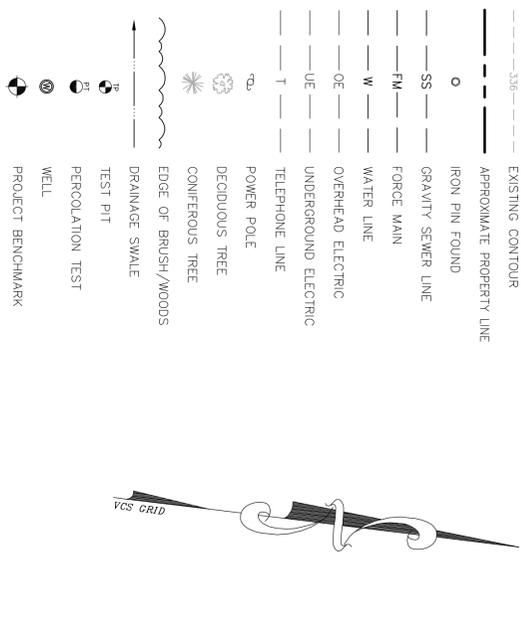


**LEGEND**

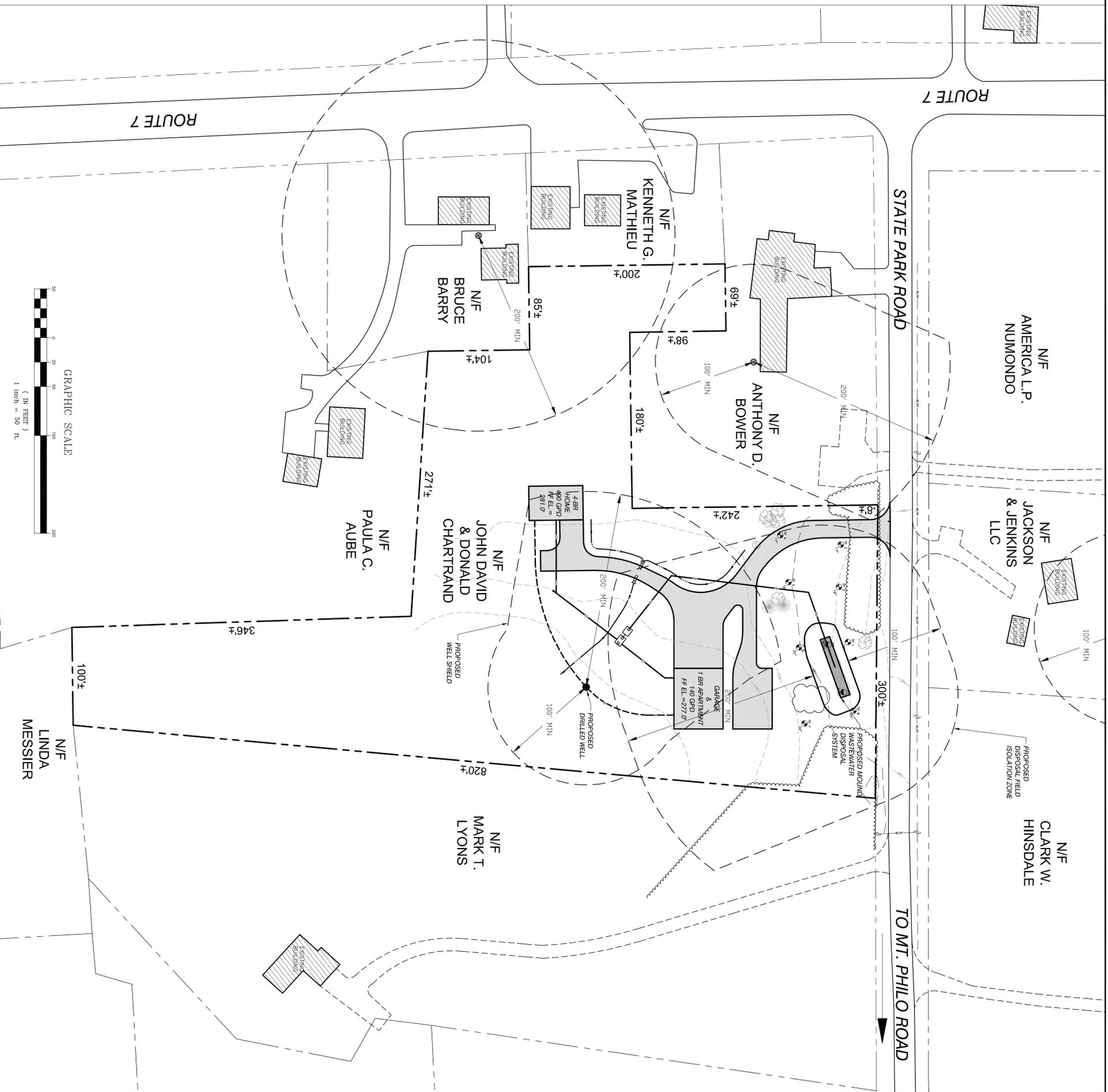


VERMONT WATER SUPPLY RULE - CHAPTER 21  
TABLE A - REQUIRED MINIMUM SEPARATION DISTANCES

Potential Source of Contamination and other Siting Limitations	Separation Distance
Roadway, Parking Lot (outer edge of shoulder)	25'
Driveway (less than 3 residences)	15'
Sewage System Disposal Fields	a.
Subsurface Wastewater Piping and Relined Tanks	50'
Property Line	10'b
Limit of Herbicide Application on Utility R.O.W.	100'c
Surface Water	10'd
Flood ways	e.
Buildings	10'
Concentrated Livestock Holding Area & Manure Storage Systems	200'
Hazardous or Solid Waste Disposal Site	f.
Non-sewage Wastewater Disposal Fields	f.
a. See Table B	
b. Increased to 50' when adjacent to agricultural cropland.	
c. Applies to rights-of-way (ROW) where herbicides have been applied in the past 12 months or may be applied in the future. This distance may be increased to 200' depending on the ingredient in the herbicide according to Vermont Regulations for Control of Pesticides.	
d. For Public water sources, see Appendix A, part 3, Subpart 3.3.8.	
e. Water sources shall not be located in a flood way.	
f. If a water source is potentially downgradient of a source of contamination, then the Agency shall apply the criteria in 11.4.2.2.	

**GENERAL NOTES**

- Utilities shown do not purport to constitute or represent all utilities located upon or adjacent to the surveyed premises. Existing utility locations are approximate only. The Contractor shall verify all utility conflicts. All discrepancies shall be reported to the Engineer. The Contractor shall contact Dig Safe (888-344-7233) prior to any construction.
- All existing utilities not incorporated into the final design shall be removed or abandoned as indicated on the plans or directed by the Engineer.
- The Contractor shall repair/restore all disturbed areas (on or off the site) as a direct or indirect result of the construction.
- All grassed areas shall be maintained until full vegetation is established.
- Maintain all trees outside of construction limits.
- The Contractor shall be responsible for all work necessary for complete and operable facilities and utilities.
