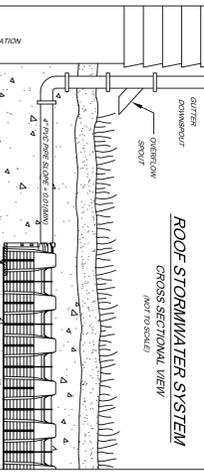


STORMTECH LLC CONCEPTUAL PLAN DISCLAIMER

THIS STORMTECH CHAMBER SYSTEM LAYOUT WAS PROVIDED TO DEMONSTRATE A GENERAL LAYOUT THAT WILL HANDLE THE DESIGN YOU HAVE DESIGNED. THE SIZING, FIT AND APPLICABILITY OF THE CHAMBER SYSTEM IS THE RESPONSIBILITY OF THE DESIGN ENGINEER. THE STORMTECH SYSTEM DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. MINIMUM REQUIREMENTS: STORMTECH LLC DOES NOT APPROVE PLANS, SIZING OR SYSTEM DESIGN. THE DESIGNING ENGINEER IS RESPONSIBLE FOR ALL DESIGN DECISIONS.



ZONING REQUIREMENTS:

ZONING IS RA - RESIDENCE A	SETBACK REQUIREMENTS:
MINIMUM FRONT YARD	20.00'
MINIMUM TOTAL AREA	8,000 sq. ft.
MINIMUM REAR YARD	30.00'
MINIMUM REAR & SIDE YARD	10.0' & 12.0'
MAXIMUM % LOT COVERAGE	30% (Required)
% LOT COVERAGE PROVIDED	20 %

GENERAL NOTES:

- LOCUS LOT IS SHOWN ON PLAN OF LAND DRAWN FOR THERESA GOVETTE 2006 REVOCABLE TRUST, PREPARED BY SPICE ENGINEERING, DATED 7/30/2008 AND FILED AT THE BRISTOL COUNTY REGISTRY OF DEEDS IN BOOK 104, PAGE 78. REFER TO DEED BOOK 104, PAGE 142.
- SITE IS SHOWN ON NEW BEDFORD ASSESSORS MAP 130F.
- EXISTING UTILITIES SHOWN HAVE BEEN TAKEN FROM RECORD DRAWINGS AND FROM SURFACE EVIDENCE OBTAINED BY ON-THE-GROUND SURVEY. NO REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF THE UTILITIES INFORMATION GIVEN TO THIS OFFICE BY FRANKLIN CONTRACTING AND NOT FIELD VERIFIED BY KRFE AS THE PIPES WAS INSTALLED AND BACKFILLED AT THE TIME OF SURVEY.
- ALL CONSTRUCTION MATERIALS AND INSTALLATION METHODS TO CONFORM TO THE CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC WORKS CONSTRUCTION STANDARDS, AS MOST RECENTLY AMENDED.
- CONTRACTOR SHALL KEEP RECORDS OF LOCATIONS FOR ALL UNDERGROUND UTILITIES INSTALLED FOR USE IN COMPLETING AN AS-BUILT SITE PLAN.
- CONTRACTOR TO VERIFY AND CHECK BENCHMARK AS SHOWN ON THIS PLAN PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL PERMITS AS MAY BE REQUIRED. CONTRACTOR ALSO REQUIRED TO PAY ALL PERMITS AND FEES ASSOCIATED WITH COMPLETION OF THE WORK.
- ANY LAWN AREA DISTURBED DURING CONSTRUCTION TO BE LOAN AND SERVED AFTER PROPER ACQUIRING AND ALL TRENCHES WITH IN THE EXISTING PAVEMENT TO BE REPAIRED PER DWS STANDARDS.
- LOCUS B1 TO BE SERVED BY MUNICIPAL WATER AND L.P.M. SEWER.
- THE ENVIRONMENTAL (ONE DHD071-93) DETAIL(S) PUMP MAY BE DIRECT WIRED IN THE BUILDINGS MAIN ELECTRICAL PANEL THROUGH APPROPRIATE CONDUIT. THE ENVIRONMENTAL ONE ALARM WITH VISUAL AND AUDIBLE BELLING, IF INSTALLED OUTDOORS, CONDUIT TO THE N.E.C. COOPER BOUND ON VOLTAGE SOURCE (240V OR 120V) AVAILABLE TO THE BUILDING. CONTRACTOR TO VERIFY WITH OWNER AS TO CHOICE OF WIRELESS OR HARDWIRED UNITS PRIOR TO ORDERING. ALL COMPONENTS TO BE PURCHASED FROM FRANK & ASSOCIATES, INC.
- ANCHOR TO BE INSTALLED TO PREVENT FLOATATION. MINIMUM RING OR CONCRETE TO BE SIZED IN ACCORDANCE WITH EGENES STANDARDS, ASSUMING A HIGH WATER TABLE.
- THE PUMP SYSTEM SPECIFIED IS TO BE USED. NO ALTERNATE PUMPS ARE TO BE INSTALLED WITHOUT THE DPW & DESIGN ENGINEERS APPROVAL AS TO THE PUMP CHARACTERISTICS AND SUITABILITY. PUMPS ARE SIZED NORMAL HOUSEHOLD TYPE SEWERAGE ONLY.
- A BACKUP GENERATOR (ADEQUATE FOR SUPPLYING THE SEWAGE PUMP IN CASE OF ELECTRICAL FAILURE) IS STRONGLY RECOMMENDED IN WHICH A TRANSFER SWITCH MAY BE WARRANTED.
- ALL SDR 21 PIPING TO BE INSTALLED 48 INCHES BELOW GRADE (BELOW THE FRONT LINE) AND INSTALLED A MINIMUM OF 18 INCHES BELOW ANY WATER MAIN OR WATER SERVICE CROSSING.
- ALL 4" SCH 40 PVC PIPING FROM THE DWELLINGS ARE TO BE SET WITH A SLOPE OF 0.02 (MIN).
- ALL LATERAL UTILITY ALARMS, CONTROL PANELS, CHECK VALVES, ETC. AND PUMP RELATED ITEMS TO BE PURCHASED FROM FRANK & ASSOCIATES, INC. AND INSTALLED AS TO THESE REQUIREMENTS.
- LOCUS IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONES AS DEMONSTRATED ON THE FIRM MAP WITH COMMENTARY PANEL NO. 558189 (S.D. DATED 07/01/2008).
- REQUEST FOR DETERMINATION NOTES:
 - Site is NOT located within an estimated hazard of one wetland wildlife species.
 - A PRECONSTRUCTION CONFERENCE, if required, is to be held between the Contractor and the Conservation Agent prior to construction.
 - ANY SITUATION FENCING OR HAYBALES are to be installed, as shown on the site plan, prior to any activity and are to remain in place and be maintained until all activities are completed and vegetation established.
 - ANY SUBSTANTIAL SILT ACCUMULATION against the silt fence is to be removed by hand labor. ALL CONSTRUCTION LITTER AND DEBRIS is to be removed from the vicinity of the Silt Fence or haybale line daily.
 - NO REPLENISHING OR VEHICLES is allowed within 100 feet of the resource area.
 - IF A CERTIFICATE OF COMPLIANCE is required at the completion of the project, Notify the Conservation Agent and the Engineering Company for any required inspections, reports, or as-built plans that may be required.

