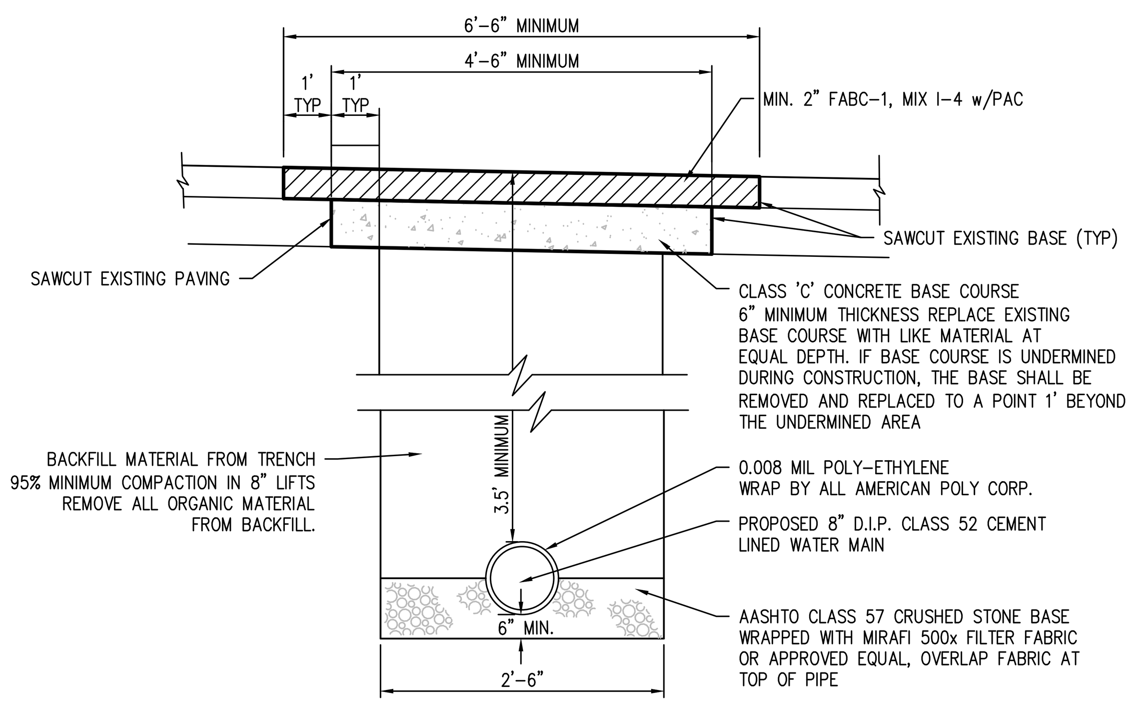
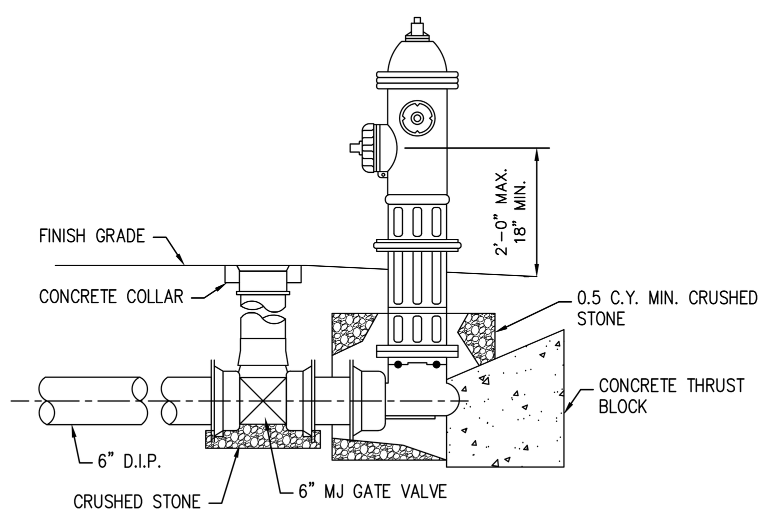
CREATED ON 10/22/2024, LAST MODIFIED ON 11/02/2024



