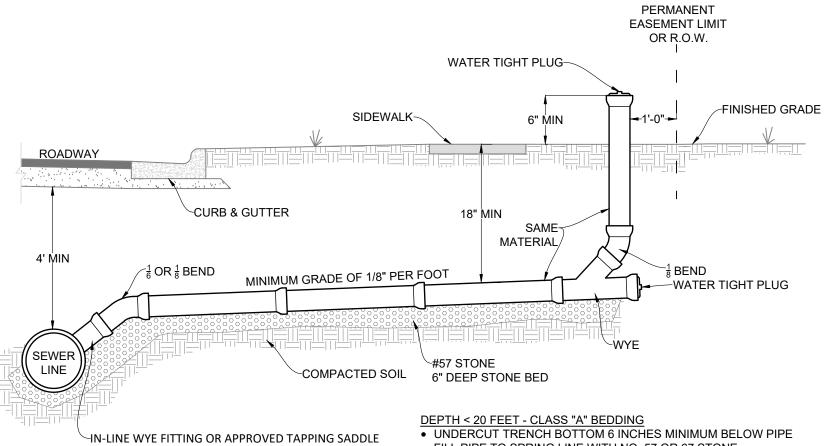
CLASS A BEDDING CLASS B BEDDING REQUIRED FOR INSTALLATION IN TRAFFIC AREAS OPTIONAL INSTALLATION IN NON-TRAFFIC AREAS **SUBGRADE** FINISHED GRADE 3' MIN. COVER - NON-TRAFFIC 4' MIN. COVER - TRAFFIC SEWER BACKFILL -TRENCH D INITIAL LIFT: 12" MAX. NON TRAFFIC AREAS: 12" MAX. LIFTS TRAFFIC AREAS: 6" MAX. LIFTS COMPACTION: 95% MAX. DRY DENSITY (STANDARD PROCTOR) LAST 6" LIFT PRIOR TO SUBGRADE SHALL BE 98% MAX. DRY DENSITY NO. 57 OR 67 STONE CLASS I, II, OR III MATERIAL AS DEFINED IN ASTM D2321 CITY OF TROY UTILITIES ENGINEERING DEPARTMENT TRENCH WIDTH MIN: PIPE OUTSIDE DIA. +8" EACH SIDE MAX: PIPE OUTSIDE DIA. +12" EACH SIDE NOTES: 1. FOR TRENCHES REQUIRING SHORING & BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING & BRACING. 2. INSTALLATIONS THAT EXCEED 12 FEET DEPTH SHALL BE DIP. 3. INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF ASTM D2321 4. PROPOSED SEWER DEPTHS > 20 FEET SHALL BE APPROVED BY THE CITY



PROVIDED AT TOP QUARTER OF THE MAIN

IN-LINE WYE REQUIRED FOR SANITARY SEWER SERVICES INSTALLED WITH NEW CONSTRUCTION WHEN PARCEL AND SERVICE LOCATIONS ARE KNOWN AND IDENTIFIED ON APPROVED PLANS

