LEGEND

- EXISTING CONTOUR (336)
- PROPOSED CONTOUR (336)
- APPROXIMATE PROPERTY LINE
- APPROXIMATE SETBACK LINE
- IRON PIN FOUND
- GRAVITY SEWER LINE (SS)
- FORCE MAIN (FM)
- WATER LINE (W)
- UNDERGROUND CABLE TV (UC)
- UNDERGROUND ELECTRIC (UE)
- TELEPHONE LINE (T)
- GAS LINE (G)
- SHUT-OFF
- DECIDUOUS TREE
- CONIFEROUS TREE
- EDGE OF BRUSH/WOODS
- FENCE
- DRAINAGE SWALE
- TEST PIT (TP)
- PERCOLATION TEST (P)
- WELL (W)
- PROJECT BENCHMARK

GENERAL NOTES

1. 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 field 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.

2. All existing utilities not incorporated into the final design shall be removed or abandoned as indicated on the plans or directed by the Engineer.

3. The Contractor shall maintain as-built plans (with ties) for all underground utilities. Those plans shall be submitted to the Owner at the completion of the project.

4. The Contractor shall repair/restore all disturbed areas (on or off the site) as a direct or indirect result of the construction.

5. All grassed areas shall be maintained until full vegetation is established.

6. Maintain all trees outside of construction limits.

7. The Contractor shall be responsible for all work necessary for complete and operable facilities and utilities.

8. The Contractor shall submit shop drawings for all items and materials incorporated into the site work. Work shall not begin on any item until shop drawing approval is granted.

9. 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.

10. The tolerance for finish grades for all pavement, walkways and lawn areas shall be 0.1 feet.

11. Any dewatering necessary for the completion of the sitework shall be considered as part of the contract and shall be the Contractor's responsibility.

12. The Contractor shall coordinate all work within Town Road R.O.W. with Town authorities.

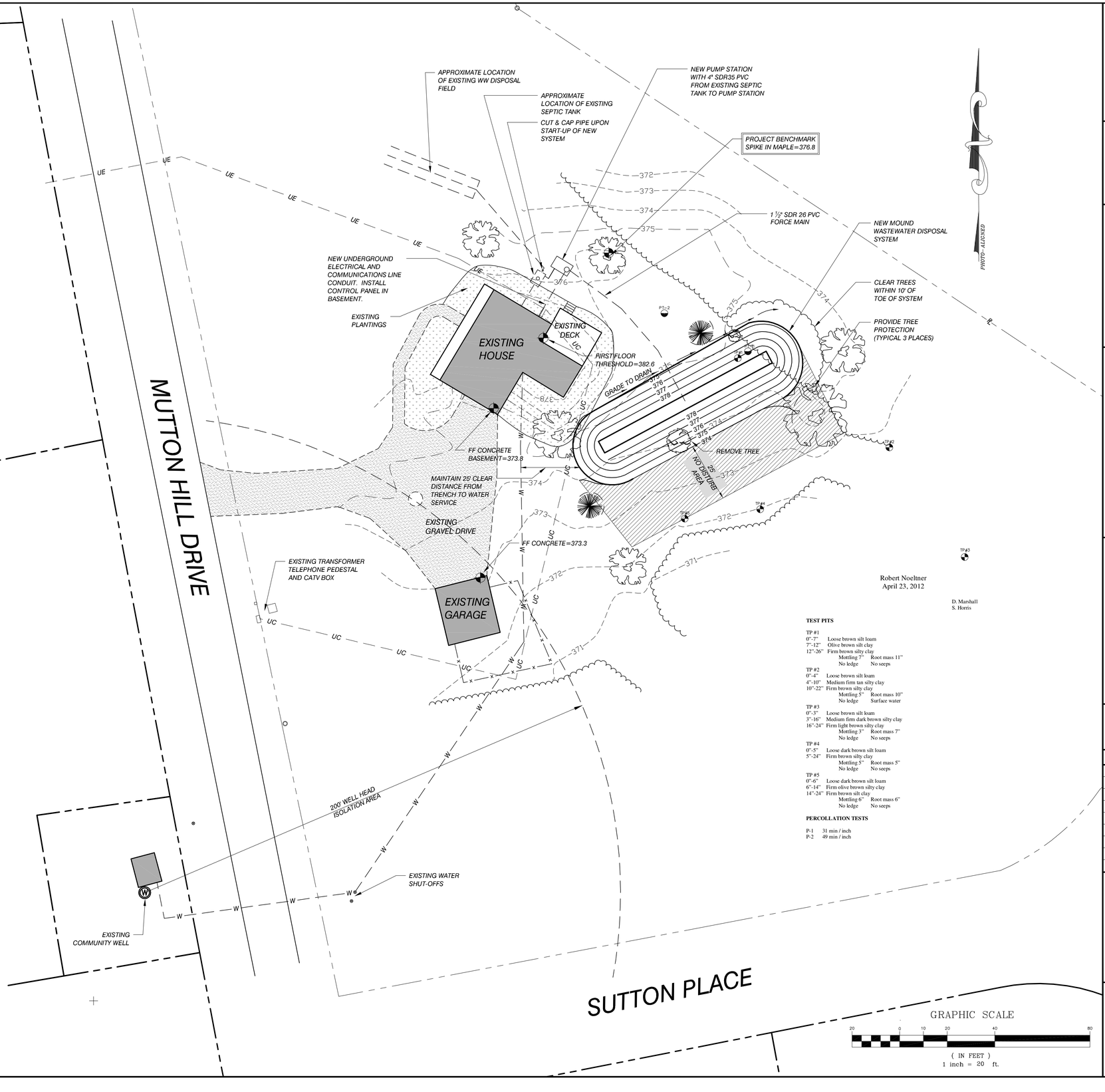
13. The Contractor shall install the electrical, cable and telephone services in accordance with the utility companies requirements.

