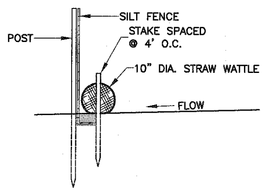
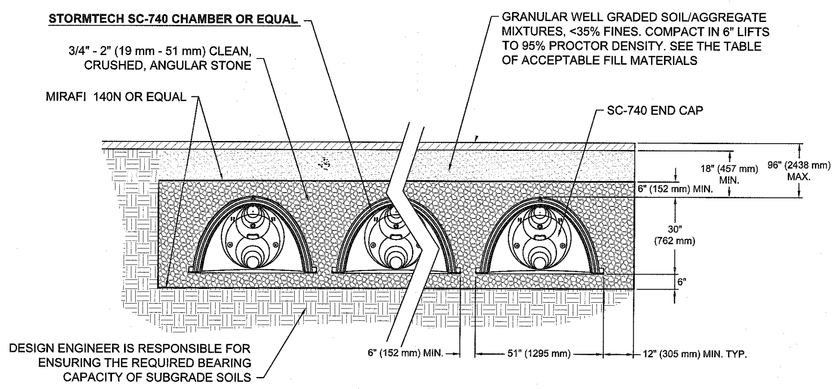


STRAW WATTLES & SILT FENCE SEDIMENTATION CONTROL

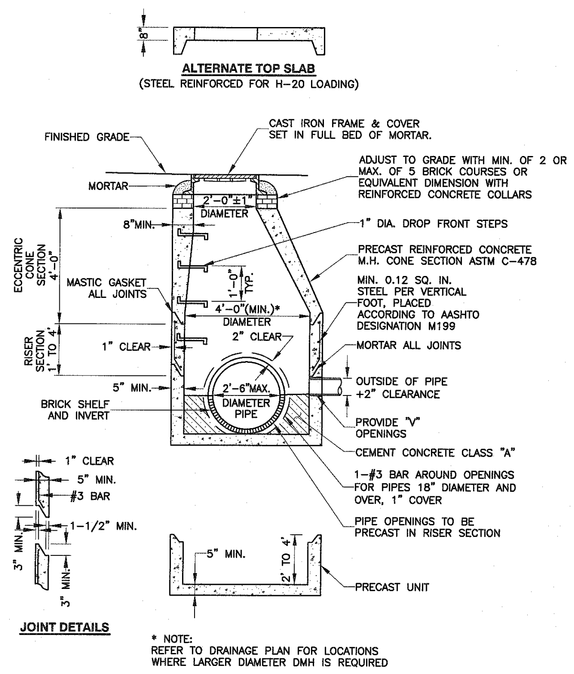
(NOT TO SCALE)

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.



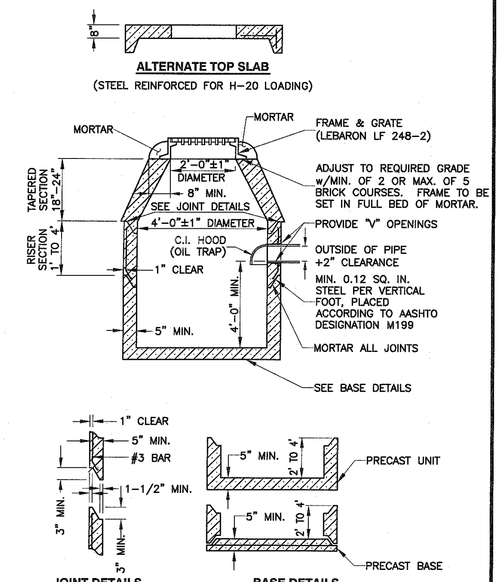
INFILTRATION SYSTEM

(NOT TO SCALE)



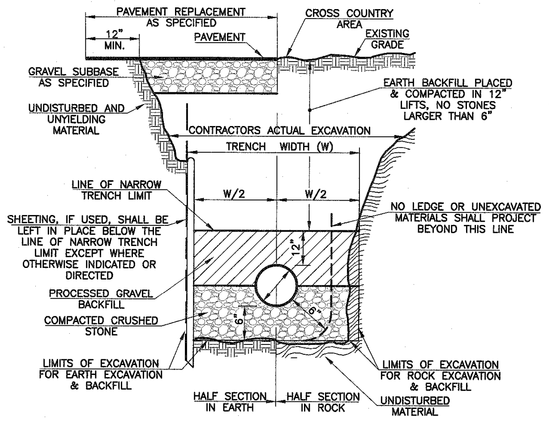
DRAIN MANHOLE

(NOT TO SCALE)



