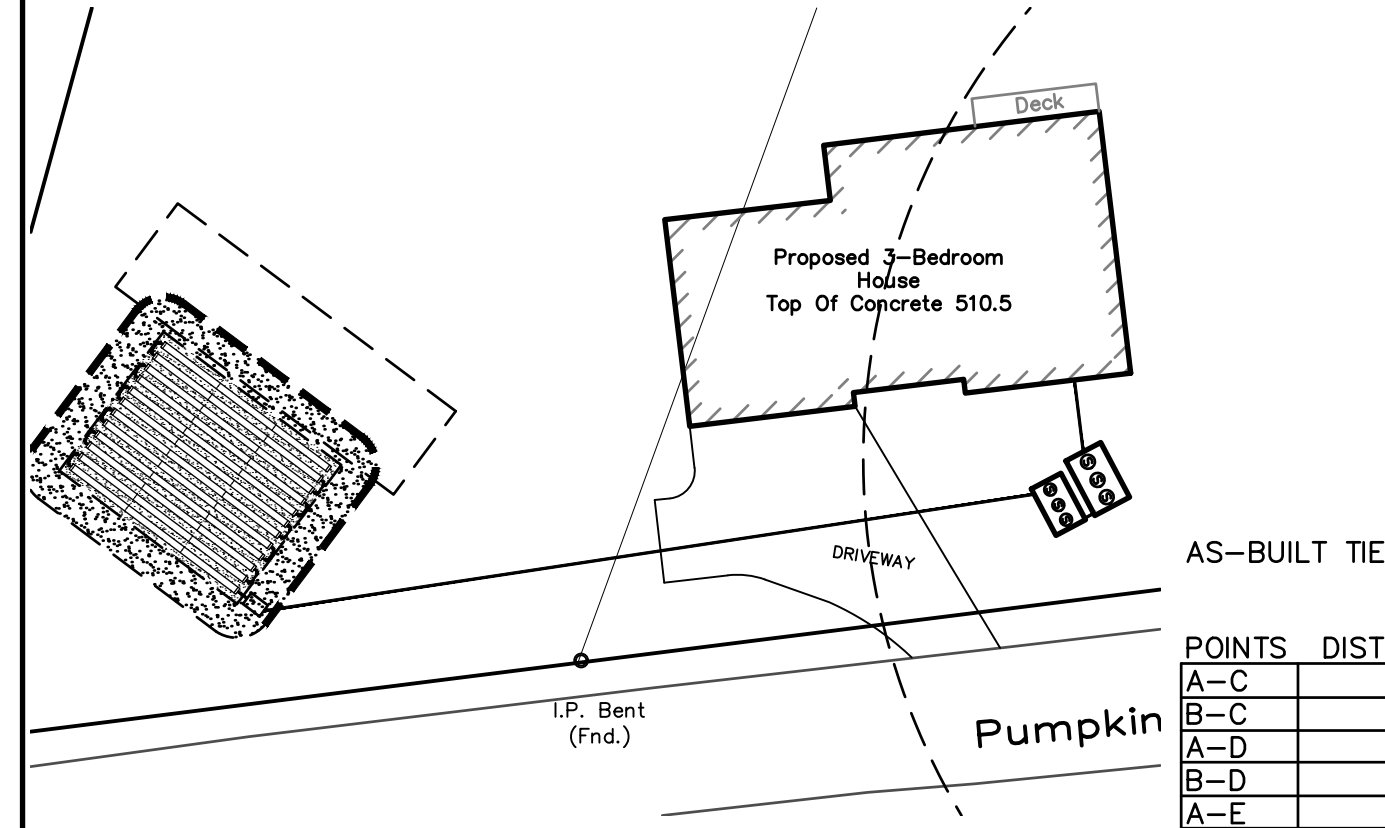


DESIGN	CRITERIA
TYPE OF ESTABLISHMENT	3 BEDROOM RESIDENTIAL
DESIGN FLOW	330 G.P.D.
SEPTIC TANK CAPACITY	NEW 1500 GAL. SEPTIC TANK
LEACHING CAPACITY REQUIRED	330 GPD / 0.25 = 1,320 SQ FT REQUIRED
LEACHING CAPACITY PROVIDED	1,320 SQ FT @ 60% = 792 SQ FT (PRESBY) PRESBY 210 L.F. PIPE MIN 400 L.F. ENVIRO SEPTIC PIPE PROVIDED 52' x 17' LEACHFIELD = 884 SQ.FT. PROVIDED