FILL PIPE TO SPRING LINE WITH NO. 57 OR 67 STONE

DEPTH ≥ 20 FEET - CLASS "B" BEDDING

- UNDERCUT TRENCH BOTTOM 6 INCHES MINIMUM BELOW PIPE
- FILL TO 6 INCHES ABOVE PIPE WITH NO. 57 OR 67 STONE

INSTALLATIONS THAT EXCEED 13 FEET DEPTH SHALL BE DIP

SANITARY SEWER TAP & SERVICE

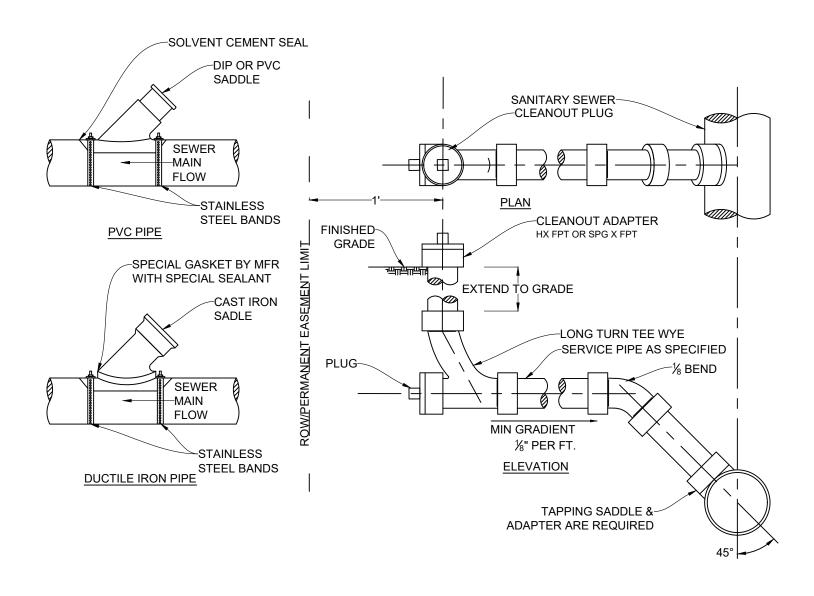


1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS THE CITY OF TROY UTILITIES

200-02

SCALE: N.T.S.



SANITARY SEWER SERVICE CONNECTIONS

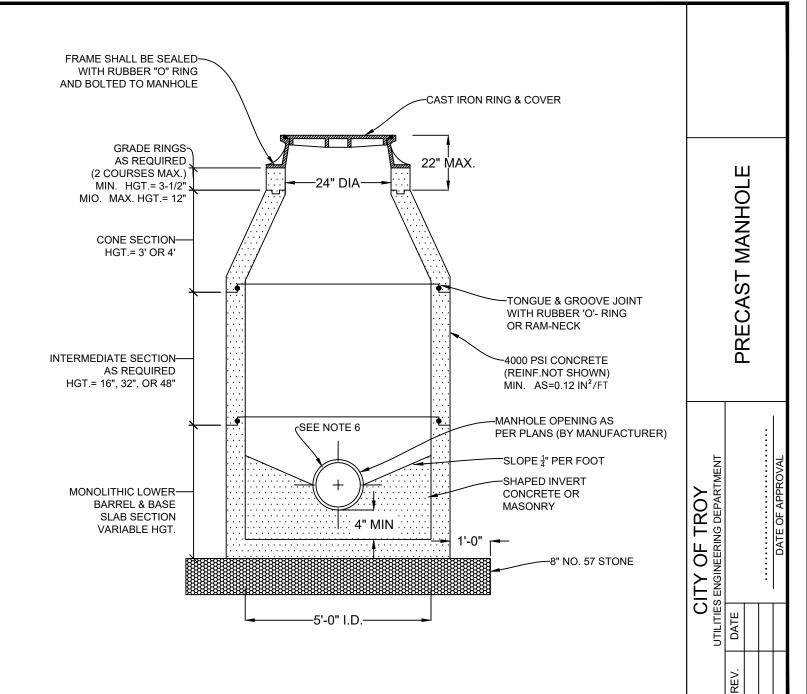


STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-03

SCALE: N.T.S.