STUBS AT TOP OF END CAP FOR PARTS NUMBERS ENDING WITH 1

PART #	CHAMBER	PIPE SIZE	A	B	C	D
SC310	SC 310	120 mm (4.72 in)	24 mm (0.94 in)	13 mm (0.51 in)	14 mm (0.55 in)	N/A
SC310	SC 310	120 mm (4.72 in)	24 mm (0.94 in)	13 mm (0.51 in)	14 mm (0.55 in)	133 mm (5.24 in)
SC310	SC 310	120 mm (4.72 in)	24 mm (0.94 in)	13 mm (0.51 in)	14 mm (0.55 in)	133 mm (5.24 in)

STUBS AT BOTTOM OF END CAP FOR PARTS NUMBERS ENDING WITH 1

PART #	CHAMBER	PIPE SIZE	A	B	C	D
SC310	SC 310	120 mm (4.72 in)	24 mm (0.94 in)	13 mm (0.51 in)	14 mm (0.55 in)	N/A
SC310	SC 310	120 mm (4.72 in)	24 mm (0.94 in)	13 mm (0.51 in)	14 mm (0.55 in)	133 mm (5.24 in)
SC310	SC 310	120 mm (4.72 in)	24 mm (0.94 in)	13 mm (0.51 in)	14 mm (0.55 in)	133 mm (5.24 in)

NOTE: ALL DIMENSIONS ARE NOMINAL

ALL STUBS EXCEPT FOR THE SC310 SHALL BE PLACED AT THE BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUBS IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

FOR THE SC310 THERE ARE THE 12" STUBS TO BE PLACED AT THE BOTTOM OF END CAP APPROXIMATELY 0.25" BACKFILL MATERIAL SHOULD BE BROADCASTED FROM BELOW THE N-12 STUBS SO THAT THE FITTING SETS LEVEL.

