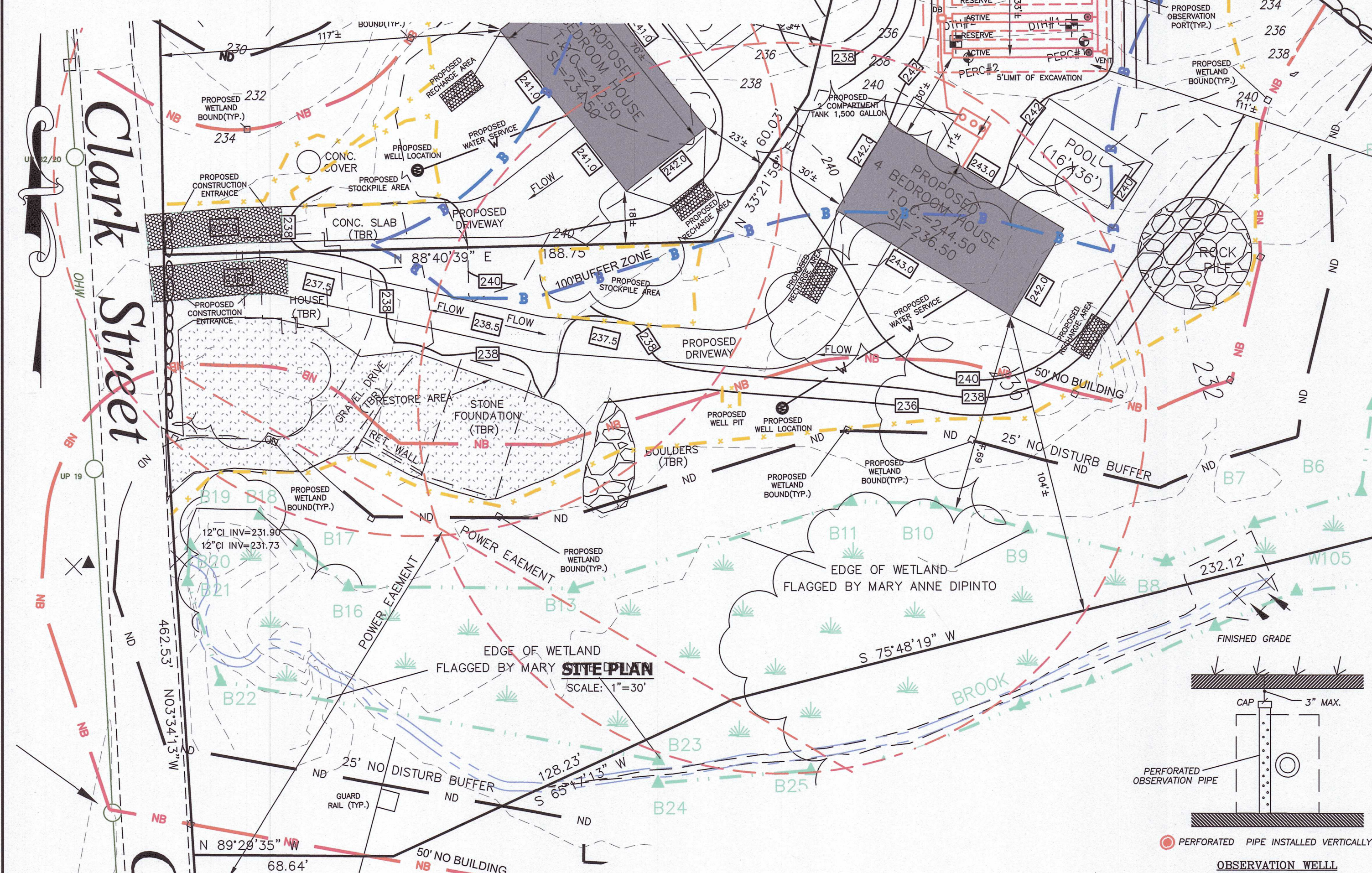


NOTES:
[1] THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
[2] WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
[3] WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
[4] USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.



