

1. A FLEXIBLE PIPE TO MANHOLE CONNECTOR SHALL BE EMPLOYED IN THE CONNECTION OF ALL PIPE TO MANHOLE JUNCTIONS.

2. THE CONNECTOR SHALL BE KOR-N-SEAL AS MANUFACTURED BY NPC SYSTEMS, INC., OF MILFORD, NH OR EQUAL.

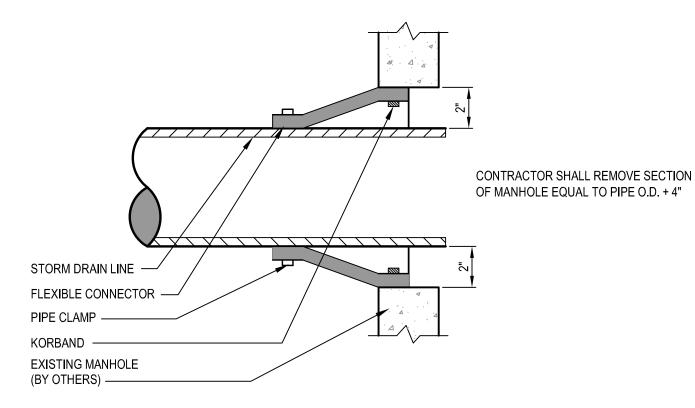
3. THE CONNECTOR SHALL BE THE SOLE ELEMENT RELIED ON TO ASSURE A FLEXIBLE WATERTIGHT SEAL OF THE PIPE TO MANHOLE. NO ADHESIVES OR LUBRICANTS SHALL BE EMPLOYED IN THE INSTALLATION OF THE CONNECTOR TO THE MANHOLE. THE RUBBER FOR THE CONNECTOR SHALL COMPLY TO ASTM C443 AND ASTM C923 AND CONSIST OF EPDM AND ELASTOMERS KNOWN TO BE RESISTANT TO OZONE, WEATHER ELEMENTS, CHEMICALS, INCLUDING ACIDS, ALKALIS, ANIMAL AND VEGETABLE FATS, OILS AND PETROLEUM PRODUCTS FROM SPILLS.

4. ALL STAINLESS STEEL ELEMENTS OF THE CONNECTOR SHALL BE TOTALLY NON-MAGNETIC SERIES 304 STAINLESS, EXCLUDING THE WORM SCREW USED FOR TIGHTENING THE STEEL BAND AROUND THE PIPE WHICH SHALL BE SERIES 305 STAINLESS. THE WORM SCREW USED FOR TIGHTENING THE STEEL BAND SHALL BE TORQUED BY A BREAK-AWAY TORQUE WRENCH AVAILABLE FROM THE PRECAST MANHOLE SUPPLIER, AND SET AT 60/70 in/lbs.

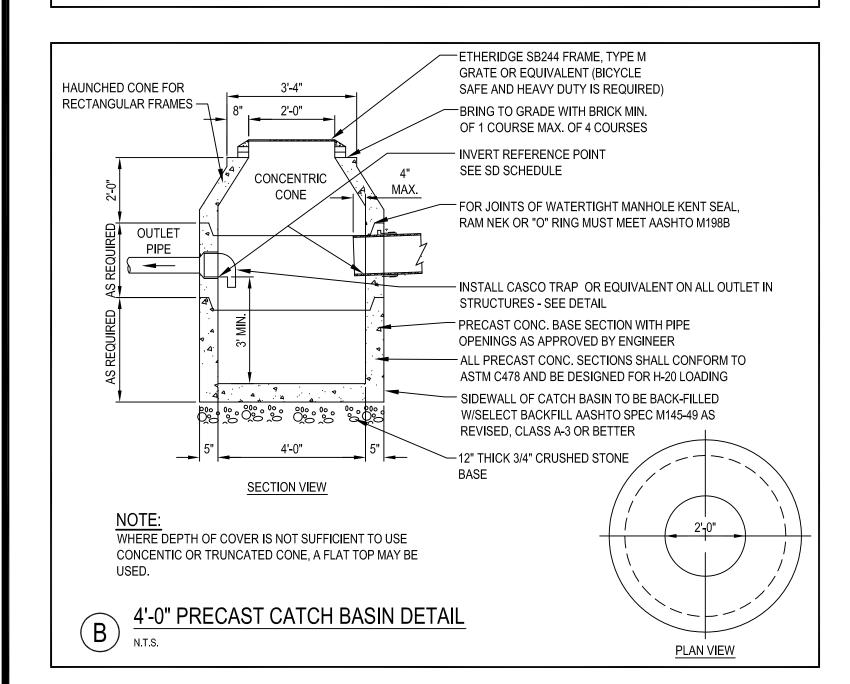
5. THE CONNECTOR SHALL BE INSTALLED IN THE MANHOLE WALL BY ACTIVATING THE EXPANDING MECHANISM IN STRICT ACCORDANCE WITH THE RECOMMENDATION OF THE CONNECTOR MANUFACTURER.

