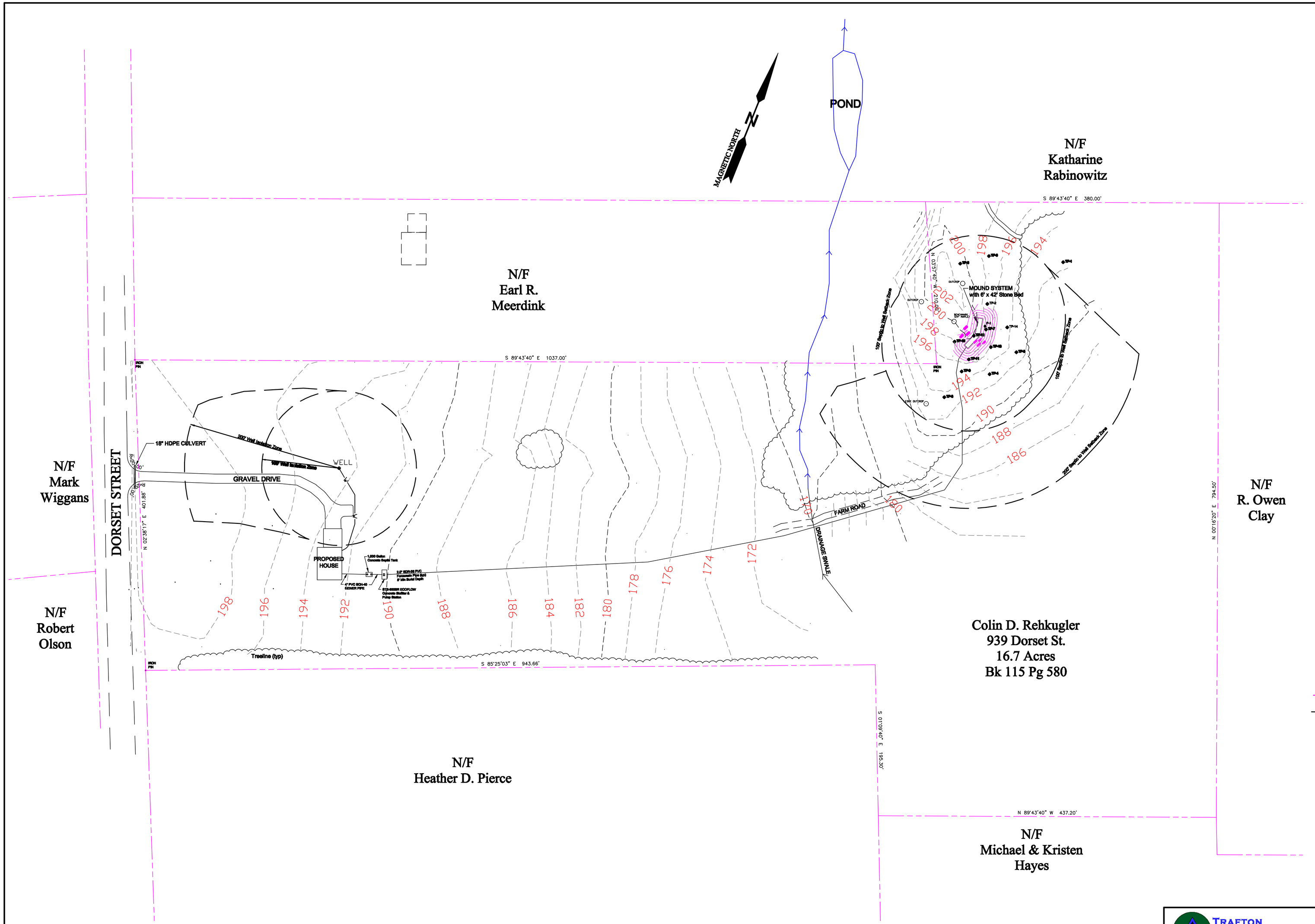
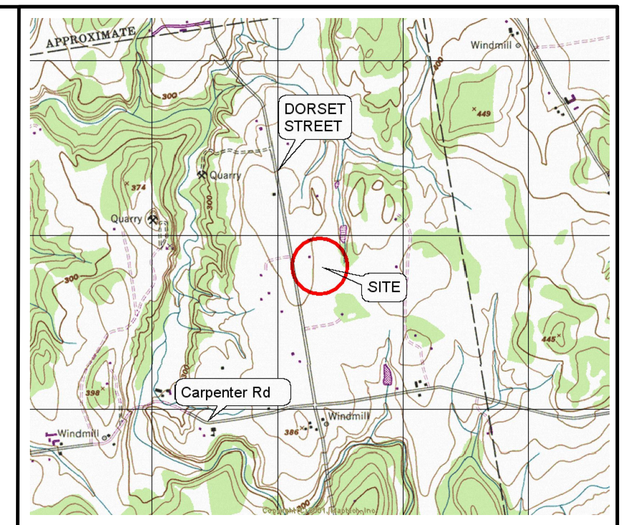




