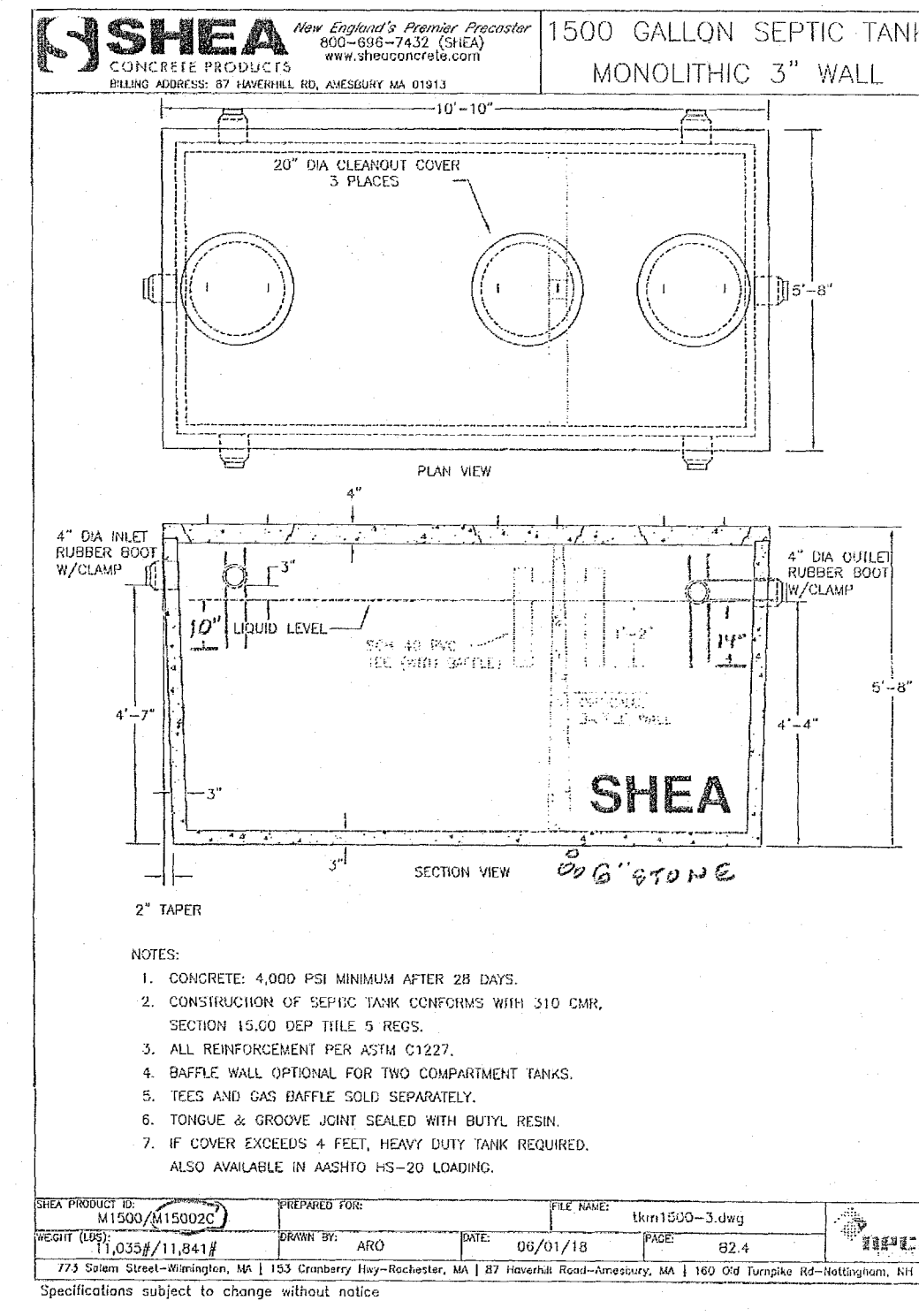
