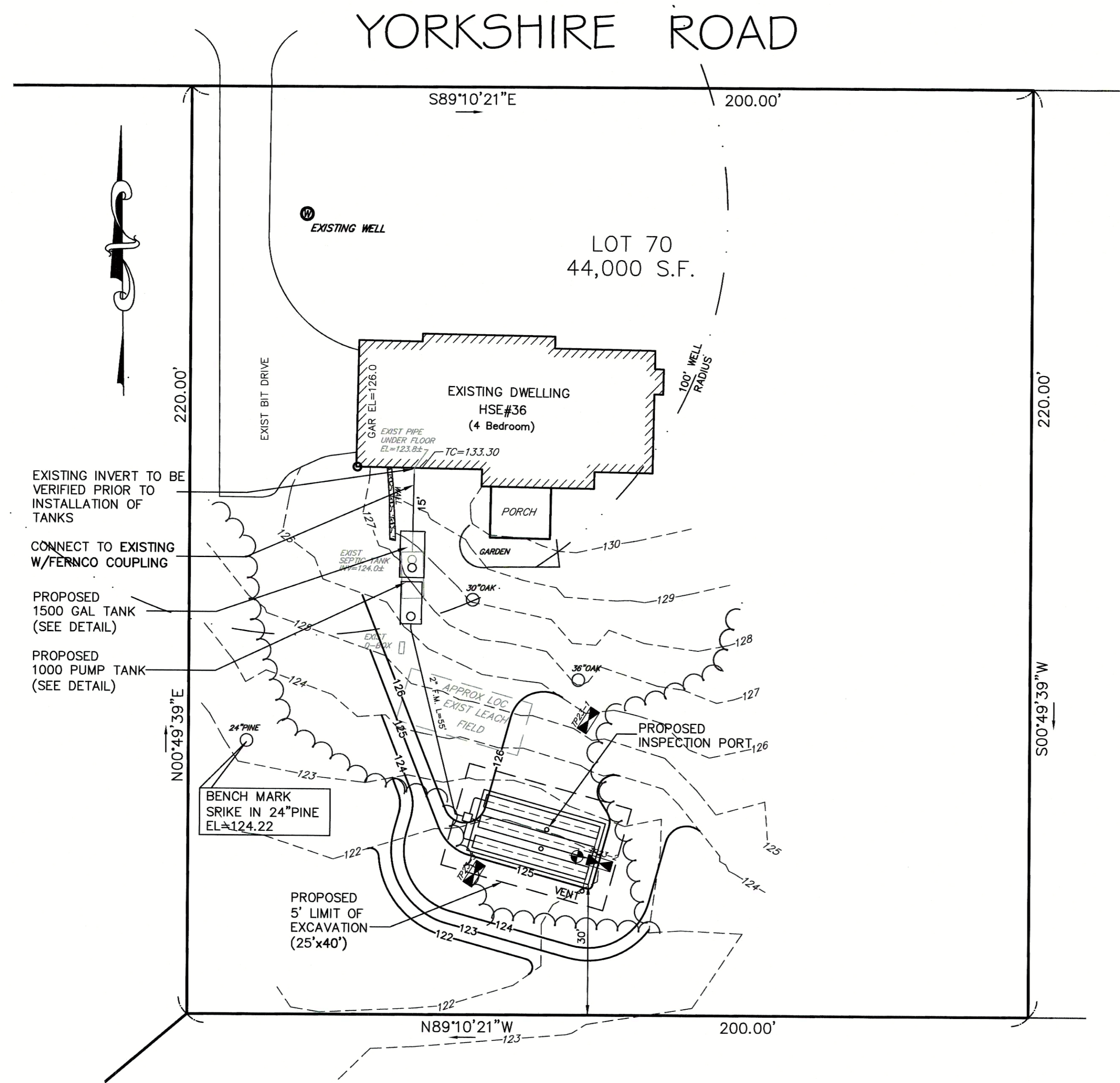


LOCUS MAP
N.T.S.



Deed Restrictions Required:

1. Notice of an alternative system subject to DEP's "Remedial Use Approval" revised thru March 30, 2022 (prior to C.O.C.)

ASSESSOR'S REFERENCE:

PARCEL ID: 9-47-0

***NO GARBAGE GRINDER ALLOWED UPGRADE**

TYPE OF FACILITY SERVED:

SINGLE FAMILY DWELLING - 4 BEDROOMS
DESIGN FLOW :
4 BEDROOMS x 110 GAL./DAY/BEDROOM = 440 G.P.D.

SEPTIC TANK SIZING:

DESIGN FLOW x 200%
440 GAL. x 200% = 880 GALLONS
SEPTIC TANK PROPOSED: 1500 GALLON 2-COMPARTMENT

SYSTEM SIZING CALCULATIONS:

GARBAGE GRINDER: NO
DESIGN FLOW = 440 GPD
EFFLUENT LOADING RATE = 0.74 GPD/SF (2.0 MPI)
LEACHING AREA REQUIRED = 440 GPD/0.74 GPD/SF = 595 SF

ELJEN GSF A42 SYSTEM DESIGN (TRENCH)

LEACHING AREA REQUIRED: 357 S.F. (B43 Bed Sizing)

NUMBER OF B43 MODULES REQUIRED: 20 MODULES

LEACHING AREA PROVIDED:

USE 3 ROWS 7 MODULES/ROW = 21 MODULES

BOTTOM AREA PROVIDED:

30'L x 15'W = 450 S.F.

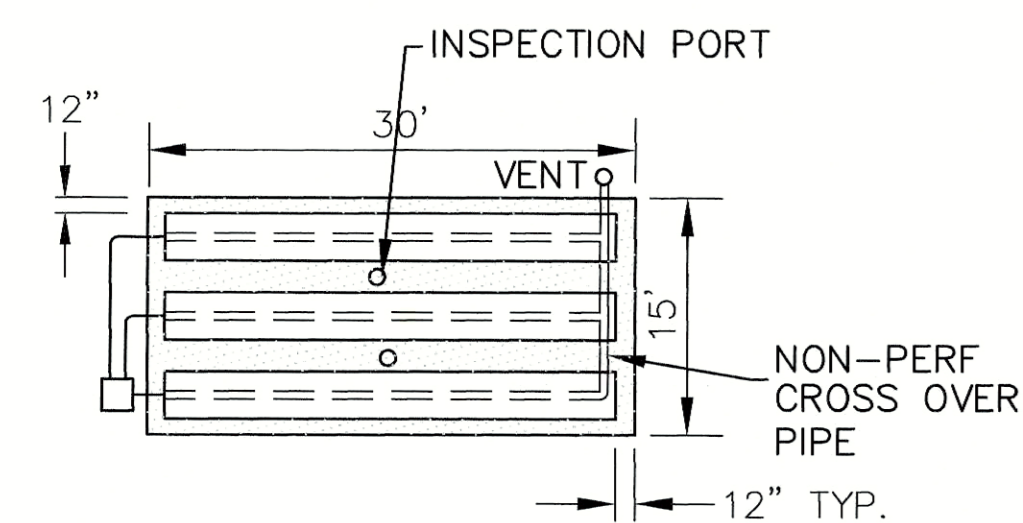
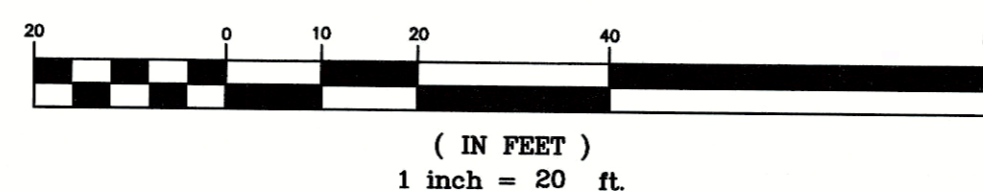
LEGEND

---158---	EXISTING CONTOUR ELEVATION
---168---	PROPOSED CONTOUR ELEVATION
⊕	DEEP TEST SOIL PIT
⊕	PERCOLATION TEST
153.0	PROPOSED SPOT ELEVATION

