

STATE OF GEORGIA

CITY OF HAMPTON

ADOPTED BY THE GOVERNING BODY THIS 11 DAY OF JULY, 2023.

ORDINANCE NO. **2023-08**

**AN ORDINANCE OF THE CITY OF HAMPTON'S MAYOR AND COUNCIL AMENDING APPENDIX B SUBDIVISIONS, ARTICLE 4 IMPROVEMENTS STANDARDS, SECTION 4-35 STANDARDS FOR WATER AND SEWER SYSTEMS; TO PROVIDE FOR SEVERABILITY; TO PROVIDE FOR AN EFFECTIVE DATE.**

**WHEREAS**, the City of Hampton (hereinafter "City") is governed by the Mayor and Council; and

**WHEREAS**, the City of Hampton provides for standards for water and sewer systems in the Subdivision appendix of the Code of Ordinances; and

**WHEREAS**, it is the desire of this Council to make updates to the development standards for design and installation of water and sewer systems; and

**WHEREAS**, it is in the City's best interest to revise the current Code of Ordinances to amend Section 4.35 of Appendix B Subdivisions to ensure the most current water and sewer standards are reflected in the City's Code of Ordinances.

**Section 1.** NOW THEREFORE IT IS HEREBY RESOLVED that Section 4-35 Standards for Water and Sewer Systems of Appendix B Subdivisions of the City Code be amended so that as amended, Section 4-35 of Appendix B shall read:

***Sec. 4-35. – Standards for Water and Sewer Systems.***

***The "City of Hampton Water and Sewer Department Development Standards for Design and Installation of Water and Sewerage Systems", adopted June 2023, as hereafter amended, is incorporated by reference and made a part of this Appendix. The Water and Sewer Department Development Standards for Design and Installation of Water and Sewerage Systems are on file in the office of the City Clerk.***

**Section 2.** The preamble of this Ordinance shall be considered to be and is hereby incorporated by reference as if fully set out herein.

**Section 3.** This Ordinance shall be codified in a manner consistent with the laws of the State of Georgia and the City of Hampton.

**Section 4.** This Ordinance shall take effect immediately upon its adoption. All Ordinances in conflict herewith are expressly repealed. It is the intention of the governing body, and it is hereby ordained that the provisions of this Ordinance shall become and be made a part of the Code of Ordinances, City of Hampton, Georgia, and the sections of this Ordinance may be renumbered, if necessary, to accomplish such intention.

**Section 5.**

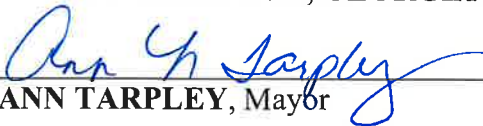
- a. It is hereby declared to be the intention of the Mayor and Council that all sections, paragraphs, sentences, clauses and phrases of this Ordinance are or were, upon their enactment, believed by the Mayor and Council to be fully valid, enforceable and constitutional.
- b. It is hereby declared to be the intention of the Mayor and Council that, to the greatest extent allowed by law, each and every section, paragraph, sentence, clause and phrase of this Ordinance is severable from every other, section, paragraph, sentence, clause or phrase of this Ordinance. It is hereby further declared to be the intention of the Mayor and Council that, to the greatest extent allowed by law, no section, paragraph, sentence, clause or phrase of this Ordinance is mutually dependent upon any other section, paragraph, sentence, clause or phrase of this Ordinance.
- c. In the event that any phrase, clause, sentence, paragraph or Section of this Ordinance shall, for any reason whatsoever, be declared invalid, unconstitutional or otherwise unenforceable by the valid judgment or decree of any court of competent jurisdiction, it is the express intent of the Mayor and Council that such invalidity, unconstitutionality or unenforceability shall, to the greatest extent allowed by law, not render invalid, unconstitutional or otherwise unenforceable any of the remaining phrases, clauses, sentences, paragraphs or Sections of the Ordinance and that, to the greatest extent allowed by law, all remaining phrases, clauses, sentences, paragraphs and Sections of the Article shall remain valid, constitutional, enforceable, and of full force and effect.

**Section 6.** All ordinances and parts of ordinances in conflict herewith are hereby expressly repealed.

**Section 7.** The effective date of this Ordinance shall be the date of adoption unless otherwise specified herein.

**SO ORDAINED**, this 11<sup>th</sup> day of July 2023.

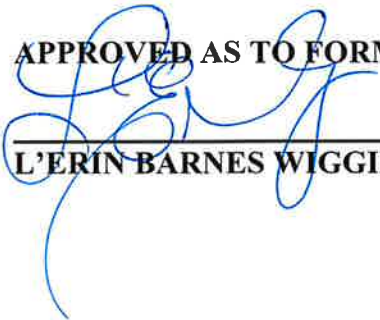
**CITY OF HAMPTON, GEORGIA**

  
ANN TARPLEY, Mayor

**ATTEST:**

  
\_\_\_\_\_  
**RASHIDA FAIRLEY**, City Clerk

**APPROVED AS TO FORM:**

  
\_\_\_\_\_  
**L'ERIN BARNES WIGGINS**, City Attorney

First Reading: June 13, 2023  
Second Reading/  
Adoption: July 11, 2023

Attachments - Water and Sewer Department Development Standards for Design and  
Installation of Water and Sewerage Systems

“EXHIBIT A (W01)”



# RESIDENTIAL UTILITY PLACEMENT FOR ROAD WITH 50' RIGHT-OF-WAY

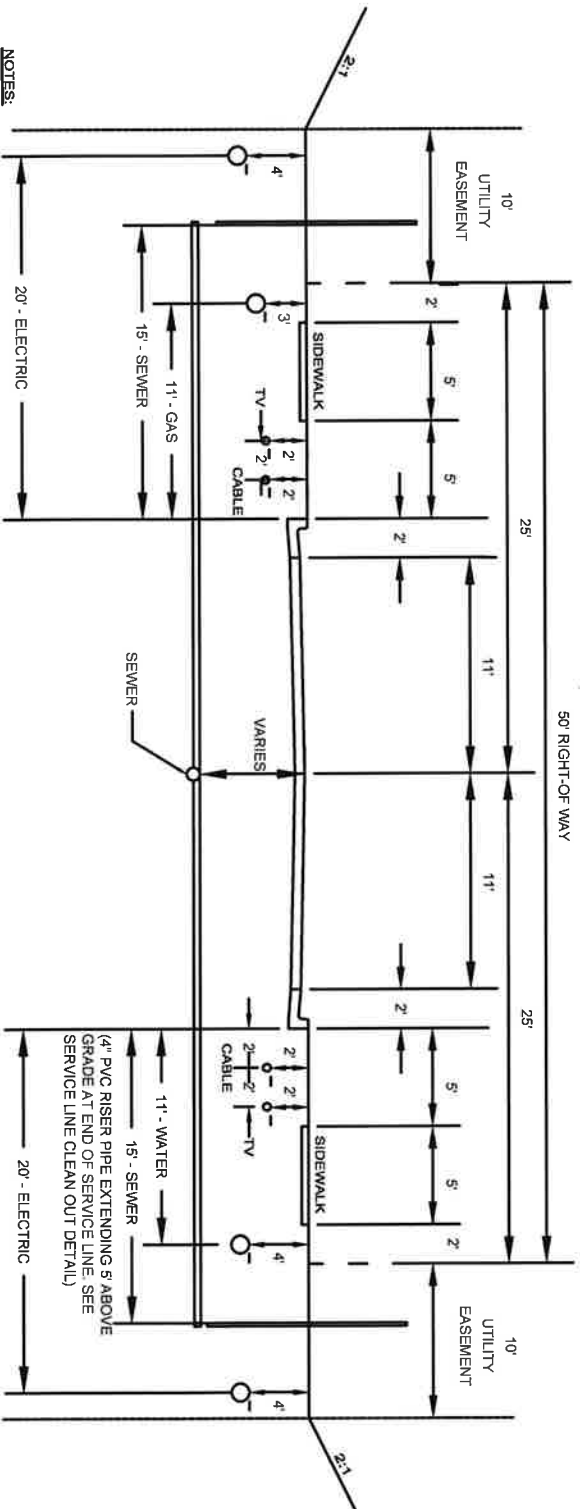
CITY OF HAMPTON, GEORGIA

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

W01



## NOTES:

1. NO TREES OR FENCES ALLOWED WITHIN THE ROAD R/W OR UTILITY EASEMENT EXCEPT WHERE REQUIRED BY CITY, COUNTY, OR OTHER GOVERNMENT ORDINANCE.
2. ALL TREES SHALL BE CLEARED AND SHOULDERS GRADED WITHIN 8" OF FINAL GRADE (INCLUDING UTILITY EASEMENT) PRIOR TO THE INSTALLATION OF ANY UTILITIES.
3. UTILITY PLACEMENT SHALL REMAIN CONSISTENT FROM BACK OF CURB THROUGHOUT THE PROJECT REGARDLESS OF ANY INCONSISTENCIES IN ROAD CONSTRUCTION. EXAMPLES: STORM SEWERS, CULVERTS, CUL-DE-SACS, ETC. (EXCEPT CATV).
4. AFTER VERIFICATION OF FINAL GRADE, UTILITIES SHALL BE INSTALLED AS FOLLOWS: WATER, ELECTRIC, GAS, TELEPHONE, AND CABLE TELEVISION.
5. TOTAL CLEARED AND GRADED WIDTH TO BE 70' MINIMUM.
6. PROPERTY CORNER REFERENCE SHALL BE PLACED ON CURB AND GUTTER AND ON 10' OFFSET STAKE.
7. UTILITY EASEMENT SHALL BE SHOWN AND RECORDED WITH THE FINAL PLAT.
8. WATER METER BOXES SHALL BE LOCATED 6' BACK OF R/W. SEWER SERVICES SHALL BE STUBBED OUT 17' BACK OF CURB.
9. WATER SERVICE LINES SHALL BE MARKED WITH A BLUE 'W' ON CURB. SEWER LATERALS SHALL BE MARKED WITH A GREEN 'X' ON CURB.
10. DEPTH REQUIREMENTS INDICATE MINIMUM DEPTH AT TIME OF INSTALLATION BELOW CURB LINE.
11. THIS STANDARD MAY BE COMBINED WITH JOINT USE STANDARD.
12. CATV PEDESTALS, TELEPHONE PEDESTALS, TRANSFORMERS, AND STREET LIGHTS SHALL BE PLACED IN 5' UTILITY EASEMENT.
13. UTILITIES SHALL BE LOCATED WITHIN PLUSMINUS 8" OF PLAN LOCATION.



# WATER LINE TRENCH DETAIL

CITY OF HAMPTON

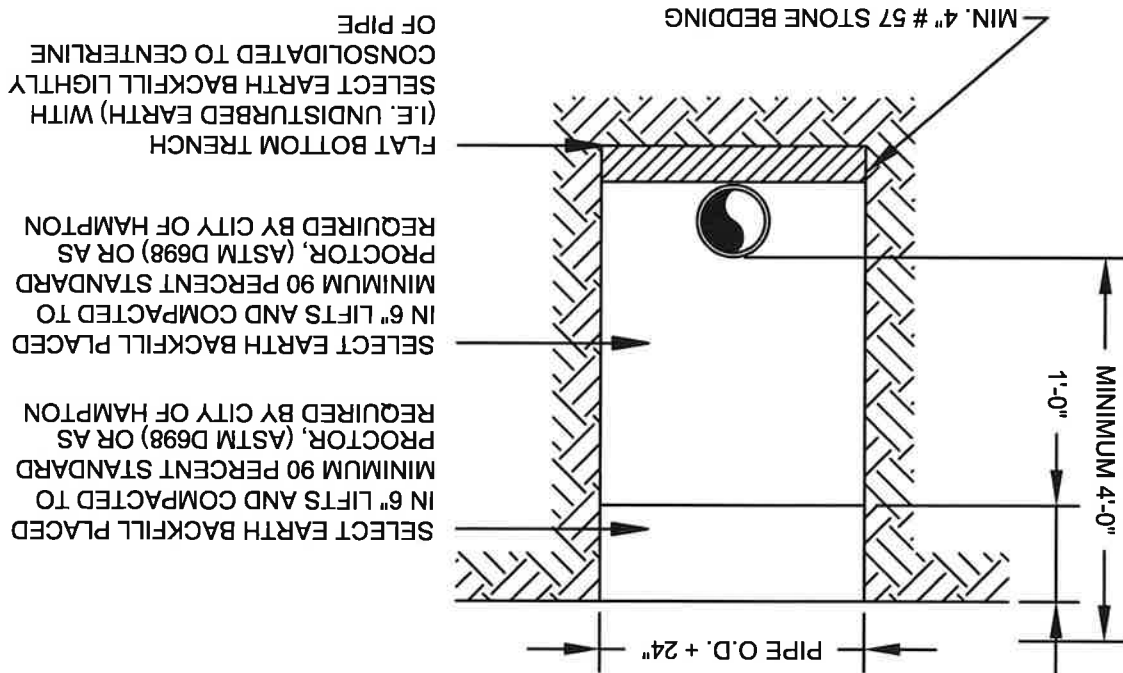
W02

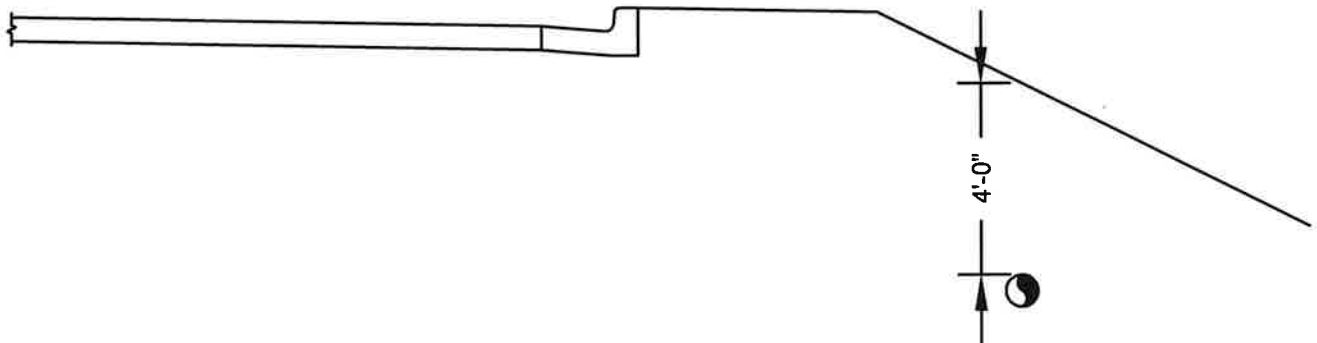
DETAIL NO.

SCALE: N.T.S.

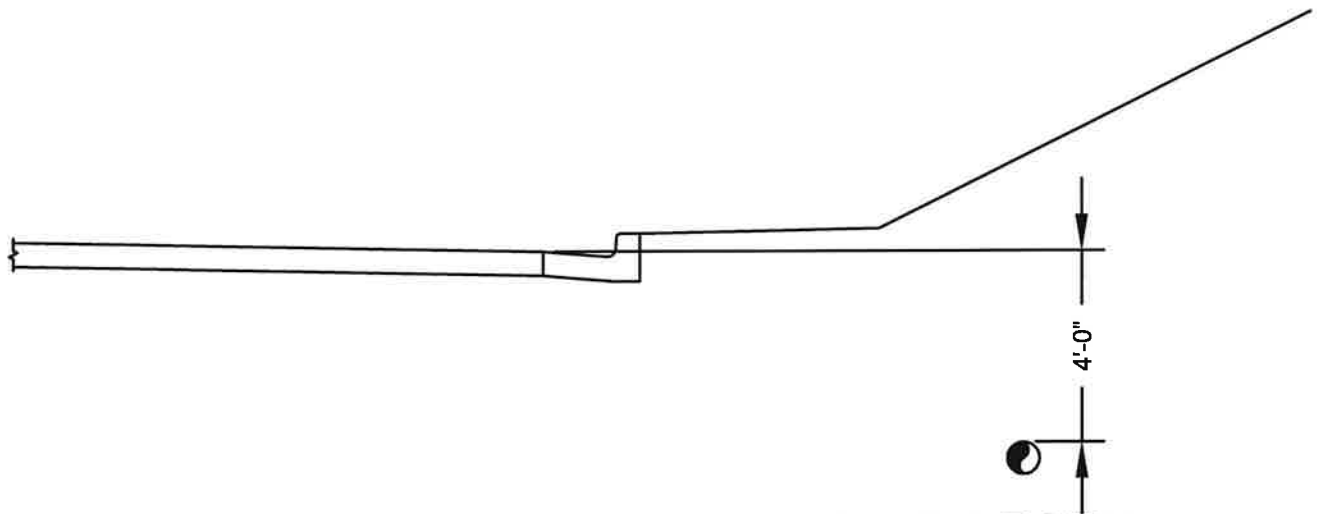
REVISED: 09/30/2022

- NOTES:
1. C900 PVC PIPE FOR WATER MAINS SHALL BE BEDDED IN ACCORDANCE WITH AWWA C605 MIN. 4" #57 STONE BEDDING.
  2. MINIMUM DEPTH OF COVER SHALL BE 4'-0" UNLESS OTHERWISE APPROVED BY CITY OF HAMPTON





### PIPE DEPTH WITH DECLINING GRADE AT EDGE OF PAVEMENT



### PIPE DEPTH WITH INCREASING GRADE AT EDGE OF PAVEMENT

#### NOTES:

1. WATER MAINS SHALL HAVE A MINIMUM DEPTH OF COVER OF 4'-0" UNLESS OTHERWISE APPROVED BY CITY OF HAMPTON.



CITY OF HAMPTON

## PIPE DEPTH AT EDGE OF PAVEMENT

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**W03**



# TYPICAL FIRE HYDRANT ASSEMBLY

CITY OF HAMPTON

W04

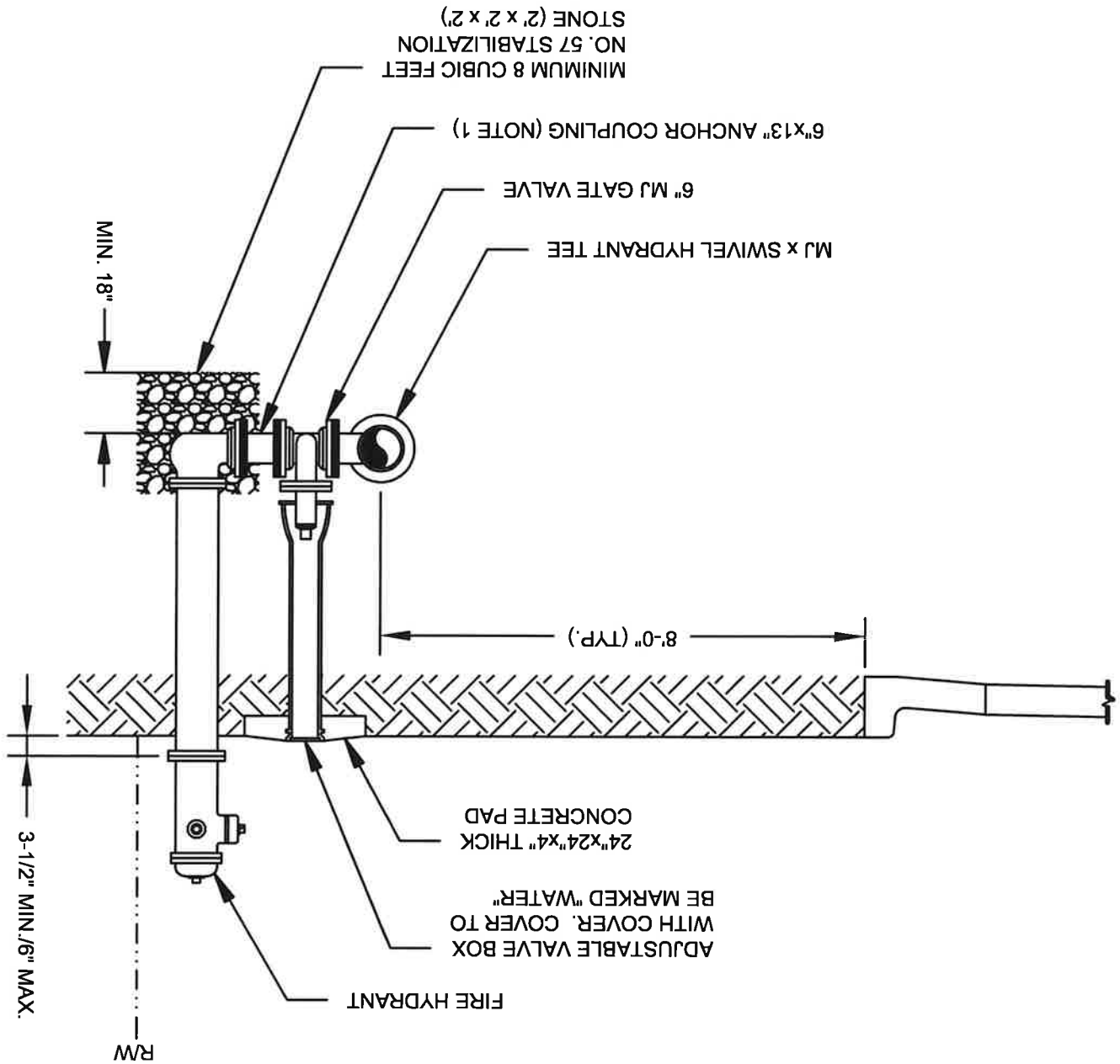
DETAIL NO.

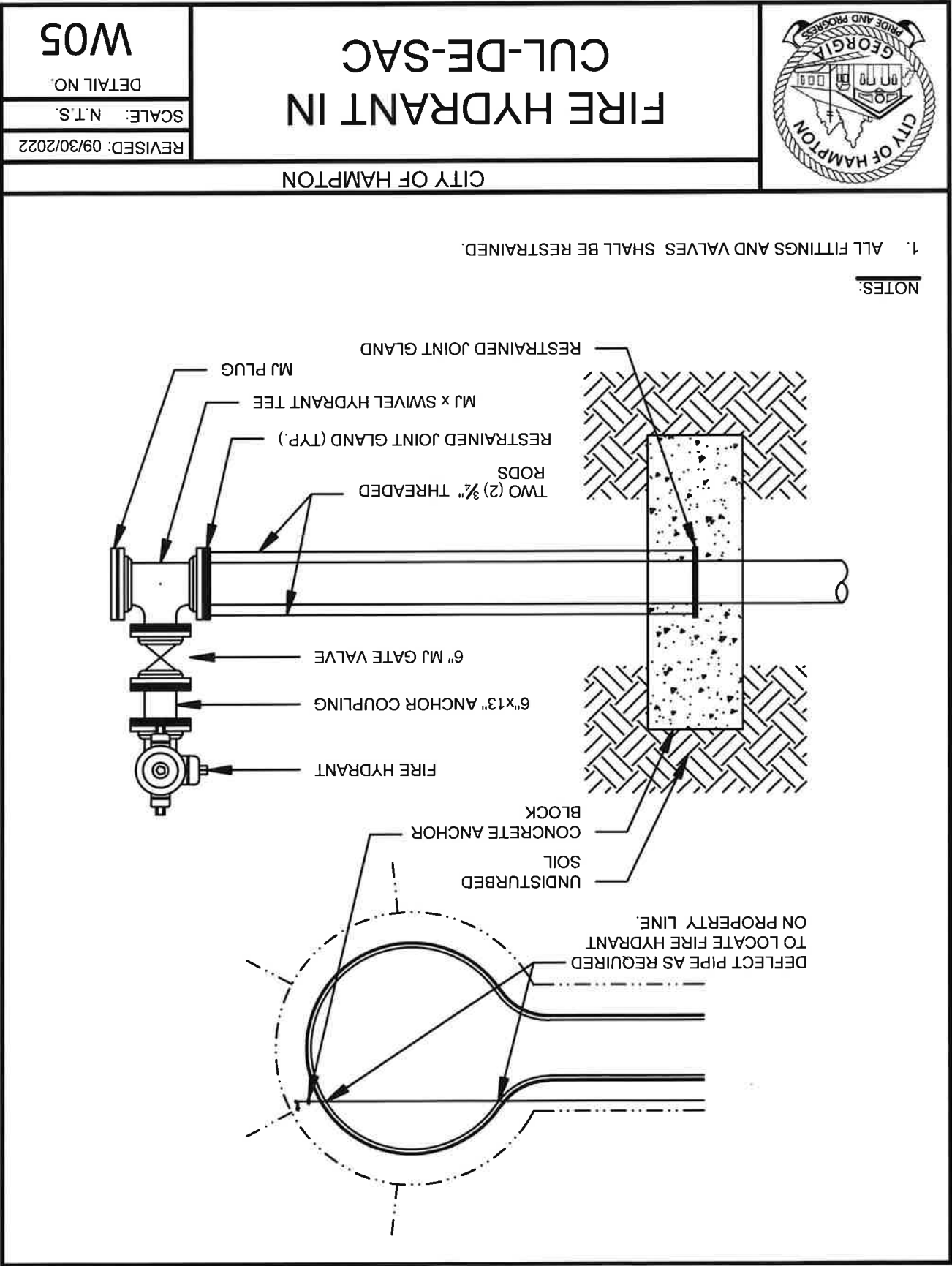
SCALE: N.T.S.

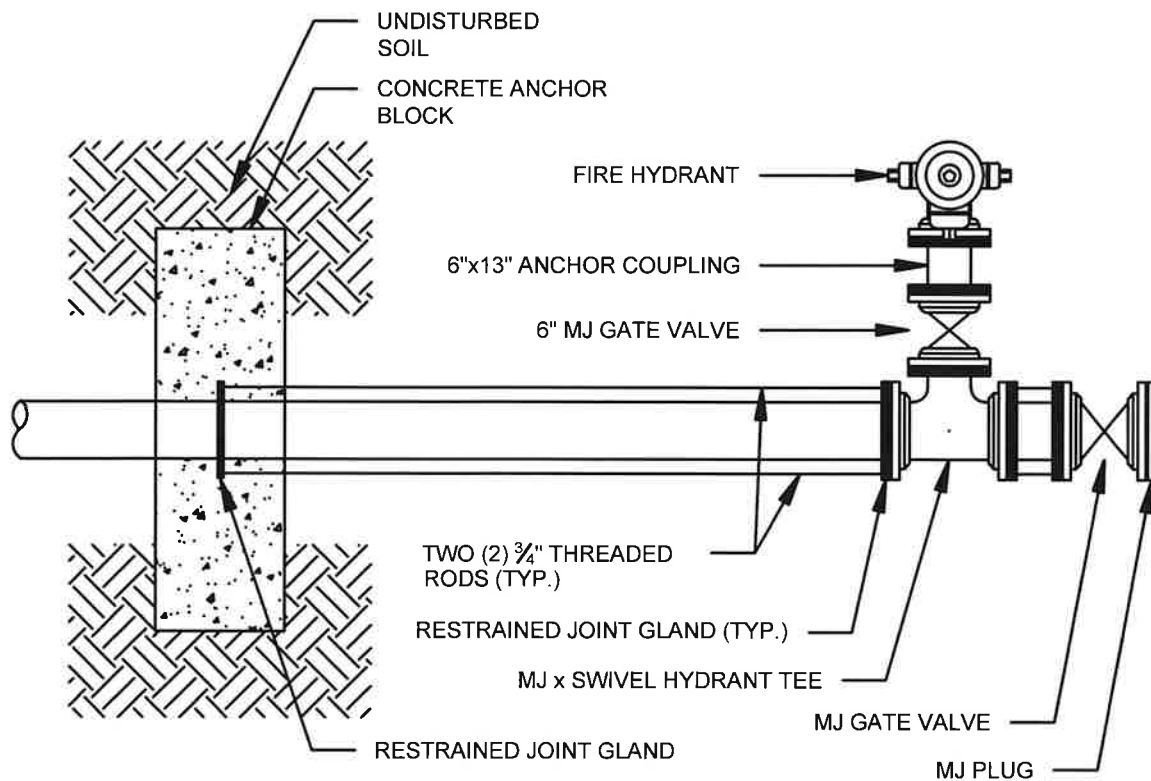
REVISED: 09/30/2022

## NOTES:

1. LONGER ANCHOR COUPLINGS MAY BE USED WHEN REQUIRED. IF ANCHOR COUPLINGS ARE NOT USED, VALVE SHALL BE RODDED TO THE TEE AND HYDRANT SHALL BE RODDED TO THE VALVE USING A MINIMUM OF TWO (2) 3/4" THREADED RODS ON EACH CONNECTION.







**NOTES:**

1. ALL FITTINGS AND VALVES SHALL BE RESTRAINED.
2. FIELD CONDITION MAY REQUIRE ADDITIONAL RESTRAINT AS DIRECTED BY CITY OF HAMPTON.



CITY OF HAMPTON

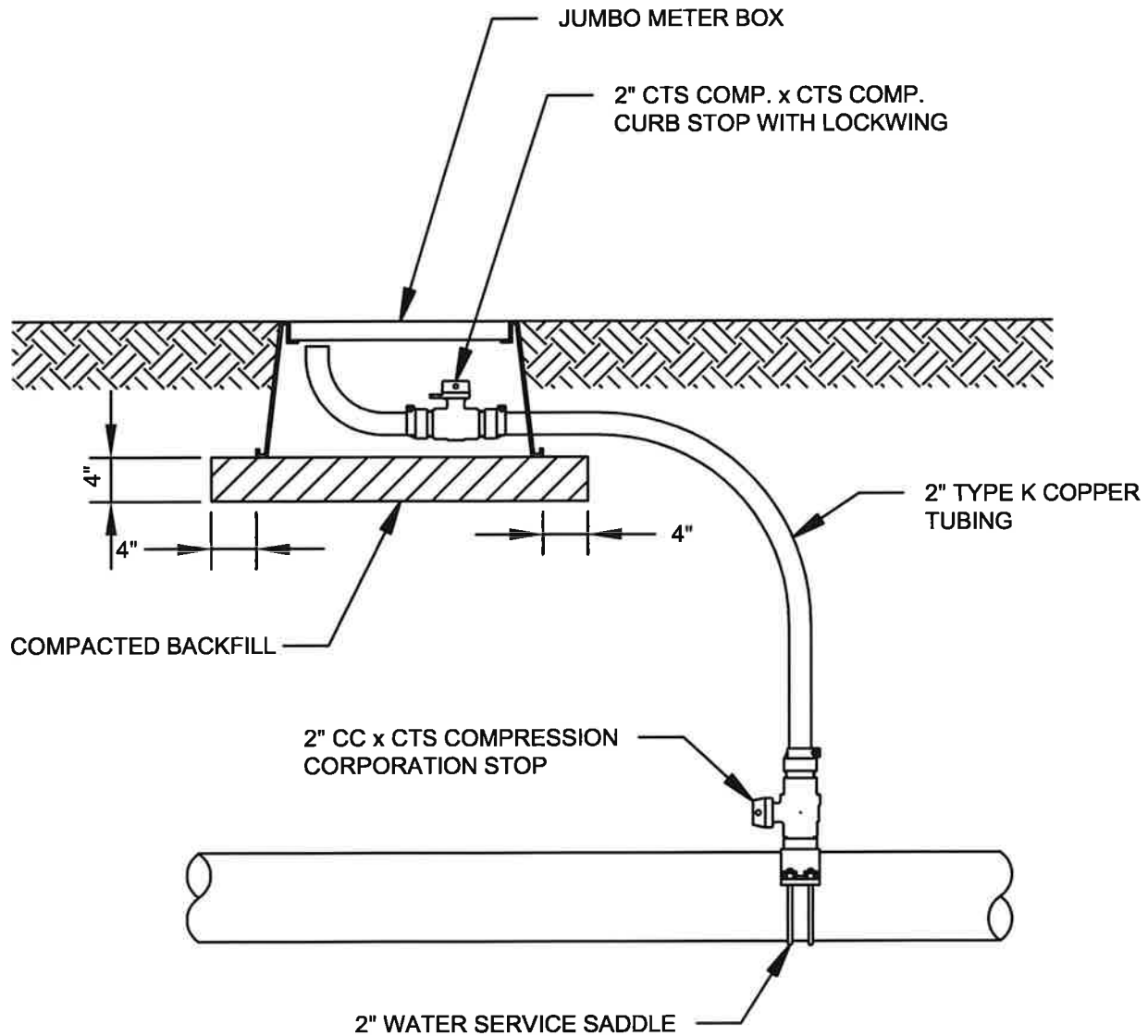
# FIRE HYDRANT AT DEAD END

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**W06**



CITY OF HAMPTON

# WATER LINE BLOW-OFF

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**W07**

W08

DETAIL NO.