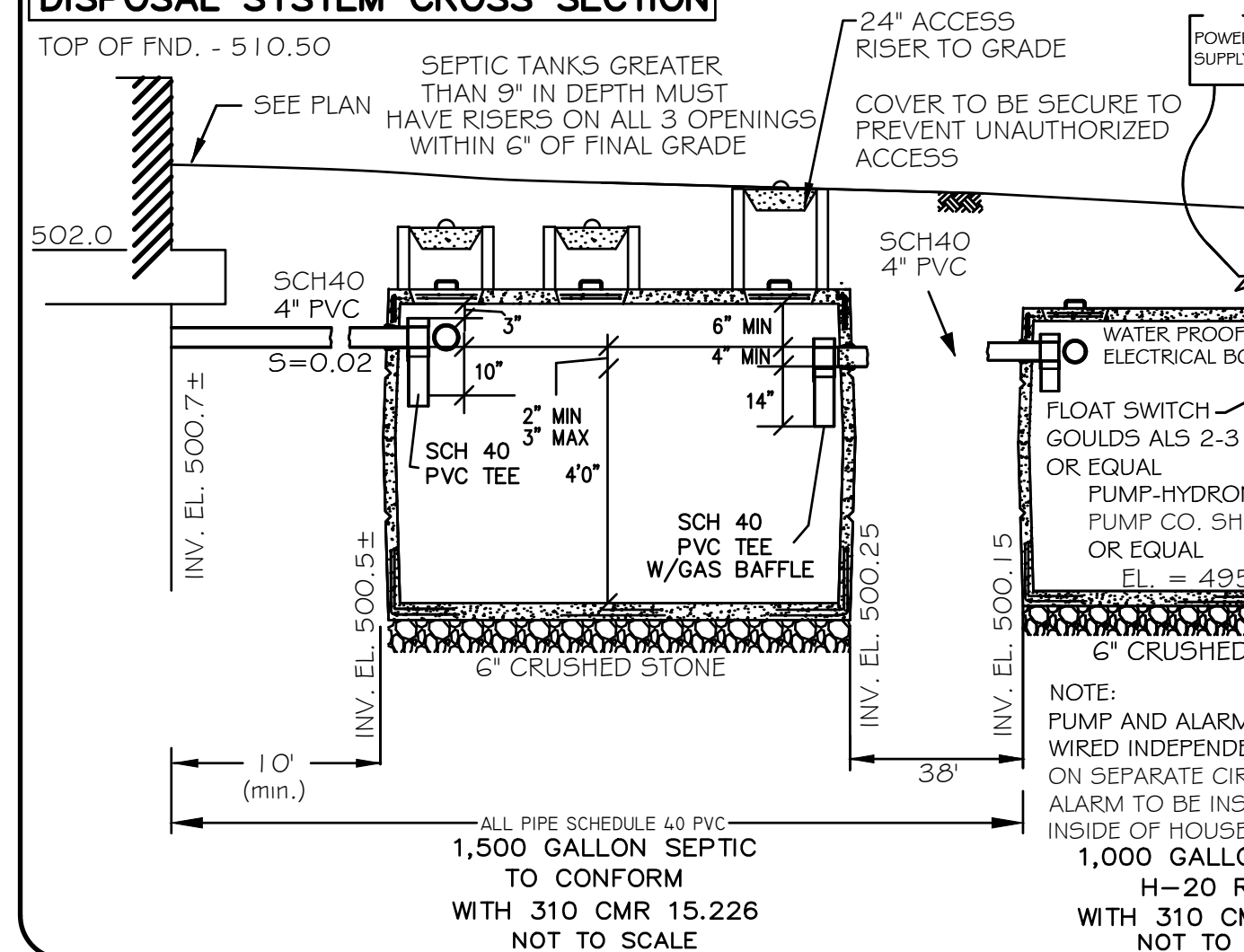
TEST PIT DATA	
SOIL EVALUATOR: JASON DUBOIS	
WITNESSED BY: TOM PURCELL	
DATE: 10/3/2019	
APPLICANT: JIM ERARA	
TEST PIT # 1	TEST PIT # 2
0"-4" A SL 10YR 3/2 4"-22" Bw SL 10YR 5/6 22"-88" C SL 2.5Y 5/3	0"-5" A SL 10YR 3/2 5"-24" Bw SL 10YR 5/6 24"-88" C SL 2.5Y 5/3
NO REDOX @ 42"	NO REDOX @ 42"
GROUND WATER ELEV (OBSERVED) N/A MOTTILING ELEV (OBSERVED) 42"	GROUND WATER ELEV (OBSERVED) N/A MOTTILING ELEV (OBSERVED) 42"
REFUSAL ELEV N/A	REFUSAL ELEV N/A
TEST PIT # 3	TEST PIT # 4
0"-4" A SL 10YR 3/2 4"-24" Bw SL 10YR 5/6 24"-90" C SL 2.5Y 5/3	0"-4" A SL 10YR 3/2 4"-26" Bw SL 10YR 5/6 26"-84" C SL 2.5Y 5/3
NO REDOX @ 42"	NO REDOX @ 42"
GROUND WATER ELEV (OBSERVED) N/A MOTTILING ELEV (OBSERVED) 42"	GROUND WATER ELEV (OBSERVED) N/A MOTTILING ELEV (OBSERVED) 42"
REFUSAL ELEV N/A	REFUSAL ELEV N/A