DOWNSPOUT DRAINAGE DESIGN:

ASSUME 1" OF RAINFALL ON THE ENTIRE ROOF AREA

ROOF AREA = 900 Sq Ft

USE THE HIGH CAPACITY STORMTECH CHAMBER SC310 DETAIL AS DETAIL

900 Sq Ft x 1.172 inches per foot = 75 Cu Ft

75 Cu Ft / 14.7 Cu Ft/Chamber = 5.1 Chamber

Therefore, 6 chamber units required

However if contractor finds location and piping to be unfeasible an alternative configuration may be used, with a minimum of 1" of rainwater storage per downspout outlet, if separated.

All Gutters and downspouts to be equipped with Leaf Screens.

All piping and fittings used to connect to the downspouts are to be 4" SCH 40.

Gutters, downspouts and recharge system to be inspected and cleaned twice a year (June and December).

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W x H x INSTALLED LENGTH)

CHAMBER STORAGE

MINIMUM INSTALLED STORAGE

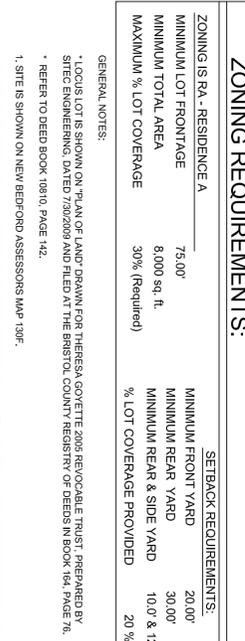
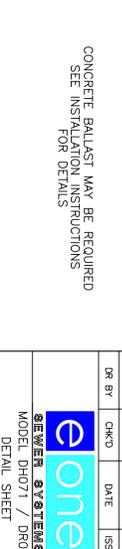
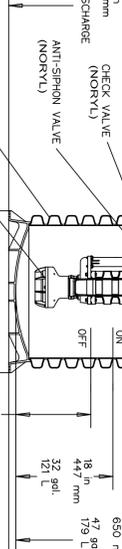
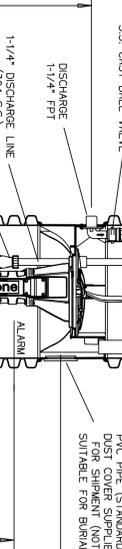
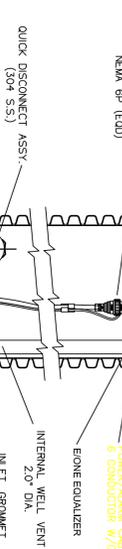
WEIGHT

34.0" x 16.0" x 88.4"

14.7 CUBIC FEET

31.0 CUBIC FEET

35 LBS.



BUILDING PERMIT PLAN

DAVID CARDOSO

MAP 130F, LOT 52

NEW BEDFORD, MASSACHUSETTS 02740

TEL: (508) 992-0020 - FAX: (508) 992-3374

KENNETH R. FERREIRA ENGINEERING

46 FOSTER STREET

NEW BEDFORD, MASSACHUSETTS 02740

TEL: (508) 992-0020 - FAX: (508) 992-3374

KENNETH R. FERREIRA, P.L.S., P.E. DATE

REVISION

DATE: 1/15/2014 DESIGNED BY: KRF

SCALE: 1" = 20' CHECKED BY: KRF

DRAWN BY: KIS JOB NO.: FE 3893

INSTALLATION DETAIL

CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

REMOVE 2" TO 4" OF TOPSOIL TO PROVIDE FOR A STABLE INSTALLATION

LOW PRESSURE SEWER CURB STOP/CLEAN OUT DETAIL

NOT TO SCALE

HAYBALE PLACEMENT DETAIL

(NOT TO SCALE)

HAYBALES ARE TO BE INSTALLED PRIOR TO THE START OF ANY SITE ACTIVITIES AND MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. HAYBALES MAY NEED TO BE REPLACED AS COMPLETE CONSTRUCTION ACTIVITIES.

SILT FENCE INSTALLATION DETAIL

(NOT TO SCALE)

WOODEN POST PROPEX 3/4" x 6" x 6" (OR EQUAL) CONTROL FABRIC (OR EQUAL) STRESS REINFORCEMENT BAND NATIVE SOIL BACKFILL TRENCH 6" MIN. DEPTH

HAYBALE PLACEMENT DETAIL

(NOT TO SCALE)

DOUBLE STAKED HAYBALE LINE

INSTALLATION DETAIL

REMOVE 2" TO 4" OF TOPSOIL TO PROVIDE FOR A STABLE INSTALLATION

LOW PRESSURE SEWER CURB STOP/CLEAN OUT DETAIL

NOT TO SCALE

HAYBALE PLACEMENT DETAIL

(NOT TO SCALE)

DOUBLE STAKED HAYBALE LINE

INSTALLATION DETAIL

REMOVE 2" TO 4" OF TOPSOIL TO PROVIDE FOR A STABLE INSTALLATION