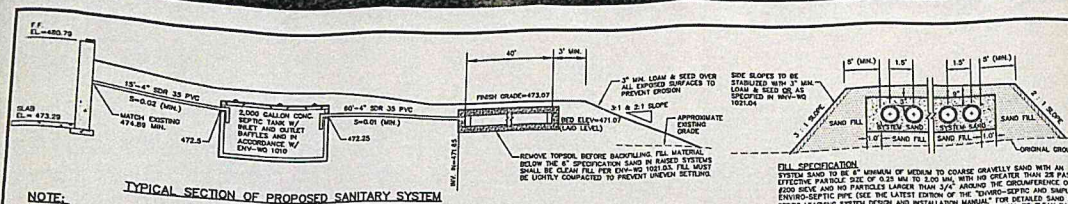
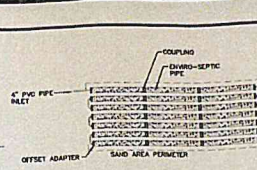


TYPICAL SECTION OF PROPOSED SANITARY SYSTEM
-NOT TO SCALE-

NOTE:
1. SEPTIC TANK, DISTRIBUTION BOX AND ENVIRO-SEPTIC COMPONENTS TO BE SUPPLIED BY SHEA CONCRETE, INC., OR EQUAL. SEPTIC TANK MUST COMPLY WITH ENV-WQ 1010 SPECIFICATIONS.
2. ENVIRO-SEPTIC LEACHING SYSTEM TO BE INSTALLED IN STRICT ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN CURRENT EDITION OF THE PRESBY WASTEWATER TREATMENT SYSTEM - NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL FOR ADVANCED ENVIRO-SEPTIC®, AND ENVIRO-SEPTIC® WASTEWATER TREATMENT SYSTEMS.

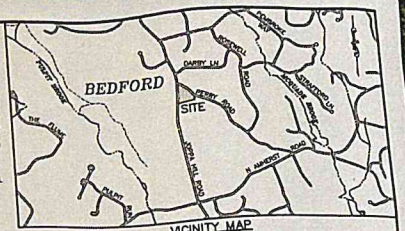
FILL SPECIFICATION
SYSTEM SAND TO BE 3" MINIMUM OF MEDIUM TO COARSE GRAVELLY SAND WITH AN EFFECTIVE PARTICLE SIZE OF 0.25 MM TO 2.00 MM, WITH NO GREATER THAN 2% PASSING A #200 SIEVE AND NO PARTICLES LARGER THAN 3/4" AROUND THE CIRCUMFERENCE OF THE ENVIRO-SEPTIC PIPE (SEE THE LATEST EDITION OF THE "ENVIRO-SEPTIC AND SIMPLE SEPTIC LEACHING SYSTEM DESIGN AND INSTALLATION MANUAL" FOR DETAILED SAND AND FILL REQUIREMENTS. ALL OTHER FILL USED IN RAISED SYSTEMS SHALL BE CLEAN BANK RUN SAND, FREE FROM TOPSOIL, ROOTS, DREDGING, DEBRIS, OR STONES LARGER THAN 6 IN ANY DIMENSION IN ACCORDANCE WITH ENV-WQ 1021.03

