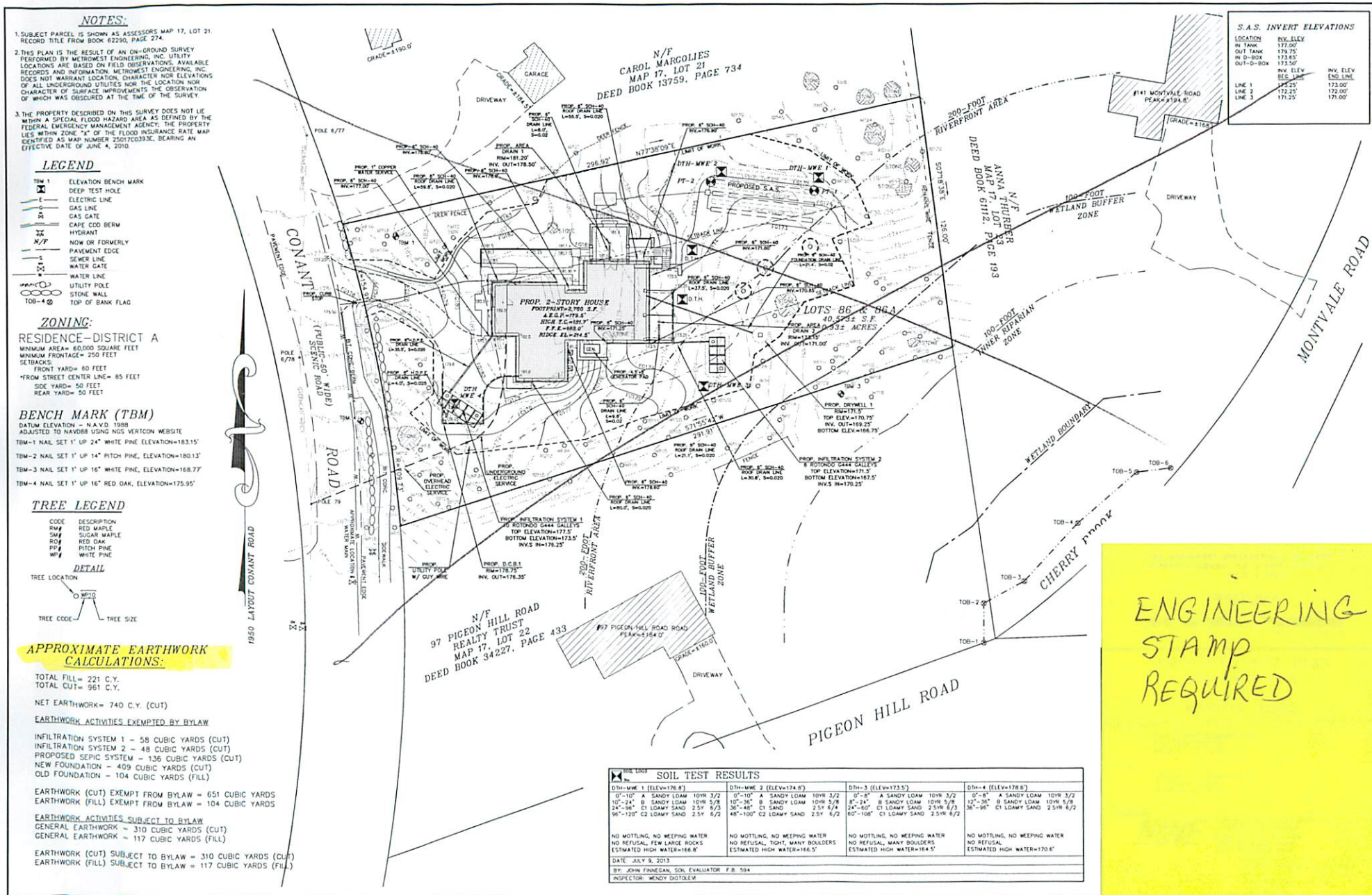


SAMPLE CALCS



S.A.S. INVERT ELEVATIONS

LOCATION	REV. ELEV.	INV. ELEV.
IN TANK	177.00'	
OUT TANK	176.75'	
IN 0-BOX	173.65'	
OUT-0-BOX	173.50'	
	BEG. LINE	INV. ELEV.
LINE 1	172.25'	173.50'
LINE 2	172.25'	172.00'
LINE 3	171.25'	171.00'

NOTES:

- SUBJECT PARCEL IS SHOWN AS ASSESSORS MAP 17, LOT 21. RECORD TITLE FROM BOOK 82290, PAGE 274.
- THIS PLAN IS THE RESULT OF AN ON-GROUND SURVEY PERFORMED BY METROWEST ENGINEERING, INC. UTILITY LOCATIONS ARE BASED ON FIELD OBSERVATIONS, AVAILABLE RECORDS AND INFORMATION. METROWEST ENGINEERING, INC. DOES NOT WARRANT LOCATION, CHARACTER NOR ELEVATIONS OF ALL UNDERGROUND UTILITIES NOR THE LOCATION NOR CHARACTER OF SURFACE IMPROVEMENTS THE OBSERVATION OF WHICH WAS OBTAINED AT THE TIME OF THE SURVEY.
- THE PROPERTY DESCRIBED ON THIS SURVEY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. THE PROPERTY LIES WITHIN ZONE "X" OF THE FLOOD INSURANCE RATE MAP IDENTIFIED AS MAP NUMBER 220700033C, BEARING AN EFFECTIVE DATE OF JUNE 4, 2010.

