



LOCATION MAP (1"=500')

- #### NOTES & SPECIFICATIONS
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF 310 CMR 15 (TITLE V) OF THE COMMONWEALTH OF MASSACHUSETTS AND THOSE OF THE TOWN BOARD OF HEALTH.
  - THE REQUIRED INSPECTION SCHEDULE DURING THE PROCESS OF CONSTRUCTION SHALL BE ARRANGED BY THE CONTRACTOR WITH THE BOARD OF HEALTH & DESIGN ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
  - THE SEPTIC TANK AND DISTRIBUTION BOX SHALL BE STANDARD DUTY (H-10) OR HEAVY DUTY (H-20) IF LOCATED UNDER A DRIVEWAY.
  - ALL PIPING SHALL BE 4" DIA. SCHD. 40 NSF PVC, WITH ALL JOINTS SEALED WATERTIGHT.
  - ALL STONE SHALL BE DOUBLE WASHED AND FREE OF IRONS, CLAY OR FINES AND SHALL BE SATISFACTORY TO THE TOWN BOARD OF HEALTH.
  - THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL OR OTHER HIGH WATER USE UNITS.
  - THE PROPOSED SEPTIC SYSTEM IS NOT LOCATED WITHIN THE CONE OF INFLUENCE OF ANY MUNICIPAL WELL NOR ARE THERE ANY PRIVATE WELLS LOCATED WITHIN 100 FEET (RADIAL) OF THE PROPOSED SYSTEM. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.
  - EXCAVATE ALL TOP, SUB AND ANY OTHER SOILS ENCOUNTERED DOWN TO THE BOTTOM OF EXCAVATION (SEE CROSS SECTION) INTO THE C HORIZON FOR A HORIZONTAL DISTANCE OF 5' ON ALL SIDES OF THE PROPOSED SYSTEM. BACK FILL TO TOP OF STONE ELEVATION WITH SELECT ON SITE OR IMPORTED SOIL MATERIAL CONSISTING OF CLEAN GRANULAR SAND, FREE OF ORGANIC MATTER OR OTHER DELETERIOUS SUBSTANCES AND MEETING THE SIEVE SIZE REQUIREMENTS OF 310 CMR 15.25(3) & (5) [CONSTRUCTION IN FILL].
  - ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON AN ASSUMED DATUM.
  - CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO THE CONTINUATION OF CONSTRUCTION.
  - WATER TABLE FLUCTUATES ANNUALLY, NO WARRANTY OF A DRY BASEMENT IS EXPRESSED OR IMPLIED.
  - THE PROPOSED WORK DOES NOT LIE IN A CRITICAL FLOOD HAZARD ZONE.
  - THE LOT DOES NOT LIE IN AN OVERLAY DISTRICT FOR GROUNDWATER AQUIFER PROTECTION.
  - THE CONTRACTOR IS TO VERIFY THE BENCHMARK WITH THE SURVEYOR PRIOR TO CONSTRUCTION.
  - MAINTAIN 15' MINIMUM SEPARATION FROM WATER SERVICE TO PROPOSED SEPTIC COMPONENTS.
  - HOUSE DIMENSIONS, ELEVATION AND LOCATION ARE APPROXIMATE AND SUBJECT TO CHANGE. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.
  - THE LOT LIES IN A R4 ZONING DISTRICT. FRONT YARD SETBACK: 50' SIDE YARD SETBACK: 35'+5'/STORY REAR YARD SETBACK: 80'
  - I CERTIFY THAT THE PROPOSED WATER SERVICE SHOWN ON THIS PLAN IS IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT. NO TOWN WATER SERVICE PROPOSED.
  - WETLAND DELINEATION BY CAPUTO AND WICK LTD 2013.
  - THE SPLIT RAIL FENCE WILL SERVE AS THE LIMIT OF LAWN AND FUTURE YARD ACTIVITIES AND SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION.
  - THE 25-FOOT BUFFER ZONE DELINEATES THE LIMITS OF DISTURBANCE AND ALL FUTURE ACTIVITIES.
  - THE 50-FOOT WETLAND BUFFER DELINEATES THE LIMITS OF ALL STRUCTURES AS STATED WITHIN THE TOWN OF SEEKONK CONSERVATION COMMISSION REGULATIONS AMENDED MARCH, 2003.

#### MODIFIED DEP FORMS II & 12 - SOIL SUITABILITY ASSESSMENT & PERCOLATION TEST FOR ON-SITE SEWAGE DISPOSAL

MASSACHUSETTS CITY OR TOWN: SEEKONK

**INSITE** Engineering Services, LLC  
1539 Fall River Avenue, Seekonk, MA 02771  
Phone: (508) 336-4500 Fax: (508) 336-4558  
Web Address: insiteengineers.com

CLIENT: TRACY CONLON DATE: 7-29-2014 STREET: 85 DAVIS STREET  
ADDRESS: 45 MAYFAIR DRIVE TOWN: SEEKONK, MA  
RUMFORD, RI 02916 WEATHER: MAP/LOT: 26 / 157  
PHONE #: 401-339-5003 REPAIR: \_\_\_\_\_ NEW: [X]

PERFORMED BY: MICHAEL S. FARIA RI PE & SE, MA SE708 VEGETATION: WOODS SITE SKETCH: \_\_\_\_\_  
WITNESSED BY: HAROLD E. CHENEVERT, JR. LAND USE: RESIDENTIAL (SEE SEPTIC PLAN)  
EXCAVATION CO.: MITCH TURNER 774-406-0587 DEPTH TO BEDROCK: NONE OBSERVED  
SURFACE STONES: NONE SLOPE: 2% ±

