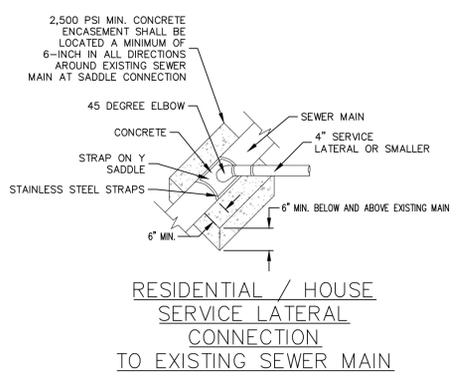
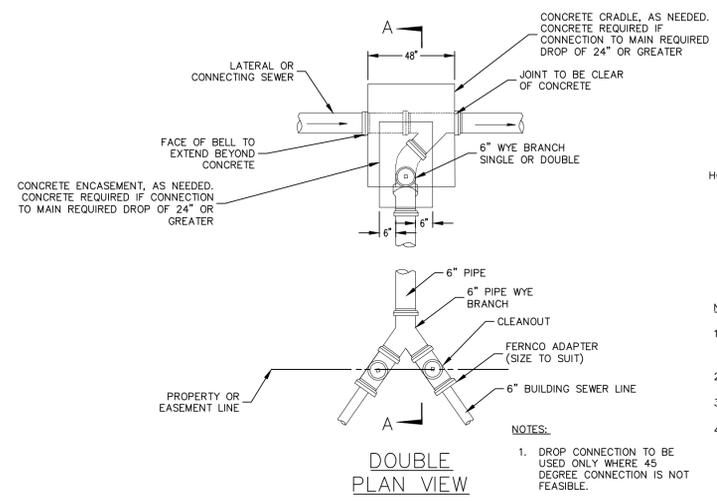


