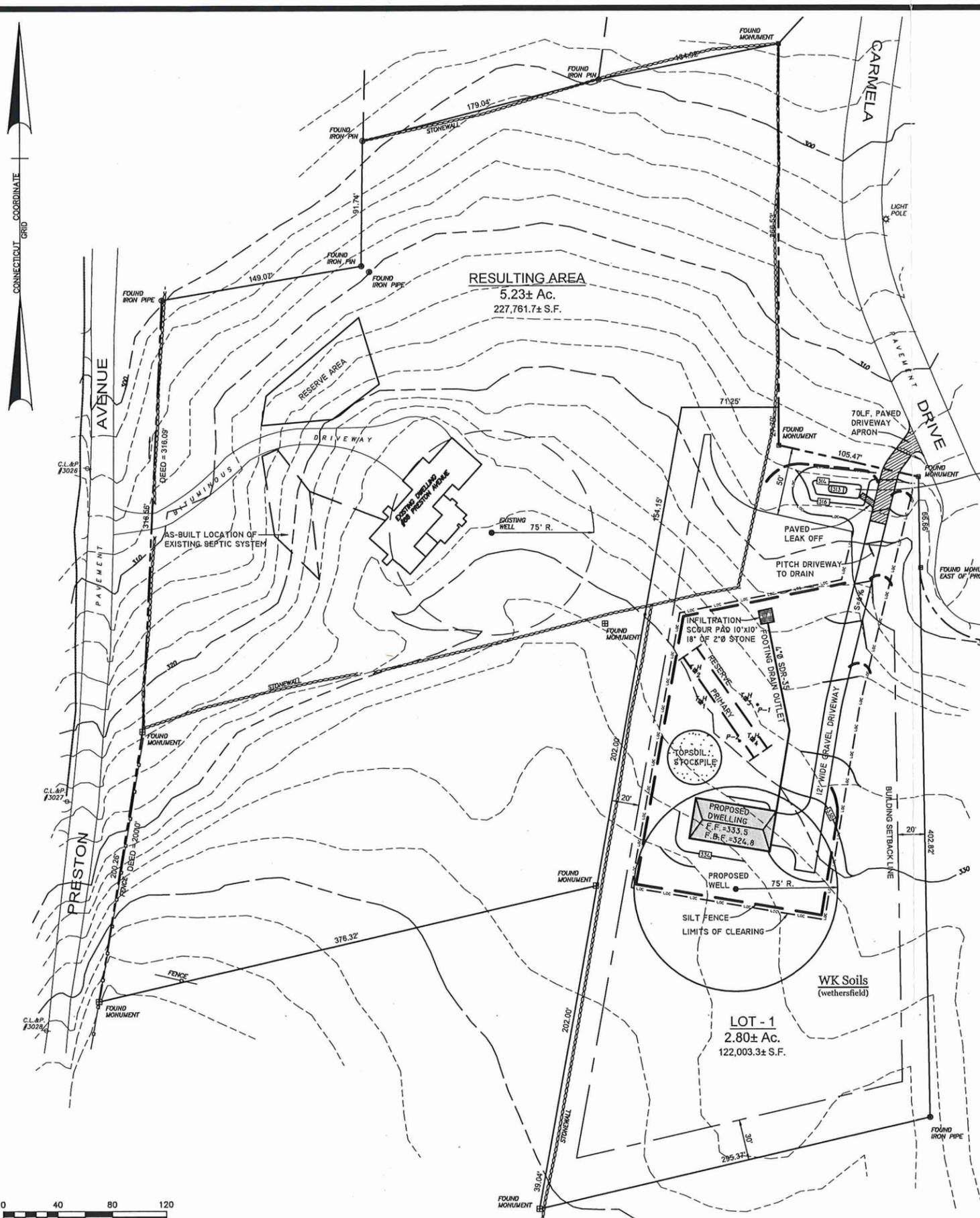


CONNECTICUT GRID COORDINATE



PERCOLATION TEST

PERFORMED BY: BASCOM & BENJAMIN, LLC
6.25.20

PERC TEST-1, DEPTH=18"
12" PRE-SOAK

| TIME | READING(in) | RATE(min/in) |
|-------|-------------|--------------|
| 12:24 | 5 | 5.0 |
| 12:35 | 5 | 5.0 |
| 12:45 | 8.75 | 2.7 |
| 1:05 | 10.5 | 16 |
| 1:15 | 11.25 | 13.3 |
| 1:25 | 11.75 | 20 |
| 1:35 | 12.125 | 28.7 |

PERC TEST-2, DEPTH=18.5"
12" PRE-SOAK

| TIME | READING(in) | RATE(min/in) |
|-------|-------------|--------------|
| 12:37 | 2 | 2.6 |
| 12:47 | 7.75 | 5.0 |
| 12:57 | 8.75 | 10 |
| 1:07 | 9.375 | 16 |
| 1:17 | 10.125 | 13.3 |
| 1:27 | 10.5 | 28.7 |
| 1:37 | 11 | 20 |