SCOPE OF WORK
THE CONTRACTORS SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO:
1. ALL LABORS AND MATERIALS TO INSTALL THE SEWAGE DISPOSAL SHOWN, COMPLETE AND PLACED IN SERVICE.
2. INSURING ALL PERMITS HAVE BEEN OBTAINED.
3. PERFORMING ALL WORK IN ACCORDANCE WITH TITLE 5.
4. ANY MEASURES TO PROTECT THE WETLAND, IF ANY.
5. TIMELY EXECUTION OF THE WORK.

MAINTENANCE NOTE
THE STATE ENVIRONMENTAL CODE, STATES:
"SEPTIC TANKS SHOULD BE INSPECTED AND CLEANED AT LEAST ANNUALLY."

NO PERMANENT STRUCTURES ARE TO BE ERECTED IN THE RESERVE AREA.

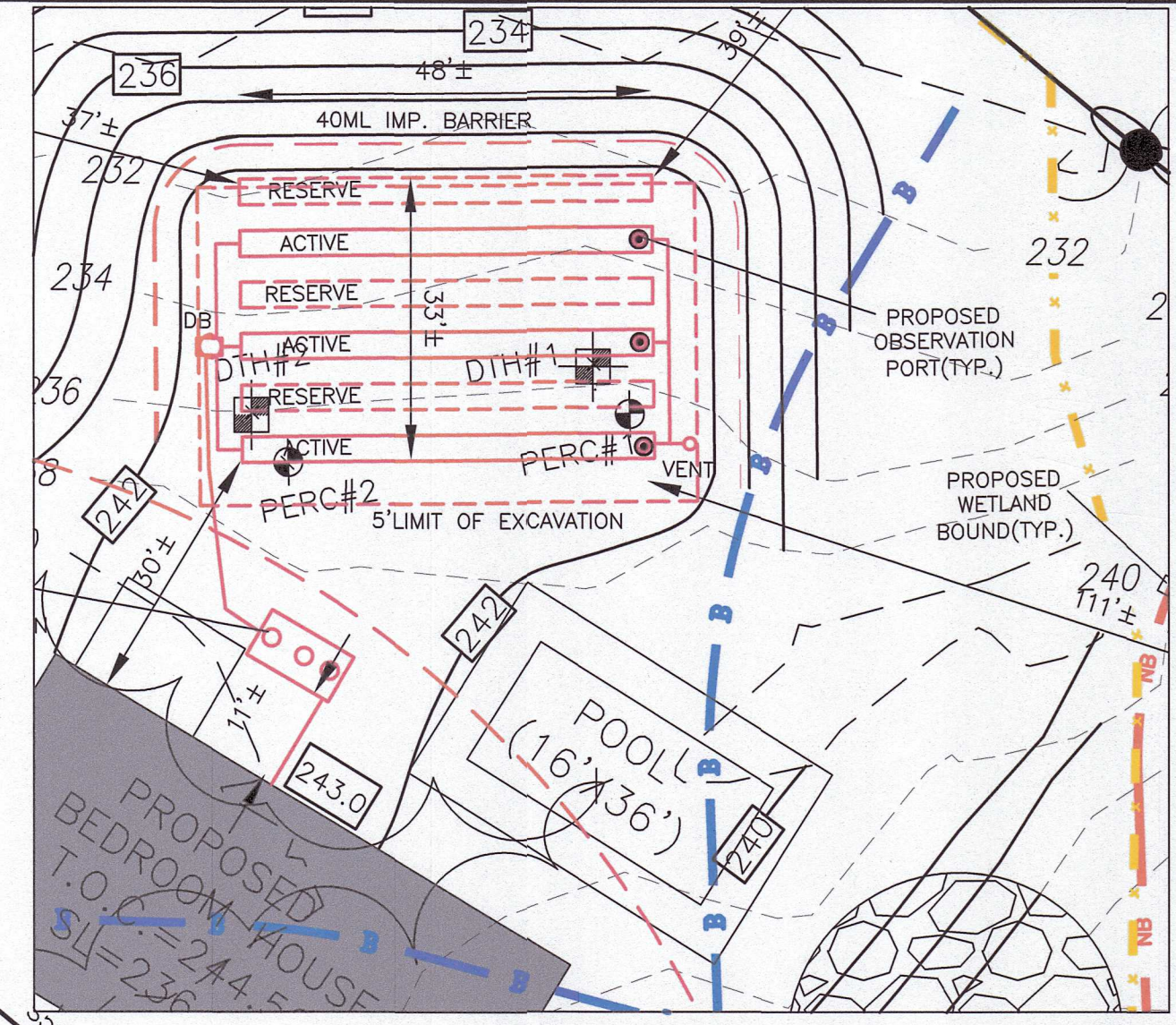
DO NOT PLANT TREES OVER OR NEAR THE FIELD. AVOID VEHICULAR TRAFFIC OVER SYSTEM.