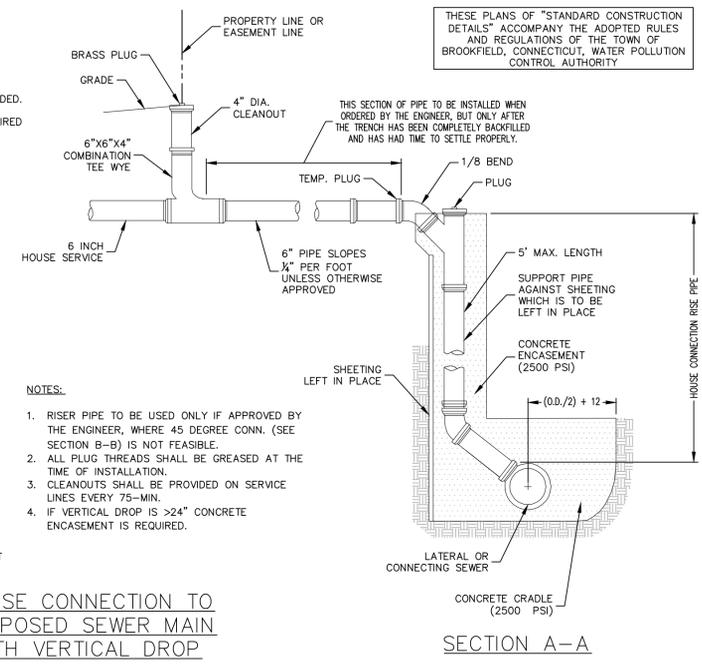
UTILITY CROSSING



RESIDENTIAL / HOUSE SERVICE LATERAL CONNECTION TO EXISTING SEWER MAIN



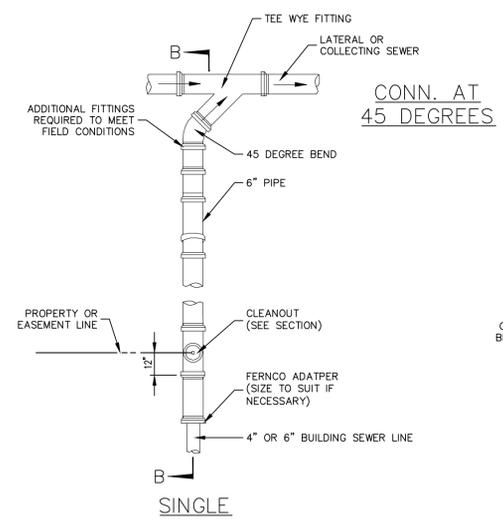
DOUBLE PLAN VIEW



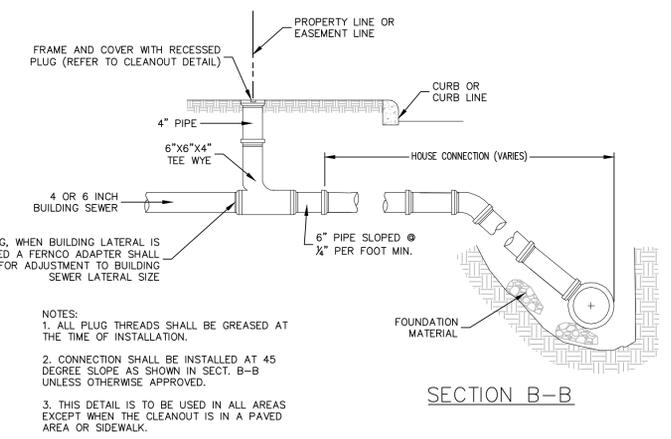
HOUSE CONNECTION TO PROPOSED SEWER MAIN WITH VERTICAL DROP

SECTION A-A

- NOTES:
1. RISER PIPE TO BE USED ONLY IF APPROVED BY THE ENGINEER, WHERE 45 DEGREE CONN. (SEE SECTION B-B) IS NOT FEASIBLE.
  2. ALL PLUG THREADS SHALL BE GREASED AT THE TIME OF INSTALLATION.
  3. CLEANOUTS SHALL BE PROVIDED ON SERVICE LINES EVERY 75'-MIN.
  4. IF VERTICAL DROP IS >24" CONCRETE ENCASEMENT IS REQUIRED.



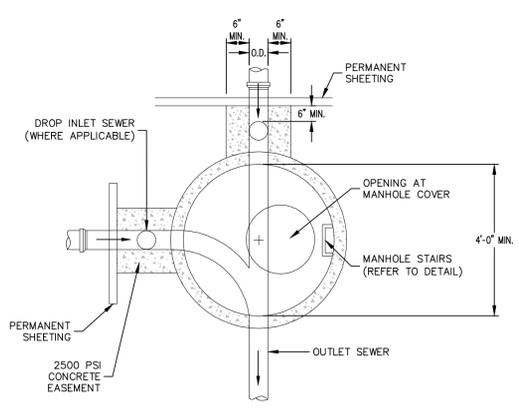
CONN. AT 45 DEGREES



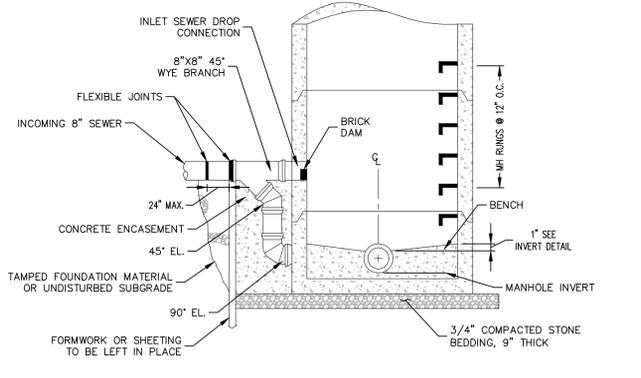
HOUSE CONNECTION DETAILS

SECTION B-B

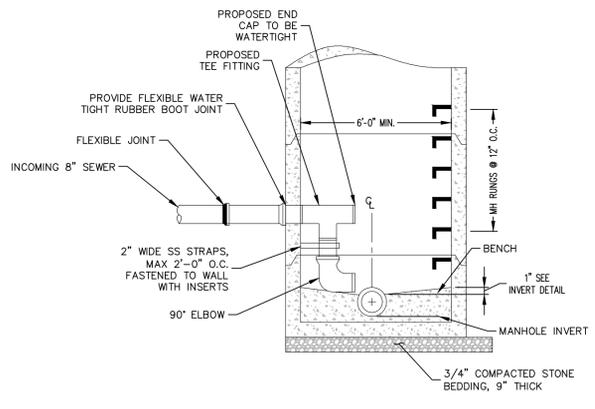
- NOTES:
1. ALL PLUG THREADS SHALL BE GREASED AT THE TIME OF INSTALLATION.
  2. CONNECTION SHALL BE INSTALLED AT 45 DEGREE SLOPE AS SHOWN IN SECT. B-B UNLESS OTHERWISE APPROVED.
  3. THIS DETAIL IS TO BE USED IN ALL AREAS EXCEPT WHEN THE CLEANOUT IS IN A PAVED AREA OR SIDEWALK.