-NO PUBLIC WELLS WITHIN 400 FEET EXCEPT AS SHOWN.
 -NO PRIVATE WELLS WITHIN 200 FEET EXCEPT AS SHOWN.
 -NO WETLANDS, INLAND BANKS, OR SURFACE WATERS WITHIN 150 FEET EXCEPT AS SHOWN.
 -NO SURFACE WATER SUPPLIES WITHIN 400 FEET EXCEPT AS SHOWN.
 -NO SURFACE DRAINS EXCEPT AS SHOWN.
 -NO SURFACE OR SUBSURFACE DRAINS WHICH INTERCEPT GROUND WATER EXCEPT AS SHOWN.
 -LOCATION OF FLOODWAY SHOWN IF ANY.
 -NO 100 YEAR FLOOD LIMIT, EXCEPT IF SHOWN.
 -SITE IS NOT WITHIN A NITROGEN SENSITIVE AREA.
 IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT AND OR CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. ALL UTILITIES WITHIN A BUILDING SHALL BE REVIEWED BY THE APPROPRIATE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY INTERIOR OR EXTERIOR WORK. DIG SAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION (1-888-344-7233)

ZONE	MIN. FRONTYARD	MIN. SIDEYARD	MIN. REARYARD
------	----------------	---------------	---------------

GRAPHIC SCALE



ELJEN GSF MODULE B43
BED CONFIGURATION
3 ROWS - 7 MODULES/ROW

PERCOLATION TEST RESULTS			
TEST HOLE - 23-2	TEST HOLE - 26-46*	TEST HOLE - 23-2	TEST HOLE - 26-46*
DATE: 9/13/23	DATE: 9/13/23	DATE: 9/13/23	DATE: 9/13/23
DEPTH: 26-46"	DEPTH: 26-46"	DEPTH: 26-46"	DEPTH: 26-46"
SOAK	9:28	SOAK	9:28
12"	9:43	12"	9:43
11"	11"	11"	11"
10"	10"	10"	10"
9"	9:45	9"	9:45
7"	7"	7"	7"
6"	9:47	6"	9:47
RATE: 2.0 M.P.I.		RATE: 2.0 M.P.I.	

DEEP OBSERVATION HOLE LOGS

DEEP HOLE - 23-1				DEEP HOLE - 23-2				DEEP HOLE - 23-3			
HORIZ DEPTH	DATE: 9/13/23	SOIL DESCRIPTION	ELEV.	HORIZ DEPTH	DATE: 9/13/23	SOIL DESCRIPTION	ELEV.	HORIZ DEPTH	DATE: 9/13/23	SOIL DESCRIPTION	ELEV.
0"		A LOAM 10R5/2	125.5	0"		A LOAM 10R5/2	122.0	0"		A LOAM 10R5/2	121.6
8"		Bw SANDY LOAM 10R5/2	123.3	8"		Bw SANDY LOAM 10R5/2	119.8	8"		Bw SANDY LOAM 10R5/2	119.4
26"		C1 SAND Fine Sand 2.9R5/3	122.5	26"		C1 SAND Fine-Med Sand 2.9R5/4	116.6	26"		C1 SAND Fine-Med Sand 2.9R5/4	116.7
37"		C2 SAND Med-Coarse Sand 2.9R5/4	120.8	37"		C2 L.S. Firm Gravel 2.9R5/2	115.0	37"		C2 L.S. Firm Gravel 2.9R5/2	114.9
57"		C3 L.S. Firm Gravel 2.9R5/2	120.0	57"		GROUNDWATER OBSERVED	117.2	57"		GROUNDWATER OBSERVED	116.7
66"		GROUNDWATER MONITORED	121.5	66"		SOIL MOTTLING	119.8	66"		SOIL MOTTLING	119.4
48"		GROUNDWATER MONITORED	123.3	48"		GROUNDWATER MONITORED	119.8	48"		GROUNDWATER MONITORED	119.4
26"		ESTIMATED SEASONAL HIGH GROUNDWATER	123.3	26"		ESTIMATED SEASONAL HIGH GROUNDWATER	119.8	26"		ESTIMATED SEASONAL HIGH GROUNDWATER	119.4

CERTIFIED SOIL EVALUATOR: ROBERT TRUAX, SE#2476
WITNESSED BY B.O.H. AGENT: JASON BELMONT
DESIGN PERCOLATION RATE: 2.0 M.P.I. CLASS I

Soil Evaluator Certification: I certify that I am currently approved by the D.E.P. 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 are accurate and in accordance with 310 CMR 15.100 through 15.107.

GENERAL CONSTRUCTION NOTES:

1. THE DETAILS SHOWN ARE GENERAL IN NATURE AND ARE NOT INTENDED TO SHOW EVERY POSSIBLE INSTALLATION REQUIREMENT. THE CONTRACTOR SHALL BE KNOWLEDGABLE IN THE REFERENCED CODES, INSTALLATION REQUIREMENTS AND PROVIDE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO INSTALL A FUNCTIONAL SYSTEM.
2. COMPONENTS SHALL NOT TO BE BACKFILLED OR CONCEALED WITHOUT INSPECTION BY AND PERMISSION FROM BOARD OF HEALTH.
3. IT IS THE RESPONSIBILITY OF THE APPLICANT TO OBTAIN THE SERVICES OF THE DESIGN ENGINEER TO PROVIDE PROPER INSPECTIONS FOR CERTIFICATIONS AND AS-BUILT PLANS.
4. INSTALLER REQUIRED TO PROVIDE PROPER CERTIFICATION.
5. LEACHING AREA TO BE FLAGGED FOR PROTECTION UNTIL CERTIFICATE OF COMPLIANCE IS OBTAINED.
6. NO STOCKPILING OF MATERIALS OVER SYSTEM.
7. NO TRAFFIC OR PARKING OVER SYSTEM.
8. BOTTOM AND SIDES OF EXCAVATION AREA SHALL BE SCARIFIED.
9. PLACEMENT OF FILL SHALL BE DONE BY STOCKPILING AT THE EDGE OF THE EXCAVATION AREA AND PUSHED OR CAST IN PLACE.
10. FILL SHALL NOT BE PLACED IN THE EXCAVATION AREA DURING RAIN OR SNOW STORM.
11. IF ANY FILL IS TO BE PLACED BELOW THE WATER TABLE, DEWATERING IS REQUIRED PRIOR TO PLACEMENT.

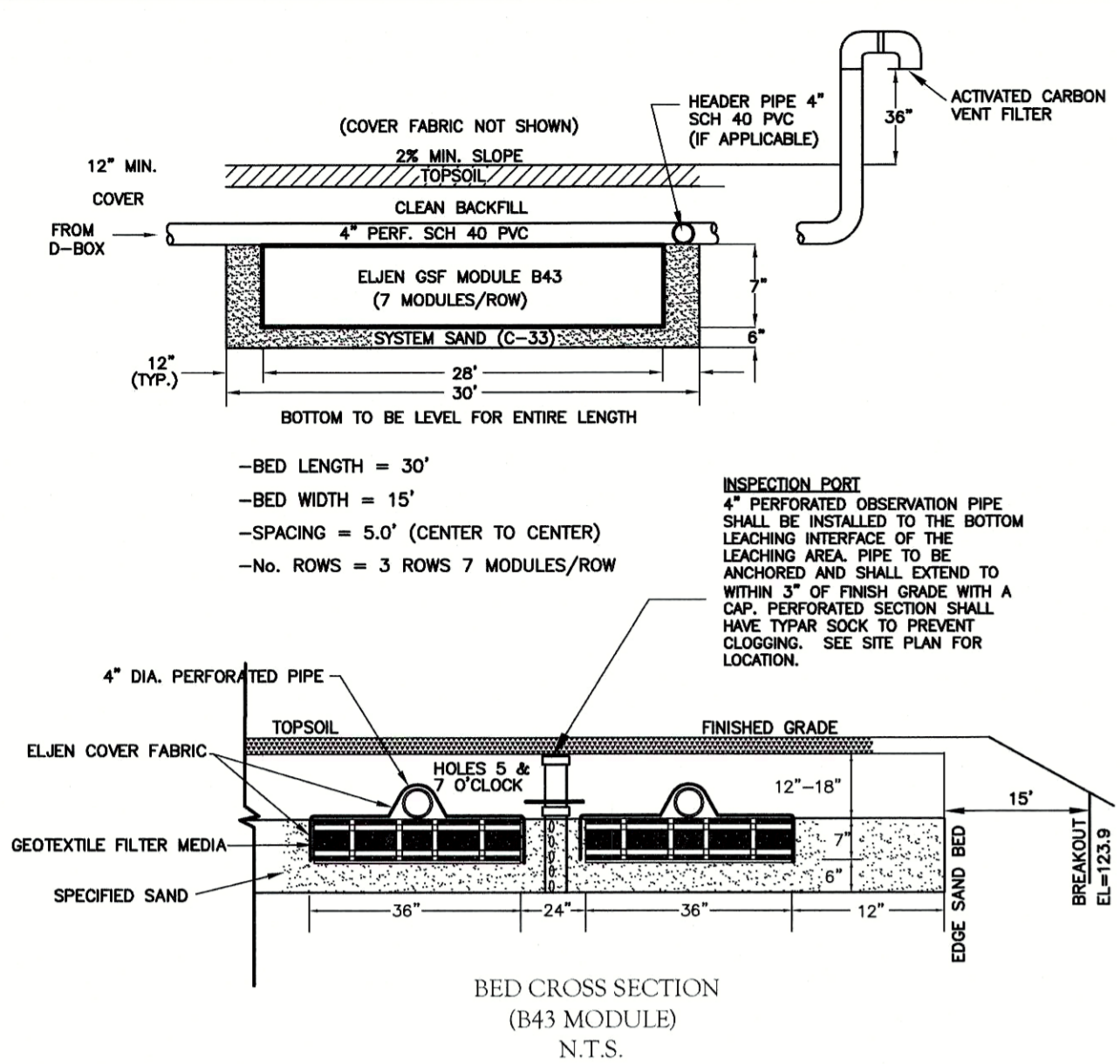
TO ENSURE THE PERFORMANCE OF THE SYSTEM, MAINTENANCE SHOULD BE PERFORMED ANNUALLY BY A LICENSED SEWAGE PUMPING CONTRACTOR.