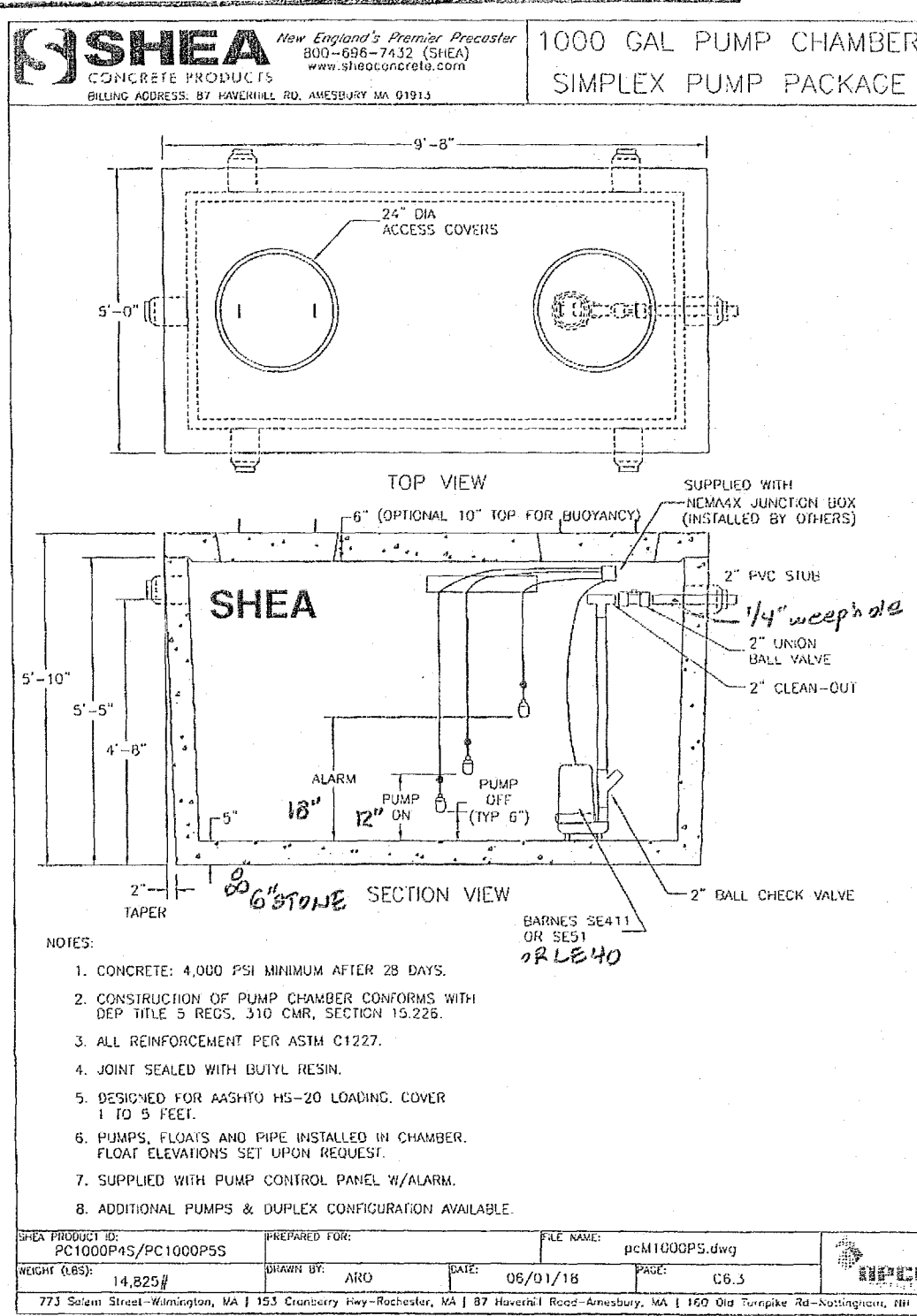
