TEST PIT DATA:

TEST PIT 3/24/23

SEASONAL HIGH WATER TABLE — 72"

TOPSOIL 0"

0 – 12" 10YR 4/3, brown, sandy gravel, compact

12 – 28" ORIGINAL TOPSOIL/FILL

28 – 72" 10Y 5/4, yellowish brown, very coarse gravelly sand, loose

PERCOLATION RATE

1" / 2 MIN.

3/24/23

NO OBSERVED WATER

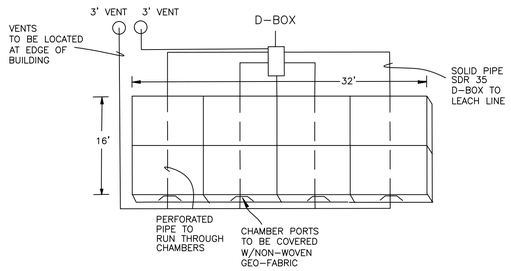
NO OBSERVED LEDGE

SOIL TYPE: 220B

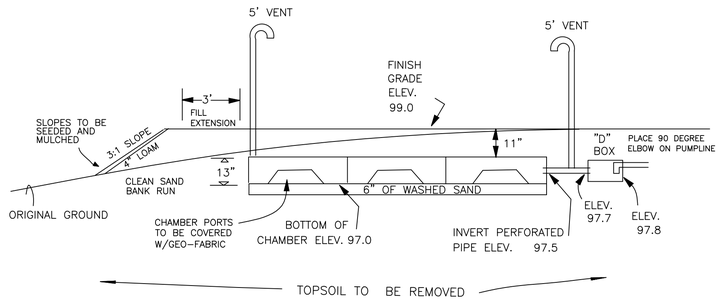
Boscawen

Web Soil Survey

http://websoilsurvey.nrcs.usda.gov/Accessed March 24, 2023

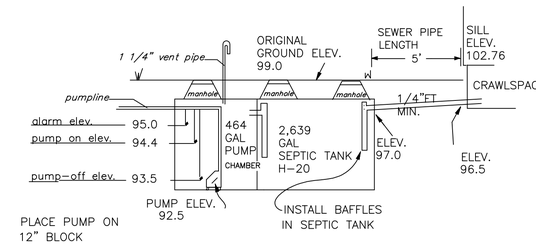


LEACH BED LAYOUT

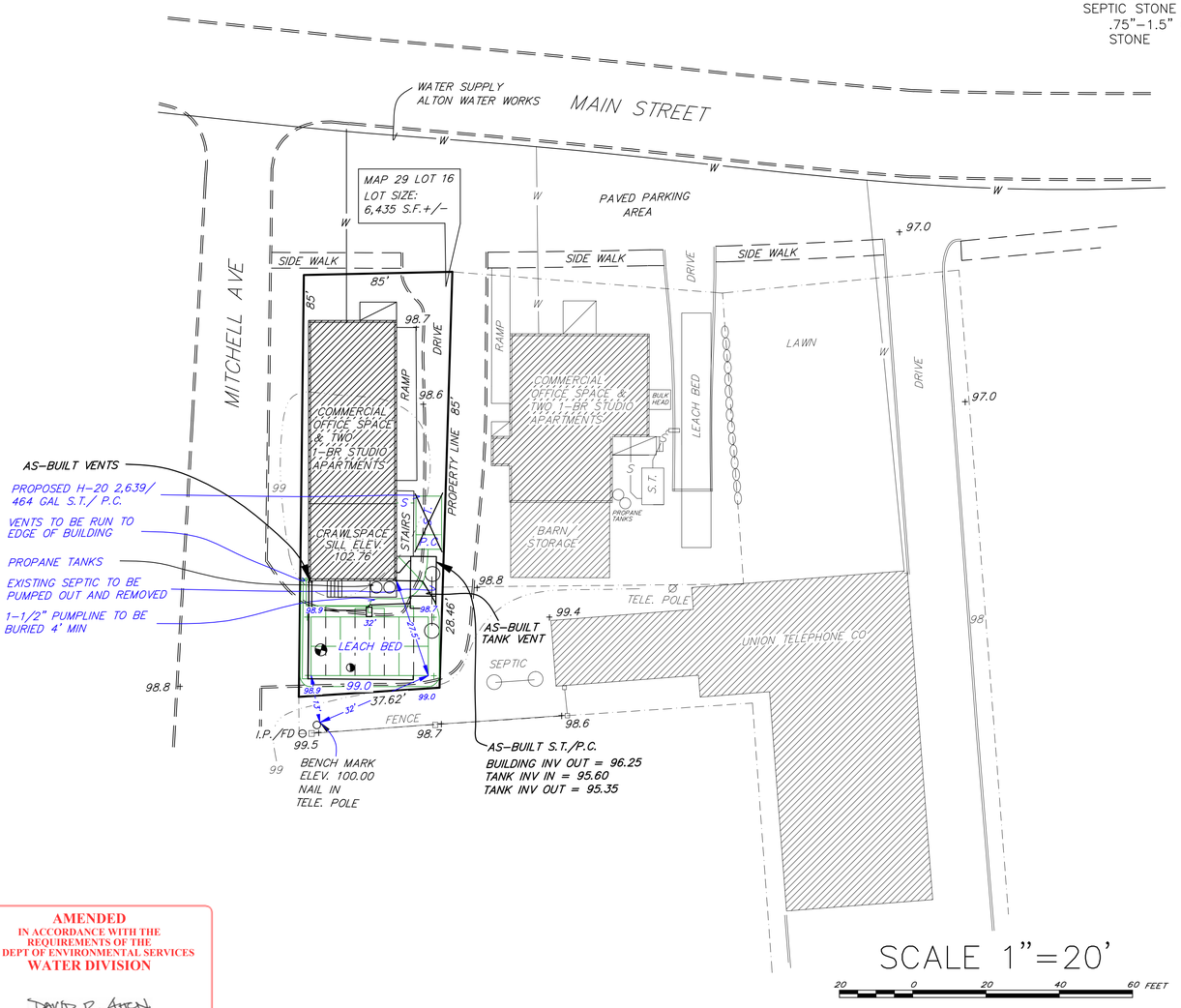


NOTE: PLACE ONE FOOT OF SEPTIC STONE AROUND CONCRETE CHAMBERS
SEPTIC STONE TO BE .75"–1.5" CRUSHED STONE

ELEVATION PROFILE



SEPTIC TANK/ PUMP CHAMBER DETAIL



SCALE 1"=20'

20 0 20 40 60 FEET

THIS IS NOT A SURVEY PLAN DONE BY A LICENSED LAND SURVEYOR

AMENDED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION

DAVID B. ALLEN
Date: 5/16/2023

#eCA2023032918-A

PUMP CALCULATIONS:

Design flow = 600 gals/day

use 75 gals/dose
pump chamber capacity = 464 gal
75/464 x 68" pump chamber height = 11"
Set floats 11" apart.

HEAD:

STATIC =	4.3'
DYNAMIC =	0.9'
FITTINGS =	1.0'
TOTAL =	6.2'

DESIGN FLOW:
2 – ONE BEDROOM STUDIO APARTMENT @ 225 GPD EACH = 450 GPD
UNSPECIFIED OFFICE SPACE = 150 GPD
TOTAL FLOW = 600 GPD

CONCRETE CHAMBER NOTES:

8 H–20 PRECAST CONCRETE AERATION CHAMBERS by A.J. Foss or equal w/ perforated pipe running through the chambers as shown.

Total leach bed area is 512 S.F.

Each chamber is 8'L X 8'W X 13" H

Chambers to be laid level.

Chamber vents to be covered with non–woven filter–fabric.

1' of septic stone to be placed around concrete chambers.

GENERAL NOTES:

Septic tank/pump chamber to be H–20 2639/464 gal precast concrete from A.J. Foss or equal.
10 outlet distribution box from A.J. Foss or equal.
4" SCH 40 PVC from house to septic tank.
4" SDR 35 effluent pipe from septic tank to d–box.
4" SDR 35 effluent pipe from d–box to leach lines.
Topsoil to be removed under leach bed and fill area
Septic tank to be 5' minimum from drained foundation.
Septic tank to be 5' minimum from property line.