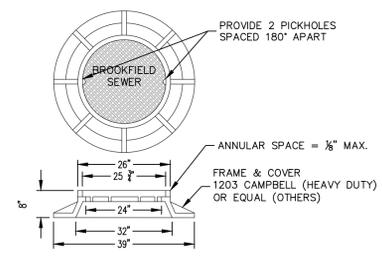
DROP MANHOLE PLAN



DROP MANHOLE - EXTERNAL SECTION

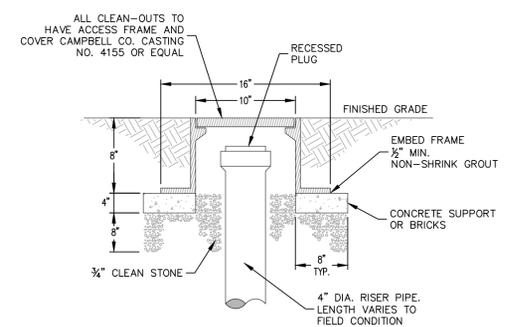


DROP MANHOLE - INTERNAL SECTION



MANHOLE FRAME & COVER

- NOTE:
1. FRAME AND COVER SHALL BE MODEL NO. 1203B AS MANUFACTURED BY CAMPBELL FOUNDRY OR APPROVED EQUAL. MODEL NO. 1203A = 4" FRAME HEIGHT.
  2. MANHOLE COVER SHALL SAY "BROOKFIELD SEWER."
  3. MATERIAL: GRAY CAST IRON, ASTM A48-83, CLASS 35B;
  4. AASHTO HS20-44 HIGHWAY LOADING;
  5. BEARING SURFACE AT SEAT OF COVER AND FRAME SHALL BE MACHINED FOR UNIFORM FIT;
  6. COVER SHALL HAVE TWO NON-PENETRATING PICK HOLES;
  7. MADE IN THE USA.



SANITARY SEWER CLEAN-OUT FRAME AND COVER DETAIL

Date	Description	No.
REVISIONS		
SIGNATURE		DATE SIGNED
W. CHARLES UTSCHIG, JR. PROFESSIONAL ENGINEER CT Lic. No. 0019262		

**LANGAN**  
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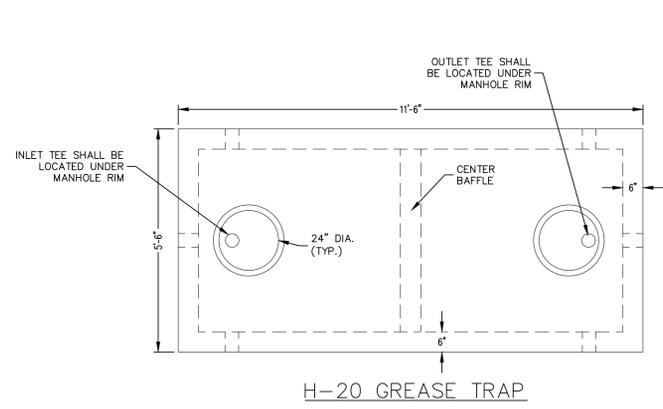
Project  
**WATER POLLUTION CONTROL AUTHORITY**  
TOWN OF BROOKFIELD  
FAIRFIELD COUNTY CONNECTICUT  
Drawing Title

**STANDARD CONSTRUCTION DETAILS**

Project No. <b>190085105</b>	Drawing No. <b>CS502</b>
Date <b>06/26/2024</b>	
Drawn By <b>AC</b>	
Checked By <b>RS/LM</b>	
	Sheet 2 of 4