LOCATION MAP
NTS

NOTES

OWNER:	Colin and Abby Rehkugler
	1290 Carpenter Road, Charlotte, VT 05445
Lot Size:	16.7 Acres
Parcel ID:	000 013 939
Deed:	Vol 115, Pgs 580 - 581
Zoning District:	Rural

1. This Plan depicts a wastewater system layout and design and is not for any other purpose. This is not a survey. Boundary survey depicted herein is for planning purposes only, and is taken from a plan provided by the Applicant. Topographic survey information is from a field survey by Willis Design Associates conducted 7/21/11.

2. Project Description: A single family 4- bedroom house is planned for the 16.7 acre lot. An existing on-site, non-shared, drilled bedrock well will be the water supply for the house. Wastewater system will be a performance based design mound with filtrate effluent discharged from an Innovative/Alternative pretreatment system. Pretreatment system to consist of a standard 1,000 gallon concrete septic tank discahrging to an STB-650BR Ecoflo Biofilter with an integral pump chamber in a concrete tank. Designated house site is proposed for planing purposes only, and may be re-located within the required zoning setback on the lot in compliance with the Town building permit. The septic tank, biofilter tank, building sewer and forcemain must be a minimum of 50 feet away from the water well and 25 feet away from the water service line.

LEGEND

- Property Line
- Zoning Setback
- 366 Existing Contour
- 366 Proposed Contour
- TP-101 SoilTest Pit

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

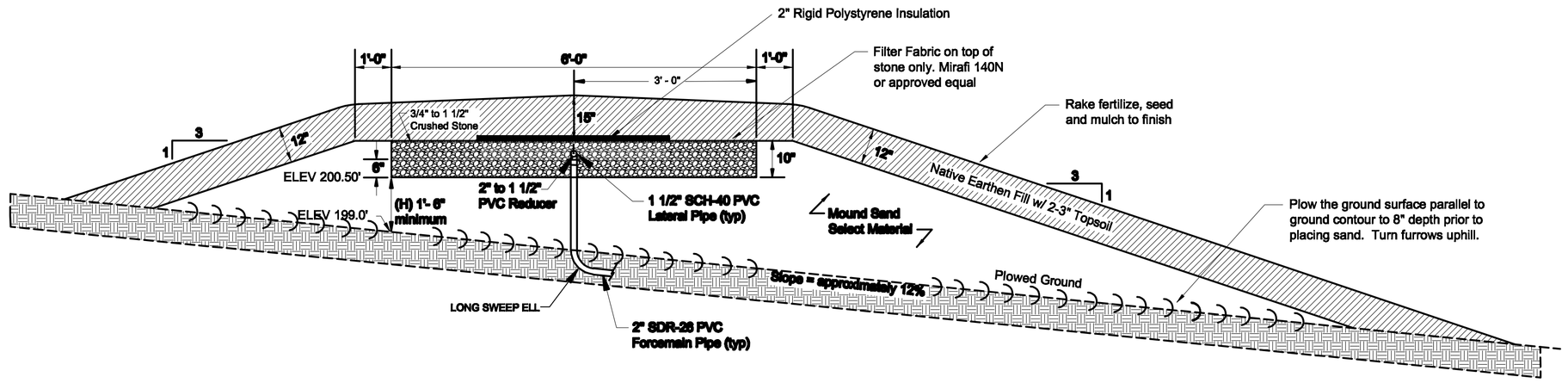
Revision #	Description	Date
0	x	x

TRAFTON ENGINEERING ASSOCIATES, LLC
343 Orchard Road
Charlotte, VT 05445
P: (802) 425 - 7761
F: (802) 425 - 7760
Web Site: traftonengineering.com
E-mail: traftonmc@gmavt.net

