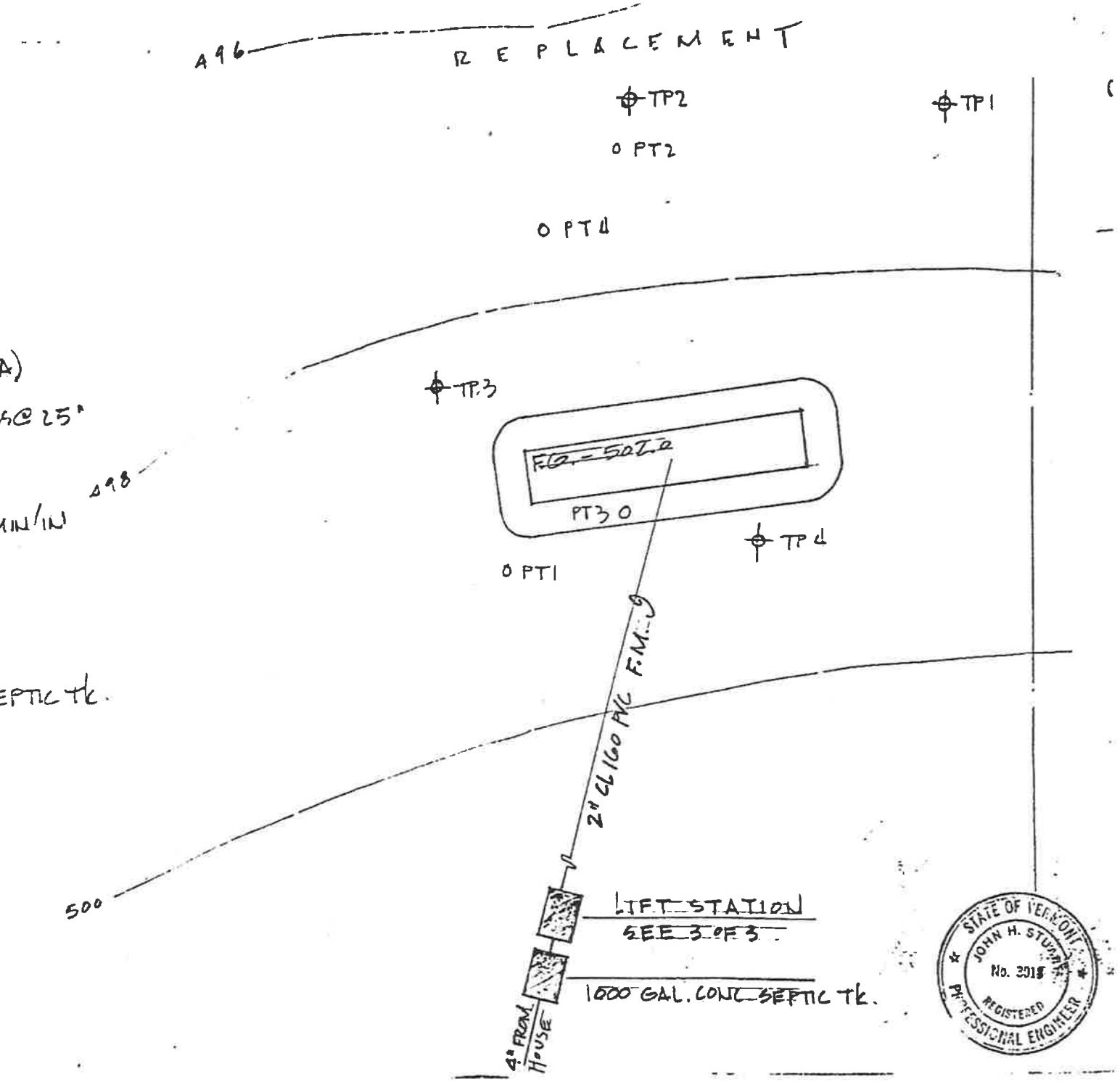
SITE PLAN

SCALE: 1" = 20'



SOIL TEST DATA (5/18/87)

TT 1-4 (CONFIRM EARLIER DATA)

0-6 TOPSOIL

6-28 SILT LOAM — LT. MOTTLES @ 25"

28-36 SILT (MED. COMP.)

