

To Whom It May Concern:

The following information should be updated in my current application.

Thank you,

Bob Gigliotti (owner)

Data and information are as follows:

**Detailed description of proposed work (Updated)**

I would like to add an entry way to the front of my house and a deck behind the house. The entry way is a 16 Square feet dimension unheated area with a stairway that will have a 12 square feet dimension. The deck dimensions will be 180 Square feet with a stairway dimension of 6 square feet.

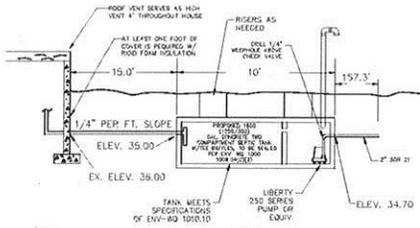
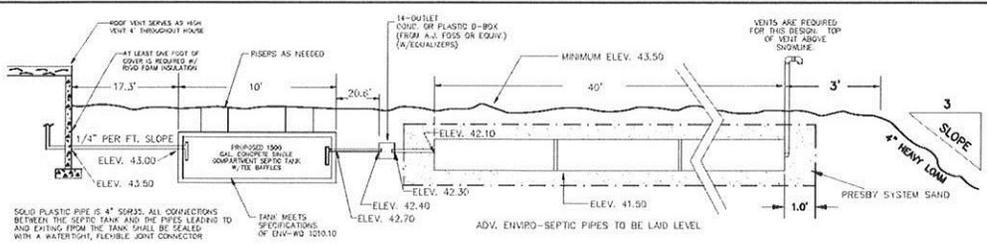
In addition, I want to place a tank in the location of the current septic system and piping that is within the wetland buffer zone. The tank and pipes are part of a new septic system and additional house that will be situated outside of the wetland buffer zone. The tank will be 56 Square feet and the inground pipes will be 40 Square feet within the wetland buffer zone.

All disturbed area is over 100 feet from the prime wetland designated area.

The updated data below is the wetland area present on my property and abutting my property including the creek on the west side to the southern point of abutting parcel and a small area on the east side of my property located at 314 Lang Rd.

Area of disturbance in wetland or wetland buffer (Sq.Ft.)	310 Square Feet
Total area of wetland on and off Property (Sq. Ft)	147,375 Square Feet
Total Area of Vernal Pool (both on and off the parcel) (Sq.Ft.)	0 Square Feet
Distance of proposed structure or activity to edge of wetland (Sq.Ft.):	30 Feet
Wetland Buffer Total Area on lot (Sq.Ft.):	49,500 Square Feet
Wetland buffer to be disturbed (Sq.Ft.):	310 Square Feet
Inland wetland on Lot (Sq.Ft.):	6,975 Square Feet
Inland Wetland to be disturbed (Sq.Ft.):	0 Square Feet
Vernal Total area on Lot (Sq.Ft.):	0 Square Feet

Total Vernal area to be disturbed (Sq.Ft.):	0 Square Feet
Tidal Wetland area on lot (Sq.Ft.):	0 Square Feet
Tidal wetland to be disturbed (Sq.Ft.):	0 Square Feet



**PROFILE OF SEPTIC SYSTEM**

**PUMP DATA :**  
 BRAND : LIBERTY SERIES 230, (FROM A.J. FOSS) OR EQUIV.  
 PIPE SIZE : 2"  
 RATE : 30 GAL/MINUTE  
 4 MINUTE PUMP CYCLES @ 120 GAL/CYCLE  
 2.50 CILES PER DAY  
 PUMP OFF ELEV. 36.80  
 PUMP ON ELEV. 32.25  
 ALARM ON ELEV. 25.49  
 THE PUMP WILL BE EQUIPPED WITH AN ALARM SYSTEM THE ALARM SYSTEM AND PUMP WILL BE ON SEPARATE ELECTRICAL CIRCUITS  
 THE PUMP CHAMBER WILL BE VENTED AND WATER-TIGHT

**LOT LOADINGS:**  
 GROUP 3 SOIL 0-8% SLOPE = 54,186 Sq. Ft. = 1.24 AC.  
 GROUP 6 SOIL = 13,823 Sq. Ft. = 0.31 AC.  
 $Q = (1.24AL \times 2000 \text{ GPD/AC}) / 1.60 \text{ FACTOR} = 1,550 \text{ GPD}$   
 TOTAL GPD = 1,550 GPD

**NOTES :**  
 THE WETLAND DELINEATION WAS COMPLETED AUGUST, 2020 BY ACCORDANCE WITH THE 1987 CONCEPT OF ENGINEERS WETLAND DELINEATION MANUAL. JURISDICTIONAL WETLANDS WERE IDENTIFIED AND DELINEATED USING THE POSITIVE IDENTIFICATION METHOD AS OUTLINED IN THE MANUAL. THE DELINEATION WAS DONE BY: JOSEPH N. BERRY, NDES SUBSURFACE SYSTEMS DESIGNER #1982

**TESTHOLE DATA :**  
 TEST #11  
 0'-0" 10%R/3, FINE SANDY LOAM, GRANULAR, FRABLE  
 0.9'-2.0' 10%R/3, FINE SANDY LOAM, GRANULAR, FRABLE, COH & PEP @ 2.0'  
 2.0'-4.5' 2.5%S/3, FINE SANDY LOAM, GRANULAR, FRABLE  
 E.S.W.T. @ 2.0'  
 GROUND WATER @ N/A  
 NO METALS