6. THE CONNECTOR SHALL BE OF A SIZE SPECIFICALLY DESIGNED FOR THE PIPE MATERIAL AND SIZE BEING UTILIZED ON THE PROJECT.

7. ALL CONNECTORS WHICH ARE CAPPED AWAITING PIPE INSTALLATION AT A LATER DATE MUST BE RESTRAINED.



CORE AND SEAL CONNECTION TO **EXISTING STORM DRAIN OR SANITARY MANHOLE**





NOTES:

1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY BEST MANAGEMENT PRODUCTS, INC. TOLL FREE: (800) 504-8008 OR (888) 354-7585 WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL.

2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.

3. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL)

4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE IN ACCORDANCE WITH THE FOLLOWING SNOUT SIZE

STRUCTURE OUTLET HOLE SIZE 11.9" O.D. OR LESS 12 F or R 12.0"-17.9" O.D. 18 F or R 18.0"-23.9" O.D. 24 F or R 30 F or R 24.0"-29.9" O.D. 30.0"-47.9" O.D. 48.0"-95.9" O.D.

5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.

6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE

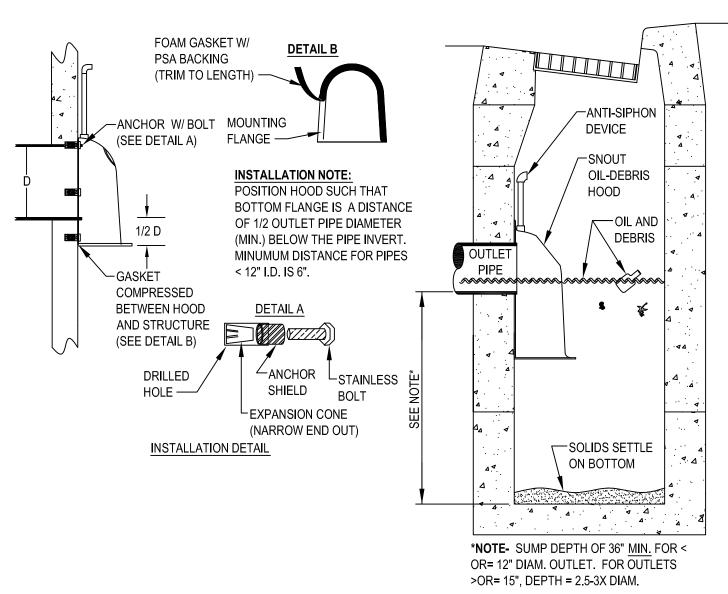
CONFIGURATION.

8. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8' STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET

9. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT, WHICH INCLUDES:

A. INSTALLATION INSTRUCTIONS

C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING

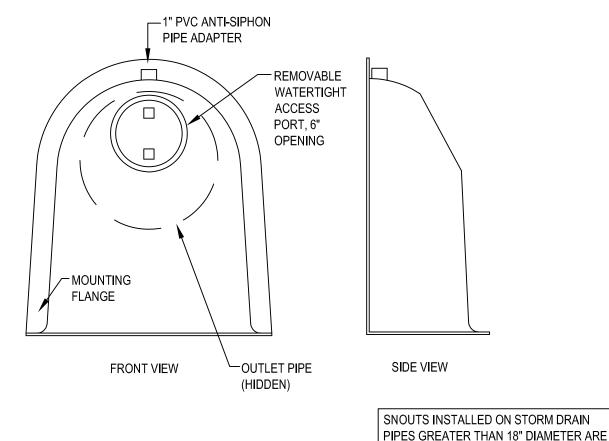


TYPICAL INSTALLATION

REQUIRED TO BE INSTALLED PRIOR TO INSTALLATION OF CATCH BASIN FLAT TOP. INSTALLATION OF SNOUT IS

INCIDENTAL TO CATCH BASIN

STRUCTURE



CONFIGURATION DETAIL

SNOUT OIL-WATER-DEBRIS SEPARATOR DETAIL

WINTE OF MA STEPHEN B SONAL F P.E. STEPHEN BUSHEY



3,000 PSI CONCRETE BASE —

PIPE BOLLARD DETAIL

 \bigcirc

16" X 24" X 1/4" OR

GALV. STEEL PLATE (BY CMP) —

5'-8"

7'-0" OR 9'-0"

- 4" X 4" X 1/2" ANGLE CLIPS

(TYP. 2 WALLS)

6'-0" OR 8'-0" SQUARE

1. CONCRETE: 4,000 PSI AFTER 28 DAYS.

PROJECT ELECTRICAL DESIGNER.

1'-0" OR 1'-10"

" CHAMFER

0'-8" OR

1'-0"

2. REINFORCING: PAD-#4'S @ 12" O.C. E.W.E.F. BASE-1 MAT OF #4'S @ 12"

MANUFACTURED BY SUPERIOR CONCRETE (ITEM) NO. 6819) OR EQUAL

4. ALL TRANSFORMER INSTALLATION DETAILS AND REQUIREMENTS SHALL

INSTALLATIONS, LATEST EDITION. ORDERING AND DELIVERY OF THE

STANDARD REQUIREMENTS FOR ELECTRIC SERVICE AND METER

TRANSFORMER SHALL NOT OCCUR UNTIL AUTHORIZED BY THE

- FINISH GRADE

- GRANULAR

BASE

BE IN ACCORDANCE WITH THE CENTRAL MAINE POWER HANDBOOK OF

3. AS PER CENTRAL MAINE POWER COMPANY SPECIFICATIONS, AS

24" X 24" X 1/4"

1'-8"

0'-8" OR

1'-0"

7' x 7' TRANSFORMER PAD

EXTEND CONCRETE NOSING ABOVE STEEL

PIPE - SMOOTH WITH TROWEL & PAINT

6" SCHEDULE 40 EXTRA STRONG CARBON

PRIME, PAINT, AND APPLY 2 COATS OF

STEEL PIPE FILL WITH CONCRETE

SAFETY YELLOW EPOXY ENAMEL -

CONCRETE FILLET-

PAVEMENT ——

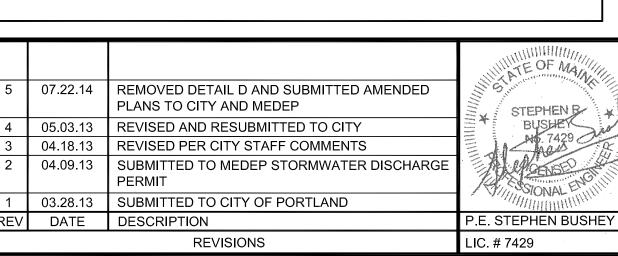
3/4" #LCB-1 THREADED

INSERT (TYP. 4 WALLS) -

CJ DEVELOPERS, INC. 35 PRIMROSE LANE, FREEPORT, MAINE 04032 AND PORTLAND PROPERTY HOLDINGS, LLC 2 MAIN STREET, SUITE 200, TOPSHAM, MAINE 04086



DRAWN: CMW DATE: OCTOBER 2013 DESIGNED: SRB SCALE: N.T.S. CHECKED: SRB JOB NO. 3118 FILE NAME: 3118-DET C-8.2 SHEET



MISCELLANEOUS DETAILS