36-52 STONEY SILT

52-84 STONEY SILTY SAND

PERC RATES 18 MIN/IN & 22 MIN/IN

DESIGN CRITERIA

4 BR x 150 GAL/BR = 600 GPD

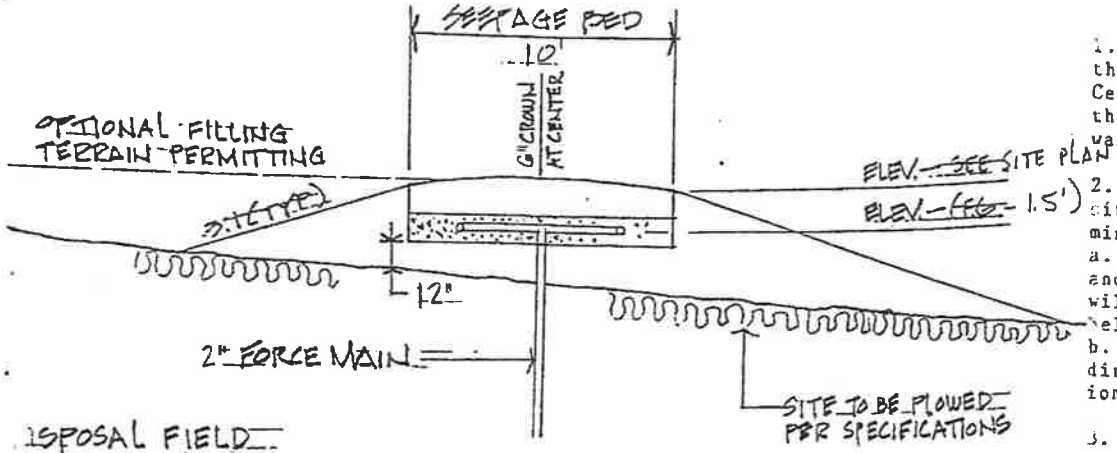
600 GPD ÷ 1.2 GAL/SF = 500 SF

USE 10' x 50' SEEPAGE BED

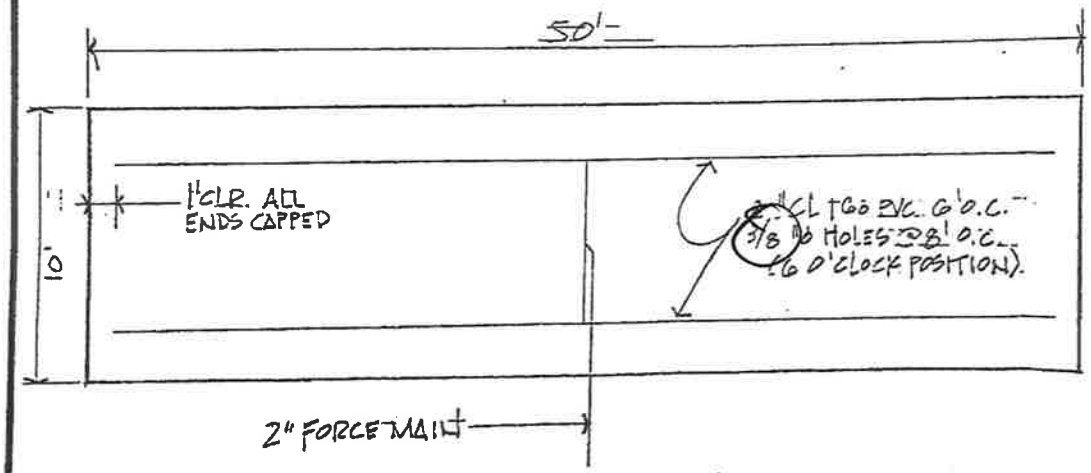
USE 1000 GALLON CONC SEPTIC TK.

PT3 - 6 MIN/IN

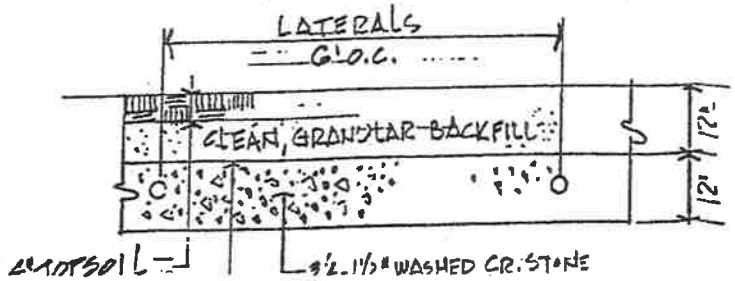
PT4 - 10 MIN/IN



DISPOSAL FIELD ELEVATION
1" = 5'



SEEPAGE BED PLAN
1" = 5'



SEEPAGE BED SECTION
1" = 5'

CONSTRUCTION NOTES

1. Construction of the mound system shall be under the direct supervision of a qualified consultant. Certification will be issued by that individual at the conclusion of the completed system that all work was performed in accordance with the approved plans.

