DESIGN CRITERIA

TYPE OF ESTABLISHMENT	3 BEDROOM RESIDENTIAL
DESIGN FLOW	330 G.P.D.
SEPTIC TANK CAPACITY	NEW 1500 GAL. SEPTIC TANK
LEACHING CAPACITY REQUIRED	330 GPD / 0.60 = 550 SQ FT REQUIRED
LEACHING CAPACITY PROVIDED	14'-0" X 40'-0" LEACHBED = 560 SQ. FT.
	560 SQ. FT. * 0.60 = 336 G.P.D.

TEST PIT DATA

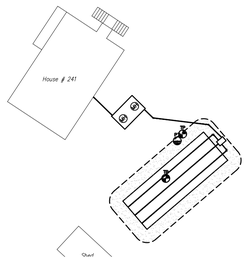
SOIL EVALUATOR: JASON DUBOIS
WITNESSED BY: JULIE VAN ARSDALEN
DATE: 2/27/2018
APPLICANT: DAVID FOY

TEST PIT # 1	TEST PIT # 2
0"-6" A SL 10YR 3/2 6"-30" B SL 10YR 5/6 30"-88" C SL 2.5Y 5/4	0"-6" A SL 10YR 3/2 6"-26" Bw SL 10YR 5/6 26"-84" C SL 2.5Y 5/4
REDOX @ 36"	REDOX @ 36"
GROUND WATER ELEV (OBSERVED) N/A	GROUND WATER ELEV (OBSERVED) N/A
MOTTLING ELEV (OBSERVED) 36"	MOTTLING ELEV (OBSERVED) 36"
REFUSAL ELEV N/A	REFUSAL ELEV N/A

AS BUILT INFORMATION

SYSTEM INSPECTION DATE:

SYSTEM CONSTRUCTED BY:



AS BUILT NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT A LETTER CERTIFYING THAT THE SEWER GRAVEL INSTALLED MEETS TITLE V SIEVE ANALYSIS REQUIREMENTS TO DC ENGINEERING PRIOR TO THE SUBMISSION OF THE AS-BUILT. DC ENGINEERING IS NOT RESPONSIBLE FOR THE SIEVE ANALYSIS.

AS-BUILT TIES

POINTS	DIST.
A-C	
B-C	
A-D	
B-D	
A-E	
B-E	
A-F	
B-F	
A-G	
B-G	
A-H	
B-H	

GENERAL NOTES

1. ALL CHANGES TO THIS PLAN MUST BE APPROVED BY THE TOWN OF LEICESTER BOARD OF HEALTH
2. ALL SITE WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH TITLE 5
3. ANY CONDITIONS DURING CONSTRUCTION THAT DIFFER FROM THOSE ENCOUNTERED DURING TESTING SHALL BE REPORTED TO DC ENGINEERING AND THE LOCAL BOARD OF HEALTH IMMEDIATELY.
4. REMOVE ALL TOPSOIL & SUBSOIL FOR A DISTANCE OF 5 FEET AROUND SYSTEM

4a. FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF SELECT ON-SITE OR IMPORTED SOIL MATERIAL. THE FILL SHALL BE COMPRISED OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES. A SIEVE ANALYSIS, USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL. UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED ON THE #4 SIEVE. FOR FURTHER INFORMATION SEE 310CMR 15:255(3).

5. OFFSETS ARE NOT TO BE USED FOR THE REPRODUCTION OF PROPERTY LINES.
6. ALL ELEVATIONS REFER TO AN ASSUMED DATUM.
7. NO ADDITIONAL CAPACITY HAS BEEN PROVIDED FOR A GARBAGE DISPOSAL.(NOT ALLOWED)

7a. NO ADDITIONAL CAPACITY HAS BEEN PROVIDED FOR A WATER SOFTNER.(NOT ALLOWED)