**AS BUILT INFORMATION**  
SYSTEM INSPECTION DATE:  
SYSTEM CONSTRUCTED BY:



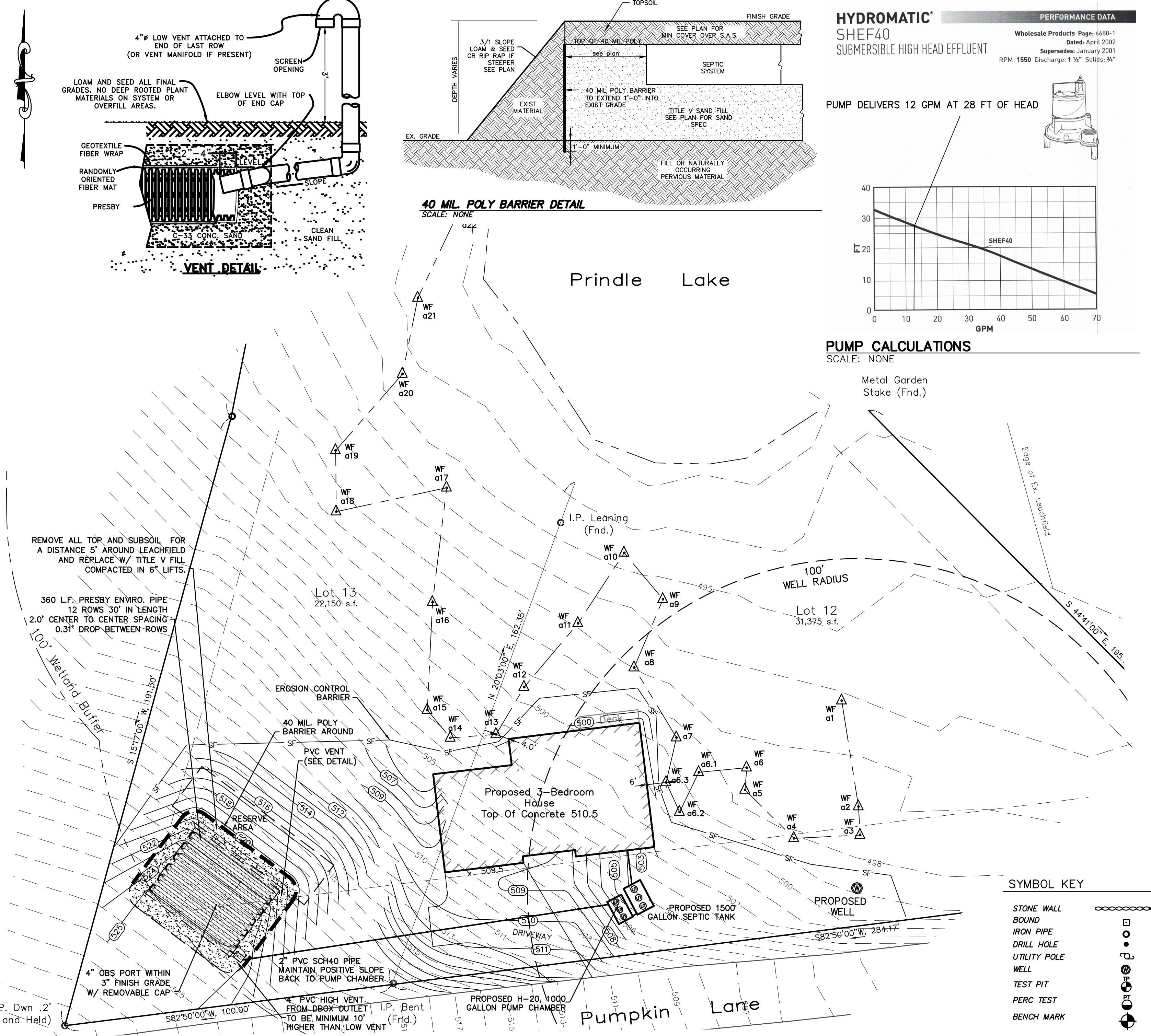
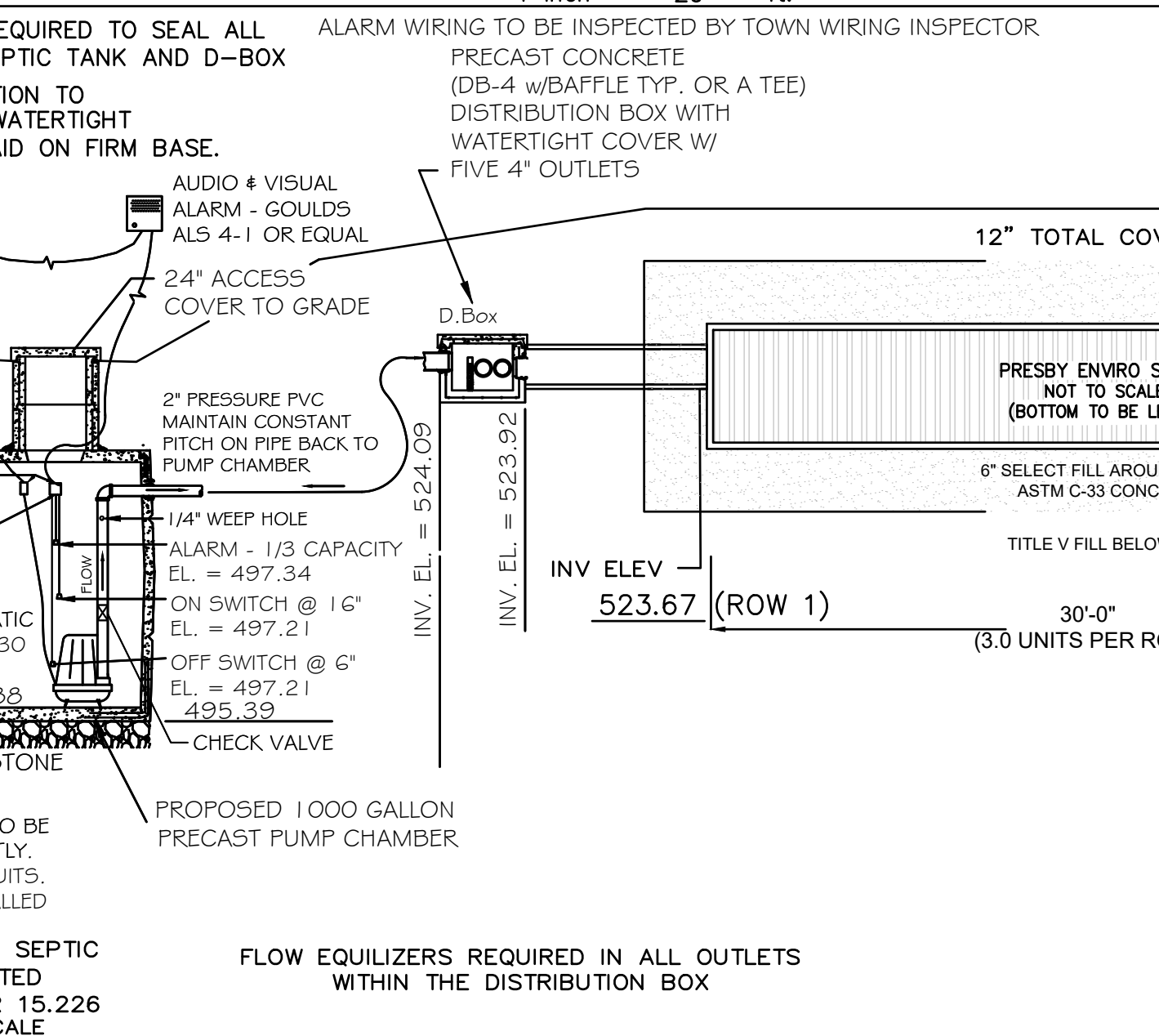
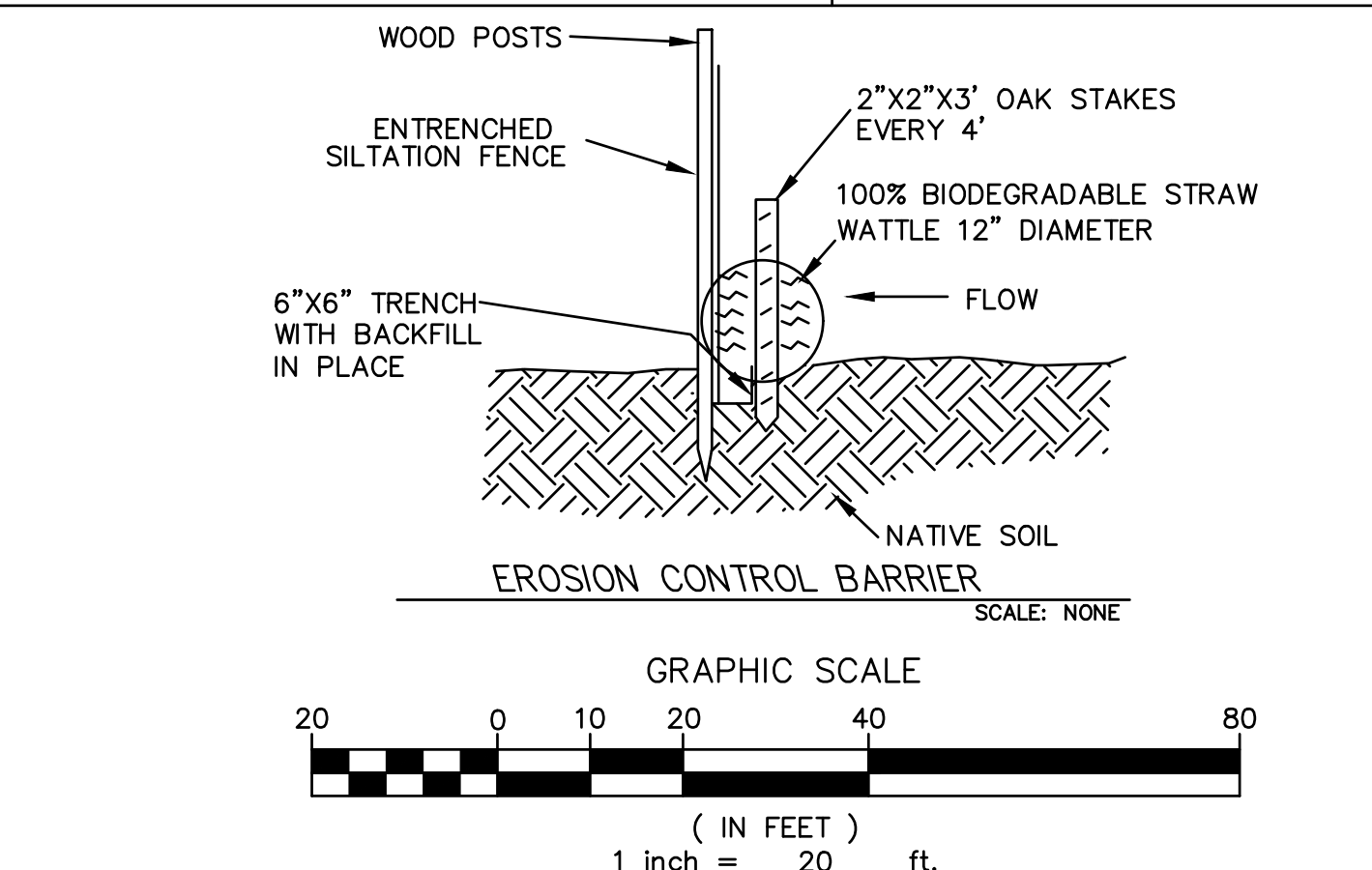
**AS BUILT NOTE**  
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT A LETTER CERTIFYING THAT THE SEWER GRAVEL INSTALLED MEETS TITLE V SEWER ANALYSIS REQUIREMENTS TO DC ENGINEERING PRIOR TO THE SUBMISSION OF THE AS-BUILT. DC ENGINEERING IS NOT RESPONSIBLE FOR THE SIEVE ANALYSIS.