- 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

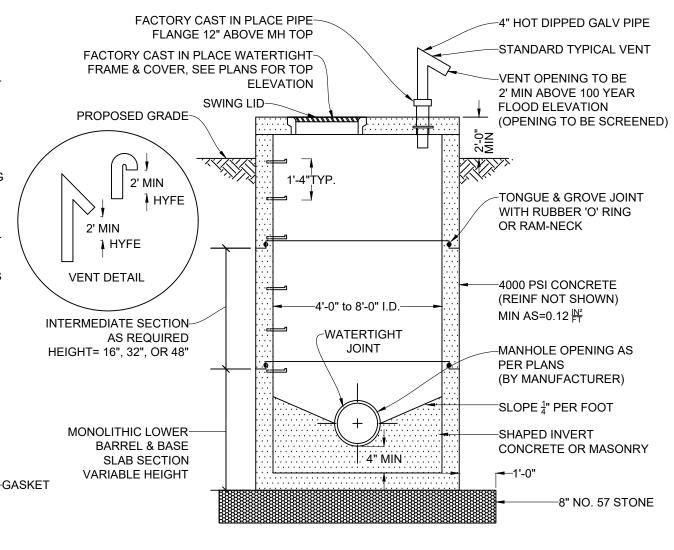




- FOR DEAD-END MANHOLES, THE INVERT SHALL BE EXTENDED THROUGH THE MANHOLE.
- 2. ON THE INTERIOR OF THE MANHOLE, ALL JOINTS BETWEEN SECTIONS SHALL BE PARGED WITH NON-SHRINK GROUT.
- 3. ON THE INTERIOR OF ALL OUTFALL MANHOLES, ALL JOINTS BETWEEN SECTIONS SHALL BE PARGED WITH PRECO-PLUG QUICK SETTING GROUT.
- 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.

STAINLESS STEEL BOLTS

FLANGE



PRECAST MANHOLE



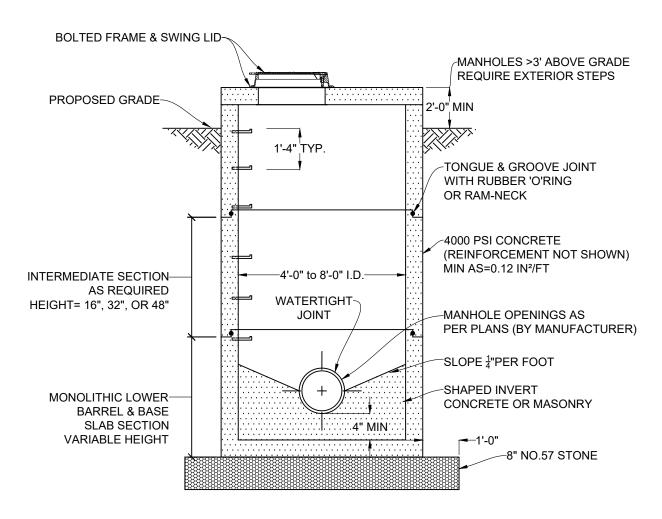
1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-05

SCALE: N.T.S.

- 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.



PRECAST MANHOLE (OUTFALLS)

