1. REFER TO THE MAINE DEP TECHNICAL DESIGN MANUAL SECTION 7.3 FOR ADDITIONAL DESIGN DETAILS. 2. SAND LAYER COMPACT IN 6" LIFTS TO 92% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557 SC-740 CHAMBER CHAMBERS SHALL MEET ASTM F 2418-09 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL REFER TO CONCRETE -STORMWATER COLLECTION CHAMBERS". DRIVE DETAIL 3/4" CLEAN, CRUSHED, ANGULAR STONE. DEPTH VARIES WITH WRAP ALL SIDES AND ENDS OF THE -SUBSURFACE DETENTION BETWEEN THE STONE DRIVEWAY SLOPE AND COVER AND LINER WITH MIRAFI 180N OR EQUIVALENT SCHEDULE ELEVATION ITEM A FINISHED GRADE PER C-30 B TOP OF CRUSHED STONE VARIES TOP OF CHAMBER 33.50' D BOTTOM OF CHAMBER 31.00' SC-740 ENDCAP -E TOP OF SAND 30.50' ME DOT SPEC 703.22 BOTTOM OF SAND 29.00' UNDERDRAIN TYPE C 27.83 G BOTTOM OF SYSTEM ME DOT . SPEC 703.01 4" EXTERIOR PERF. PIPE SCHEDULE 40 -PVC OR SDR 35 SURROUNDED BY A MINIMUM 6" OF 3/4" CRUSHED STONE WRAPPED WITH FILTER FABRIC (TYP.) 6" MIN SEE PLANS AND DETAILS FOR FOUNDATION DRAIN LOCATION AND RETAINING WALL SUBSURFACE DETENTION POND WRAPPED ALL SIDES, UNDERDRAIN OUTSIDE OF IMPERMEABLE LINER BOTTOM, AND ENDS IN LINEAR LOW DENSITY POLYETHLENE LINER OR PVC, MIN. 30 MIL. THICKNESS. INSTALL MIRAFI 180N ON BOTH SIDES OF LINER - 4" PERFORATED PIPE SCHEDULE 40 PVC OR SDR 35 (TYP. OF 2)

UNDERDRAINED SUB-SURFACE SAND FILTER TYPICAL CROSS SECTION

NOT TO SCALE

ETHERIDGE FOUNDRY #E245S FRAME AND GRATE

ADJUST TO GRADE WITH BRICK, AS NECESSARY

PORTLAND CEMENT MORTAR (TYPE 2 CEMENT)

OUTLET CONTROL STRUCTURE

NOT TO SCALE

10" HIGH OUTFLOW — FROM CHAMBERS

4" UNDERDRAIN FROM -CHAMBER SYSTEM

INV. IN 28.10'

PLAN VIEW

INV. IN 32.35'

OR APPROVED EQUAL.

WATERTIGHT JOINT O

RING OR KENT SEAL

1/2" KEYWAY FOR

BULKHEAD CONSTRUCTION

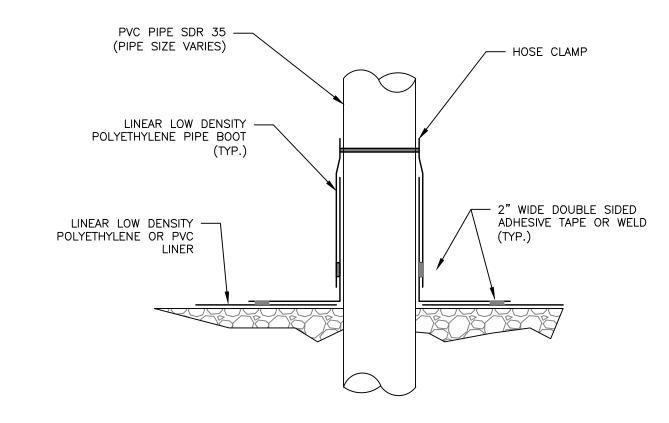
6' BARREL SECTION

A WATERTIGHT SEAL

12" THICK 3/4" CRUSHED STONE BASE

COMPACTED SUBGRADE

SIDE PROFILE



TYPICAL PIPE PENETRATION DETAIL NOT TO SCALE

INV. OUT 27.65'

- INSTALL WATERTIGHT

STEPS (TYP.)

- BULKHEAD

INSTALL 12" O.C.

MANHOLE ACCESS (TYP.)

MANHOLE BOOT (TYP.)