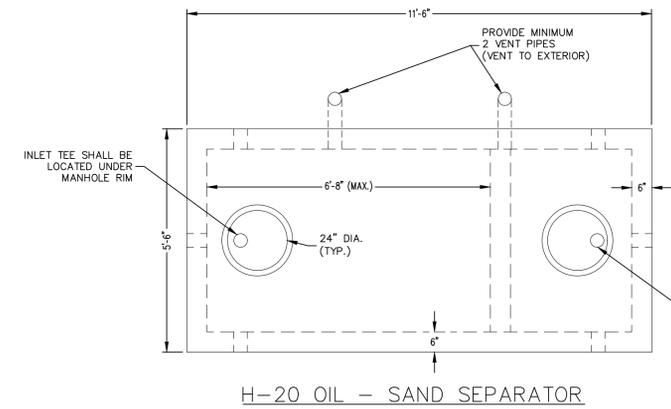
THESE PLANS OF "STANDARD CONSTRUCTION DETAILS" ACCOMPANY THE ADOPTED RULES AND REGULATIONS OF THE TOWN OF BROOKFIELD, CONNECTICUT, WATER POLLUTION CONTROL AUTHORITY

LANEAM PROJECT NO. 190085105



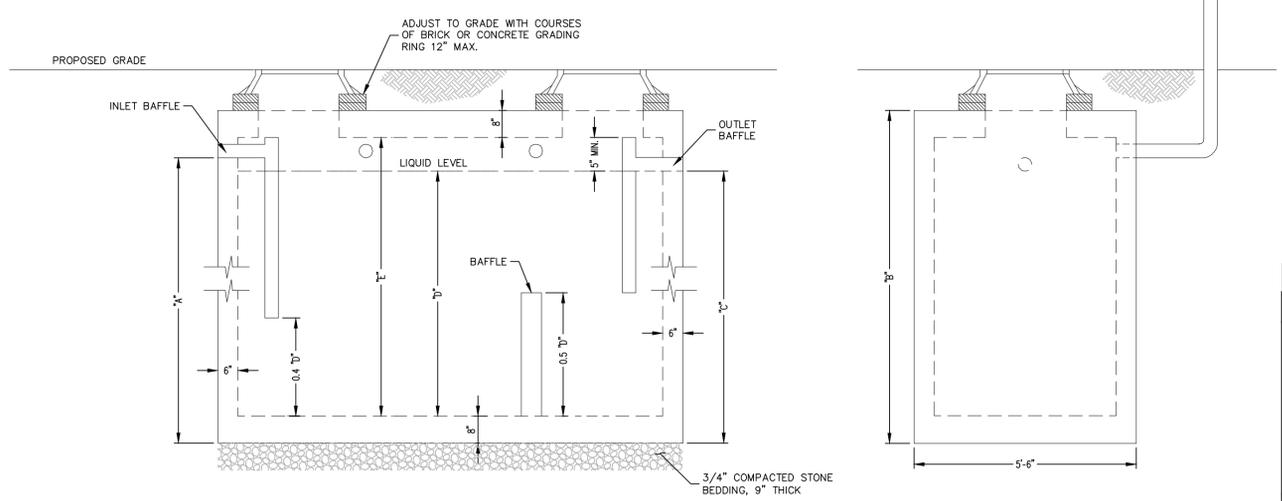
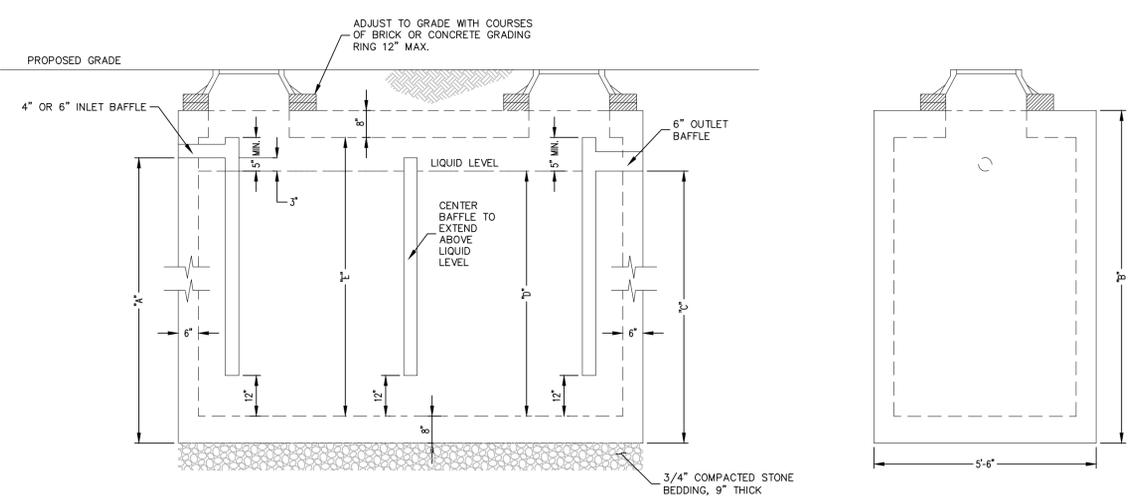
- SPECIFICATIONS:**
1. MINIMUM CONCRETE STRENGTH - 5,000 PSI @ 28 DAYS.
  2. MATERIALS & MANUFACTURING PER ASTM C-1227.
  3. STEEL REINFORCEMENT - WELDED DEFORMED BARS 4"x4" D6.5/D6.5 (GR. 80) ASTM A-497, OR EQUAL.
  4. CONSTRUCTION JOINT SEALED WITH 1" BUTYL MASTIC ASTM C-990.
  5. 6" DIA. OUTLET TEE EQUIPPED WITH GAS DEFLECTOR OR EFFLUENT FILTER.
  6. 4"-6" PIPE SEALS: RISSY PLASTICS MINI BOOT, OR EQUAL, MEETS PRESSURE REQUIREMENTS OF ASTM C-923.
  7. CAPACITY @ FLOW LINE: 1,026 GALLONS.
  8. 28.5 GALLONS/INCH OF RISE.
  9. APPROXIMATE ASSEMBLED WEIGHT: 19,800 LBS.
  10. CONSTRUCTION JOINT ON 1000 GAL IS ABOVE STATIC LIQUID LEVEL. CONSTRUCTION JOINT ON LARGER SIZES IS BELOW STATIC LEVEL.
  11. GREASE TRAP SHALL BE A MINIMUM OF 10'-FT FROM THE BUILDING FACE.
  12. SEPARATION DISTANCES SHALL COMPLY WITH CTDOH TABLE 1 AS LISTED IN THE APPENDIX TO THE BROOKFIELD WPCA RULES AND REGULATIONS.
  13. GREASE TRAPS SHALL BE SUPPLIED WITH AN EPOXY COATING ON THE INSIDE OF THE TANK AND A TAR COATING ON THE OUTSIDE OF THE TANK.