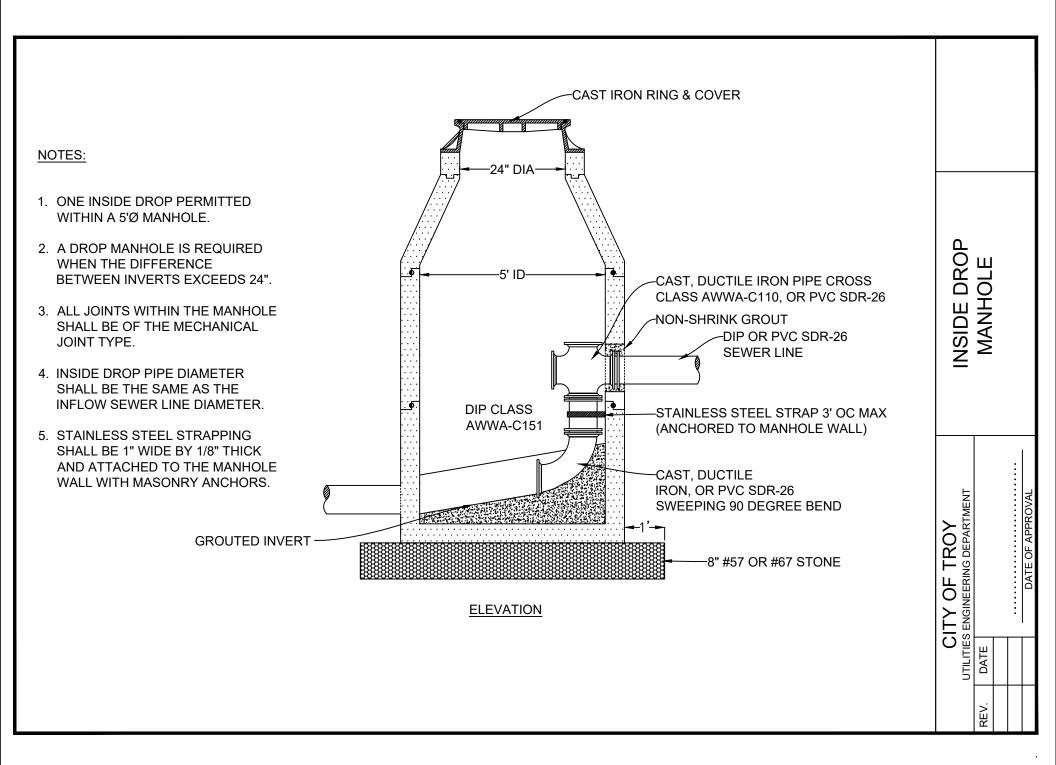


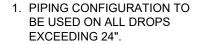
1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

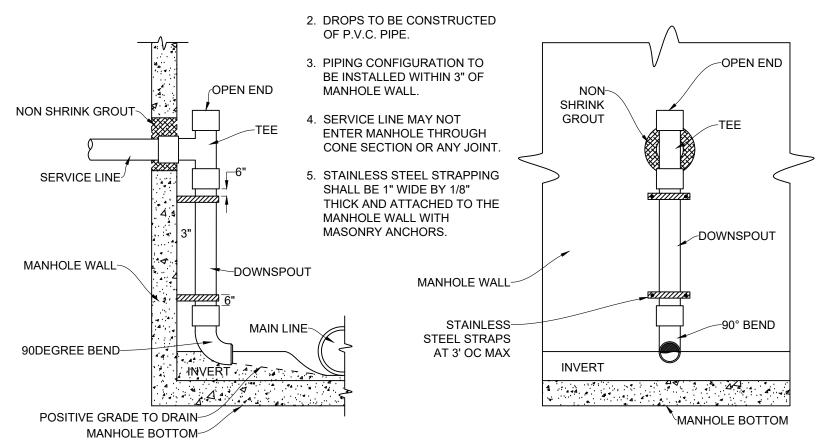
STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-06

SCALE: N.T.S.







DROP MANHOLE FOR SEWER SERVICE

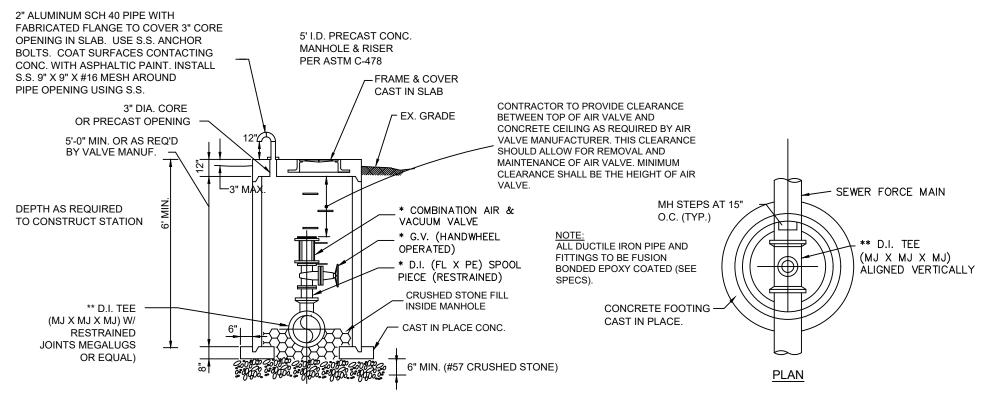


1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-08

SCALE: N.T.S.