TYPICAL "ENVIRO-SEPTIC" CROSS SECTION
-NOT TO SCALE-

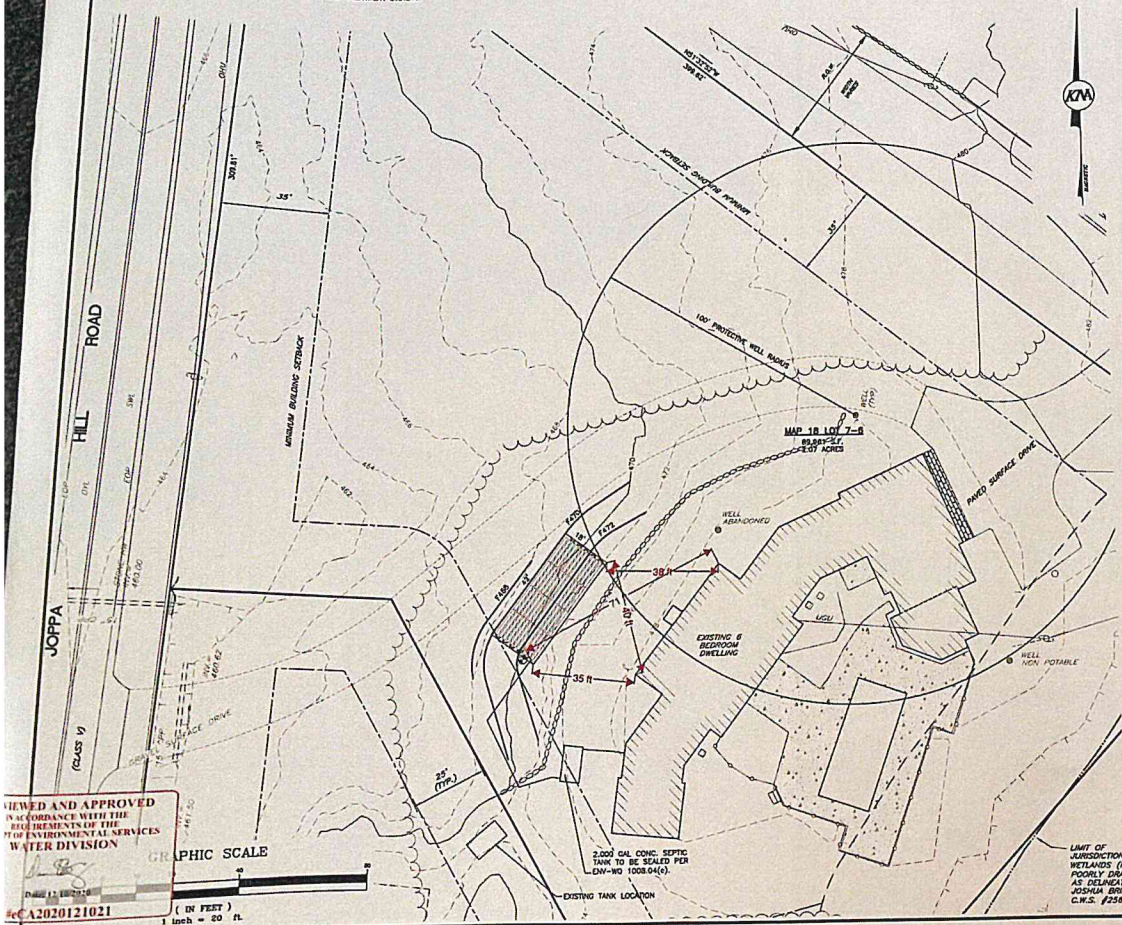


NOTE: EFFLUENT DISPOSAL AREA SHOWN IS A "SERIAL DISTRIBUTION" SYSTEM AS DEPICTED IN THE NEW HAMPSHIRE DESIGN AND INSTALLATION MANUAL FOR ADVANCED ENVIRO-SEPTIC®, AND ENVIRO-SEPTIC® WASTEWATER TREATMENT SYSTEMS (2018 EDITION).

EDA PLAN DETAIL
SCALE: 1" = 10'



VICINITY MAP
SCALE: 1" = 2,000'±



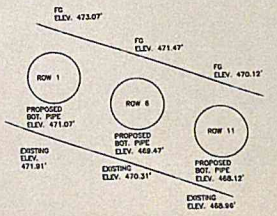
OPERATING REQUIREMENTS
THE SEPTIC TANK SHALL BE INSPECTED FOR ACCUMULATION OF SLUDGE AND SURFACE SCUM AT LEAST ONCE EVERY YEAR. WHEN THE COMBINED THICKNESS OF THE SLUDGE AND SURFACE SCUM EQUALS 1/3 OR MORE OF TANK DEPTH, THE TANK SHALL BE PUMPED BY A LICENSED SEPTIC HAULER.

TO PREVENT OBSTRUCTION OF THE DISTRIBUTION LINES AND LEACH FIELD, GREASE AND BULKY WASTES SHALL NOT BE FLUSHED OR INTRODUCED INTO THE SEPTIC SYSTEM.

TOXIC OR HAZARDOUS MATERIALS SHALL NOT BE INTRODUCED INTO THE SEPTIC SYSTEM.

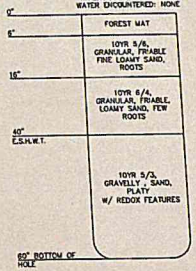
TO PREVENT DAMAGE TO THE DISTRIBUTION LINES AND LEACH FIELD, VEHICLES, LIVESTOCK AND ANY OTHER HEAVY OBJECTS SHALL NOT BE ALLOWED ON THE LEACH FIELD UNLESS IT IS DESIGNED TO MEET H-20 LOADING.

IF WET AREAS APPEAR ON THE GROUND SURFACE OR IF ODORS OCCUR, THE SYSTEM SHALL BE INSPECTED FOR THE SOURCE OF THE PROBLEM, AND ACTION SHALL BE TAKEN TO CORRECT THE PROBLEM(S).



SLOPE SYSTEM ELEVATIONS
-NOT TO SCALE-

TP #9
LOGGED BY GPC
PERC TEST @ 20"
DATE: 10-22-2020
PERC RATE: 8 MIN./INCH
IMPERVIOUS LAYER: NONE
WATER ENCOUNTERED: NONE



NOTE:
THIS SEPTIC SYSTEM DESIGN PLAN SPECIFIES THE USE OF AN ENVIRO-SEPTIC® LEACHING SYSTEM WHICH CAN NOT BE SUBSTITUTED WITH ANY OTHER SIMILAR MATERIAL.