NOTE: DIG SAFE TO NOTIFIED PRIOR TO CONSTRUCTION AT 1-888-DIGSAFE.  
NOTE: INSTALL MAGNETIC TAPE OVER ALL SYSTEM COMPONENTS, TANK, D-BOX, LEACH FIELD

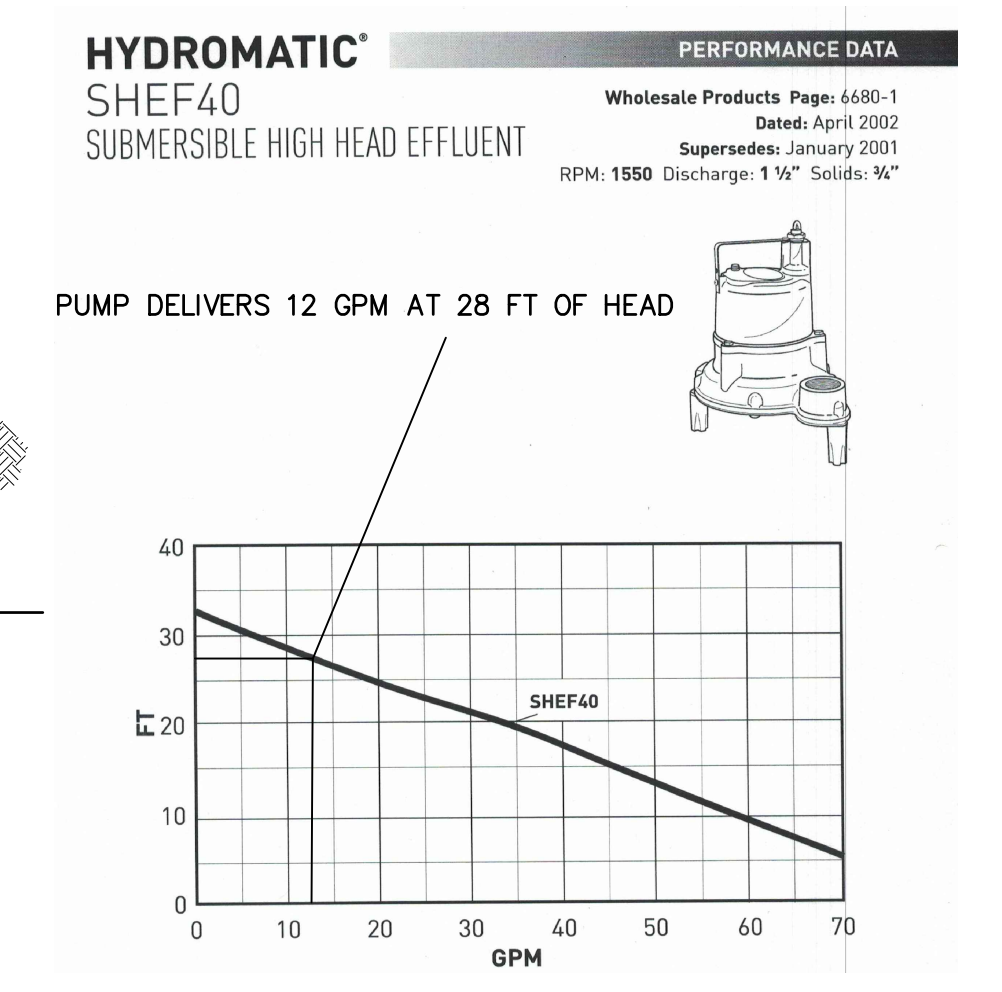
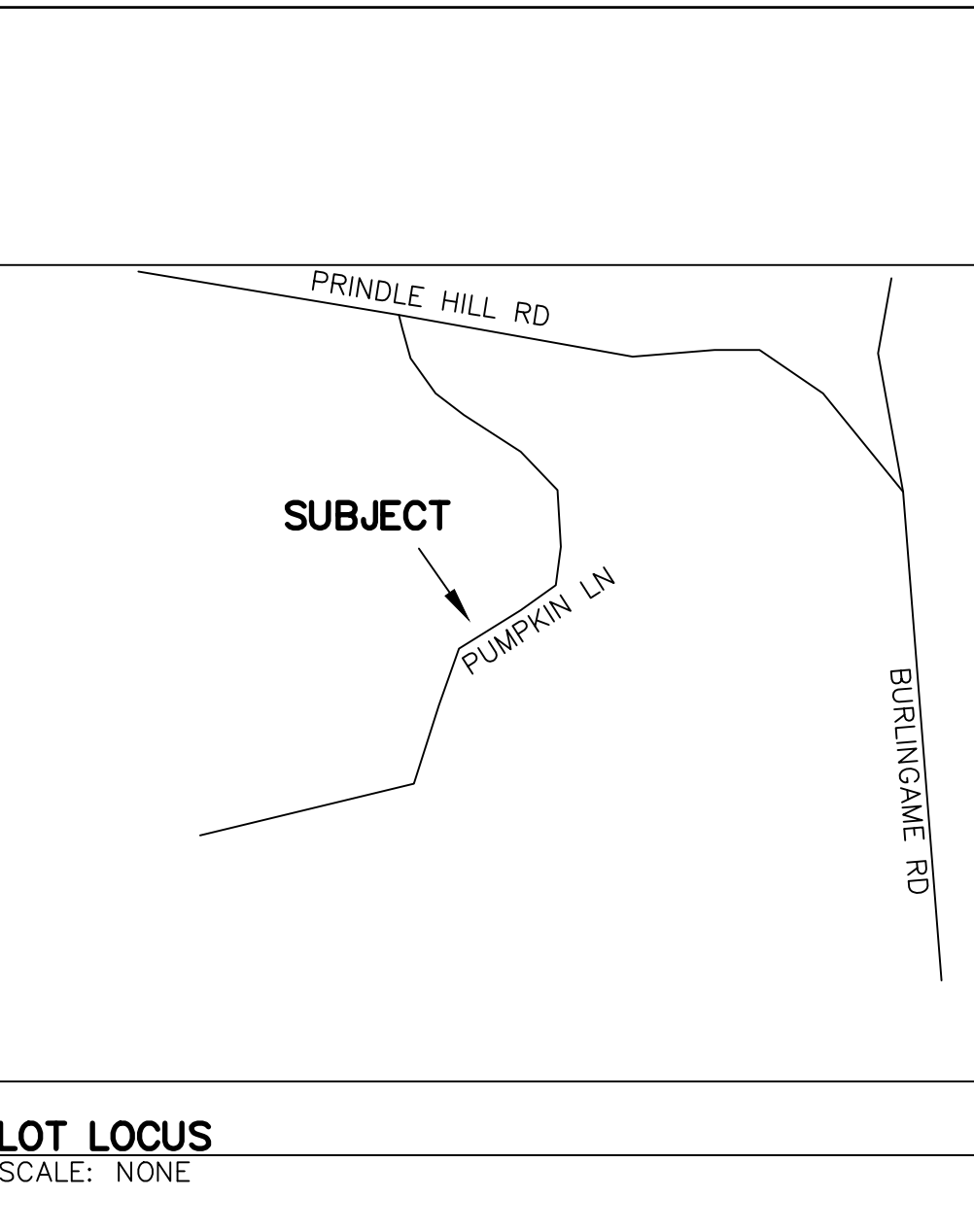
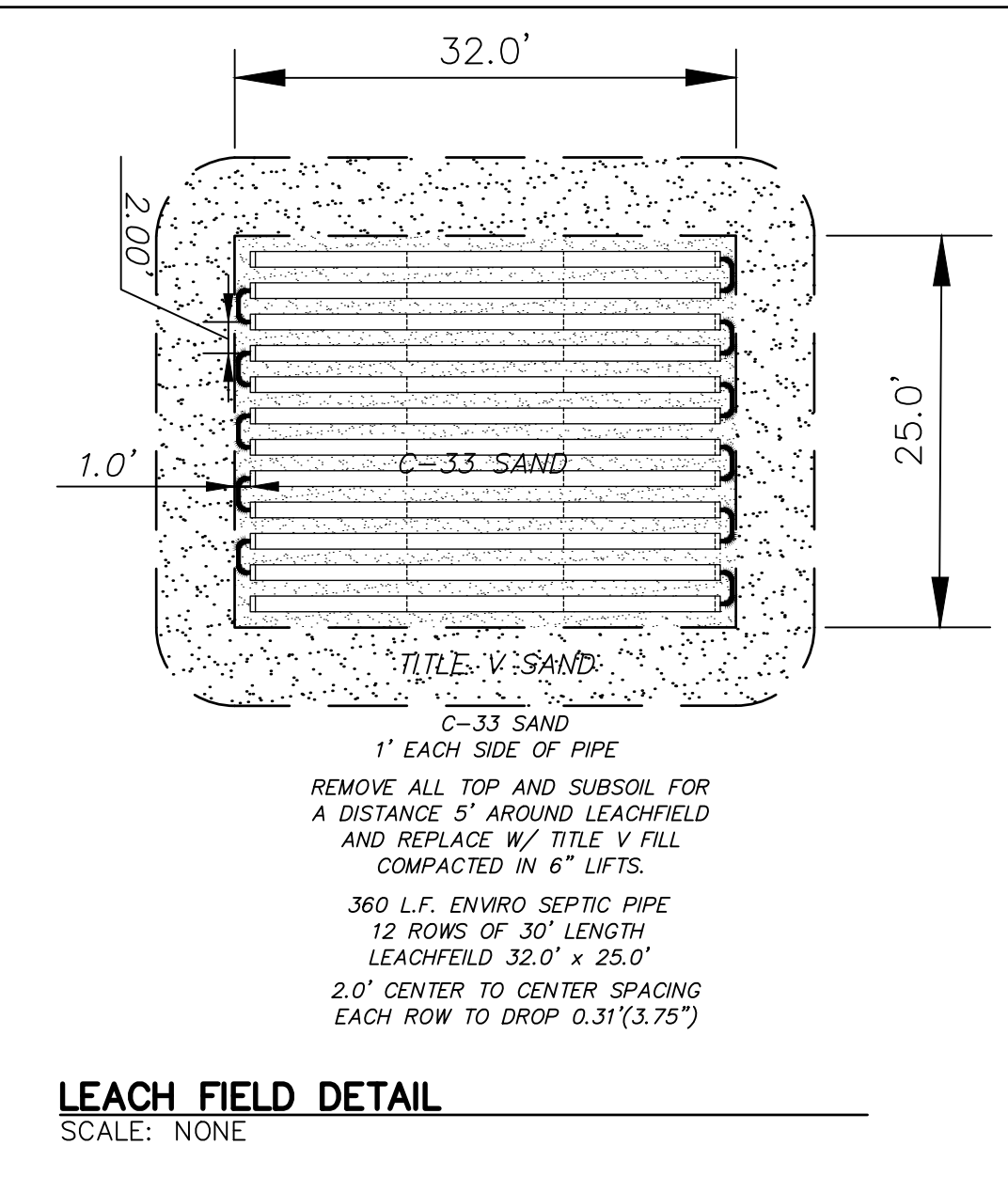