SOIL LOGS DATE: 6/27/24			
TEST PIT #1		236.00	
0-12	Ap S.L.	10YR4/4	235.00
12-27	Bw S.L.	10YR6/6	233.72
27-108	C M.S.	2.5Y5/4	227.00
24" TO MOTILES		234.00	
56" TO WEEPING		231.34	
58" TO MOTILES		231.17	
TEST PIT #2		237.00	
0-16	Ap S.L.	10YR4/4	235.00
16-32	Bw S.L.	10YR6/6	233.72
32-108	C M.S.	2.5Y5/4	227.00
36" TO MOTILES		234.00	
72" TO WEEPING		231.00	
72" TO STAND WATER		231.00	

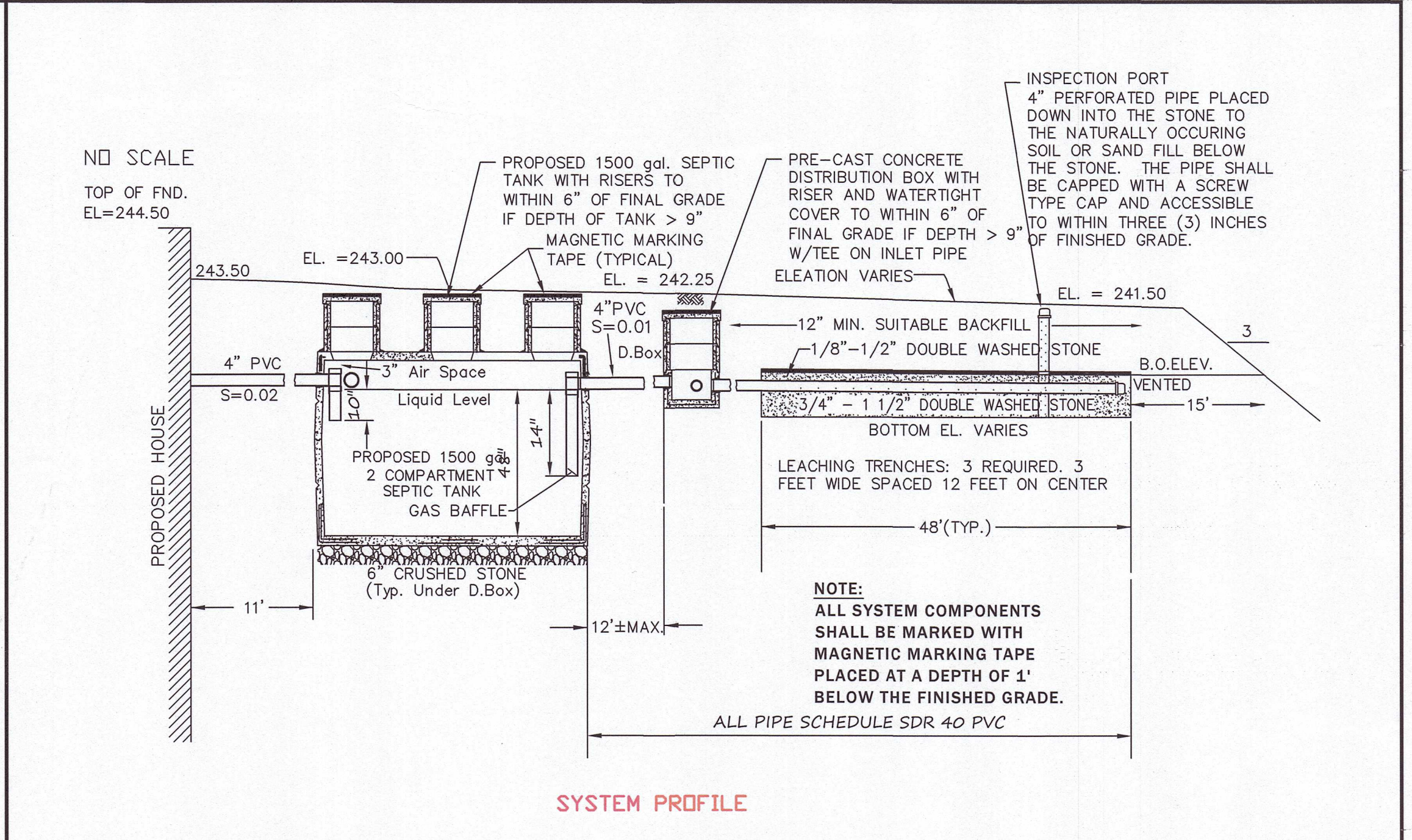