- In addition to the requirements set in these plans and specifications, the Contractor shall complete the work in accordance with all permit conditions and any local Public Works Standards.
- The tolerance for finish grades for all pavement, walkways and lawn areas shall be 0.1 feet.
- Any dewatering necessary for the completion of the sitework shall be considered as part of the contract and shall be the Contractor's responsibility.
- The Contractor shall coordinate all work within Town Road R.O.W. with Town authorities.
- The Contractor shall install the electrical, cable and telephone services in accordance with the utility companies requirements.
- Existing pavement and tree stumps to be removed shall be disposed of at an approved off-site location. All pavement cuts shall be made with a pavement saw.
- If there are any conflicts or inconsistencies with the plans or specifications, the Contractor shall contact the Engineer for verification before work commences on the item in question.
- Property line information was abstracted from the Town of Charlotte Land Records and is based on pertinent deeds, parcel mapping and plans of record.
- This plan is not a boundary survey and is not intended to be used as one.
- Site information is based upon a field survey performed by Civil Engineering Associates, Inc. on May 29, 2012. Vertical datum scaled from USGS quad "Mt. Philo (MGVD 29)".



SITE ENGINEER:  
**CIVIL ENGINEERING ASSOCIATES, INC.**  
10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403  
802-864-2323 FAX: 802-864-2271 www.cemac.com

OWNER:  
**BENJAMIN CHARTRAND**  
3371 MT. PHILO RD  
CHARLOTTE, VERMONT

PROJECT:  
**PROPOSED WASTEWATER DISPOSAL SYSTEM**  
100 STATE PARK ROAD  
CHARLOTTE, VERMONT

DATE CHECKED: **BERNSTEIN**

DATE: **JULY 2012**

SCALE: **1" = 50'**

PROJ. NO.: **12173**

**OVERALL SITE PLAN**

DRAWING NUMBER: **C1.0**







**CIVIL ENGINEERING ASSOCIATES, INC.**  
 10 MAANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403  
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DRAWN: **JDL**  
 CHECKED: **DSM**  
 APPROVED: **DSM**