EDA to be 15' minimum from drained foundation.
EDA to be 10' minimum from property line.
All connections between a septic tank and the pipes leading to and exiting from the septic tank shall be sealed with a watertight, flexible joint connector.
Alternate leach bed same as proposed.
Design intent: There are approx. 2.0 FEET BELOW original ground on the high contour of the designed effluent disposal area.
The bottom of the effluent disposal area shall be constructed at elevation 97.0
NHDES Subdivision Approval # Pre–1967 .
This plan is to upgrade to a state approved septic system.
Existing septic tank to be pumped out and removed.
Existing leach bed to be removed.
There are no wetlands within 75' of proposed septic system, per Env–Wq 1014.06
There are no cemeteries within 100' of the septic system.
Deed book 2392 page 0990

PUMP NOTES:

Sewer pump to be MYERS ME3H (20.0 gpm minimum at 6.2' total dynamic head) or equal.

Pumpline to be 1 1/2" black plastic, PVC 125 psi minimum, pipe.

Pumpline to have checkvalve and union at pump chamber.

Set pump on–off float switches to be 11" apart.

Float switches to be mechanical.

Alarm system to be installed at pump chamber.

Pump chamber to have manhole to provide access.

Septic tank, Pump chamber and all pipe connections to these to be sealed.

Total length of pumpline is 30'.

Pipeline to be buried 4' minimum underground.

Pipeline to be buried 5' minimum under driveway and placed in conduit.

NEW HAMPSHIRE
Designer of Subsurface Disposal Systems
★ ★ ★
May A. Varney
No. 1838
Department of Environmental Services

DESIGNER:
May A. Varney
93 Powder Mill Road
Alton, N.H. 03809
603–875–7110

OWNER:
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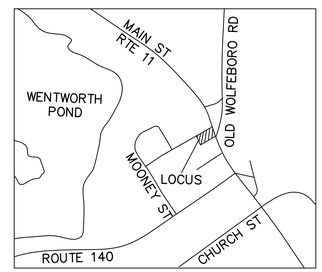
141 Main Street
Alton, NH 03809
603–231–8841

VARNEY ENGINEERING, LLC
93 POWDER MILL RD
ALTON, NH 03809
twvarney@worldpath.net
603-875-7110



LOCATION MAP

AS–BUILT MAY 8, 2023 ECA2023032918: MOVED S.T. AND VENTS

SEPTIC SYSTEM DESIGN

LAND OF

THE VILLAGE PLACE ALTON LLC

TAX MAP 29, LOT 17

141 MAIN STREET

ALTON, NH

MARCH 23, 2023