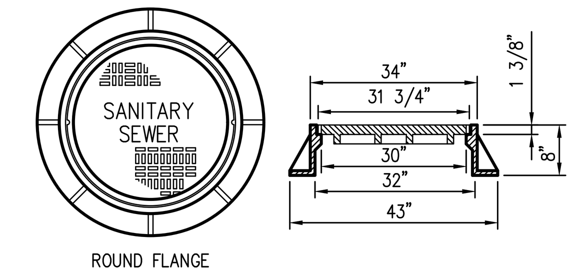
TRENCH NOTES

1. SHEETING SHALL BE USED AT LOCATIONS REQUIRED BY O.S.H.A. STANDARDS AND SHALL CONFORM TO THE REQUIREMENTS OF THE CONSTRUCTION SAFTY CODE OF THE STATE OF NEW JERSEY DEPARTMENT OF LABOR AND INDUSTRY, BUT IN NO CASE SHALL SHEETING REQUIREMENTS BE LESS STRINGENT THAN REQUIRED BY ATLANTIC CITY ORDINANCE #60.
2. SHEETING MAY BE PULLED, PROVIDED THAT PULLING WILL NOT ADVERSELY AFFECT BEDDING AND COMPACTION.
3. THE PAYMENT LIMIT FOR THE EXCAVATION & BACKFILL OF THE WATER MAIN TRENCH SHALL BE MAXIMUM OF 2'-6". THE PAYMENT LIMIT FOR THE EXCAVATION & BACKFILL OF THE WATER SERVICE TRENCH SHALL BE A MAXIMUM OF 1'-0".
4. STONE BEDDING AND FABRIC SHALL BE USED FOR THE WATER MAINS ONLY

UTILITY TRENCH REPAIR DETAIL
N.T.S.



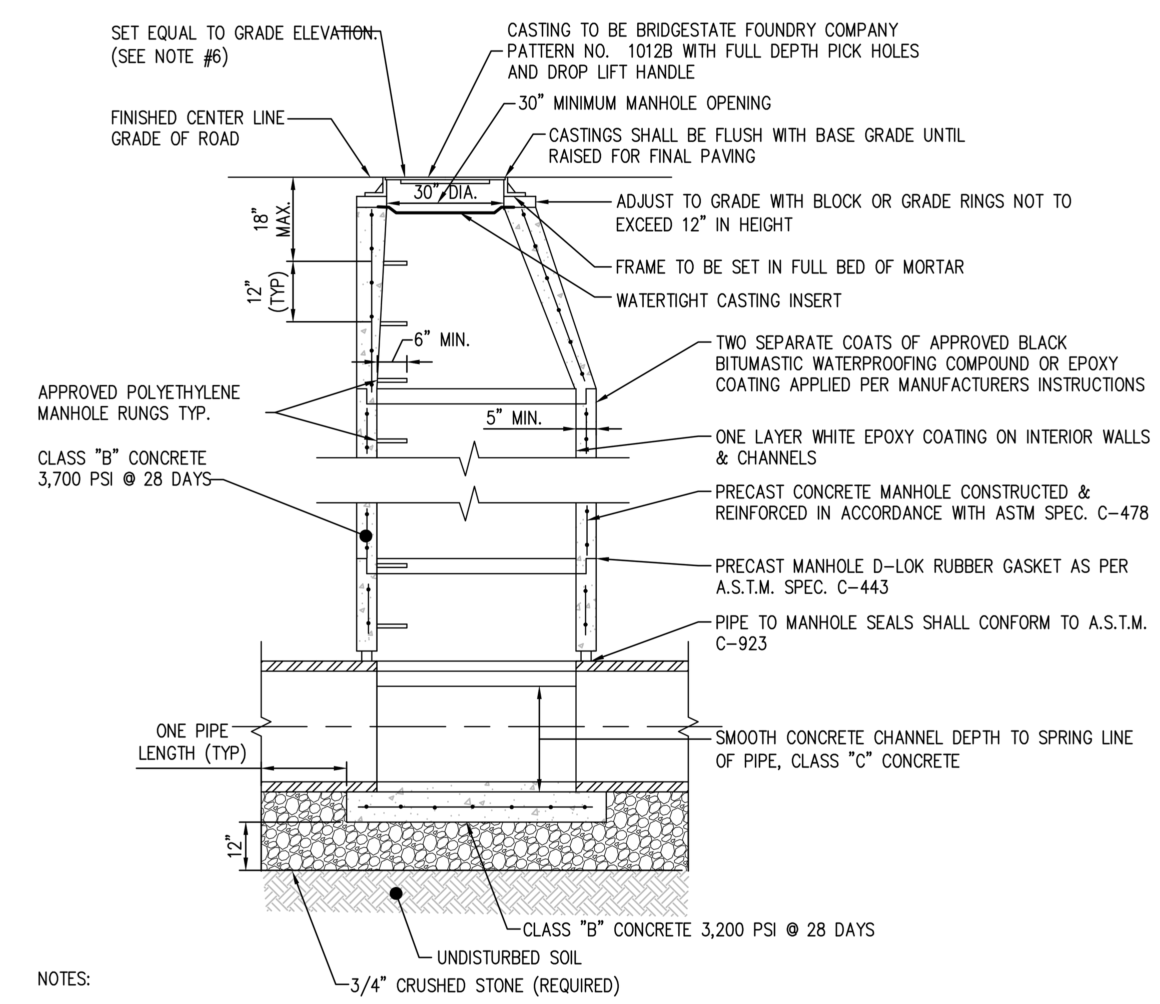
NEW JERSEY AMERICAN WATER TYPICAL HYDRANT DETAIL
N.T.S.