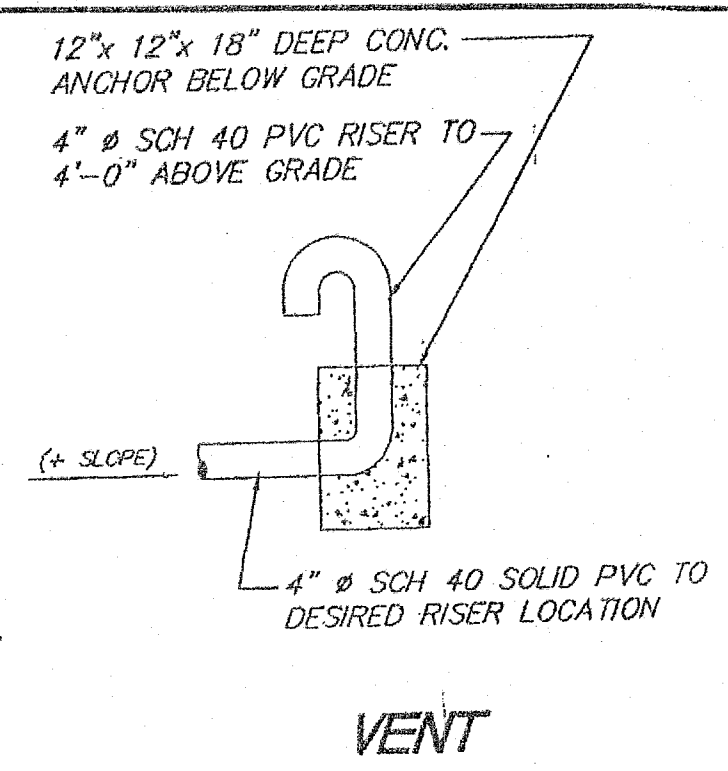
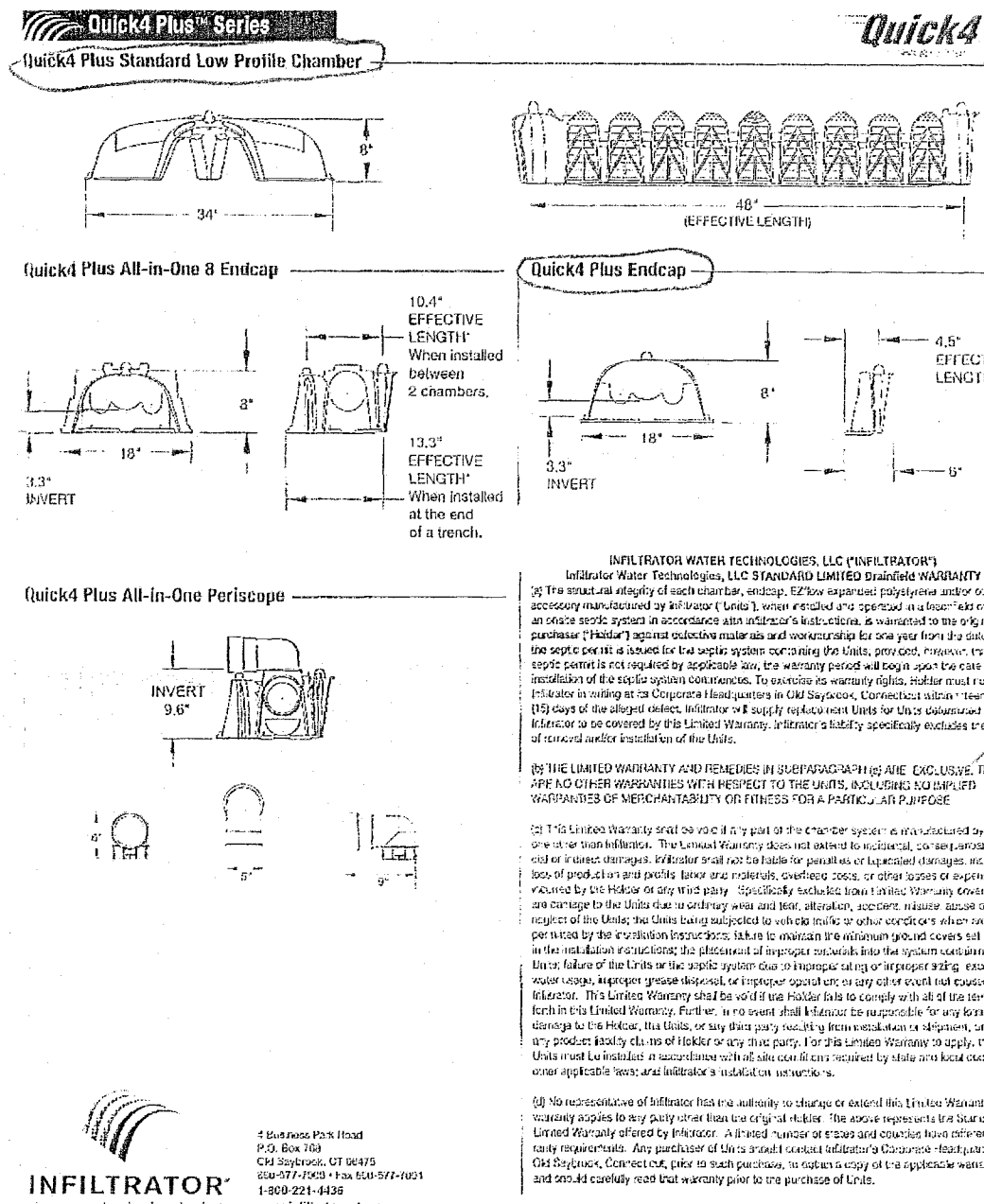