2. Prior to construction of the system the following site improvements shall be carefully undertaken to minimize disturbance to the disposal system site:
a. Any trees within the fill limits are to be cut and the stumps removed. The resultant depression will be filled with the approved sand fill specified below.
b. The force main will be installed to a point directly below the field and then rise for connection with the lateral system.

3. Upon completion of the force main installation, the entire fill area shall be plowed parallel to the contours to a depth of 7-8" with a mold board plow, casting the soil up-hill. Thereafter the site will be fenced or otherwise marked to preclude traffic over the site.

4. Fill material will consist of sands possessing the following sieve properties: 85% passing #10, 30-50% passing #40 and 5-10% passing the #200 sieve.

5. Fill shall be spread from one corner of the site with either a small rubber tired or tracked machine maintaining at least 6 inches of sand between the tires/tracks and plowed soil. Placement shall not occur if soil moisture is too high or if furrows have been exposed to weather.

6. After placement of the sand and hand leveled, the stone is to be placed followed by the lateral piping. The consultant will conduct a test of the system at this juncture by placing 1/4 inch holes at the ends of the laterals and pumping clean water through the system. The resultant jets will be measured and if the difference between the extremes is less than 15% the test is acceptable. Greater differential will require corrections as necessary and re-testing. After covering of the pipes with stone the absorption area will be covered with filter fabric or untreated building paper. The system will be brought to final grade with clean granular fill material and topsoil followed by fertilizer, seed and mulch.