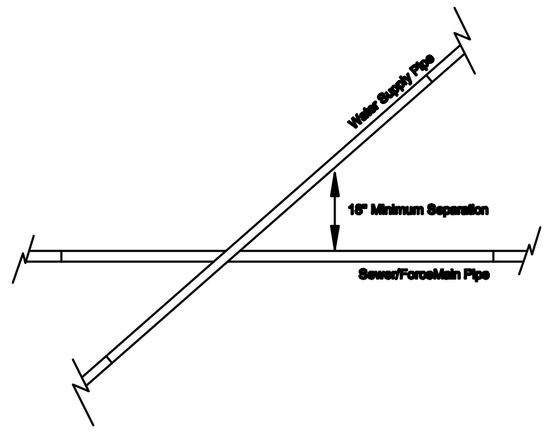
SITE PLAN

Rehkugler Wastewater
939 Dorset Street
Charlotte, VT

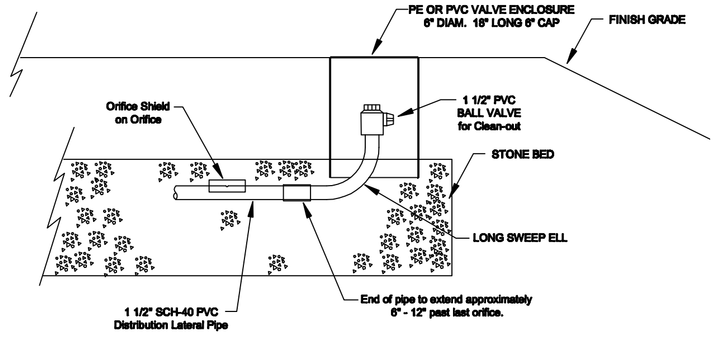
SIZE	DWG Date:	DWG NO.	REV
D	10/24/11	CHL11002.01	0
SCALE 1" = 60'	Drawn by: TMC	SHEET 1 of 4	



