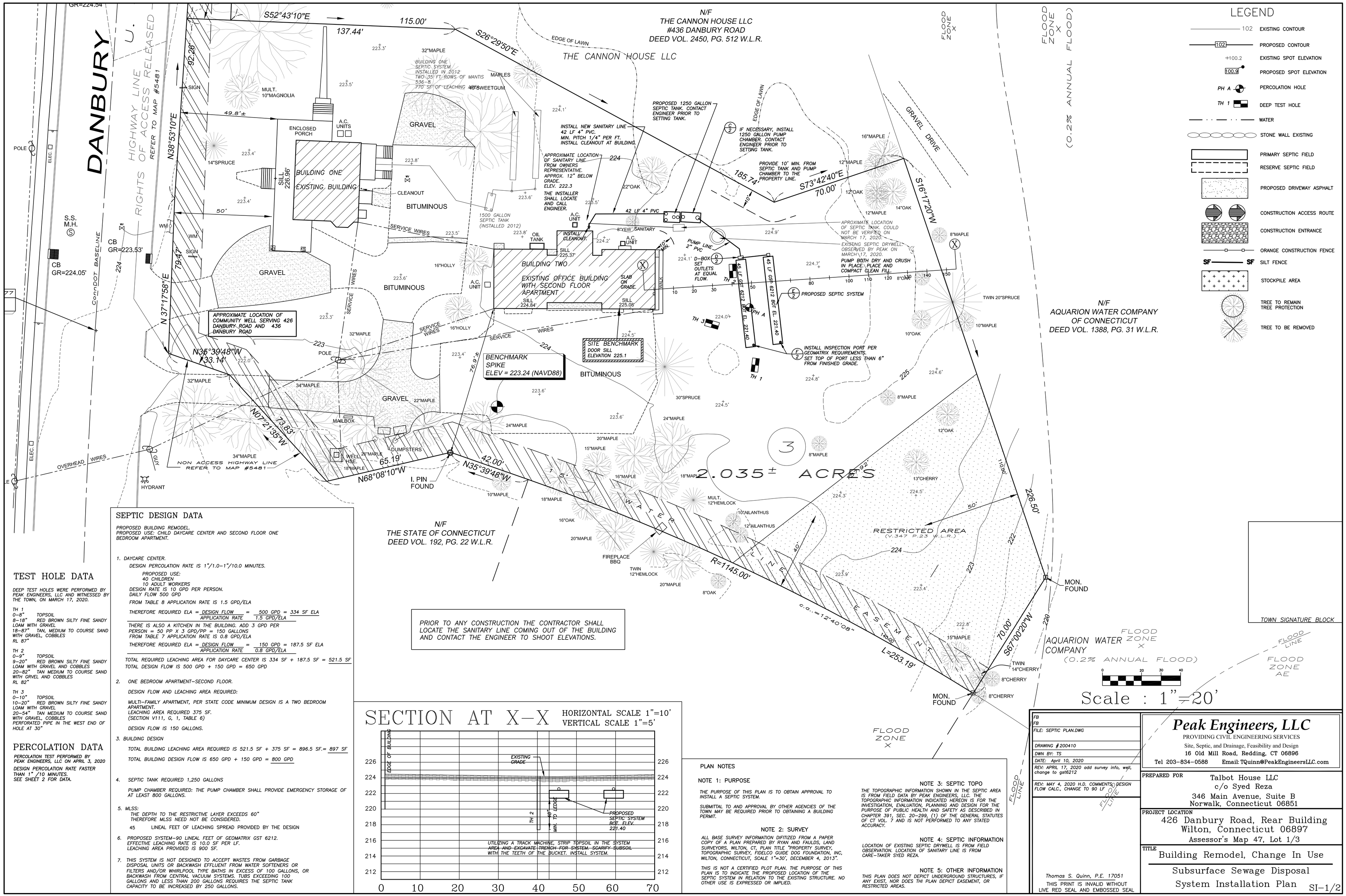

LEGEND

- 102 EXISTING CONTOUR
- 102 PROPOSED CONTOUR
- +100.2 EXISTING SPOT ELEVATION
- 100.9 PROPOSED SPOT ELEVATION
- PH A PERCOLATION HOLE
- TH 1 DEEP TEST HOLE
- WATER
- STONE WALL EXISTING
- PRIMARY SEPTIC FIELD
- RESERVE SEPTIC FIELD
- PROPOSED DRIVEWAY ASPHALT
- CONSTRUCTION ACCESS ROUTE
- CONSTRUCTION ENTRANCE
- ORANGE CONSTRUCTION FENCE
- SF SILT FENCE SF
- STOCKPILE AREA
- TREE TO REMAIN TREE PROTECTION
- TREE TO BE REMOVED

TEST HOLE DATA

DEEP TEST HOLES WERE PERFORMED BY PEAK ENGINEERS, LLC AND WITNESSED BY THE TOWN, ON MARCH 17, 2020.