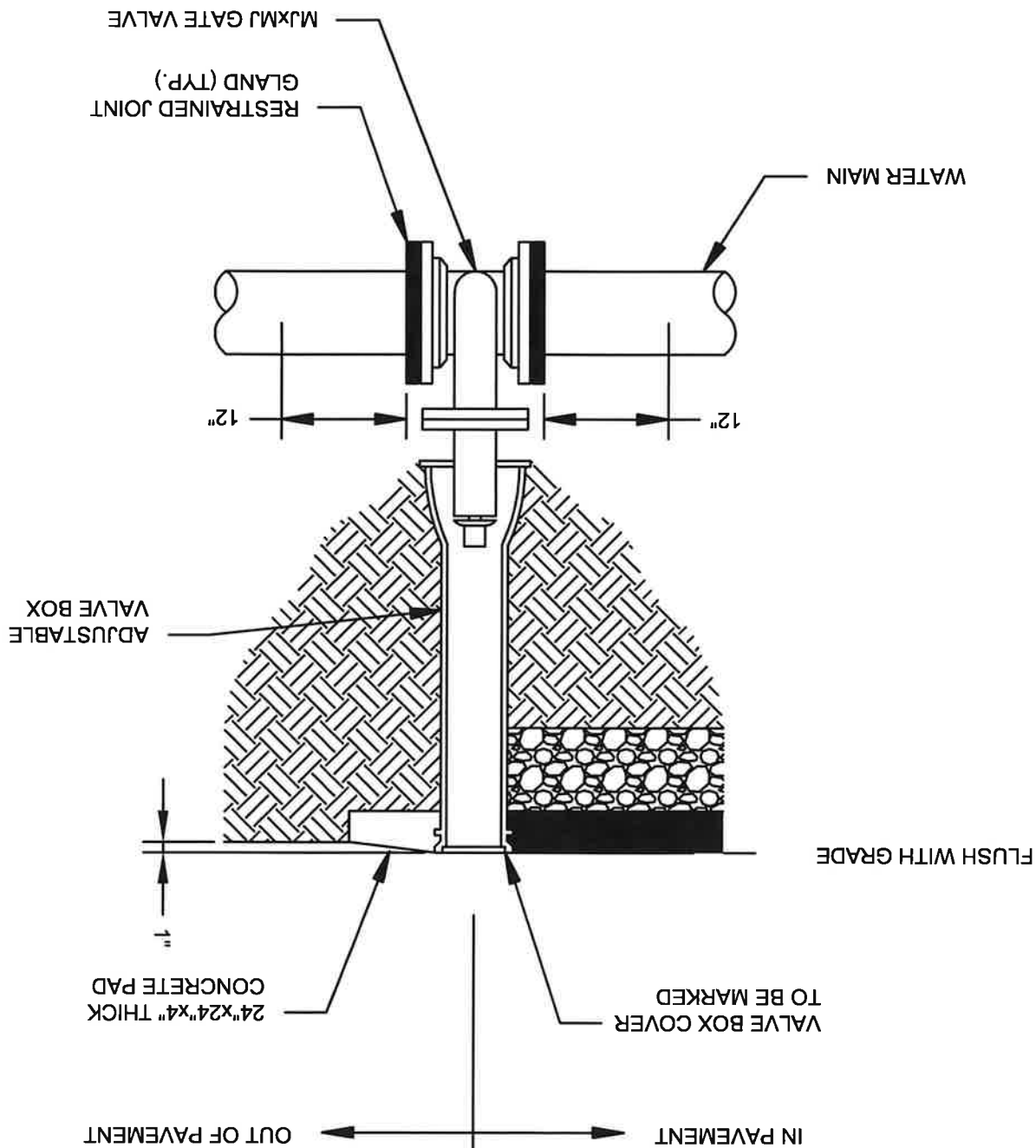
SCALE: N.T.S.

REVISED: 09/30/2022

# WATER LINE ISOLATION VALVE



CITY OF HAMPTON





# WATER LINE INTERSECTION

CITY OF HAMPTON

W09

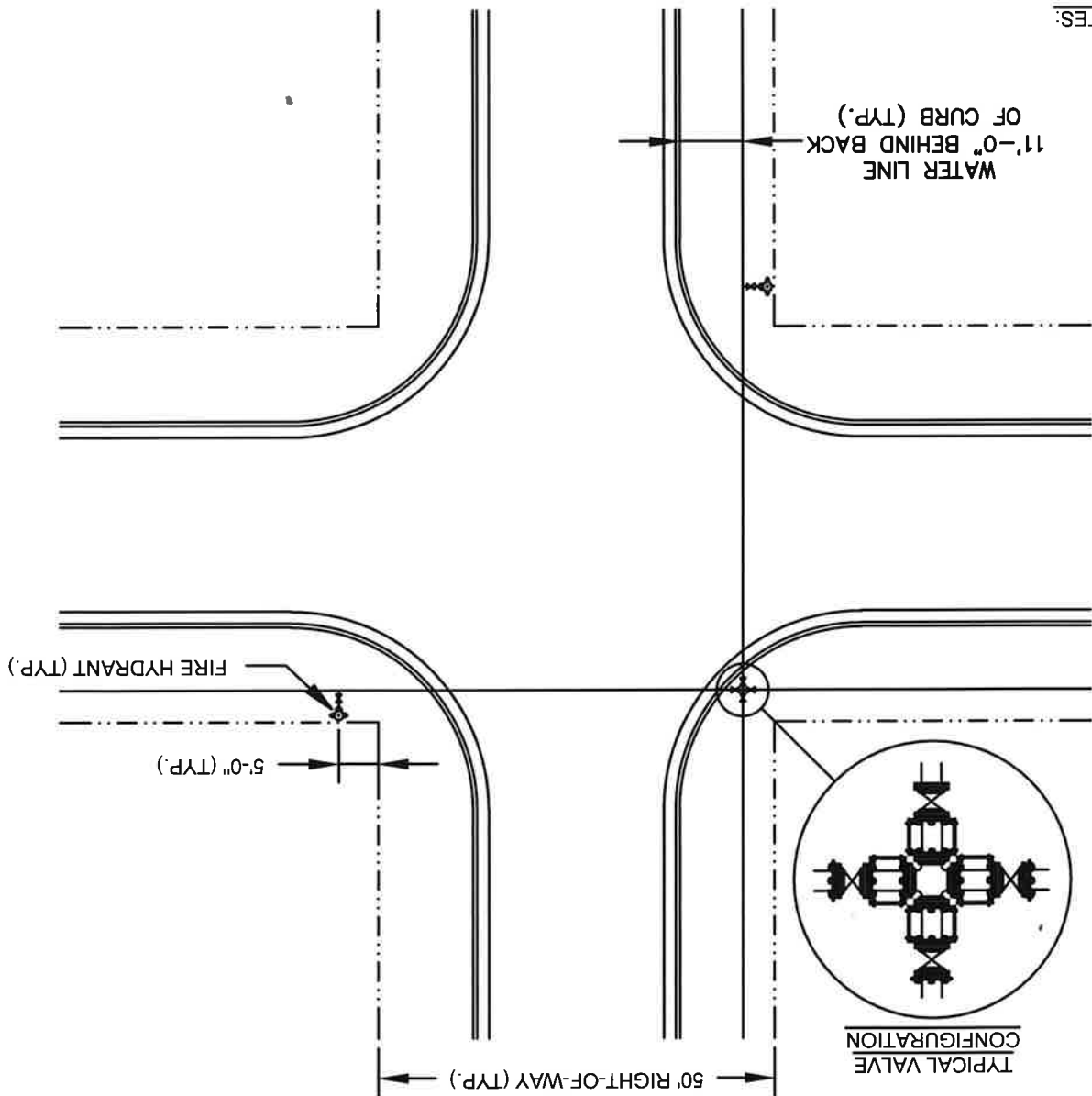
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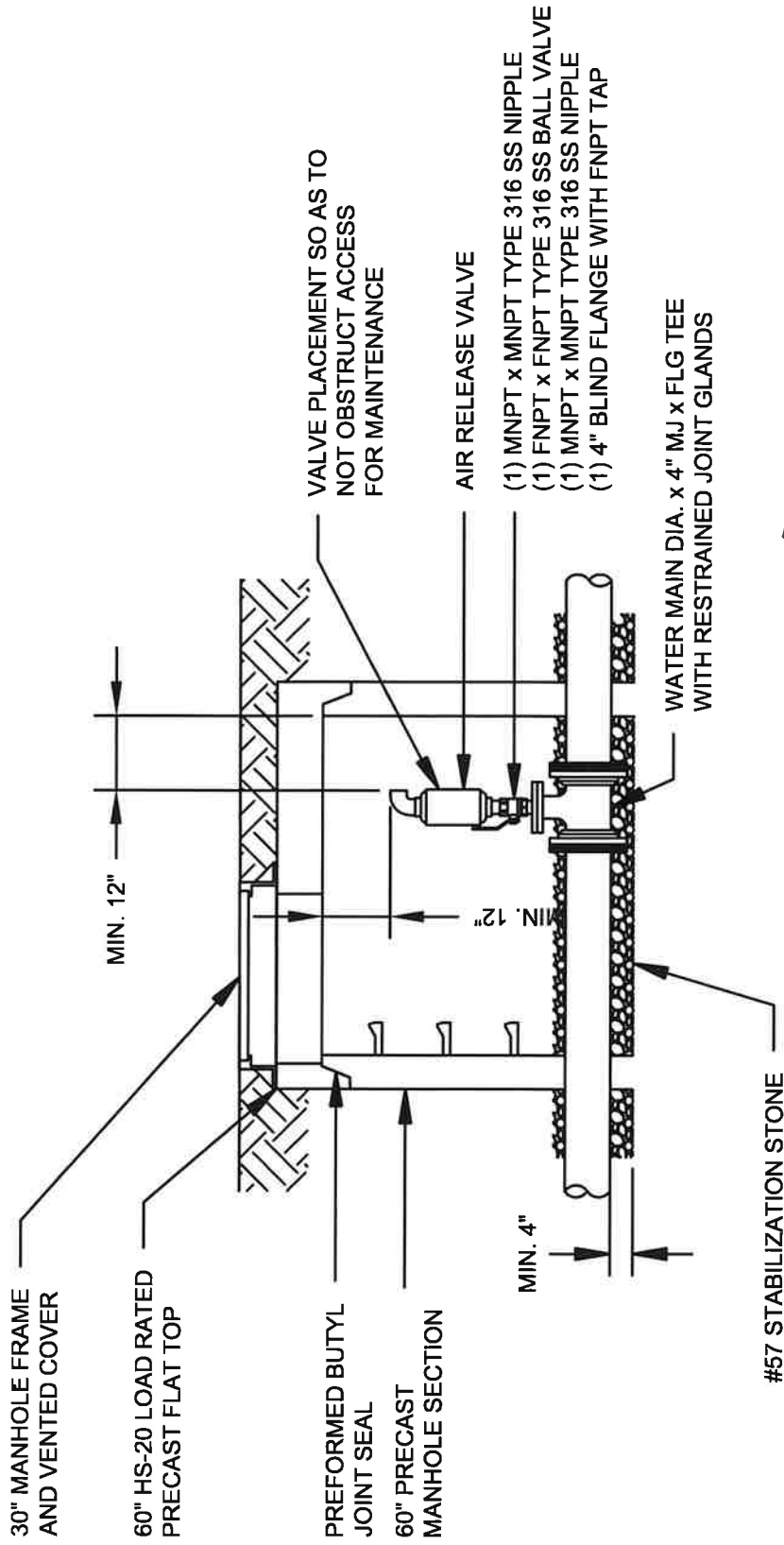
SCALE: N.T.S.

REVISED: 09/30/2022

1. WHERE EXISTING STRUCTURES EXIST AND INTERFERE WITH THE ROUTE OF THE WATER LINE, THE WATER LINE SHALL BE ROUTED AROUND THE STRUCTURE BY PIPE JOINT DEFLECTION OR, WHERE NECESSARY, WITH MAXIMUM 45° BENDS.
2. VALVES AT CROSS CONNECTIONS SHALL BE RODDED TO THE FITTING USING A MINIMUM OF TWO ¾" THREADED RODS. THE MJ FLANGE ON THE OPPOSITE SIDE OF THE FITTING SHALL BE RESTRAINED USING A MEGALUG.

NOTES:





CITY OF HAMPTON



# WATER MAIN COMBINATION AIR/VACUUM VALVE

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

W10



# CONCRETE THRUST BLOCK

W11

DETAIL NO.

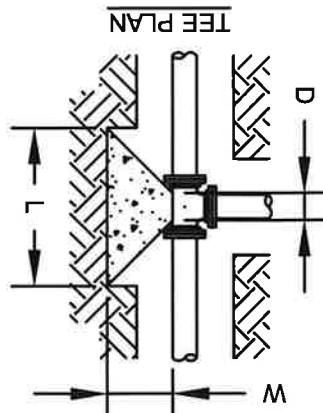
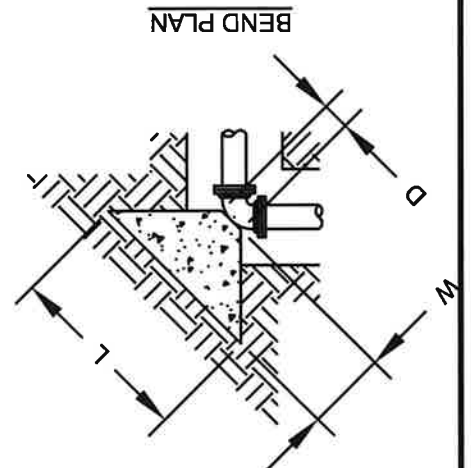
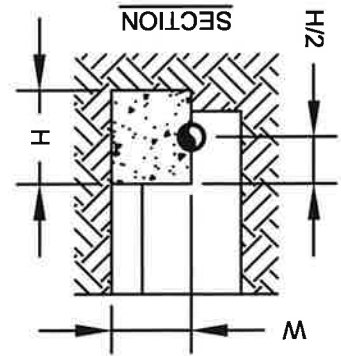
SCALE: N.T.S.

REVISED: 09/30/2022

CITY OF HAMPTON

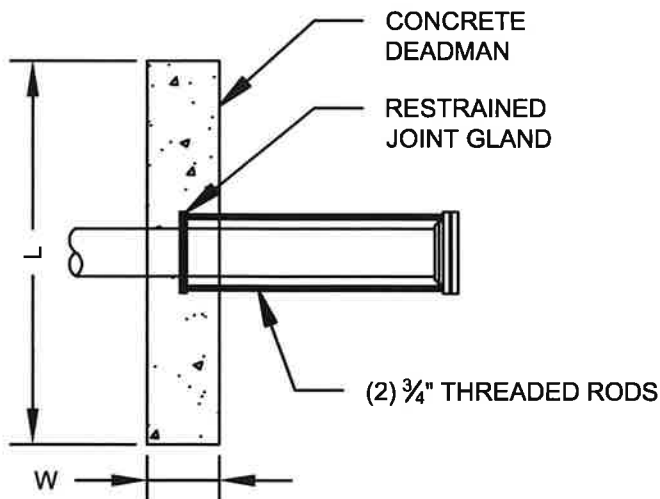
1. THRUST BLOCK DIMENSIONS ARE BASED ON THE FOLLOWING DESIGN CRITERIA.
  2. THRUST BLOCK CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI.
  3. THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED SOIL.
  4. A MINIMUM 10 MIL PLASTIC SHEET SHALL BE PLACED BETWEEN CONCRETE AND PIPE.
  5. ALL BOLTS SHALL REMAIN ACCESSIBLE. DO NOT COVER WITH CONCRETE.
- THESE ARE THE MINIMUM DESIGN CRITERIA. IF ACTUAL WORKING PRESSURE IS GREATER THAN 150 PSI OR IF ACTUAL SOIL BEARING CAPACITY IS LESS THAN 1,500 PSF, DIMENSIONS SHALL BE RECALCULATED.
- WORKING PRESSURE = 150 PSI  
SOIL BEARING CAPACITY = 1,500 PSF  
SAFETY FACTOR = 1.5

## NOTES:

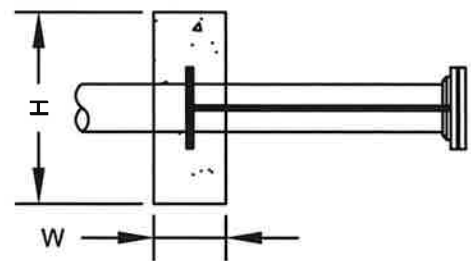


| PIPE DIA. (IN) | D     | L     | H     | W     | CONC. VOLUME (YD <sup>3</sup> ) | THRUST (LBF) |
|----------------|-------|-------|-------|-------|---------------------------------|--------------|
| 4              | 0.6"  | 2.4"  | 1.2"  | 0.11" | 0.06                            | 4,072        |
| 6              | 0.8"  | 3.4"  | 1.8"  | 1.4"  | 0.16                            | 8,413        |
| 8              | 0.9"  | 4.5"  | 2.3"  | 1.10" | 0.39                            | 14,473       |
| 10             | 0.11" | 5.5"  | 2.9"  | 2.3"  | 0.73                            | 21,773       |
| 12             | 1.1"  | 6.5"  | 3.3"  | 2.8"  | 1.20                            | 30,791       |
| 90° BENDS      |       |       |       |       |                                 |              |
| 4              | 0.5"  | 2.9"  | 1.5"  | 1.2"  | 0.10                            | 5,758        |
| 6              | 0.8"  | 4.0"  | 2.0"  | 1.8"  | 0.29                            | 11,898       |
| 8              | 0.9"  | 5.3"  | 2.8"  | 2.3"  | 0.67                            | 20,468       |
| 10             | 0.11" | 6.5"  | 3.3"  | 2.9"  | 1.21                            | 30,792       |
| 12             | 1.1"  | 8.7"  | 3.10" | 3.3"  | 2.00                            | 43,545       |
| 45° BENDS      |       |       |       |       |                                 |              |
| 4              | 0.4"  | 2.0"  | 1.0"  | 0.10" | 0.04                            | 3,116        |
| 6              | 0.7"  | 2.1"  | 1.6"  | 1.2"  | 0.11                            | 6,439        |
| 8              | 0.8"  | 3.10" | 1.1"  | 1.7"  | 0.25                            | 11,077       |
| 10             | 0.11" | 4.9"  | 2.5"  | 1.1"  | 0.49                            | 16,664       |
| 12             | 1.1"  | 6.7"  | 2.10" | 2.3"  | 0.79                            | 23,566       |
| 22½° BENDS     |       |       |       |       |                                 |              |
| 4              | 0.5"  | 1.5"  | 0.9"  | 0.6"  | 0.01                            | 1,589        |
| 6              | 0.7"  | 2.1"  | 1.1"  | 0.9"  | 0.04                            | 3,283        |
| 8              | 0.9"  | 2.9"  | 1.5"  | 1.0"  | 0.09                            | 5,647        |
| 10             | 0.10" | 3.4"  | 1.8"  | 1.3"  | 0.16                            | 8,495        |
| 12             | 1.0"  | 4.0"  | 2.0"  | 1.6"  | 0.28                            | 12,014       |

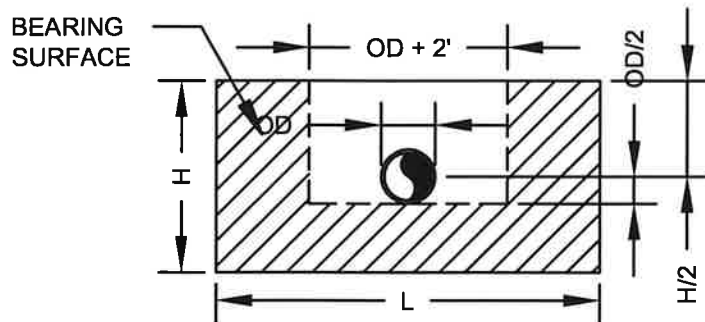
TEES



PLAN



SECTION



| DEADMAN DIMENSION |        |        |        |                                 |              |
|-------------------|--------|--------|--------|---------------------------------|--------------|
| PIPE DIA. (IN)    | L DIM. | H DIM. | W DIM. | CONC. VOLUME (YD <sup>3</sup> ) | THRUST (LBF) |
| 4                 | 3'-0"  | 1'-7"  | 1'-0"  | 0.18                            | 4,072        |
| 6                 | 4'-3"  | 2'-1"  | 1'-0"  | 0.33                            | 8,413        |
| 8                 | 5'-4"  | 2'-8"  | 1'-0"  | 0.53                            | 14,473       |
| 10                | 6'-0"  | 3'-6"  | 1'-0"  | 0.78                            | 21,773       |
| 12                | 7'-1"  | 4'-0"  | 1'-0"  | 1.05                            | 30,791       |

NOTES:

1. DEADMAN DIMENSIONS ARE BASED ON THE FOLLOWING DESIGN CRITERIA.

WORKING PRESSURE = 150 PSI  
 SOIL BEARING CAPACITY = 1,500 PSF  
 SAFETY FACTOR = 1.5

THESE ARE THE MINIMUM DESIGN CRITERIA. IF ACTUAL WORKING PRESSURE IS GREATER THAN 150 PSI OR IF ACTUAL SOIL BEARING CAPACITY IS LESS THAN 1,500 PSF, DIMENSIONS SHALL BE RECALCULATED.

2. DEADMAN CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI.
3. DEADMAN SHALL BEAR AGAINST UNDISTURBED SOIL.
4. A MINIMUM 10 MIL PLASTIC SHEET SHALL BE PLACED BETWEEN CONCRETE AND PIPE.
5. ALL BOLTS SHALL REMAIN ACCESSIBLE. DO NOT COVER WITH CONCRETE.



CITY OF HAMPTON

# CONCRETE DEADMAN

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**W12**



# THRUST RESTRAINT

CITY OF HAMPTON

W13

DETAIL NO.

SCALE: N.T.S.

REVISED: 09/30/2022

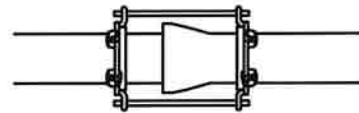
## NOTES:

1. RESTRAINED JOINT LENGTHS SHALL BE CALCULATED BY THE DESIGN ENGINEER. CALCULATIONS SHALL BE SUBMITTED TO CITY OF HAMPTON.
2. THREADED ROD SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI.

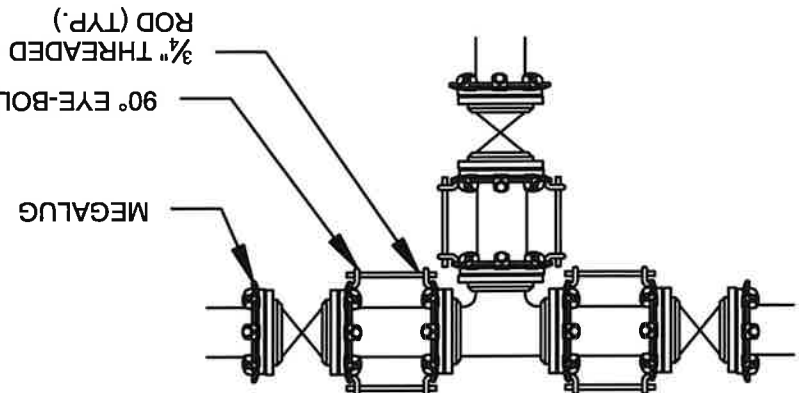
TIE-ROD CHART

| DEADMAN DIMENSION |        |        |        |                                 |              |
|-------------------|--------|--------|--------|---------------------------------|--------------|
| PIPE DIA. (IN)    | L DIM. | H DIM. | W DIM. | CONC. VOLUME (YD <sup>3</sup> ) | THRUST (LBF) |
| 12                | 7'-1"  | 4'-0"  | 1'-0"  | 1.05                            | 30,791       |
| 10                | 6'-0"  | 3'-6"  | 1'-0"  | 0.78                            | 21,773       |
| 8                 | 5'-4"  | 2'-8"  | 1'-0"  | 0.53                            | 14,473       |
| 6                 | 4'-3"  | 2'-1"  | 1'-0"  | 0.33                            | 8,413        |
| 4                 | 3'-0"  | 1'-7"  | 1'-0"  | 0.18                            | 4,072        |

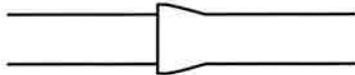
TIE-RODS FROM RESTRAINED JOINT GLAND TO RESTRAINED JOINT GLAND



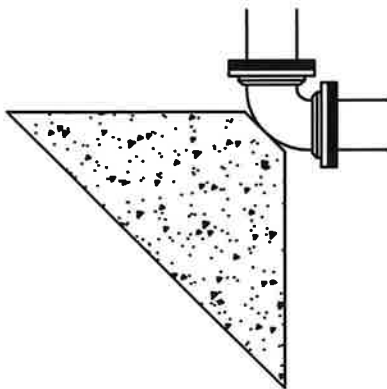
FITTING WITH TIE-RODS AND MEGALUGS

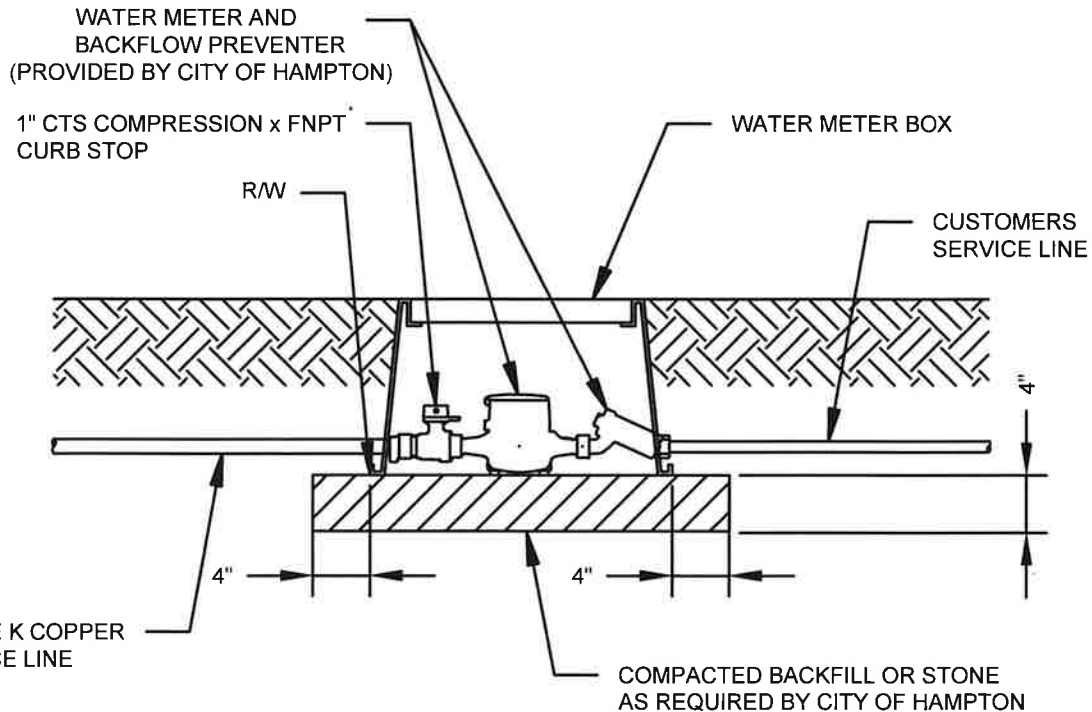


PUSH-ON JOINT WITH RESTRAINED JOINT GASKET



FITTING WITH RESTRAINED JOINT GLAND AND THRUST BLOCK





**NOTES:**

1. CITY OF HAMPTON WILL PROVIDE RESIDENTIAL WATER METERS AND BACKFLOW PREVENTERS. ALL OTHER APPURTENANCES SHALL BE PROVIDED BY THE DEVELOPER AND/OR CONTRACTOR.
2. WATER METER BOX LIDS SHALL HAVE 2-INCH DIAMETER HOLE OFFSET FOR TOUCH READ INSTALLATION.
3. EACH SERVICE SHALL BE MARKED WITH A "W" SAW CUT INTO TOP OF CURB AND PAINTED BLUE.
4. INSERT A 4-FOOT LONG PIECE OF 1" PVC PIPE THROUGH THE HOLE IN THE METER BOX LID TO MARK THE METER LOCATION. PAINT PVC PIPE BLUE.
5. NO PERMANENT STRUCTURES SHALL BE LOCATED WITHIN 5 FEET OF WATER SERVICE.
6. TYPICAL INSTALLATION MAY BE MODIFIED AT DISCRETION OF CITY OF HAMPTON.



CITY OF HAMPTON

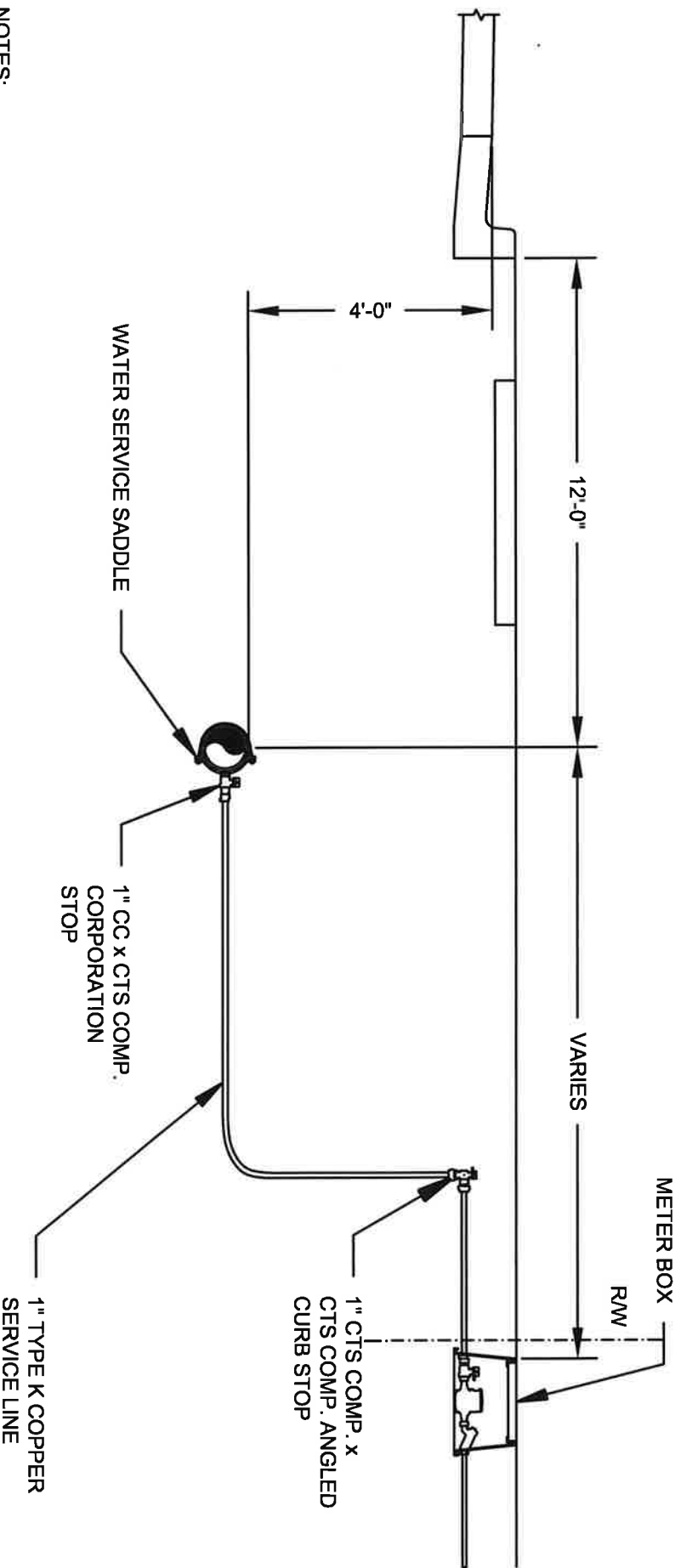
# RESIDENTIAL WATER METER DETAIL

REVISED: 12/07/2022

SCALE: N.T.S.

DETAIL NO.

**W14**



**NOTES:**

1. EACH SERVICE SHALL BE MARKED WITH A "W" SAW CUT INTO TOP OF CURB AND PAINTED BLUE.
2. INSERT A 4-FOOT LONG PIECE OF 1" PVC PIPE THROUGH THE HOLE IN THE METER BOX LID TO MARK THE METER LOCATION. PAINT PVC PIPE BLUE.
3. NO PERMANENT STRUCTURES SHALL BE ALLOWED WITHIN 5 FEET OF WATER SERVICE.
4. TYPICAL INSTALLATION MAY BE MODIFIED AT THE DISCRETION OF CITY OF HAMPTON.



CITY OF HAMPTON

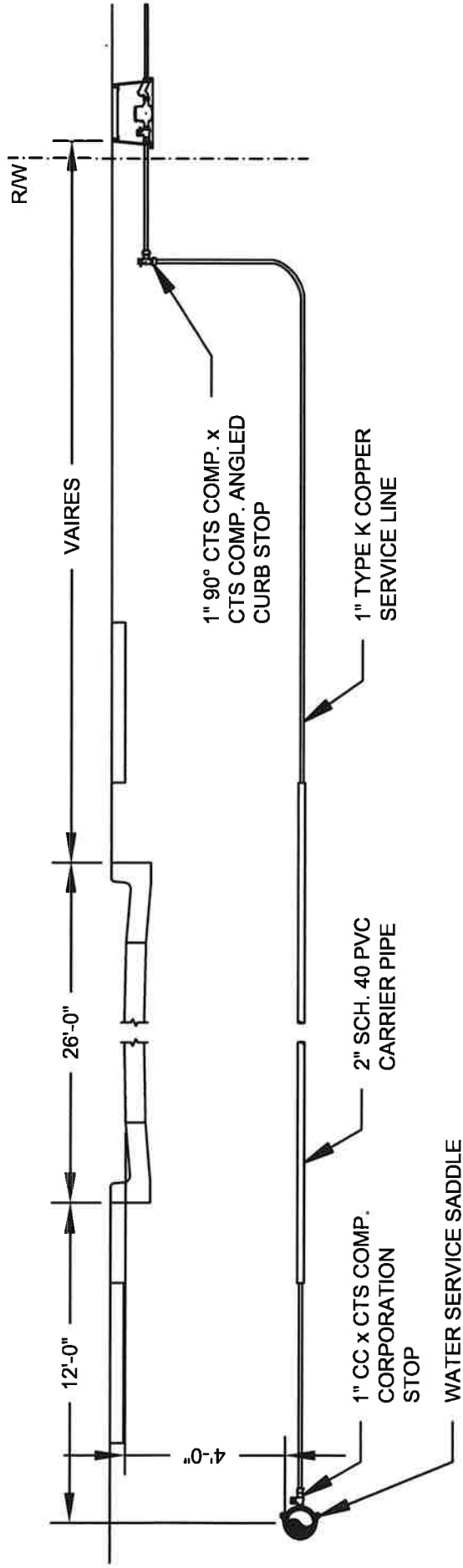
# SHORT SIDE RESIDENTIAL SERVICE DETAIL

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

W15



**NOTES:**

1. EACH SERVICE SHALL BE MARKED WITH A "W" SAW CUT INTO TOP OF CURB AND PAINTED BLUE.
2. INSERT A 4-FOOT LONG PIECE OF 1" PVC PIPE THROUGH THE HOLE IN THE METER BOX LID TO MARK THE METER LOCATION. PAINT PVC PIPE BLUE.
3. NO PERMANENT STRUCTURE SHALL BE ALLOWED WITHIN 5 FEET OF WATER SERVICE.
4. TYPICAL INSTALLATION MAY BE MODIFIED AT THE DISCRETION OF CITY OF HAMPTON.