TEST HOLE DATA

PERFORMED BY: BASCOM & BENJAMIN, LLC
WITNESSED BY: VINCENT MAZZOTTA R.S.
7.7.20

TH-1
0-10" TOPSOIL
10-18" FIRM LIGHT BROWN SILTY LOAM
19-36" LIGHT BROWN COMPACT BONY SILT
NO GROUNDWATER OR MOTTLING, LEDGE AT 36" NORTH & 60" SOUTH

TH-2
0-10" TOPSOIL
10-20" FIRM LIGHT BROWN SILTY LOAM
20-78" BROWN COMPACT BONY SILT WITH FINE SAND
ROOTS TO 24", LEDGE AT 78", NO WATER OR MOTTLING.

TH-3
0-10" TOPSOIL
10-21" FIRM LIGHT BROWN SILTY LOAM
21-40" BROWN COMPACT BONY SILT WITH FINE SAND AND GRAVEL
ROOTS TO 31", NO WATER, LEDGE OR MOTTLING.

TH-4
0-12" TOPSOIL
12-24" FIRM LIGHT BROWN SILTY LOAM
24-67" BROWN COMPACT BONY SILT WITH FINE SAND
ROOTS TO 37", LEDGE AT 67", NO WATER OR MOTTLING.

BASIS OF SANITARY DESIGN LOT - 1

NO. OF BEDROOMS : 4
DESIGN PERC RATE 20-1-30 MIN/INCH
REQUIRED EFFECTIVE LEACHING AREA : 875 SF
USE : 90 LF OF GST 6212
@ 10.0 SF/LF = 900 SF

RL = 19, S = 6.3%, HF = 34, PF = 1.5, F.F. = 1.75
MLSS = 34 x 1.75 x 1.5 = 89.25 LF

EROSION AND SEDIMENT CONTROL NOTE

- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE STATE OF CONN. "GUIDELINES FOR SEDIMENT AND EROSION CONTROL" 2002 EDITION.
- LAND DISTURBANCES SHALL BE KEPT AT A MINIMUM AND LAND RESTABILIZATION SCHEDULED AS SOON AS PRACTICABLE.
- ALL CONTROL MEASURES SHALL BE PROPERLY MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL PERMANENT VEGETATION COVER HAS BEEN ESTABLISHED.
- HAY BALE FILTERS OR FABRIC FENCE SHALL BE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES.
- AFTER CONSTRUCTION IS COMPLETED, TOPSOIL SHALL BE EVENLY DISTRIBUTED OVER THE DISTURBED AREA, PROPERLY TREATED, AND SEEDED.
- GRADING SHALL NOT BE DONE IN SUCH A MANNER SO AS TO DIVERT WATER ONTO THE PROPERTY OF ANOTHER LANDOWNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF THAT LANDOWNER AND THE COMMISSION.
- ADDITION EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY OR REQUIRED BY THE TOWN ENGINEER.

GENERAL SITE DEVELOPMENT NOTES

- Existing topography from Town wide aerial mapping.
- Elevation datum is approximate U.S.C. & G.S. NGVD 1929.
- Test pits and percolation tests were conducted in June of 2020 by the Middletown Health Department. Test hole locations as shown were field located on and related to the boundaries as shown by Bascom & Benjamin, LLC.
- House, well and sewage disposal systems shown on this plan were positioned to account for lot to lot relationships so that minimum setback and separation distance requirements contained in local zoning, subdivision and state public health regulations are maintained. While there are alternate layouts which are possible, developers of individual lots are hereby warned that variations from this plan must meet setback and separation distance requirements contained in local zoning, subdivision and state public health code regulations. It is also important to note that due to the aforementioned requirements, the layout of lots are interrelated such that changes on one could adversely affect the layout of surrounding lots. Therefore, any changes in the location of the house, well and sewage disposal systems shown on the approved site plan drawings, that are deemed significant by the Town Sanitarian, shall be referred back to the Zoning Department for review.
- Residential structures should be oriented so as to take advantage of passive solar energy. While variations in orientation are permitted within the guidelines outlined in note #5 above, developers are encouraged to orient houses so as to take advantage of passive solar energy opportunities.
- All grades adjacent to fill shall be blended so as to prevent ponding.
- Driveways shall have a minimum curb radius of five (5) feet. All driveways shall have a maximum grade of fifteen (15) percent and shall be constructed of a minimum of eight (8) inches of gravel. All driveways that exceed a ten (10) percent grade shall be surfaced with a minimum of one and one half (1 1/2) inches, compacted depth, of bituminous concrete. All driveway aprons within ten (10) feet of the road curb line on paved roads shall be paved. The entrance to the driveway should slope up from the gutter six (6) inches to prevent roadway surface drainage from entering the property.
- Low water consumption plumbing fixtures, including 1.6 gal/flush toilets, should be used in all dwellings in this subdivision.
- Utility lines should be located underground as per the Subdivision regulations.
- For locations of underground electric, telephone, gas, cable television, or other utilities, inquire at the appropriate utility company and contact CALL BEFORE YOU DIG at 1-800-922-4455. The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated on the plans. The contractor shall confirm the location of all underground utilities prior to the commencement of excavation.
- Driveways and drain outlets shall be designed and constructed to prevent icing conditions on the Town Road.
- All permanent boundary markers shall be in place prior to the issuance of a building permit.
- Prior to the issuance of any construction permits a construction entrance shall be installed per the approved plans.
- Foundation drains shall not discharge into sanitary sewer laterals or mains.
- Existing trees should be preserved along the frontage of each lot where feasible or new trees are required to be planted for every 50 feet per the subdivision regulations. Two 2.5" caliper trees are required for each front yard.
- No blasting will be required for this subdivision.
- This lot is served by on site wells and septic system.
- The existing septic system as shown is from an as-built provided by the owner.
- The applicant and owner is Roger and Marylou Spurr, 88 Preston Ave, Middletown, CT 06457