TH 1
0–8" TOPSOIL
8–18" RED BROWN SILTY FINE SANDY LOAM WITH GRAVEL
18–87" TAN, MEDIUM TO COURSE SAND WITH GRAVEL, COBBLES
RL 87"

TH 2
0–9" TOPSOIL
9–20" RED BROWN SILTY FINE SANDY LOAM WITH GRAVEL AND COBBLES
20–82" TAN MEDIUM TO COURSE SAND WITH GRVEL AND COBBLES
RL 82"

TH 3
0–10" TOPSOIL
10–20" RED BROWN SILTY FINE SANDY LOAM WITH GRAVEL
20–54" TAN MEDIUM TO COURSE SAND WITH GRAVEL, COBBLES
PERFORATED PIPE IN THE WEST END OF HOLE AT 30"

PERCOLATION DATA

PERCOLATION TEST PERFORMED BY PEAK ENGINEERS, LLC ON APRIL 3, 2020

DESIGN PERCOLATION RATE FASTER THAN 1" /10 MINUTES.
SEE SHEET 2 FOR DATA.

SEPTIC DESIGN DATA

PROPOSED BUILDING REMODEL.
PROPOSED USE: CHILD DAYCARE CENTER AND SECOND FLOOR ONE BEDROOM APARTMENT.

1. DAYCARE CENTER.
   DESIGN PERCOLATION RATE IS 1"/1.0–1"/10.0 MINUTES.
   PROPOSED USE:
   40 CHILDREN
   10 ADULT WORKERS
   DESIGN RATE IS 10 GPD PER PERSON.
   DAILY FLOW 500 GPD
   FROM TABLE 8 APPLICATION RATE IS 1.5 GPD/ELA
   THEREFORE REQUIRED ELA = DESIGN FLOW / APPLICATION RATE = 500 GPD / 1.5 GPD/ELA = 334 SF ELA
   THERE IS ALSO A KITCHEN IN THE BUILDING. ADD 3 GPD PER PERSON = 50 PP X 3 GPD/PP = 150 GALLONS
   FROM TABLE 7 APPLICATION RATE IS 0.8 GPD/ELA
   THEREFORE REQUIRED ELA = DESIGN FLOW / APPLICATION RATE = 150 GPD / 0.8 GPD/ELA = 187.5 SF ELA
   TOTAL REQUIRED LEACHING AREA FOR DAYCARE CENTER IS 334 SF + 187.5 SF = 521.5 SF
   TOTAL DESIGN FLOW IS 500 GPD + 150 GPD = 650 GPD
2. ONE BEDROOM APARTMENT–SECOND FLOOR.
   DESIGN FLOW AND LEACHING AREA REQUIRED:
   MULTI–FAMILY APARTMENT, PER STATE CODE MINIMUM DESIGN IS A TWO BEDROOM APARTMENT.
   LEACHING AREA REQUIRED 375 SF.
   (SECTION V111, G, 1, TABLE 6)
   DESIGN FLOW IS 150 GALLONS.
3. BUILDING DESIGN
   TOTAL BUILDING LEACHING AREA REQUIRED IS 521.5 SF + 375 SF = 896.5 SF.= 897 SF
   TOTAL BUILDING DESIGN FLOW IS 650 GPD + 150 GPD = 800 GPD
4. SEPTIC TANK REQUIRED 1,250 GALLONS
   PUMP CHAMBER REQUIRED: THE PUMP CHAMBER SHALL PROVIDE EMERGENCY STORAGE OF AT LEAST 800 GALLONS.
5. MLSS:
   THE DEPTH TO THE RESTRICTIVE LAYER EXCEEDS 60"
   THEREFORE MLSS NEED NOT BE CONSIDERED.
   45 LINEAL FEET OF LEACHING SPREAD PROVIDED BY THE DESIGN
6. PROPOSED SYSTEM–90 LINEAL FEET OF GEOMATRIX GST 6212.
   EFFECTIVE LEACHING RATE IS 10.0 SF PER LF.
   LEACHING AREA PROVIDED IS 900 SF.
7. THIS SYSTEM IS NOT DESIGNED TO ACCEPT WASTES FROM GARBAGE DISPOSAL UNITS OR BACKWASH EFFLUENT FROM WATER SOFTENERS OR FILTERS AND/OR WHIRLPOOL TYPE BATHS IN EXCESS OF 100 GALLONS, OR BACKWASH FROM CENTRAL VACUUM SYSTEMS. TUBS EXCEEDING 100 GALLONS AND LESS THAN 200 GALLONS REQUIRES THE SEPTIC TANK CAPACITY TO BE INCREASED BY 250 GALLONS.

PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL LOCATE THE SANITARY LINE COMING OUT OF THE BUILDING AND CONTACT THE ENGINEER TO SHOOT ELEVATIONS.

SECTION AT X–X

HORIZONTAL SCALE 1"=10'
VERTICAL SCALE 1"=5'

PLAN NOTES

NOTE 1: PURPOSE

THE PURPOSE OF THIS PLAN IS TO OBTAIN APPROVAL TO INSTALL A SEPTIC SYSTEM.

SUBMITTAL TO AND APPROVAL BY OTHER AGENCIES OF THE TOWN MAY BE REQUIRED PRIOR TO OBTAINING A BUILDING PERMIT.

NOTE 2: SURVEY

ALL BASE SURVEY INFORMATION DIFITIZED FROM A PAPER COPY OF A PLAN PREPARED BY RYAN AND FAULDS, LAND SURVEYORS, WILTON, CT, PLAN TITLE "PROPERTY SURVEY, TOPOGRAPHIC SURVEY, FIDELCO GUIDE DOG FOUNDATION, INC, WILTON, CONNECTICUT, SCALE 1"=30', DECEMBER 4, 2013".

THIS IS NOT A CERTIFIED PLOT PLAN. THE PURPOSE OF THIS PLAN IS TO INDICATE THE PROPOSED LOCATION OF THE SEPTIC SYSTEM IN RELATION TO THE EXISTING STRUCTURE. NO OTHER USE IS EXPRESSED OR IMPLIED.

NOTE 3: SEPTIC TOPO

THE TOPOGRAPHIC INFORMATION SHOWN IN THE SEPTIC AREA IS FROM FIELD DATA BY PEAK ENGINEERS, LLC. THE TOPOGRAPHIC INFORMATION INDICATED HEREON IS FOR THE INVESTIGATION, EVALUATION, PLANNING AND DESIGN FOR THE PURPOSE OF PUBLIC HEALTH AND SAFETY AS DESCRIBED IN CHAPTER 391, SEC. 20–299, (1) OF THE GENERAL STATUTES OF CT VOL. 7 AND IS NOT PERFORMED TO ANY STATED ACCURACY.

NOTE 4: SEPTIC INFORMATION

LOCATION OF EXISTING SEPTIC DRYWELL IS FROM FIELD OBSERVATION. LOCATION OF SANITARY LINE IS FROM CARE–TAKER SYED REZA.

NOTE 5: OTHER INFORMATION

THIS PLAN DOES NOT DEPICT UNDERGROUND STRUCTURES, IF ANY EXIST, NOR DOES THI PLAN DEPICT EASEMENT, OR RESTRICTED AREAS.

FB
FB
FILE: SEPTIC PLAN.DWG
DRAWING # 200410
DWN BY: TS
DATE: April 10, 2020
REV: APRIL 17, 2020 add survey info, well, change to gst6212
REV: MAY 4, 2020 H.D. COMMENTS, DESIGN FLOW CALC., CHANGE TO 90 LF

Thomas S. Quinn, P.E. 17051
THIS PRINT IS INVALID WITHOUT LIVE RED SEAL AND EMBOSSED SEAL

Peak Engineers, LLC
PROVIDING CIVIL ENGINEERING SERVICES
Site, Septic, and Drainage, Feasibility and Design
16 Old Mill Road, Redding, CT 06896
Tel 203–834–0588 Email: TQuinn@PeakEngineersLLC.com

PREPARED FOR
Talbot House LLC
c/o Syed Reza
346 Main Avenue, Suite B
Norwalk, Connecticut 06851

PROJECT LOCATION
426 Danbury Road, Rear Building
Wilton, Connecticut 06897
Assessor's Map 47, Lot 1/3

TITLE
Building Remodel, Change In Use
Subsurface Sewage Disposal System Installation Plan

SI–1/2