8. THE PROPOSED SITE IS SUBJECT TO THE WETLANDS PROTECTION ACT.

9. THE PROPOSED PROJECT DOES NOT FALL WITHIN A FLOOD HAZARD ZONE.
10. THE SEPTIC TANK SHOULD BE INSPECTED AND PUMPED EVERY 2 YEARS.
11. ALL EXISTING OR PROPOSED WELLS AND SEPTIC SYSTEMS WITHIN 150 FEET OF THE PROPOSED CONSTRUCTION ARE SHOWN OR NOTED TO THE BEST OF OUR KNOWLEDGE.
12. ALL WETLANDS, BROOKS, BODIES OF WATER AND FLOOD HAZARD ZONES WITHIN 200 FEET OF THE PROPOSED CONSTRUCTION ARE SHOWN OR NOTED TO THE BEST OF OUR KNOWLEDGE.
13. INSPECTIONS REQUIRED FOR ASBUILT CERTIFICATION * SEE ASBUILT NOTE *
    A. BOTTOM INSPECTION PRIOR TO THE INSTALLATION OF SEWER GRAVEL.
    B. ALL COMPONENTS OF SEPTIC SYSTEM MUST BE COMPLETE AND VISIBLE PRIOR TO REQUESTING A FINAL INSPECTION
14. DIG SAFE TO NOTIFIED PRIOR TO CONSTRUCTION AT 1-888-DIGSAFE.
15. INSTALL MAGNETIC TAPE OVER ALL SYSTEM COMPONENTS, TANK, D-BOX, LEACH AREA.
16. HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS AT THE SEPTIC TANK AND D-BOX LEACHING AREA TO BE WATERTIGHT 4" PVC ASTM D 1785 LAID ON FIRM BASE.

PERCOLATION TEST DATA

SOIL EVALUATOR: JASON DUBOIS
WITNESSED BY: JULIE VAN ARSDALEN
DATE: 2/27/2018

	1	2
DEPTH:	36"	
FIELD RATE:	10 MPI	
DESIGN RATE:	10 MPI	
SOIL CLASSIFICATION:	1	
L.T.A.R.	0.60	

SEE ALTERNATIVE TO PERC RESULTS

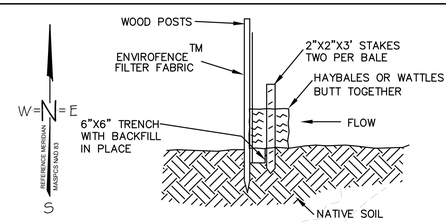
I CERTIFY THAT ON 11/05 I HAVE PASSED THE EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 1.018(2)

SYMBOL KEY

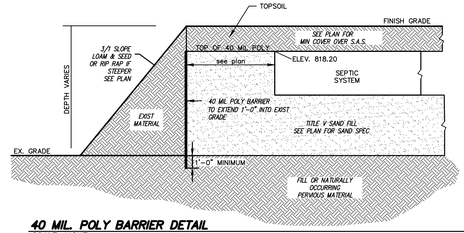
STONE WALL
BOUND
IRON PIPE
DRILL HOLE
UTILITY POLE
WELL
TEST PIT
PERC TEST
BENCH MARK