- ### GENERAL NOTES
- ALL CHANGES TO THIS PLAN MUST BE APPROVED BY THE TOWN OF CHARLTON BOARD OF HEALTH
  - ALL SITE WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH TITLE 5
  - ANY CONDITIONS DURING CONSTRUCTION THAT DIFFER FROM THOSE ENCOUNTERED DURING TESTING SHALL BE REPORTED TO DC ENGINEERING AND THE LOCAL BOARD OF HEALTH IMMEDIATELY.
  - REMOVE ALL TOPSOIL & SUBSOIL FOR A DISTANCE OF 5 FEET AROUND SYSTEM
  - 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).
  - OFFSETS ARE NOT TO BE USED FOR THE REPRODUCTION OF PROPERTY LINES.
  - ALL ELEVATIONS REFER TO AN ASSUMED DATUM.
  - NO ADDITIONAL CAPACITY HAS BEEN PROVIDED FOR A GARBAGE DISPOSAL (NOT ALLOWED)
  - NO ADDITIONAL CAPACITY HAS BEEN PROVIDED FOR A WATER SOFTNER (NOT ALLOWED)
  - THE PROPOSED SITE IS SUBJECT TO THE WETLANDS PROTECTION ACT.**
  - THE PROPOSED PROJECT DOES NOT FALL WITHIN A FLOOD HAZARD ZONE.
  - THE SEPTIC TANK SHOULD BE INSPECTED AND PUMPED EVERY 2 YEARS.
  - 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.
  - 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.
  - INSPECTIONS REQUIRED FOR ASBUILT CERTIFICATION \* SEE ASBUILT NOTE \*
    - BOTTOM INSPECTION PRIOR TO THE INSTALLATION OF SEWER GRAVEL.
    - ALL COMPONENTS OF SEPTIC SYSTEM MUST BE COMPLETE AND VISIBLE PRIOR TO REQUESTING A FINAL INSPECTION
  - DIG SAFE TO NOTIFIED PRIOR TO CONSTRUCTION AT 1-888-DIGSAFE.
  - INSTALL MAGNETIC TAPE OVER ALL SYSTEM COMPONENTS, TANK, D-BOX, LEACH AREA.
  - 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: TOM PURCELL	
DATE: 10/3/2019	
I	K
DEPTH: 42"	40"
FIELD RATE: 36 MPI	34 MPI
DESIGN RATE: 40 MPI	40 MPI
SOIL CLASSIFICATION: 2	2
L.T.A.R.	0.25 0.25



