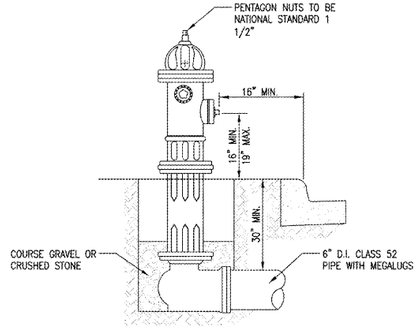
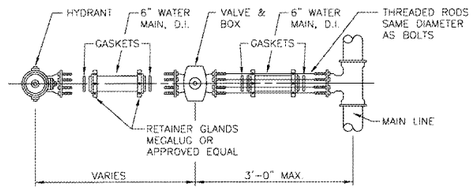


NOTES:

1. HYDRANTS TO BE SET WITH BURY LINE POSITIONED AT GRADE WITH NOZZLES AT MIN. OF 16 INCHES ABOVE GROUND.
2. WHEN SET BEHIND CURB THE NOZZLES ARE TO BE PARALLEL OR AT RIGHT ANGLES TO THE CURB, WITH THE PUMPER NOZZLE FACING THE CURB. THE PUMPER NOZZLE WILL BE A MIN. DISTANCE OF 16 INCHES FROM THE FACE OF THE CURB.
3. HYDRANT MUST HAVE SAFETY BREAKAWAY FEATURE SUCH AS MUELLER CENTURIAN 250 A421 OR APPROVED EQUAL.
4. 6" DUCTILE IRON CLASS 52 FROM TEE TO HYDRANT. VALVE TO BE RODDED TO TEE. VALVE & HYDRANT TO HAVE MEGALUGS.
5. COARSE GRAVEL OR CRUSHED STONE IS TO BE PLACED FROM THE BOTTOM OF THE TRENCH TO AT LEAST 6 INCHES ABOVE THE DRAIN OPENINGS IN THE HYDRANT AND AT A DISTANCE OF ONE FOOT AROUND THE ELBOW.

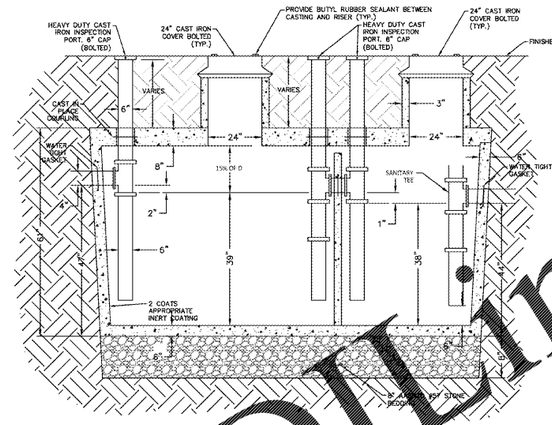
	CITY OF NORFOLK – DEPARTMENT OF UTILITIES STANDARD DETAILS	SCALE: NOT TO SCALE
DATE: 08/12	FIRE HYDRANT INSTALLATION	DRAWING NO. CW 04



NOTE:

1. ALL HYDRANT CONNECTIONS MUST BE FIELD INSPECTED, BY A CITY INSPECTOR, PRIOR TO BACKFILLING.
2. ALL PIPE BETWEEN TEE AND FIRE HYDRANT SHALL BE DUCTILE IRON CLASS 52. VALVE SHALL BE RODDED TO SERVICE TEE. VALVE AND HYDRANT SHALL HAVE MEGALUGS OR APPROVED EQUAL.

	CITY OF NORFOLK – DEPARTMENT OF UTILITIES STANDARD DETAILS	SCALE: NOT TO SCALE
DATE: 03/07	FIRE HYDRANT CONNECTION	DRAWING NO. CW 05



ALL INLET AND OUTLET PIPES SHALL BE INSTALLED NO MORE THAN 6" FROM THE BOTTOM OF THE GREASE TRAP. TANK TAPERS TOP TO BOTTOM AND IS TRAPEZOIDAL IN CROSS SECTION.
TANK IS 5000 PSI CONCRETE-STEEL REINFORCED (@ 28 DAYS) CONCRETE CONFORMS TO ACI 318-14 AND ASTM C 318-14-5.2, ASTM A615 AND A185

DIMENSION: 10'7" INTERIOR/ 11'7" EXTERIOR LENGTH x 5'2" INTERIOR/ 6'2" EXTERIOR WIDTH

NOTES:

1) WHEN LOCATED IN DRIVEWAYS OR PAVED AREAS, GREASE TRAP TO BE DESIGNED FOR APPROPRIATE H-20 LOAD BEARING CONDITIONS. GREASE TRAP SHALL BE CAPABLE OF WITHSTANDING H-20 LOADING.