GLM ENGINEERING CONSULTANTS, INC. WILL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THIS SYSTEM UNLESS CONSTRUCTED AND INSPECTED IN ACCORDANCE WITH THIS PLAN. INSPECTIONS TO BE DONE AFTER EXCAVATION FOR SYSTEM AND AFTER CONSTRUCTION, BUT PRIOR TO BACKFILLING. ANY ALTERATION MUST BE APPROVED IN WRITING BY GLM ENGINEERING CONSULTANTS, INC.

5' LIMIT OF EXCAVATION (25' x 40')
ALL TOPSOIL, SUBSOIL AND ANY DELETERIOUS MATERIAL MUST BE REMOVED FROM THE AREA OF THE SYSTEM AND OTHER DESIGNATED LIMITS AND FILLED WITH APPROVED, CLEAN, GRANULAR SAND. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES AND BE GRADED SO NOT MORE THAN 45% OF THE SAMPLE IS RETAINED IN A #4 SIEVE, OF THAT PASSING, 20% OR LESS SHALL PASS A #100 SIEVE AND 5% OR LESS SHALL PASS THE #200 SIEVE. NOT MORE THAN 90% SHALL BE RETAINED ON THE #50 SIEVE. SAMPLE FOR SIEVE ANALYSIS TO BE TAKEN FROM SAMPLE IN PLACE.

ALL CONSTRUCTION & COMPONENTS SHALL CONFORM TO THE LATEST REQUIREMENTS OF 310 CMR 15.000 TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND THE TOWN OF DOVER BOARD OF HEALTH REGULATIONS.

BENCH MARK (DATUM = ASSUMED) SPIKE SET IN 24" PINE: EL=124.22	
PROPOSED SEWAGE DISPOSAL SYSTEM 36 YORKSHIRE ROAD DOVER, MASSACHUSETTS	
OWNER:	MAUREEN CARTER 36 YORKSHIRE ROAD DOVER, MA
DATE:	JANUARY 4, 2024
REVISED:	
GLM Engineering Consultants, Inc. 19 EXCHANGE STREET HOLLISTON, MA 01746 P: 508-429-1100 F: 508-429-7160 www.GLMengineering.com	
DES: RST	SCALE: 1" = 20' JOB #17,545 SHEET #1 of 2
PROFESSIONAL CIVIL ENGINEER 36 YORKSHIRE ROAD	

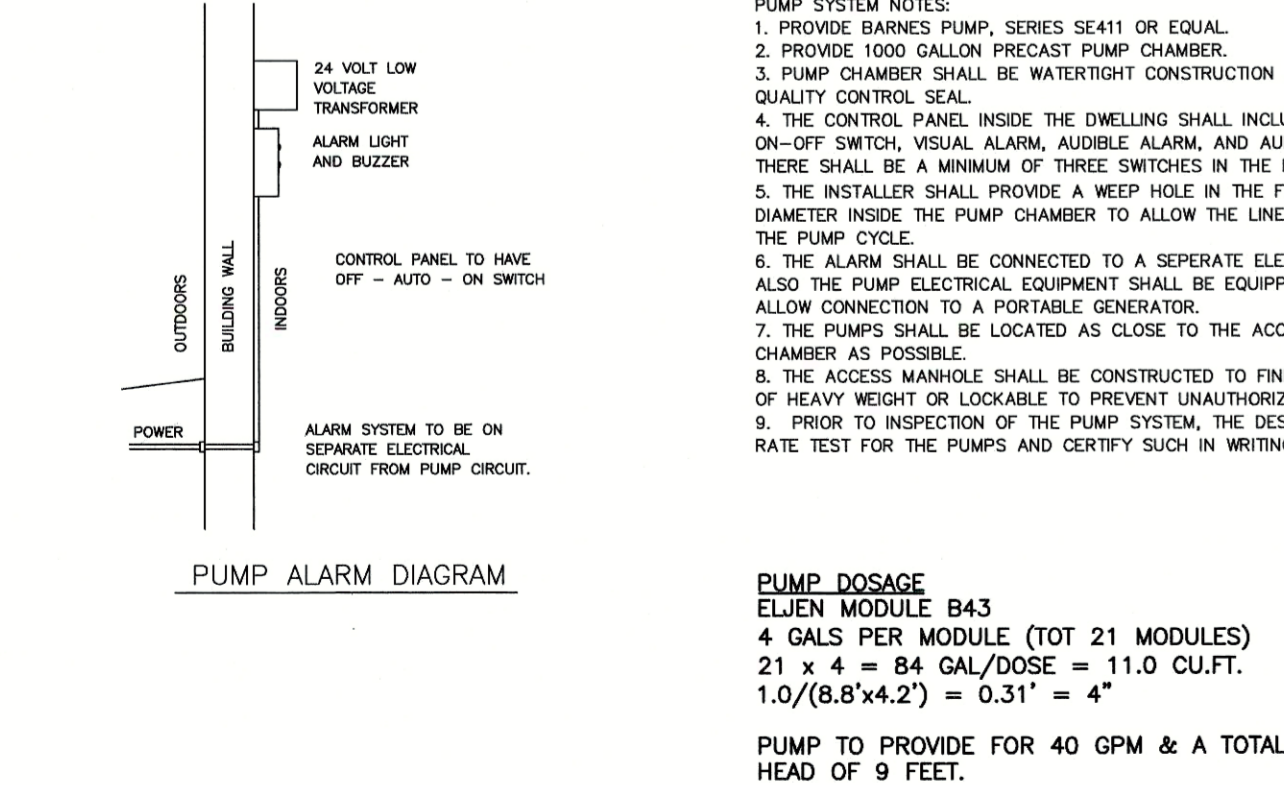


ELJEN COVER FABRIC MUST BE SUPPLIED BY ELJEN CORP. ALTERNATIVE FABRICS SHALL NOT BE PERMITTED. CONTRACTOR SHALL PROVIDE PROPER VERIFICATION UPON REQUEST.
 - THE FABRIC COVERS THE TOP AND SIDES OF THE GEM ALONG THE ENTIRE LENGTH OF EACH ROW.

CERTIFIED DESIGNER OF ELJEN GSF:
 ROBERT S. TRUAX
 CERT. No.: 3764

ELJEN CORP.
 GEOTEXTILE SAND FILTER (GSF)