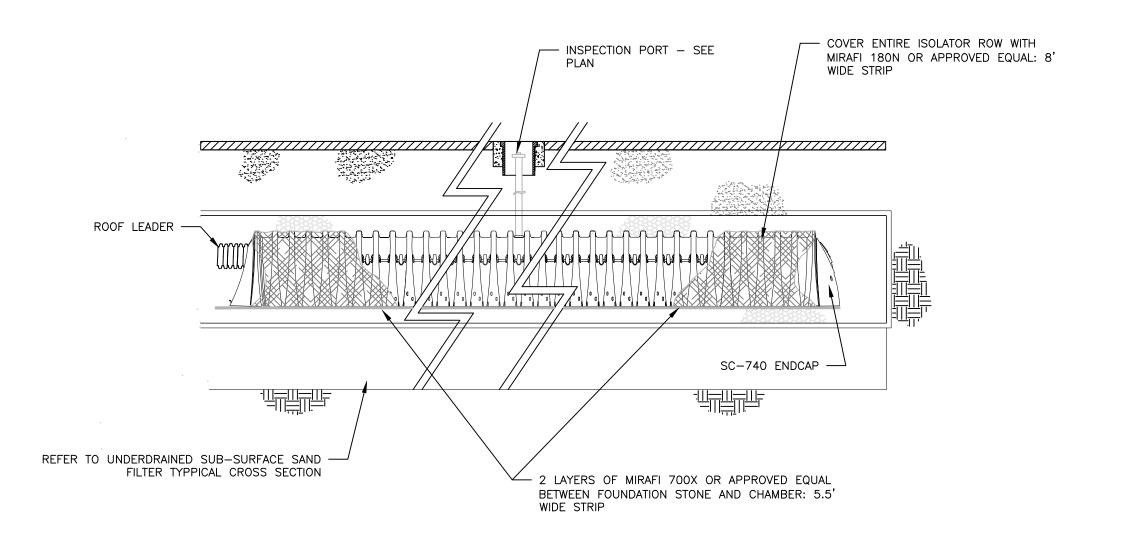
MANUFACTURER'S NOTES:

- 1. ALL DESIGN SPECIFICATIONS FOR STORMTECH MC-3500 CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN
- 2. THE INSTALLATION OF STORMTECH MC-3500 CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
- 3. THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL 1-888-892-2694 OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF THE LATEST STORMTECH
- 4. CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND LOAD FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

ENGINEER'S NOTES:

INSTALLATION INSTRUCTIONS.

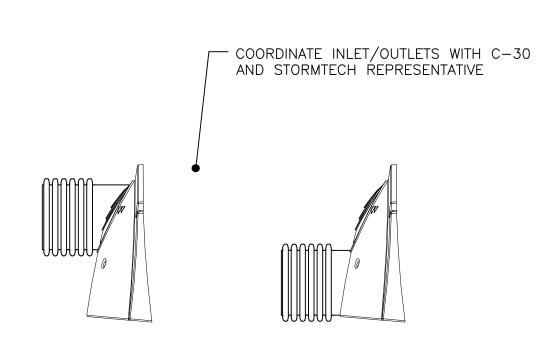
- 1. THE LAYOUT AND DIMENSION OF THE SUBSURFACE DETENTION MAY BE MODIFIED WITH AN ENGINEER APPROVED EQUIVALENT
- 2. THE SUBSURFACE DETENTION SHALL BE INSPECTED BY THE DESIGN ENGINEER AT THE FOLLOWING INTERVALS:
- ONE SITE VISIT DURING THE INSTALLATION OF THE IMPERVIOUS LINER
- DURING THE CONSTRUCTION OF THE SAND FILTER LAYER
 DURING THE INSTALLATION OF THE STORMTECH ISOLATOR ROW
- 3. THE FIRST YEAR OF MAINTENANCE SHALL BE PERFORMED BY THE MANUFACTURER TO ENSURE THAT THE SYSTEM IS OPERATING ACCORDING TO THE ESTABLISHED SPECIFICATIONS.



<u>ISOLATOR ROW - PROFILE VIEW</u> NOT TO SCALE

STORMTECH-CONNECTION NOT TO SCALE

PERMIT LEVEL NOT ISSUED FOR CONSTRUCTION



SUBSURFACE HAMMOND 1112_CIV DESIGNED BY: DRAWN BY: CHECKED BY:

DRAWING NO.

FINAL APP.

DETAI

SAND

Οž

DESIGN NOTES:

SPECIFICATIONS.

4. REINFORCE TO 0.12 IN SQ./LF.

6. POLYPROPYLENE STEPS 12" O.C.

5. JOINTS SEALED WITH BUTYL RUBBER.

SEE SHEET C-30 FOR GRATE OR

COVER. BOTH RIMS AT 35.33'

BOT. OF FLATTOP -

TOP OF BULKHEAD

5.7" ORIFICE INV. 32.10'

1.6" ORIFICE SAWCUT -FROM 4" PIPE CAP INV. ELEV. 27.75'

ELEV. 32.90'

ELEV. 33.30'

1. ALL CONCRETE TO HAVE A MIN. OF 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. . DESIGN LOAD FOR H-20 WHEEL LOAD. 3. CATCH BASIN TO CONFORM TO ASTM-C478

WHICH PROVIDES EQUAL DETENTION STORAGE AND WATER QUALITY TREATMENT.

AFTER PRELIMINARY CONSTRUCTION OF THE SUBSURFACE DETENTION GRADES

ONE SITE VISIT AFTER THE UNDERDRAINS ARE INSTALLED BUT BEFORE THEY ARE BACKFILLED

BEFORE BACKFILLING THE STORMTECH UNITS

4. REFERENCE THE MANUFACTURER'S GUIDE FOR THE OPERATION AND MAINTENANCE PLAN.