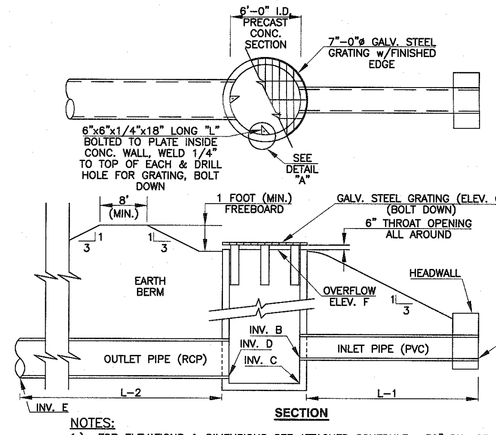
CATCH BASIN

(NOT TO SCALE)



TYPICAL TRENCH DETAIL FOR SEWER

(NOT TO SCALE)

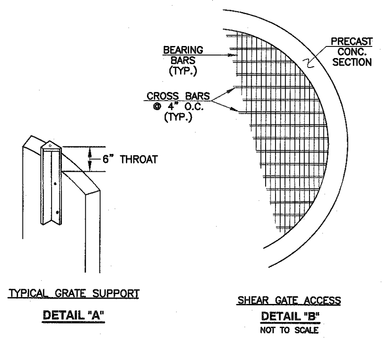


SECTION

NOTES:

1.) FOR ELEVATIONS & DIMENSIONS SEE ATTACHED SCHEDULE. 30" DIA. OR LESS USE FLARED END SECTION ON PIPE.

2.) CONTRACTOR SHALL CONFIRM INVERT GRADES IN FILED PRIOR TO STRUCTURE INSTALLATION.



SPECIFICATIONS:

DRAINAGE CONTROL STRUCTURE GRATING

1.) GRATING SHALL BE STEEL WITH 1-1/4" x 3/16" D BEARING BARS, SPACED AT 1-3/16" CENTERS AND 1/2" x 3/16" CROSS BARS SPACED AT 4" CENTERS. GRATING PERIMETER SHALL BE BANDED WITH NO SHARP PROTRUDING EDGES.

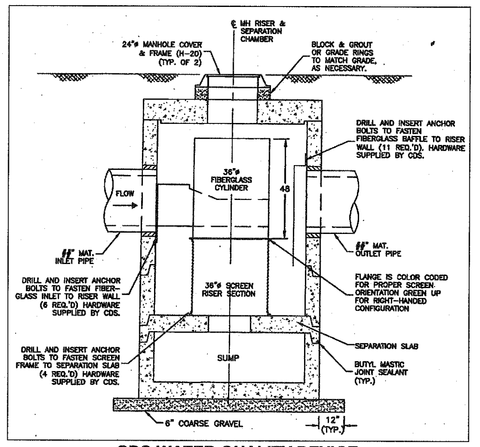
2. GRATING SUPPORT : PROVIDE 4 SUPPORTS 6" x 1/4" x 18" LG. EACH BOLTED INTO THE CHAMBER WALLS WITH 1/4" DRILLED PLATE WELDED TO SUPPORT FOR GRATING ANCHORAGE.

3.) GRATE ANCHORING : GRATING WILL BE SECURED TO SUPPORTS BY PROVIDING 1-3/8" x 4-3/16" STEEL WASHER PLATE DRILLED FOR 3/8" x 3" LONG GALVANIZED STEEL BOLT.

4.) COMPLETE GRATING AND ALL METALS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

DRAINAGE CONTROL STRUCTURE

(NOT TO SCALE)

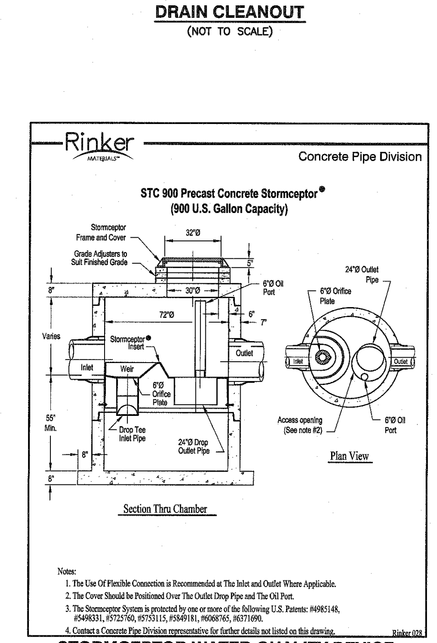


NOTE:

CRUSHED STONE WILL ONLY BE REQUIRED IF UNSUITABLE MATERIALS ARE ENCOUNTERED OR IF PIPE IS BEING LAID WITHIN GROUND WATER TABLE. OTHERWISE, PIPE MAY BE PLACED ON BOTTOM OF TRENCH AND EARTH BACKFILLED.