H-20 GREASE TRAP



- SPECIFICATIONS:**
1. MINIMUM CONCRETE STRENGTH - 5,000 PSI @ 28 DAYS.
  2. MATERIALS & MANUFACTURING PER ASTM C-1227.
  3. STEEL REINFORCEMENT - WELDED DEFORMED BARS 4"x4" (GR. 60) ASTM A-497, OR EQUAL.
  4. CONSTRUCTION JOINT SEALED WITH 1" BUTYL MASTIC ASTM C-990.
  5. CONSTRUCTION JOINT ON 1000 GAL IS ABOVE STATIC LIQUID LEVEL. CONSTRUCTION JOINT ON LARGER SIZES IS BELOW STATIC LEVEL.
  6. OIL-SAND SEPARATOR SHALL BE SUPPLIED WITH AN EPOXY COATING ON THE INSIDE OF THE TANK AND A TAR COATING ON THE OUTSIDE OF THE TANK.

H-20 OIL - SAND SEPARATOR

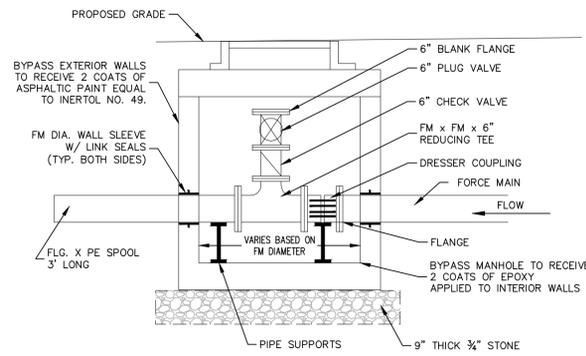


TANK CAPACITY	"A" INLET HGT.	"B" O.A. HGT.	"C" OUTLET HGT.	"D" LIQUID LEVEL	"E" INSIDE HGT.
1000 GAL. *	47"	61"	44"	36"	45"
1250 GAL.	56"	70"	53"	45"	54"
1500 GAL.	66"	79"	63"	55"	63"
2000 GAL.	82"	95"	79"	71"	79"
2500 GAL.	102"	115"	98"	92"	99"
3000 GAL.	117"	130"	114"	108"	114"
3500 GAL.	135"	148"	132"	124"	132"