LEGEND

- TBM 1 ELEVATION BENCH MARK
- DEEP TEST HOLE
- E ELECTRIC LINE
- G GAS LINE
- S CARE COO BERM
- H HYDRANT
- N/F NOW OR FORMERLY
- P Pavement Edge
- S Sewer Line
- W Water Gate
- W Water Line
- U Utility Pole
- Stone Wall
- TOB-4 Top of Bank Flag

ZONING:
RESIDENCE-DISTRICT A

MINIMUM AREA= 60,000 SQUARE FEET
MINIMUM FRONTAGE= 250 FEET
SETBACKS:
FRONT YARD= 40 FEET
FROM STREET CENTER LINE= 85 FEET
SIDE YARD= 50 FEET
REAR YARD= 50 FEET

BENCH MARK (TBM)

DATUM ELEVATION - N.A.V.D. 1988
ADJUSTED TO NAVD88 USING NGS VERTCON MEBITE

- TBM-1 NAIL SET 1" UP 24" WHITE PINE, ELEVATION=183.15'
- TBM-2 NAIL SET 1" UP 14" PITCH PINE, ELEVATION=180.13'
- TBM-3 NAIL SET 1" UP 16" WHITE PINE, ELEVATION=168.77'
- TBM-4 NAIL SET 1" UP 16" RED OAK, ELEVATION=175.95'

TREE LEGEND

CODE	DESCRIPTION
RM	RED MAPLE
SM	SUGAR MAPLE
RO	RED OAK
PF	PITCH PINE
WP	WHITE PINE

DETAIL

TREE LOCATION: ○ (with code)

TREE CODE: ○ (with size)

APPROXIMATE EARTHWORK CALCULATIONS:

TOTAL FILL= 221 C.Y.
TOTAL CUT= 961 C.Y.

NET EARTHWORK= 740 C.Y. (CUT)

EARTHWORK ACTIVITIES EXEMPTED BY BYLAW

- INFILTRATION SYSTEM 1 - 58 CUBIC YARDS (CUT)
- INFILTRATION SYSTEM 2 - 48 CUBIC YARDS (CUT)
- PROPOSED SEPIC SYSTEM - 336 CUBIC YARDS (CUT)
- NEW FOUNDATION - 409 CUBIC YARDS (CUT)
- OLD FOUNDATION - 104 CUBIC YARDS (FILL)

EARTHWORK (CUT) EXEMPT FROM BYLAW = 651 CUBIC YARDS
EARTHWORK (FILL) EXEMPT FROM BYLAW = 104 CUBIC YARDS

EARTHWORK ACTIVITIES SUBJECT TO BYLAW

- GENERAL EARTHWORK = 310 CUBIC YARDS (CUT)
- GENERAL EARTHWORK = 117 CUBIC YARDS (FILL)

EARTHWORK (CUT) SUBJECT TO BYLAW = 310 CUBIC YARDS (CUT)
EARTHWORK (FILL) SUBJECT TO BYLAW = 117 CUBIC YARDS (FILL)

SOIL TEST RESULTS

TEST NO.	TEST RESULTS	TEST NO.	TEST RESULTS
Dth-MWE 1 (ELEV=176.8')	0'-10" A SANDY LOAM 10% 3/2 10'-24" B SANDY LOAM 10% 5/8 24'-36" C1 LOAMY SAND 2.5% 6/3 36'-100" C2 LOAMY SAND 2.5% 6/2	Dth-MWE 2 (ELEV=174.8')	0'-10" A SANDY LOAM 10% 3/2 10'-36" B SANDY LOAM 10% 5/8 36'-48" C1 SAND 2.5% 6/4 48'-100" C2 LOAMY SAND 2.5% 6/2
Dth-3 (ELEV=173.5')	0'-6" A SANDY LOAM 10% 3/2 6'-24" B SANDY LOAM 10% 5/8 24'-60" C1 LOAMY SAND 2.5% 6/3 60'-106" C1 LOAMY SAND 2.5% 6/2	Dth-4 (ELEV=178.6')	0'-6" A SANDY LOAM 10% 3/2 6'-36" B SANDY LOAM 10% 5/8 36'-96" C1 LOAMY SAND 2.5% 6/2

NO MOTTLING, NO WEeping WATER
NO REFUSAL, FEW LARGE ROCKS
ESTIMATED HIGH WATER=166.8'

NO MOTTLING, NO WEeping WATER
NO REFUSAL, MANY BOULDERS
ESTIMATED HIGH WATER=166.5'

NO MOTTLING, NO WEeping WATER
NO REFUSAL, MANY BOULDERS
ESTIMATED HIGH WATER=164.5'

NO MOTTLING, NO WEeping WATER
NO REFUSAL
ESTIMATED HIGH WATER=170.6'

DATE: JULY 9, 2013
BY: JOHN FINEGAN, SOIL EVALUATOR, F.S. 584
INSPECTOR: WENDY DOTLEV

ENGINEERING
STAMP
REQUIRED