CITY OF HAMPTON

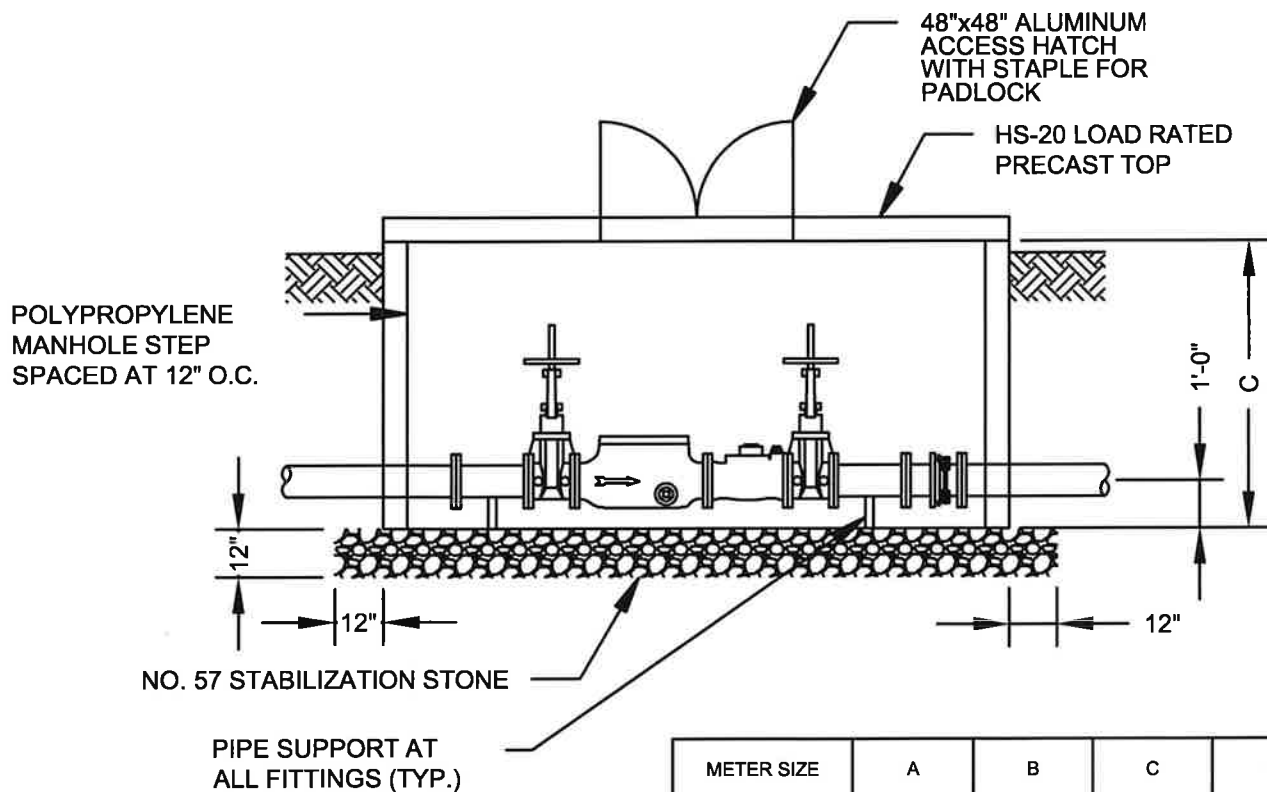
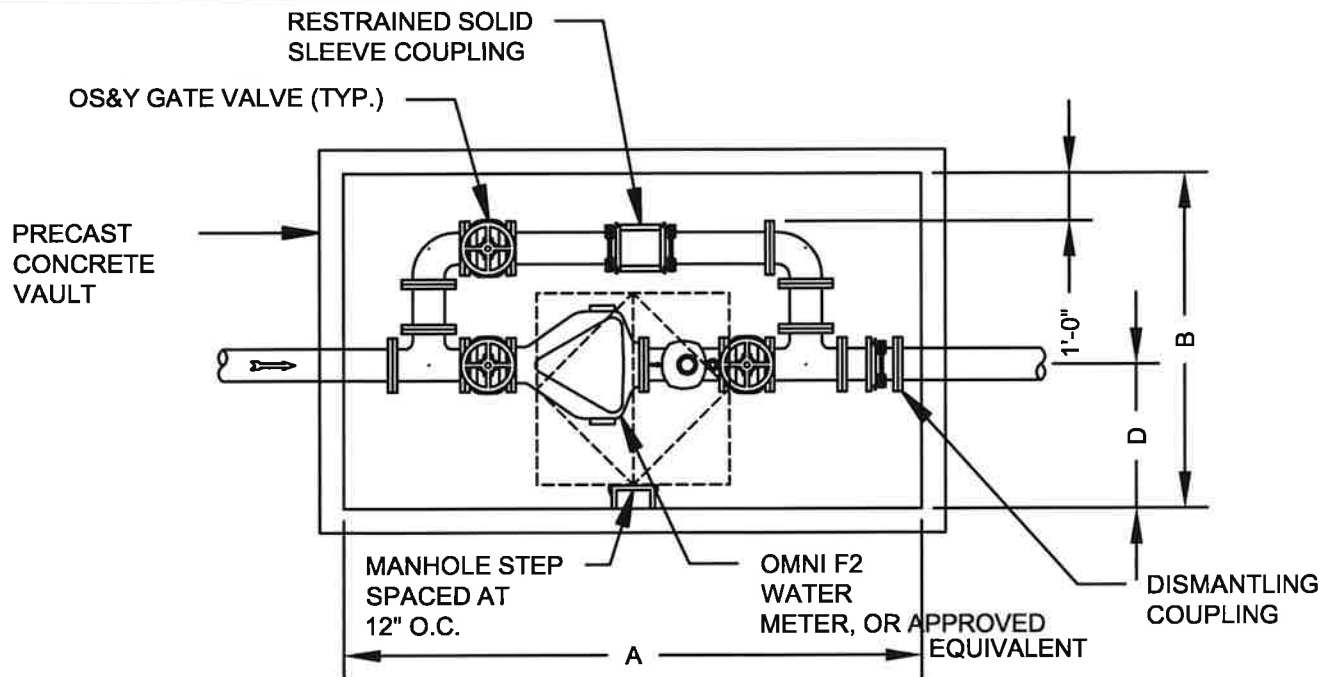
# LONG SIDE RESIDENTIAL SERVICE DETAIL

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**W16**



| METER SIZE | A      | B     | C     | D     |
|------------|--------|-------|-------|-------|
| 4"         | 12'-0" | 6'-0" | 6'-0" | 2'-0" |
| 6"         | 12'-0" | 6'-0" | 6'-0" | 2'-0" |
| 8"         | 12'-0" | 7'-0" | 6'-0" | 3'-0" |



CITY OF HAMPTON

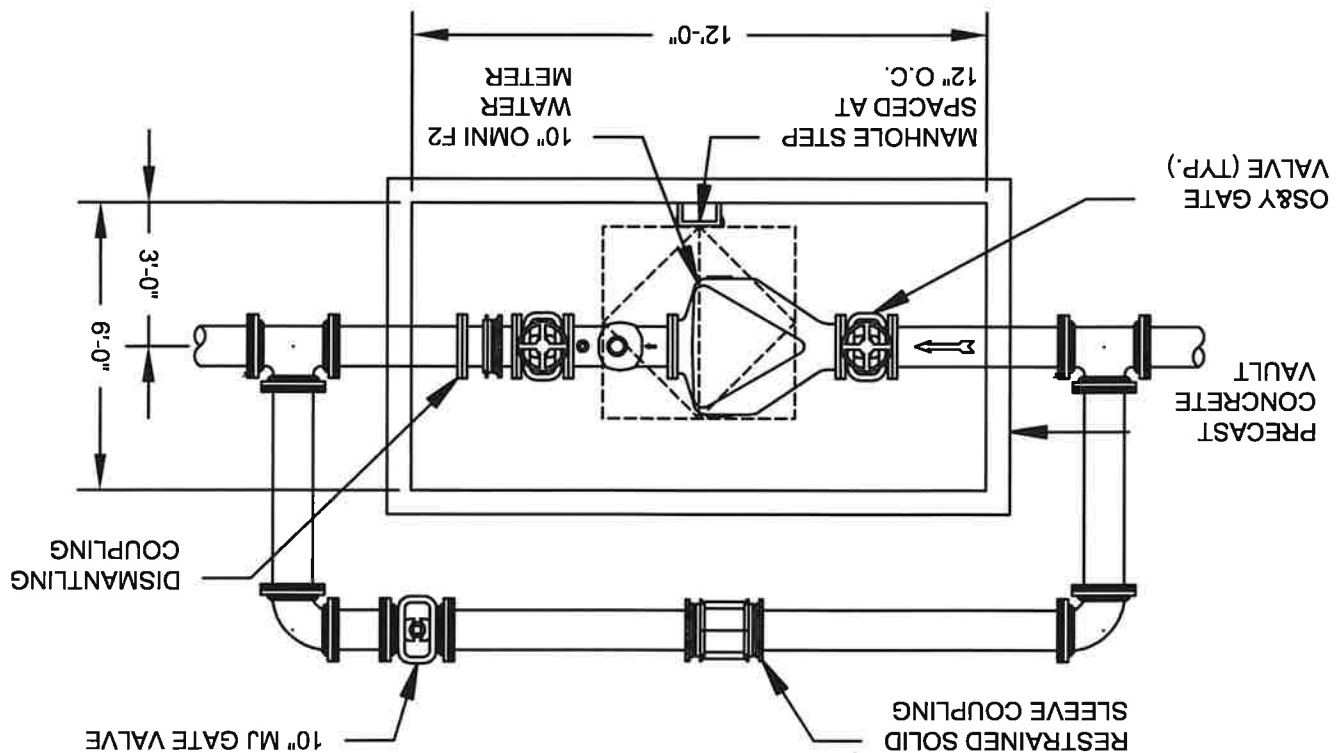
# 4", 6", AND 8" OMNI F2 FIRELINE METER

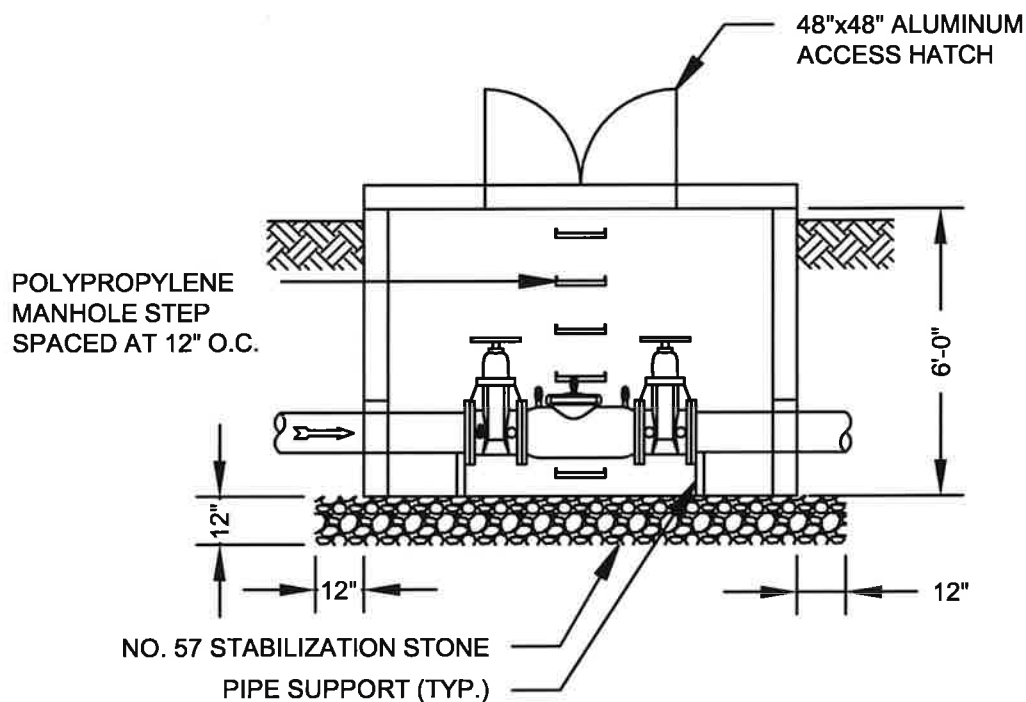
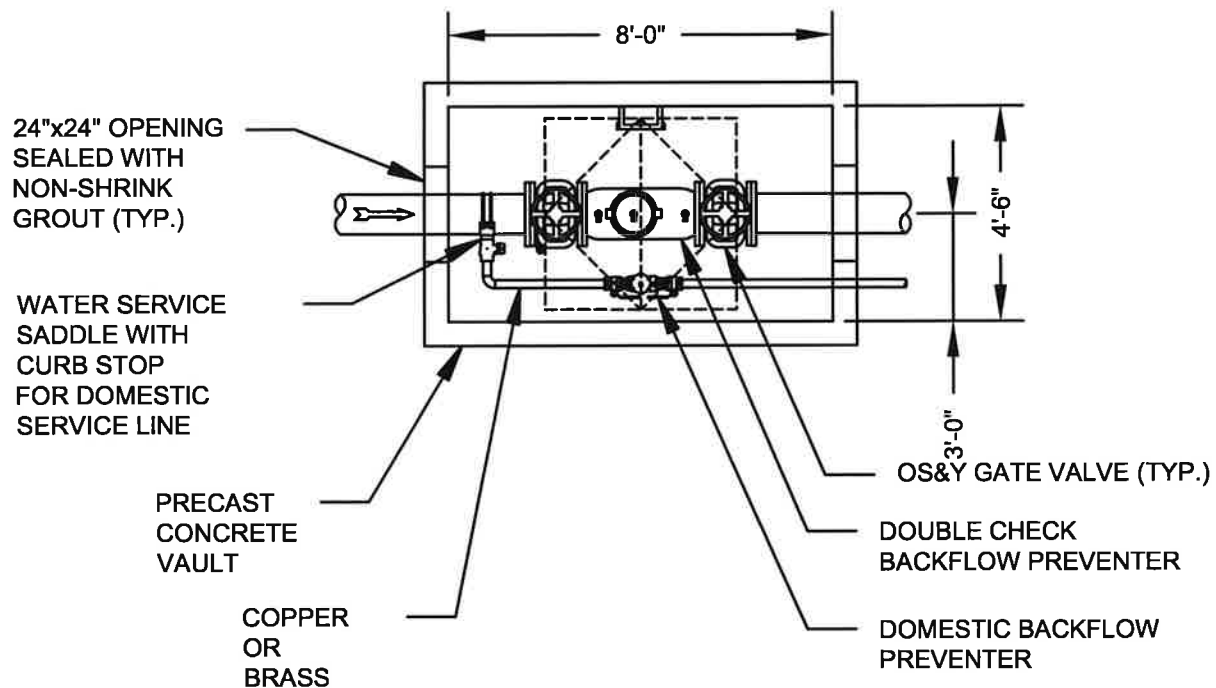
REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**W17**





CITY OF HAMPTON

# INDUSTRIAL BACKFLOW PREVENTER (4" AND LARGER)

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**W19**



# COMMERCIAL BACKFLOW PREVENTER (4" AND LARGER)

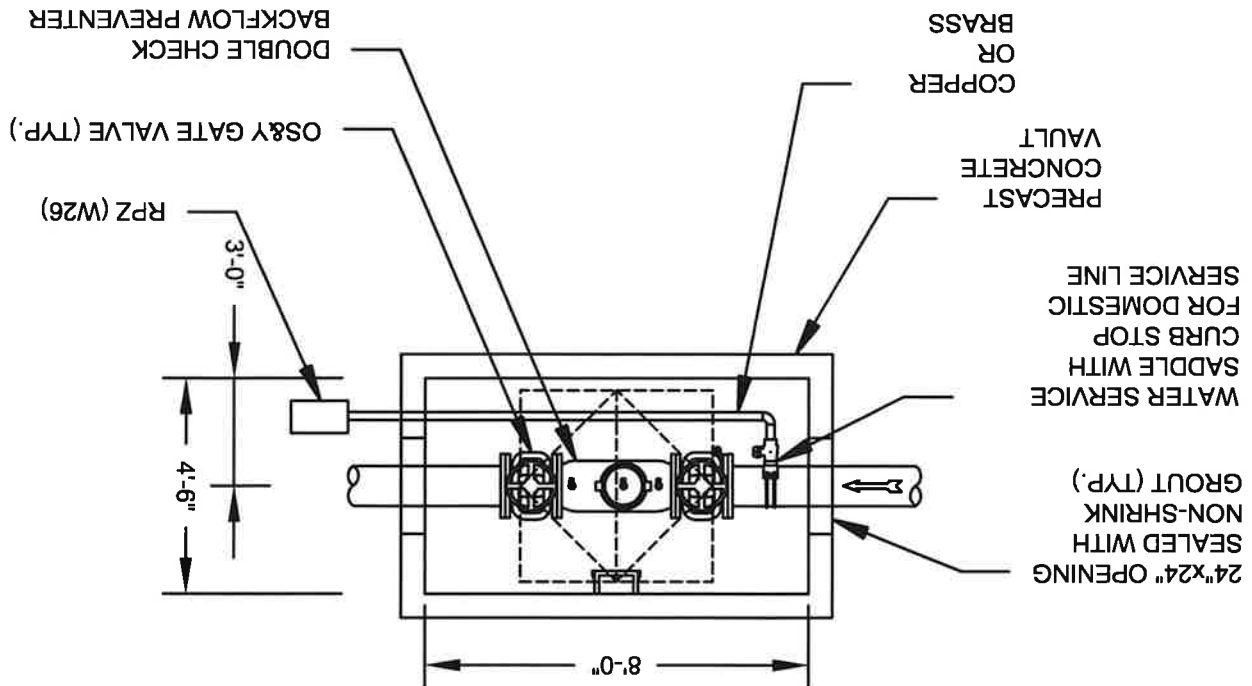
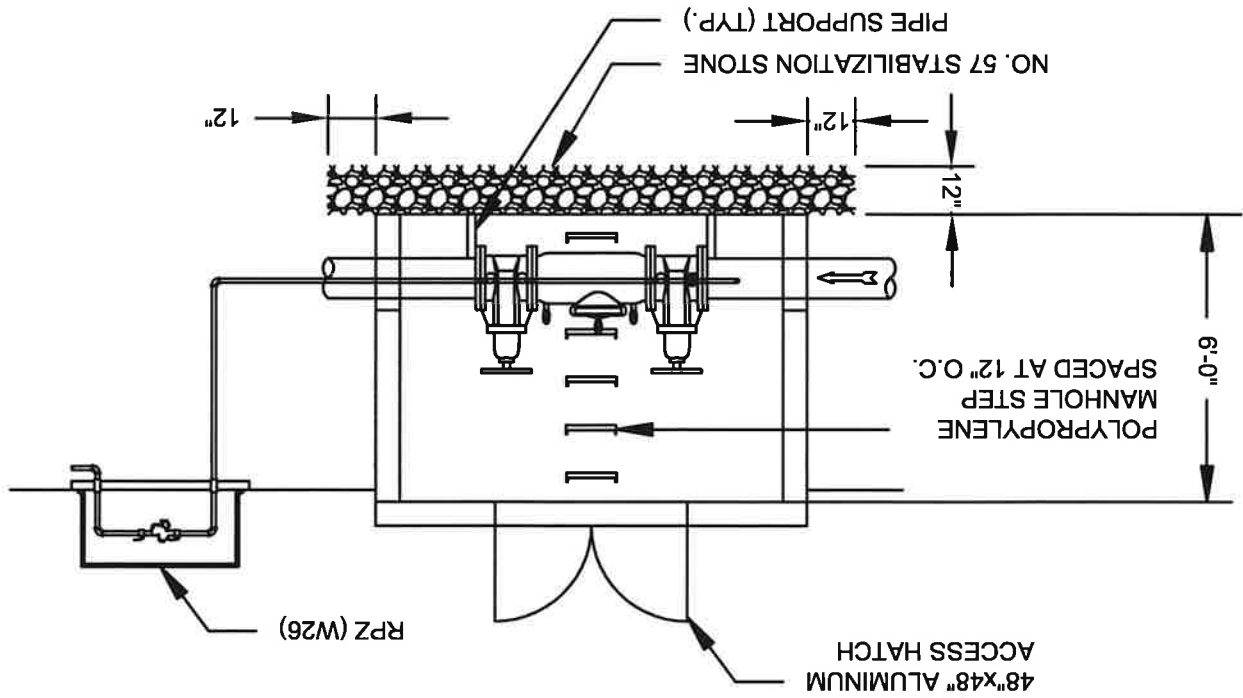
CITY OF HAMPTON

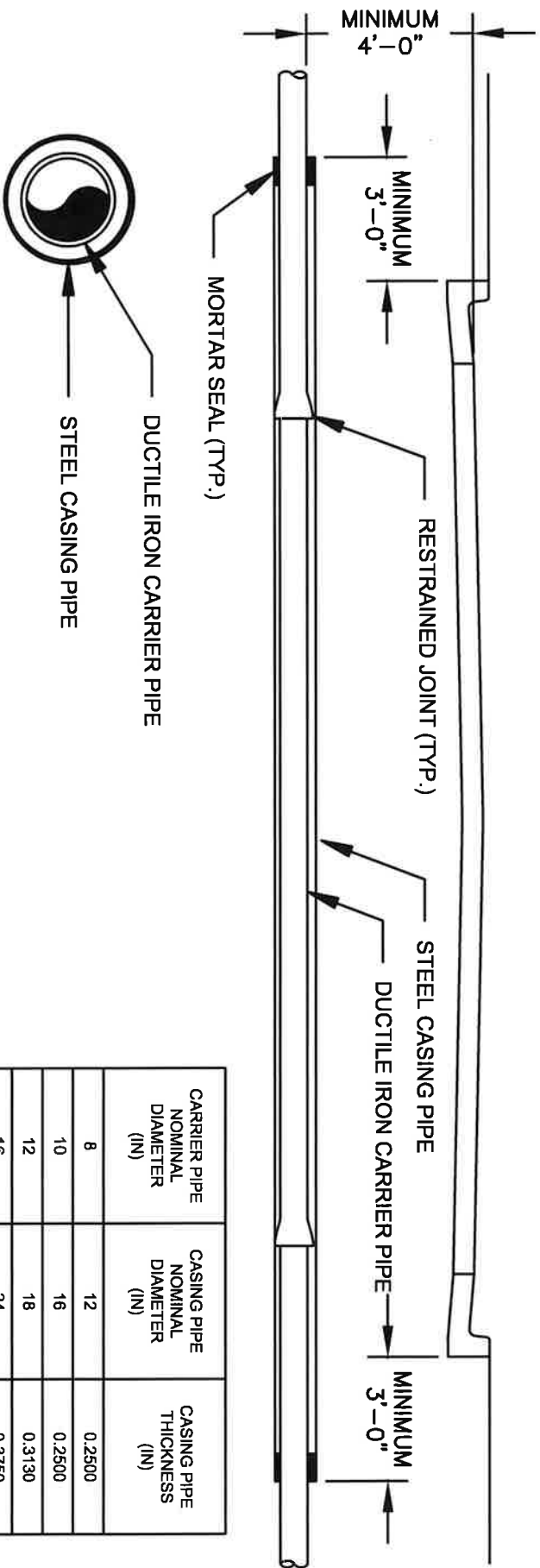
W20

DETAIL NO.

SCALE: N.T.S.

REVISED: 09/30/2022





| CARRIER PIPE<br>NOMINAL<br>DIAMETER<br>(IN) | CASING PIPE<br>NOMINAL<br>DIAMETER<br>(IN) | CASING PIPE<br>THICKNESS<br>(IN) |
|---------------------------------------------|--------------------------------------------|----------------------------------|
| 8                                           | 12                                         | 0.2500                           |
| 10                                          | 16                                         | 0.2500                           |
| 12                                          | 18                                         | 0.3130                           |
| 16                                          | 24                                         | 0.3750                           |

**NOTES:**

1. JOINTS INSIDE CASING PIPE SHALL BE RESTRAINED, AND CASING SPACERS TO BE INSTALLED @ 10' O.C.
2. ENDS OF CASING PIPE SHALL BE SEALED WITH CEMENT MORTAR OR AS APPROVED BY CITY OF HAMPTON.
3. ALL CITY/COUNTY ROAD CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH HENRY COUNTY DOT STANDARDS AND PERMIT REQUIREMENTS.
4. ALL STATE HIGHWAY CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH GEORGIA DOT STANDARDS AND PERMIT REQUIREMENTS.
5. ALL RAILROAD CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION REGULATIONS AND IN ACCORDANCE WITH PERMIT REQUIREMENTS.

CITY OF HAMPTON



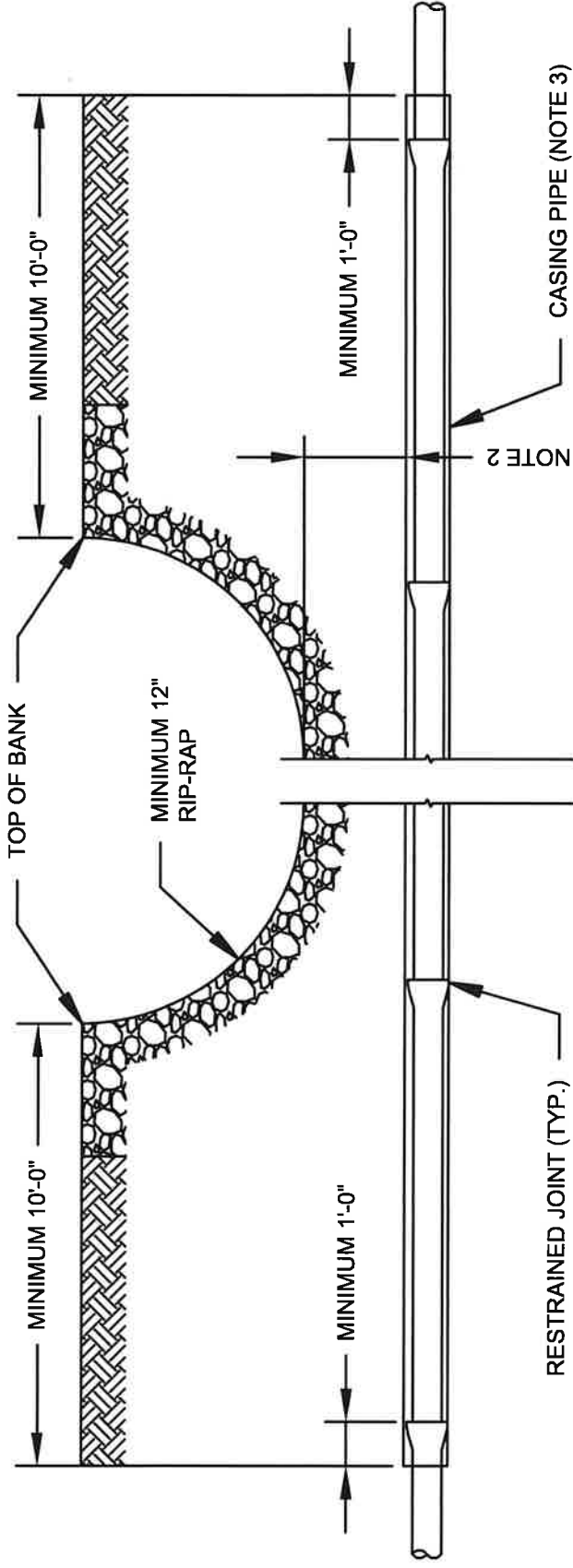
# TYPICAL JACK AND BORE DETAIL

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

W21



**NOTES:**

1. PIPE USED FOR CREEK CROSSINGS SHALL BE C900 PVC PIPE. ADDITIONAL RESTRAINT MAYBE REQUIRED BY CITY OF HAMPTON.
2. CASING PIPE IS REQUIRED FOR ALL CREEK CROSSINGS W/CASING SPACERS AT 10' O.C. MINIMUM 12" COVER TO TOP OF CASING.
3. REFER TO DETAIL W20 FOR CASING DIAMETER.
4. PLACE STONE RIP-RAP APPROXIMATELY 5 FEET UPSTREAM AND 5 FEET DOWNSTREAM FROM CENTERLINE OF PIPE ALONG CREEK BED.



CITY OF HAMPTON

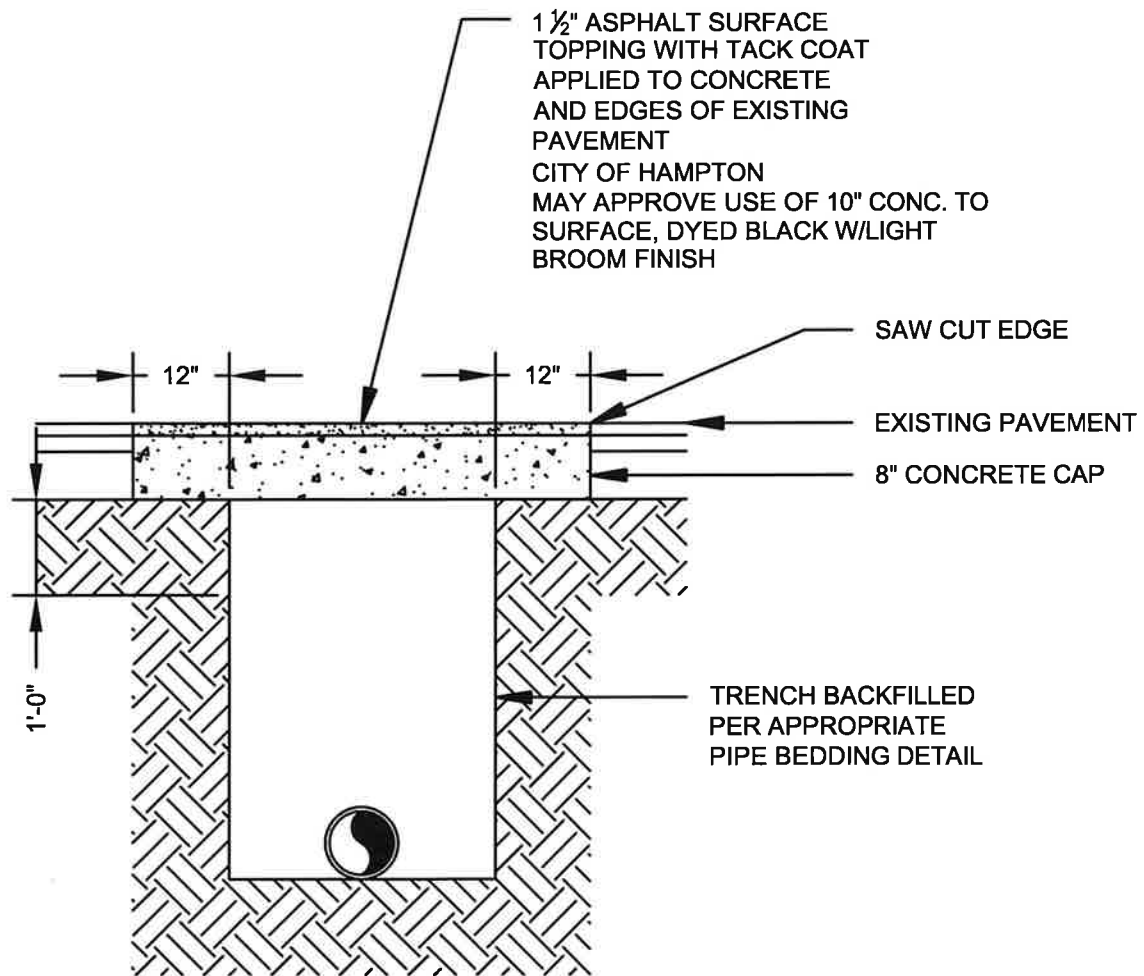
**CREEK CROSSING**

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**W22**



**NOTES:**

1. THIS DETAIL IS THE MINIMUM PAVEMENT REPAIR REQUIREMENT. HENRY COUNTY DOT OR GEORGIA DOT PAVEMENT REPAIR DETAILS SHALL SUPERCEDE THIS DETAIL AND SHALL BE USED WHERE APPLICABLE.
2. CONCRETE FOR CONCRETE CAP SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS.