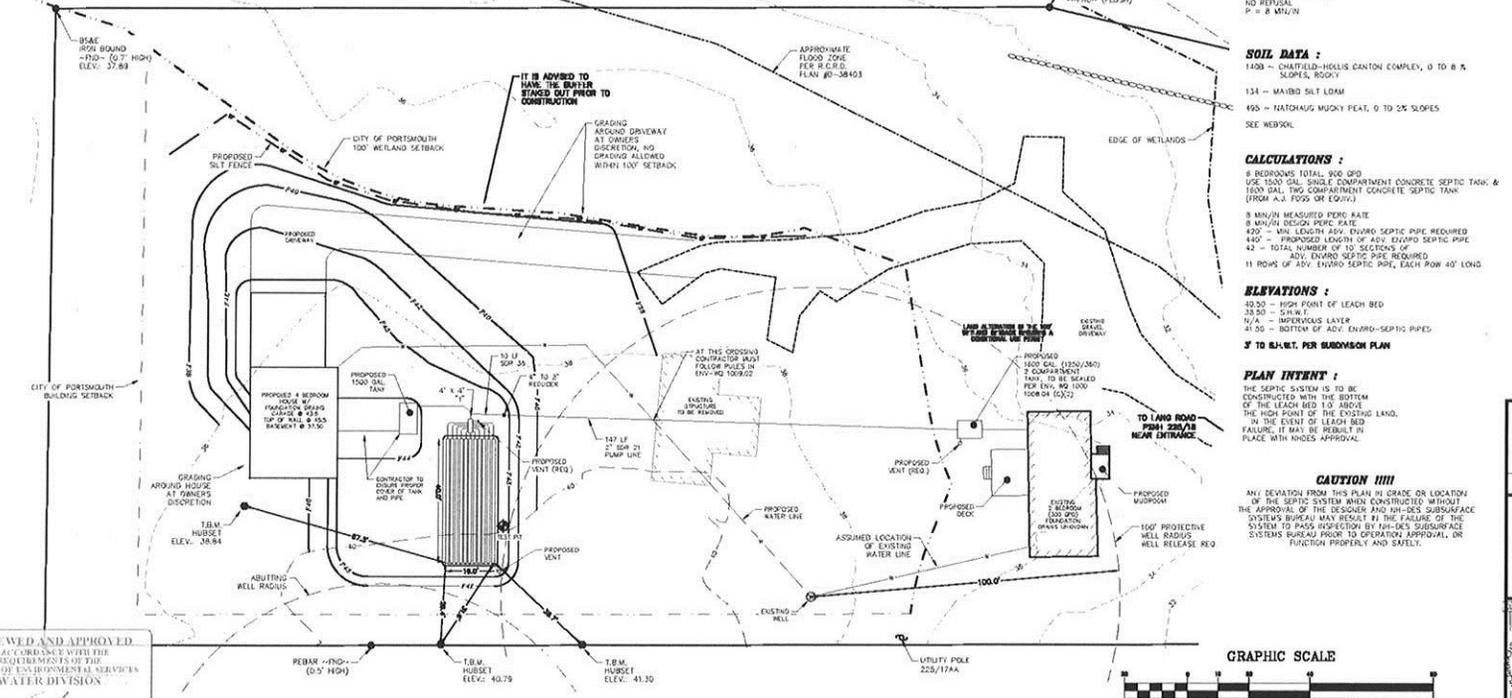
**SOIL DATA :**  
 1100 - CHATFIELD-HOLLIS CANTON COMPLEX, 0 TO 8% SLOPES, ROCKY  
 134 - MAIBO SALT LOAM  
 495 - NATHAN'S MUCKY FEAT, 0 TO 2% SLOPES  
 SEE WBS03L

**CALCULATIONS :**  
 6 BEDROOMS TOTAL, 900 GPD  
 USE 1500 GAL. SINGLE COMPARTMENT CONCRETE SEPTIC TANK & 1500 GAL. TWO COMPARTMENT CONCRETE SEPTIC TANK (FROM A.J. FOSS OR EQUIV.)  
 8 MIN./H MEASURED PERC. RATE  
 420' - MIN. LENGTH ADV. ENVIRO SEPTIC PIPE REQUIRED  
 440' - PROPOSED LENGTH OF ADV. ENVIRO SEPTIC PIPE  
 42 - TOTAL NUMBER OF 10' SECTIONS OF ADV. ENVIRO SEPTIC PIPE REQUIRED  
 11 ROWS OF ADV. ENVIRO SEPTIC PIPE, EACH ROW 40' LONG

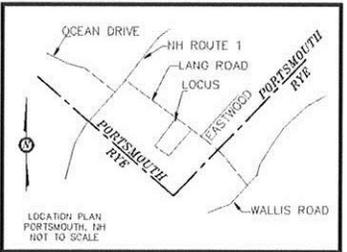
**ELEVATIONS :**  
 43.50 - HIGH POINT OF LEACH BED  
 35.50 - 5" H.W.P.  
 N/A - IMPERVIOUS LAYER  
 41.50 - BOTTOM OF ADV. ENVIRO-SEPTIC PIPES  
**3" TO 5" W.T. PER SUBDIVISION PLAN**

**PLAN INTENT :**  
 THE SEPTIC SYSTEM IS TO BE CONSTRUCTED WITH THE BOTTOM OF THE LEACH BED 10' ABOVE THE HIGH POINT OF THE EXISTING LAND. IN THE EVENT OF LEACH BED FAILING, IT MAY BE REBUILT IN PLACE WITH NDES APPROVAL.