LOT CONSTRUCTION SEQUENCE

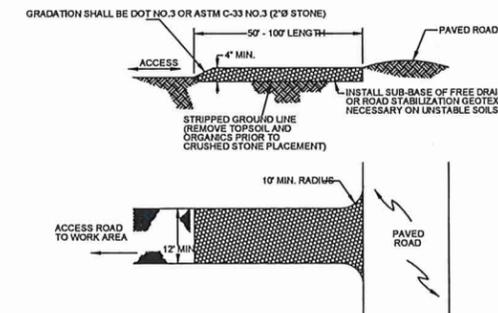
- INSTALL TEMPORARY DRIVEWAY CONSTRUCTION ENTRANCE.
- FLAG LIMITS OF CLEARING PER THE APPROVED PLAN. LIMITS OF CLEARING TO BE FLAGGED BY SURVEYOR OF RECORD.
- CUT TREES WITHIN LIMITS OF CLEARING.
- PLACE HAY BALES AND SILT FENCE EROSION CONTROLS FOR ENTIRE WORK AREA.
- STUMP WORK AREA, CUT AND FILL DRIVEWAY GRADE, AND STABILIZE EMBANKMENTS WITH TEMPORARY SEEDING AND MULCHING OF DISTURBED AREAS.
- STRIP TOPSOIL AND STOCKPILE.
- CONSTRUCT HOUSE, RELATED DRAINAGE AND WATER AND SEWER FACILITIES.
- PREPARE FINAL GRADING AND SEEDING OF ALL DISTURBED AREAS.
- EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.

LOT - 1, RESIDENTIAL DETENTION / SEDIMENTATION BASIN DESIGN

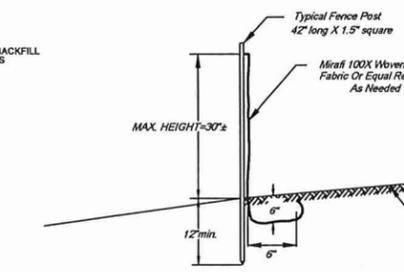
DRIVEWAY AREA = 332' x 12' = 3,984 S.F.
USE 2" OF RAINFALL: VOL = (3,984 SF) / (2.12) = 664 C.F. REQUIRED

BASIN VOLUME:
A13 = 50 S.F.
A14 = 280 S.F.
A16 = 748 S.F.

V13-14 = $\frac{(50+280)}{2}$ 1' = 165 C.F.
V14-16 = $\frac{(280+748)}{2}$ 2' = 1,308 C.F.
PROPOSED BASIN VOLUME = 1,473 C.F. > 664 C.F.



CONSTRUCTION ENTRANCE DETAIL
N.T.S.



SEDIMENT FILTER FENCE
N.T.S.



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REVISIONS

| NO. | DESCRIPTION | BY | DATE |
|-----|--------------|------|---------|
| 1 | STAFF REVIEW | P.B. | 9-15-20 |

#88 PRESTON AVENUE
MIDDLETOWN, CT.

PROPERTY OF:
ROGER & MARY LOU SPURR

DESIGNED BY:
P.M.B.

DRAWN BY:
S.M.S.

CHECKED BY:
P.M.B.

APPROVED BY:

BASCOM & BENJAMIN, LLC
SURVEYING and ENGINEERING CONSULTANTS
300 MAIN STREET DURHAM, CONN
TEL. (860) 348 - 1878

PROJECT NO.
1107-01

SHEET NO.
2 OF 2

SCALE:
1"=40'

DATE:
7-16-2020

DEPT. PLANNING & ZONING
 20 SEP 16 PM 2:29
 S 200803 Revised