BRIDGESTATE FOUNDRY CORPORATION PATTERN NUMBER 1012B

MANHOLE FRAMES AND COVERS SHALL CONFORM TO ASTM A48, CLASS 30 OR DUCTILE IRON CONFORMING TO ASTM 5336 AND SHALL BE SUITABLE FOR H-20 LOADING CAPACITY.

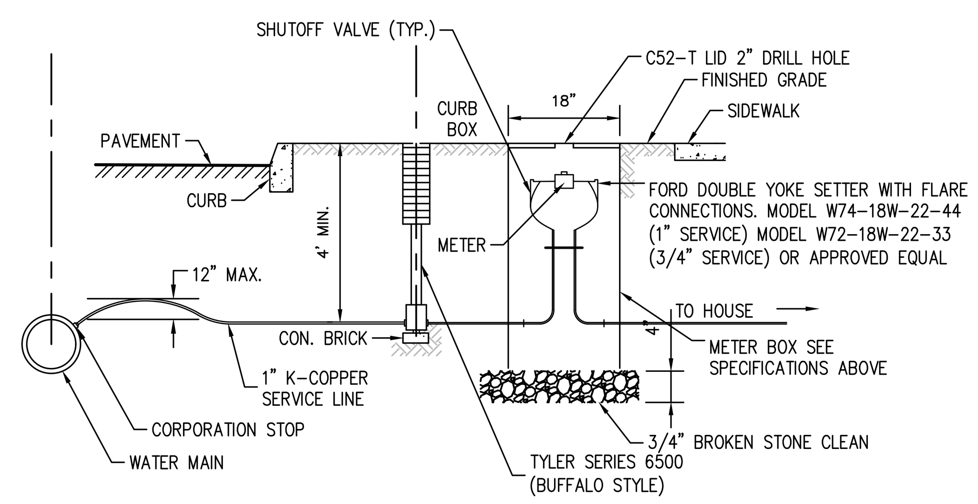
MANHOLE RIM DETAIL
N.T.S.