**CAUTION !!!!**  
 ANY DEVIATION FROM THIS PLAN IN GRADE OR LOCATION OF THE SEPTIC SYSTEM WHEN CONSTRUCTED WITHOUT THE APPROVAL OF THE DESIGNER AND OR-NDES SUBSURFACE SYSTEMS BUREAU MAY RESULT IN THE FAILURE OF THE SYSTEM TO PASS INSPECTION BY NDES'S SUBSURFACE SYSTEMS BUREAU PRIOR TO OPERATION APPROVAL, OR OPERATION PROPERLY AND SAFELY.



- NOTES:**
- 1) OWNER: ROBERT GIOIOTTI 292 LANG ROAD PORTSMOUTH, NH 03801
  - 2) DESIGNER: JOSEPH N. BERRY, PERMIT #1982 335 SECOND CROWN POINT ROAD BARRINGTON, NH 03825
  - 3) TAX MAP 287, LOT 4
  - 4) LOT AREA 87819 Sq. Ft., 2.02 AC ±
  - 5) E.C.R.D. BOOK 4025, PAGE 1210
  - 6) SUBDIVISION STATUS: SBAS21401045
  - 7) FOUNDATION SPACINGS WILL START AT LEAST 12" FROM THE LEACH FIELD, AND AT LEAST 5" FROM THE SEPTIC TANK.
  - 8) THERE IS NO SURFACE WATER OR VERY POORLY DRAINED SOILS WITHIN 25' OF PROPOSED LEACH BEDS WITHIN 50' OF THE PROPOSED SEPTIC SYSTEM.
  - 9) THIS DESIGN DOES NOT ALLOW FOR THE ACCEPTANCE OF WATER TREATMENT AND WASH 2" A WATER TREATMENT SYSTEM IS TO BE INCORPORATED A LARGER LEACHFIELD WILL BE REQUIRED.
  - 10) THIS DESIGN DOES NOT ALLOW FOR THE ACCEPTANCE OF WATER TREATMENT AND WASH 2" A WATER TREATMENT SYSTEM IS TO BE INCORPORATED A LARGER LEACHFIELD WILL BE REQUIRED.
  - 11) IN THE EVENT A DISCREPANCY IS FOUND ON THIS PLAN, THE DESIGNER SHOULD BE CONTACTED IMMEDIATELY AT 603-332-2863 TO DISCUSS AN APPROPRIATE PLAN OF ACTION.
  - 12) THIS IS NOT A BOUNDARY SURVEY.
  - 13) THERE IS NO KNOWN BURIAL SITE OR CENTERLINE ON THE LOT WITHIN 100' OF ANY COMPARTMENT OF THE ISSS.



REVISION	DATE	DESCRIPTION

PROPOSED SEPTIC DESIGN FOR ROBERT GIOIOTTI 292 LANG ROAD PORTSMOUTH, N.H. TAX MAP 287, LOT 4

**BERRY SURVEYING & ENGINEERING**  
 335 SECOND CROWN POINT RD. BARRINGTON, N.H. 03825  
 SCALE : 1 IN. EQUALS 20 FT.  
 DATE : SEPTEMBER 4, 2020  
 FILE NO. : DB 2018-161

Designer: Robert Gioiotti  
 Clubhouse Professional Seal  
 Joseph N. Berry  
 No. 1882  
 State of New Hampshire

REVIEWED AND APPROVED:  
 IN ACCORDANCE WITH THE REQUIRED METERS OF THE SURFACE ENGINEERING PROFESSIONAL SERVICES WATER DIVISION  
 Eric Thomas  
 Date: 10/4/2020  
 #ecA2020108621



# Natural Resource Consulting Services

December 27, 2019

Mr. Robert Gigliotti  
292 Lang Road  
Portsmouth, NH 03801

RE: Gigliotti Parcel and House, 292 Lang Road, Portsmouth, NH

Dear Mr. Gigliotti:

Thank you for meeting with me at the above-referenced site on December 26, 2019. The purpose of my visit was to determine whether or not the edge-of-wetland delineation done by myself on the property in September 2013 had changed in any way. I did the earlier wetland survey for Berry Engineering for the [then] possible subdivision of the larger Ertugrul Yurtseven parcel. That subdivision occurred and you subsequently purchased the northeasterly most lot in the subdivision. Your parcel contains a house, barn and manufactured home, all in need of modernization.