14. 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.

15. If there are any conflicts or inconsistencies with the plans or specifications, the Contractor shall contact the Engineer for verification before work continues on the item in question.

16. Property line information is approximate and based on existing tax map information. This plan is not a boundary survey and is not intended to be used as one.

17. If the building is to be sprinklered, backflow prevention shall be provided in accordance with AWWA M14. The Site Contractor shall construct the water line to two feet above the finished floor. See mechanical plans for riser detail.



TEST PITS

TP #1
0"-7" Loose brown silt loam
7"-12" Olive brown silt clay
12"-26" Firm brown silty clay
Mottling 7" Root mass 11"
No ledge No seeps

TP #2
0"-4" Loose brown silt loam
4"-10" Medium firm tan silty clay
10"-22" Firm brown silty clay
Mottling 5" Root mass 10"
No ledge Surface water

TP #3
0"-3" Loose brown silt loam
3"-16" Medium firm dark brown silty clay
16"-24" Firm light brown silty clay
Mottling 3" Root mass 7"
No ledge No seeps

TP #4
0"-5" Loose dark brown silt loam
5"-24" Firm brown silty clay
Mottling 5" Root mass 5"
No ledge No seeps

TP #5
0"-6" Loose dark brown silt loam
6"-14" Firm olive brown silty clay
14"-24" Firm brown silt clay
Mottling 6" Root mass 6"
No ledge No seeps

PERCOLLATION TESTS

P-1 31 min / inch
P-2 49 min / inch

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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: MAB
CHECKED: DSM
APPROVED: DSM

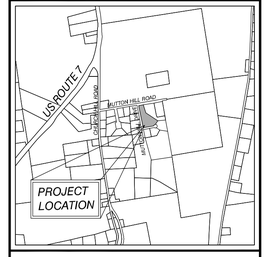
OWNER:

ROBERT AND CHRISTINE NOELTNER

91 MUTTON HILL DRIVE
CHARLOTTE, VERMONT

PROJECT:

PROPOSED REPLACEMENT WW SYSTEM



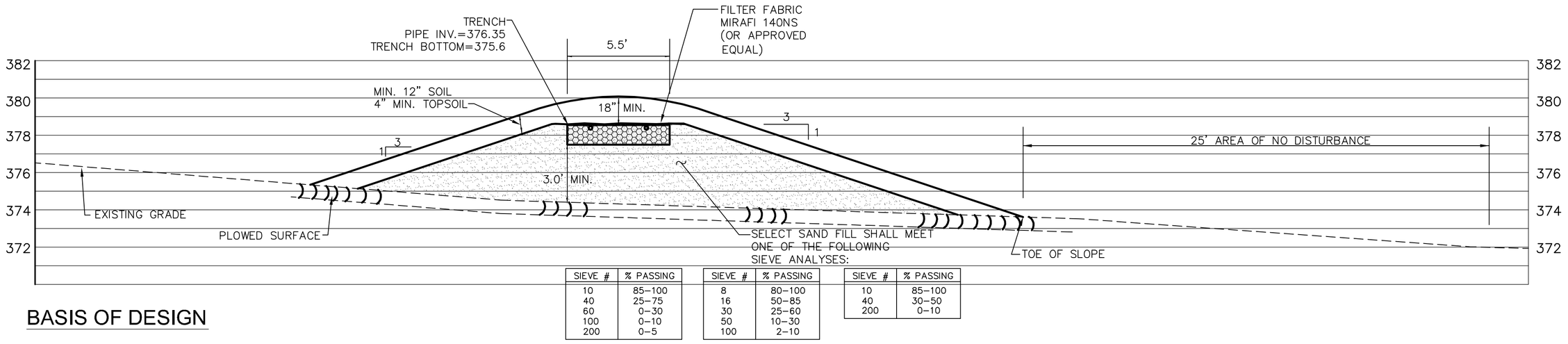
LOCATION MAP
1" = 2000'

DATE	CHECKED	REVISION

EXISTING CONDITIONS SITE PLAN

DATE: MAY, 2012
SCALE: 1" = 20'
PROJ. NO.: 12156

DRAWING NUMBER: C1



SIEVE #	% PASSING
10	85–100
40	25–75
60	0–30
100	0–10
200	0–5

SIEVE #	% PASSING
8	80–100
16	50–85
30	25–60
50	10–30
100	2–10

SIEVE #	% PASSING
10	85–100
40	30–50
200	0–10

CROSS–SECTION

1/4" = 1'–0"