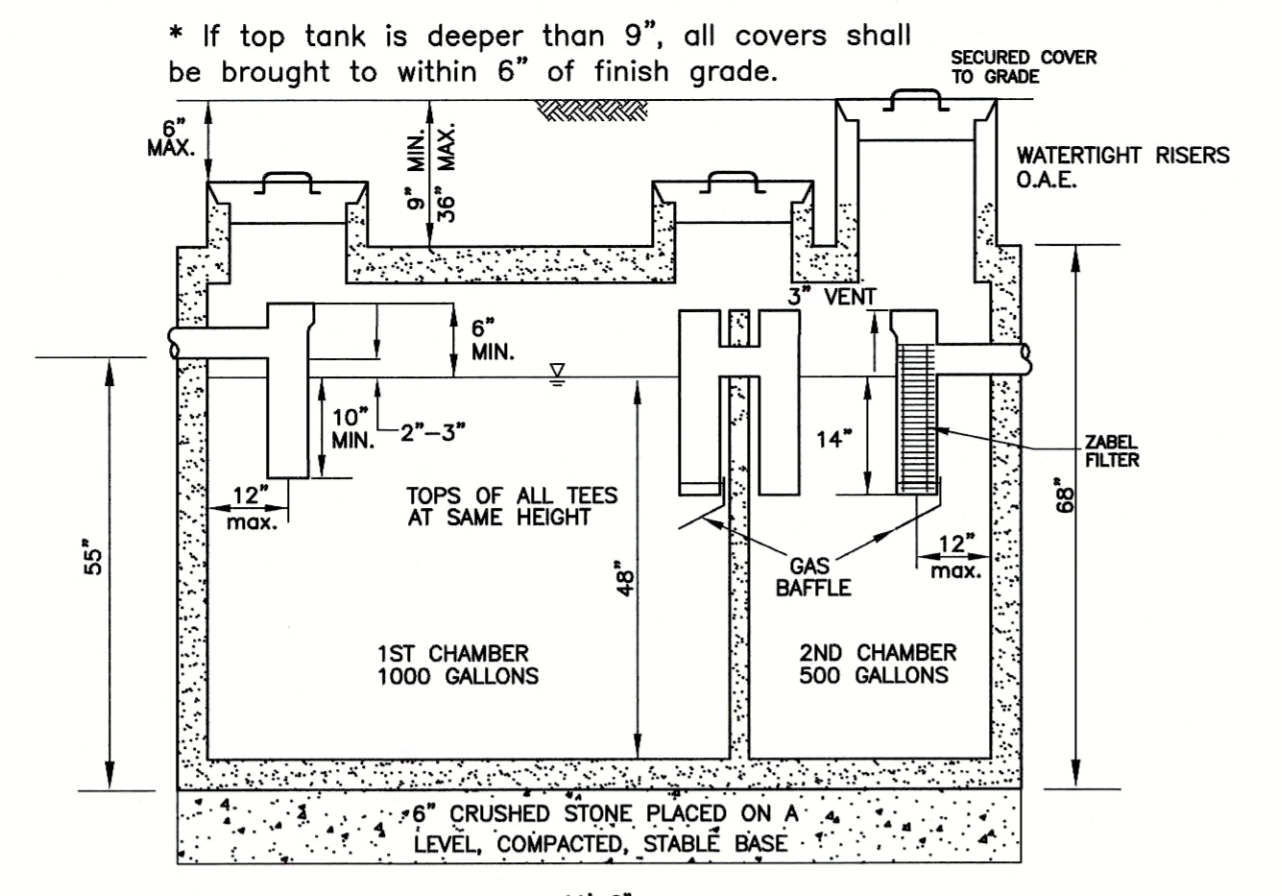
- System to be installed in accordance with product design and installation manual, state and local regulations. For product information or the nearest dealer contact Eljen Corp. 125 McKee Street, East Hartford, CT 06108 - Phone 1-800-444-1359 - www.eljen.com
- Each Installer shall install the System in accordance with Company training on the installation of the System and the conditions of this Certification.
- No Installer shall install the System unless the Installer has been trained by the Company on installation of the System or the installation is overseen by a Company representative(s).
- Prior to construction, the system installer must certify in writing to the Designer, the local approving authority and the system owner that (s)he is a locally approved System Installer. The System Installer shall certify the (s)he has received appropriate training by Eljen or the System Installer shall identify the Eljen trained representative who will oversee the installation.
- Installers shall complete the System Installation Form and forward a copy to the Company and the local approving authority.
- The System installer shall provide the System owner and the local approving authority with a bill of lading certifying that the sand fill meets ASTM C-33.
- System sand shall meet ASTM C-33 with less than 10% passing the #100 sieve and less than 5% passing the #200 sieve.
- Surrounding sand (5' limit of excavation) shall be system sand (ASTM C-33) or Title 5 fill, 310CMR 15.255(3).
- The System shall not be required to be inspected at any greater frequency than would be required if the facility was served by a conventional system per Title 5, unless in accordance with any DEP, Designer or local requirements or recommendations.
- Prior to the issuance of a Certificate of Compliance for the System, the System owner shall record and/or register in the appropriate Registry of Deeds and/or Land Registration Office, a Notice disclosing both the existence of the alternative septic system subject to this Approval on the property and the Department's approval of the System. If the property subject to the Notice is unregistered land, the Notice shall be marginally referenced on the owner's deed to the property. Within 30 days of recording and/or registering the Notice, the System owner shall submit the following to the local approving authority: (i) a certified Registry copy of the Notice bearing the book and page/instrument number and/or document number; and (ii) if the property is unregistered land, a Registry copy of the owner's deed to the property, bearing the marginal reference.



PUMP SYSTEM NOTES:
 1. PROVIDE BARNES PUMP, SERIES SE411 OR EQUAL.
 2. PROVIDE 1000 GALLON PRECAST PUMP CHAMBER.
 3. PUMP CHAMBER SHALL BE WATER TIGHT CONSTRUCTION AND HAVE MANUFACTURERS QUALITY CONTROL SEAL.
 4. THE CONTROL PANEL INSIDE THE DWELLING SHALL INCLUDE A MANUAL ON-OFF, AUTOMATIC ON-OFF SWITCH, VISUAL ALARM, AUDIBLE ALARM, AND AUDIBLE ALARM SILENCER SWITCH. THERE SHALL BE A MINIMUM OF THREE SWITCHES IN THE PUMP CHAMBER.
 5. THE INSTALLER SHALL PROVIDE A WEEP HOLE IN THE FORCE MAIN APPROXIMATELY 3/8" DIAMETER INSIDE THE PUMP CHAMBER TO ALLOW THE LINE TO DRAIN UPON COMPLETION OF THE PUMP CYCLE.
 6. THE ALARM SHALL BE CONNECTED TO A SEPARATE ELECTRICAL CIRCUIT FROM THE PUMP. ALSO THE PUMP ELECTRICAL EQUIPMENT SHALL BE EQUIPPED WITH A TRANSFER SWITCH TO ALLOW CONNECTION TO A PORTABLE GENERATOR.
 7. THE PUMPS SHALL BE LOCATED AS CLOSE TO THE ACCESS MANHOLE OF THE PUMP CHAMBER AS POSSIBLE.
 8. THE ACCESS MANHOLE SHALL BE CONSTRUCTED TO FINISH GRADE WITH A SECURE COVER OF HEAVY WEIGHT OR LOCKABLE TO PREVENT UNAUTHORIZED ACCESS.
 9. PRIOR TO INSPECTION OF THE PUMP SYSTEM, THE DESIGNER SHALL CONDUCT A FLOW RATE TEST FOR THE PUMPS AND CERTIFY SUCH IN WRITING TO THE BOARD OF HEALTH.

PUMP DOSAGE
 ELJEN MODULE B43
 4 GALS PER MODULE (TOT 21 MODULES)
 21 x 4 = 84 GAL/DOSE = 11.0 CU.FT.
 1.0 / (8.8' x 4.2') = 0.31' = 4"

PUMP TO PROVIDE FOR 40 GPM & A TOTAL HEAD OF 9 FEET.

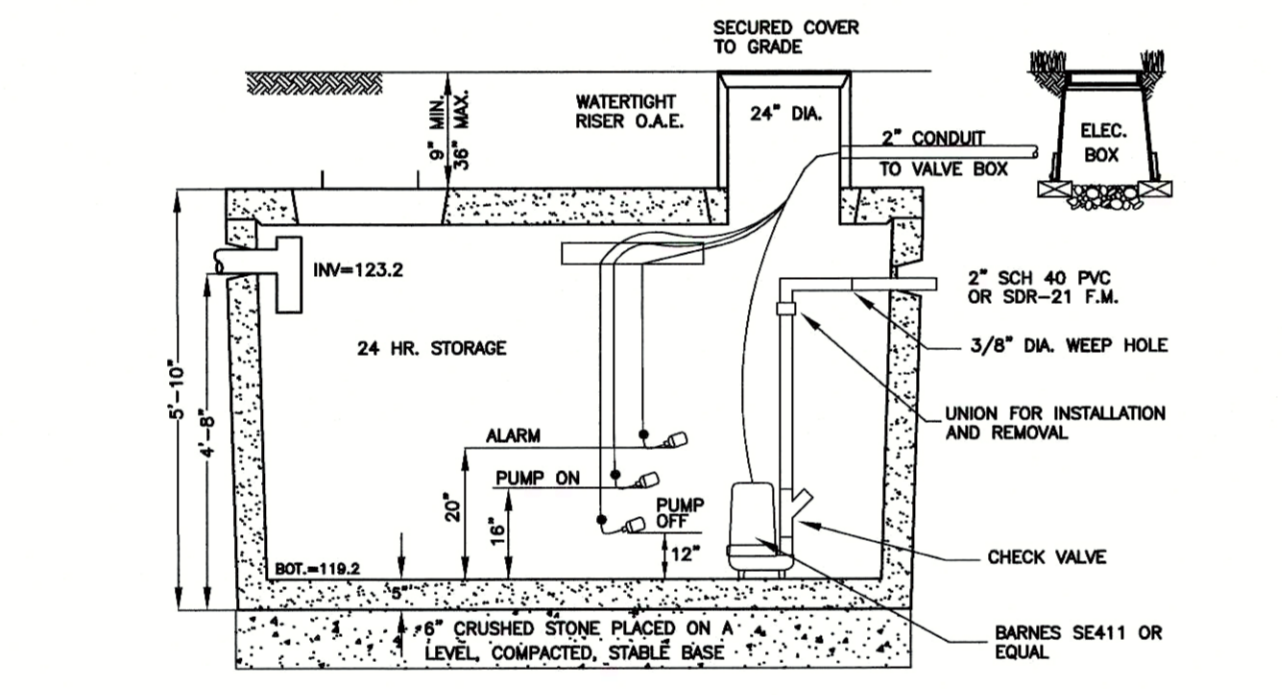


* If top tank is deeper than 9", all covers shall be brought to within 6" of finish grade.

