

DEEP HOLE OBSERVATION LOGS

LOG #	DATE	DEPTH	RATE	MIN./INCH
1 658.3	5-11-17	48"	4	
2 657.8	5-11-17	42"	3	

PERCOLATION TEST DATA

TEST PIT	DATE	DEPTH	RATE	MIN./INCH
P1	5-11-17	48"	4	
P2	5-11-17	42"	3	

I CERTIFY THAT ON 10/24/18 I PASSED THE EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME, CONSISTENT WITH THE TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.01(10)(2).
Richard D. Gobi
 RICHARD D. GOBI

DESIGN CALCULATIONS

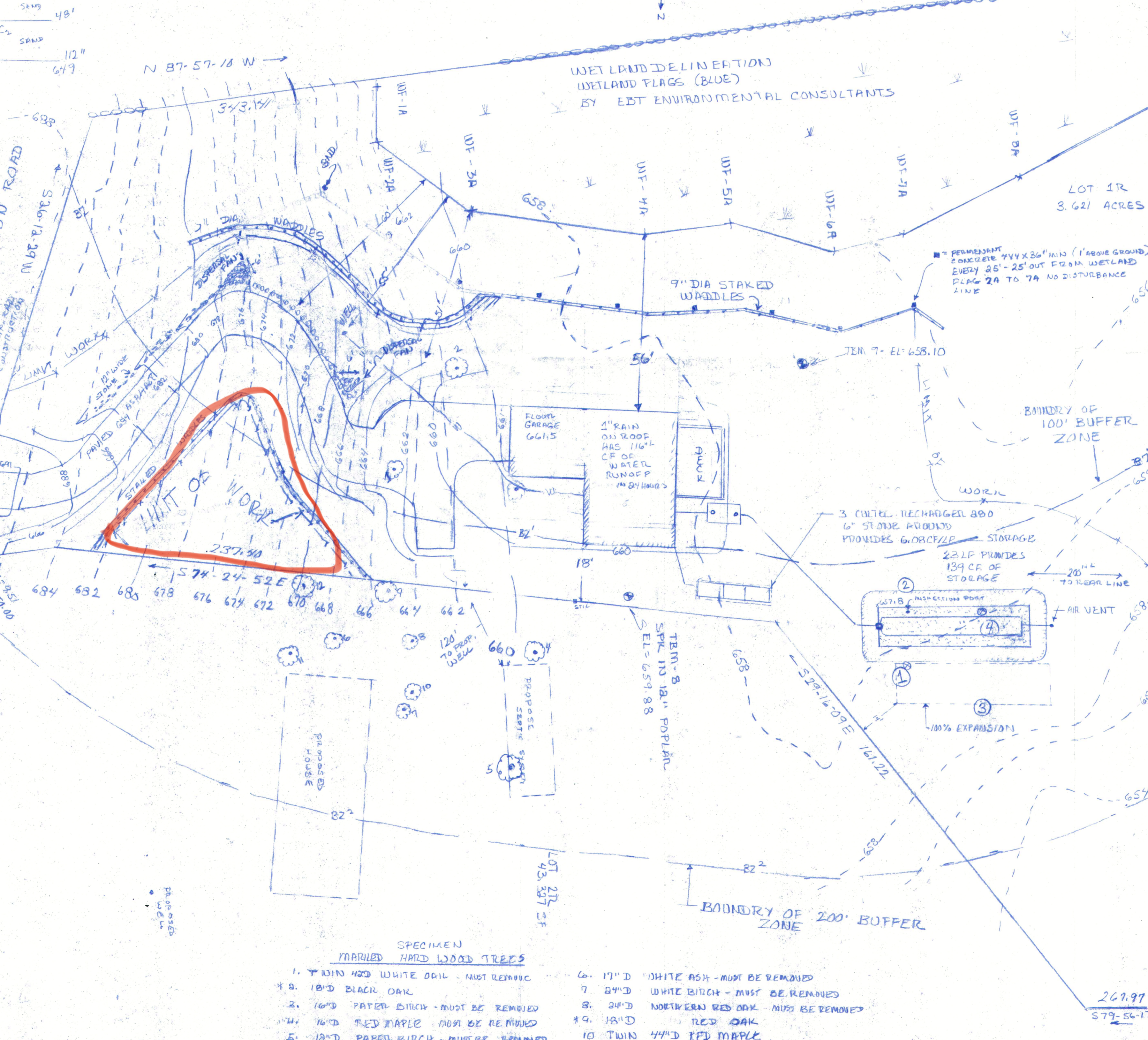
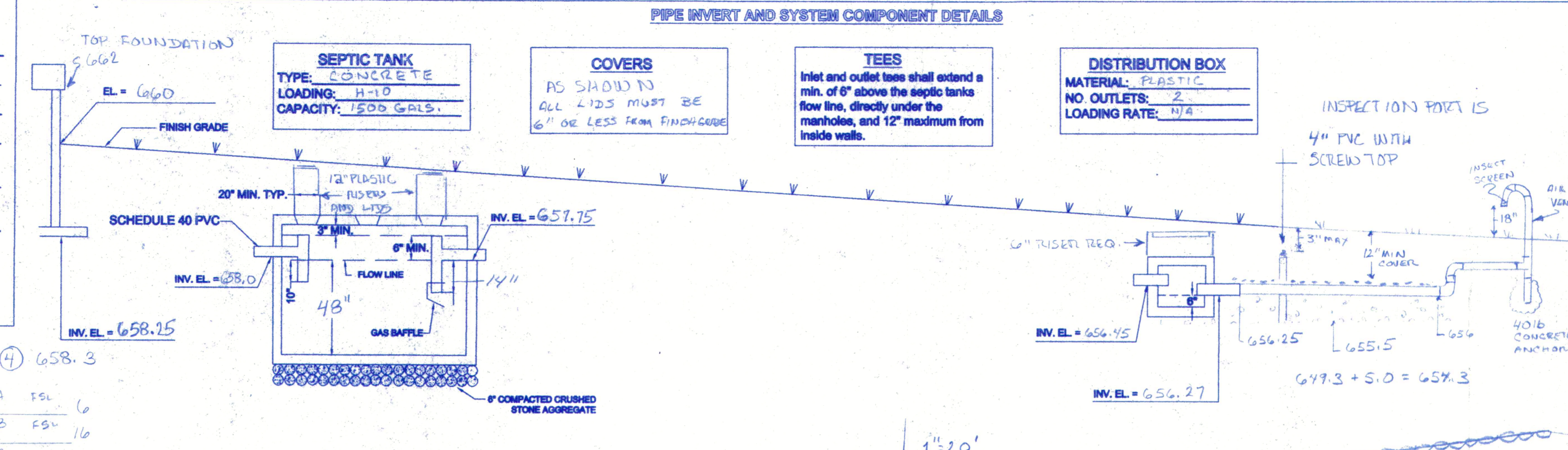
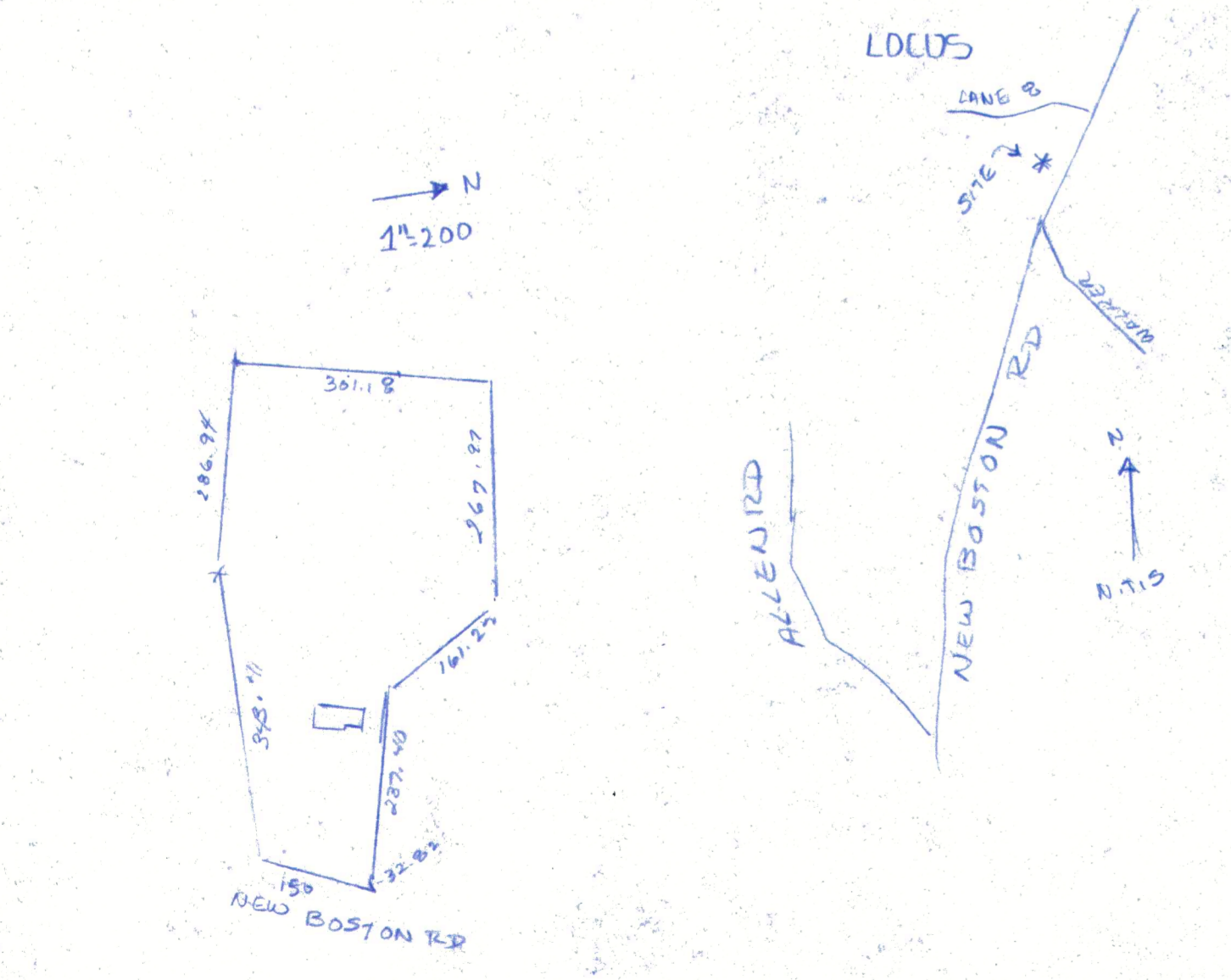
TYPE OF BUILDING: SINGLE FAMILY - NO GARBAGE DISPOSAL
 NUMBER OF BEDROOMS (AT 110 GPD/BEDROOM): 4 OTHER: _____
 FLOW REQUIRED: 440
 TOTAL SQ. FOOTAGE PROVIDED: 650 X LOADING RATE: .74 = 481 GPD FLOW
 TOTAL FLOW REQUIRED: 440 GPD FLOW PROVIDED: 481 GPD