NOTES:

1. IN GENERAL, FLAT TOP MANHOLES ARE NOT ACCEPTED UNLESS OTHERWISE AUTHORIZED BY THE MOORESTOWN M.U.A. ENGINEER IN WRITING.
2. CRUSHED CONCRETE AND ASPHALT ARE NOT ACCEPTABLE SUBSTITUTES FOR CRUSHED STONE BASE.
3. BRIDGESTATE PATTERN NO. 1203A IS NOT ACCEPTABLE.
4. RING RISERS ARE NOT PERMITTED FOR ADJUSTMENT OF FINAL GRADE CASTINGS, PER ENGINEERS APPROVAL. RINGS MUST BE TACK WELDED (4-LOCATIONS) TO CASTINGS.
5. THERE IS TO BE ONE LAYER OF WHITE EPOXY COATING ON THE INTERIOR OF THE MANHOLE WALLS AND CHANNELS.
6. RIM ELEVATION FOR THE MANHOLE CASTING SHALL BE SET EQUAL TO THE BASE COURSE GRADE ELEVATION, AND SUBSEQUENTLY RAISED TO THE TOP COURSE ELEVATION ONCE THE PAVING IS INSTALLED.

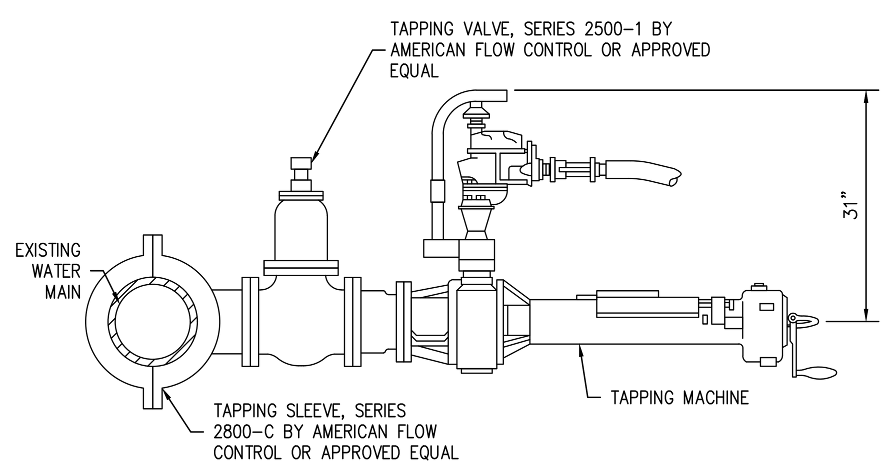
SANITARY SEWER PRECAST MANHOLE DETAIL
N.T.S.



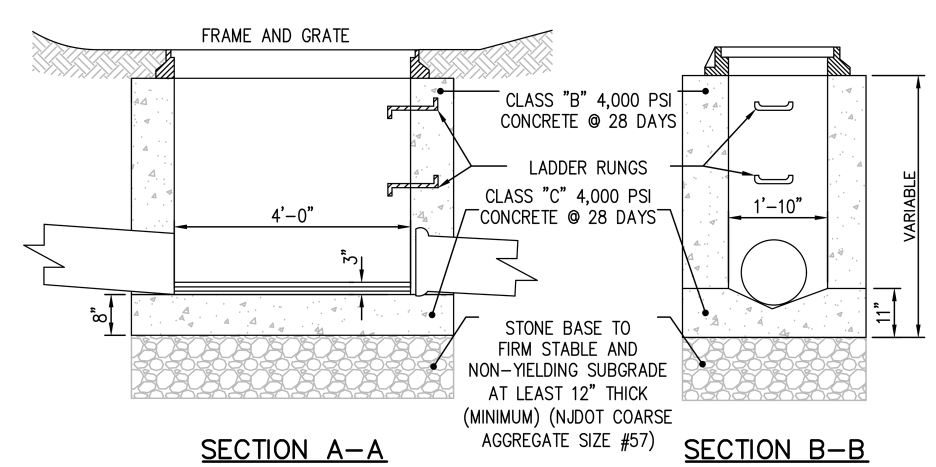
NOTES:

1. METER PIT AND CURB BOX MUST BE INSTALLED BETWEEN THE CURB AND SIDEWALK. METER SHALL BE INSTALLED 18" BELOW FINISHED GRADE.
2. METER SHALL MEET APPROVAL OF ACMUA.