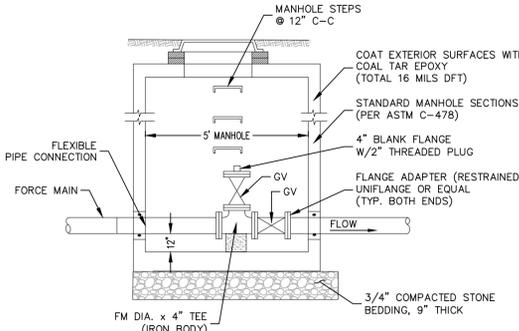
\* 1000 GALLONS MINIMUM SIZE

TANK CAPACITY	"A" INLET HGT.	"B" O.A. HGT.	"C" OUTLET HGT.	"D" LIQUID LEVEL	"E" INSIDE HGT.
1000 GAL.	47"	61"	44"	36"	45"
1250 GAL.	56"	70"	53"	45"	54"
1500 GAL.	66"	79"	63"	55"	63"
2000 GAL.	82"	95"	79"	71"	79"
2500 GAL.	102"	115"	98"	92"	99"
3000 GAL.	117"	130"	114"	108"	114"
3500 GAL.	135"	148"	132"	124"	132"

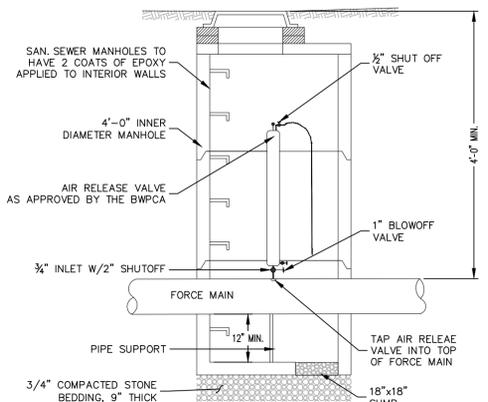
Date	Description	No.
REVISIONS		
SIGNATURE		DATE SIGNED
W. CHARLES UTSCHIG, JR. PROFESSIONAL ENGINEER CT Lic. No. 0019262		
<b>LANGAN</b>		
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. One North Broadway, Suite 910 White Plains, NY 10601		
T: 914.323.7400 F: 914.323.7401 www.langan.com		
Project		
<b>WATER POLLUTION CONTROL AUTHORITY</b>		
TOWN OF BROOKFIELD FAIRFIELD COUNTY CONNECTICUT		
Drawing Title		
<b>STANDARD CONSTRUCTION DETAILS</b>		
Project No.	Drawing No.	
190085105	<b>CS503</b>	
Date		
06/26/2024		
Drawn By		
AC	Checked By	
RS/LM	Sheet 3 of 4	