BASIS OF DESIGN

1 - 3 BR HOME x 420GPD = 420 GPD

APLLICATION RATE 1.0 GPD/SF

REQUIRED BED AREA = 420/1.0 = 420 SF

BED PROVIDED 80 x 5.5 = 840 SF

BASIL AREA REQUIRED

420 GPD/0.57 GPD/SF = 737 SF

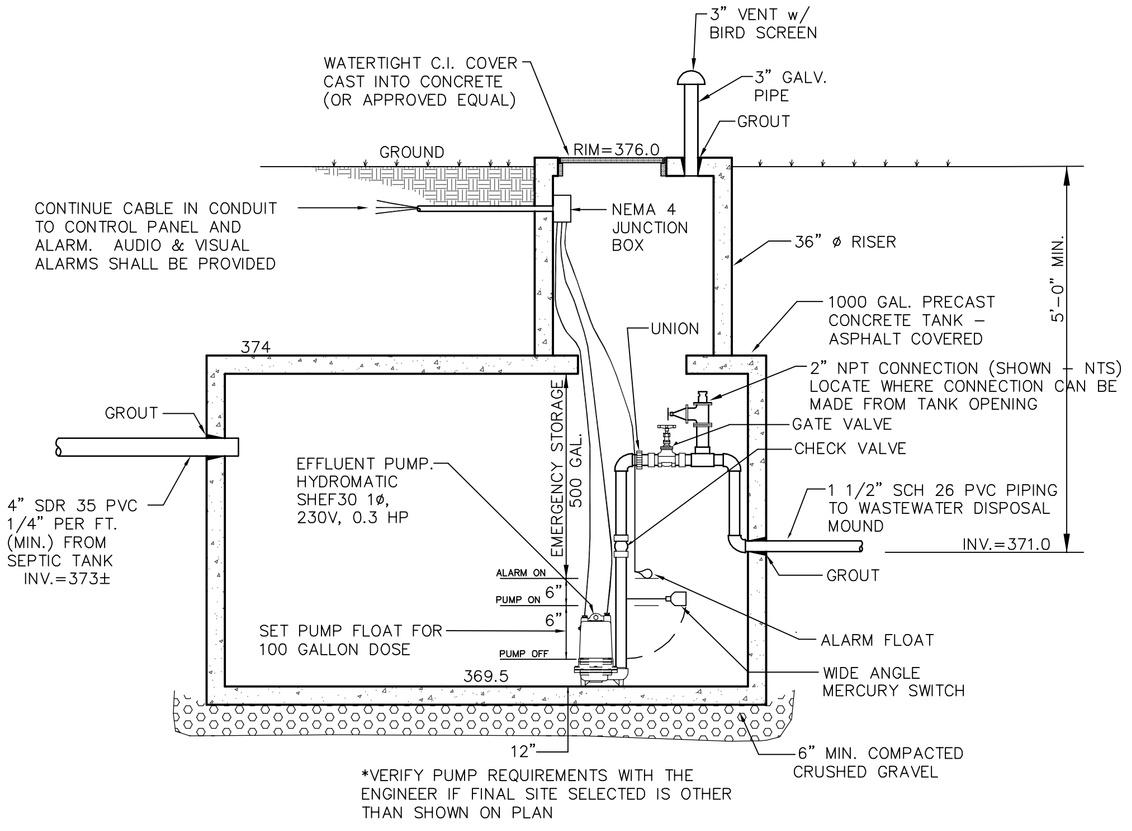
BASIL AREA PROVIDED = 2028 SF

MINIMUM ISOLATION DISTANCES

(Contact Engineer for any Clarifications or Conflicts)

	Horizontal Distance (Ft.) Edge of Disposal Field Stone	Septic Tank
Shallow Well or Spring, Up Slope of Disposal Field	150*(Min.)	75
Shallow Well or Spring, Down Slope of Disposal Field	500*(Min.)	--
Drilled Well Serving 1 Home – Up Slope of Disposal Field	100*(Min.)	50
Drilled Well Serving 1 Home – Down Slope of Disposal Field	200*(Min.)	--
Municipal Water Main	50	50
Service Water Lines	25	25
Roadways, Driveways, Buildings	10	5
Stream, Watercourse, Lake or Impoundment	50	25
Drainage Swales, Roadway Ditches	25	--
Top of embankment or slope > 30%	25	10
Trees	10	10
Foundation, Footing Drains	35 (75 Downslope)	10
Replacement Area	10	10
Property Line	25	10

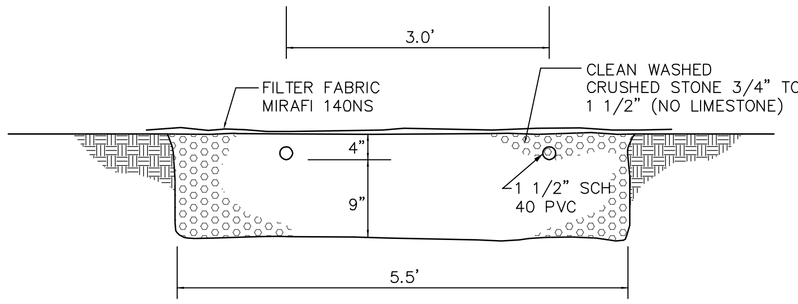
*Isolation distances to well locations may vary due to site conditions – contact Engineer for verification with the Vermont Water Supply Rule Regulations.