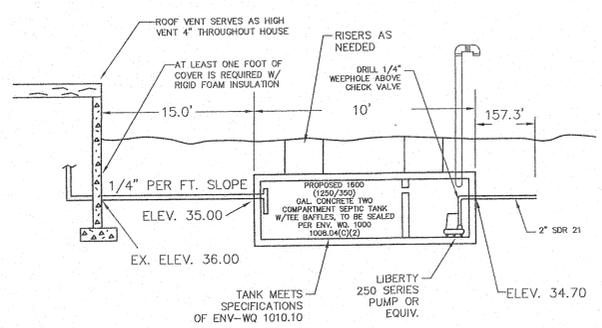
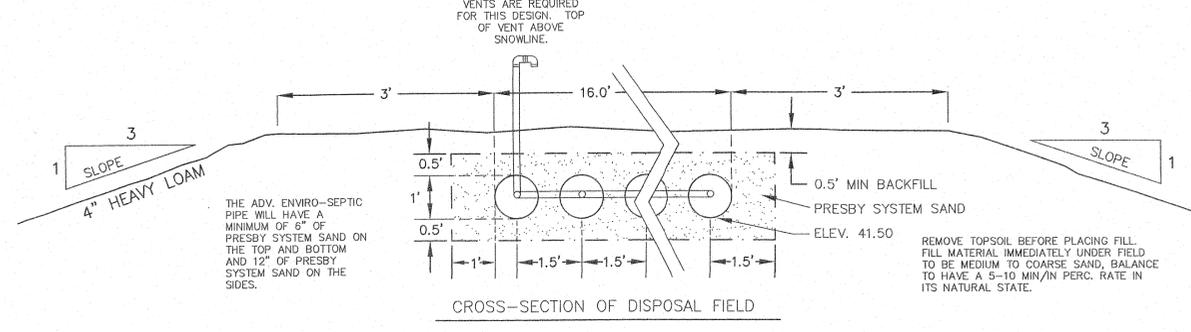
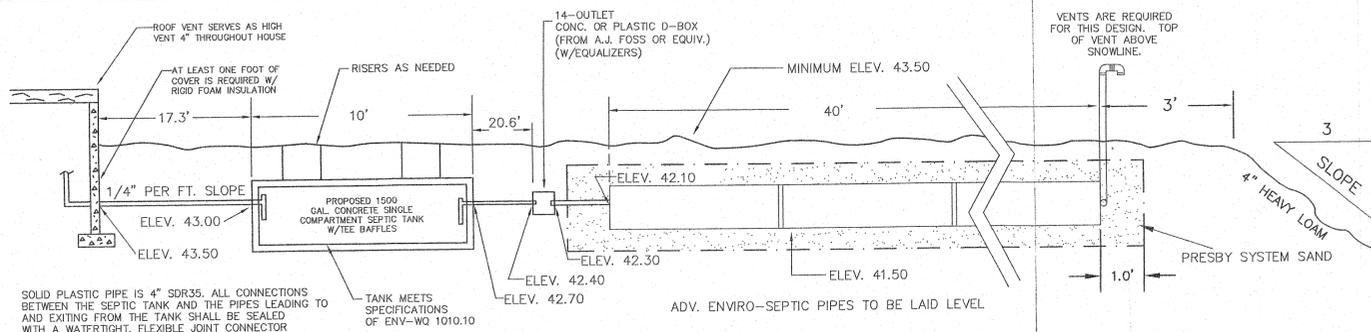
I carefully examined the former edge-of-wetland jurisdictional line and the present on-the-ground wetland/upland boundary. There are no significant changes in the 2013 line as illustrated in the Berry Engineering Topographic Plan for the proposed subdivision of lands of Ertugrul Yurtseven, Tax Map 287, Lot 4 dated Oct 25, 2013 with four revisions dating to 02-18-17.

Please contact me with any questions. Thanking you in advance for your consideration, I remain,

Very truly yours,



Peter W. Spear  
Certified Wildlife Biologist (The Wildlife Society)  
Professional Development Certificate (The Wildlife Society)  
Professional Wetland Scientist (Society of Wetland Scientist)  
Certified Environmental Professional (National Association of Environmental Professionals)  
Certified in Habitat Evaluation Procedures (US Fish and Wildlife Service)  
NH Certified Wetland Scientist #103



**PROFILE OF SEPTIC SYSTEM**

**PUMP DATA :**  
 BRAND : LIBERTY SERIES 250, (FROM A.J. FOSS) OR EQUIV.  
 PIPE SIZE : 2"  
 RATE : 30 GAL/MINUTE  
 4 MINUTE PUMP CYCLES @ 120 GAL/CYCLE  
 2.50 CYLES PER DAY  
 PUMP OFF ELEV. 30.87  
 PUMP ON ELEV. 32.29  
 ALARM ON ELEV. 32.49  
 THE PUMP WILL BE EQUIPPED WITH AN ALARM SYSTEM  
 THE ALARM SYSTEM AND PUMP WILL BE ON SEPARATE ELECTRICAL CIRCUITS  
 THE PUMP CHAMBER WILL BE VENTED AND WATER-TIGHT

**LOT LOADING:**  
 GROUP 3 SOIL 0-8% SLOPE = 54,196 Sq. Ft. = 1.24 Ac.  
 GROUP 6 SOIL = 13,523 Sq. Ft. = 0.31 Ac.  
 $Q = (1.24Ac. \times 2000 GPD/Ac.) / 1.60 \text{ FACTOR} = 1,550 GPD$   
 TOTAL GPD = 1,550 GPD

**WETNOTE :**  
 THE WETLAND DELINEATION WAS COMPLETED AUGUST, 2020 IN ACCORDANCE WITH THE 1987 CORP. OF ENGINEERS WETLAND DELINEATION MANUAL. JURISDICTIONAL WETLANDS WERE IDENTIFIED AND DELINEATED USING THE ROUTINE DETERMINATIONS METHOD AS OUTLINED IN THE MANUAL. THE DELINEATION WAS DONE BY: JOSEPH N. BERRY, NHDES SUBSURFACE SYSTEMS DESIGNER #1882