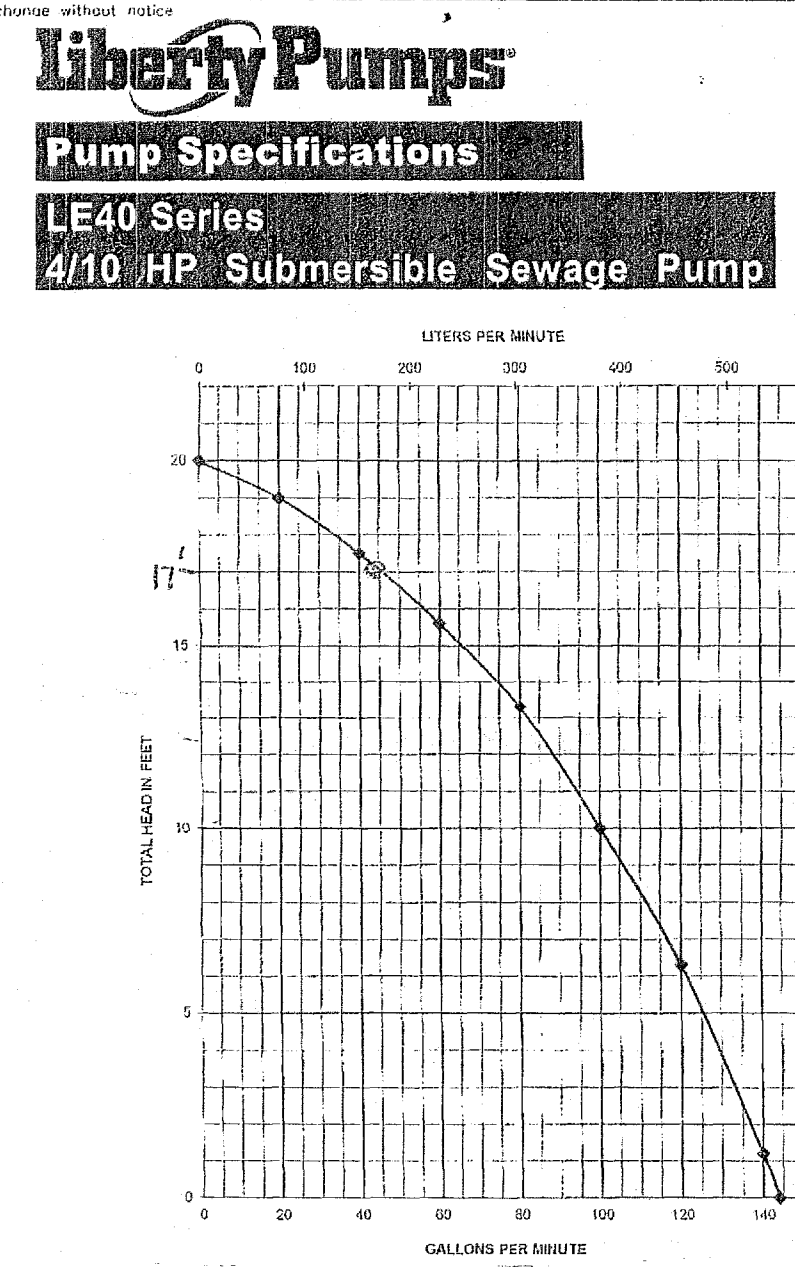