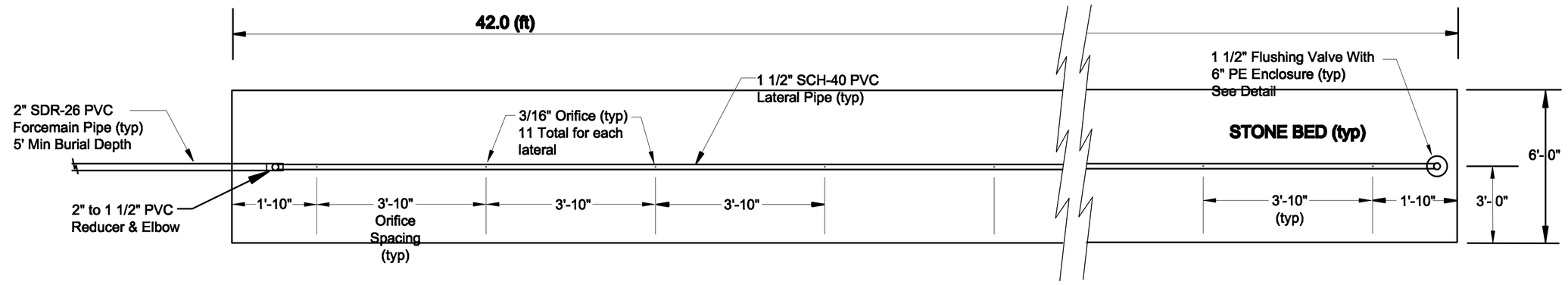
WASTEWATER MOUND PROFILE DETAIL
nts



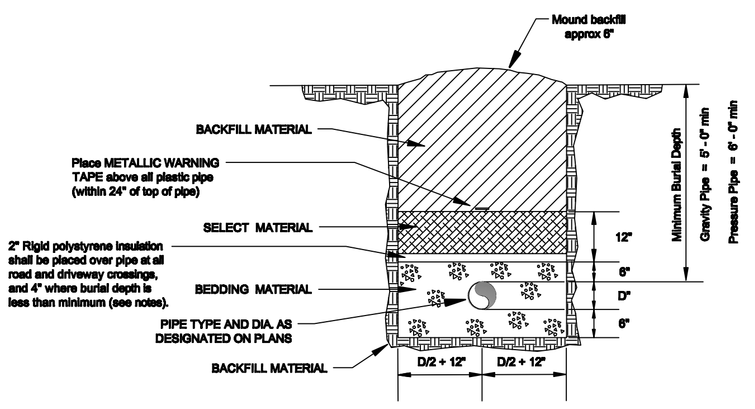
WATER/SEWER PIPE CROSSING DETAIL
nts



CLEANOUT VALVE & VALVE ENCLOSURE DETAIL
nts



STONE BED PIPING DETAIL
nts

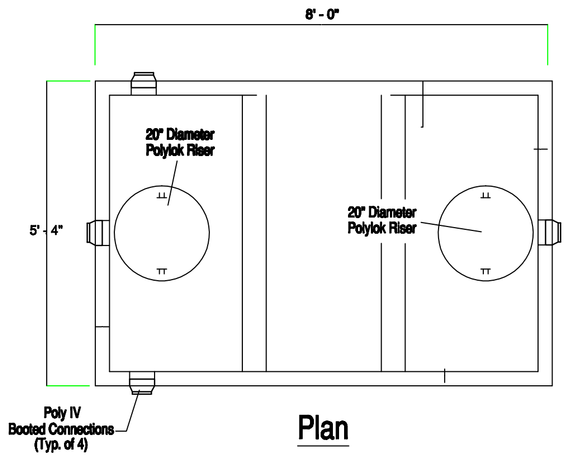


MATERIAL	SANITARY SEWER	WATER MAIN
Bedding Material	Type I, II	Type I or Sand
Select Material	Approved backfill free of stones greater than 1 1/2" diam. Compact in 6 - inch lifts.	
Backfill Material	Approved excavated material compacted in 12" lifts.	