ROW	MAX EG	MIN EG	INVERT BOT. ELEV	INVERT BOT. ELEV	INVERT BOT. ELEV
(ROW 1)	522.00	518.50	524.00 (ROW 1)	523.00 (ROW 1)	523.67 (ROW 1)
	- 3.50'	= 515.00	519.56 (ROW 1)	519.06 (ROW 1)	
	+ 4.00'				
	BOT EL(MIN.)= 522.50	BOT EL(MIN.)= 519.00			



**PUMP CALCULATIONS**  
SCALE: NONE  
Metal Garden Stake (Fnd.)  
Edge of Ex. Wetland

**JASON D. DUBOIS, P.E.**  
PROFESSIONAL ENGINEER  
M.A.L.C. NO. 4824

**JEREMY S. CROTEAU, P.L.S.**  
PROFESSIONAL LAND SURVEYOR  
M.A.L.C. NO. 4822

**JAMES ERARA**  
30 SUTTON ROAD  
WEBSTER, MA 01570

**SEPTIC SYSTEM PLAN**  
SITE ADDRESS: 0 PUMPKIN LANE (ASSESSORS 61B - C 12.13)  
CHARLTON, MA

DATE: 3-16-2020  
PROJECT #: 19-234

SCALE: 1"=20'  
DWG. NO.: S-1

NO. DATE REVISION  
1 4-21-20 ADDED WETLAND FLAG 6.1,6.2,6.3

508-769-6660  
508-341-2127

**DOC**  
DESIGN CONSULTANTS