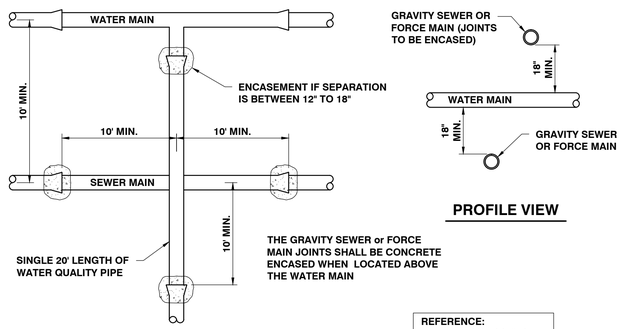


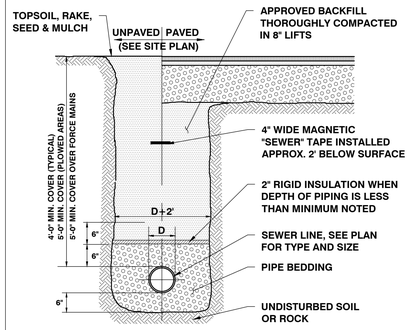
PLAN VIEW

REFERENCE:
VT. WATER SUPPLY RULE
CHAPTER 21 SECTION 8.6

WATER/SEWER CROSSING

N.T.S.

W-007 REVISED 10/07/2014



NOTES:

1. COMPACTION OF BACKFILL AND BEDDING SHALL BE A MINIMUM OF 90% (95% UNDER ROADWAY SURFACES) OF MAXIMUM DRY DENSITY DETERMINED IN THE STANDARD PROCTOR TEST (ASTM D698).
2. BEDDING MATERIAL SHALL NOT BE PLACED ON FROZEN SUBGRADE.
3. APPROVED BACKFILL SHALL NOT CONTAIN ANY STONES MORE THAN 12" IN LARGEST DIMENSION (6" IN ROADWAYS, 1 1/2"" MAXIMUM DIAMETER WITHIN 24" OF THE OUTSIDE OF THE PIPE), OR CONTAIN ANY FROZEN, WET, OR ORGANIC MATERIAL.
4. TRENCHES SHALL BE COMPLETELY DEWATERED PRIOR TO PLACING OF PIPE BEDDING MATERIAL AND KEPT DEWATERED DURING INSTALLATION OF PIPE AND BACKFILL.
5. IN TRENCHES WITH UNSTABLE MATERIALS, TRENCH BOTTOM SHALL FIRST BE STABILIZED BY PLACEMENT OF FILTER FABRIC THEN CRUSHED STONE (3/4" MAXIMUM).
6. THE SIDES OF TRENCHES 4' OR MORE IN DEPTH ENTERED BY PERSONNEL SHALL BE SHEETED OR SLOPED TO THE ANGLE OF REPOSE AS DEFINED BY O.S.H.A. STANDARDS.
7. BEDDING MATERIAL FOR WASTEWATER LINES SHALL CONSIST OF CRUSHED STONE OR GRAVEL WITH A MAXIMUM SIZE OF ¾". SUBMIT A SAMPLE TO THE ENGINEER FOR APPROVAL.
8. ALL JOINTS TO BE INSPECTED BY OWNER/ENGINEER/TOWN PRIOR TO BACKFILL.

TYPICAL SEWER TRENCH DETAIL

N.T.S.

SWR-001 REVISED 12/29/2014

	Horizontal Distance (Feet)		
	Leach field	Septic Tank	Sewer
Drilled Well Serving 1 Home - Up Slope of Disposal Field	100 (Min.)[1]	50	50
Drilled Well Serving 1 Home - Down Slope of Disposal Field	200 (Min.)[1]	50	50
Shallow Well or Spring, Up Slope of Disposal Field	150 (Min.)[1]	75	75
Shallow Well or Spring, Down Slope of Disposal Field	500 (Min.)[1]	75	75
Lakes, Ponds and Impoundment	50	25	25
Rivers, Streams	50	25	10
Drainage Swales, Roadway Ditches	25	-	-
Municipal Water Main	50	50	10
Service Water Lines	25	25	10
Roadways, Driveways, Buildings	10	5	5[4]
Top of embankment or slope > 30%	25	10	-
Property Line	10 (25 Downslope)[2]	10	10
Trees	10	10	10
Replacement Area	10	-	-
Foundation, Footing Drains	35 (75 Downslope)[3]	10	-

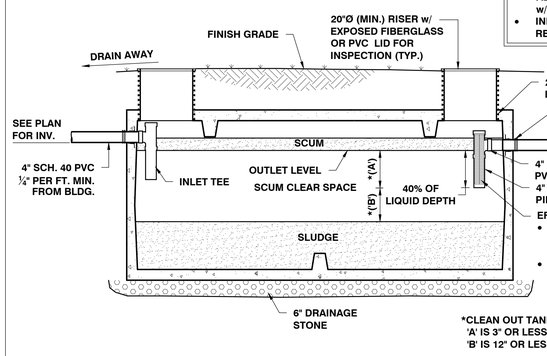
1. Isolation distances to well locations may vary due to site conditions - contact Engineer for verification with the Vermont Water Supply Rule Regulations.
2. For mound disposal systems, the limit of mound fill must be 25 feet from any downhill property line and 10 feet from side or uphill property lines.
3. If a curtain or foundation drain is downslope of the leach field, the leach field cannot be closer than 75 feet to the drain. If the drain is upslope of the leach field, it shall be 35' if possible and 20' minimum.
4. Sewers under roads, driveways or parking lots may require protective conduits or sleeves.