* VALVE SIZE AND MODEL SHALL BE AS APPROVED BY PCI

AIR & VACUUM RELEASE VALVE STATION

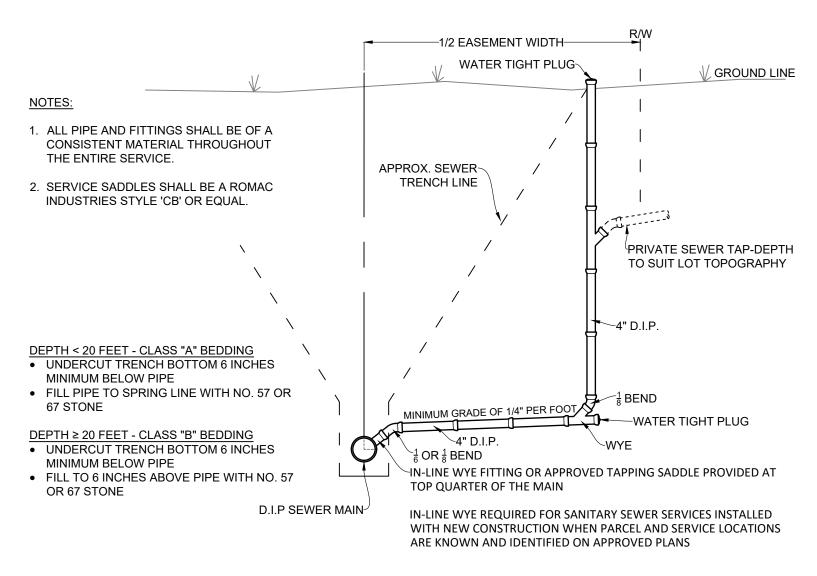


1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-09

SCALE: N.T.S.



4" SANITARY SEWER TAP & SERVICE FOR SEWER MAINS OVER 13' DEEP

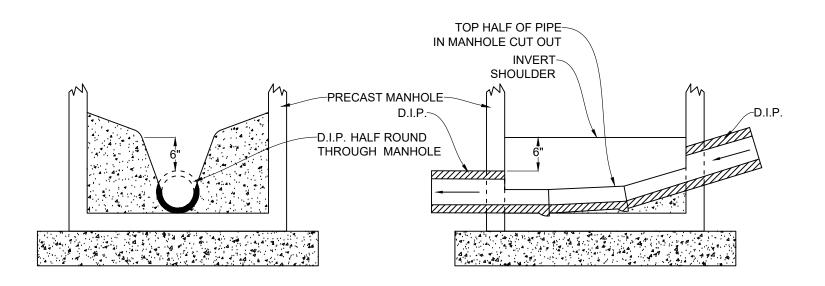


1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-10

SCALE: N.T.S.



- 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

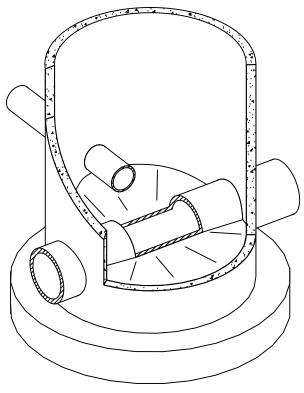


1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

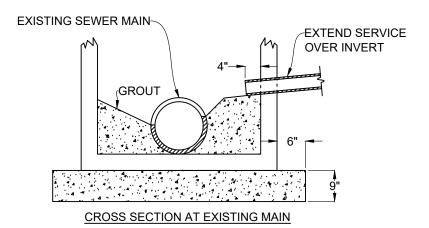
STANDARD DETAILS
THE CITY OF TROY UTILITIES

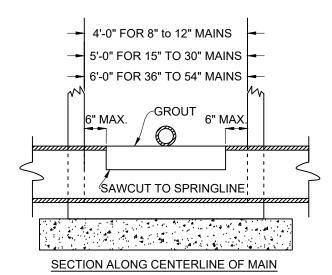
200-11

SCALE: N.T.S.