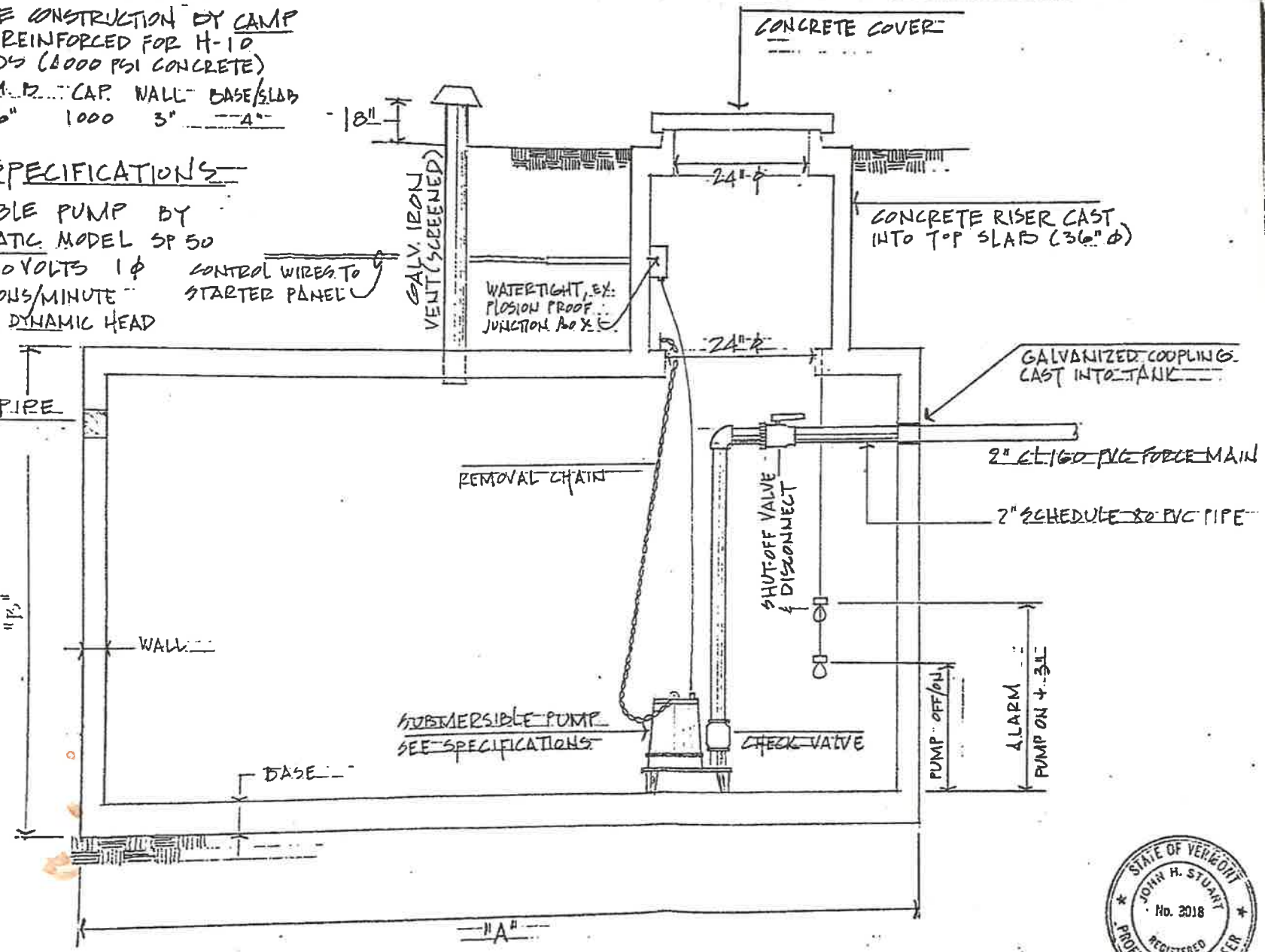
TANK SPECIFICATIONS

ONE PIECE CONSTRUCTION BY CAMP PRECAST, REINFORCED FOR H-10 WHEEL LOADS (4000 PSI CONCRETE)

DIM. A	DIM. B	CAP.	WALL	BASE/SLAB
8'6"	5'6"	1000	3"	4"

PUMP SPECIFICATIONS

SUBMERSIBLE PUMP BY HYDR-O-MATIC MODEL SP 50
0.5 HP, 230 VOLTS 1 ϕ
27 GALLONS/MINUTE
20' TOTAL DYNAMIC HEAD



STATE OF VERMONT
JOHN H. STUART
No. 3018
REGISTERED
PROFESSIONAL ENGINEER

JHSTUART

December 28, 1987

Rick Speaker
P.O. Box 1206
Charlotte, VT 05445

Dear Rick:

I have completed an inspection of your mound system located on Old Town Road in Charlotte and found it to be in reasonable compliance with the approved design.

The system was observed while under pressure and the resultant distribution was found to be acceptable.

The lift station vent was found to be missing and should be installed per the plans to complete the facility.

Regards,

John H. Stuart, P.E.

RECEIVED
JAN - 6 1988
CHARLOTTE
PLANNING & ZONING

CIVIL & ENVIRONMENTAL ENGINEERS P.O. BOX 367, ESSEX CTR., VERMONT 05451 TELEPHONE 802 • 878 • 5171

CIVIL ENGINEERING ASSOCIATES, INC.

928 Falls Road
P.O. Box 485
Shelburne, VT 05482

Phone: 802-985-2323
Fax: 802-985-2271
E-Mail: mail@cea-vt.com

March 18, 2002

Mr. Tom Mansfield
Town of Charlotte
P.O. Box 119
Charlotte, VT 05445

Re: Hartley Residence
287 ~~Lower~~ Old Trail, Charlotte
Upper

Dear Tom:

On March 18, 2002 I visited the Hartley residence on ~~Lower~~ Old Trail for the purpose of evaluating the wastewater disposal system that was constructed approximately 15 years ago (Lot #1 - Forsythe subdivision). A brief summary of my observations and comments follows.

- The system was constructed in the location shown on the plans as the replacement area. The system dimensions were consistent with the design plans.
- There were no signs of system failure or surfacing effluent.
- The pump station was fully operational. There is a small weep hole in the bottom of the force main (within the station) to back drain the main in order to prevent freezing in the mound system.
- The alarm was operational.

Based upon our recent site visit, I hereby certify that the wastewater disposal system serving the Hartley residence was constructed in general conformance with the approved plans.

Sincerely,

Stephen A. Vock, P.E.

SAV:pao

cc: Jason Ruwet
Chris Von Trapp