* If top d-box is deeper than 9", provide water tight riser & cover to within 6" of finish grade.

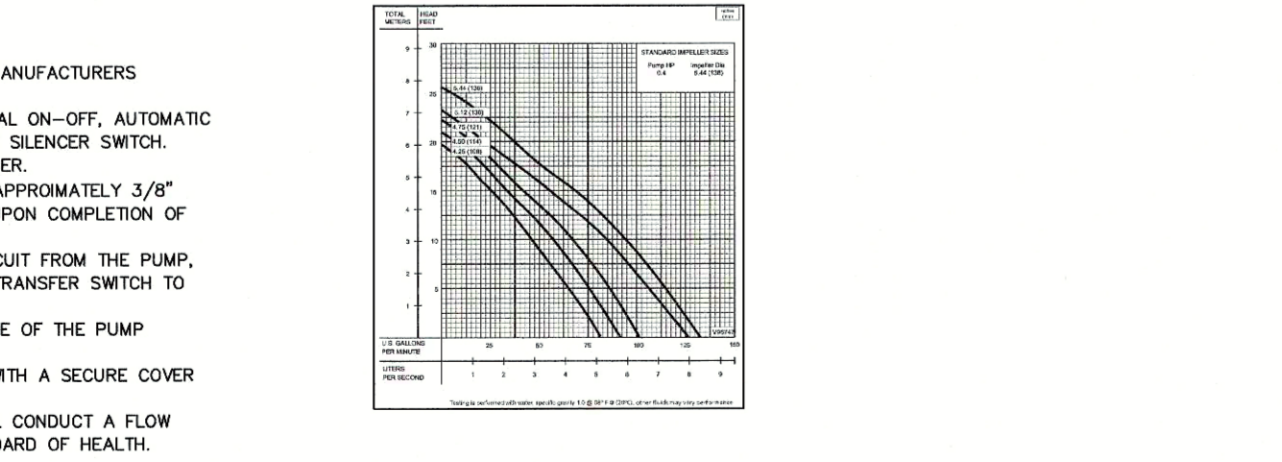
MONOLITHIC
 2-COMPARTMENT PRECAST CONCRETE
 SEPTIC TANK - 1500 GALLONS

-TANK TO HAVE MANUFACTURERS Q/C SEAL
 -WATER TIGHT CONSTRUCTION
 -REQUIRED INLET & OUTLET TEES 6" FLOW LINE
 -ALL PIPING TO BE 4" SCH 40 PVC
 -PROVIDE ZABEL A1800 EFFLUENT FILTER



PUMP CHAMBER - MONOLITHIC
 1000 GALLON
 SIMPLEX PUMP PACKAGE

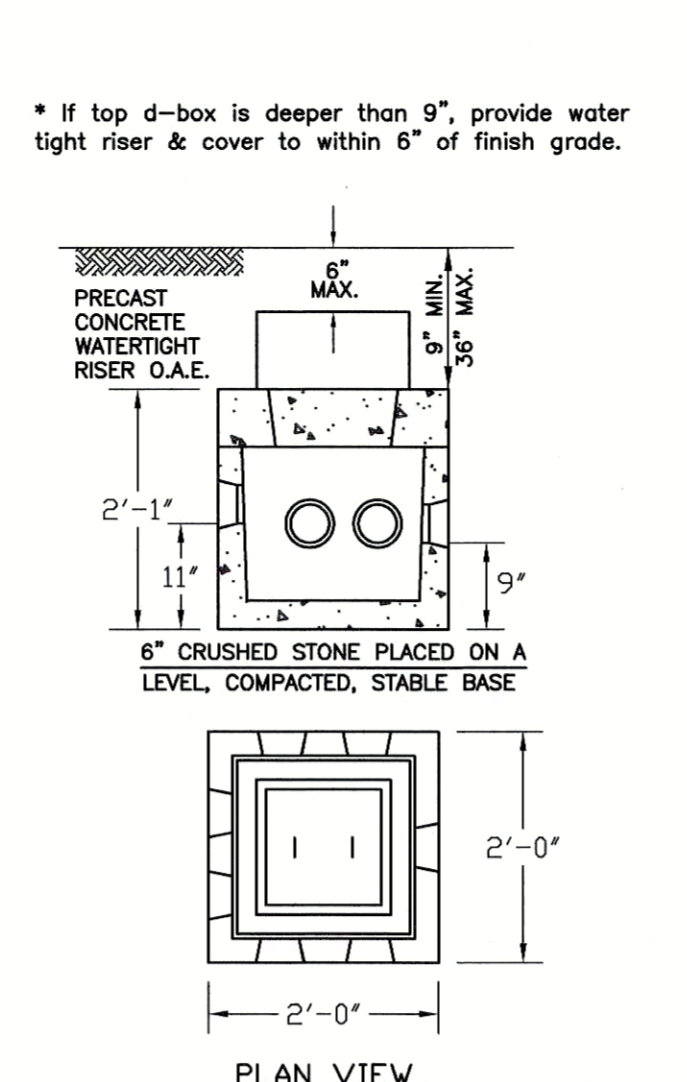
-TANK TO HAVE MANUFACTURERS Q/C SEAL
 -WATER TIGHT CONSTRUCTION



LEGEND
 ---168--- EXISTING CONTOUR ELEVATION
 ---166--- PROPOSED CONTOUR ELEVATION
 [Symbol] DEEP TEST SOIL PIT
 [Symbol] PERCOLATION TEST
 [Symbol] PROPOSED SPOT ELEVATION

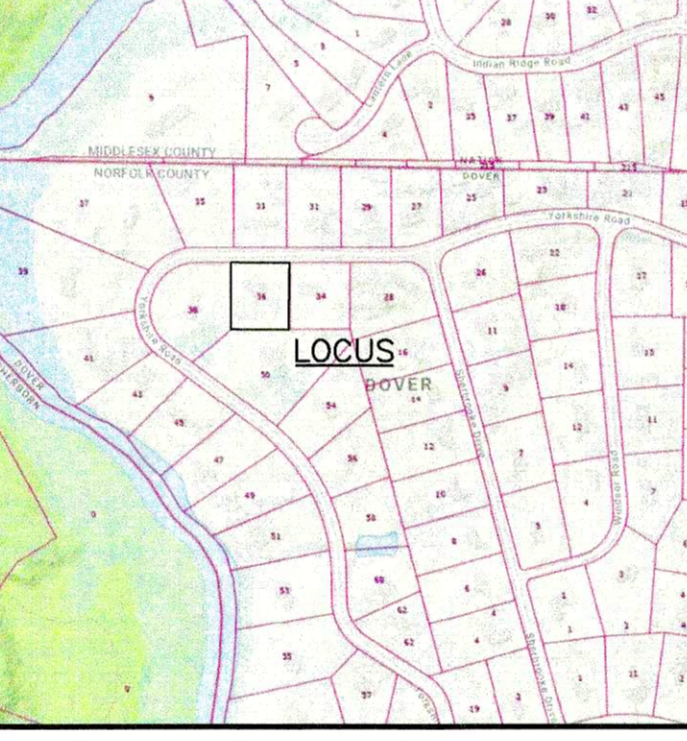
-NO PUBLIC WELLS WITHIN 400 FEET EXCEPT AS SHOWN.
 -NO PRIVATE WELLS WITHIN 200 FEET EXCEPT AS SHOWN.
 -NO WETLANDS, INLAND BANKS, OR SURFACE WATERS WITHIN 150 FEET EXCEPT AS SHOWN.
 -NO SURFACE WATER SUPPLIES WITHIN 400 FEET EXCEPT AS SHOWN.
 -NO SURFACE DRAINS EXCEPT AS SHOWN.
 -NO SURFACE OR SUBSURFACE DRAINS WHICH INTERCEPT GROUND WATER EXCEPT AS SHOWN.
 -NO 100 YEAR FLOOD LIMIT, EXCEPT IF SHOWN.
 -SITE IS NOT WITHIN A NITROGEN SENSITIVE AREA.

IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT AND/OR CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. ALL UTILITIES WITHIN A BUILDING SHALL BE REVIEWED BY THE APPROPRIATE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY INTERIOR OR EXTERIOR WORK. DIO SAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION (1-888-344-7233)

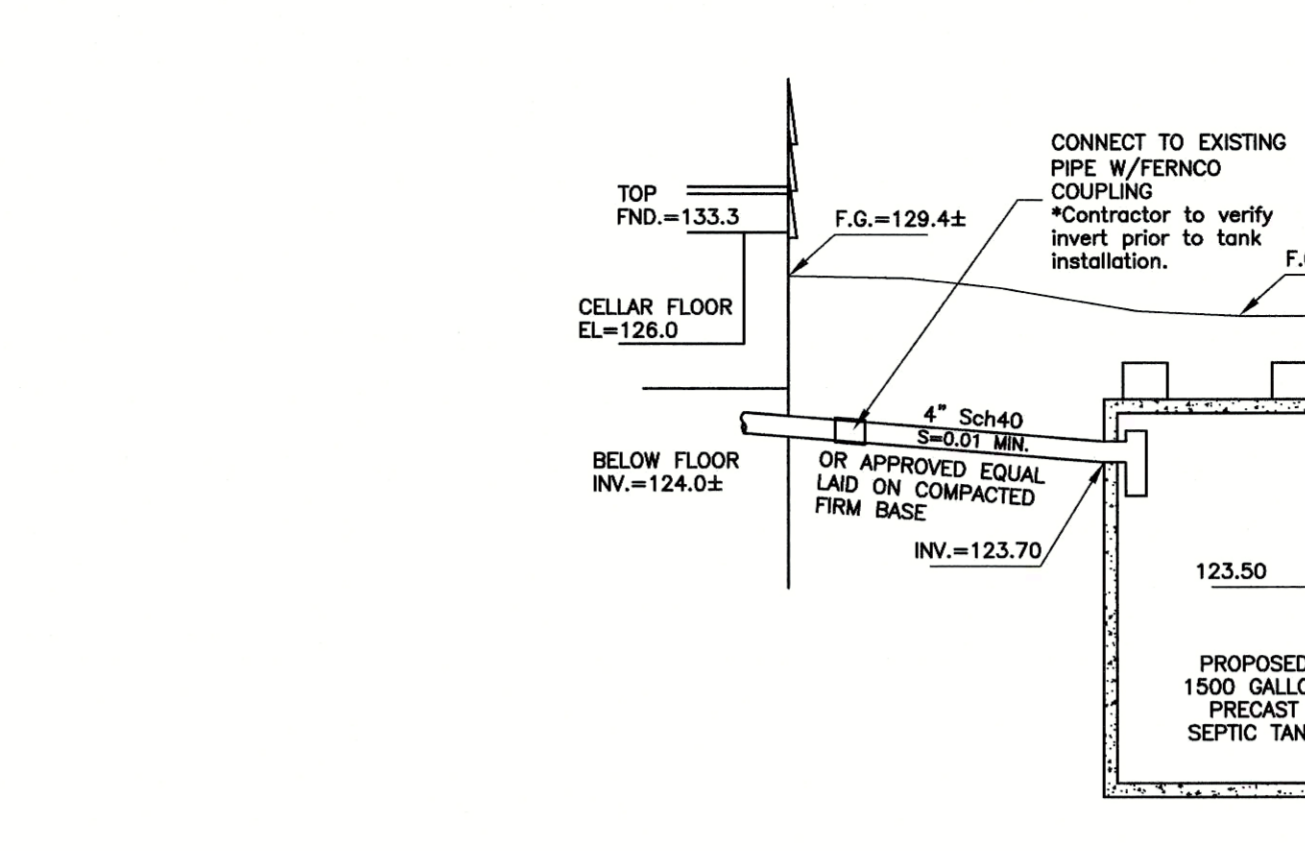


PRECAST CONCRETE
 6 OUTLET
 DISTRIBUTION BOX

SHEA B-80BH OR APPROVED EQUIVALENT
 -WATER TIGHT COVER REQUIRED
 -PROVIDE ONE OUTLET FOR EACH EFFLUENT DISTRIBUTION LINE
 -OUTLET DISTRIBUTION LINES SHALL BE LEVEL FOR AT LEAST THE FIRST TWO FEET
 -INVERT ELEVATIONS OF OUTLET LINES SHALL BE EQUAL
 -AN INLET TEE MAY BE INSTALLED IN PLACE OF A BAFFLE



LOCUS MAP
 N.T.S.



CONSTRUCTION NOTES:
 -ALL PIPING TO BE 4" SCH 40 PVC UNLESS OTHERWISE NOTED.
 -ALL PIPES JOINTS TO BE WATER TIGHT.
 -BUILDING SEWER TO BE LAID ON COMPACTED FIRM BASE.
 -ALL COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE PRIOR TO BACK FILL.
 -BACKFILL MUST BE SUFFICIENTLY COMPACTED TO PREVENT SETTLING.
 -SOIL PLACED AS BACKFILL OVER THE SYSTEM MUST BE CLEAN AND FREE OF STONES >8". TALLINGS, CLAY OR SIMILAR MATERIALS ARE PROHIBITED.
 -FINAL COVER OVER THE SYSTEM SHALL BE STABILIZED (LOAMED & SEEDDED)

PERCOLATION TEST RESULTS

TEST HOLE - 23-2	TEST HOLE -
DATE: 9/13/23	DATE:
DEPTH: 26'-46"	DEPTH:
SOAK 9:28	SOAK
12" 9:43	12"
11" 11"	11"
10" 10"	10"
9" 9:45	9"
8" 8"	8"
7" 7"	7"
6" 9:47	6"
RATE: 2.0 M.P.I.	RATE:

DEEP OBSERVATION HOLE LOGS

DEEP HOLE - 23-1				DEEP HOLE - 23-2				DEEP HOLE - 23-3			
HORIZ. DEPTH	DATE: 9/13/23	ELEV.	SOIL DESCRIPTION	HORIZ. DEPTH	DATE: 9/13/23	ELEV.	SOIL DESCRIPTION	HORIZ. DEPTH	DATE: 9/13/23	ELEV.	SOIL DESCRIPTION
0"		125.5	LOAM 10YR3/2	0"		122.0	A LOAM 10YR3/2	0"		121.6	A LOAM 10YR3/2
8"		123.3	SANDY LOAM 10YR5/6	8"		119.8	B SANDY LOAM 10YR5/6	8"		119.4	B SANDY LOAM 10YR5/6
26"		123.3	C1 SAND Fine Sand 2.5Y/3	26"		118.8	C1 SAND Fine-Med Sand 2.5Y/4	26"		118.7	C1 SAND Fine-Med Sand 2.5Y/4
37"		122.5	C2 SAND Med-Coarse Sand 2.5Y/4	37"		115.0	C2 L.S. Firm Gravel 2.5Y/2	37"		114.9	C2 L.S. Firm Gravel 2.5Y/2
57"		120.8	C3 L.S. Firm Gravel 2.5Y/2	57"		117.2	GROUNDWATER OBSERVED	57"		116.7	GROUNDWATER OBSERVED
86"		120.0	GROUNDWATER OBSERVED	86"		119.8	SOIL MOTTLING	86"		119.4	SOIL MOTTLING
48"		121.5	GROUNDWATER OBSERVED	48"		115.0	GROUNDWATER OBSERVED	48"		116.7	GROUNDWATER OBSERVED
26"		123.3	ESTIMATED SEASONAL HIGH GROUNDWATER	26"		119.8	ESTIMATED SEASONAL HIGH GROUNDWATER	26"		119.4	ESTIMATED SEASONAL HIGH GROUNDWATER
26"		123.3	ESTIMATED SEASONAL HIGH GROUNDWATER	26"		119.8	ESTIMATED SEASONAL HIGH GROUNDWATER	26"		119.4	ESTIMATED SEASONAL HIGH GROUNDWATER