- 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

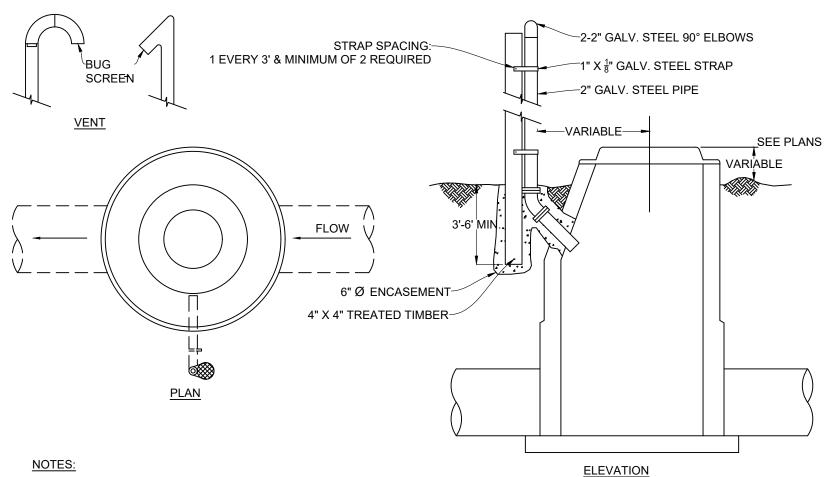
Engineering. Environmental. Answers.

1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-12

SCALE: N.T.S.



- 1. LOCATION OF VENT PIPE SHALL BE AS DIRECTED BY THE CONSTRUCTION INSPECTOR.
- 2. WATERTIGHT RING AND COVER VENT TOP TO BE ABOVE 100 YEAR FLOOD PLAIN ELEVATION.

MANHOLE VENT

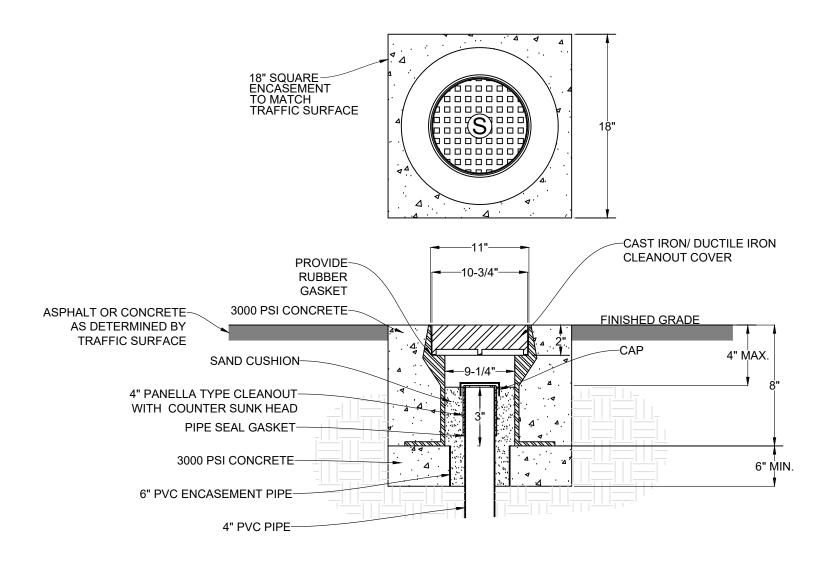


1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-13

SCALE: N.T.S.