MINIMUM ISOLATION DISTANCES

(CONTACT ENGINEER FOR ANY CLARIFICATIONS OR CONFLICTS)

SWR-100 REVISED 08/01/2014

GENERAL NOTES:
- ALL TANKS TO BE WATER-PROOF w/ BOOTED CONNECTIONS
- INLET & OUTLET RISERS REQUIRED



1,000 GALLON SEPTIC TANK

N.T.S.

SWR-015 REVISED 10/17/2014

Septic Tank Notes

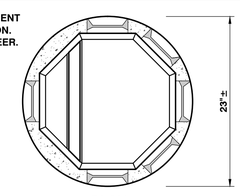
1. Septic tank shall be a precast concrete tank, unless otherwise approved.
2. Maintenance
   - At least once a year, the depth of sludge and scum in the septic tank should be measured. The tank should be pumped if
   - The sludge is closer than twelve inches to the outlet baffle or;
   - The scum layer is closer than three inches to the outlet baffle.
   - Under no circumstances should anyone enter a septic tank.
3. Recommendations
   - The use of garbage grinders is discouraged as sludge accumulation in the septic tank can be increased by up to 40%. If used, the septic tank will require more frequent pumping.
   - The septic system is designed to handle human waste and toilet paper, plus water from plumbing fixtures such as toilets, baths and sinks. Moderate use of household cleaners, detergents and bleach should not damage your system; however, indiscriminate use may cause problems. Non-degradable paper products and any other non-biodegradable substances should not be put in your wastewater system.
   - Minimize the amount of water used in the household. Excessive water could flush solids from the septic tank to the disposal field which leads to clogging or plugging of the piping. When dishwashers and washers are used, make sure loads are full and stagger their use to reduce peak flows, i.e. stagger loads of laundry over several days instead of one day.
4. Walkways, patios and decks or other permanent structures should not be constructed over the septic tank.
5. There should be no need to use commercial "starter", "bacterial feeds", or "cleaners", etc. Bacteria in a septic tank system occurs naturally.

DESIGN FLOWS

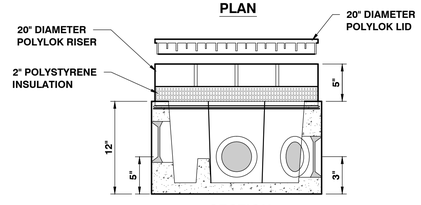
720 DORSET ST

DISPOSAL FIELD DESIGN FLOW	
4 BEDROOM HOUSE	*600 GPD*
SEWER DESIGN FLOW:	
EXISTING 3 BEDROOM HOUSE @ 140 GPD =	*420 GPD*
PROPOSED 1 BEDROOM EXPANSION @ 140 GPD=	*140 GPD*
	560 GPD TOTAL

VERIFY FINAL PIPE ALIGNMENT BASED ON D. BOX LOCATION. COORDINATE WITH ENGINEER.



PLAN



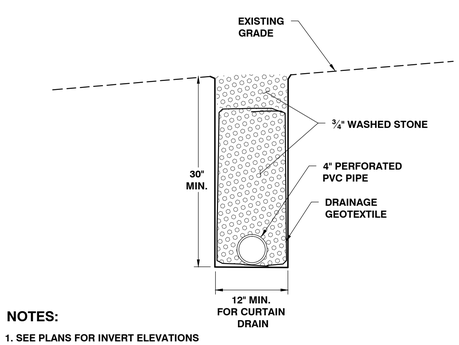
SECTION

CAMP PRECAST 5-OUTLET DISTRIBUTION BOX WITH POLYLOCK FLOW EQUALIZERS (OR APPROVED EQUAL)

DISTRIBUTION BOX

N.T.S.

DET-021 REVISED 12/31/2014



NOTES:

1. SEE PLANS FOR INVERT ELEVATIONS
2. SLOPE ALL PIPE TO DRAIN @ 0.5% MIN.

TYPICAL CURTAIN DRAIN SECTION

N.T.S.

SWR-018 REVISED 09/15/2014

SITE ENGINEER:

CIVIL ENGINEERING ASSOCIATES, INC.
10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403
802-864-2323 FAX: 802-864-2271 web: www.cea-vt.com

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DRAWN: BRR
CHECKED: DSM
APPROVED: DSM

STATE OF VERMONT — DAVID S. MARSHALL — No. 6014 — CIVIL — REGISTERED PROFESSIONAL ENGINEER

OWNER:

ANDREW AND ERIN ROSS

720 DORSET ST
CHARLOTTE
VERMONT 05445

PROJECT:

PROPOSED SEWER CONNECTION

720 DORSET ST
CHARLOTTE, VT

LOCATION MAP

1" = 2000'

DATE	CHECKED	REVISION

DETAILS

DATE: 09/06/2017
SCALE: NONE
PROJ. NO.: 16191.01
DRAWING NUMBER: C2.0