CITY OF HAMPTON

**PAVEMENT REPAIR**

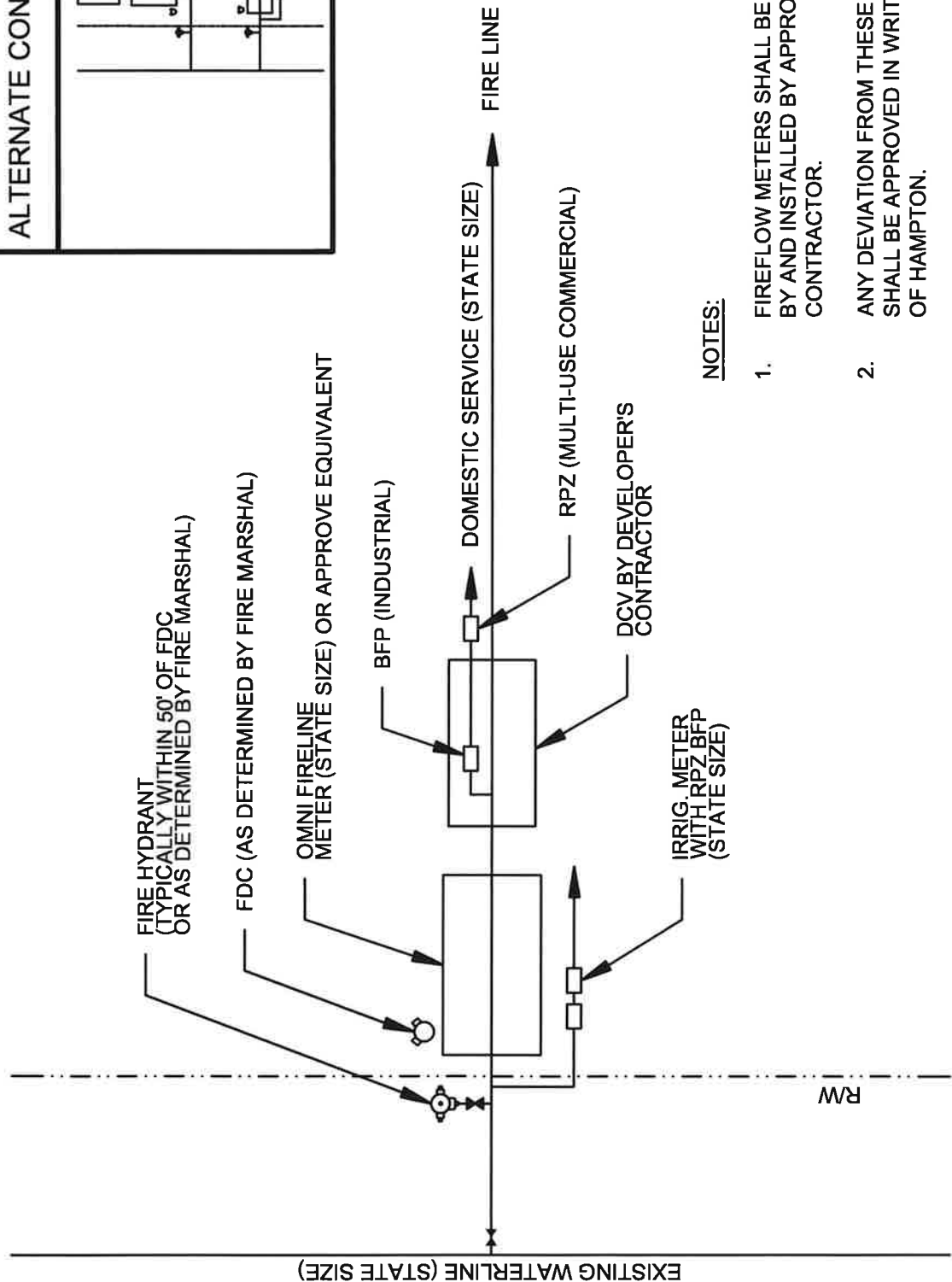
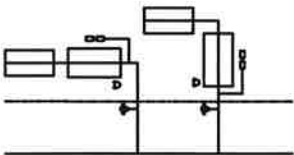
REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**W23**

# ALTERNATE CONFIGURATIONS



## NOTES:

1. FIREFLOW METERS SHALL BE PROVIDED BY AND INSTALLED BY APPROVED LICENSED CONTRACTOR.
2. ANY DEVIATION FROM THESE STANDARDS SHALL BE APPROVED IN WRITING BY THE CITY OF HAMPTON.

CITY OF HAMPTON



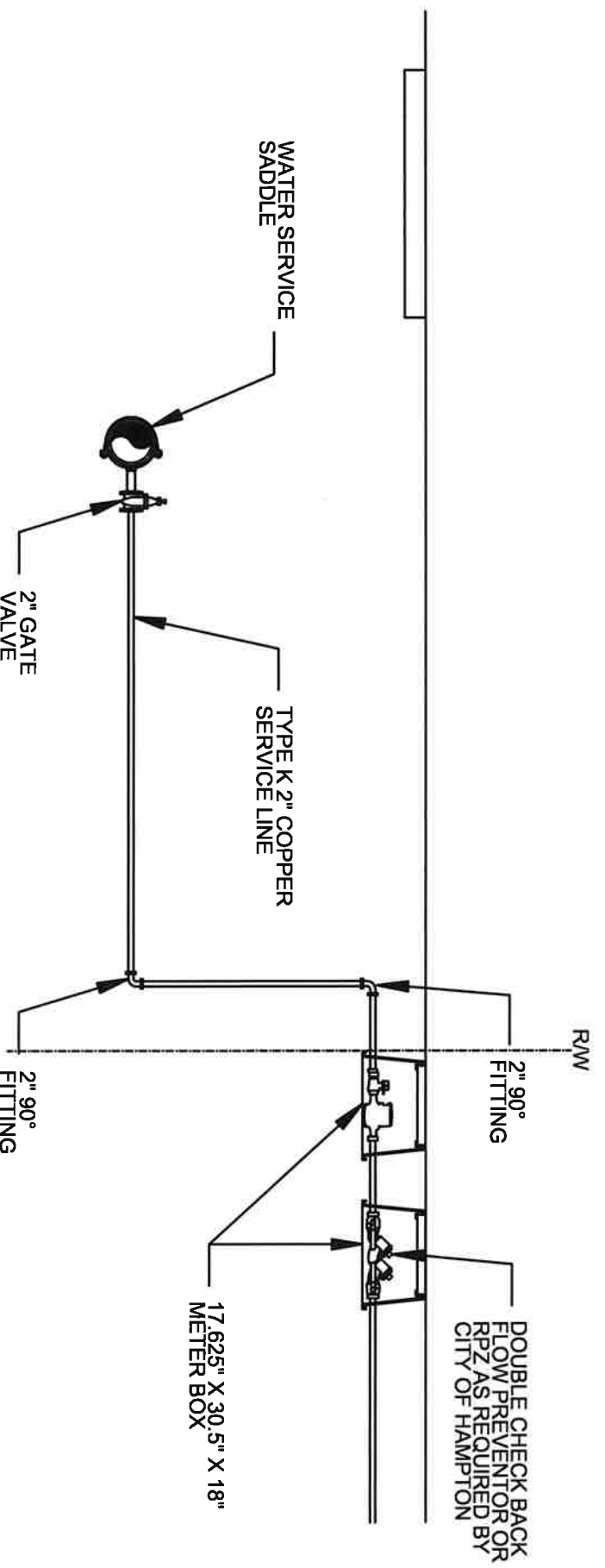
# TYPICAL COMMERCIAL / INDUSTRIAL METER CONFIGURATIONS

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

W24



**NOTES:**

1. NO PERMANENT STRUCTURES SHALL BE ALLOWED WITHIN 5 FEET OF WATER SERVICE.
2. TYPICAL INSTALLATION MAY BE MODIFIED AT THE DISCRETION OF CITY OF HAMPTON.



CITY OF HAMPTON

# 2" METER INSTALLATION DETAIL

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**W25**



# REDUCED PRESSURE ZONE DETAIL

CITY OF HAMPTON

W26

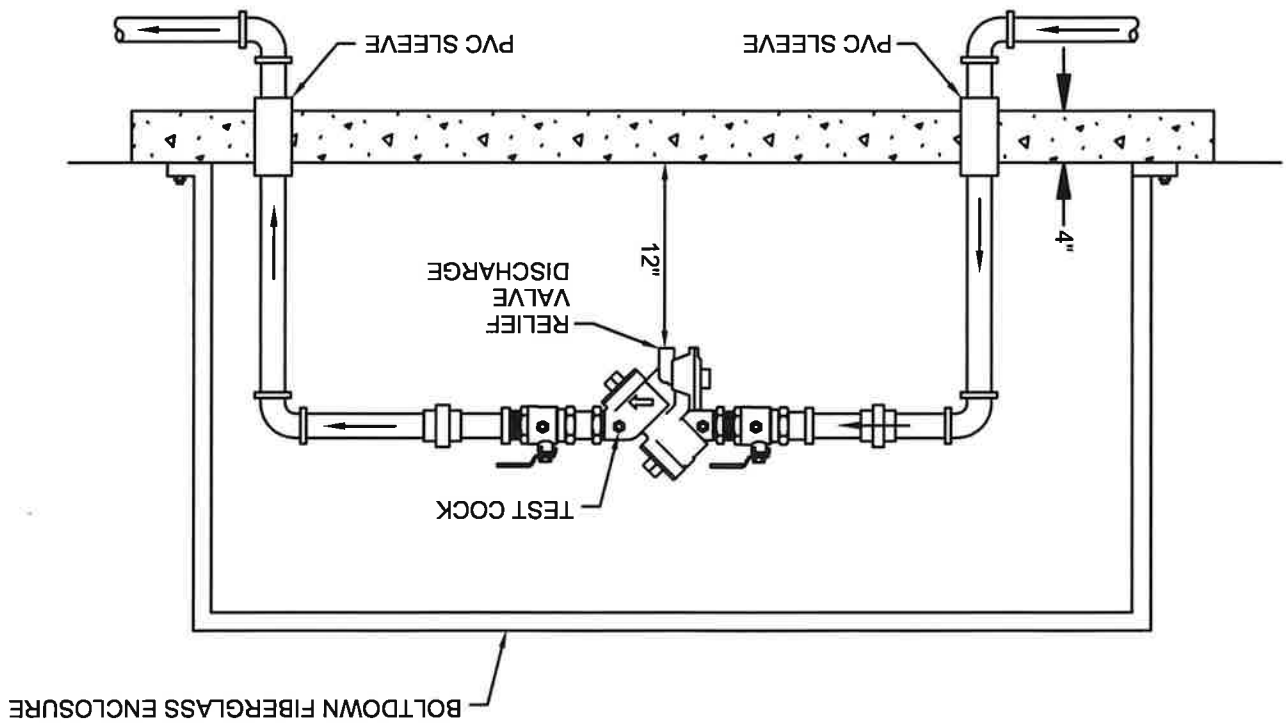
DETAIL NO.

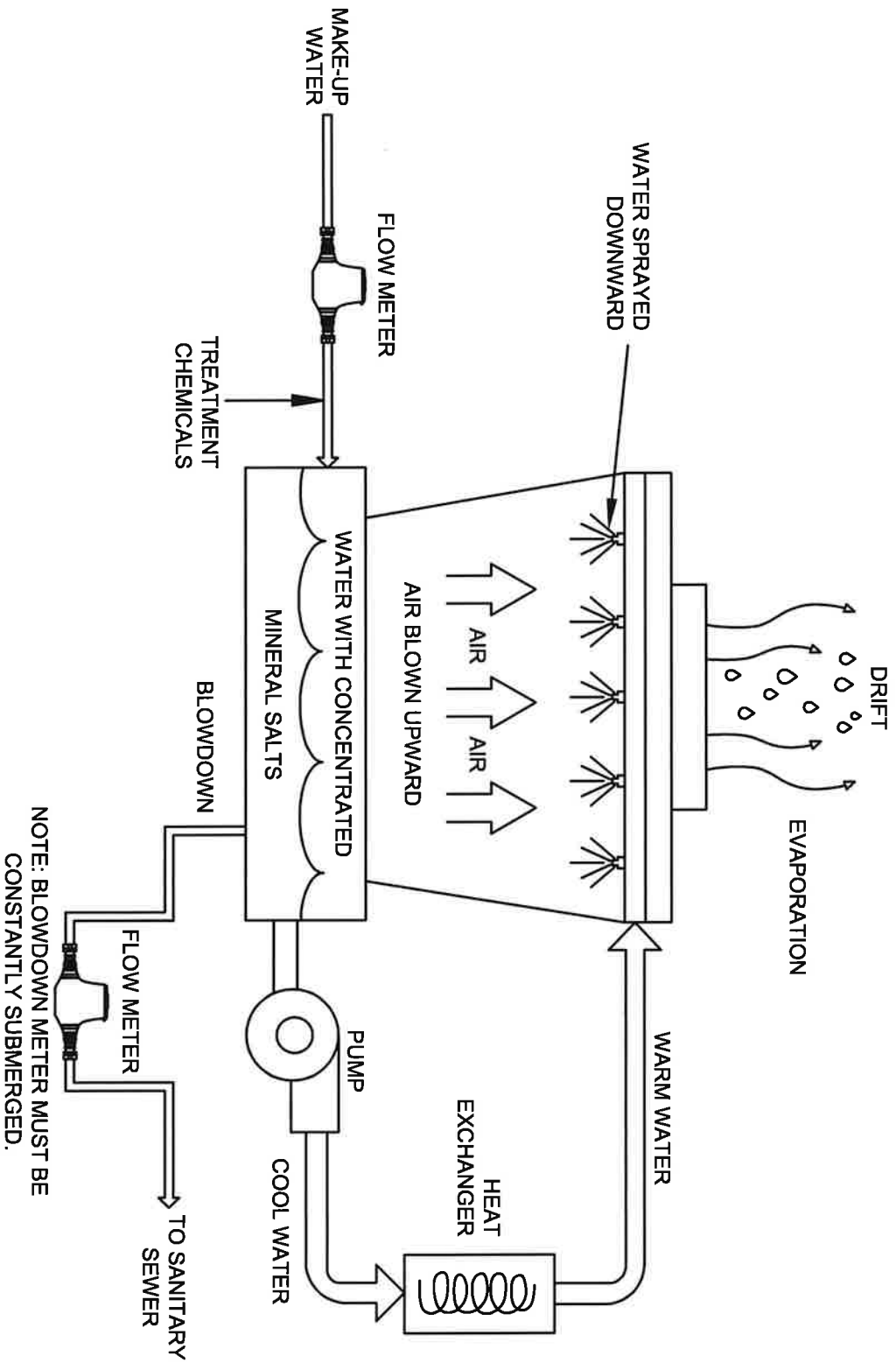
SCALE: N.T.S.

REVISED: 09/30/2022

1. NO PERMANENT STRUCTURES SHALL BE ALLOWED WITHIN 5 FEET.
2. TYPICAL INSTALLATION MAY BE MODIFIED AT THE DISCRETION OF CITY OF HAMPTON.
3. MINIMUM OF 4 TEST COCKS.

## NOTES:





NOTE: BLOWDOWN METER MUST BE CONSTANTLY SUBMERGED.



CITY OF HAMPTON

# COOLING TOWER METER CONFIGURATION

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

W27



# WATER METER LOCATION FOR SUBDIVISION

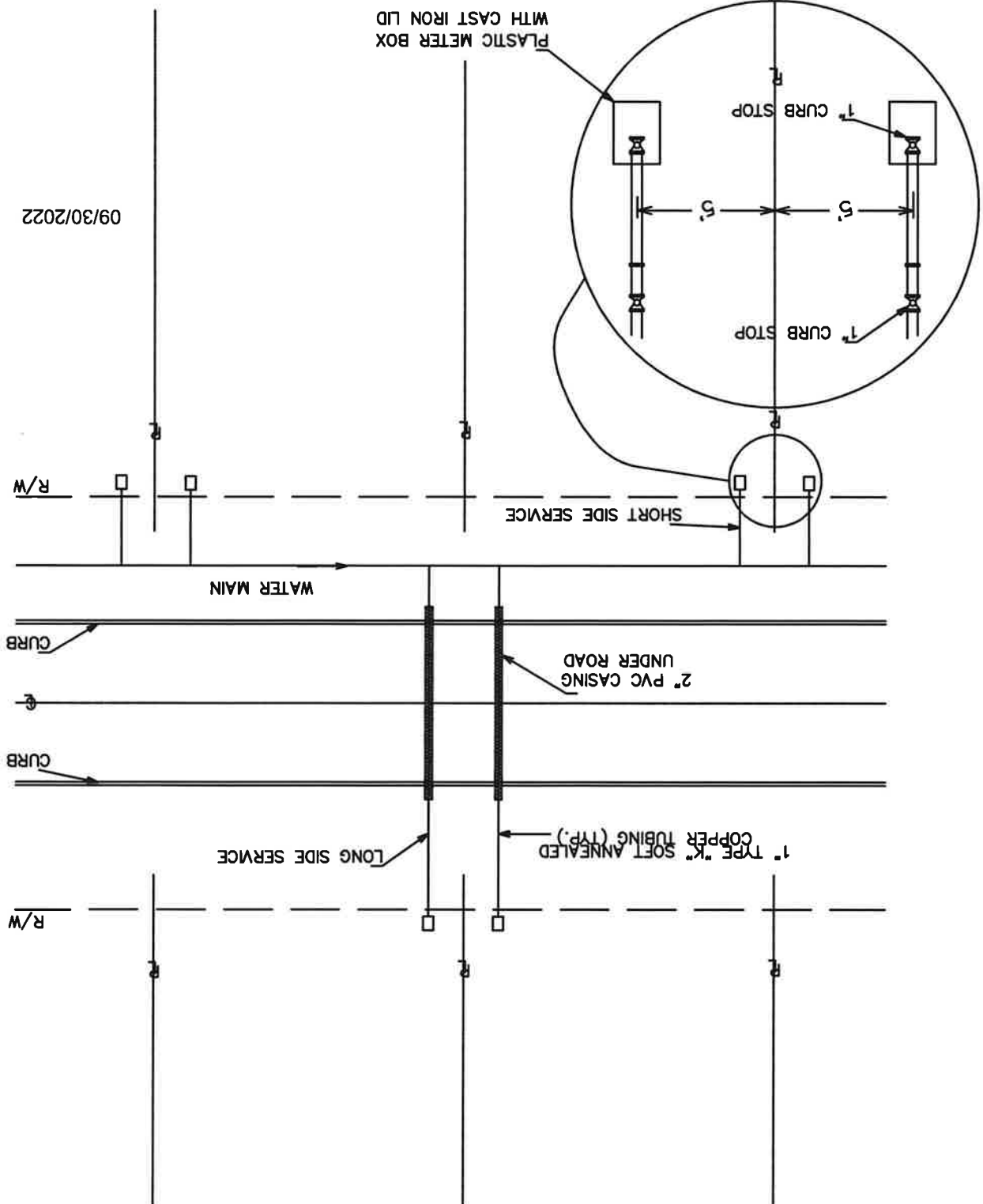
CITY OF HAMPTON

W28

DETAIL NO.

SCALE: N.T.S.

REVISED: 09/30/2022



“EXHIBIT B (S01)”



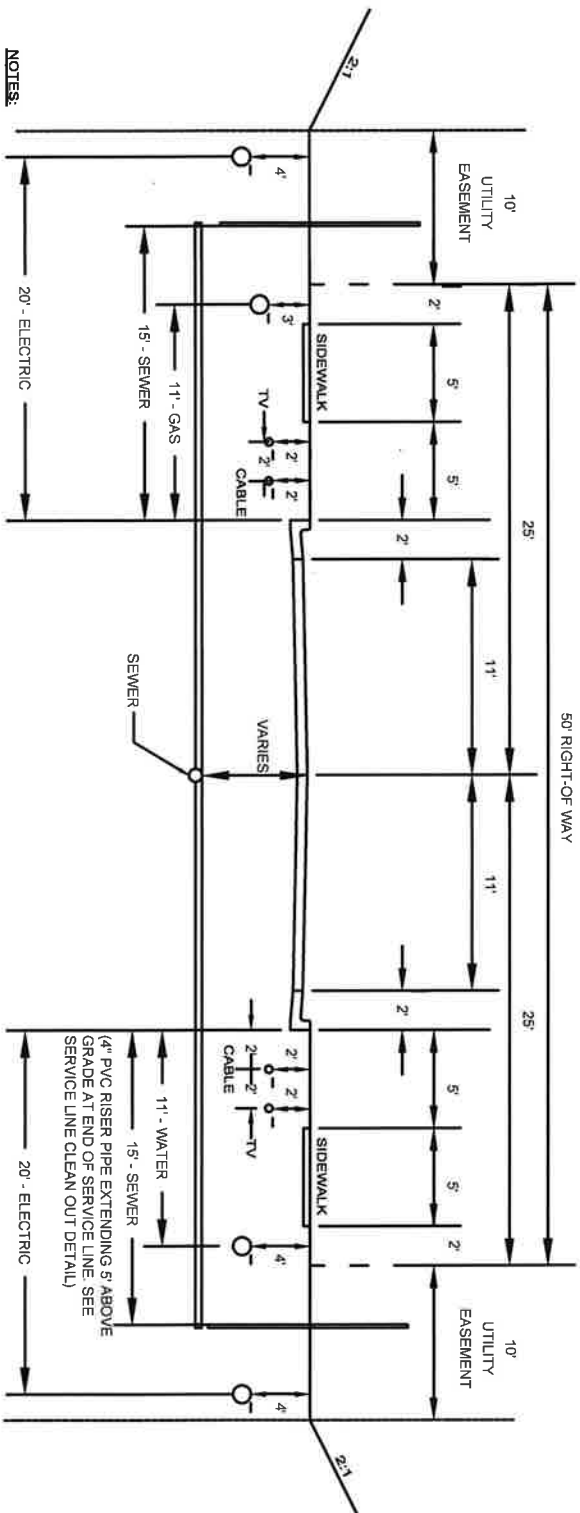


# RESIDENTIAL UTILITY PLACEMENT FOR ROAD WITH 50' RIGHT-OF-WAY

REVISED: 12/7/2022  
SCALE: N.T.S.  
DETAIL NO.

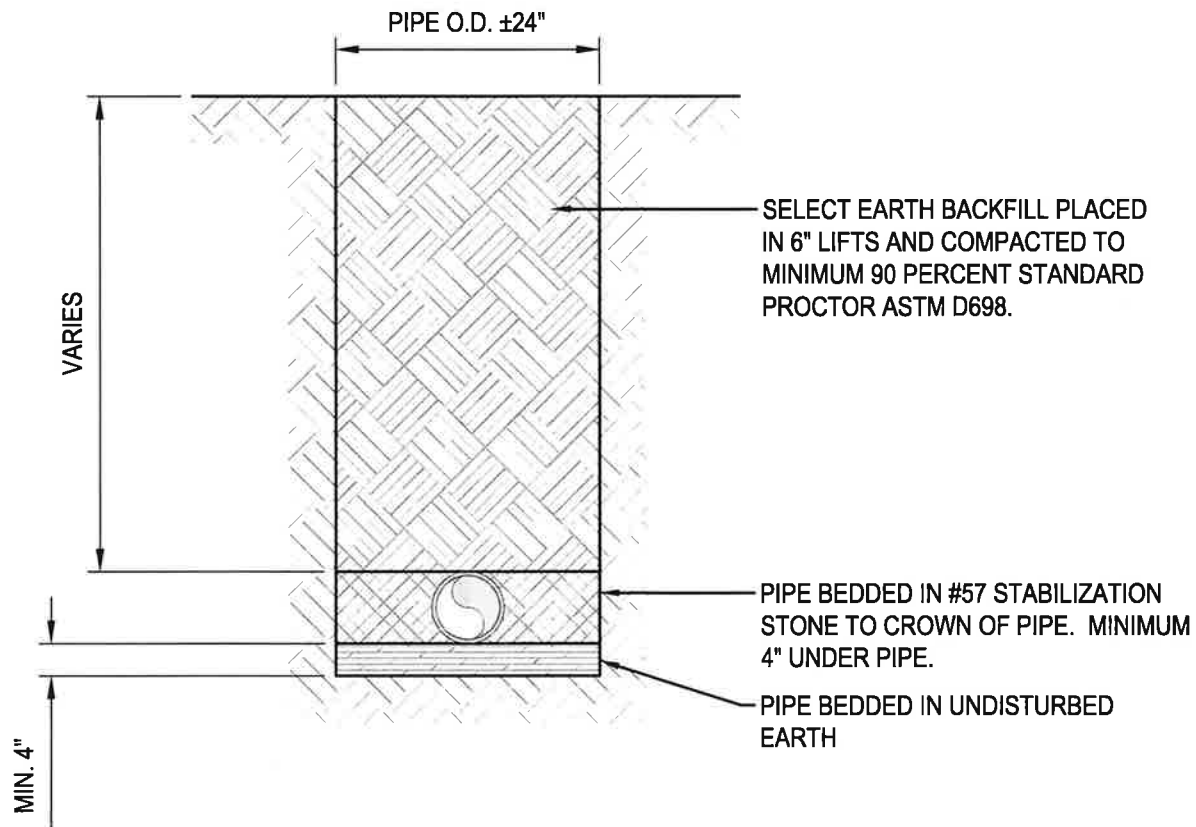
S01

CITY OF HAMPTON



## NOTES:

1. NO TREES OR FENCES ALLOWED WITHIN THE ROAD ROW OR UTILITY EASEMENT EXCEPT WHERE REQUIRED BY CITY, COUNTY, OR OTHER GOVERNMENT ORDINANCE.
2. ALL TREES SHALL BE CLEARED AND SHOULDERS GRADED WITHIN 6' OF FINAL GRADE (INCLUDING UTILITY EASEMENT) PRIOR TO THE INSTALLATION OF ANY UTILITIES.
3. UTILITY PLACEMENT SHALL REMAIN CONSISTENT FROM BACK OF CURB THROUGHOUT THE PROJECT REGARDLESS OF ANY INCONSISTENCIES IN ROAD CONSTRUCTION. EXAMPLES: STORM SEWERS, CULVERTS, CUL-DE-SACS, ETC. ... (EXCEPT CATV).
4. AFTER VERIFICATION OF FINAL GRADE, UTILITIES SHALL BE INSTALLED AS FOLLOWS: WATER, ELECTRIC, GAS, TELEPHONE, AND CABLE TELEVISION.
5. TOTAL CLEARED AND GRADED WIDTH TO BE 70' MINIMUM.
6. PROPERTY CORNER REFERENCE SHALL BE PLACED ON CURB AND GUTTER AND ON 10' OFFSET STAKE.
7. UTILITY EASEMENT SHALL BE SHOWN AND RECORDED WITH THE FINAL PLAT.
8. WATER METER BOXES SHALL BE LOCATED 6' BACK OF RAW. SEWER SERVICES SHALL BE STUBBED OUT 17' BACK OF CURB.
9. WATER SERVICE LINES SHALL BE MARKED WITH A BLUE 'W' ON CURB. SEWER LATERALS SHALL BE MARKED WITH A GREEN 'X' ON CURB.
10. DEPTH REQUIREMENTS INDICATE MINIMUM DEPTH AT TIME OF INSTALLATION BELOW CURB LINE.
11. THIS STANDARD MAY BE COMBINED WITH JOINT USE STANDARD.
12. CATV PEDESTALS, TELEPHONE PEDESTALS, TRANSFORMERS, AND STREET LIGHTS SHALL BE PLACED IN 5' UTILITY EASEMENT.
13. UTILITIES SHALL BE LOCATED WITHIN PLUSMINUS 6' OF PLAN LOCATION.



**NOTES:**

1. DUCTILE IRON PIPE FOR SANITARY SEWAGE FORCE MAINS SHALL BE BEDDED IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND ANSI/AWWA C151/A21.51, TYPE 3 LAYING CONDITION.
2. MINIMUM DEPTH OF COVER SHALL BE 5'-0".
3. TRACER WIRE SHALL BE INSTALLED ON ALL SANITARY SEWAGE FORCE MAINS.



CITY OF HAMPTON

# DUCTILE IRON SANITARY SEWAGE FORCE MAIN TRENCH DETAIL

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S02**

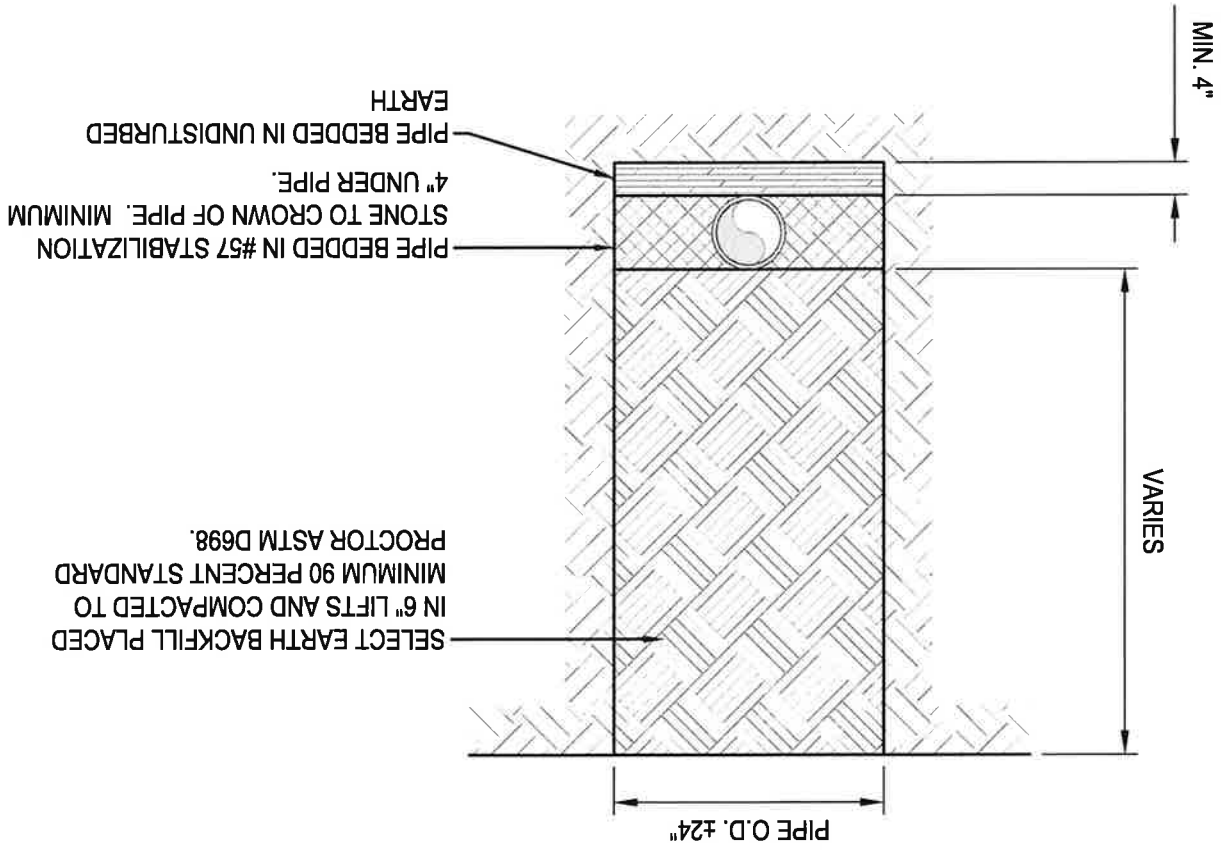


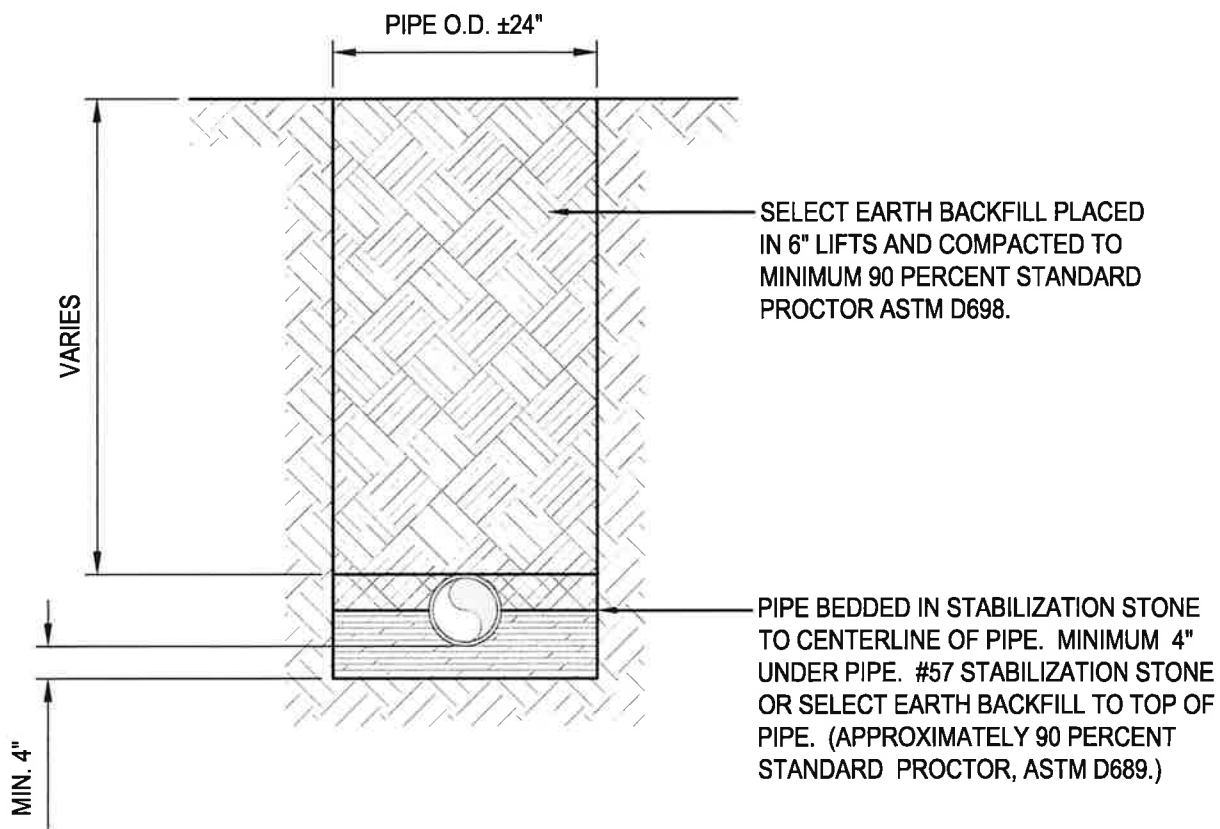
# C900 PVC SANITARY SEWAGE FORCE MAIN TRENCH DETAIL

CITY OF HAMPTON

DATE: 09/30/2022  
SCALE: N.T.S.  
DETAIL #: S03

- NOTES:
1. C900 POLYVINYL CHLORIDE (PVC) PIPE FOR SANITARY SEWAGE FORCE MAINS SHALL BE BEDDED IN ACCORDANCE WITH AWWA C605, TYPE 3 LAYING CONDITION.
  2. MINIMUM DEPTH OF COVER SHALL BE 5'-0".
  3. MAXIMUM DEPTH OF COVER SHALL BE 16'-0".
  4. TRACER WIRE SHALL BE INSTALLED ON ALL SANITARY SEWAGE FORCE MAINS.





