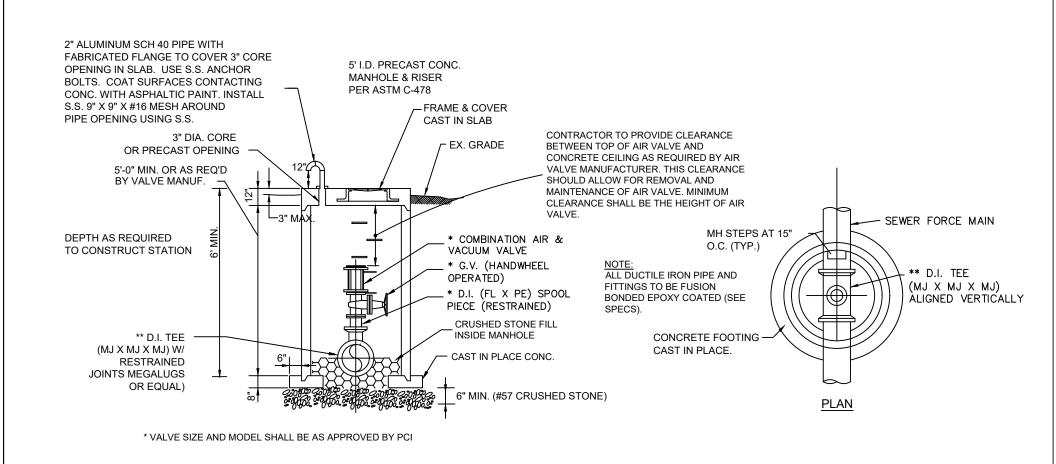


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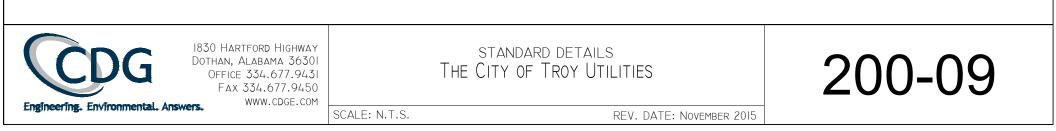
STANDARD DETAILS THE CITY OF TROY UTILITIES

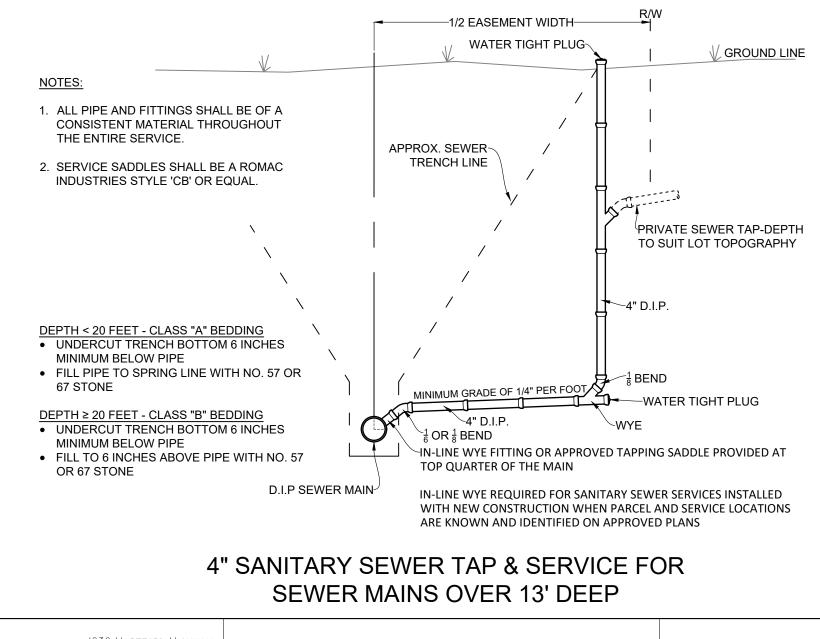
## 200-08

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### **AIR & VACUUM RELEASE VALVE STATION**





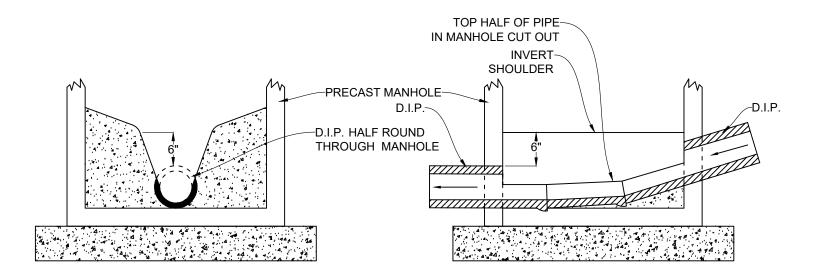


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STANDARD DETAILS THE CITY OF TROY UTILITIES

# 200-10

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- 1. NO HORIZONTAL ALIGNMENT CHANGE CAN BE MADE WITHIN THIS MANHOLE TYPE. USE ON GRADES 10% OR GREATER.
- 2. EACH JOINT OF PIPE BETWEEN HIGH VELOCITY MANHOLE & MANHOLE UPGRADE SHALL HAVE A THRUST COLLAR.