2) ALL PIPE PENETRATIONS SHALL BE WATERTIGHT.

3) GREASE TRAP SHALL BE PROVIDED WITH GAS-TIGHT MANHOLE COVERS, IN ACCORDANCE WITH THE TOWNSHIP STANDARD SPECIFICATIONS.

4) PRECAST CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH 5000 PSI.

5) EXTERIOR CONCRETE SURFACES BELOW GRADE SHALL BE COATED WITH COAL TAR EPOXY.

6) SPECIFIC TECHNIQUES FOR CONCRETE RISER TO CONCRETE TANK INTERFACE SHALL BE WATERTIGHT. AT A MINIMUM, ALL JOINT SURFACE SHALL BE SEALED WITH BUTYL RUBBER SEALANT (KENT SEAL #2 OR APPROVED EQUIVALENT) AND THE EXTERIOR CONCRETE JOINT SHALL BE SEALED WITH NON-SHRINK GROUT IN CONFORMANCE WITH THE TOWNSHIP STANDARD GREASE TRAP DETAIL.

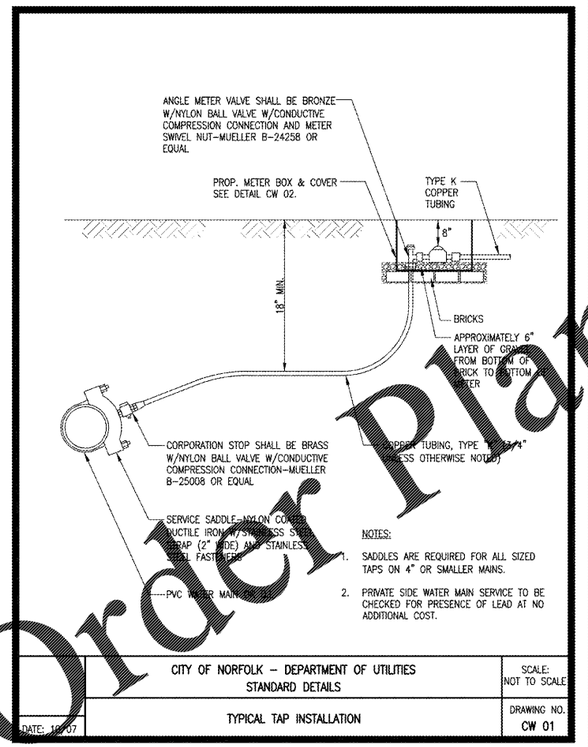
7) TANK SHALL BE TESTED FOR WATER TIGHTNESS BY FILLING FOR 24 HRS. TO SOAK, THEN TOPPED OFF, AND THEN MONITORED FOR 24 HRS. NO DROP IN WATER IS ALLOWED.

8) RISER SHALL BE SEALED TO CONCRETE WITH MASTIC TAPE (KENT SEAL OR APPROVED EQUIVALENT)

9) MANHOLE COVER=5.0', H5-20 LOADING.

10) INLET AND OUTLET EQUIPPED WITH PIPE SEALS.