CLEANOUT COVER FOR VEHICLE TRAFFIC AREAS

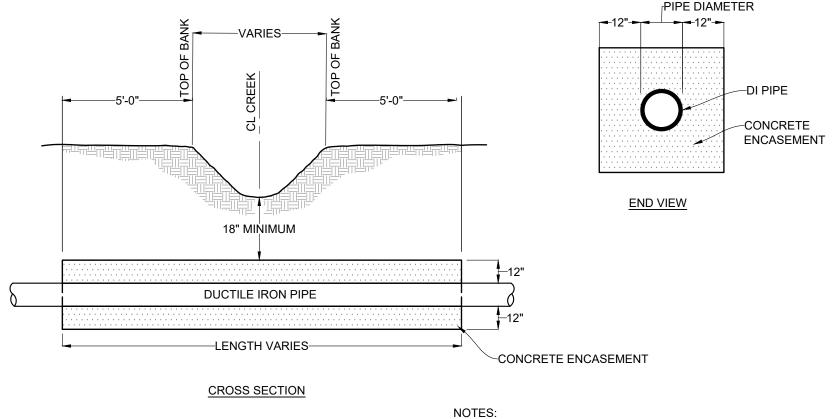


1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-14

SCALE: N.T.S.



<u>0120</u>.

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

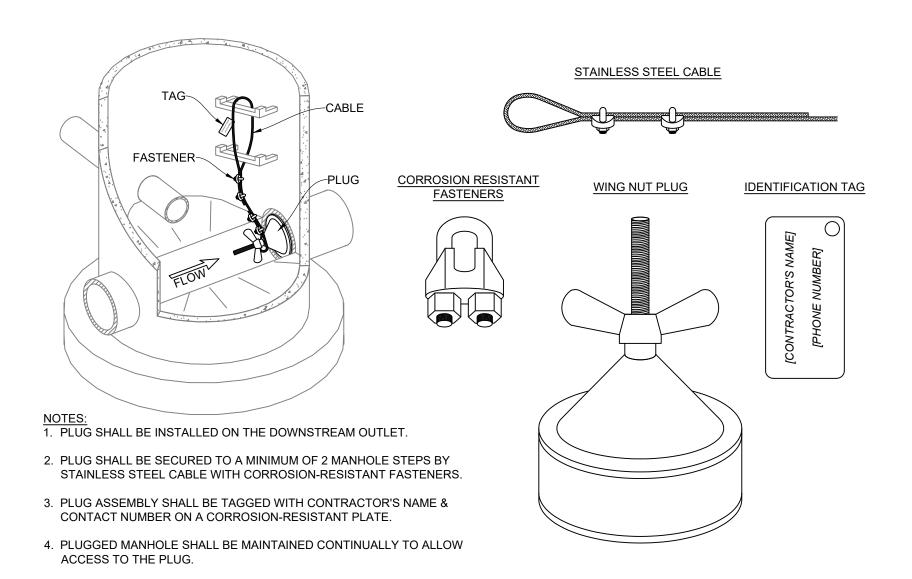
CONCRETE ENCASEMENT FOR STREAM CROSSING



STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-15

SCALE: N.T.S.