**NOTES:**

1. DUCTILE IRON PIPE FOR SANITARY SEWER GRAVITY LINES SHALL BE BEDDED IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND ANSI/AWWA C151/A21.51, TYPE 5 LAYING CONDITION.



CITY OF HAMPTON

# DUCTILE IRON GRAVITY SEWER TRENCH DETAIL

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:  
**S04**



# SDR 35/SDR 26 GRAVITY SEWER TRENCH DETAIL

CITY OF HAMPTON

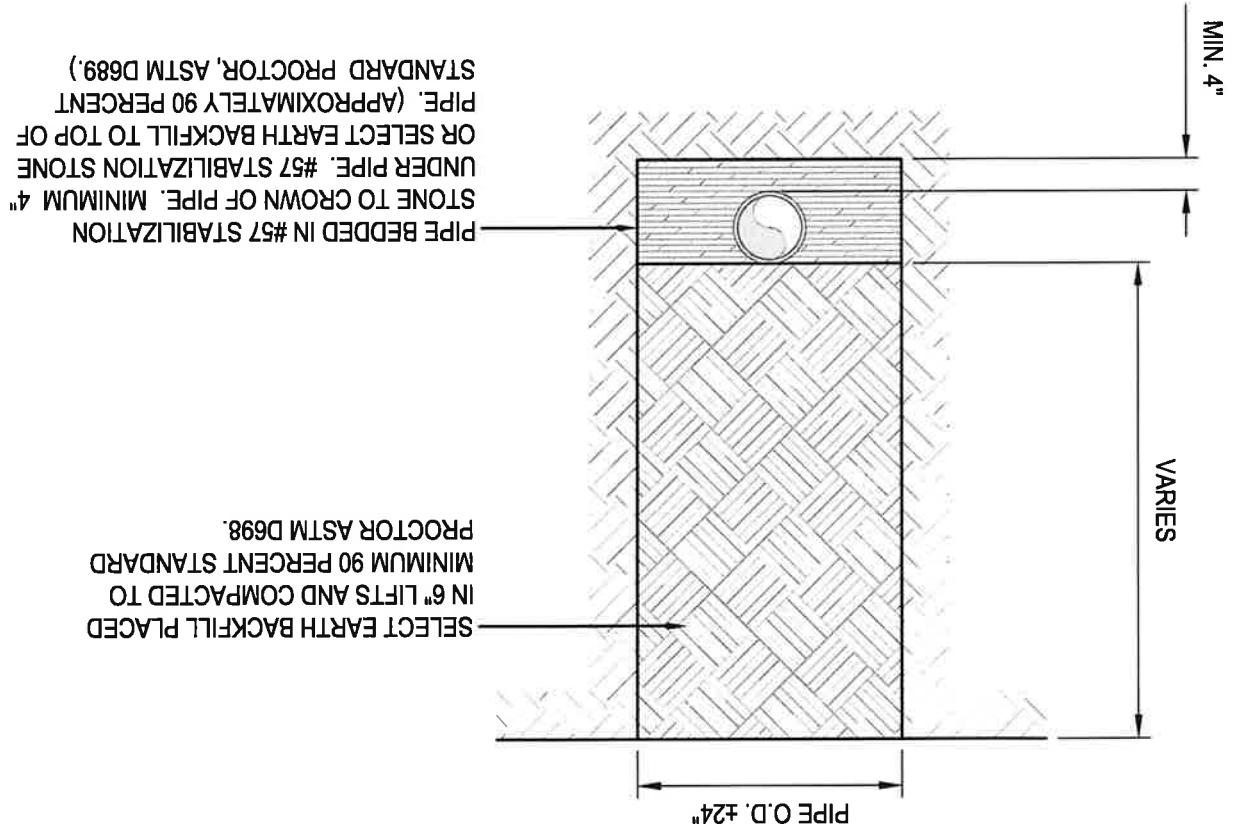
S05

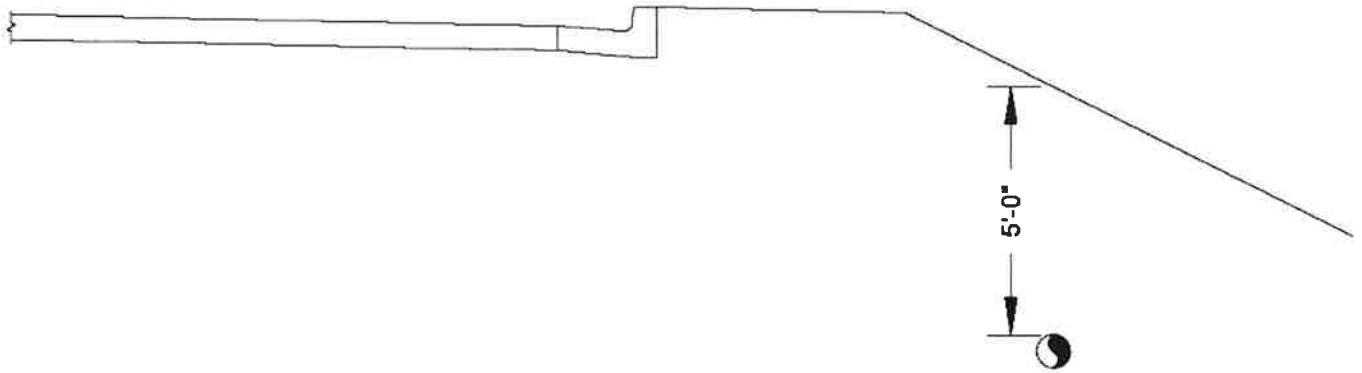
DETAIL #:

SCALE: N.T.S.

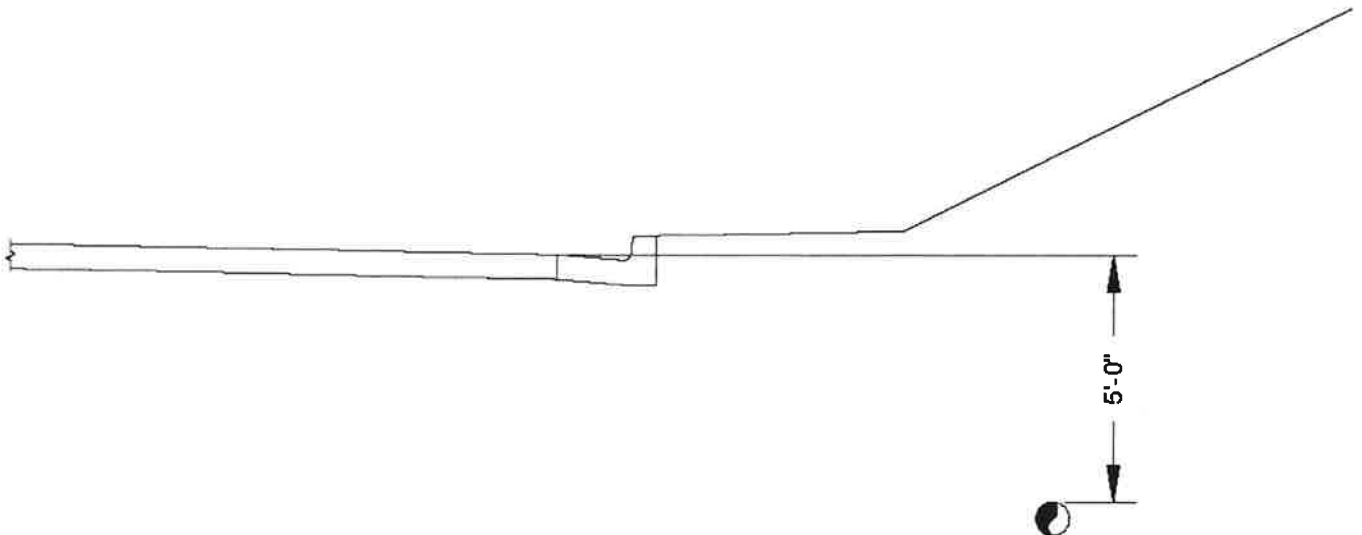
DATE: 09/30/2022

- NOTES:
1. SDR 35/ SDR 28 POLYVINYL CHLORIDE (PVC) PIPE FOR SANITARY SEWER GRAVITY LINES SHALL BE BEDDED IN ACCORDANCE WITH AWWA C605, TYPE 5 LAYING CONDITION.
  2. MAXIMUM DEPTH OF COVER SHALL BE 16'-0"





## PIPE DEPTH WITH DECLINING GRADE AT EDGE OF PAVEMENT



## PIPE DEPTH WITH INCREASING GRADE AT EDGE OF PAVEMENT

### NOTES:

1. SANITARY SEWAGE FORCE MAINS SHALL HAVE A MINIMUM DEPTH OF COVER OF 60-INCHES



CITY OF HAMPTON

## PIPE DEPTH AT EDGE OF PAVEMENT

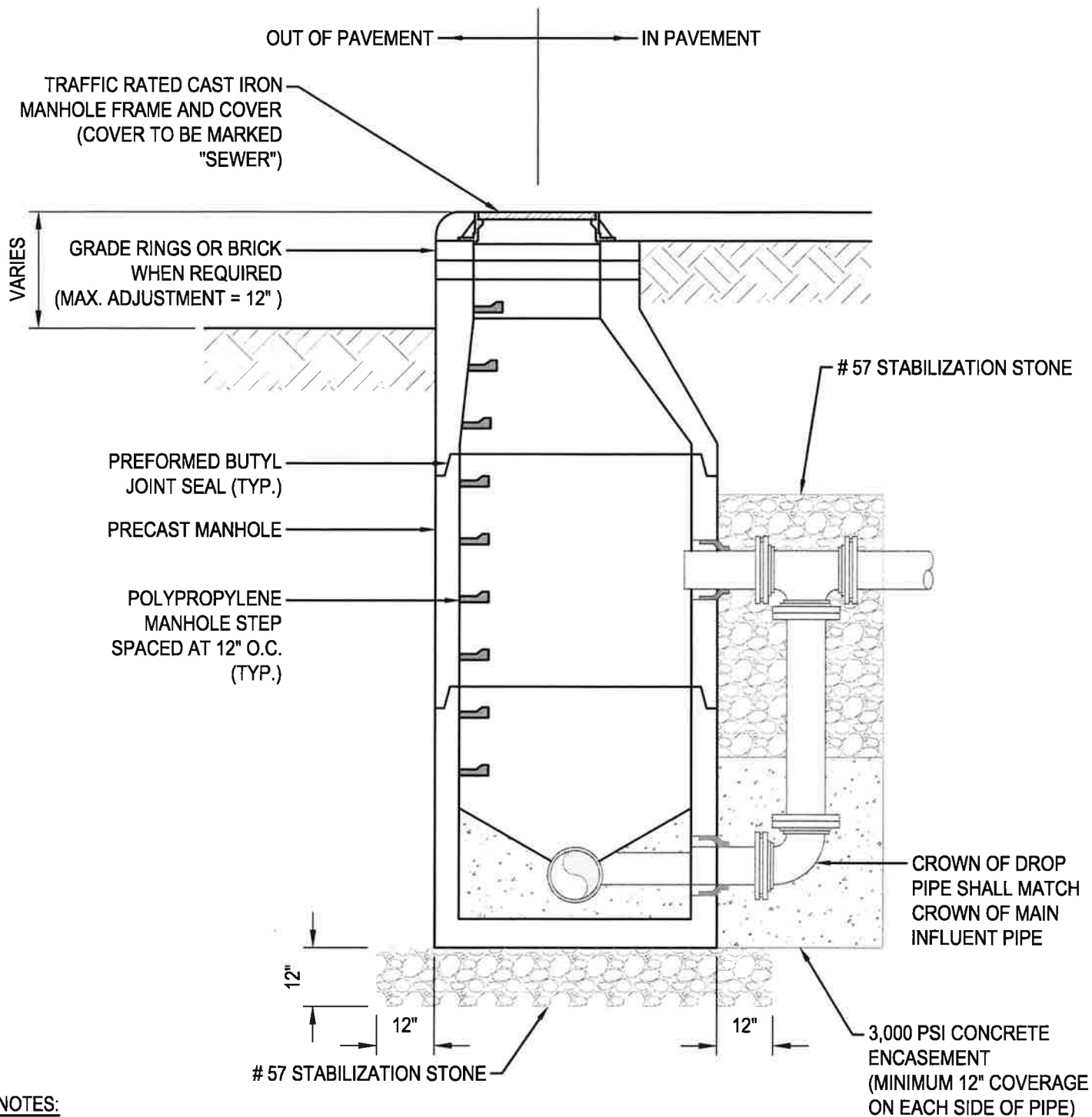
DATE: 09/30/2022

SCALE: SDR 35/SDR 26

DETAIL #:

**S06**

# STANDARD SANITARY SEWER MANHOLE



**NOTES:**

1. OUTSIDE DROPS REQUIRED WHEN INSIDE DROP IS GREATER THAN 2 FEET.
2. MANHOLES LOCATED OUTSIDE OF PAVEMENT SHALL HAVE BOLT-DOWN LIDS.
3. PIPE ENCASED IN CONCRETE SHALL BE WRAPPED WITH MINIMUM 10 MIL PLASTIC.



CITY OF HAMPTON

# SANITARY MANHOLE WITH OUTSIDE DROP

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S08**

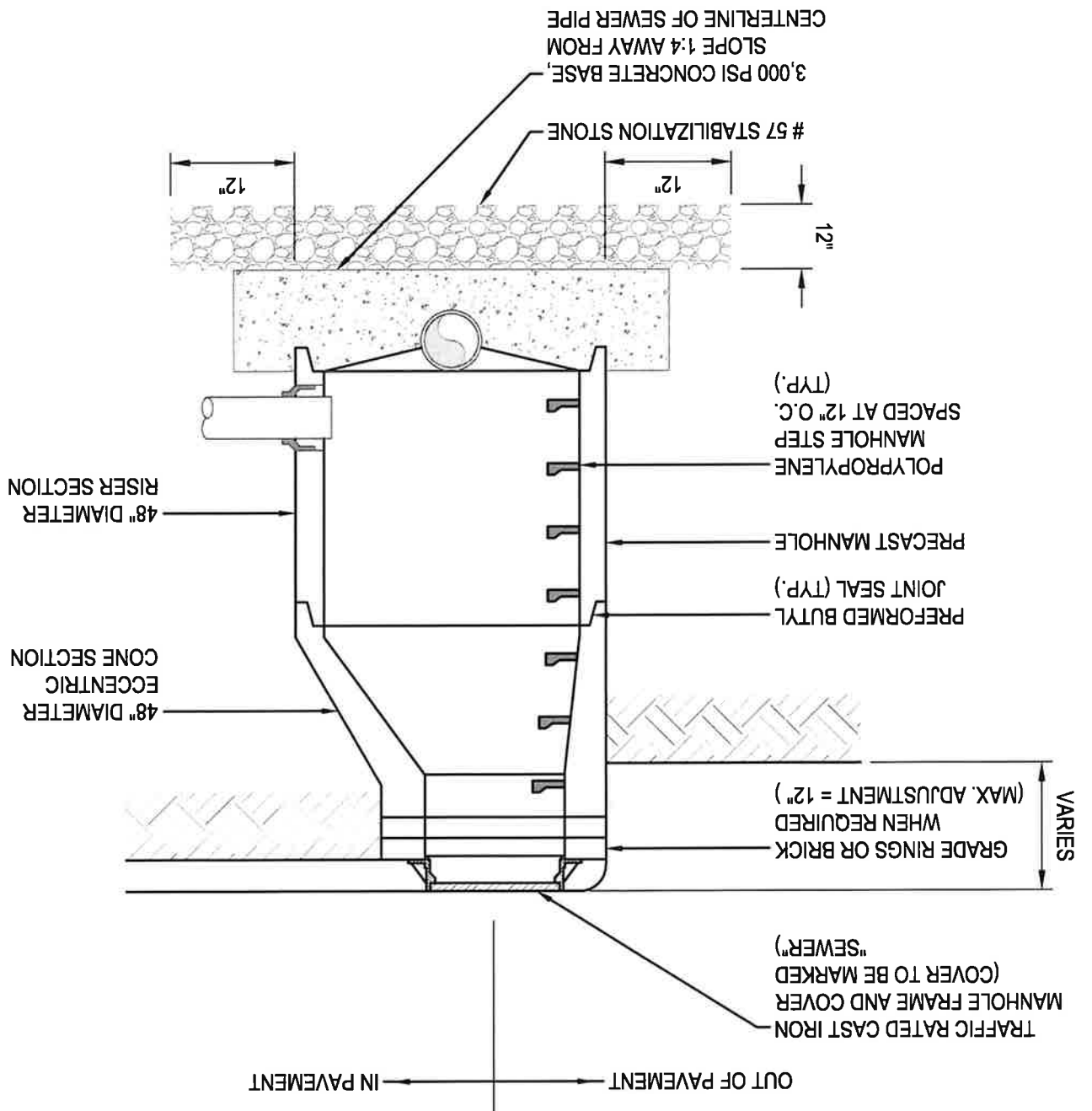


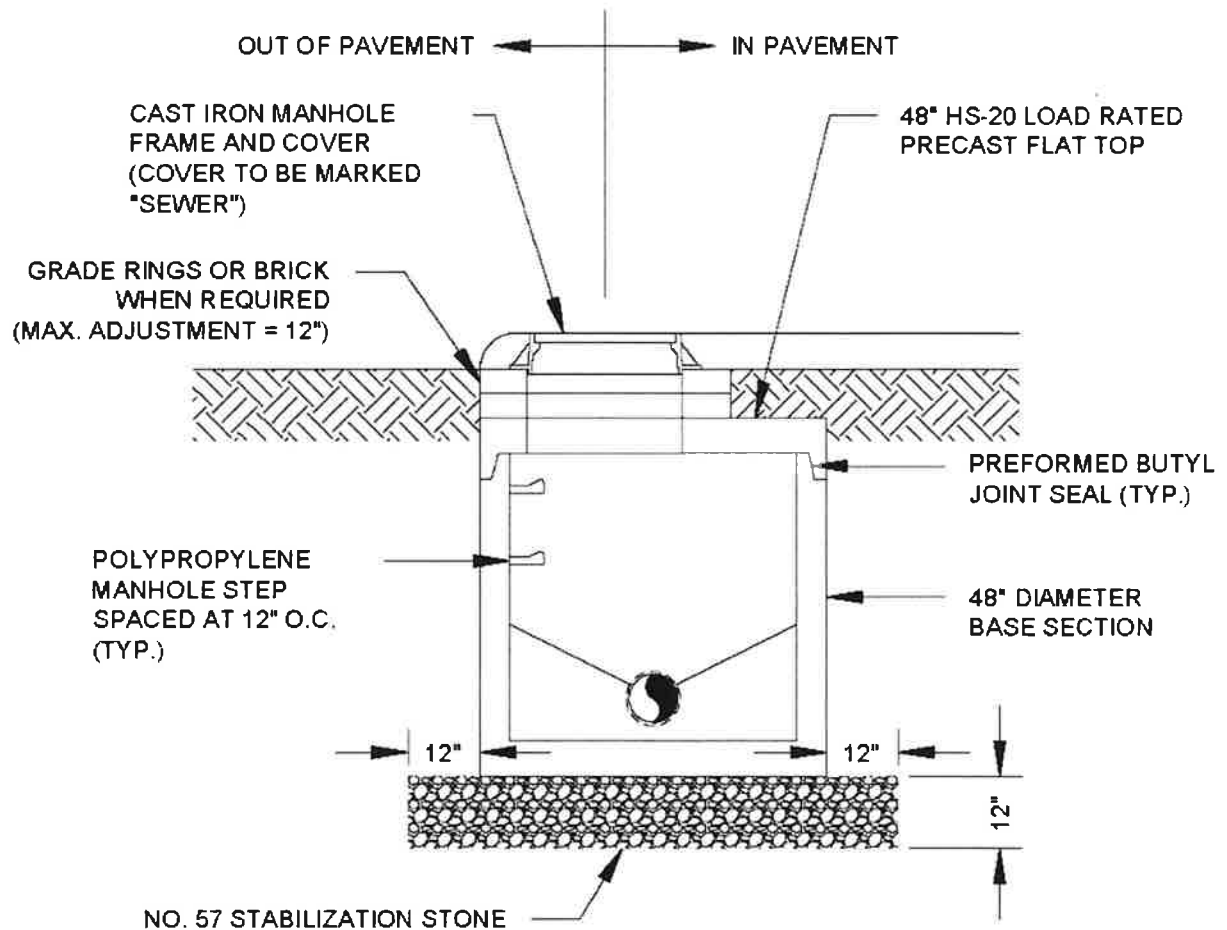
# SANITARY SEWER DOGHOUSE MANHOLE

CITY OF HAMPTON

DATE: 09/30/2022  
SCALE: N.T.S.  
DETAIL #:  
S09

- NOTES:
1. ALL JOINTS AROUND EXISTING AND PROPOSED SEWER LINE SHALL BE GROUTED WATERTIGHT.
  2. AFTER DOGHOUSE MANHOLE CONSTRUCTION IS COMPLETE, TOP HALF OF EXISTING SEWER LINE SHALL BE CUT OUT USING A METHOD APPROVED BY THE INSPECTOR.
  3. MANHOLES LOCATED OUTSIDE OF PAVEMENT SHALL HAVE BOLT-DOWN LIDS.





**NOTES:**

1. MANHOLES LOCATED OUTSIDE OF PAVEMENT SHALL HAVE BOLT-DOWN LIDS.



CITY OF HAMPTON

# SHALLOW SANITARY SEWER MANHOLE

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S10**



# SANITARY SEWER MANHOLE VENT

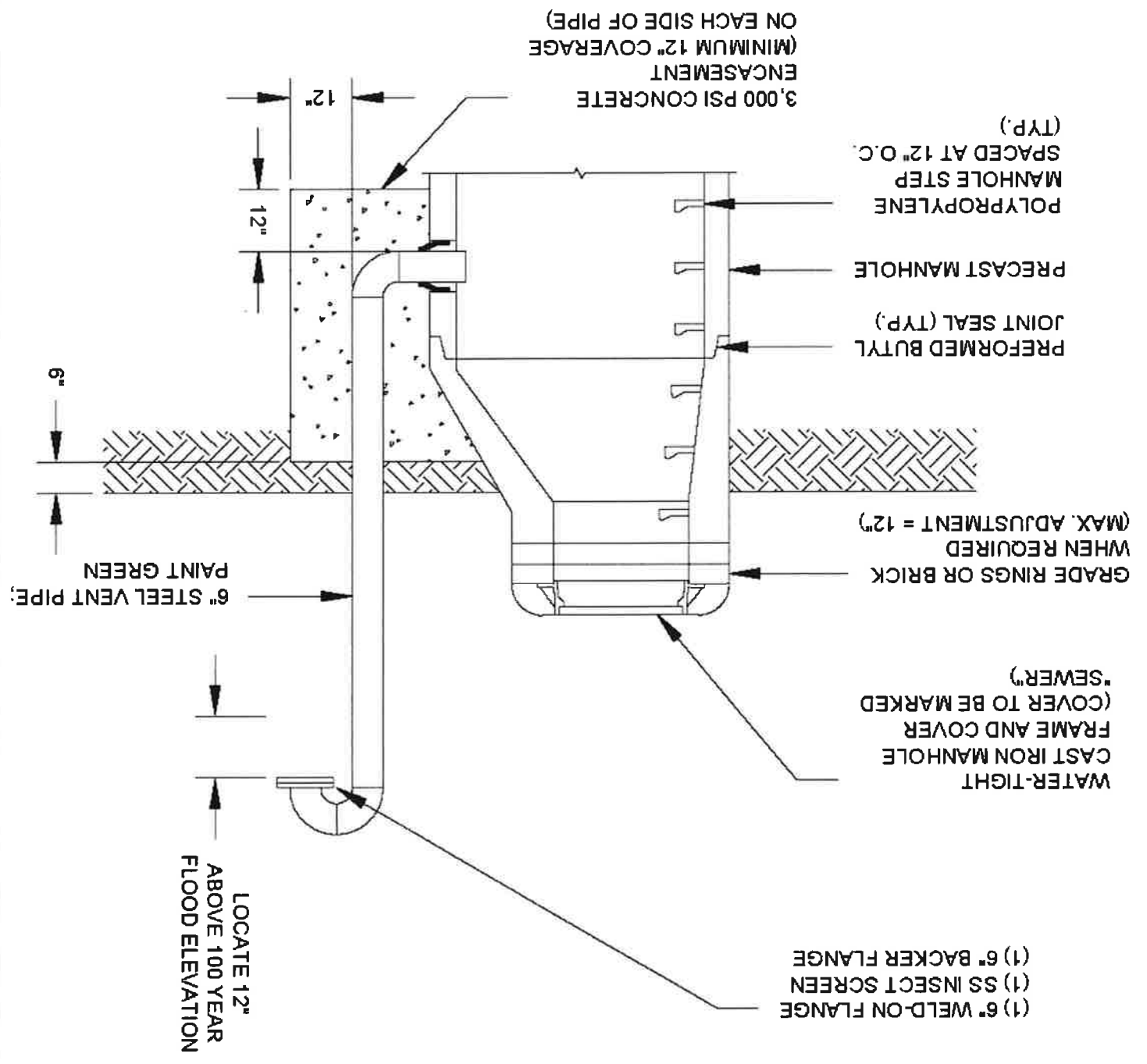
CITY OF HAMPTON

S11

DETAIL #:

SCALE: N.T.S.

DATE: 09/30/2022







# STANDARD SANITARY SEWER MANHOLE LID

CITY OF HAMPTON

S13

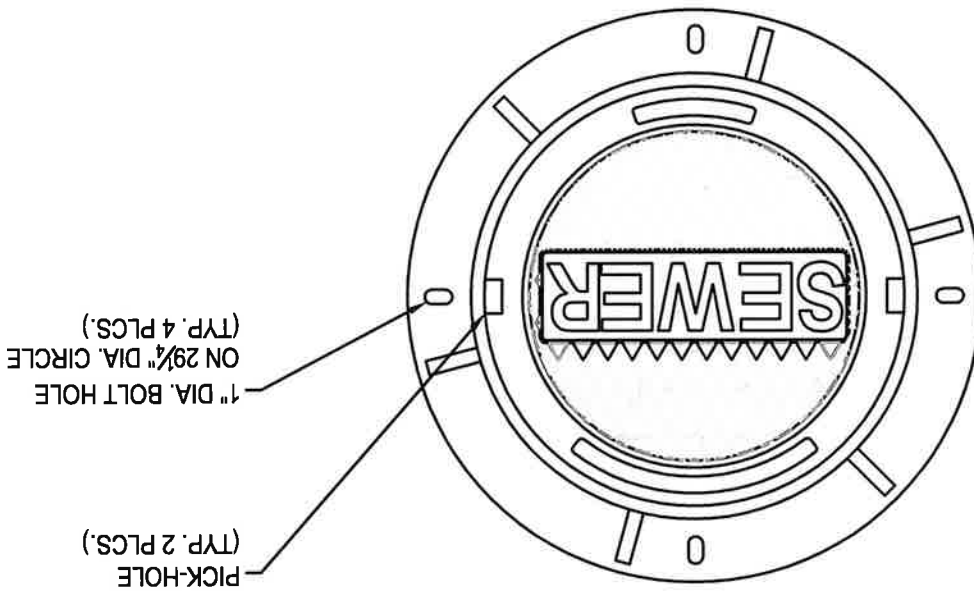
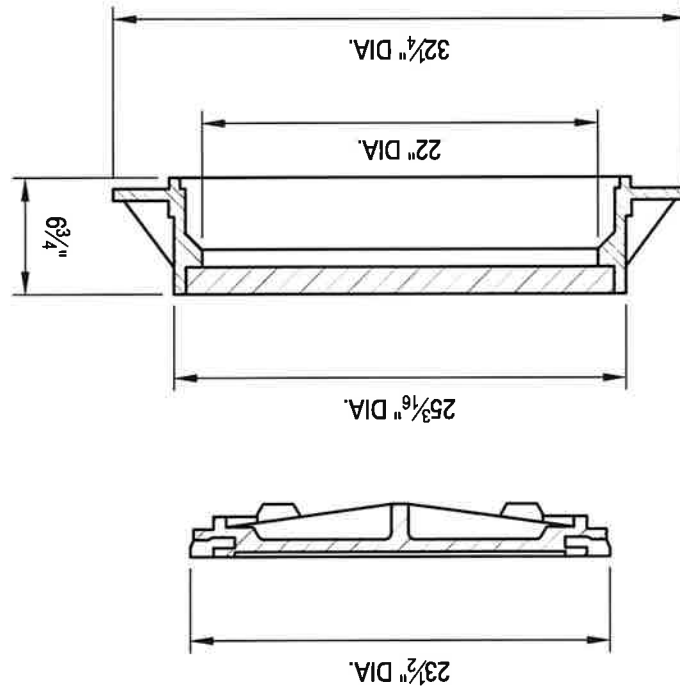
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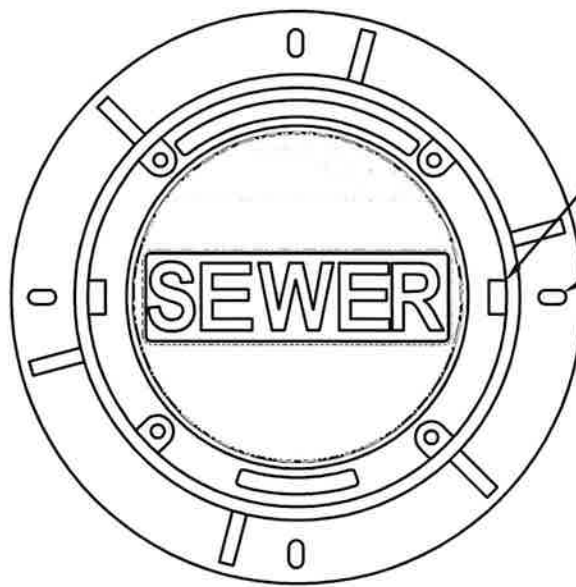
SCALE: N.T.S.

DATE: 09/30/2022

## NOTES:

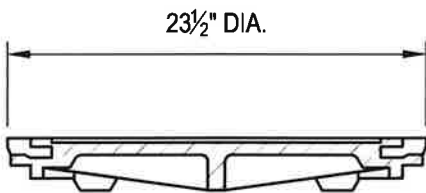
1. MANHOLE FRAME AND COVER SHALL BE HEAVY DUTY DUCTILE IRON CASTING.
2. BEARING SURFACES SHALL BE MACHINED.



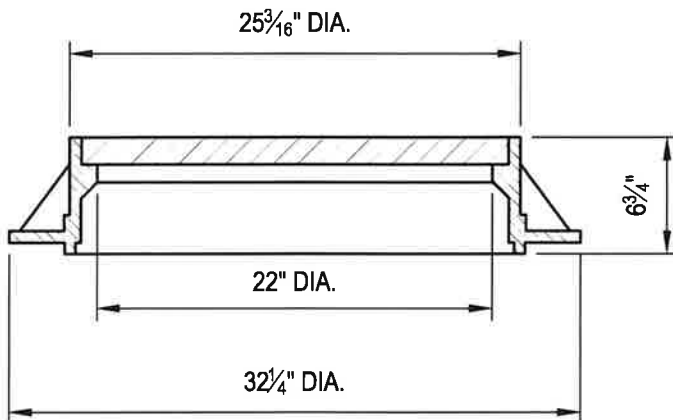


PICK-HOLE  
(TYP. 2 PLCS.)