**TESTHOLE DATA :**

TEST PIT

0-0.9' 10YR4/3, FINE SANDY LOAM, GRANULAR, FRIABLE

0.9-2.0' 10YR4/6, FINE SANDY LOAM, GRANULAR, FRIABLE, CON & DEP. @ 2.0'

2.0-4.5' 2.5Y5/3, FINE SANDY LOAM, GRANULAR, FRIABLE

E.S.H.W.T. @ 2.0'  
 GROUND WATER @ N/A  
 NO REFUSAL  
 $P = 8 \text{ MIN/IN}$

**SOIL DATA :**

140B ~ CHATFIELD-HOLLIS CANTON COMPLEX, 0 TO 8% SLOPES, ROCKY

134 ~ MAYBID SILT LOAM

495 ~ NATCHAUG MUCKY PEAT, 0 TO 2% SLOPES  
 SEE WEBSOIL

**CALCULATIONS :**

6 BEDROOMS TOTAL, 900 GPD  
 USE 1500 GAL. SINGLE COMPARTMENT CONCRETE SEPTIC TANK & 1600 GAL. TWO COMPARTMENT CONCRETE SEPTIC TANK (FROM A.J. FOSS OR EQUIV.)

8 MIN/IN MEASURED PERC RATE  
 8 MIN/IN DESIGN PERC RATE  
 420' - MIN. LENGTH ADV. ENVIRO SEPTIC PIPE REQUIRED  
 440' - PROPOSED LENGTH OF ADV. ENVIRO SEPTIC PIPE  
 42 - TOTAL NUMBER OF 10' SECTIONS OF ADV. ENVIRO SEPTIC PIPE REQUIRED  
 11 ROWS OF ADV. ENVIRO SEPTIC PIPE, EACH ROW 40' LONG

**ELEVATIONS :**

40.50 - HIGH POINT OF LEACH BED  
 38.50 - S.H.W.T.  
 N/A - IMPERVIOUS LAYER  
 41.50 - BOTTOM OF ADV. ENVIRO-SEPTIC PIPES

3' TO S.H.W.T. PER SUBDIVISION PLAN

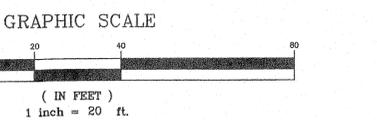
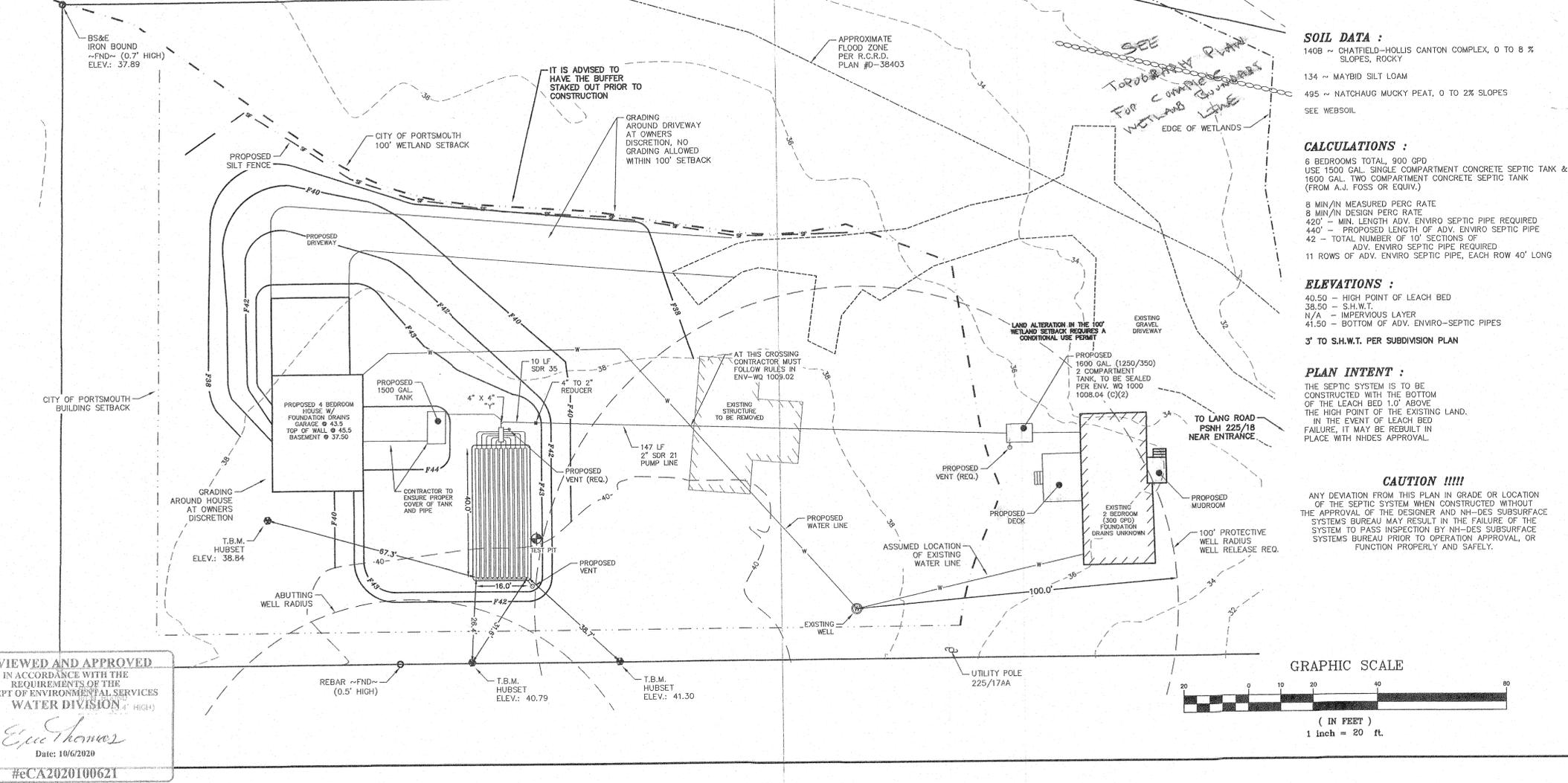
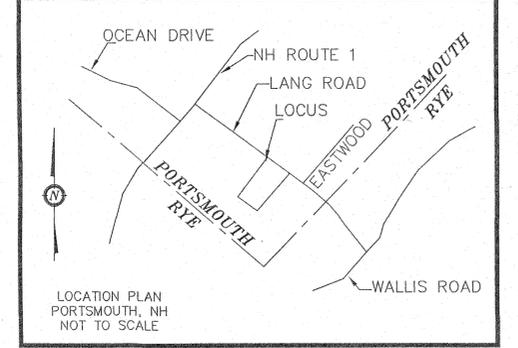
**PLAN INTENT :**