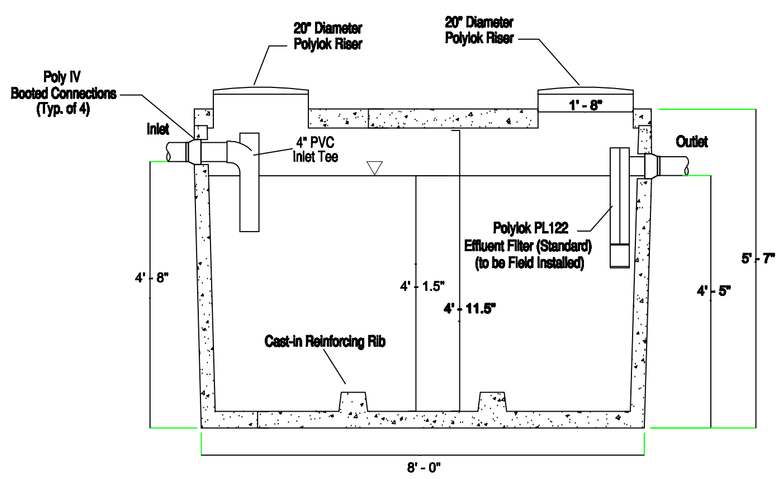
PIPE TRENCH DETAIL
nts

NOTES

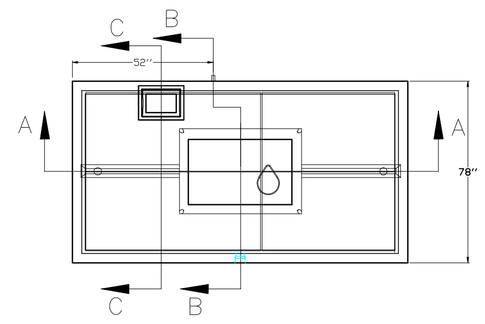
1. Backfill material shall contain no stones greater than 3" in diameter, no frozen lumps, and only minimal amounts of clay or organic material. All material to be placed in maximum of 12" lifts and compacted before placing next lift.
- Type I Material shall be 3/4" clean, hard crushed stone with no frozen lumps, clay or organic material.
- Type II Material shall be clean, hard crushed stone with a gradation by weight of: 100% passing a 1 1/2" square opening, 50% passing a 3/4" square opening and 0% passing a 1/2" square opening.
- Sand shall be free from silt, clay, loam or organic materials, conforming to VAOT 708.30 and shall not have any stones greater than 2". Gradation must be: 95% passing a 1 1/2" sieve, not less than 70% passing a 1" sieve, not less than 65% passing a #4 sieve, not more than 20% passing a #100 sieve, and not more than 5% passing a #200 sieve.
2. Backfill designated "compacted" is to 95% - 98% standard proctor, AASHTO T-99. All fill placed below and around any pipes and below pavement must meet this requirement.
3. For all trenches with a longitudinal grade of greater than 4% and/or where groundwater is present, install clay dams around pipe at 100' intervals.
4. Ductile iron pipe may be laid in an excavated trench without 6" bedding below the pipe only if the native material conforms to Type I or Sand.
5. Insulate water or sewer pipe with 4" rigid polystyrene insulation if cover is less than the Minimum Burial Depth. In no case may cover be less than 4 feet for sewer or 5 feet for water mains.