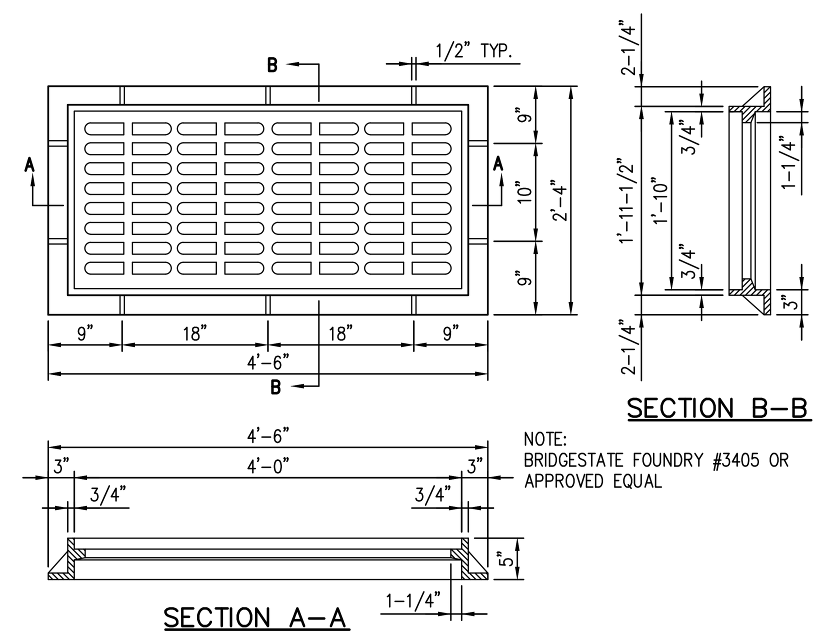
WATER SERVICE AND METER PIT DETAIL
N.T.S.



WET TAP CONNECTION DETAIL
N.T.S.

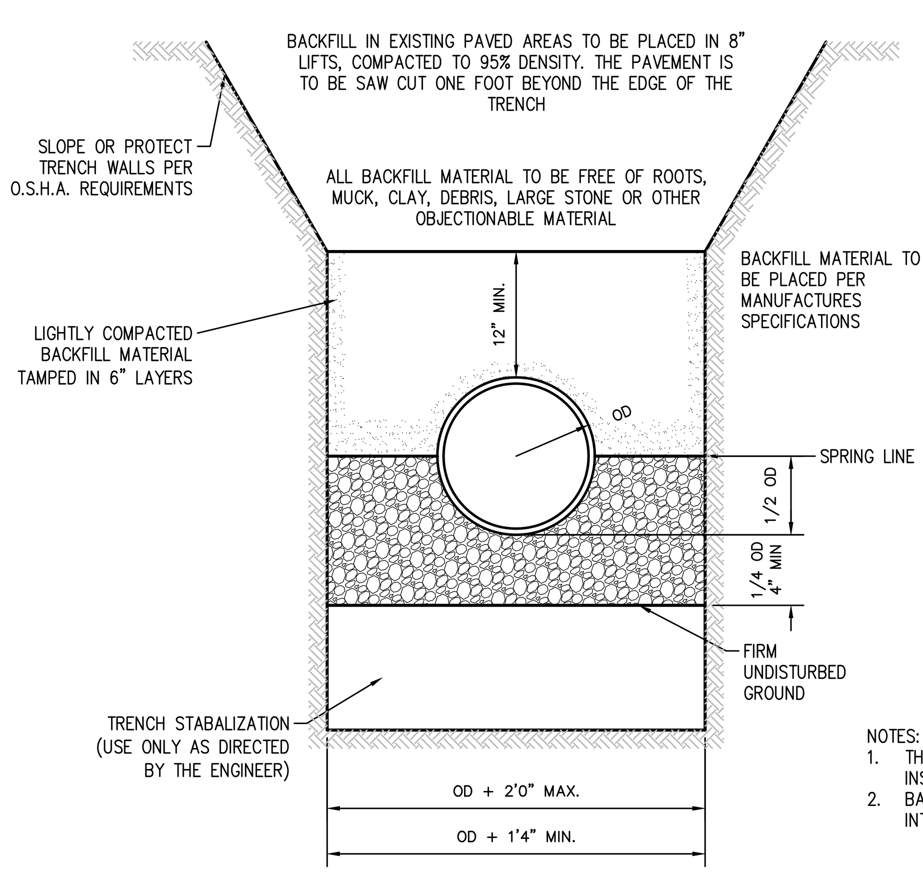


TYPE "A" NJDOT INLET DETAIL
N.T.S.