## HIGH VELOCITY MANHOLE INVERT

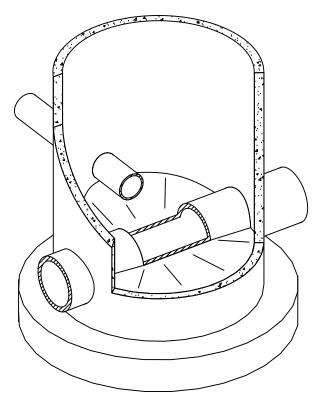


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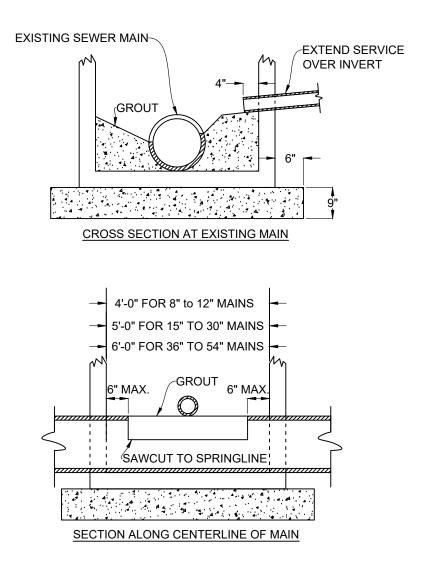
STANDARD DETAILS THE CITY OF TROY UTILITIES

200-11

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- 1. FLOW SHALL BE MAINTAINED DURING CONSTRUCTION.
- 2. THIS DETAIL TO BE USED WHEN A 6" OR LARGER LATERAL NECESSITATES CONSTRUCTION OF A NEW MANHOLE.
- 3. MANHOLE PAD TO REST UPON A MINIMUM 6" COMPACTED #67 STONE BASE.



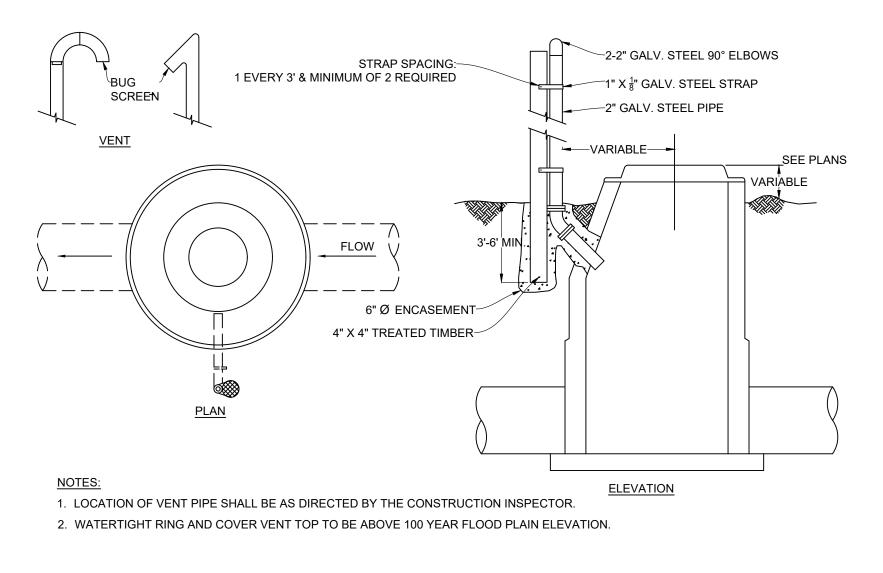
## DOGHOUSE MANHOLE INSTALLATION OVER EXISTING SEWER MAIN