GENERAL NOTES:
1. REFERENCE THIS PARCEL AS BEDFORD MAP 18 LOT 7-6.
2. TOTAL AREA OF PARCEL IS 2.07 ACRES
3. LOT IS TO BE SERVED BY ON-SITE SUBSURFACE SEWAGE DISPOSAL SYSTEM AND WELL WATER.
4. ALL THE CONNECTIONS BETWEEN A SEPTIC TANK AND THE PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK SHALL BE SEALED WITH A WATERTIGHT, FLEXIBLE JOINT CONNECTOR.
5. NO WATER WELLS OR OPEN WATER WAYS WITHIN 100 FEET OF THE PROPOSED SEPTIC SYSTEM. NO POORLY DRAINED SOILS WITHIN 50 FEET OF PROPOSED SYSTEM. NO POORLY DRAINED SOILS WITHIN 75-FEET OF PROPOSED SYSTEM.
6. REPLACEMENT OF SYSTEM TO BE DONE IN KIND WHEN AND/OR IF NEEDED.
7. SOIL MAPPING TAKEN FROM THE LATEST PUBLICATION OF THE U.S.D.A.-S.C.S. SOIL SURVEY, SUGGESTS THE SUBJECT PARCEL CONSISTS OF THE FOLLOWING MAPPING UNITS.
   43C - CANTON FINE SANDY LOAM; 8 TO 15% SLOPES
8. SYSTEM IS NOT DESIGNED FOR THE DISPOSAL OF HAZARDOUS WASTE OR DISCHARGE FROM A WATER CONDITIONING SYSTEM.
9. THERE IS NOT A BURIAL SITE OR CEMETERY WITHIN 100' OF ANY COMPONENT OF THE ISDS

DESIGN CRITERIA
EXISTING USE: 6-BEDROOM SINGLE FAMILY HOME
PERCOLATION RATE: 8 MIN./INCH @ TP#8

REQUIRED LEACHING AREA USING ENVIRO-SEPTIC PIPE
420 L.F. OF ENVIRO-SEPTIC PIPE
(PER ENVIRO-SEPTIC DESIGN MANUAL)

LEACHING AREA PROVIDED
430 L.F. ENVIRO-SEPTIC PIPE
11 ROWS @ 40 L.F. EACH

SEPTIC TANK CAPACITY REQUIRED:
LIQUID CAPACITY AS PER ENV-WQ ENV-Wq 1010.01, UP TO 4 BEDROOMS, 250 PER EACH ADDITIONAL BEDROOM.
REQUIRED CAPACITY IS 1,750 GALLONS

SEPTIC TANK CAPACITY PROVIDED
1-2,000 GALLON PRECAST CONCRETE SEPTIC TANK;
PROPOSED SEPTIC TANK SHALL COMPLY WITH ALL CONDITIONS SET FORTH IN ENV-WQ 1010.

NOTE: THIS SYSTEM HAS NOT BEEN DESIGNED FOR USE WITH A GARBAGE DISPOSAL.

DESIGN INTENT:
BOTTOM OF EFFLUENT DISPOSAL AREA TO BE SET NO LOWER THAT .84' BELOW THE HIGHEST EXISTING GRADE (EL. 471.91 AS DEPICTED ON THE PLAN) IN ORDER TO EXCEED A 30-INCH SEPARATION FROM THE E.S.H.W.T. AND THE BOTTOM OF THE EFFLUENT DISPOSAL PIPE WHEN USING AN "ENVIRO-SEPTIC® WASTEWATER TREATMENT SYSTEM.

EFFLUENT DISPOSAL DESIGN
98 PERRY ROAD
MAP 18 LOT 7-6
98 PERRY ROAD
BEDFORD, NEW HAMPSHIRE
HILLSBOROUGH COUNTY

OWNER OF RECORD:	APPLICANT:
LMJ PROPERTIES, LLC 4 ROSEWELL ROAD BEDFORD, N.H. 03110 H.C.R.D. BK. 9172 PG. 2723	MICHAEL MCDONOUGH 98 PERRY ROAD BEDFORD, N.H. 03110

KEACH-NORDSTROM ASSOCIATES, INC.
Civil Engineering Land Surveying Landscape Architecture
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

Designer of Subsurface Disposal Systems
Gifford P. Coburn No. 1839

REVISIONS			
No.	DATE	DESCRIPTION	BY
1	12-10-20	REVISED ER NHDES COMMENTS	GPC

DATE: DECEMBER 5, 2020 SCALE: 1" = 20'
PROJECT NO: 19-0624-1 SHEET 1 OF 1

VIEWED AND APPROVED
IN ACCORDANCE WITH THE
REQUIREMENTS OF THE
DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 11/20/2020
#eCA20201121021