DIG-SAFE
PHONE # 877-344-7233

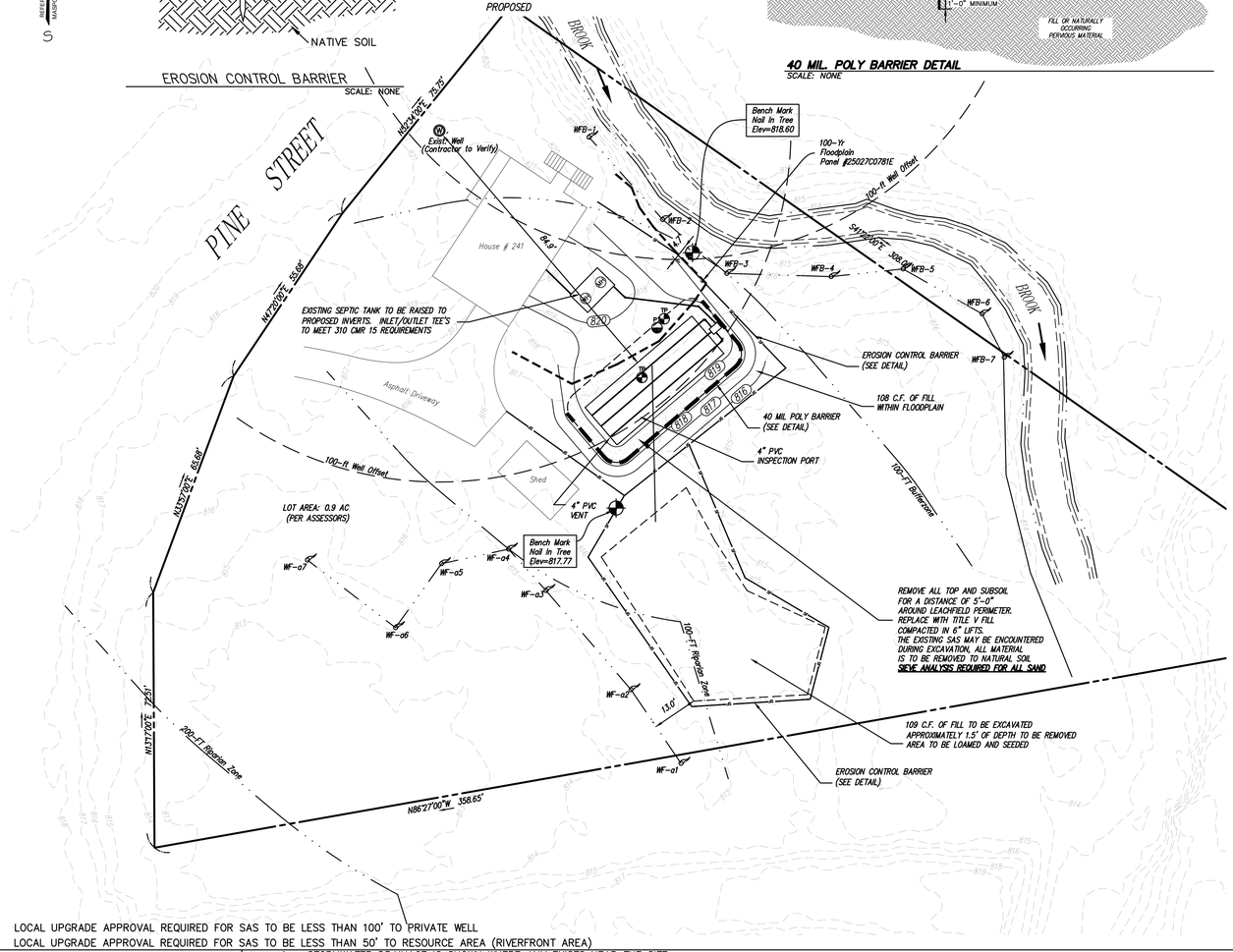
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.



EROSION CONTROL BARRIER
SCALE: NONE



40 MIL. POLY BARRIER DETAIL
SCALE: NONE



LOCAL UPGRADE APPROVAL REQUIRED FOR SAS TO BE LESS THAN 100' TO PRIVATE WELL
LOCAL UPGRADE APPROVAL REQUIRED FOR SAS TO BE LESS THAN 50' TO RESOURCE AREA (RIVERFRONT AREA)

1. STORMWATER DRAINAGE IS SHOWN WHERE ANY EXISTS NEAR THE SITE
2. ANY WETLANDS, WELLS (PUBLIC OR PRIVATE), WATER SUPPLIES, AND SEPTIC SYSTSMS WITHIN 200' OF THE DISTURBED AREA ARE SHOWN ON THE PLAN.
3. NO EASEMENTS ARE LOCATED ON THE PROPERTY
4. AREA IS NOT TRIBUTARY TO A DRINKING WATER SUPPLY
5. NO OVERHEAD OR UNDERGROUND ELECTRIC LINES ARE LOCATED ON THE PROPERTY

DISPOSAL SYSTEM CROSS SECTION

NOTE: DIG SAFE TO BE NOTIFIED PRIOR TO CONSTRUCTION AT 1-888-DIGSAFE.