NOTE:
BRIDGESTATE FOUNDRY #3405 OR APPROVED EQUAL

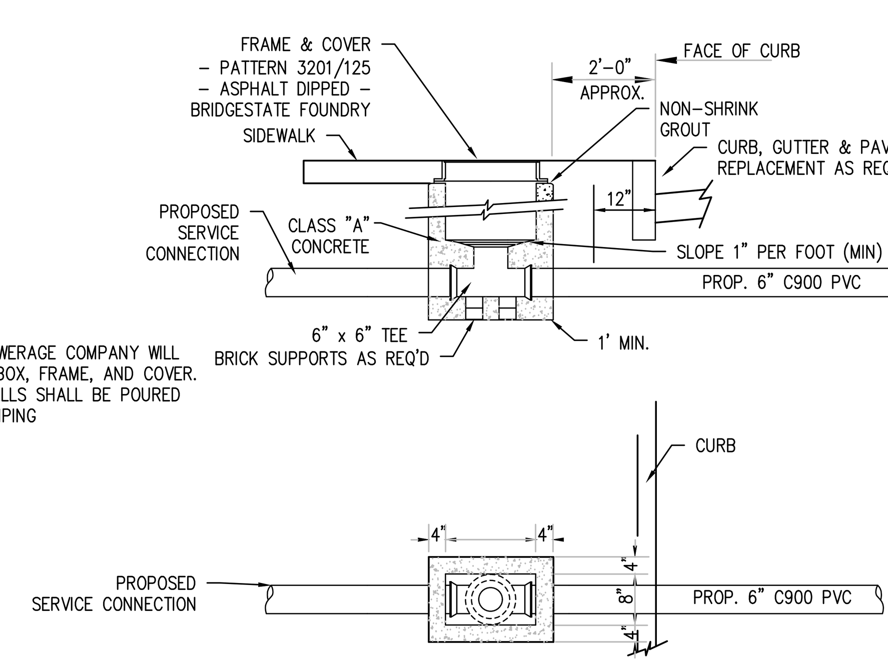
TYPE "A" BICYCLE SAFE INLET GRATE DETAIL
N.T.S.



NOTES:
1. OD = OUTSIDE DIAMETER

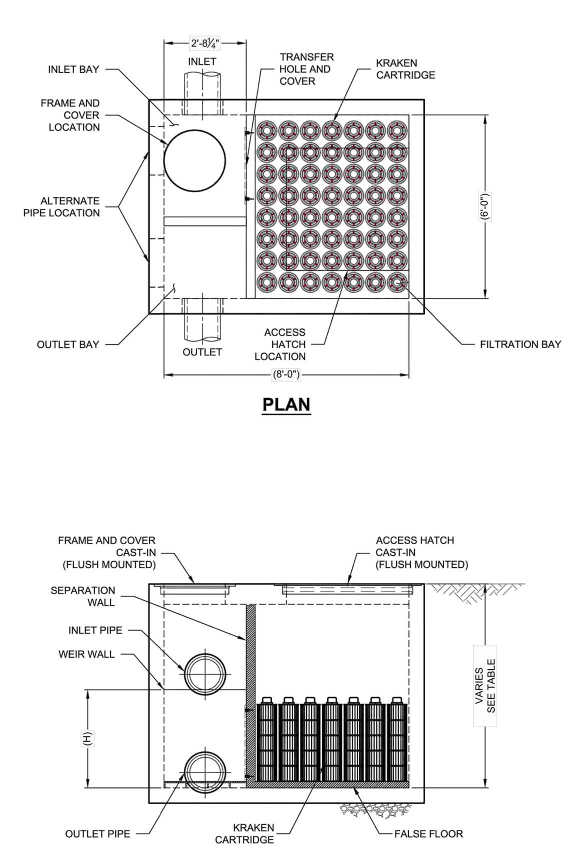
2. INSTALL CLASS 52 D.I.P. WHEN THE DEPTH OF THE INSTALLATION IS LESS THAN 3'0" OR EXCEEDS 20'0".