CERTIFIED SOIL EVALUATOR : ROBERT TRUAX, SE#2476
 WITNESSED BY B.O.H. AGENT : JASON BELMONT
 DESIGN PERCOLATION RATE : 2.0 M.P.I. CLASS 1

ASSESSOR'S REFERENCE:
 PARCEL ID: 9-47-0

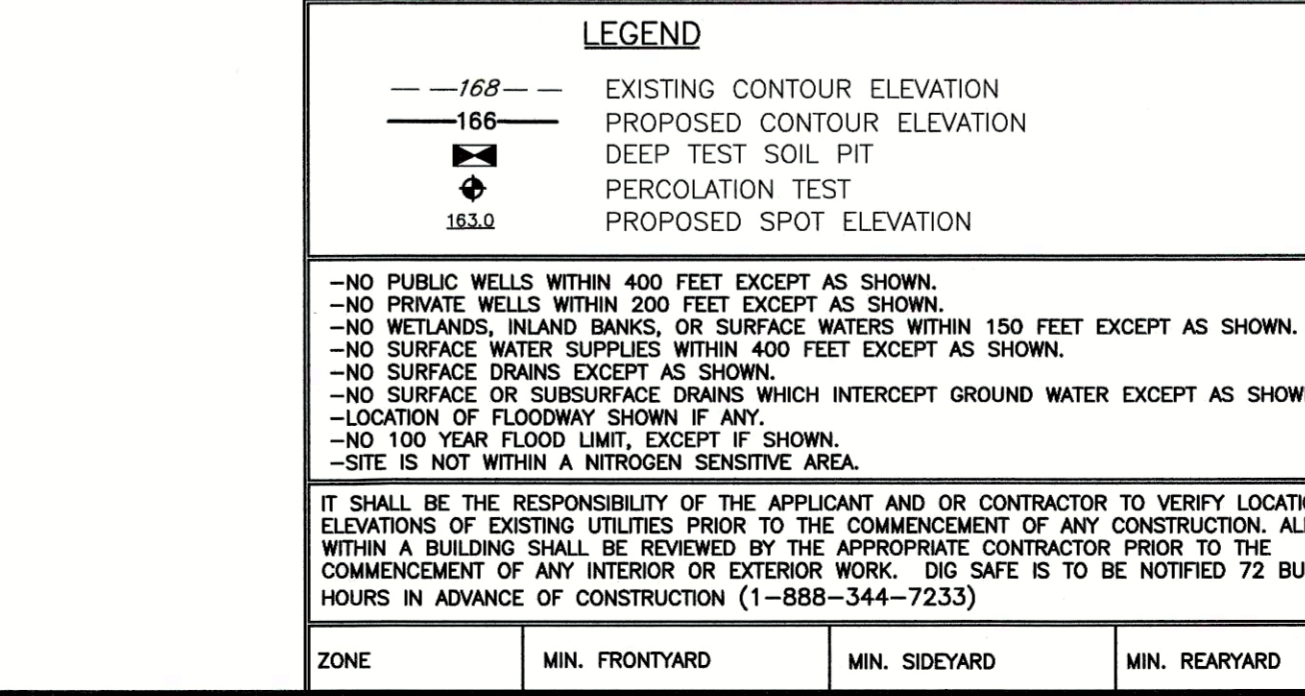
*NO GARBAGE GRINDER ALLOWED
 UPGRADE

TYPE OF FACILITY SERVED
 SINGLE FAMILY DWELLING - 4 BEDROOMS

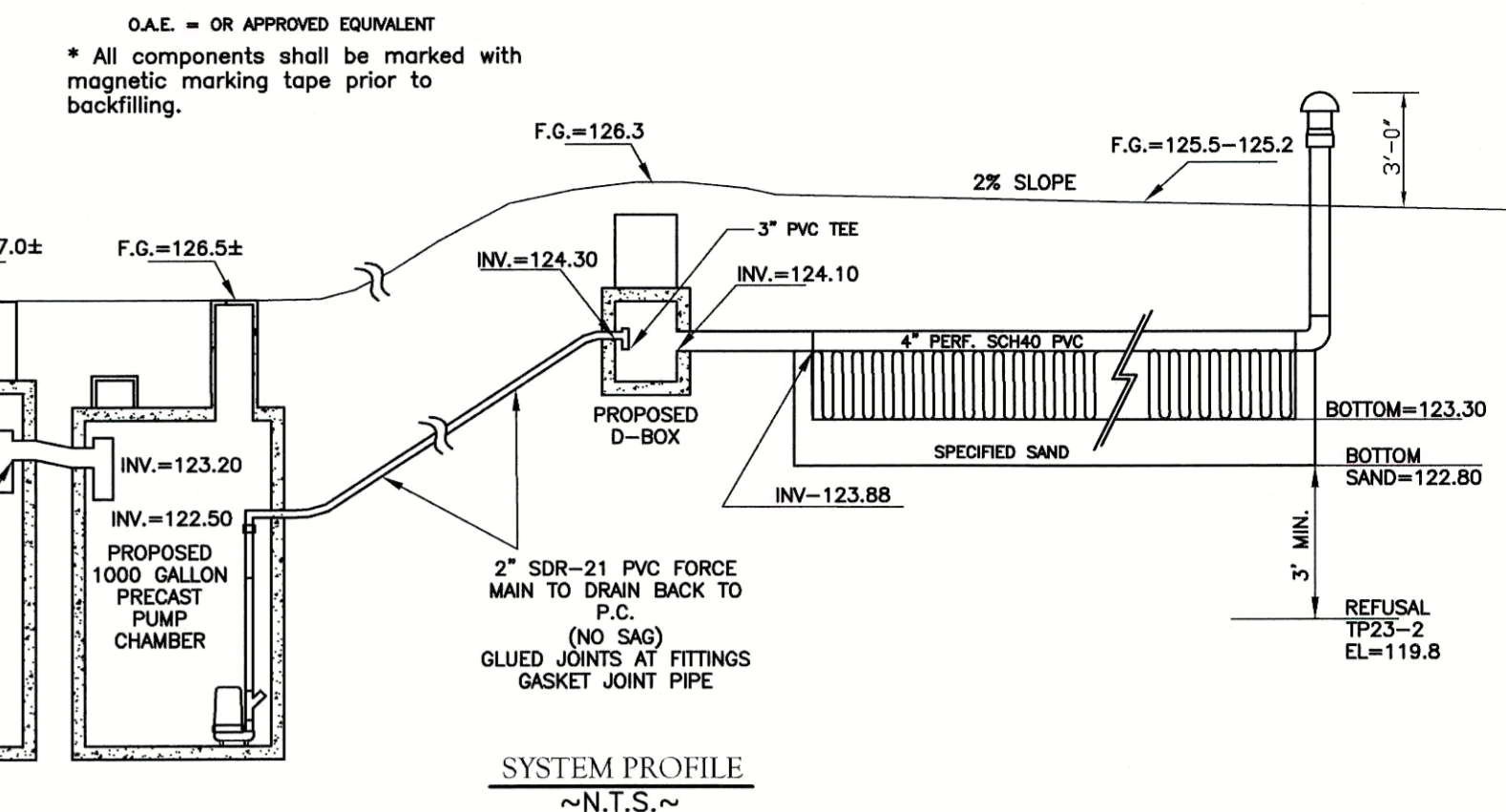
DESIGN FLOW :
 4 BEDROOMS x 110 GAL./DAY/BEDROOM = 440 G.P.D.
 SEPTIC TANK SIZING:
 DESIGN FLOW x 200%
 440 GAL. x 200% = 880 GALLONS
 SEPTIC TANK PROPOSED: 1500 GALLON 2-COMPARTMENT

SYSTEM SIZING CALCULATIONS:
 GARBAGE GRINDER: NO
 DESIGN FLOW = 440 GPD
 EFFLUENT LOADING RATE = 0.74 GPD/SF (2.0 MPI)
 LEACHING AREA REQUIRED = 440 GPD/0.74 GPD/SF = 595 SF

ELJEN GSF A42 SYSTEM DESIGN (TRENCH)
 LEACHING AREA REQUIRED: 357 S.F. (B43 Bed Sizing)
 NUMBER OF B43 MODULES REQUIRED: 20 MODULES
 LEACHING AREA PROVIDED:
 USE 3 ROWS 7 MODULES/ROW = 21 MODULES
 BOTTOM AREA PROVIDED:
 30' L x 15' W = 450 S.F.



LOCUS MAP
 N.T.S.