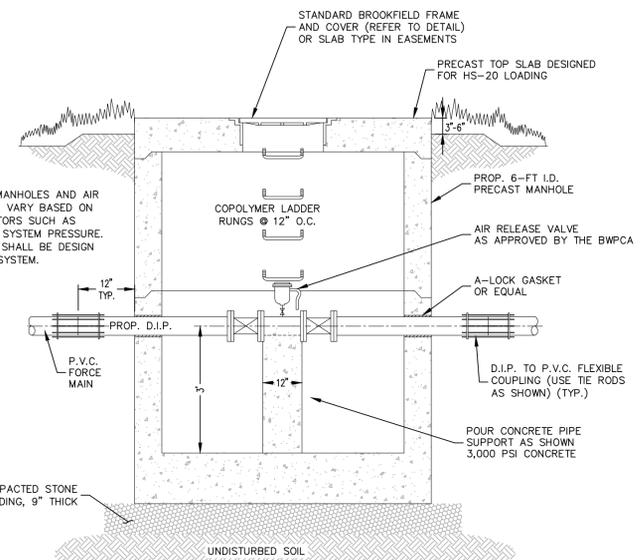
PUMP STATION BYPASS CONNECTION



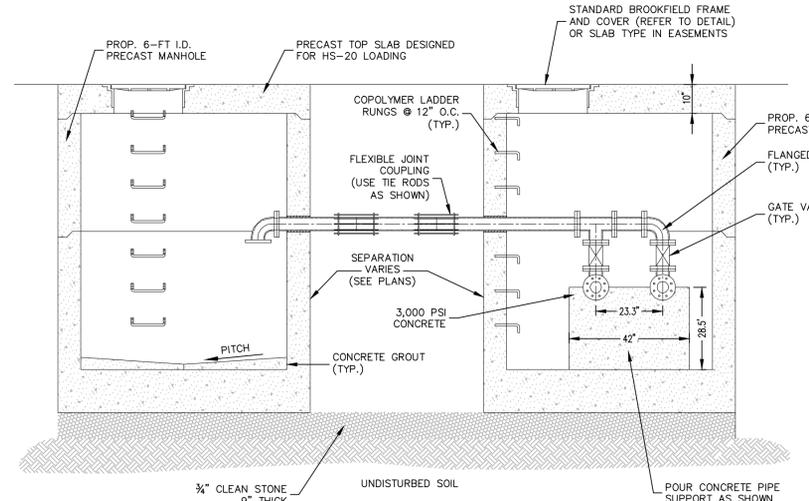
FORCE MAIN CLEANOUT MANHOLE (4"-12" FORCE MAINS)



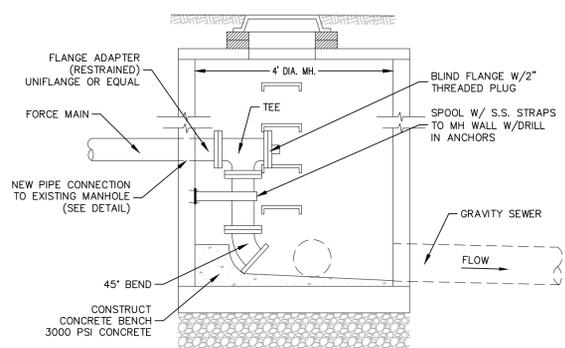
AIR RELEASE VALVE MANHOLE



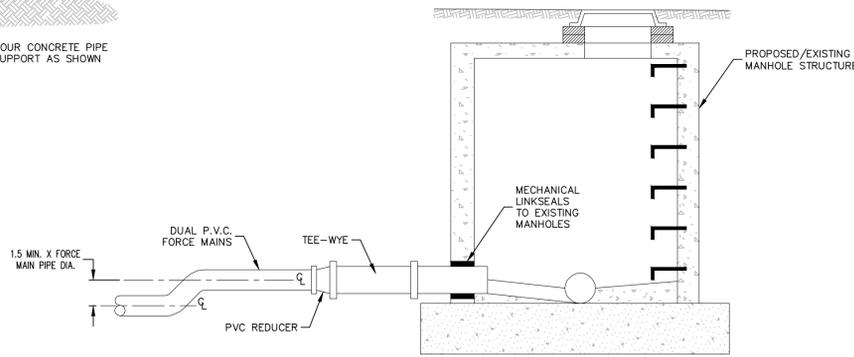
DUAL AIR RELEASE VALVE MANHOLE SECTION A-A



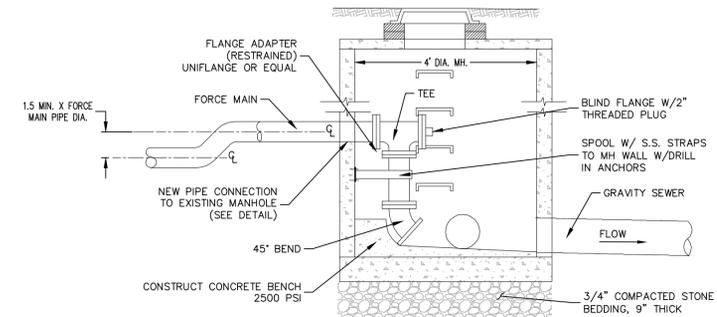
DUAL FORCE MAIN BLOWOFF MANHOLE SECTION A-A