THE SEPTIC SYSTEM IS TO BE CONSTRUCTED WITH THE BOTTOM OF THE LEACH BED 1.0' ABOVE THE HIGH POINT OF THE EXISTING LAND. IN THE EVENT OF LEACH BED FAILURE, IT MAY BE REBUILT IN PLACE WITH NHDES APPROVAL.

**CAUTION !!!!!**

ANY DEVIATION FROM THIS PLAN IN GRADE OR LOCATION OF THE SEPTIC SYSTEM WHEN CONSTRUCTED WITHOUT THE APPROVAL OF THE DESIGNER AND NH-DES SUBSURFACE SYSTEMS BUREAU MAY RESULT IN THE FAILURE OF THE SYSTEM TO PASS INSPECTION BY NH-DES SUBSURFACE SYSTEMS BUREAU PRIOR TO OPERATION APPROVAL, OR FUNCTION PROPERLY AND SAFELY.

- NOTES:**
- 1.) OWNER: ROBERT GIGLIOTTI  
292 LANG ROAD  
PORTSMOUTH, NH 03801
  - 2.) DESIGNER: JOSEPH N. BERRY, PERMIT #1882  
335 SECOND CROWN POINT ROAD  
BARRINGTON, NH 03825
  - 3.) TAX MAP 287, LOT 4
  - 4.) LOT AREA: 87,819 Sq. Ft., 2.02 Ac.±
  - 5.) R.C.R.D. BOOK 6025, PAGE 1210
  - 6.) SUBDIVISION STATUS: eSA201401045
  - 7.) FOUNDATION DRAINS WILL START AT LEAST 15' FROM THE LEACH FIELD, AND AT LEAST 5' FROM THE SEPTIC TANK.
  - 8.) THERE IS NO SURFACE WATER OR VERY POORLY DRAINED SOILS WITHIN 75', OR POORLY DRAINED SOILS WITHIN 50' OF THE PROPOSED SEPTIC SYSTEM.
  - 9.) THIS DESIGN DOES NOT ALLOW FOR THE USE OF A GARBAGE GRINDER. IF A GRINDER IS TO BE INCORPORATED A LARGER SEPTIC TANK WILL BE REQUIRED.
  - 10.) THIS DESIGN DOES NOT ALLOW FOR THE ACCEPTANCE OF WATER TREATMENT BACKWASH. IF A WATER TREATMENT SYSTEM IS TO BE INCORPORATED A LARGER LEACHFIELD WILL BE REQUIRED.
  - 11.) IN THE EVENT A DISCREPANCY IS FOUND ON THIS PLAN, THE DESIGNER SHOULD BE CONTACTED IMMEDIATELY AT 603-332-2863 TO DISCUSS AN APPROPRIATE PLAN OF ACTION.
  - 12.) THIS IS NOT A BOUNDARY SURVEY.
  - 13.) THERE IS NO KNOWN BURIAL SITE OR CEMETERY ON THE LOT WITHIN 100' OF ANY COMPONENT OF THE ISDS.