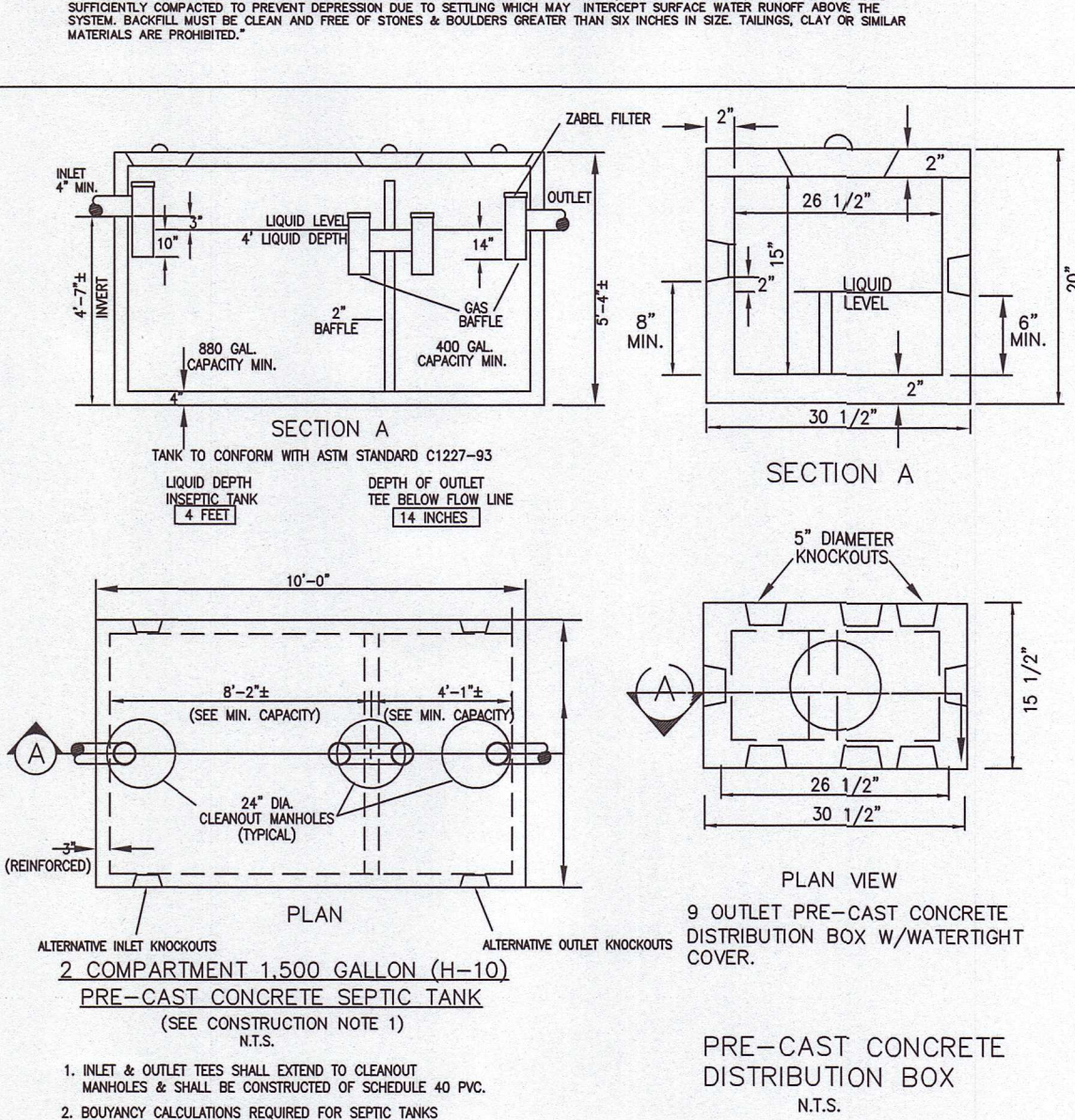
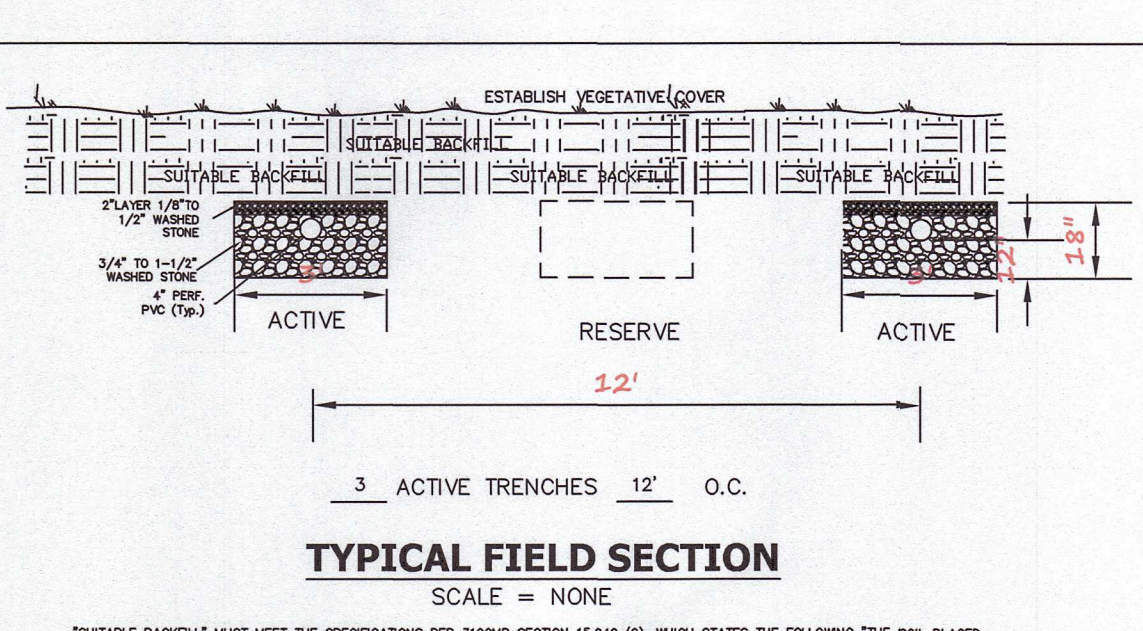
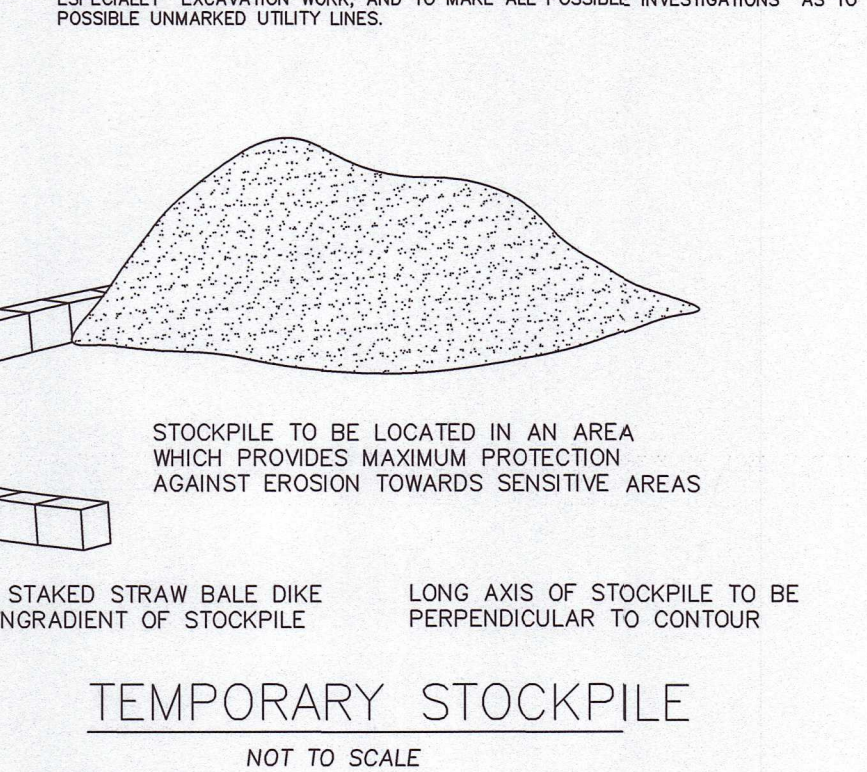
SOIL TESTING
DATE: 6/27/25
PERFORMED BY: PETER LAVOIE, S.E.I.332