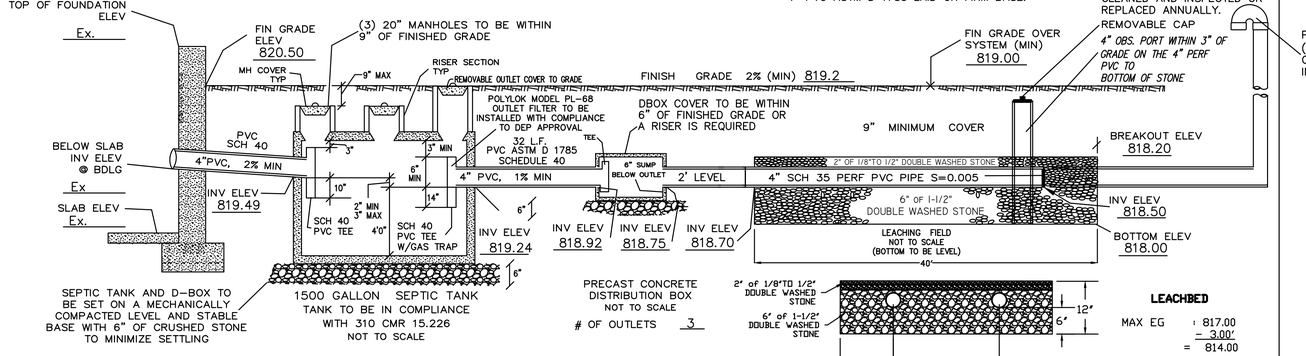
NOTE: INSTALL MAGNETIC TAPE OVER ALL SYSTEM COMPONENTS, TANK, D-BOX, LEACH FIELD.

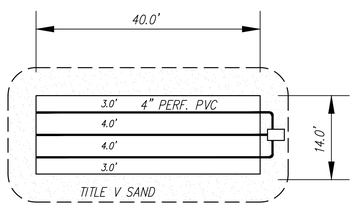
NOTE: HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS AT THE SEPTIC TANK AND D-BOX

NOTE: ALL PIPE FROM FOUNDATION TO LEACHING AREA TO BE WATERTIGHT 4" PVC ASTM D 1785 LAID ON FIRM BASE.

NOTE: ANY RISERS TO GRADE MUST BE SECURED AGAINST UNAUTHORIZED ACCESS

NOTE: POLYLOCK FILTER TEE TO BE CLEANED AND INSPECTED OR REPLACED ANNUALLY.

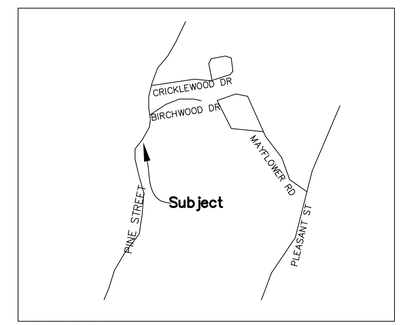




REMOVE ALL TOP AND SUBSOIL FOR A DISTANCE 5' AROUND LEACHFIELD AND REPLACE W/ TITLE V FILL COMPACTED IN 6" LIFTS.

LEACHFIELD DETAIL
NOT TO SCALE

PVC VENT-CONNECT ALL ENDS (MIN.36" ABOVE FIN. GRADE)
CHARCOAL FILTER TO BE INSTALLED AT CAP



LOT LOCUS
SCALE: NONE

JASON D. DUBOIS
DUBOIS, P.E.
PROFESSIONAL ENGINEER
MA LIC. NO. 34734

JEREMY S. CROTEAU, P.L.S.
PROFESSIONAL LAND SURVEYOR
MA LIC. NO: 48722

DC
508-769-6669
508-341-2127

NO.	DATE	REVISION

NORTH

W = N = E

CLIENT: DAVID FOY
1 BREEZY GREEN ROAD
LEICESTER, MA

SEPTIC SYSTEM PLAN REPAIR
SITE ADDRESS:
241 PINE STREET
LEICESTER, MA

DRAWN BY:	JDD
CK'D BY: JDD	REV #: 0
DATE: 3-16-18	SCALE: 1"=20'
PROJECT #: 18-111	DWG. NO.: S-1