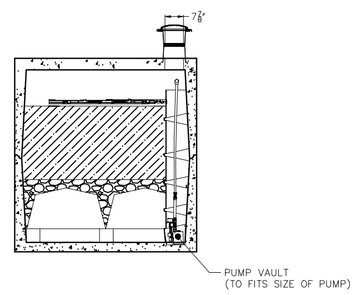
Plan



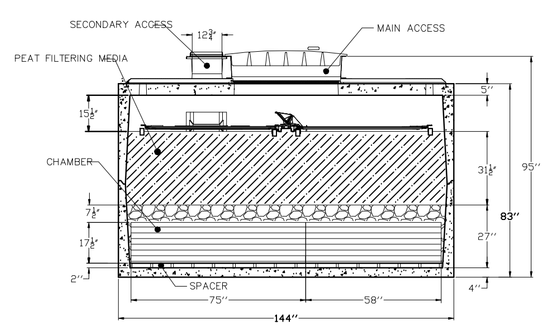
1,000 GALLON SEPTIC TANK
nts



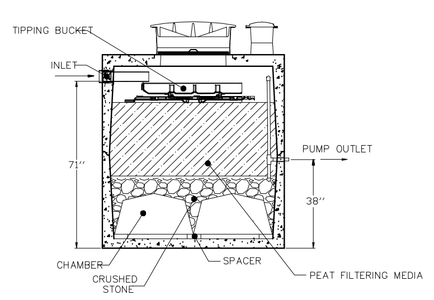
TOP VIEW



SECTION C–C



SECTION A–A



SECTION B–B

STB-650BR ECOFLOW PEAT BIOFILTER
nts

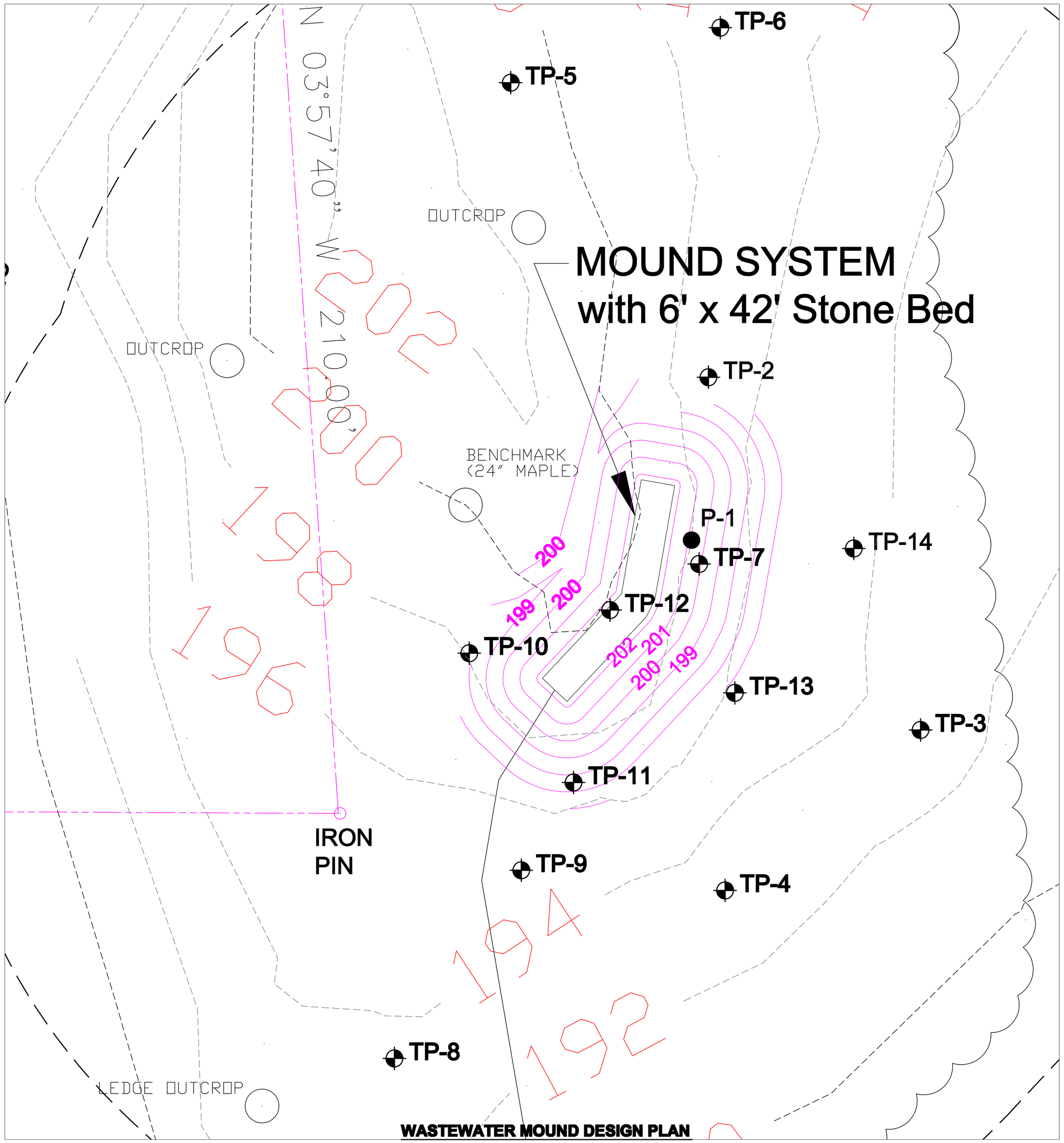
Revision #	Description	Date
0	X	X

TRAFTON ENGINEERING ASSOCIATES, LLC
343 Orchard Road
Charlotte, VT 05445
P: (802) 425 - 7761
F: (802) 425 - 7760
Web Site: traftonengineering.com
E-mail: traftonmc@gmavt.net