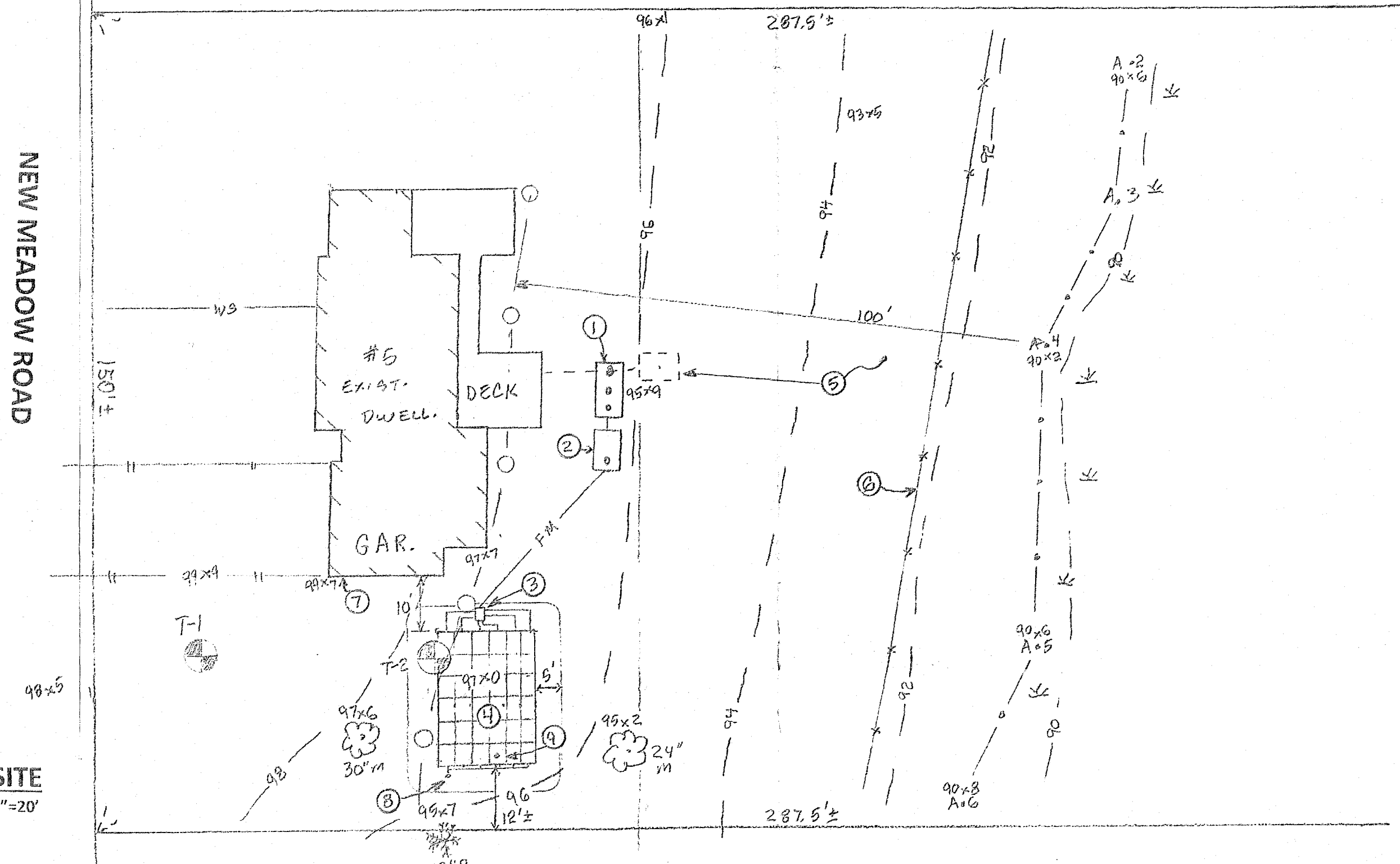