WITNESSED BY: DEREK KERK
RESULT: PERC TEST 1: 2(22-40")
PERC TEST 2: 2(22-40")

ADDITIONAL NOTES
1. INLET & OUTLET TEES SHALL EXTEND TO CLEANSOUT MANHOLES & SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC.
2. BOUNDRY CALCULATIONS REQUIRED FOR SEPTIC TANKS INSTALLED IN GROUNDWATER.



DESIGN ELEVATIONS	
TOP OF FOUNDATION	244.50
SLAB ELEVATION	236.50
INV. AT FOUNDATION	241.25
INV. AT SEPTIC TANK INLET	241.00
INV. AT SEPTIC TANK OUTLET	240.75
INV. AT DIST. BOX INLET	240.60
INV. AT DIST. BOX OUTLET	240.43
INV. BEGINNING TRENCH	240.25
INV. END OF TRENCH	239.00
BOTTOM OF TRENCH	234.00
ELEV. OF GROUND WATER	NONE
ELEV. OF REFUSAL	NONE



COMPONENT NOTES
SEPTIC TANK
SEPTIC TANK SHALL BE A PRECAST, REINFORCED CONCRETE TANK MADE WATER-TIGHT. CONSTRUCTION MATERIALS AND DIMENSIONS SHALL CONFORM TO TITLE 5 AND ASHTO HS 10 REQUIREMENTS AND PLACED ON A STABLE MECHANICALLY COMPACTED LEVEL BASE.

TANK/ SYSTEM TO BE VENTED THROUGH THE BUILDING PLUMBING SYSTEM AS REQUIRED BY BUILDING CODE.

TANK SHOULD BE INSPECTED, MAINTAINED AND BE PUMPED OUT WHEN SLUDGE DEPTH IN THE BOTTOM EXCEEDS ONE FOURTH OF THE TOTAL LIQUID DEPTH.

AT LEAST THREE 20" MANHOLES SHALL BE PROVIDED. AT LEAST ONE OF THE MANHOLES SHALL HAVE AN ACCESS PORT ACCESSIBLE TO WITHIN 6" OF FINISH GRADE.

"D" BOX
"D" BOX TO BE MADE WATER-TIGHT. CONSTRUCTION MATERIALS AND DIMENSIONS SHALL CONFORM TO TITLE 5 AND ASHTO HS 10 REQUIREMENTS AND PLACED ON A STABLE MECHANICALLY COMPACTED LEVEL BASE.

"D" BOX OUTLETS SHALL BE INSTALLED LEVEL ("BUILT UP" INVERTS, NOT PERMITTED).

FIRST 2" (MIN.) OF OUTLETS SHALL BE INSTALLED LEVEL TO EQUALIZE FLOW.

THE MINIMUM INSIDE DIMENSIONS OF THE "D" BOX TO BE 12" AND THE MINIMUM WALL THICKNESS TO BE 2".

WHEN INLET PIPE SLOPE EXCEEDS 8%-PVC INLET TEE REQUIRED. CUT LOW END 1" ABOVE OUTLET INVERT.

"D" BOX COVER TO BE SEALED WITH BITUMEN.