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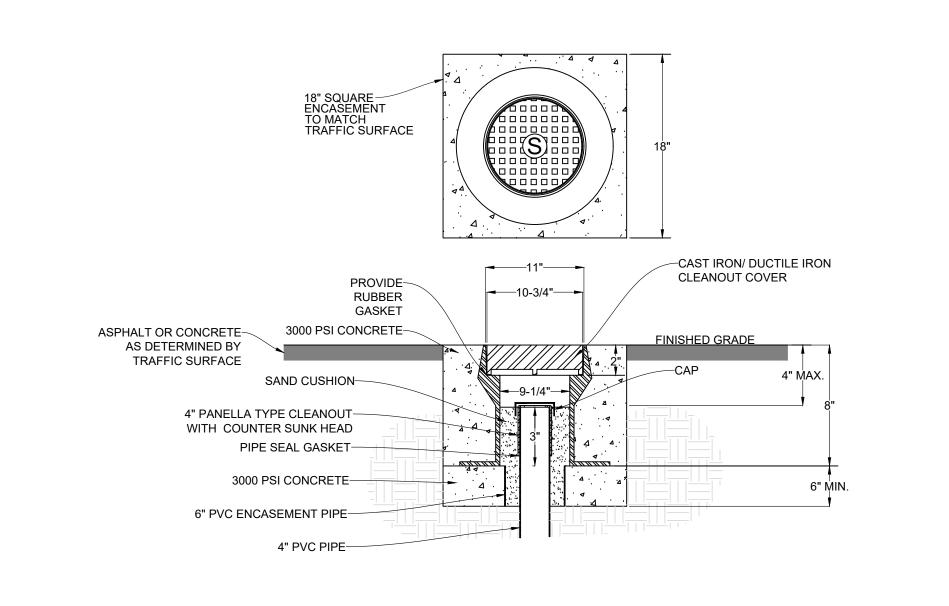
## MANHOLE VENT



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## CLEANOUT COVER FOR VEHICLE TRAFFIC AREAS

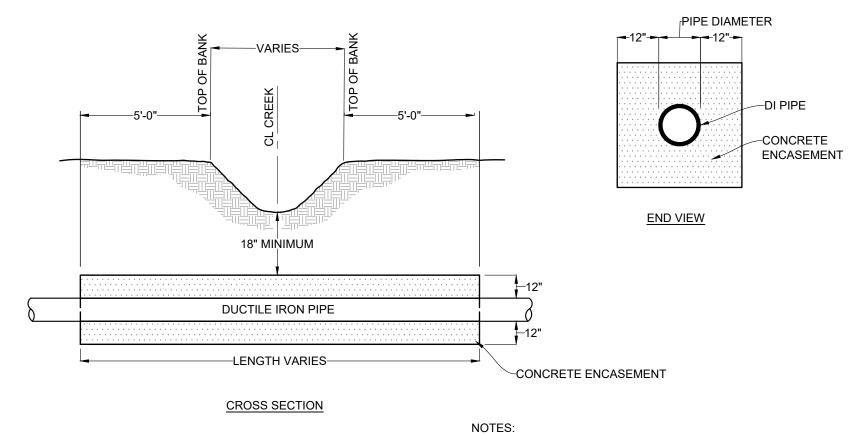


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200-14

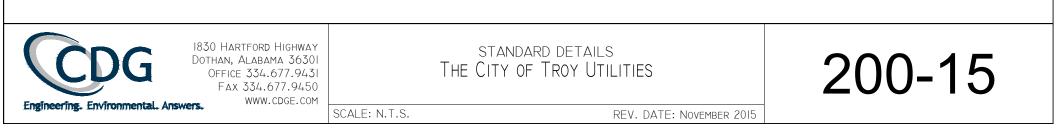
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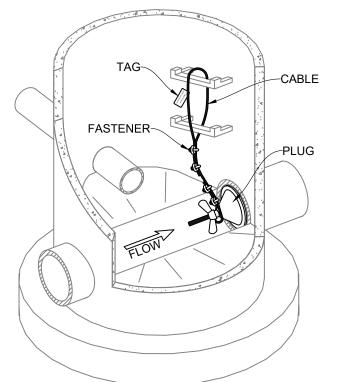


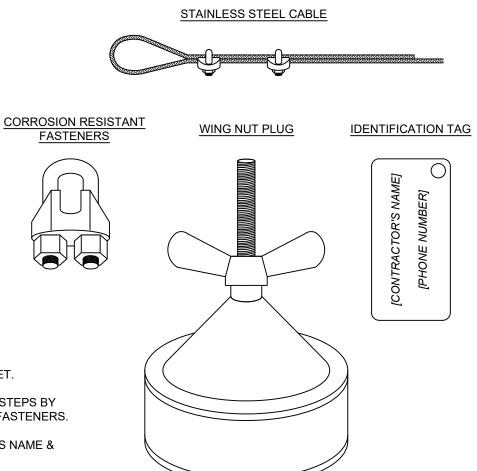
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1. CONCRETE SHALL BE 3000 P.S.I.

## CONCRETE ENCASEMENT FOR STREAM CROSSING







- 1. PLUG SHALL BE INSTALLED ON THE DOWNSTREAM OUTLET.
- 2. PLUG SHALL BE SECURED TO A MINIMUM OF 2 MANHOLE STEPS BY STAINLESS STEEL CABLE WITH CORROSION-RESISTANT FASTENERS.
- 3. PLUG ASSEMBLY SHALL BE TAGGED WITH CONTRACTOR'S NAME & CONTACT NUMBER ON A CORROSION-RESISTANT PLATE.
- 4. PLUGGED MANHOLE SHALL BE MAINTAINED CONTINUALLY TO ALLOW ACCESS TO THE PLUG.

## SANITARY SEWER PLUG INSTALLATION



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