*VERIFY PUMP REQUIREMENTS WITH THE ENGINEER IF FINAL SITE SELECTED IS OTHER THAN SHOWN ON PLAN

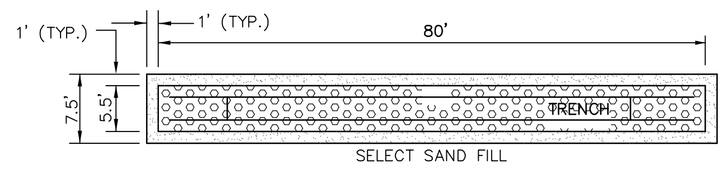
1000 GALLON PUMP STATION DETAIL

N.T.S.



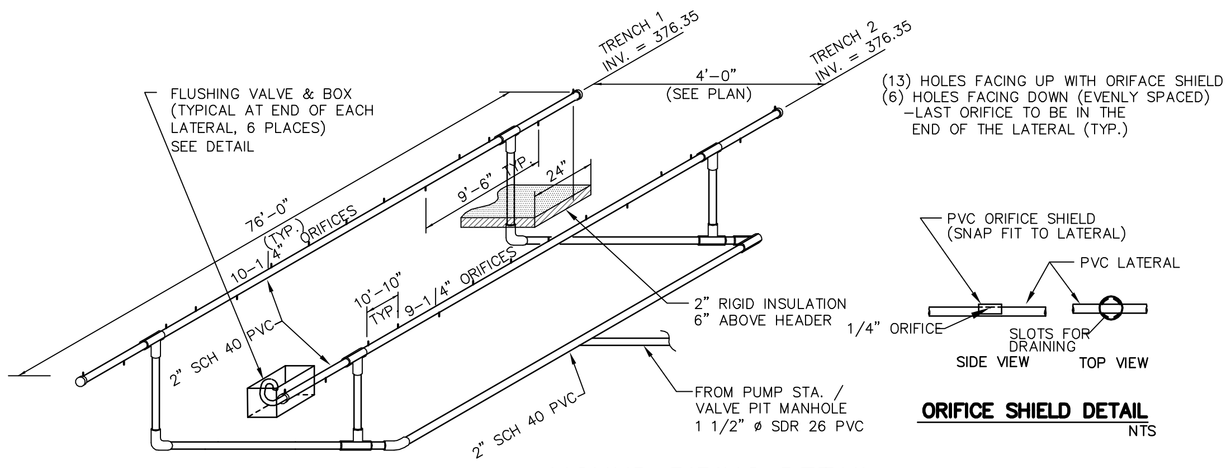
TYPICAL DISPOSAL FIELD TRENCH SECTION

N.T.S.



TYPICAL TRENCH PLAN

N.T.S.

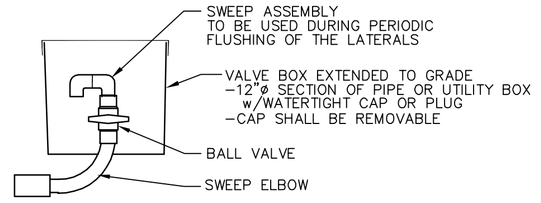


MOUND PIPING DETAIL

N.T.S.

ORIFICE SHIELD DETAIL

NTS



FLUSHING VALVE DETAIL

NTS

SITE ENGINEER:

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

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CHECKED: DSM

APPROVED: DSM

OWNER:

ROBERT AND CHRISTINE NOELTNER

91 MUTTON HILL DRIVE
CHARLOTTE, VERMONT

PROJECT:

PROPOSED REPLACEMENT WW SYSTEM

DATE	CHECKED	REVISION
1–22–10	DSM	REVISED FORCE MAIN SIZE

WASTEWATER DISPOSAL SYSTEM DETAILS & SECTIONS

DATE: MAY 2012

SCALE: AS SHOWN

PROJ. NO.: 12156

DRAWING NUMBER: C2