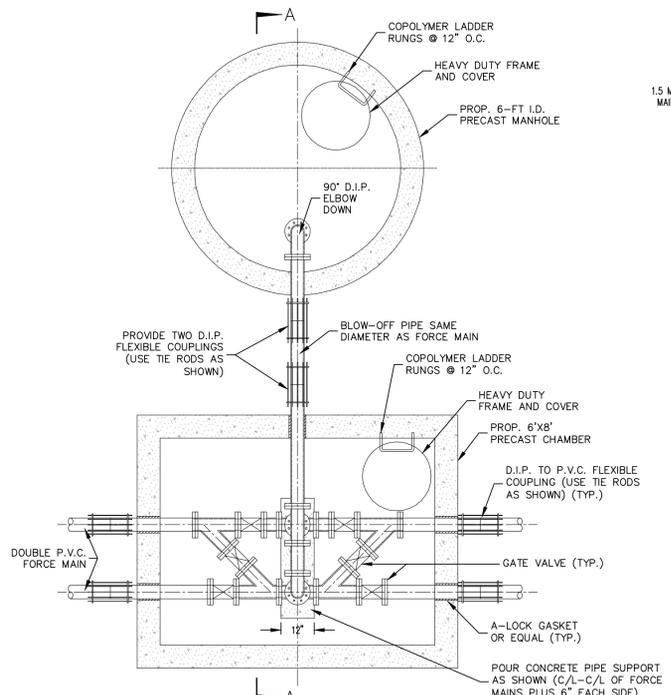
SINGLE FORCE MAIN DROP CONNECTION TO GRAVITY SEWER MANHOLE



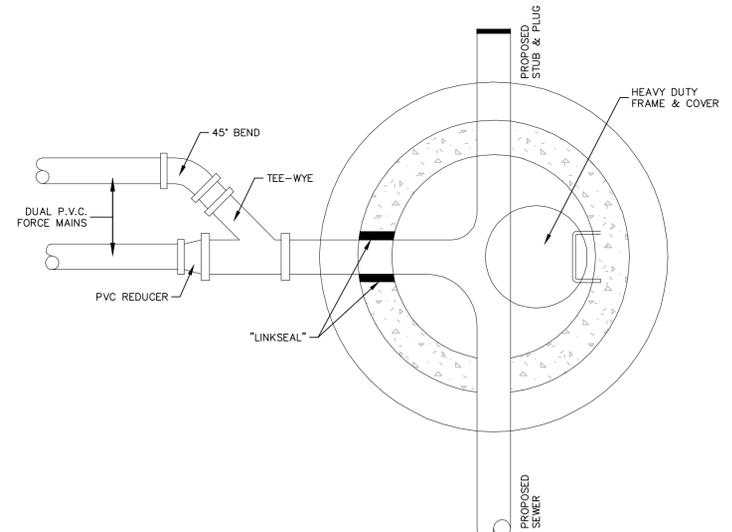
DUAL FORCE MAIN CONNECTION TO MANHOLE AT COMMON INVERTS



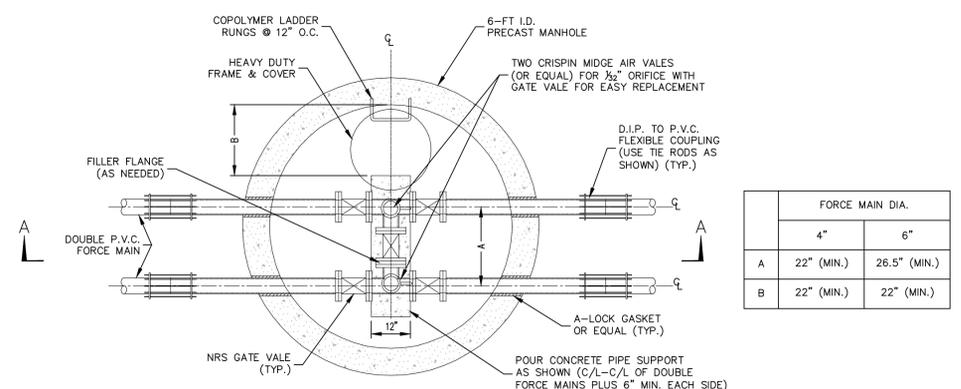
DUAL FORCE MAIN DROP CONNECTION TO GRAVITY SEWER



DUAL FORCE MAIN BLOWOFF MANHOLE DETAIL



DUAL FORCE MAIN CONNECTION PLAN VIEW



DUAL FORCE RELEASE VALE MANHOLE DETAIL

FORCE MAIN DIA.	
	4" 6"
A	22" (MIN.) 26.5" (MIN.)
B	22" (MIN.) 22" (MIN.)

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Date	Description	No.
REVISIONS		
SIGNATURE: W. CHARLES UTSCHIG, JR. DATE SIGNED: 06/26/2024		
<b>LANGAN</b>		
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Drawing Title: STANDARD CONSTRUCTION DETAILS		
Project No. 190085105	Drawing No. CS504	
Date 06/26/2024	Drawn By AC	
Checked By RS/LM	Sheet 4 of 4	