- LEGEND:**
- EXISTING 72.3
 - PROPOSED 71.7
 - SURFACE CONTOUR
 - SPOT ELEVATION
 - DEEP SOIL OBSERVATION TEST
 - PERCOLATION TEST
 - PROMINENT TREE, DIA. & SPECIES
 - ELEVATION BENCH MARK & NO.
 - WATER SERVICE



- NOTES:**
- UNLESS OTHERWISE SPECIFIED, SYSTEM CONSTRUCTION SHALL CONFORM TO TITLE 5 OF THE STATE ENVIRONMENTAL CODE OR LOCAL BOARD OF HEALTH REGULATIONS, WHICHEVER IS MORE STRINGENT.
 - ALL WORK ON LINES, GRADES AND DETAILS SHALL BE DONE BY A LICENSED DISPOSAL WORKS INSTALLER.
 - ANY INTENDED REVISION OF PROPOSED ELEVATIONS AND/OR HORIZONTAL LOCATIONS AS SHOWN SHALL BE APPROVED BY THE ENGINEER AND HEALTH AGENT PRIOR TO IMPLEMENTATION.
 - PROPERTY LINES SHOWN ARE APPROXIMATE. REFERENCE PLAN IS BOOK 96, PLAN 18, LOT 24.
 - THE CONTRACTOR SHALL NOTIFY THE PROPER INSPECTORS AND ALLOW SUCH TIME AS REQUIRED FOR INSPECTIONS.
 - SAFETY MEASURES, DAY-TO-DAY CONTROL OF WORK AND CONSTRUCTION METHODS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE ISSUANCE OF A PERMIT TO CONSTRUCT OR A CERTIFICATE OF COMPLIANCE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE DISPOSAL SYSTEM WILL FUNCTION SATISFACTORILY.
 - THE CONTRACTOR SHALL NOTIFY "DIG-SAFE" AT 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ALL PIPE JOINTS SHALL BE MADE WATERTIGHT PER 222(3) & (4).
 - THE BUILDING SEWER SHALL BE LAID ON A COMPACTED FIRM BASE PER 222(5). THE BUILDING SEWER SHALL BE LAID ON A CONTINUOUS GRADE IN A STRAIGHT LINE PER 222(7).
 - A 24" CHILDPROOF RISER/MANHOLE WITHIN 6" OF FINAL GRADE SHALL BE PLACED OVER THE OUTLET END OF THE SEPTIC TANK.
 - IF PLACED IN FILL PROPER COMPACTION IS REQUIRED UNDER COMPONENTS PER 221(2). A SIX INCH CRUSHED STONE BASE IS TO BE PLACED UNDER COMPONENTS.
 - SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX SHALL BE WATERTIGHT PER 221(1).
 - SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX SHALL HAVE A MINIMUM 9" AND MAXIMUM 36" OF COVER PER 221(7) AND 228(1).
 - ALL OUTLETS FROM THE DISTRIBUTION BOX ARE TO BE CONSTRUCTED AT THE SAME ELEVATION PER 232(3)(B), AND LAID LEVEL FOR THE FIRST TWO FEET PER 233(1)(B).
 - FILL MATERIAL SHALL BE COMPRISED OF CLEAN, GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES PER 255(3). MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOILS SHALL NOT BE USED.
 - PROVIDE MINIMUM 0.02FT/FT GRADE SLOPE OVER LEACH SYSTEM PER 240(10).
 - THERE SHALL BE A 3" SPACE BETWEEN TOPS OF TEES AND INSIDE OF TANK PER 227(4). TEES MUST EXTEND 6" ABOVE FLOWLINE PER 227(1). INLET TEE MUST EXTEND 10" BELOW FLOWLINE PER 227(6). OUTLET TEE MUST EXTEND 14" BELOW FLOWLINE PER 227(6). INSTALL ZABEL OUTLET FILTER OR EQUIVALENT ON OUTLET TEE. ANNUAL MAINTENANCE OF THE FILTER IS REQUIRED. TEES MUST EXTEND TO CENTER OF ACCESS PORTS.
 - LEACH SYSTEM SHALL BE BUILT WITH INFILTRATOR CHAMBERS MANUFACTURED BY INFILTRATOR SYSTEMS, INC. APPROVED FOR GENERAL USE UNDER TRANSMITTAL NUMBER 228042 BY THE MASS. DEPARTMENT OF ENVIRONMENTAL PROTECTION. ALL INSTALLATION SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS. AN INSPECTION PORT SHALL BE PROVIDED PER MANUFACTURER'S AND BOARD OF HEALTH REQUIREMENTS.
 - PROVIDE 6 INCH CRUSHED STONE BASE BENEATH SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX.
 - MAGNETIC MARKING TAPE IS TO BE PROVIDED OVER SYSTEM COMPONENTS.
 - THIS PLAN IS DESIGNED IN CONFORMANCE WITH 310CMR 15.00 (TITLE 5).
 - SYSTEM DOES NOT APPEAR TO LIE WITHIN A NITROGEN SENSITIVE AREA AS DESIGNATED BY 310CMR 15.215.
 - THERE ARE NO SURFACE WATER SUPPLIES WITHIN 400', NO PUBLIC WELLS WITHIN 400', AND NO PRIVATE DOMESTIC WELLS WITHIN 125' OF SEPTIC SYSTEM BASED ON VISUAL INSPECTION.
 - THE EXISTING DWELLING IS ASSESSED AS FOUR BEDROOMS. THE DESIGN IS FOR FOUR BEDROOMS.
 - PUMP ALARM SHALL BE ON A SEPARATE CIRCUIT.