CONSTRUCTION NOTES:
 -ALL PIPING TO BE 4" SCH 40 PVC UNLESS OTHERWISE NOTED.
 -ALL PIPES JOINTS TO BE WATER TIGHT.
 -BUILDING SEWER TO BE LAID ON COMPACTED FIRM BASE.
 -ALL COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE PRIOR TO BACK FILL.
 -BACKFILL MUST BE SUFFICIENTLY COMPACTED TO PREVENT SETTLING.
 -SOIL PLACED AS BACKFILL OVER THE SYSTEM MUST BE CLEAN AND FREE OF STONES >8". TALLINGS, CLAY OR SIMILAR MATERIALS ARE PROHIBITED.
 -FINAL COVER OVER THE SYSTEM SHALL BE STABILIZED (LOAMED & SEEDDED)

PERCOLATION TEST RESULTS

TEST HOLE - 23-2	TEST HOLE -
DATE: 9/13/23	DATE:
DEPTH: 26'-46"	DEPTH:
SOAK 9:28	SOAK
12" 9:43	12"
11" 11"	11"
10" 10"	10"
9" 9:45	9"
8" 8"	8"
7" 7"	7"
6" 9:47	6"
RATE: 2.0 M.P.I.	RATE:

DEEP OBSERVATION HOLE LOGS

DEEP HOLE - 23-1				DEEP HOLE - 23-2				DEEP HOLE - 23-3			
HORIZ. DEPTH	DATE: 9/13/23	ELEV.	SOIL DESCRIPTION	HORIZ. DEPTH	DATE: 9/13/23	ELEV.	SOIL DESCRIPTION	HORIZ. DEPTH	DATE: 9/13/23	ELEV.	SOIL DESCRIPTION
0"		125.5	LOAM 10YR3/2	0"		122.0	A LOAM 10YR3/2	0"		121.6	A LOAM 10YR3/2
8"		123.3	SANDY LOAM 10YR5/6	8"		119.8	B SANDY LOAM 10YR5/6	8"		119.4	B SANDY LOAM 10YR5/6
26"		123.3	C1 SAND Fine Sand 2.5Y/3	26"		118.8	C1 SAND Fine-Med Sand 2.5Y/4	26"		118.7	C1 SAND Fine-Med Sand 2.5Y/4
37"		122.5	C2 SAND Med-Coarse Sand 2.5Y/4	37"		115.0	C2 L.S. Firm Gravel 2.5Y/2	37"		114.9	C2 L.S. Firm Gravel 2.5Y/2
57"		120.8	C3 L.S. Firm Gravel 2.5Y/2	57"		117.2	GROUNDWATER OBSERVED	57"		116.7	GROUNDWATER OBSERVED
86"		120.0	GROUNDWATER OBSERVED	86"		119.8	SOIL MOTTLING	86"		119.4	SOIL MOTTLING
48"		121.5	GROUNDWATER OBSERVED	48"		115.0	GROUNDWATER OBSERVED	48"		116.7	GROUNDWATER OBSERVED
26"		123.3	ESTIMATED SEASONAL HIGH GROUNDWATER	26"		119.8	ESTIMATED SEASONAL HIGH GROUNDWATER	26"		119.4	ESTIMATED SEASONAL HIGH GROUNDWATER
26"		123.3	ESTIMATED SEASONAL HIGH GROUNDWATER	26"		119.8	ESTIMATED SEASONAL HIGH GROUNDWATER	26"		119.4	ESTIMATED SEASONAL HIGH GROUNDWATER

CERTIFIED SOIL EVALUATOR : ROBERT TRUAX, SE#2476
 WITNESSED BY B.O.H. AGENT : JASON BELMONT
 DESIGN PERCOLATION RATE : 2.0 M.P.I. CLASS 1

ASSESSOR'S REFERENCE:
 PARCEL ID: 9-47-0

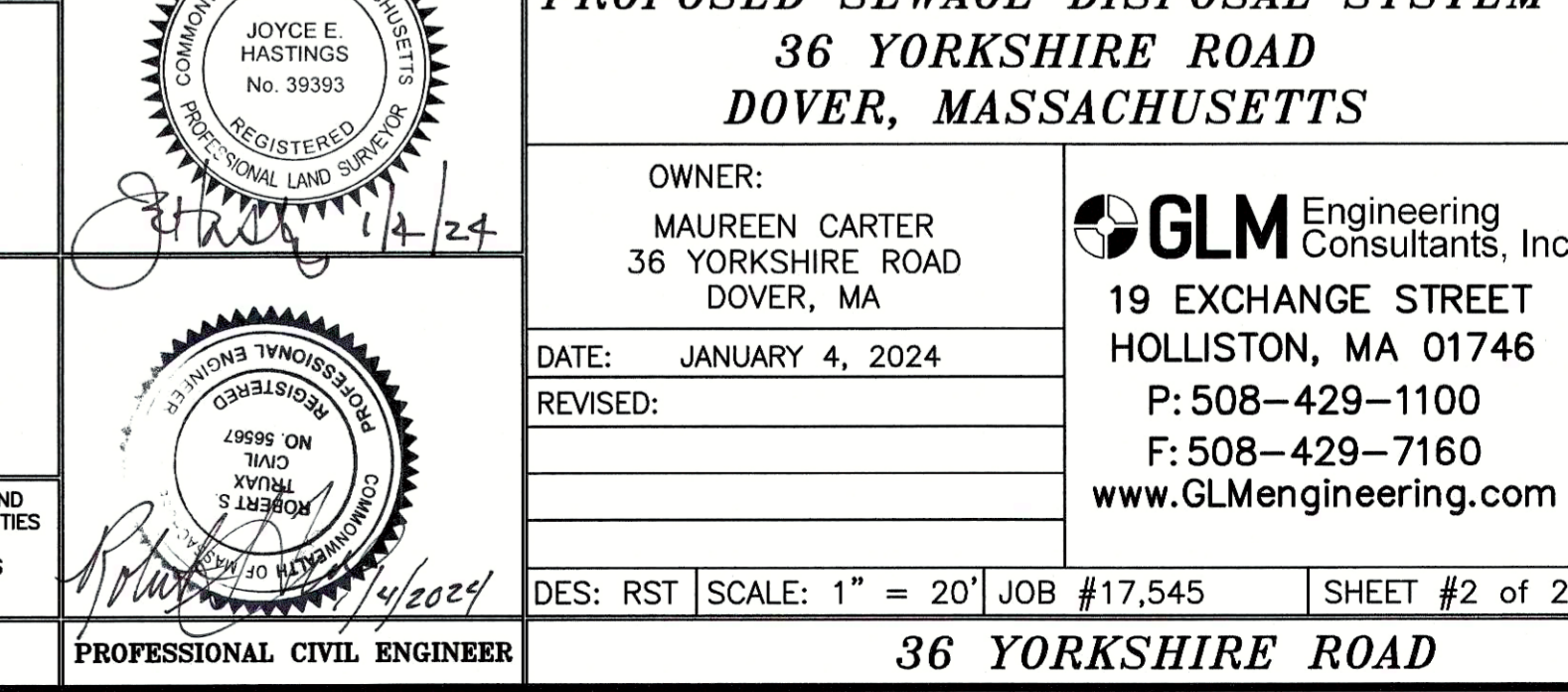
*NO GARBAGE GRINDER ALLOWED
 UPGRADE

TYPE OF FACILITY SERVED
 SINGLE FAMILY DWELLING - 4 BEDROOMS

DESIGN FLOW :
 4 BEDROOMS x 110 GAL./DAY/BEDROOM = 440 G.P.D.
 SEPTIC TANK SIZING:
 DESIGN FLOW x 200%
 440 GAL. x 200% = 880 GALLONS
 SEPTIC TANK PROPOSED: 1500 GALLON 2-COMPARTMENT

SYSTEM SIZING CALCULATIONS:
 GARBAGE GRINDER: NO
 DESIGN FLOW = 440 GPD
 EFFLUENT LOADING RATE = 0.74 GPD/SF (2.0 MPI)
 LEACHING AREA REQUIRED = 440 GPD/0.74 GPD/SF = 595 SF

ELJEN GSF A42 SYSTEM DESIGN (TRENCH)
 LEACHING AREA REQUIRED: 357 S.F. (B43 Bed Sizing)
 NUMBER OF B43 MODULES REQUIRED: 20 MODULES
 LEACHING AREA PROVIDED:
 USE 3 ROWS 7 MODULES/ROW = 21 MODULES
 BOTTOM AREA PROVIDED:
 30' L x 15' W = 450 S.F.



LOCUS MAP
 N.T.S.

PROFESSIONAL CIVIL ENGINEER

36 YORKSHIRE ROAD

DES: RST SCALE: 1" = 20' JOB #17,545 SHEET #2 of 2