1" DIA. BOLT HOLE  
ON 29 1/4" DIA. CIRCLE  
(TYP. 4 PLCS.)



23 1/2" DIA.

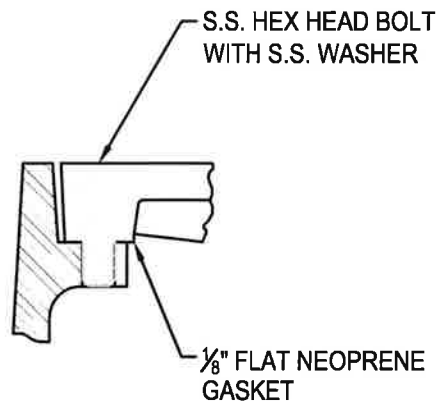


25 3/16" DIA.

22" DIA.

32 1/4" DIA.

6 3/4"



S.S. HEX HEAD BOLT  
WITH S.S. WASHER

1/8" FLAT NEOPRENE  
GASKET

**NOTES:**

1. MANHOLE FRAME AND COVER SHALL BE HEAVY DUTY DUCTILE IRON CASTING.
2. BEARING SURFACES SHALL BE MACHINED.



CITY OF HAMPTON

# WATERTIGHT SANITARY SEWER MANHOLE LID

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S14**



# SANITARY FORCE MAIN DISCHARGE MANHOLE

S15

DETAIL #:

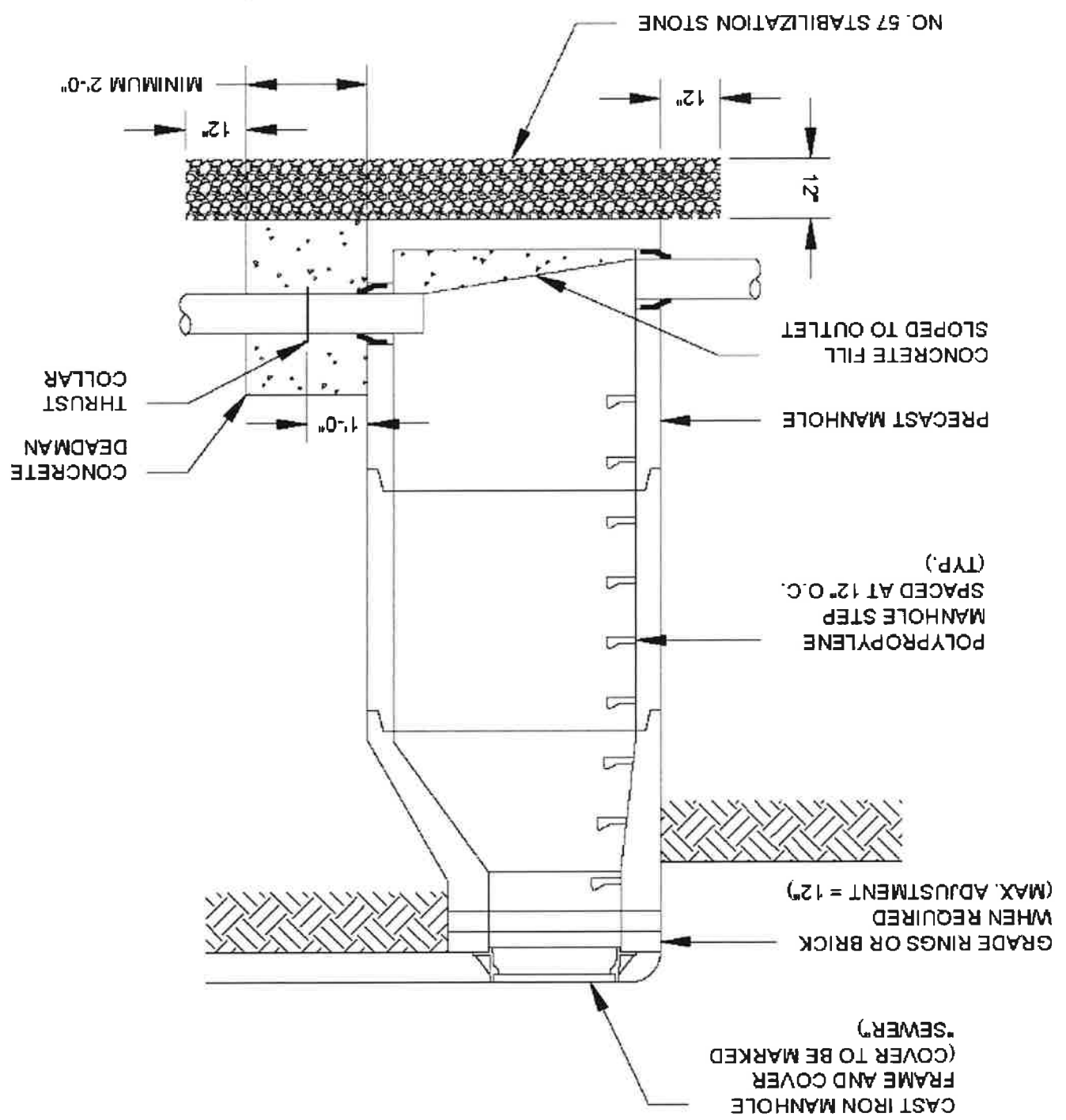
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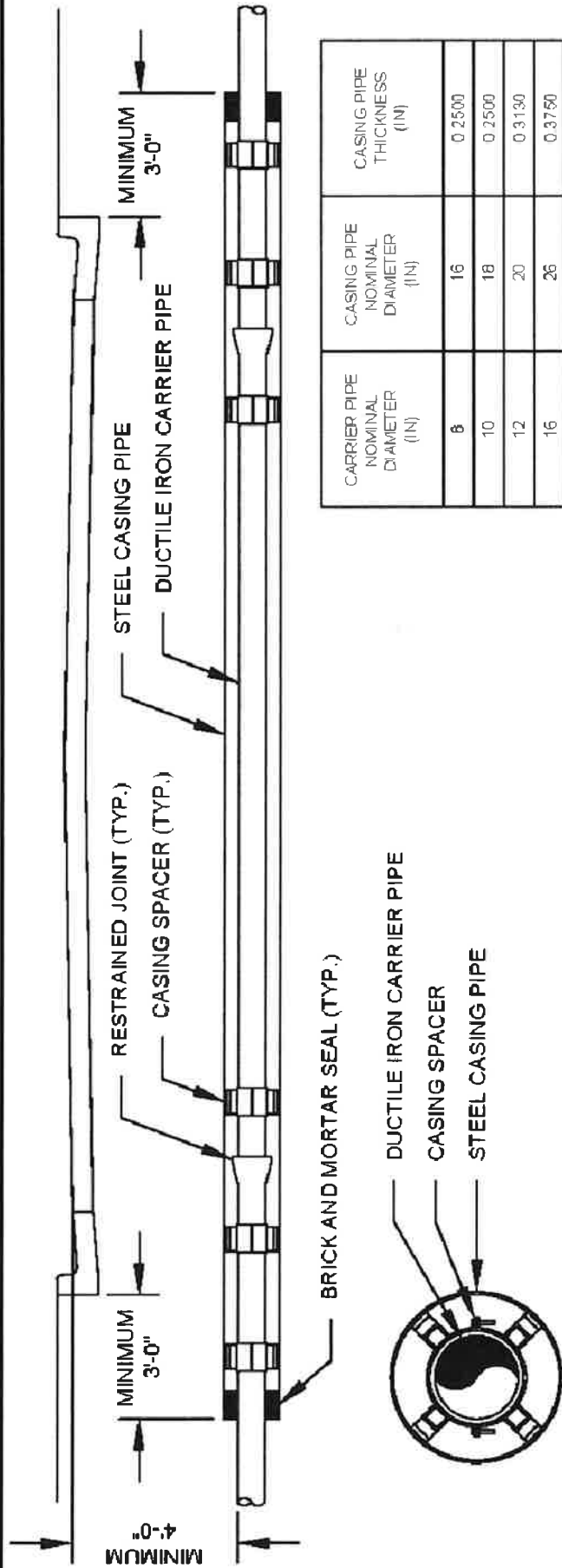
DATE: 09/30/2022

CITY OF HAMPTON

## NOTES:

1. DISCHARGE MANHOLE SHALL BE LINED WITH A FIBERGLASS REINFORCED EPOXY RESIN LINING SYSTEM OR AN ELASTOMERIC POLYURETHANE LINING SYSTEM.





| CARRIER PIPE<br>NOMINAL<br>DIAMETER<br>(IN) | CASING PIPE<br>NOMINAL<br>DIAMETER<br>(IN) | CASING PIPE<br>THICKNESS<br>(IN) |
|---------------------------------------------|--------------------------------------------|----------------------------------|
| 8                                           | 16                                         | 0.2500                           |
| 10                                          | 18                                         | 0.2500                           |
| 12                                          | 20                                         | 0.3130                           |
| 16                                          | 26                                         | 0.3750                           |
| 20                                          | 30                                         | 0.4380                           |
| 24                                          | 36                                         | 0.5000                           |
| 30                                          | 42                                         | 0.5000                           |
| 36                                          | 48                                         | 0.5000                           |

**NOTES:**

1. JOINTS INSIDE CASING PIPE SHALL BE RESTRAINED.
2. PROVIDE A MINIMUM OF 2 CASING SPACERS PER JOINT OF PIPE.
3. ENDS OF CASING PIPE SHALL BE SEALED WITH 8" BRICK AND CEMENT MORTAR.
4. ALL COUNTY ROAD CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH HENRY COUNTY DOT STANDARDS AND PERMIT REQUIREMENTS.
5. ALL STATE HIGHWAY CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH GEORGIA DOT STANDARDS AND PERMIT REQUIREMENTS.
6. ALL RAILROAD CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION REGULATIONS AND IN ACCORDANCE WITH PERMIT REQUIREMENTS.



CITY OF HAMPTON

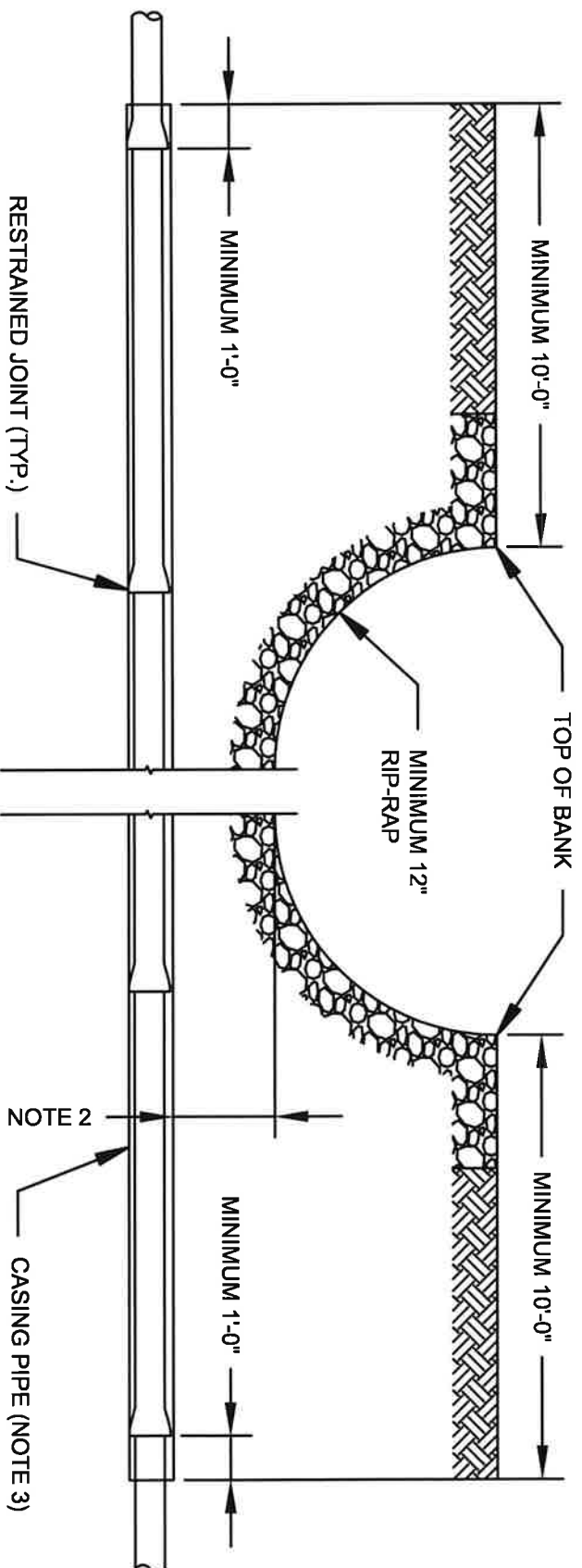
# TYPICAL JACK AND BORE DETAIL

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S16**



**NOTES:**

1. PIPE USED FOR CREEK CROSSINGS SHALL BE C900 PVC PIPE. JOINTS SHALL BE RESTRAINED FOR A MINIMUM OF 20 FEET BEYOND TOP OF BANK ON EACH SIDE OF CREEK.
2. CASING PIPE IS REQUIRED.
3. REFER TO DETAIL S16 FOR CASING DIAMETER.
4. PLACE STONE RIP-RAP APPROXIMATELY 5 FEET UPSTREAM AND 5 FEET DOWNSTREAM FROM CENTERLINE OF PIPE ALONG CREEK BED.



CITY OF HAMPTON

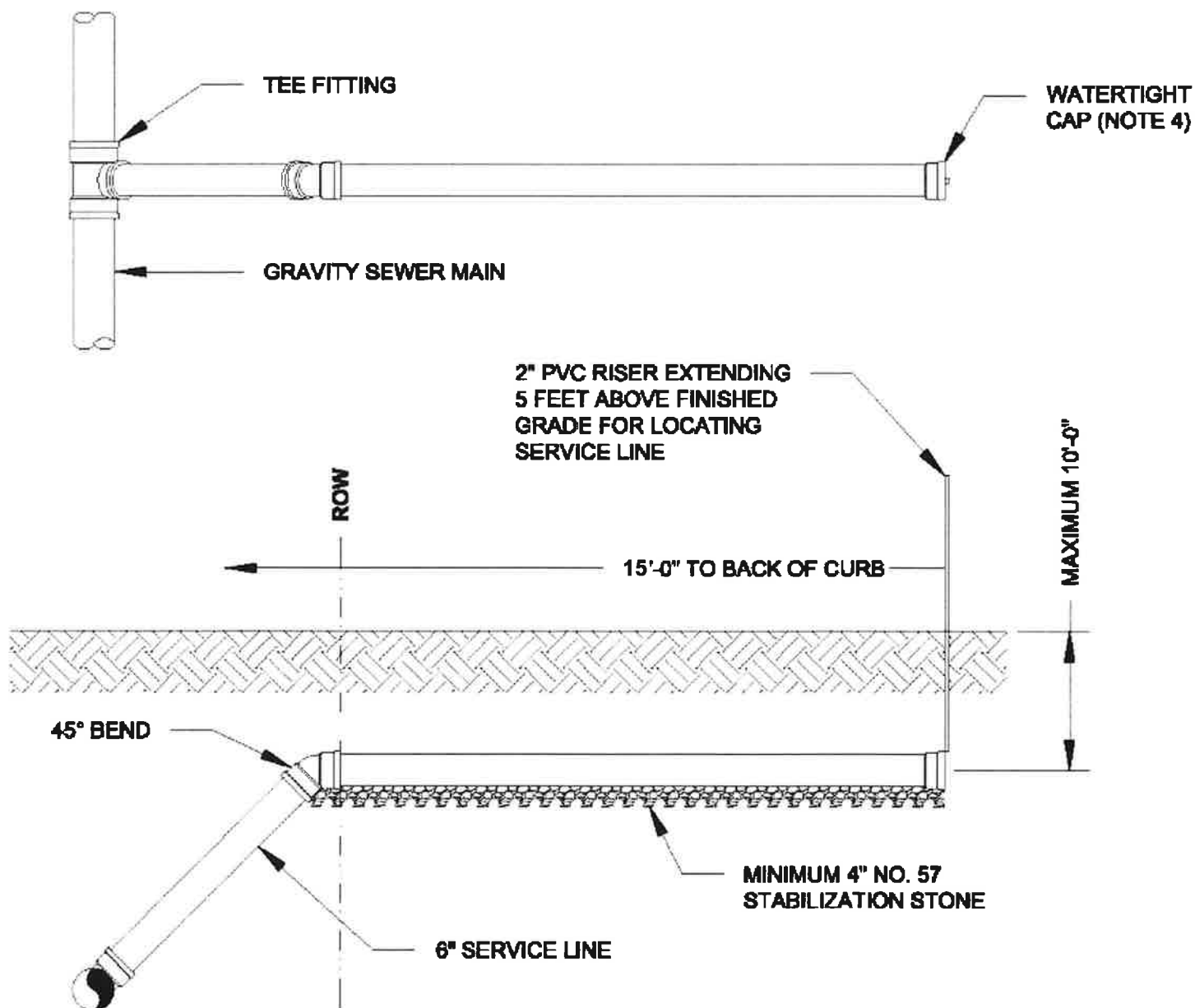
# CREEK CROSSING

REVISED: 09/30/2022

SCALE: N.T.S.

DETAIL NO.

**S17**



**NOTES:**

1. SERVICE LINES SHALL BE STUBBED OUT TO 15 FEET BEHIND THE BACK OF CURB AND SHALL BE NO MORE THAN 10 FEET DEEP.
2. A WATER TIGHT CAP SHALL BE INSTALLED ON THE END OF THE LINE.
3. SERVICE LINES HAVING LESS THAN 5 FEET OF COVER SHALL BE DUCTILE IRON PIPE.
4. PLUMBING CONTRACTOR SHALL TIE ON TO SERVICE LINE USING STANDARD PVC FITTINGS OR "DONUT" CONNECTION.



CITY OF HAMPTON

# SEWER SERVICE LINE LATERAL

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:  
**S18**



# SERVICE LATERAL FOR SEWER LINES 16 FEET DEEP AND GREATER

CITY OF HAMPTON

S19

DETAIL #:

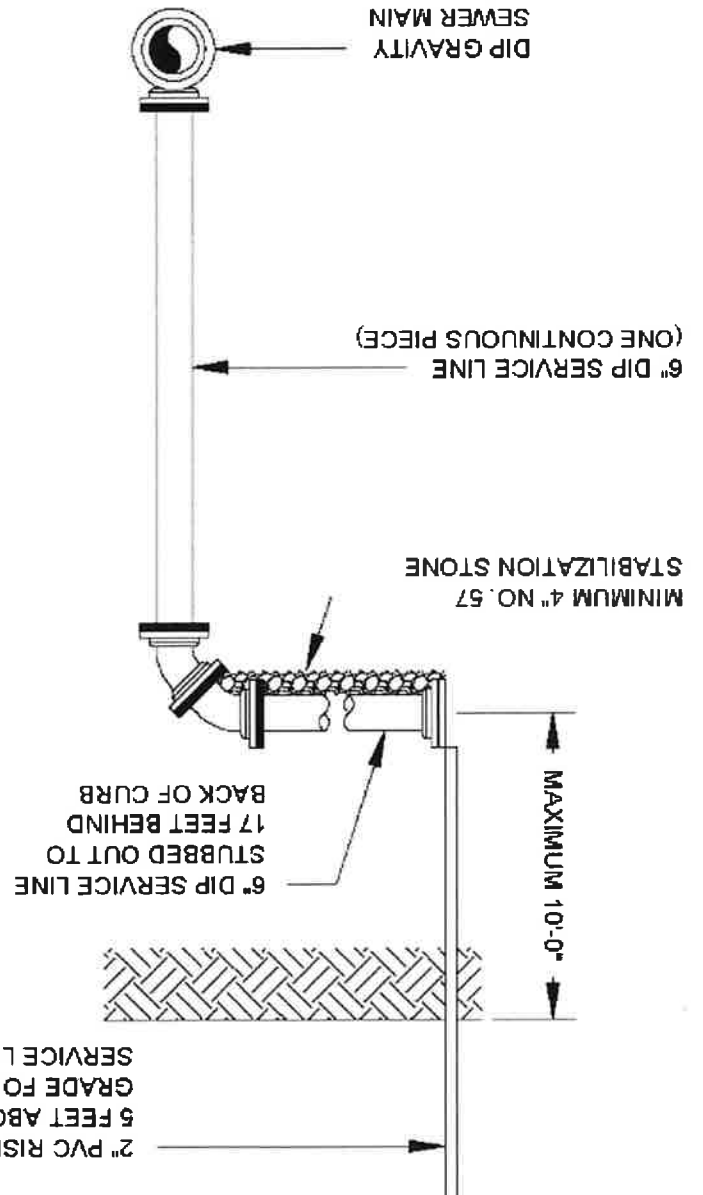
SCALE: N.T.S.

DATE: 09/30/2022

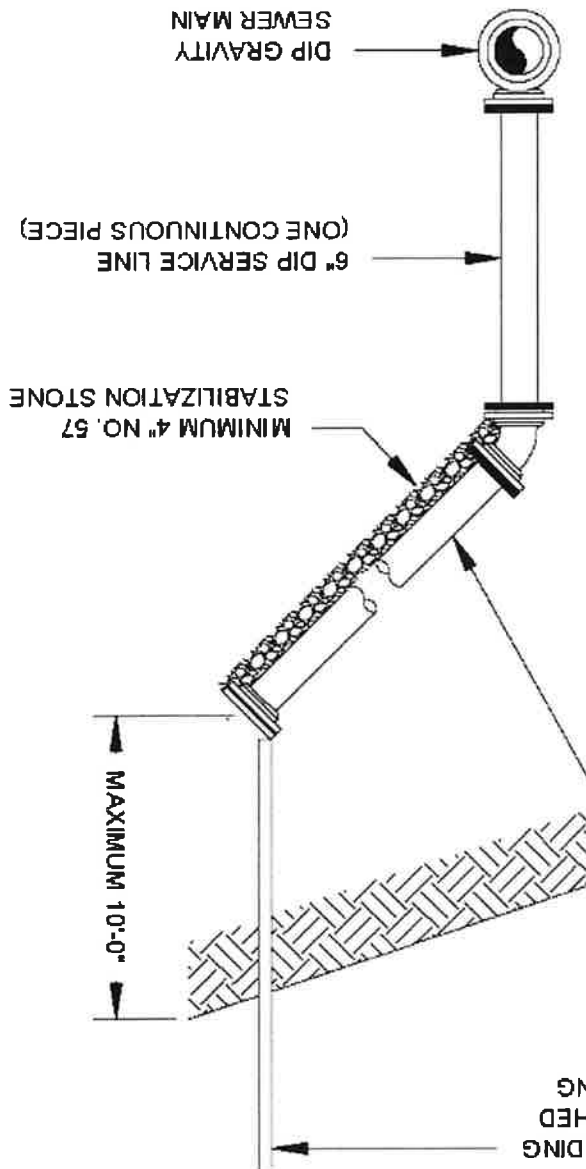
1. SERVICE LINES SHALL BE DUCTILE IRON PIPE STUBBED OUT TO 15 FEET BEHIND THE BACK OF CURB AND SHALL BE NO MORE THAN 10 FEET DEEP.
2. FITTINGS SHALL BE RESTRAINED.
3. SERVICE LINE SHALL BE PLUGGED WITH A WATERTIGHT CAP.

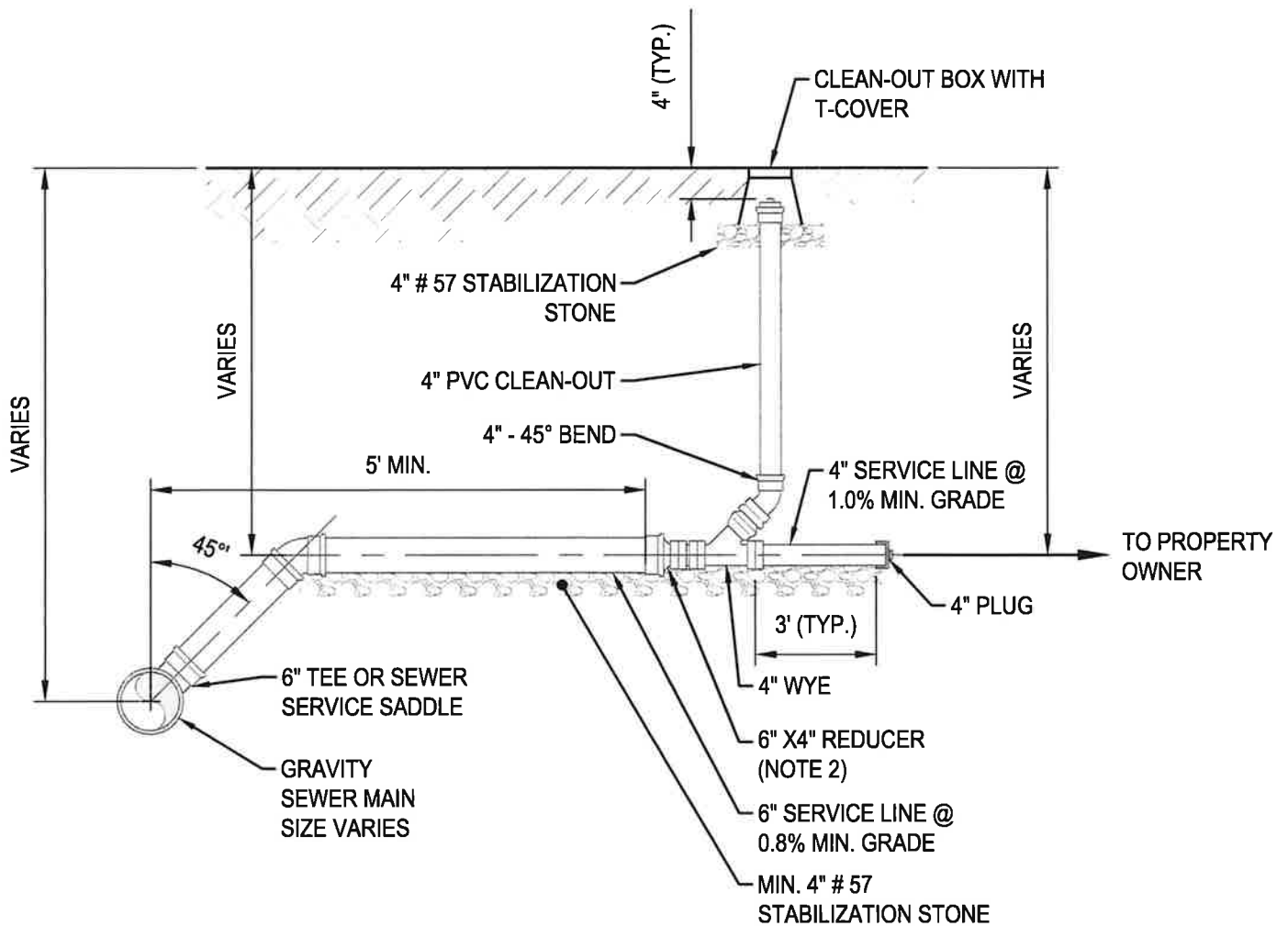
NOTES:

## SHALLOW SLOPES



## STEEP SLOPES





**NOTES:**

1. A SEWER TAP INSPECTION IS REQUIRED.
2. PLUMBING CONTRACTOR SHALL TIE ON TO SERVICE LINE USING STANDARD PVC FITTINGS OR "DONUT" CONNECTION.
3. ALL SERVICE CONNECTIONS TO MAINS SHALL BE A 6" LATERAL TEE INSTALLED ON MAIN OR 6" GASKETS SADDLE WITH 6" CORED SERVICE CONNECTION.



CITY OF HAMPTON

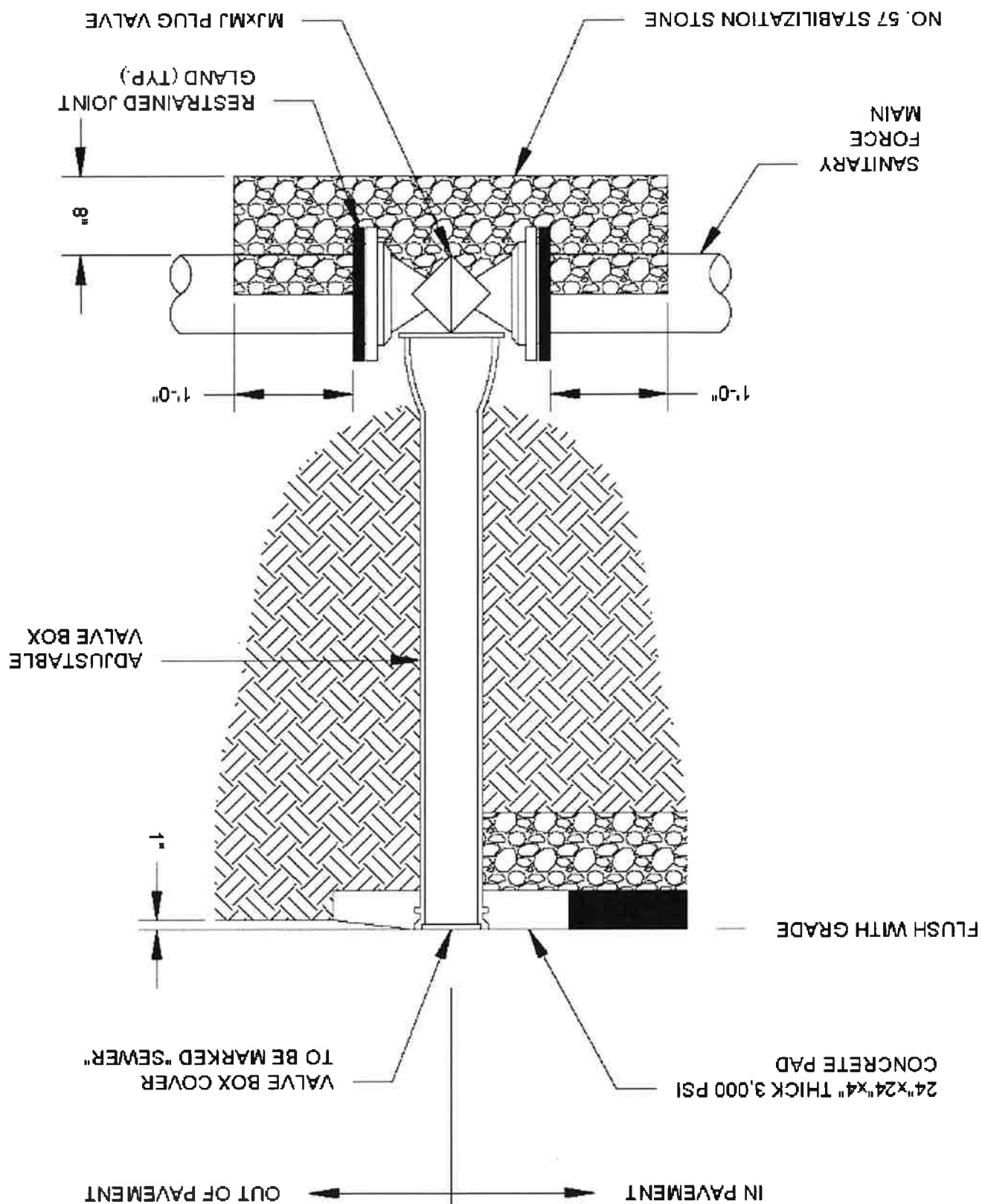
# **SANITARY SEWER SERVICE AT MAIN WITH CLEAN-OUT**

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S20**



30" MANHOLE FRAME  
AND COVER

60" HS-20 LOAD RATED  
PRECAST FLAT TOP

PREFORMED BUTYL  
JOINT SEAL

60" PRECAST  
MANHOLE SECTION

MIN. 12"

MIN. 12"

COMBINATION AIR/VACUUM VALVE

- (1) MNPT x MNPT TYPE 316 SS NIPPLE
- (1) FNPT x FNPT TYPE 316 SS BALL VALVE
- (1) MNPT x MNPT TYPE 316 SS NIPPLE
- (1) 4" BLIND FLANGE WITH FNPT TAP

FORCE MAIN DIA. x 4" MJ x FLG TEE  
WITH RESTRAINED JOINT GLANDS

#57 STABILIZATION STONE



CITY OF HAMPTON

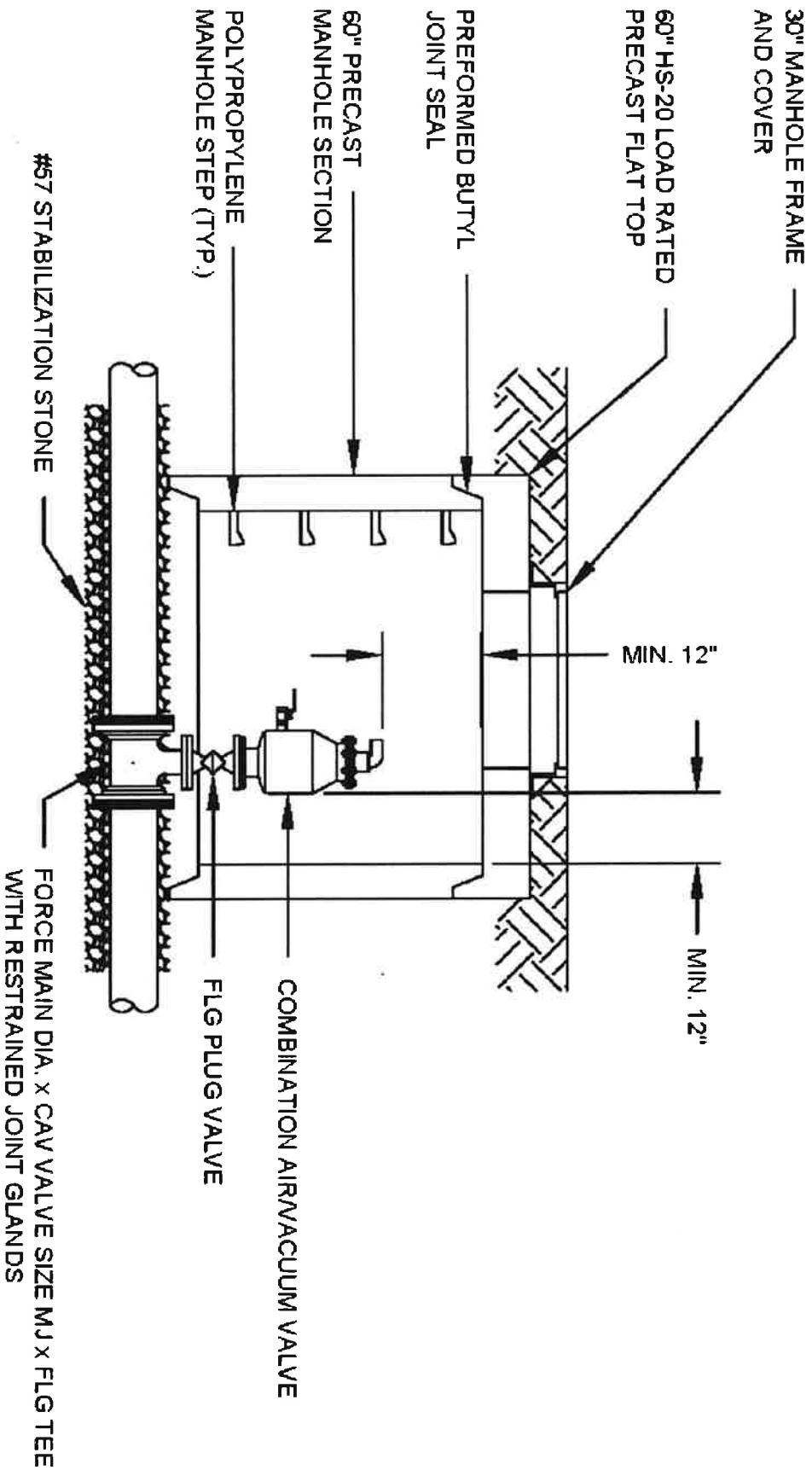
# SANITARY SEWAGE COMBINATION AIR/ VACUUM VALVE (3" AND SMALLER)

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

S22



CITY OF HAMPTON

# SANITARY SEWAGE COMBINATION AIR/ VACUUM VALVE (4" AND LARGER)

DATE: 09/30/2022

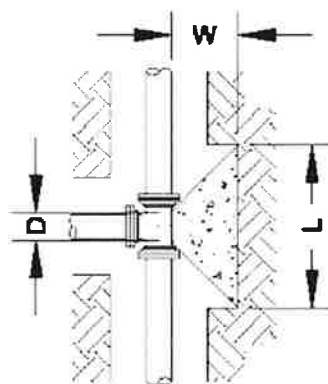
SCALE: N.T.S.