LEACH AREA		
ALL LOAM, LARGE BOULDERS OR FOREIGN MATERIAL ENCOUNTERED DURING EXCAVATION ARE TO BE REMOVED FROM THE LEACHING AREA.		
ALL SOIL INTERFACES SHALL BE SCARIFIED PRIOR TO THE PLACEMENT OF STONE.		
ALL STONE IN PLACE SHALL BE DURABLE, FREE FROM IRON, FINES AND DUST AND DOUBLE WASHED.		
WHEN GRAVEL FILL IS REQUIRED, ALL LOAM AND ORGANIC MATERIAL SHALL BE REMOVED FROM AREA TO BE FILLED. FILL SHALL BE COMPACTED TO MINIMIZE SETTLEMENT AND SHALL BE CLEAN GRANULAR MATERIAL, FREE FROM FINES AND ORGANIC MATERIALS, AND SHALL BE IN ACCORDANCE WITH 310 CMR 15.255(3).		
ALL DISTURBED AREAS ARE TO BE LOAMED, SEEDING AND MAINTAINED TO PREVENT EROSION.		
AREAS ABOVE THE SOIL ABSORPTION SYSTEM SHALL REMAIN PERVIOUS UNLESS UNAVOIDABLE. IN SUCH CASES THE SYSTEM SHALL BE VENTED.		
SYSTEM IN FILL		
IF ANY PORTION OF THE PROPOSED LEACHING AREA IS LOCATED ABOVE EXISTING GRADE OR WITHIN TOPSOIL, SUBSOIL, PEAT OR OTHER UNSUITABLE OR IMPERVIOUS SOIL LAYER, THEN THE PLACEMENT OF FILL IS REQUIRED. PRIOR TO THE PLACEMENT OF FILL, ALL UNSUITABLE OR IMPERVIOUS SOILS SHALL BE EXCAVATED TO A MINIMUM OF FIVE FEET LATERSALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM TO THE DEPTH OF NATURALLY OCCURRING PERVIOUS MATERIAL. FILL MATERIAL SHALL BE SELECT, ON-SITE OR IMPORTED SOIL, CONSISTING OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT SOIL CLASSES 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 IN THE #4 SIEVE. SIEVE ANALYSES SHALL ALSO BE PERFORMED ON THE FRACTION OF FILL SAMPLE PASSING THE #4 SIEVE. SUCH ANALYSES MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS:		
# 4	4.75 MM	100%
# 50	0.30 MM	10%-100%
#100	0.15 MM	0%-20%
#200	0.075 MM	0%-5%

ZONING: AR-I AGRICULTURAL RES. 1		
LOT SIZE	REQ'D.	PLAN
AREA:	44,000	95,773
FRONTAGE:	180'	205'
SETBACKS		
STREET:	35'	230'
SIDE LINE:	15'	30'
REAR:	15'	115'

REVISIONS			
Rev	Date	Description	Check Made

DESIGN CRITERIA: SINGLE FAMILY

DESIGN FLOW FOR 4 BEDROOMS
4 Bedrooms x 100 gal./bedroom/day= 440 gallons/day

THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL. THE USE OF GARBAGE DISPOSALS IS NOT RECOMMENDED WITH SUBSURFACE DISPOSAL FACILITIES.

USE: 3 LINE 3" W X 1" D X 48"
Septic Tank Design: 440 GPD x 2 = 880 Gal. (1,500 Gal. Min.)

LEACHING FACILITY DESIGN CRITERIA

DESIGN FLOW FOR 4 BEDROOMS
4 Bedrooms x 110 gal./bedroom/day= 440 gallons/day

440 GPD/0.74= 596 S.F. REQUIRED

Soil: Class I. Loamy Sand, Effluent Loading Rate: 0.74 GPD/SF.
(a) Number of Trenches = 3.
(b) Trench Width = 3'.
(c) Trench Length = 48'.
(d) Stone Depth = 1'.
Sidewall Area=(3)(48')(1')(2 Sides):288 sf X 0.74 GPD/SF=213.1 GPD
Bottom Area = (3) X (3') X (48') : 432 Sf X 0.74 GPD/SF = 319.7 GPD
Total : Area = 720 SF X 0.74 = 532 GPD.