SDR - 35 PVC SANITARY SEWER TRENCH DETAIL
N.T.S.



NOTES:
1. THE ATLANTIC CITY SEWERAGE COMPANY WILL INSTALL THE SERVICE BOX, FRAME, AND COVER.
2. BASE SECTION AND WALLS SHALL BE POURED INTEGRALLY AROUND PIPING

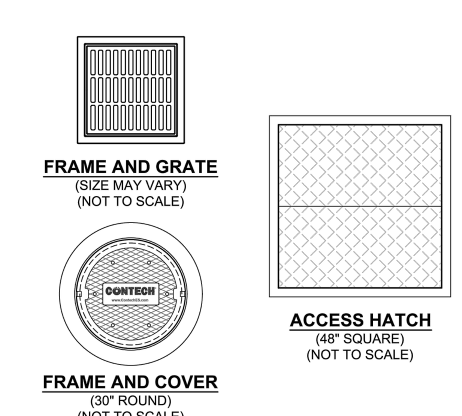
SERVICE BOX DETAIL
N.T.S.



KRAKEN FILTER DESIGN NOTES

- KRAKEN FILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCALLY APPROVED SURFACE AREA SPECIFIC FLOW RATE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD
- A 6' x 8' PEAK DIVERSION STYLE KRAKEN FILTER IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (56) AND IS AVAILABLE IN A LEFT INLET (AS SHOWN) OR A RIGHT INLET CONFIGURATION
- ALL PARTS AND INTERNAL ASSEMBLY PROVIDED BY CONTECH UNLESS NOTED OTHERWISE

CARTRIDGE HEIGHT	30"	20"	10"
RECOMMENDED HYDRAULIC DROP (H)	38.5"	28.5"	18.5"
SPECIFIC FLOW RATE (gpm/sf)	0.10	0.10	0.10
CARTRIDGE FLOW RATE (gpm)	17	10.6	4.9



FRAME AND GRATE
(SIZE MAY VARY)
(NOT TO SCALE)

FRAME AND COVER
(30" ROUND)
(NOT TO SCALE)

ACCESS HATCH
(48" SQUARE)
(NOT TO SCALE)

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (cfs)			
PEAK FLOW RATE (cfs)			
RETURN PERIOD OF PEAK FLOW (yrs)			
CARTRIDGE FLOW RATE			
CARTRIDGE SIZE (30", 20", 10")			
NUMBER OF CARTRIDGES REQUIRED			
INLET BAY RIM ELEVATION			
FILTER BAY RIM ELEVATION			
PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			
NOTES/SPECIAL REQUIREMENTS:			

RIM TO SYSTEM INVERT

CARTRIDGE SIZE	MIN. HEIGHT	MAX. HEIGHT
10" & 20"	3'-6"	4'-10"
30"	4'-2"	4'-10"

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.ContechES.com
4. KRAKEN FILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
5. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 10' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE KRAKEN FILTER STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
F. CONTRACTOR TO REMOVE THE TRANSFER OPENING COVER WHEN THE SYSTEM IS BROUGHT ONLINE.

CONTECH HIGH CAPACITY KRAKEN STORMWATER FILTER SYSTEM
N.T.S.

Know what's **below.** **Call** before you dig.

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2. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL "ISSUED FOR CONSTRUCTION" APPEARS IN THE TITLEBLOCK.

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PRELIMINARY AND FINAL SUBDIVISION & SITE PLANS
BLOCK 79, LOTS 3-7 & 9-21
ATLANTIC CITY, ATLANTIC COUNTY, NEW JERSEY

UTILITY DETAILS

KHovnanian® Homes
110 FIELDCREST AVENUE, 5TH FLOOR
EDISON, NEW JERSEY 08837

DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
11/7/2024	1	INITIAL SUBMISSION	LAT	JTS

PROJECT NO.	SCALE	SHEET	DRAWING NO.
KHO 003.02	1" = 20'	10 OF 12	C1102