DETAIL #:

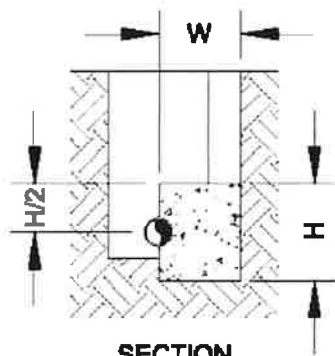
S23



BEND PLAN



TEE PLAN



SECTION

| TEES           |        |        |        |        |                                 |              |
|----------------|--------|--------|--------|--------|---------------------------------|--------------|
| PIPE DIA. (IN) | D DIM. | L DIM. | H DIM. | W DIM. | CONC. VOLUME (YD <sup>3</sup> ) | THRUST (LBF) |
| 4              | 0'-8"  | 2'-4"  | 1'-2"  | 0'-11" | 0.06                            | 4,072        |
| 6              | 0'-8"  | 3'-4"  | 1'-8"  | 1'-4"  | 0.16                            | 8,413        |
| 8              | 0'-8"  | 4'-5"  | 2'-3"  | 1'-10" | 0.39                            | 14,473       |
| 10             | 0'-11" | 5'-5"  | 2'-8"  | 2'-3"  | 0.73                            | 21,773       |
| 12             | 1'-1"  | 6'-5"  | 3'-3"  | 2'-8"  | 1.20                            | 30,791       |
| 90° BENDS      |        |        |        |        |                                 |              |
| PIPE DIA. (IN) | D DIM. | L DIM. | H DIM. | W DIM. | CONC. VOLUME (YD <sup>3</sup> ) | THRUST (LBF) |
| 4              | 0'-5"  | 2'-0"  | 1'-5"  | 1'-2"  | 0.10                            | 5,758        |
| 6              | 0'-8"  | 4'-0"  | 2'-0"  | 1'-8"  | 0.29                            | 11,898       |
| 8              | 0'-8"  | 5'-3"  | 2'-8"  | 2'-3"  | 0.67                            | 20,468       |
| 10             | 0'-11" | 6'-5"  | 3'-3"  | 2'-8"  | 1.21                            | 30,792       |
| 12             | 1'-1"  | 8'-7"  | 3'-10" | 3'-3"  | 2.00                            | 43,545       |
| 45° BENDS      |        |        |        |        |                                 |              |
| PIPE DIA. (IN) | D DIM. | L DIM. | H DIM. | W DIM. | CONC. VOLUME (YD <sup>3</sup> ) | THRUST (LBF) |
| 4              | 0'-4"  | 2'-0"  | 1'-0"  | 0'-10" | 0.04                            | 3,116        |
| 6              | 0'-7"  | 2'-11" | 1'-8"  | 1'-2"  | 0.11                            | 6,439        |
| 8              | 0'-8"  | 3'-10" | 1'-11" | 1'-7"  | 0.25                            | 11,077       |
| 10             | 0'-11" | 4'-9"  | 2'-5"  | 1'-11" | 0.49                            | 16,664       |
| 12             | 1'-1"  | 6'-7"  | 2'-10" | 2'-3"  | 0.79                            | 23,568       |
| 22½° BENDS     |        |        |        |        |                                 |              |
| PIPE DIA. (IN) | D DIM. | L DIM. | H DIM. | W DIM. | CONC. VOLUME (YD <sup>3</sup> ) | THRUST (LBF) |
| 4              | 0'-5"  | 1'-5"  | 0'-9"  | 0'-8"  | 0.01                            | 1,589        |
| 6              | 0'-7"  | 2'-1"  | 1'-1"  | 0'-8"  | 0.04                            | 3,283        |
| 8              | 0'-9"  | 2'-9"  | 1'-5"  | 1'-0"  | 0.09                            | 5,847        |
| 10             | 0'-10" | 3'-4"  | 1'-8"  | 1'-3"  | 0.16                            | 8,495        |
| 12             | 1'-0"  | 4'-0"  | 2'-0"  | 1'-6"  | 0.28                            | 12,014       |

**NOTES:**

- THRUST BLOCK DIMENSIONS ARE BASED ON THE FOLLOWING DESIGN CRITERIA.

WORKING PRESSURE = 150 PSI  
 SOIL BEARING CAPACITY = 1,500 PSF  
 SAFETY FACTOR = 1.5

THESE ARE THE MINIMUM DESIGN CRITERIA. IF ACTUAL WORKING PRESSURE IS GREATER THAN 150 PSI OR IF ACTUAL SOIL BEARING CAPACITY IS LESS THAN 1,500 PSF, DIMENSIONS SHALL BE RECALCULATED.

- THRUST BLOCK CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI.
- THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED SOIL.
- A MINIMUM 10 MIL PLASTIC SHEET SHALL BE PLACED BETWEEN CONCRETE AND PIPE.
- ALL BOLTS SHALL REMAIN ACCESSIBLE. DO NOT COVER WITH CONCRETE.



CITY OF HAMPTON

# THRUST BLOCK

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S24**



# CONCRETE DEADMAN

S25

DETAIL #:

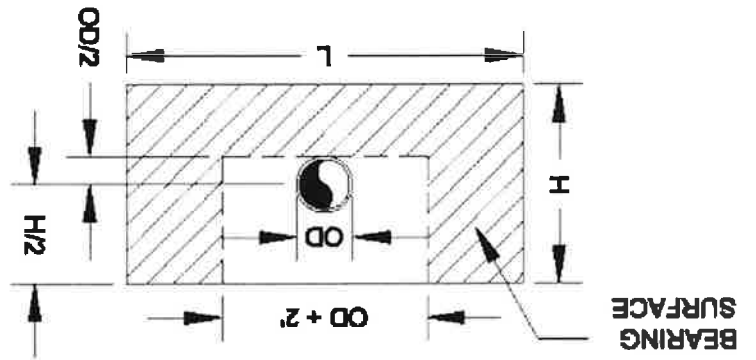
SCALE: N.T.S.

DATE: 09/30/2022

CITY OF HAMPTON

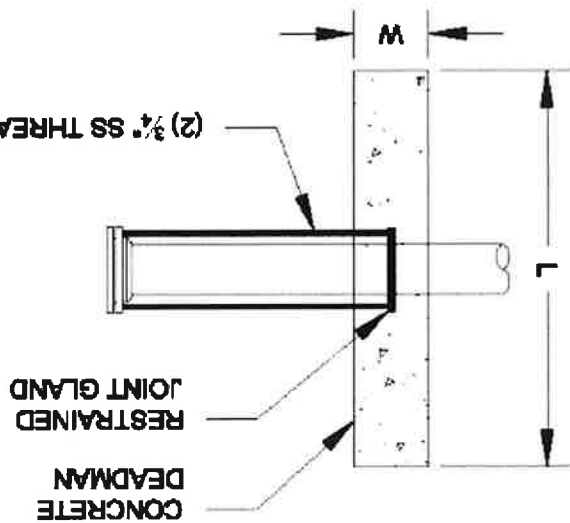
1. DEADMAN DIMENSIONS ARE BASED ON THE FOLLOWING DESIGN CRITERIA.  
WORKING PRESSURE = 150 PSI  
SOIL BEARING CAPACITY = 1,500 PSF  
SAFETY FACTOR = 1.5  
THESE ARE THE MINIMUM DESIGN CRITERIA. IF ACTUAL WORKING PRESSURE IS GREATER THAN 150 PSI OR IF ACTUAL SOIL BEARING CAPACITY IS LESS THAN 1,500 PSF, DIMENSIONS SHALL BE RECALCULATED.
2. DEADMAN CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI.
3. DEADMAN SHALL BEAR AGAINST UNDISTURBED SOIL.
4. A MINIMUM 10 MIL PLASTIC SHEET SHALL BE PLACED BETWEEN CONCRETE AND PIPE.
5. ALL BOLTS SHALL REMAIN ACCESSIBLE. DO NOT COVER WITH CONCRETE.

NOTES:

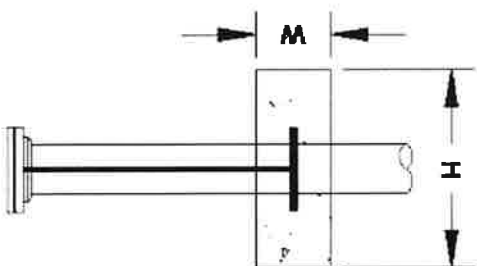


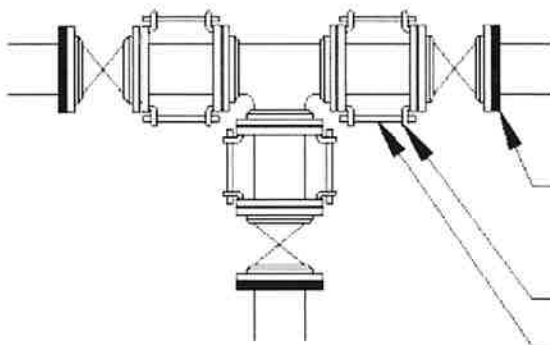
| DEADMAN DIMENSION |             |             |             |                                 |              |
|-------------------|-------------|-------------|-------------|---------------------------------|--------------|
| PIPE DIA. (IN)    | L DIA. (IN) | H DIA. (IN) | W DIA. (IN) | CONC. VOLUME (YD <sup>3</sup> ) | THRUST (LBF) |
| 12                | 7'-1"       | 4'-0"       | 1'-0"       | 1.06                            | 30,791       |
| 10                | 6'-0"       | 3'-6"       | 1'-0"       | 0.78                            | 21,773       |
| 8                 | 5'-4"       | 2'-6"       | 1'-0"       | 0.53                            | 14,473       |
| 6                 | 4'-3"       | 2'-1"       | 1'-0"       | 0.33                            | 8,413        |
| 4                 | 3'-0"       | 1'-7"       | 1'-0"       | 0.18                            | 4,072        |

PLAN



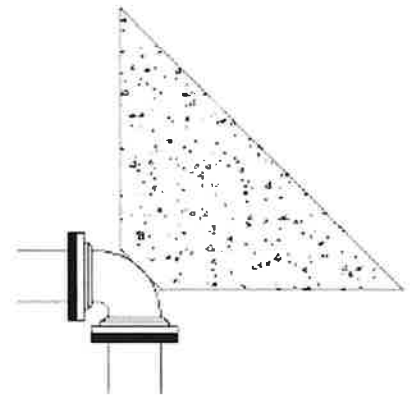
SECTION



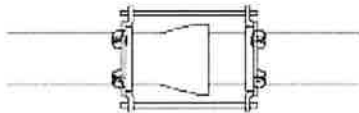


**FITTING WITH TIE-RODS AND  
RESTRAINED JOINT GLANDS**

RESTRAINED  
JOINT GLAND  
(TYP.)  
90° EYE-BOLT (TYP.)  
3/4" THREADED  
ROD (TYP.)



**FITTING WITH RESTRAINED  
JOINT GLAND AND  
THRUST BLOCK**



**TIE-RODS FROM  
RESTRAINED JOINT GLAND TO  
RESTRAINED JOINT GLAND**



**PUSH-ON JOINT WITH  
RESTRAINED JOINT GASKET**

| PIPE<br>DIA.<br>(IN) | ROD<br>SIZE<br>(IN) | # OF<br>RODS |
|----------------------|---------------------|--------------|
| 6                    | 3/4"                | 2            |
| 8                    | 3/4"                | 4            |
| 10                   | 3/4"                | 4            |
| 12                   | 3/4"                | 4            |
| 14                   | 3/4"                | 4            |
| 16                   | 3/4"                | 6            |

**TIE-ROD CHART**

**NOTES:**

1. RESTRAINED JOINT LENGTHS SHALL BE CALCULATED BY THE DESIGN ENGINEER. CALCULATIONS SHALL BE SUBMITTED
2. THREADED ROD SHALL BE MINIMUM TYPE 304 STAINLESS STEEL AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI.



CITY OF HAMPTON

**THRUST RESTRAINT**

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

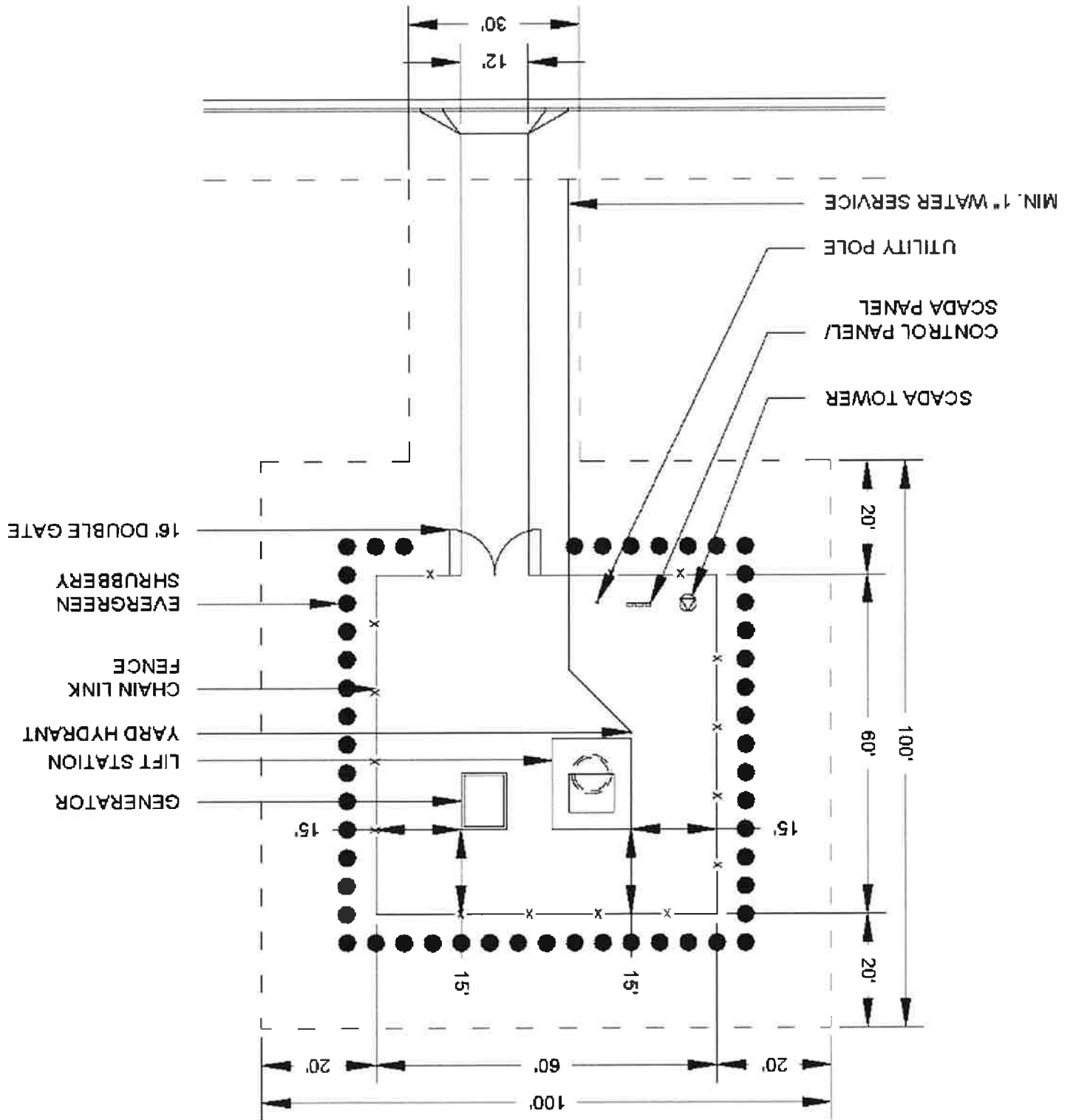
**S26**

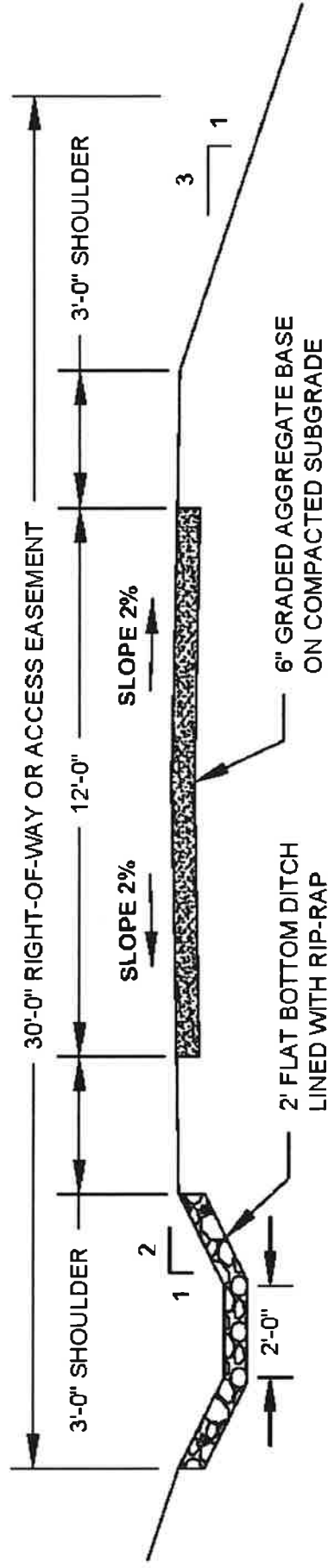


# TYPICAL SANITARY SEWAGE LIFT STATION PROPERTY LAYOUT

CITY OF HAMPTON

DATE: 09/30/2022  
SCALE: N.T.S.  
DETAIL #: S27





CITY OF HAMPTON

# ACCESS ROAD

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S28**



# LIFT STATION ELECTRICAL CONNECTION

CITY OF HAMPTON

S29

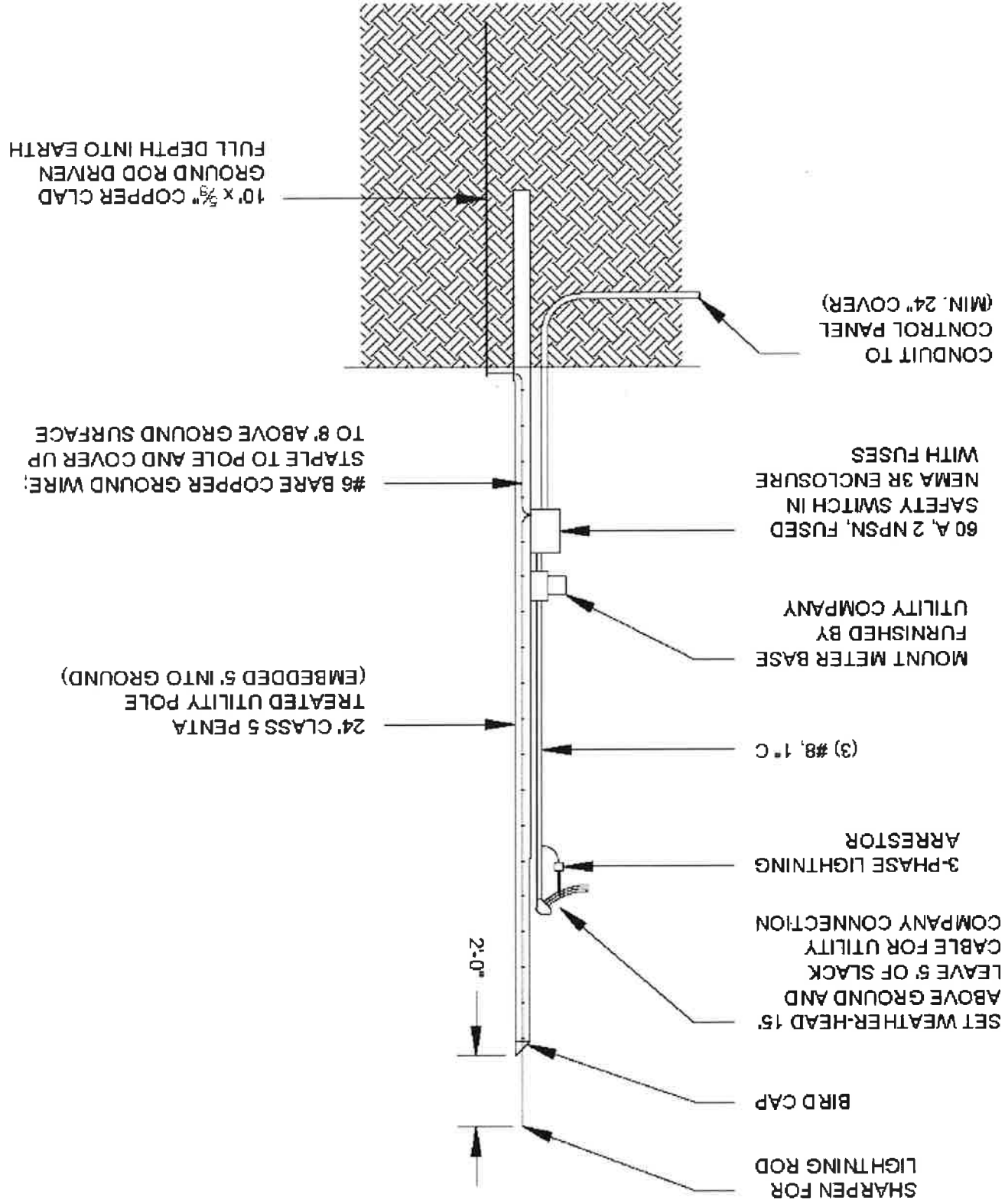
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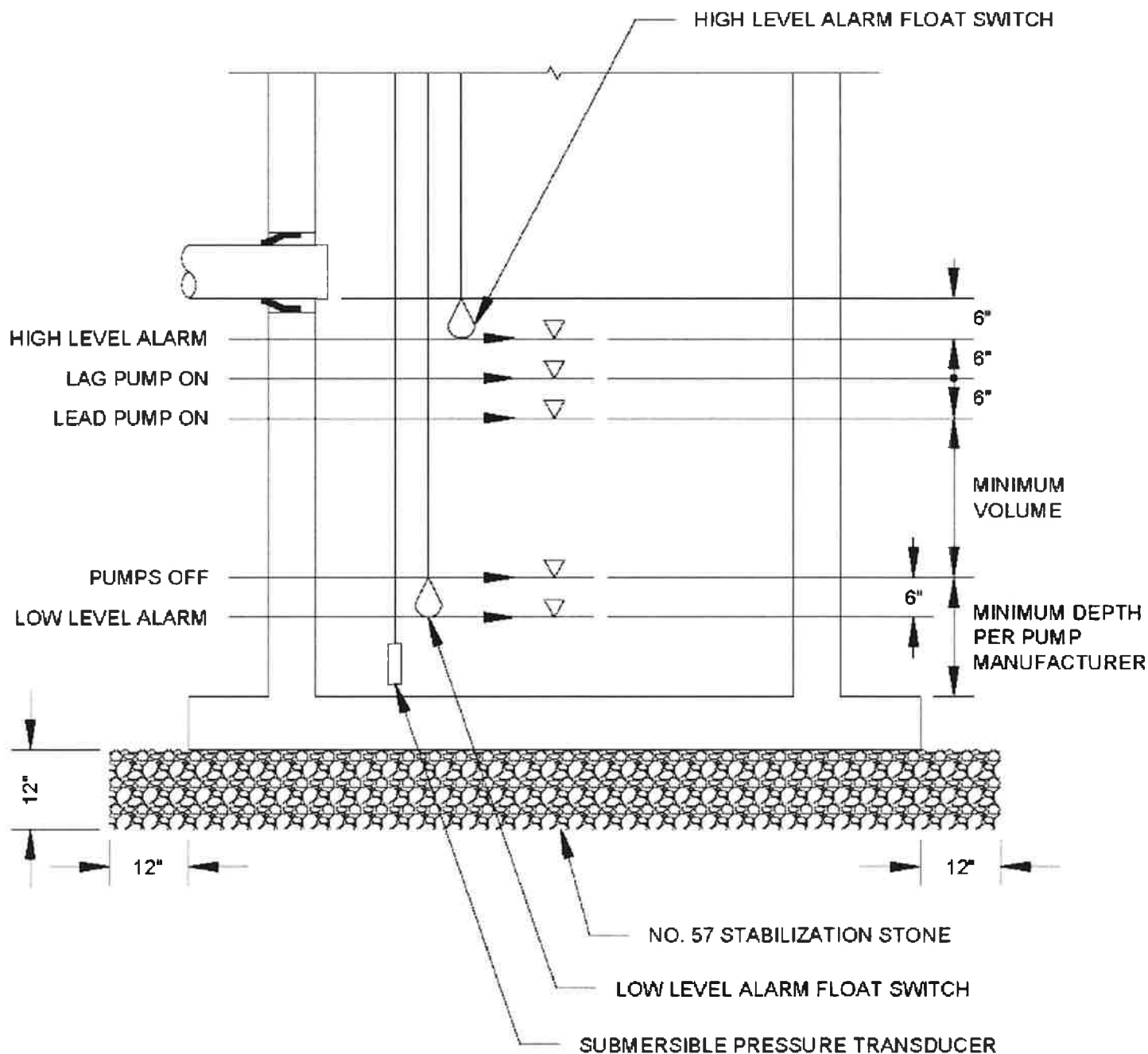
SCALE: N.T.S.

DATE: 09/30/2022

## NOTES:

1. POWER COMPANY TO PROVIDE 120/240/480 V, 3-PHASE SERVICE TO WEATHER HEAD.





**NOTES:**

1. MINIMUM WET WELL DIMENSION IS 6' DIAMETER OR 6' x 6' SQUARE.
2. MINIMUM VOLUME SHALL BE CALCULATED BASED ON A MINIMUM PUMP CYCLE TIME OF 10 MINUTES (6 STARTS PER HOUR) FOR THE SINGLE LARGEST PUMP. A LONGER PUMP CYCLE TIME SHALL BE USED IF REQUIRED BY THE PUMP MANUFACTURER.



CITY OF HAMPTON

# TYPICAL SANITARY SEWAGE LIFT STATION WET WELL

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S30**



CITY OF HAMPTON

## CHAIN LINK FENCE

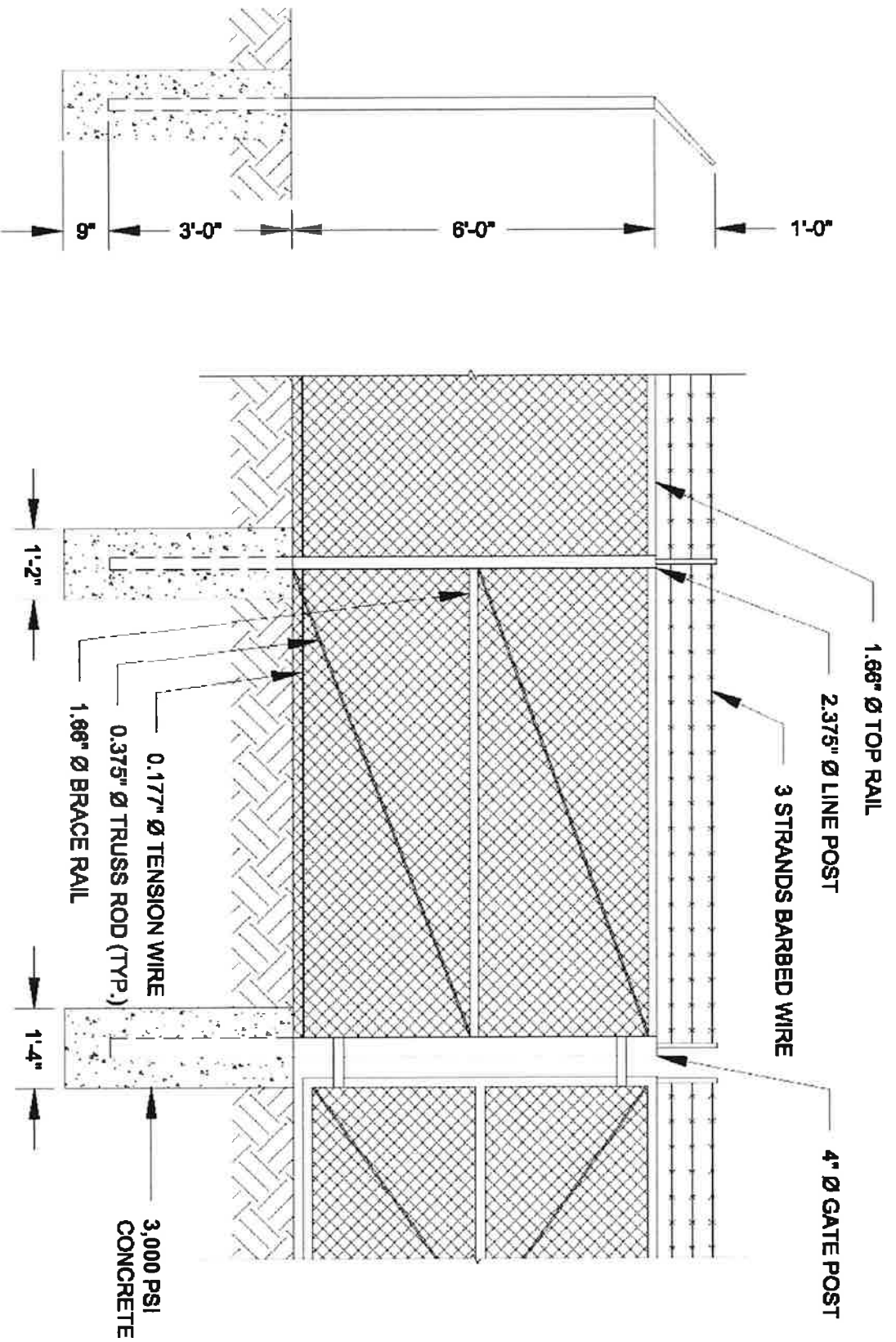
NOTE: FENCING FABRIC, POSTS, RAILS, GATES, ECT. SHALL COMPLY WITH CHAIN-LINK FENCE MANUFACTURER'S INSTITUTE FOR HEAVY DUTY 9GA INSTALLATION.