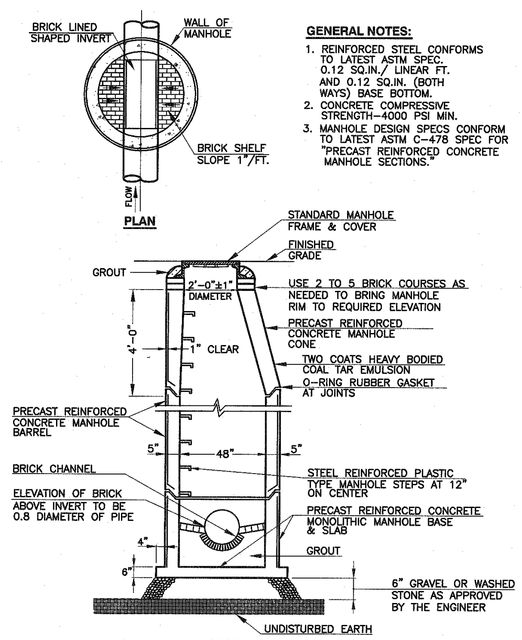
EXCAVATION & BACKFILL DETAIL FOR RCP DRAIN

(NOT TO SCALE)



DRAIN CLEANOUT

(NOT TO SCALE)

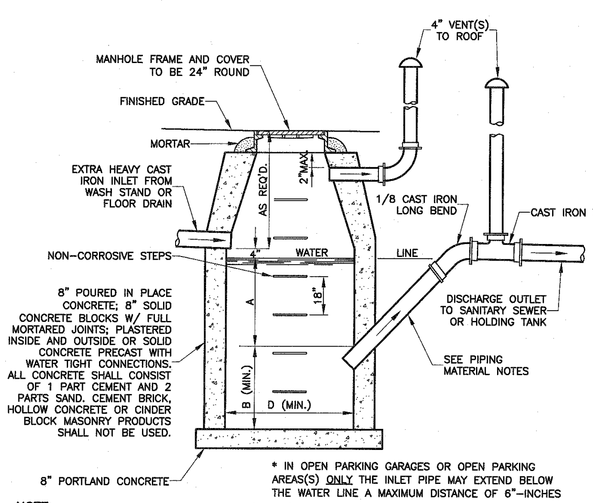


GENERAL NOTES:

1. REINFORCED STEEL CONFORMS TO LATEST ASTM SPEC. 0.12 SQ.IN./ LINEAR FT. AND 0.12 SQ.IN. (BOTH WAYS) BASE BOTTOM.
2. CONCRETE COMPRESSIVE STRENGTH-4000 PSI MIN.
3. MANHOLE DESIGN SPECS CONFORM TO LATEST ASTM C-478 SPEC FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."

PRECAST CONCRETE SEWER MANHOLE

(NOT TO SCALE)



INLET	D	A	B
4"	3'-6"	3'-0"	2'-6"
5"	3'-6"	5'-0"	4'-0"
	3'-6"X3'-6"	4'-0"	3'-0"
	4'-0"	3'-6"	3'-0"
	4'-0"X4'-0"	3'-0"	2'-6"
	4'-6"	3'-6"	2'-6"
6"	4'-0"	5'-0"	4'-6"
	4'-0"X4'-0"	4'-0"	3'-6"
	4'-6"	4'-0"	3'-6"
	4'-6"X4'-6"	3'-6"	3'-0"
	5'-0"	3'-6"	3'-0"
	5'-0"X5'-0"	3'-0"	2'-6"
8"	5'-0"	6'-0"	5'-0"
	5'-0"X5'-6"	4'-0"	4'-0"
	6'-0"	4'-0"	3'-6"
	6'-0"X6'-0"	3'-0"	2'-6"
	6'-6"	3'-6"	3'-0"
	6'-6"X6'-6"	3'-0"	2'-6"

NOTE:

IN CITIES AND TOWNS WHERE THE SEWAGE DISPOSAL IS DISCHARGING INTO A MWRA SEWAGE SYSTEM, A NOTICE SHALL BE FILED WITH THE MWRA WHEN THE PLUMBING APPLICATION IS FILED WITH THE INSPECTOR, AND THE SEPARATOR INSTALLATION SHALL BE INSPECTED BY THE MWRA.