DESIGN CRITERIA

Building Use: single family dwelling
 Number of Bedrooms: 4 Design No. of People: 8
 Design Flow: 110 gpd/bdrm. Total Daily Flow: 440 gals.
 No Garbage Grinder Allowed
 Design Percolation Rate: sieve analysis
 Leach Area Requirements: 0.66gals/sf
 Total Area Required: 667 S.F.
 Total Area Provided: 709 S.F.
 4.73 SF/LF x 25' x 6' = 709 S.F.

Soil Data
 4/22/13
 Witness: Leo Cormier
 By: Joseph J. Serwatka, P.E.

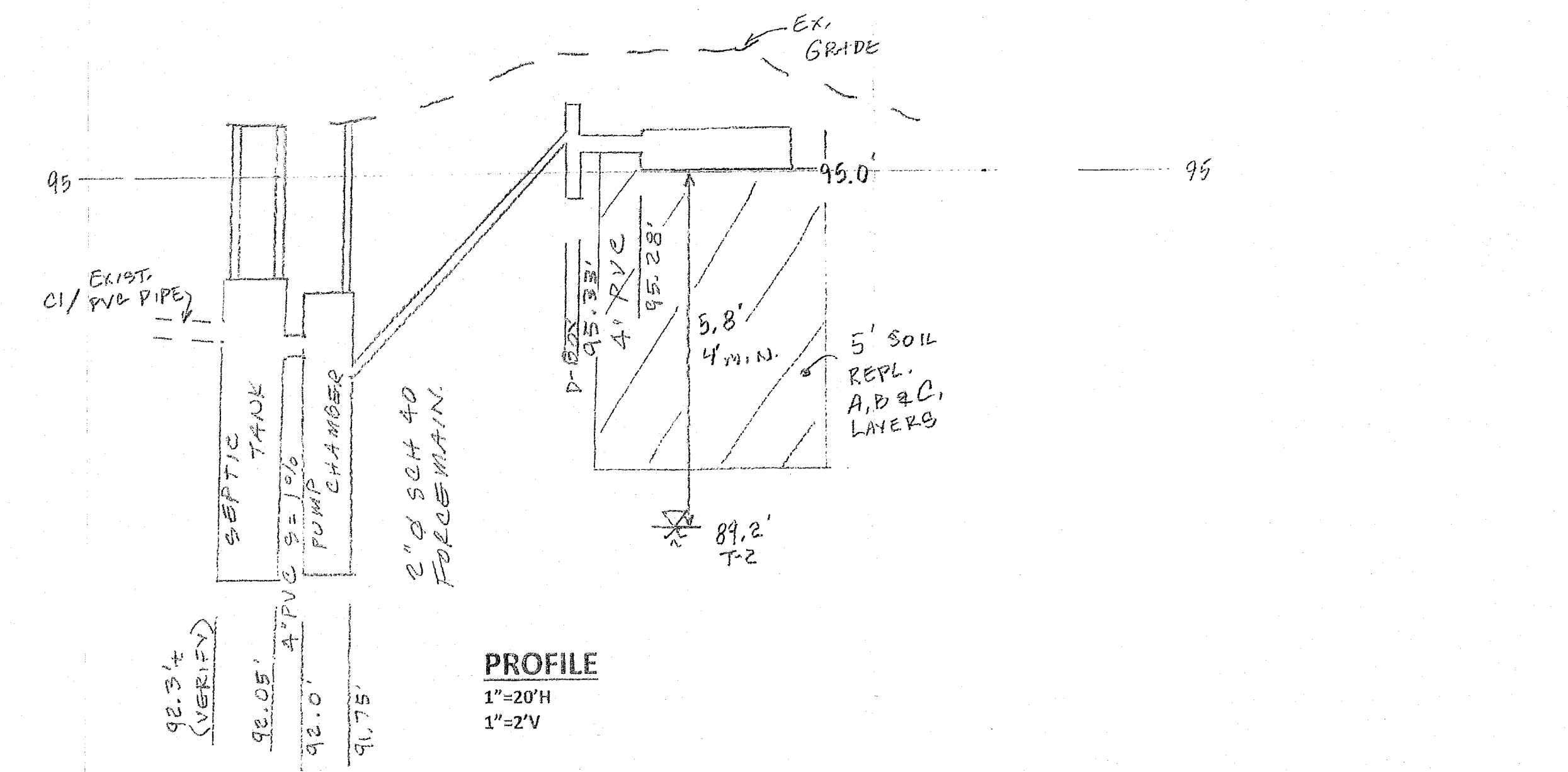
T-1 (99.0')
 0-16", Ap, fs, 10YR3/2
 16-24", Bw, fs, 10YR5/6
 24-86", C, sl, 2.5Y5/4
 e.s.h.w.l. - 100"

T-2 (97.5')
 0-24", Ap, fs, 10YR3/2
 24-36", Bw, fs, 10YR5/6
 36-90", Cl, sl, 2.5Y5/4
 90-102", C2, msand, 10YR5/6
 e.s.h.w.l. - 100"

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.

Pump Calcs:
 Static head: 8' dynamic head: 9' TDH: 17'
 Pump operates at 40GPM at 17TDH
 4 doses per day at 110gal/dose, 24hours storage

Joseph J. Serwatka, P.E.
 Post Office Box 1016
 North Andover, MA 01845
 978-314-8731



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 the attached soil evaluation form, are accurate and in accordance with 310 CMR 15.000 through 15.107.

Certified Soil Evaluator
 Date: 6-13-22

NO.	BY	APP.	DATE	REVISION DESCRIPTION

DESIGN: **SEWAGE DISPOSAL SYSTEM**

DRAWN: **SITE PLAN AND PROFILE**

CHECKED:

SCALE: AS SHOWN

DATE:

NO. 5 NEW MEADOW ROAD (map 32, lot 664)
 LYNNFIELD, MA

PREPARED FOR: SHARKEY

SHEET 1 OF

JOB NO.

JonWhyman@Icloud.com