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

S31



30"x30"x4" THICK  
3,000 PSI CONCRETE PAD  
(UNPAVED LOCATIONS  
ONLY)

24"x24"x4" THICK 3,000 PSI  
CONCRETE PAD

ADJUSTABLE VALVE  
BOX WITH COVER  
MARKED "WATER"

FROST PROOF  
YARD HYDRANT

3/4" HOSE CONNECTION  
WITH VACUUM BREAKER,  
WATTS NO. 80, OR EQUAL

1" TYPE K  
COPPER  
SERVICE LINE

1" CTS COMP. x  
CTS COMP.  
CURB STOP

NO. 57  
STABILIZATION  
STONE

1"x3/4"  
REDUCER

2'-0"  
2'-0"

9"

18"

12"



CITY OF HAMPTON

# FROST PROOF YARD HYDRANT

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S32**



# GREASE INTERCEPTOR

CITY OF HAMPTON

S33

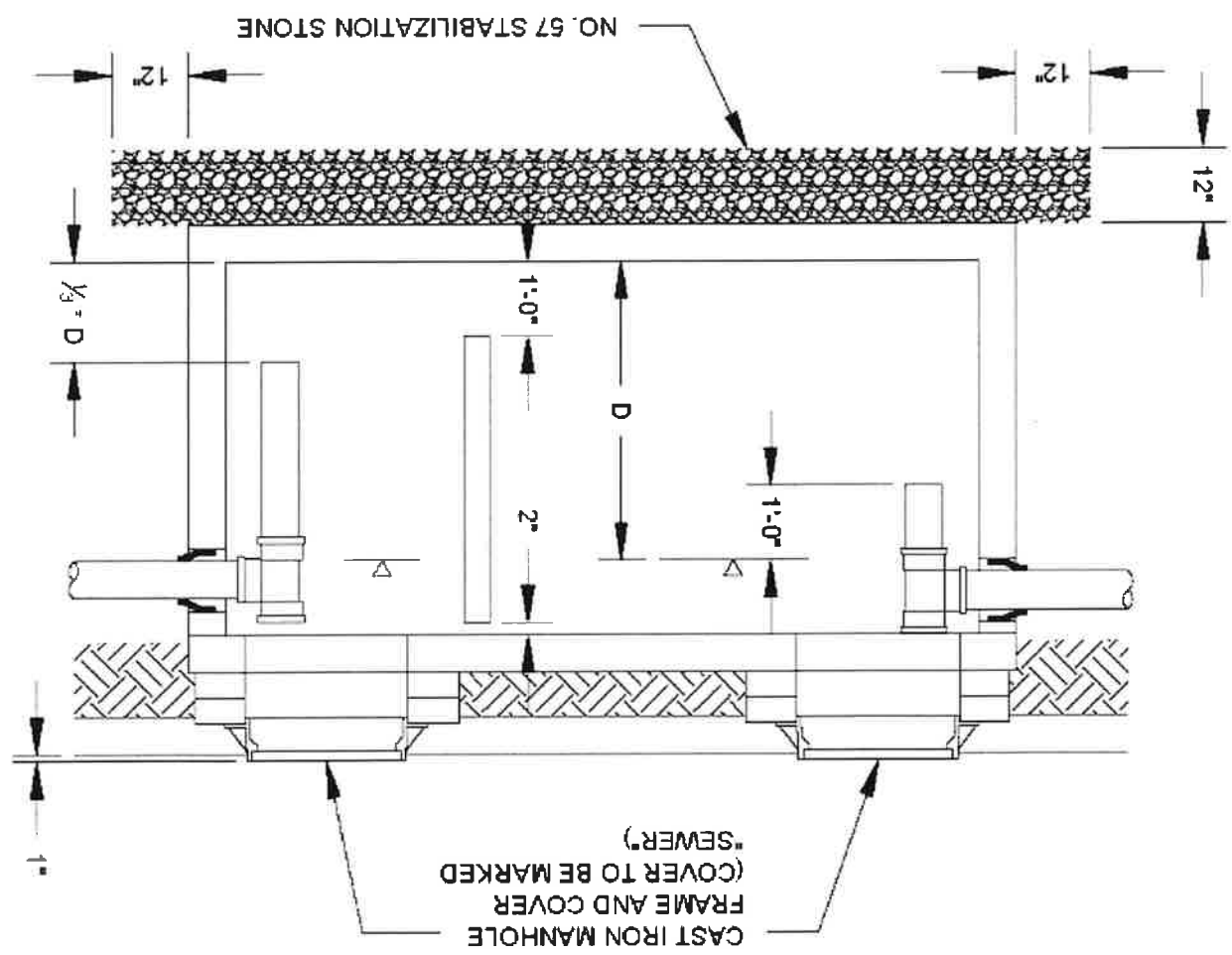
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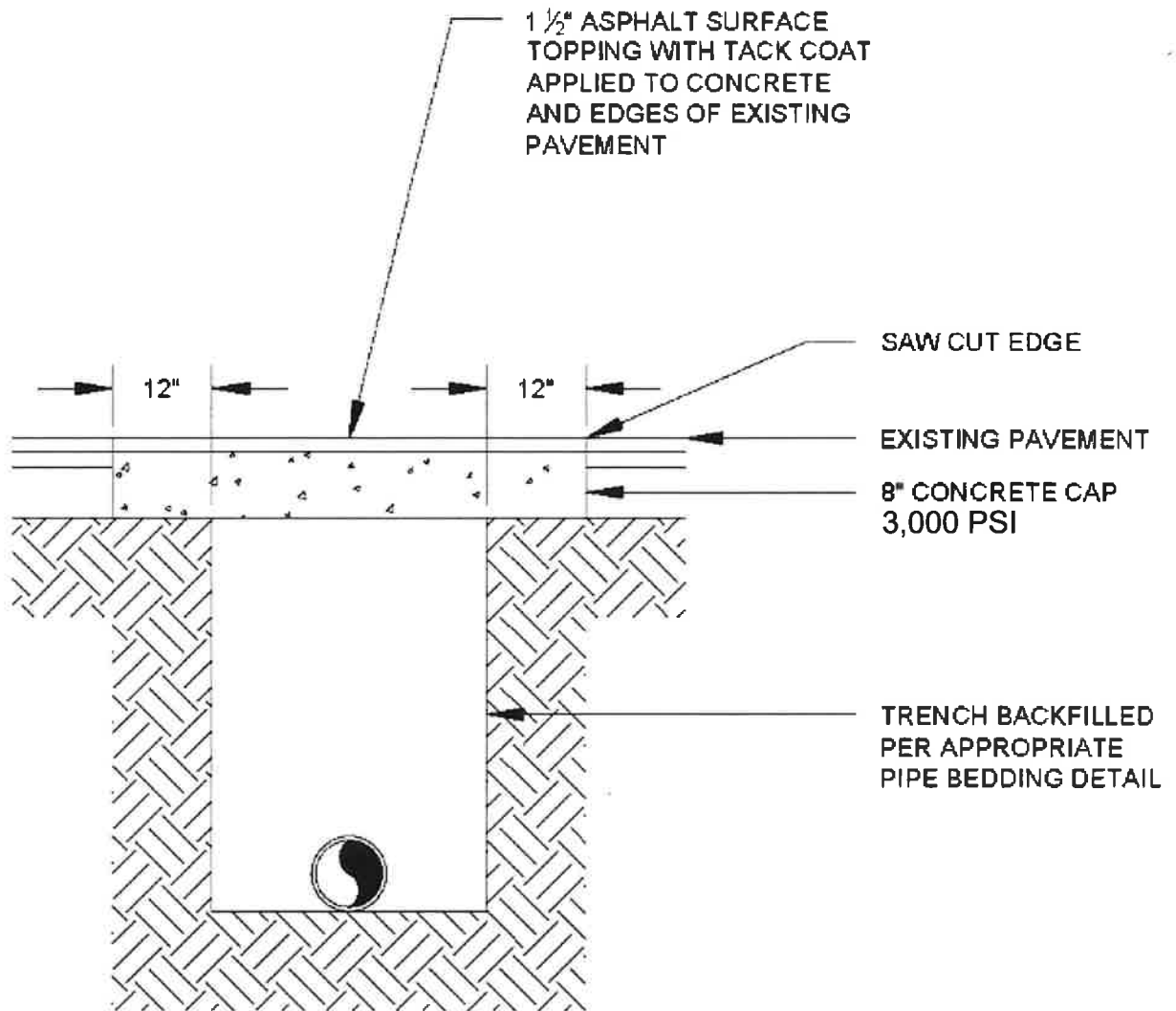
SCALE: N.T.S.

DATE: 09/30/2022

1. GREASE INTERCEPTOR SHALL HAVE A MINIMUM CAPACITY OF 1,500 GALLONS AND A MAXIMUM CAPACITY OF 3,000 GALLONS. IF REQUIRED CAPACITY IS GREATER THAN 3,000 GALLONS, MULTIPLE GREASE INTERCEPTORS SHALL BE USED.
2. CONCRETE DESIGN STRENGTH SHALL BE 4,000 PSI @ 28 DAYS.
3. GREASE INTERCEPTOR SHALL BE HS-20 LOAD RATED.

## NOTES:





**NOTES:**

1. THIS DETAIL IS THE MINIMUM PAVEMENT REPAIR REQUIREMENT. HENRY COUNTY DOT OR GEORGIA DOT PAVEMENT REPAIR DETAILS SHALL SUPERCEDE THIS DETAIL AND SHALL BE USED WHERE APPLICABLE.
2. CONCRETE FOR CONCRETE CAP SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS.



CITY OF HAMPTON

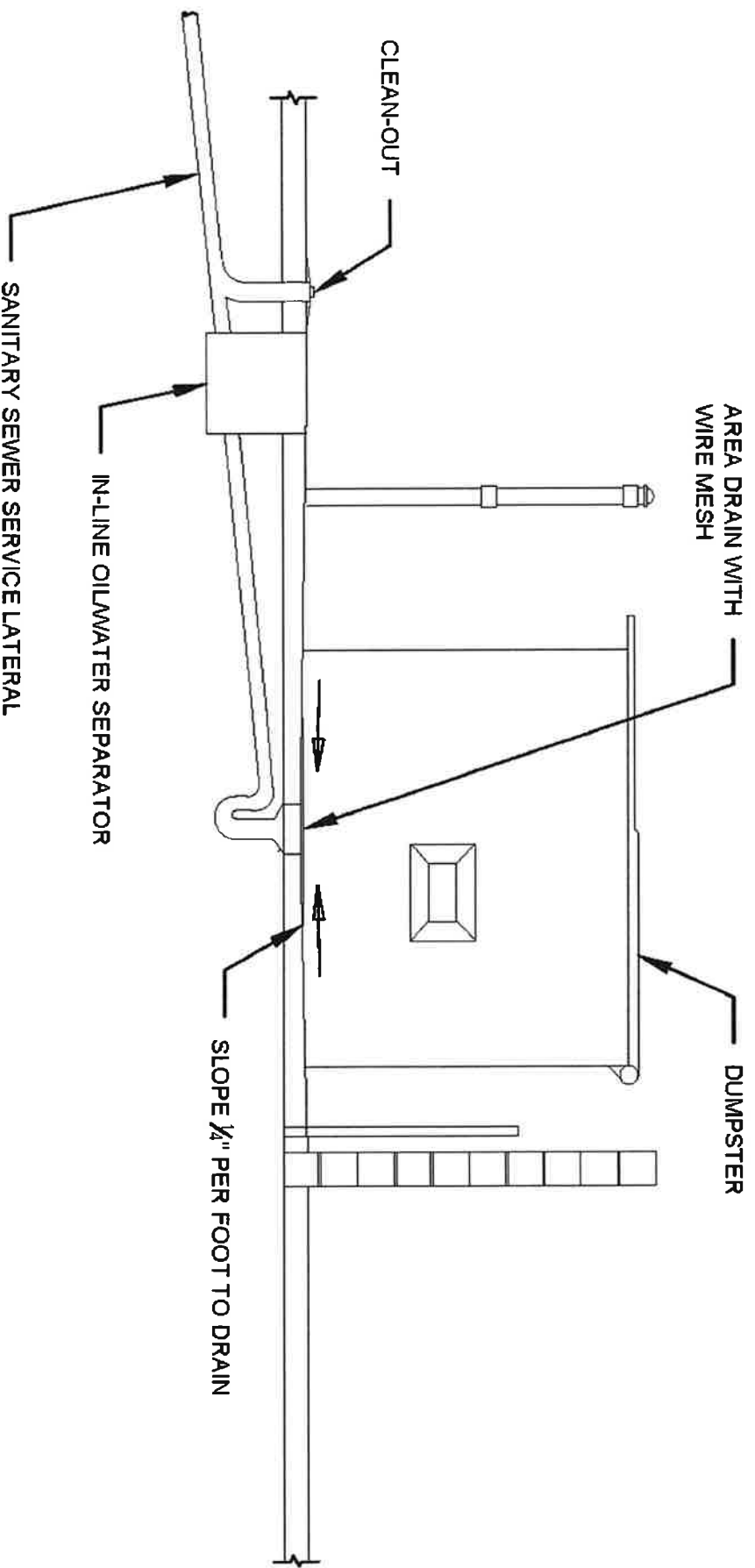
**PAVEMENT REPAIR**

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S34**



NOTES:

1. THE OILWATER SEPARATOR THAT IS USED SHALL BE PRE-APPROVED



CITY OF HAMPTON

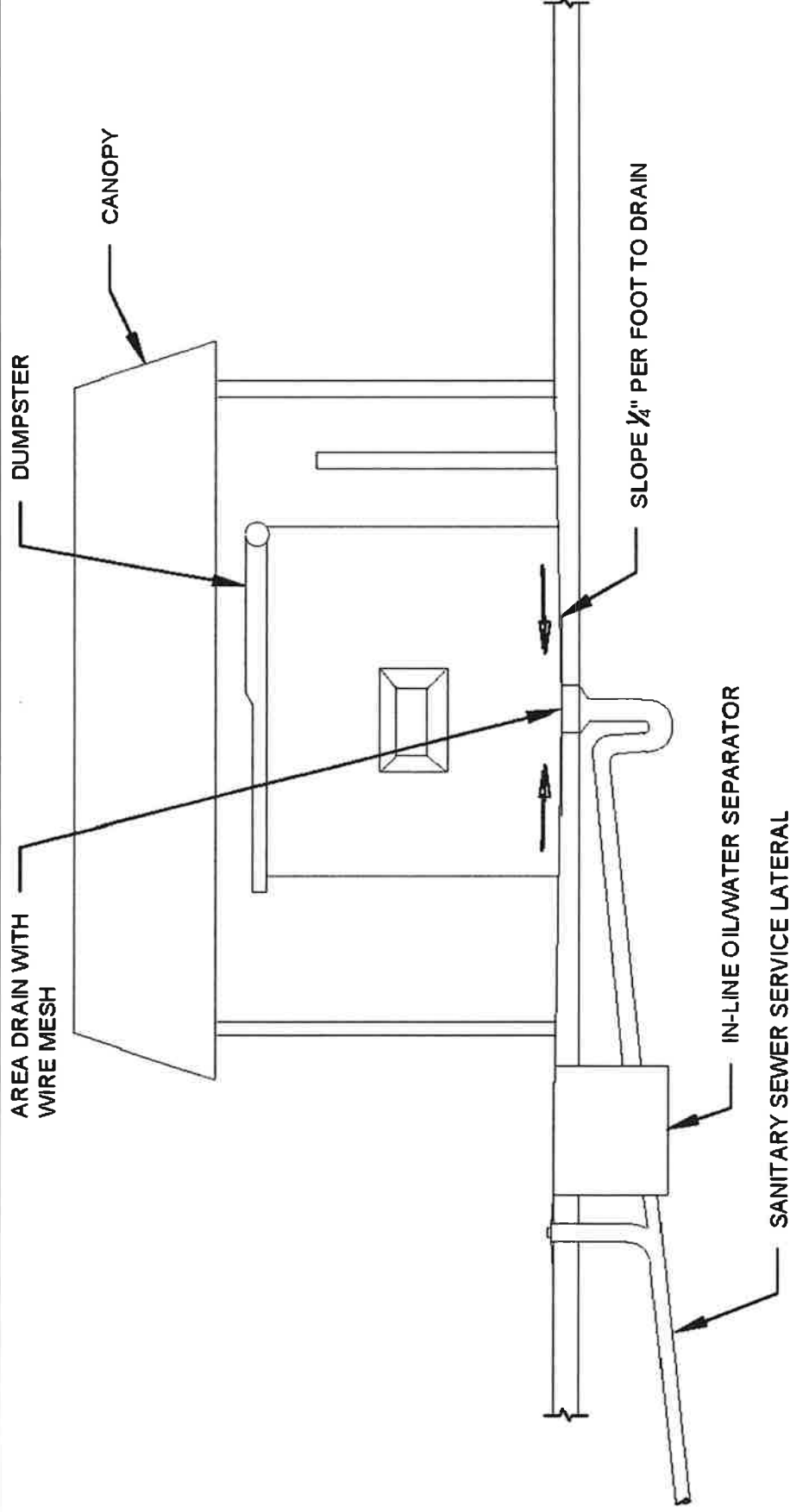
# SANITARY SEWER CONNECTION FOR DUMPSTER PAD WITHOUT CANOPY

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S35**



NOTES:

1. THE OILWATER SEPARATOR THAT IS USED SHALL BE PRE-APPROVED
2. CANOPY SHALL BE APPROVED



CITY OF HAMPTON

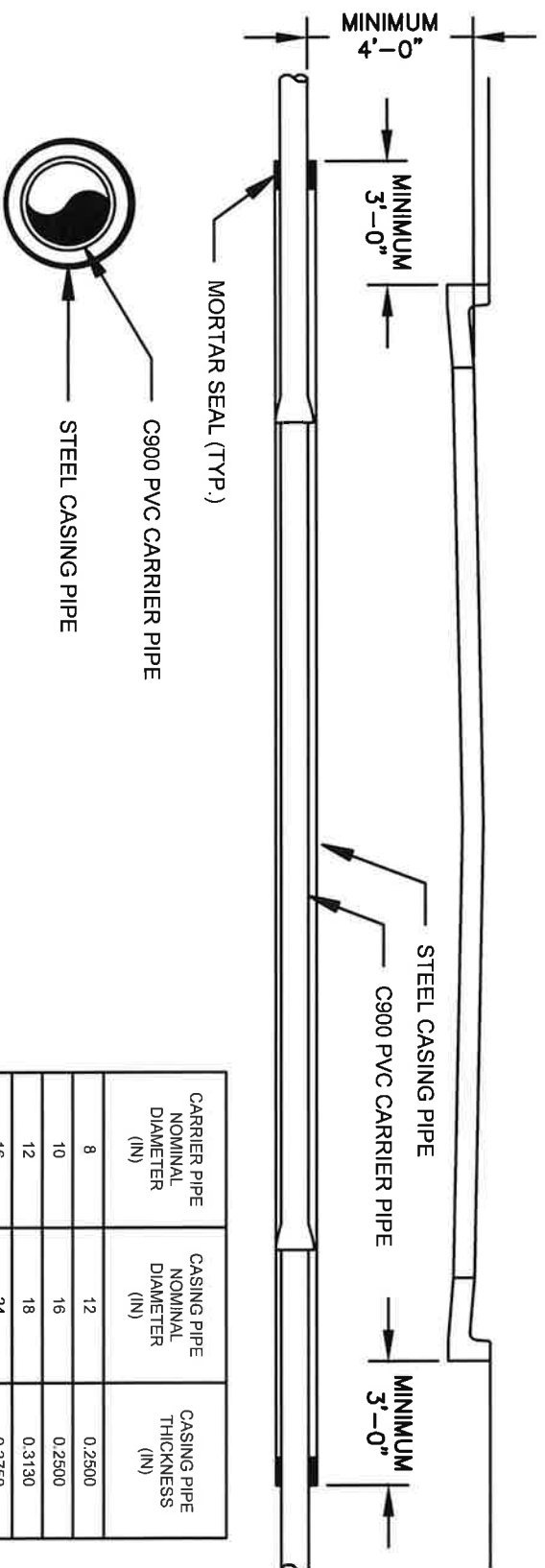
# SANITARY SEWER CONNECTION FOR DUMPSTER WITH CANOPY

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S36**



| CARRIER PIPE<br>NOMINAL<br>DIAMETER<br>(IN) | CASING PIPE<br>NOMINAL<br>DIAMETER<br>(IN) | CASING PIPE<br>THICKNESS<br>(IN) |
|---------------------------------------------|--------------------------------------------|----------------------------------|
| 8                                           | 12                                         | 0.2500                           |
| 10                                          | 16                                         | 0.2500                           |
| 12                                          | 18                                         | 0.3130                           |
| 16                                          | 24                                         | 0.3750                           |

**NOTES:**

1. ENDS OF CASING PIPE SHALL BE SEALED WITH CEMENT MORTAR.
2. ALL LOCAL ROAD CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH HENRY COUNTY DOT OR CITY OF HAMPTON STANDARDS AND PERMIT REQUIREMENTS AS APPLICABLE.
3. ALL STATE HIGHWAY CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH GEORGIA DOT STANDARDS AND PERMIT REQUIREMENTS.
4. ALL RAILROAD CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION REGULATIONS AND IN ACCORDANCE WITH PERMIT REQUIREMENTS.
5. INSTALL APPROVED CASING SPACERS @ 10' O.C.

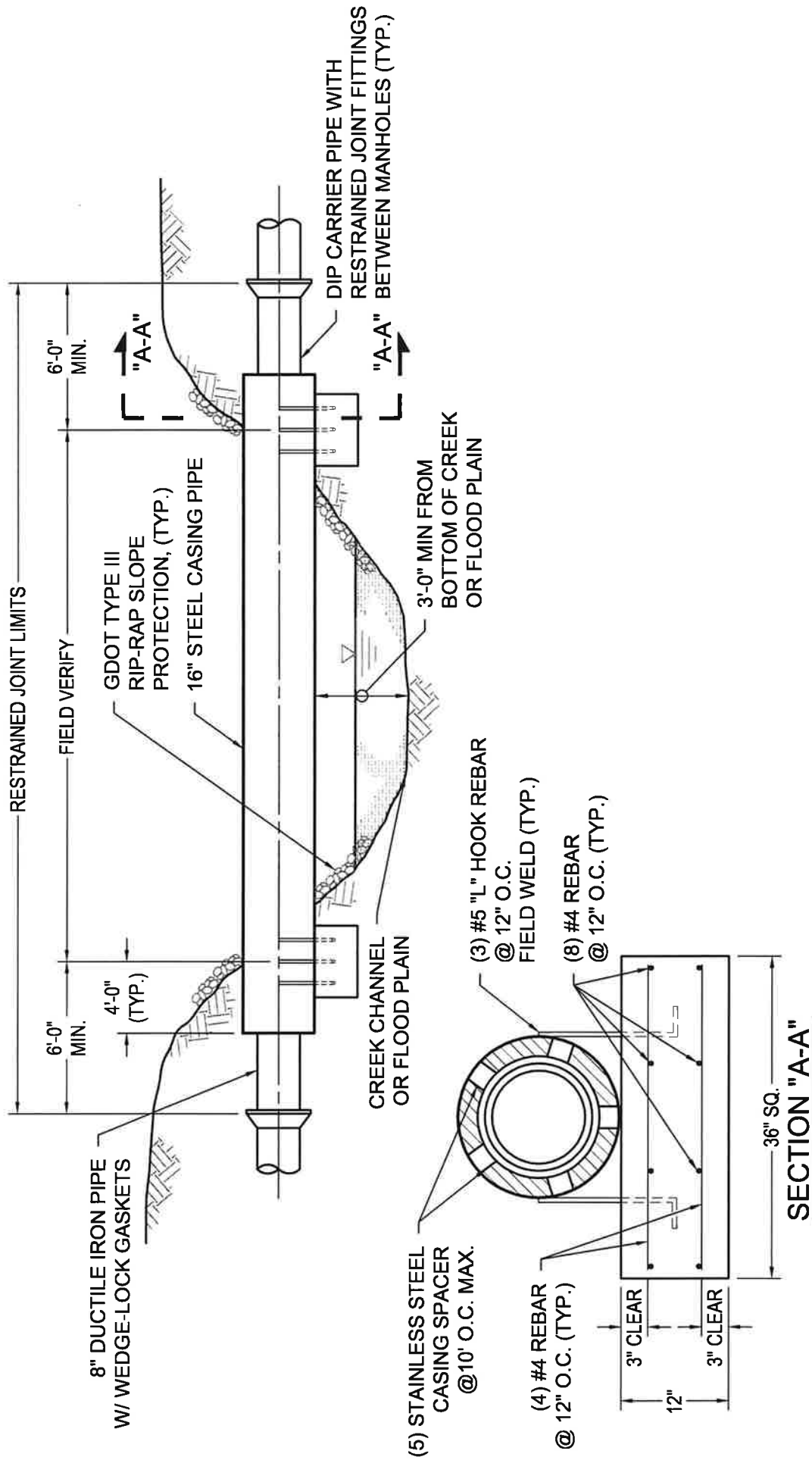


CITY OF HAMPTON

# TYPICAL JACK AND BORE DETAIL SANITARY SEWER FORCE MAIN

REVISED: 09/30/2022  
SCALE: N.T.S.  
DETAIL NO.

S37



CITY OF HAMPTON



# AERIAL PIPE CROSSING STEEL CASING PIPE ELEVATION

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

S38



# SANITARY SEWER SERVICE AT MANHOLE WITH CLEAN-OUT

CITY OF HAMPTON

DATE: 09/30/2022

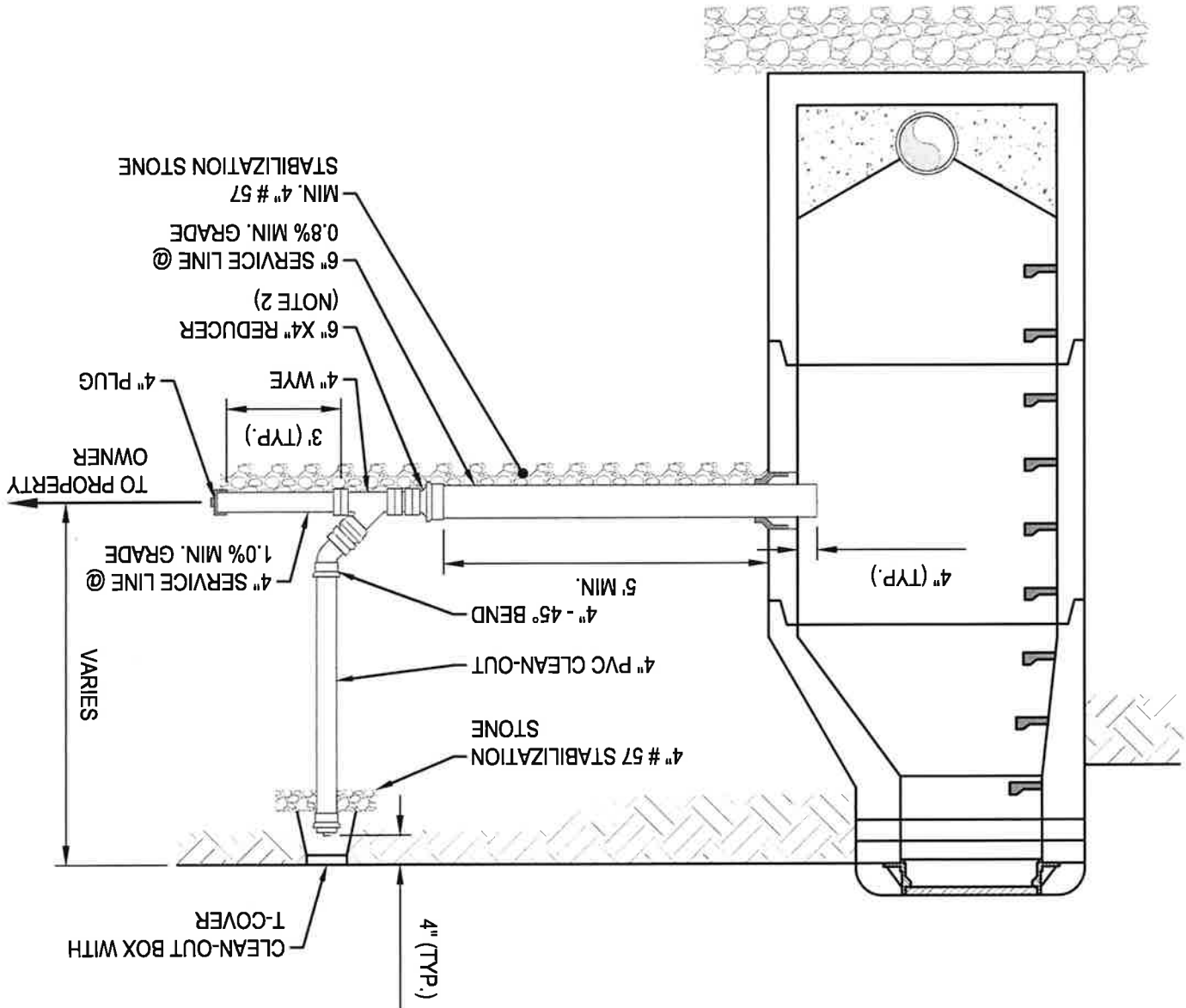
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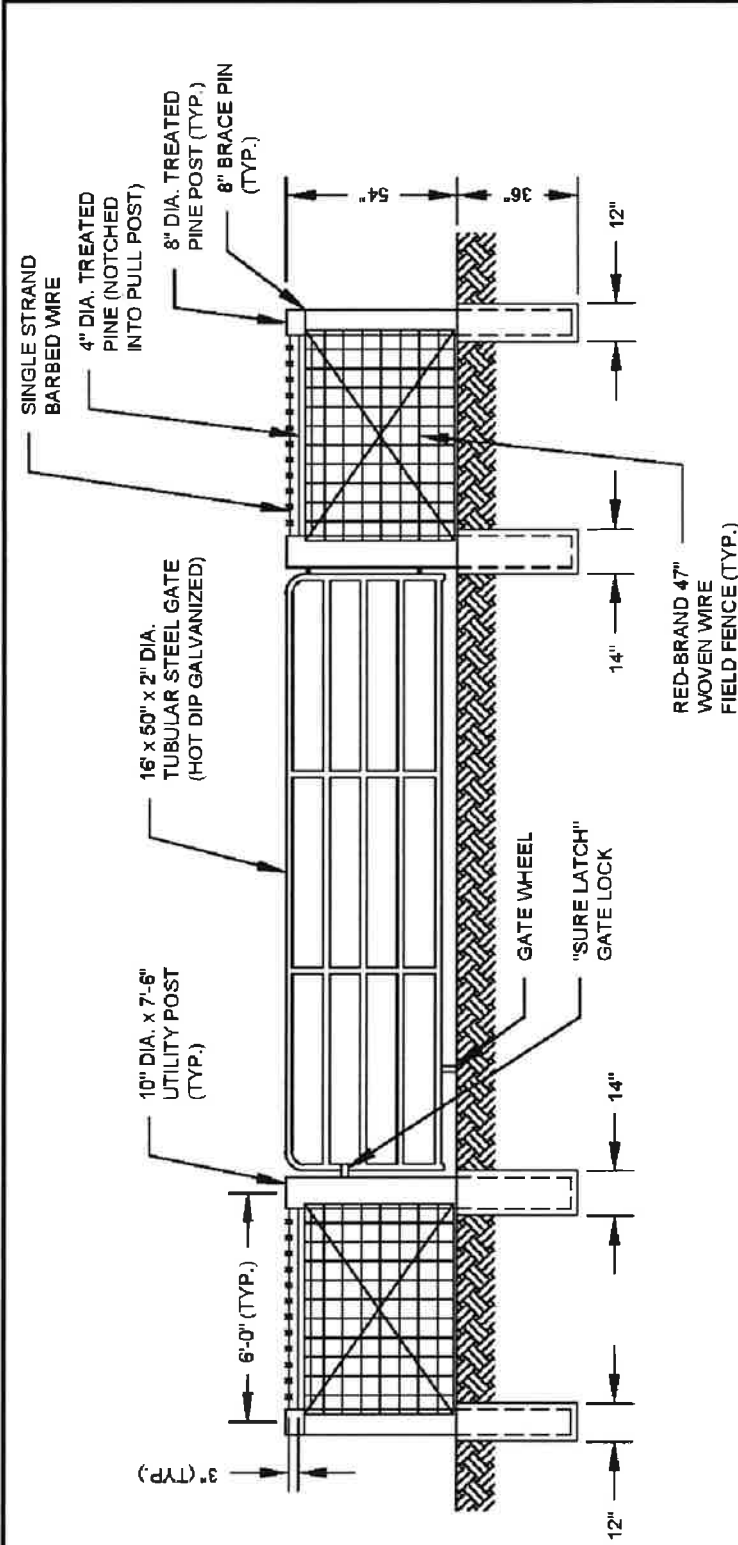
DETAIL #:

S39

## NOTES:

1. A SEWER TAP INSPECTION IS REQUIRED.
2. PLUMBING CONTRACTOR SHALL TIE ON TO SERVICE LINE USING STANDARD PVC FITTINGS OR "DONUT" CONNECTION.
3. ALL SERVICE CONNECTIONS TO MANHOLE SHALL BE CORED AND SEALED WITH APPROVED RUBBER BOOT OR NON-SHRINK HYDRAULIC GROUT.





NOTES:

1. FENCE POSTS SHALL BE EMBEDDED IN CLASS "B" CONCRETE.
2. WOVEN WIRE FIELD FENCE SHALL BE ATTACHED TO FENCE POSTS WITH 1 1/2" GALVANIZED STAPLES.



CITY OF HAMPTON

# SEWER EASEMENT ACCESS GATE

DATE: 09/30/2022

SCALE: N.T.S.

DETAIL #:

**S40**