GASOLINE, OIL & SAND SEPARATOR

(NOT TO SCALE)

PIPING MATERIAL NOTES:

1. NO-HUB CAST IRON WITH PRODUCT APPROVED STAINLESS STEEL CLAMPS.
2. SERVICE WEIGHT CAST IRON WITH PRODUCT APPROVED RESILIENT GASKETS OR LEAD AND OAKUM JOINTS.
3. EXTRA HEAVY CAST IRON WITH PRODUCT APPROVED RESILIENT GASKETS OR LEAD AND OAKUM JOINTS.

GENERAL CONSTRUCTION NOTES:

1. THE SEPARATOR IS TO BE LOCATED OUTSIDE OF A BUILDING WHERE POSSIBLE AND THE COVER IS TO INCORPORATE A CENTER-HOLE.
2. A SEALED TIGHT COVER IS TO BE USED IF THE SEPARATOR IS LOCATED INSIDE OF A BUILDING. THE COVER SHALL BE NO LESS THAN A 24" DIAMETER.
3. THE SEPARATOR SHALL BE LOCATED AND CONSTRUCTED TO PREVENT SURFACE OR SUB-SURFACE WATER FROM ENTERING.
4. THE INLET PIPE SHALL BE NO LESS THAN FOUR INCHES ABOVE THE WATER LINE LEVEL.
5. WHEN THE SEPARATOR IS SUBJECT TO FREEZING IT SHALL BE SET A MINIMUM OF THREE FEET BELOW GRADE.
6. THE SEPARATOR SHALL BE FILLED WITH WATER AND LEAK TESTED BEFORE BEING INTRODUCED INTO SERVICE.
7. THE NON-CORROSIVE STEPS SHALL BE SPACED AT 18"-INCHES APART.
8. THE CHAMBER VENT AND OUTLET VENT SHALL RETURN TO THE INSIDE OF THE BUILDING AND EXTEND THROUGH THE ROOF.

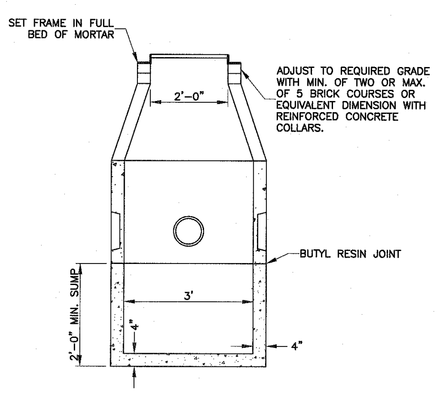
CDS WATER QUALITY DEVICE

(NOT TO SCALE)

STORMCEPTOR WATER QUALITY DEVICE

(NOT TO SCALE)

WATER QUALITY DEVICE CDS, STORMCEPTOR OR EQUAL

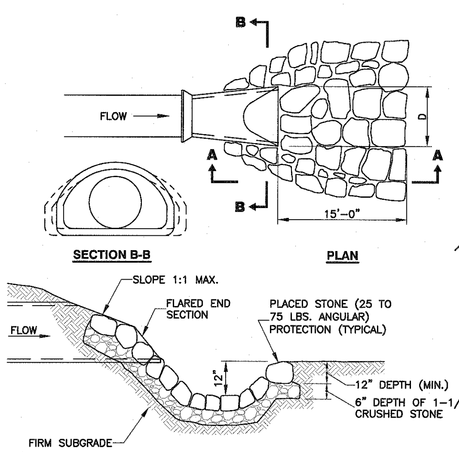


NOTES:

1. CONCRETE COMPRESSIVE STRENGTH-4000 PSI MIN.
2. BUTYL RESIN SECTION JOINT CONFORMS TO LATEST ASTM C443 SPEC.

YARD DRAIN

(NOT TO SCALE)



FLARED END SECTION (FES)

(NOT TO SCALE)

REVISIONS		
ISSUE	DATE	DESCRIPTION

JAMES M. WHITE CIVIL No. 32146 REGISTERED PROFESSIONAL ENGINEER

DATE: JUNE 25, 2014

SCALE: AS NOTED

SHEET C-5

THE COMMONS AT WEISS FARM

STONEHAM, MASSACHUSETTS

SITE DETAILS PLAN

hwmoore
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CIVIL ENGINEERING | LAND PLANNING
112 Shawmut Avenue, Boston, MA 02118-2227
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