OWNER:

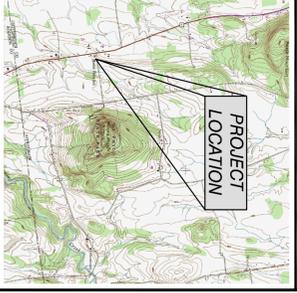
**BENJAMIN  
 CHARTRAND**

3371 MT. PHILO RD  
 CHARLOTTE, VERMONT

PROJECT:

**PROPOSED  
 WASTEWATER  
 DISPOSAL  
 SYSTEM**

100 STATE PARK ROAD  
 CHARLOTTE, VERMONT



**LOCATION MAP**

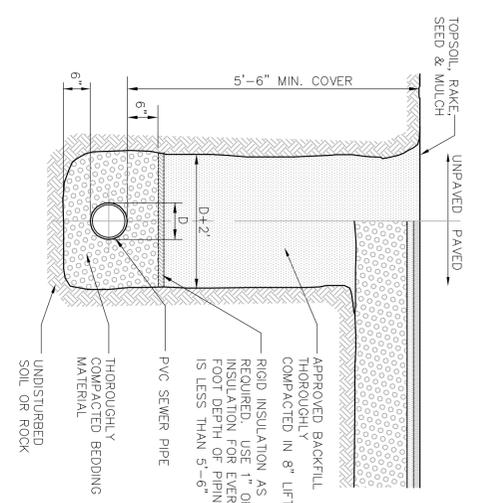
NOT TO SCALE

DATE	CHECKED	REVISION

**WASTEWATER  
 DETAILS**

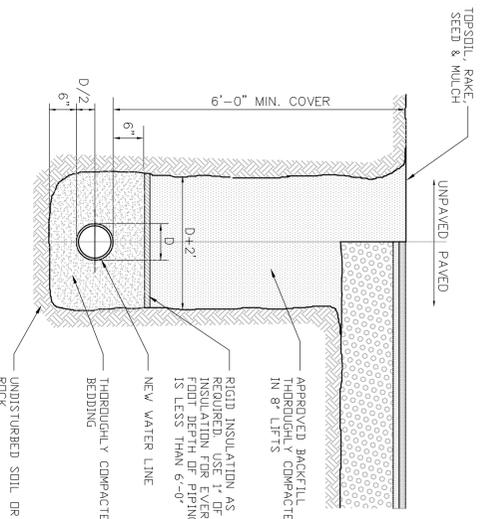
DATE: **JULY 2012**  
 SCALE: **AS SHOWN**  
 PROJ. NO.: **12173**

DRAWING NUMBER:  
**C3.1**



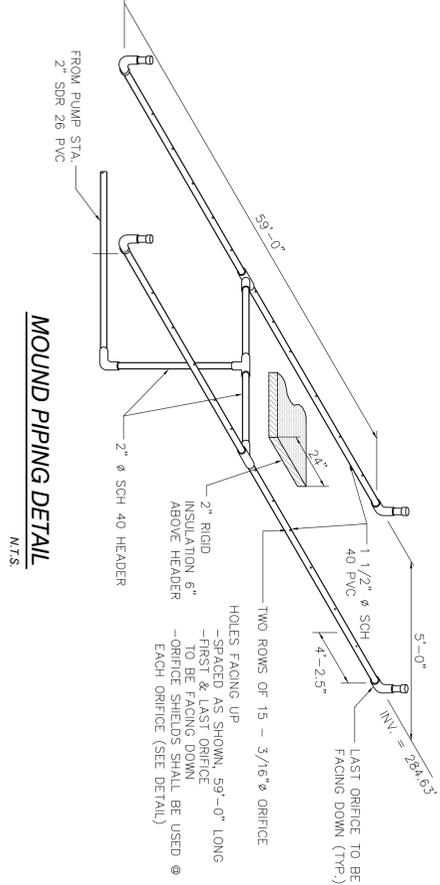
- NOTES:
1. Composition of backfill and bedding shall be a minimum of 90% (95% under roadway surfaces) of maximum dry density determined in the standard proctor test (ASTM D698).
  2. Bedding material shall not be placed on frozen subgrade.
  3. Approved backfill shall not contain any stones more than 2" maximum dimension within 2' of the outside of the pipe, or contain any frozen, wet, or organic material.
  4. Trenches shall be completely dewatered prior to 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). 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 shall consist of crushed stone, gravel or sand with a maximum size of 3/4". Submit a sample to the Engineer for approval.