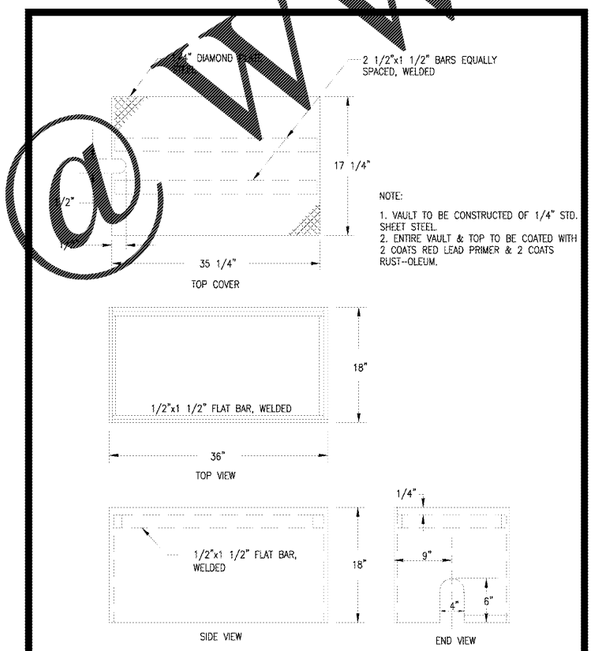
GREASE TRAP DETAIL
NTS



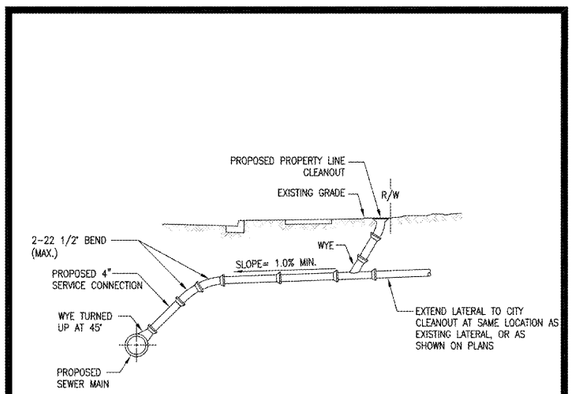
NOTES:

1. SADDLES ARE REQUIRED FOR ALL SIZED TAPS ON 4" OR SMALLER MAINS.
2. PRIVATE SIDE WATER MAIN SERVICE TO BE CHECKED FOR PRESENCE OF LEAD AT NO ADDITIONAL COST.

	CITY OF NORFOLK – DEPARTMENT OF UTILITIES STANDARD DETAILS	SCALE: NOT TO SCALE
DATE: 10/07	TYPICAL TAP INSTALLATION	DRAWING NO. CW 01



	CITY OF NORFOLK – DEPARTMENT OF UTILITIES STANDARD DETAILS	SCALE: NOT TO SCALE
DATE: 03/07	WATER METER VAULT & TOP	DRAWING NO. CW 03



TYPICAL WYE/LATERAL LAYOUT

NOTES:

1. LOCATION OF Y, CLEANOUT, AND END OF PIPE MAY BE VARIED BY INSPECTOR IF NECESSARY BECAUSE OF UNUSUAL DEPTH OR CONDITIONS. D.I. MAIN REQUIRES WYE OR TEE IN COMPLIANCE WITH A.N.S.I. A 21.10 LATEST REVISION. LATERAL PIPING SHALL MATCH MAIN LINE PIPE.
2. WHERE CONTRACTOR IS RE–CONNECTING EXIST. SANITARY LATERALS TO MAIN LINE PIPING, 2–22 1/2" BENDS SHALL BE INSTALLED TO MAKE CONNECTION IF NECESSARY. CONTRACTOR WILL BE REQUIRED TO REMOVE & REPLACE AS MUCH OF THE EXISTING LATERAL NECESSARY TO ENSURE THAT THE PROPOSED CONNECTION IS MADE IN ACCORDANCE WITH THE DETAIL AT NO ADDITIONAL COST TO THE CITY, INCLUDING MISC. RIGHT OF WAY AND PRIVATE PROPERTY IMPROVEMENTS.

	CITY OF NORFOLK – DEPARTMENT OF UTILITIES STANDARD DETAILS	SCALE: NOT TO SCALE
DATE: 07/13	TYPICAL WYE/LATERAL LAYOUT AND PROPERTY LINE CLEANOUT	DRAWING NO. CS 11

NO.	REVISIONS	DATE	BY

Kimley»Horn

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COMMONWEALTH OF VIRGINIA
J. RANDALL ROYAL
Lic. No. 14950
9/24/18
PROFESSIONAL ENGINEER

KHA PROJECT 116607003	DATE 08/24/2018	SCALE AS SHOWN	DESIGNED BY LEY	DRAWN BY LEY	CHECKED BY JV

UTILITY DETAILS

WAWA AT NEWTOWN AND STONEY POINT
PREPARED FOR WAWA
CITY OF NORFOLK VIRGINIA

SHEET NUMBER
CU-501

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