This system is not designed to accommodate a garbage disposal. The use of garbage disposals is not recommended with subsurface disposal facilities.

GENERAL NOTES
1. SYSTEM IS DESIGNED TO ACCOMMODATE SANITARY SEWAGE ASSOCIATED WITH NORMAL DOMESTIC USE AND CONSISTING OF WATER CARRIED PUTRESIBLE WASTE ONLY.
2. ALL COMPONENTS OF THE SEWAGE DISPOSAL SYSTEM SHALL BE COVERED BY A MAXIMUM OF 36" OF CLEAN BACKFILL MATERIAL, FREE OF STONES AND BOULDERS GREATER THAN 6" IN SIZE.
3. OWNER SHALL VERIFY EFFECTIVE ZONING REGULATIONS PRIOR TO CONSTRUCTION.
4. PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISIBLE APPARENT ON DATE OF TOPOGRAPHY, AND THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. IS NOT INTENDED OR IMPLIED.
5. ALL PIPING SHALL BE LAID TRUE TO LINE, GRADE AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. THERE ARE NO EXISTING WELLS WITHIN 100' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM. (50' OF THE SEPTIC TANK.)
7. THERE ARE NO WELLS WITHIN 100' OF PROPOSED LEACH FIELD. LOT TO BE SERVICED BY TOWN WATER.
8. ALL KNOWN WELLS WITHIN 200' OF THE PROPOSED PRIMARY AND EXPANSION LEACH AREAS ARE SHOWN.
9. THE DESIGN ENGINEER SHALL BE NOTIFIED PROMPTLY OF ANY PLAN DEFICIENCIES FOUND DUE TO UNFORESEEN SUBSURFACE CONDITIONS OR OTHER REASONS THAT MIGHT AFFECT THE FUNCTION OF THIS DESIGNED SYSTEM.
10. DEVIATIONS IN DESIGN OR CONSTRUCTION FROM THIS PLAN OR ANY OF THE CONDITIONS RELATING TO THE USE OR MAINTENANCE OF THE PROPOSED SYSTEM SHALL BE DEEMED TO VOID ANY CERTIFICATION OR REPRESENTATION MADE RELATIVE TO THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM.
11. CONTRACTOR SHALL NOTIFY "DIG SAFE" PRIOR TO ANY EXCAVATION.
1-888-DIG-SAFE (344-7233)
12. PRIOR TO ANY CONSTRUCTION A BENCHMARK SHALL BE SET WITHIN 50'-75' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.
13. CONSTRUCTION TO CONFORM WITH TITLE 5 OF MA STATE ENVIRONMENTAL CODE (310 CMR 15.000) AND BOH REQUIREMENTS FOR TOWN OF NATICK, MA.
14. HYDRAULIC CEMENT TO BE USED ON ALL OUTLET OF SEPTIC TANK AND D-BOX.
15. NO HEAVY MACHINERY IS ALLOWED TO PASS OVER LEACHING AREA OR OTHER SEPTIC COMPONENTS ONCE INSTALLED.
16. SYSTEM SHOULD NOT BE BACKFILLED UNTIL INSPECTED BY NATICK BOARD OF HEALTH AND THE DESIGN ENGINEER.
17. WATER SOFTENERS ARE NOT TO BE CONNECTED TO PROPOSED SEPTIC SYSTEM.
18. ONCE SEPTIC SYSTEM COMPONENTS ARE INSTALLED THEY SHALL BE MARKED WITH MAGNETIC TAPE.

MUNICIPALITY: MEDWAY

SEWAGE DISPOSAL SYSTEM
FOR: STREET 28 CLARK STREET
ASSessor's MAP 35 19 PARCEL (LOT 2)
TOWN: MEDWAY, MASSACHUSETTS
DESIGNED FOR
28 CLARK STREET LLC
390 SOUTH MAIN STREET, HOPEDALE, MA 01747
SCALE: 1"=30' MAY 15, 2025

D&L Design Group
Civil Engineering & Land Surveying
115 Water Street • Milford, MA 01757
P: (508) 408-2577
www.dandlgroup.com
PROJECT NO. J-093 DRAWING J010-SEPTICDES SHEET 1 OF 1