WW DETAILS

Rehkugler Wastewater
939 Dorset Street
Charlotte, VT

SIZE	FROM NO.	DWG NO.	REV
D	11/14/11	CHL 11002.03	0
SCALE		Drawn by: TMC	SHEET 3 of 4

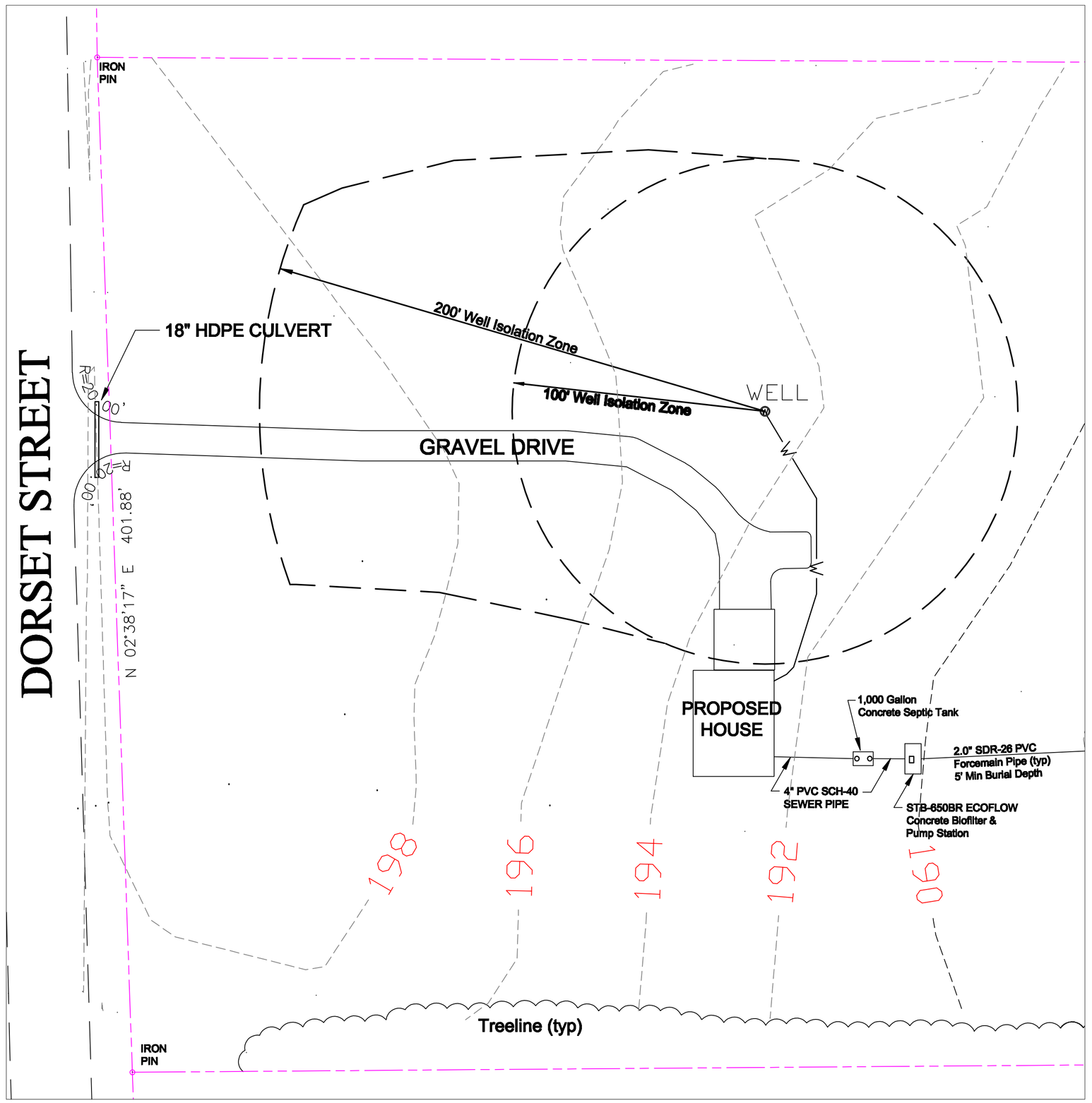


WASTEWATER MOUND DESIGN PLAN

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.



HOUSE/DRIVEWAY PLAN
Scale 1" =40'

Revision #	Description	Date
0	x	xx/xx/11

TRAFTON ENGINEERING ASSOCIATES, LLC
343 Orchard Road
Charlotte, VT 05445
P: (802) 425 - 7761
F: (802) 425 - 7760
Web Site: traftonengineering.com
E-mail: traftonassoc@gmavt.net

MOUND PLAN

Rehkugler Wastewater
939 Dorset Street
Charlotte, VT

SIZE	FROM NO.	DWG NO.	REV
D	10/24/11	CHL 11002.02	0
SCALE: varies	Drawn by: TMC	SHEET: 2 of 4	