DEEP HOLE #	DEPTH FROM SURFACE IN (ELEV)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING IN (ELEV)	OTHER (STRUCTURE, STONES, CONSISTENCY, % GRAVEL)
TP1	0-12(96.9)	AP	SANDY LOAM	10YR3/2	-	FRIABLE
(97.9)	12-24(95.9)	Bw	SANDY LOAM	10YR3/6	24(95.9)2.5YR4/8	FRIABLE
(ELEV)	24-120(87.9)	C	LOAMY SAND	10YR5/2	-	GRAVEL
TP2	0-12(97.2)	AP	SANDY LOAM	10YR3/2	-	FRIABLE
(98.2)	12-24(96.2)	Bw	SANDY LOAM	10YR3/6	24(96.2)2.5YR4/8	FRIABLE
(ELEV)	24-120(88.2)	C	LOAMY SAND	10YR5/2	-	GRAVEL
TP3	0-12(97.6)	AP	SANDY LOAM	10YR3/2	-	FRIABLE
(98.6)	12-24(96.6)	Bw	SANDY LOAM	10YR3/6	24(96.6)2.5YR4/8	FRIABLE
(ELEV)	24-120(88.6)	C	LOAMY SAND	10YR5/2	-	GRAVEL
TP4	0-6(98.3)	AP	SANDY LOAM	10YR3/2	-	FRIABLE
(98.8)	6-18(97.3)	Bw	SANDY LOAM	10YR3/6	24(96.8)2.5YR4/8	FRIABLE
(ELEV)	18-120(88.8)	C	LOAMY SAND	10YR5/2	-	GRAVEL

DISTANCES FROM (FT.) HOLE # APPROXIMATE (VERIFY)

	TP1	TP2	TP3	TP4
OPEN WATER BODY	>200	>200	>200	>200
POSSIBLE WET AREA	>100	>100	>100	>100
DRINKING WATER WELL	>100	>100	>100	>100
DRAINAGEWAY	>50	>50	>50	>50
PROPERTY LINE	>10	>10	>10	>10
OTHER (SPECIFY)				

DEPTH TO GROUND WATER: (IN.)

	TP1	TP2	TP3	TP4
STANDING WATER IN THE HOLE	66	66	72	60
WEeping FROM PIT FACE	48	48	48	42
EST. HIGH GROUND WATER	24	24	24	24

ASSESSMENT OF DEEP HOLE: SUITABLE UNSUITABLE

MOTTLING: ABUNDANCE SIZE CONTRAST  
F: FEW 1: FINE P: FAINT  
C: COMMON 2: MEDIUM D: DISTINCT  
M: MANY 3: COARSE E: PROMINENT

PERCOLATION TEST

HOLE #	TP1	TP2	TP4
DEPTH OF PERC IN (ELEV)	36(95.2)	34(96.0)	
START/PRE-SOAK	8:30	8:29	
TIME AT 1"	8:45	8:44	
TIME AT 2"	9:20	9:35	
TIME AT 6"	10:14	11:22	
TIME (12"-9'-6") (MIN)	54	107	
RATE (MIN/INCH)	18	36	

ADDITIONAL TESTING NEEDED: NO  
COMMENTS: NONE

(DEP CERTIFIED SOIL EVALUATOR) PRINTED: MICHAEL S. FARIA RI PE & SE, MA SE708 SIGNED: [Signature]

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.017 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED ON THIS SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE TO 310 CMR 15.017.

#### DESIGN CALCULATIONS

AVERAGE DAILY SEWAGE FLOW (GALLONS PER DAY)  
4 BEDROOM DWELLING @ 110 GPD PER BEDROOM = 440 GPD  
SEPTIC TANK SIZING (GALLONS)  
200% AVERAGE DAILY FLOW = 2 (440) = 880 GALLONS  
4 BEDROOM HOME REQUIRES 1500 GALLON TANK (MINIMUM).  
DESIGN FOR 40 MPI PER TITL V  
REQUIRED MINIMUM LEACHING AREA  
REQUIRED AREA = 440 GPD / 0.25 GPD / SF = 1,760 SF MINIMUM  
LEACHING FIELD BED: 32' X 55' = 1,760 SF  
RESERVE AREA: AS SHOWN IN THE PLAN VIEW 1,782 SF

### "SEPTIC SYSTEM DESIGN AND NOI PLAN"

**"DAVIS STREET"**  
85 DAVIS STREET, SEEKONK, MA 02771  
ASSESSORS MAP 26 LOT 157

OWNER: TRACY CONLON  
45 MAYFAIR DRIVE, RUMFORD, RI 02916

JOB # 14-019 SCALE: 1" = 30' DESIGN BY: MSF DATE: AUGUST 14, 2014

REVISED:

RECEIVED  
AUG 20 2014  
SEEKONK CONSERVATION

PROFESSIONAL SEAL  
MICHAEL S. FARIA  
RI PE & SE, MA SE708  
NO. 40265  
8-14-14

INSITE Engineering Services, LLC  
PROFESSIONAL ENGINEERS | LAND SURVEYORS  
Precision. Clarity. Certainty.

1539 Fall River Avenue, Seekonk, MA 02771  
Phone: (508) 336-4500 Fax: (508) 336-4558  
Web Address: insiteengineers.com

SHEET 1 OF 1

COPYRIGHT: INSITE ENGINEERING SERVICES