**TYPICAL SEWER TRENCH DETAIL**  
 N.T.S.

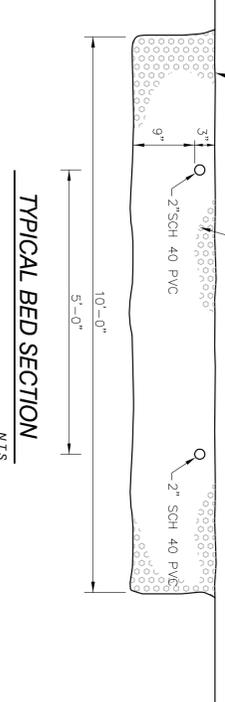


- NOTES:
1. Composition of backfill and bedding shall be a minimum of 90% (95% under roadway surfaces) of maximum dry density determined in the standard proctor test (ASTM D698).
  2. Bedding material shall not be placed on frozen subgrade.
  3. Approved backfill shall not contain any stones more than 12" in largest dimension (6" in roadways, 2" maximum diameter within 2' 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). 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.

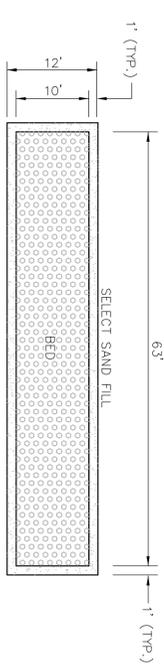
**TYPICAL WATER TRENCH DETAIL**  
 N.T.S.



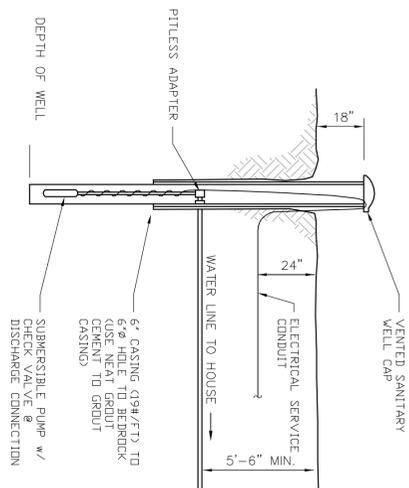
**MOUND PIPING DETAIL**  
 N.T.S.



**TYPICAL BED SECTION**  
 N.T.S.



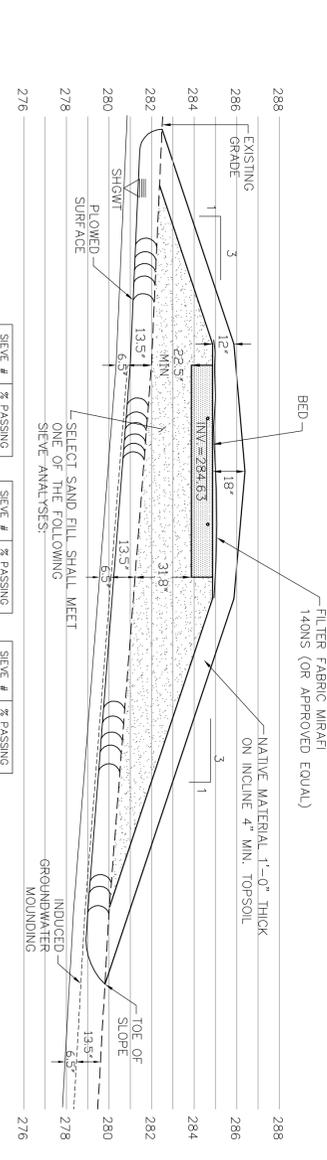
**TYPICAL BED PLAN**  
 N.T.S.



NOTE:  
 THE WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE VERMONT WATER SUPPLY RULE - CHAPTER 21 (PART II SMALL SCALE WATER SUPPLY SYSTEMS)

DESIGN BASIS:  
 AVERAGE DAILY DEMAND = 600 GALLONS (4 BEDROOMS @ 150 GPD)  
 MAXIMUM DAY DEMAND 600 GPD/720 MIN. = 0.8 GPM INSTANTANEOUS  
 PEAK DEMAND = 5 GPM (RESIDENTIAL UNIT)

**DRILLED WELL DETAIL**  
 N.T.S.



SEIVE #	% PASSING	SEIVE #	% PASSING	SEIVE #	% PASSING
3/8	85-100	4	95-100	3/8	85-100
40	25-75	6	80-100	40	50-50
60	0-10	8	50-60	60	0-10
100	0-5	30	25-60	200	0-10
200	0-5	50	10-50	100	2-10

**SECTION AA**  
 1/4" = 1'-0"