SANITARY SEWER PLUG INSTALLATION

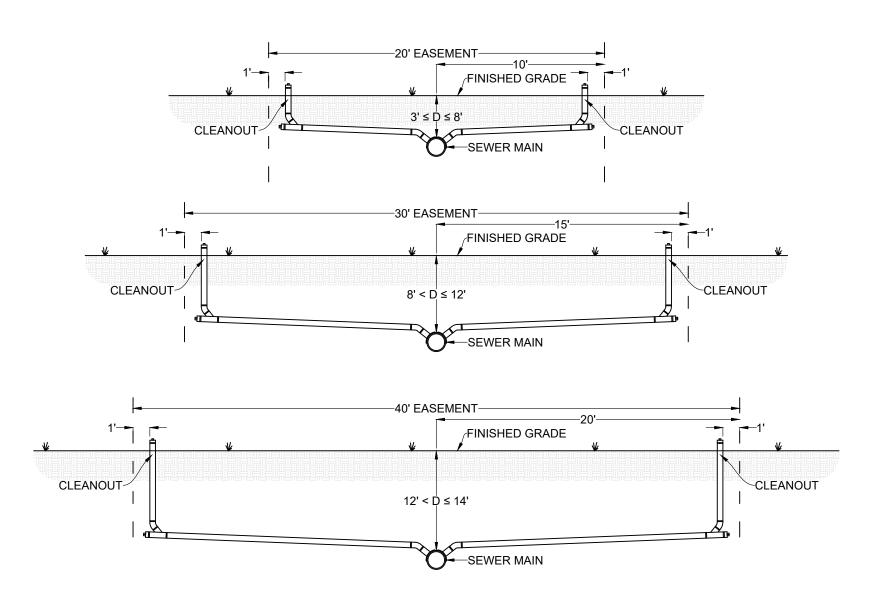


1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-16

SCALE: N.T.S.



SANITARY SEWER EASEMENT

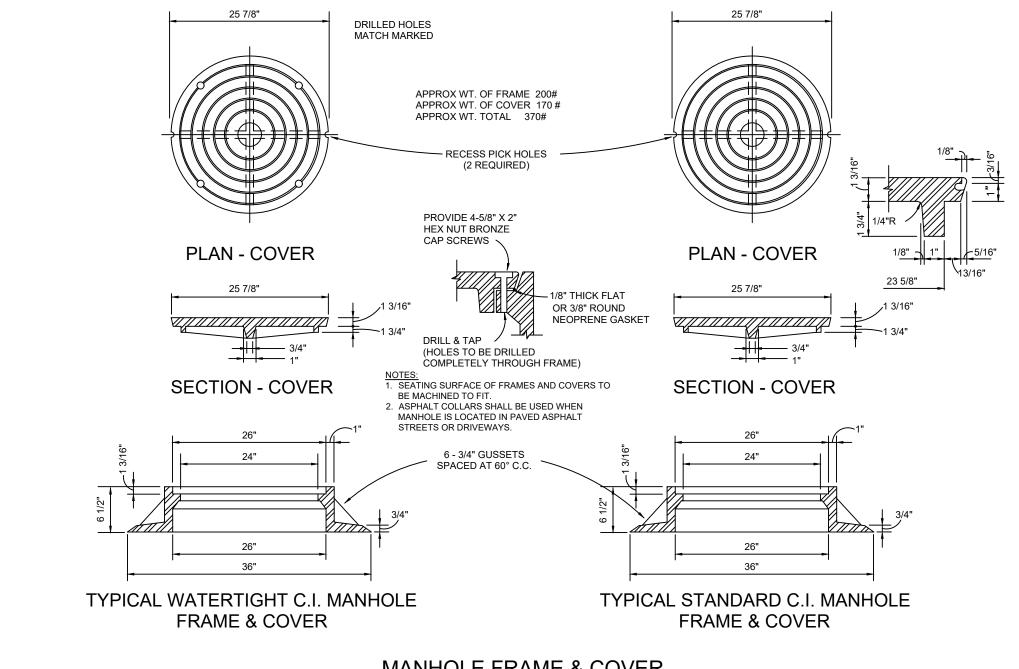


1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS
THE CITY OF TROY UTILITIES

200-17

SCALE: N.T.S.



MANHOLE FRAME & COVER



1830 HARTFORD HIGHWAY DOTHAN, ALABAMA 36301 OFFICE 334.677.9431 FAX 334.677.9450 WWW.CDGE.COM

STANDARD DETAILS THE CITY OF TROY UTILITIES

200-18

SCALE: N.T.S.