REVIEWED AND APPROVED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT. OF ENVIRONMENTAL SERVICES WATER DIVISION

*Eric Thomas*

Date: 10/6/2020

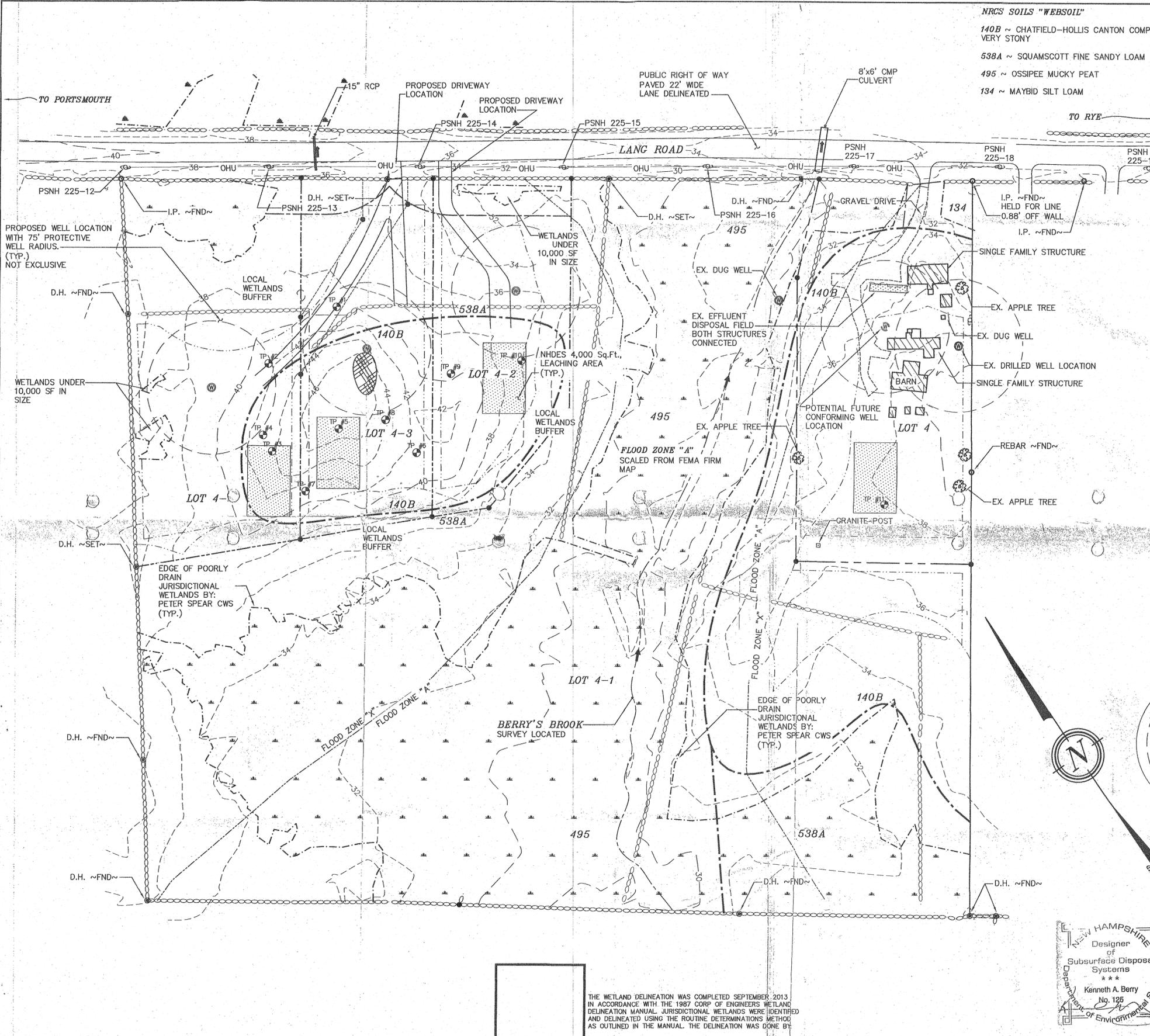
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REVISION	DATE	DESCRIPTION
		PROPOSED SEPTIC DESIGN FOR ROBERT GIGLIOTTI 292 LANG ROAD PORTSMOUTH, N.H. TAX MAP 287, LOT 4

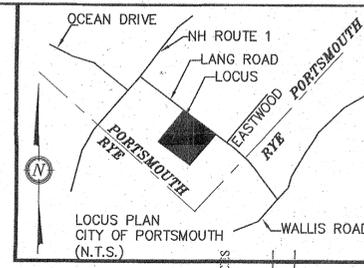
NEW HAMPSHIRE Designer of Subsurface Disposal Systems Joseph N. Berry No. 1882 Department of Environmental Services

BERRY SURVEYING & ENGINEERING  
 335 SECOND CROWN POINT RD.  
 BARRINGTON, N.H. 332-2863

SCALE : 1 IN. EQUALS 20 FT.  
 DATE : SEPTEMBER 4, 2020  
 FILE NO. : DB 2018-161



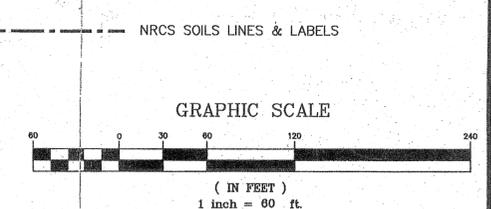
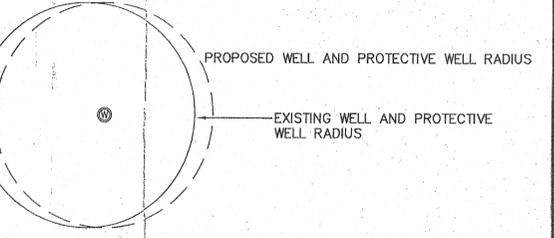
**NRCS SOILS "WEB SOIL"**  
 140B ~ CHATFIELD-HOLLIS CANTON COMPLEX 3-8% SLOPES, VERY STONY  
 538A ~ SQUAMSCOTT FINE SANDY LOAM 0-5% SLOPES  
 495 ~ OSSIPPEE MUCKY PEAT  
 134 ~ MAYBID SILT LOAM



- NOTES:**
- REFERENCE: TAX MAP 287, LOT 4
  - OWNERS OF RECORD: ERTUGRUL YURTSEVEN  
292 LANG ROAD  
PORTSMOUTH, NH 03801  
R.C.R.D. BOOK 2280, PAGE 364
  - APPLICANT: LANG ROAD LAND HOLDINGS LLC  
38 BEECHWOOD LANE  
STRAFFORD, NH 03884
  - TOTAL LOT AREA: 610,110 Sq.Ft., 18.60 Ac.  
ZONING: SRB-SINGLE RESIDENCE B  
MIN LOT SIZE ~ 15,000 SQ.FT.  
MIN. FRONTAGE ~ 100.0'  
FRONT SETBACK ~ 30'  
SIDE SETBACK ~ 10'  
REAR SETBACK ~ 30'  
WETLANDS SETBACK ~ 100'  
MAX. BUILDING HEIGHT ~ 35'  
LOT COVERAGE ~ 20%
  - FIELD SURVEY PERFORMED BY BERRY SURVEYING & ENGINEERING 9-1-13 USING A TOPCON 225 WITH A RANGER DATA COLLECTOR. TRAVERSE WAS ADJUSTED USING COMPASS RULE.
  - TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS PARCEL DOES FALL WITHIN THE FLOOD PLAIN. FLOOD HAZARD REF.: 270, MAP NO.: 33015C0270E, DATED: MAY 17, 2005.
  - THE DATUM ELEVATION IS USGS NGVD 1929.
  - THE INTENT OF THIS PLAN IS TO SHOW THE 2' CONTOURS ON THE ENTIRE SITE AS WELL AS PROPOSED WELL, & LEACHING AREAS
  - THIS SITE IS SERVICED BY ON SITE EFFLUENT DISPOSAL SYSTEMS AND ON SITE WELLS AND IS SUBJECT TO NHDES SUBSURFACE REVIEW
  - THERE IS OBSERVED SURFACE LEDGE AND IS SHOWN ON THIS PLAN.

REVIEWED AND APPROVED  
 IN ACCORDANCE WITH THE  
 REQUIREMENTS OF THE  
 WATER DIVISION  
 NH DEPT OF ENVIRONMENTAL SERVICES  
 Signed: *[Signature]*  
 Date: 6/26/2014  
 SA2014 010457

- LEGEND:**
- IRON BOUND (TO BE SET)
  - DRILL HOLE (SET OR FND)
  - IRON PIPE (FND)
  - UTILITY POLE
  - PROPOSED BOUNDARY LINES
  - WETLANDS LINE
  - 100' WETLAND BUFFER & BUILDING SETBACK LINE
  - FLOOD ZONE (SCALED FROM FIRM)
  - STONE WALL
  - CENTERLINE BERRY'S BROOK
  - ISOLATED AREA OF LEDGE
  - OHU --- OHU --- OVERHEAD UTILITY LINES
  - 42 --- 40 --- EXISTING CONTOUR LINES (MINOR)
  - 40 --- EXISTING CONTOUR LINES (MAJOR)
  - PROPOSED NHDES 4,000 Sq.Ft., LEACHING AREA



DESIGNER  
 Subsurface Disposal Systems  
 Kenneth A. Berry  
 No. 126  
 Department of Environmental Services

I CERTIFY THAT THIS PLAT EXCEEDS THE MINIMUM REQUIREMENT FOR ACCURACY AND COMPLETENESS OF THE STATE OF N.H. AND OF THE CITY OF PORTSMOUTH. - 1:10,000 -  
*[Signature]* 6-18-14  
 KENNETH A. BERRY RLS 805 DATE

THE WETLAND DELINEATION WAS COMPLETED SEPTEMBER 2013 IN ACCORDANCE WITH THE 1987 CORP OF ENGINEERS WETLAND DELINEATION MANUAL. JURISDICTIONAL WETLANDS WERE IDENTIFIED AND DELINEATED USING THE ROUTINE DETERMINATIONS METHOD AS OUTLINED IN THE MANUAL. THE DELINEATION WAS DONE BY PETER SPEAR, CWS

REVISION	DATE	DESCRIPTION
2-25-14		PLAN UPDATES FOR ENTIRE PLAN SET
2-18-17		SHOW PRIME WETLANDS OVER LANG ROAD & BUFFER
1-8-14		MODIFY LOT 4-4, REMOVE NEED FOR CUP
12-9-13		REVISE PER PLANNER RECOMMENDATION

TOPOGRAPHY PLAN  
 PROPOSED SUBDIVISION PLAN  
 SUBDIVISION OF  
 ERTUGRUL YURTSEVEN  
 292 LANG ROAD  
 PORTSMOUTH, N.H.  
 TAX MAP 287, LOT 4

BERRY SURVEYING & ENGINEERING  
 335 SECOND CROWN POINT ROAD  
 BARRINGTON, N.H. 332-2863  
 SCALE: 1 IN. EQUALS 60 FT.  
 DATE: OCTOBER 25, 2013  
 FILE NO.: DB 2013-094

NEW STATE OF NEW HAMPSHIRE  
 No. 805  
 KENNETH A. BERRY  
 LICENSED SURVEYOR  
*[Signature]*