SECTION OF FIELD

LENGTH OF FIELD: 50'
 WIDTH OF FIELD: 13'
 NO. DISTR. LINES: 2
 EL. DIST. BEGINNING: 656.25
 EL. DIST. END: 656.0
 EL. BTM. STONE: 655.5
 EL. BTM. SAND: 655.5

SECTION OF TRENCH

TRENCH #	BEGINNING	END	BOTTOM



- ### SPECIMEN MARKED HARD WOOD TREES
- WIN 40D WHITE OAK - MUST REMAIN
 - 18" D BLACK OAK
 - 16" D PAPER BIRCH - MUST BE REMOVED
 - 16" D RED MAPLE - MUST BE REMOVED
 - 18" D PAPER BIRCH - MUST BE REMOVED
 - 17" D WHITE ASH - MUST BE REMOVED
 - 24" D WHITE BIRCH - MUST BE REMOVED
 - 24" D NORTHERN RED OAK - MUST BE REMOVED
 - 18" D RED OAK
 - TWIN 44" D RED MAPLE
 - 24" D WHITE OAK - MUST BE REMOVED
 - 16" D NORTHERN RED OAK

NOTES

- REGULATIONS**
 A. This design is in accordance with the Commonwealth of Massachusetts regulations 310 CMR 15.000 Title 5, of the State Environmental Code and the requirements of the local Board of Health, unless noted.
 B. All work and components shall conform to the latest edition of the Commonwealth of Massachusetts regulations, 310 CMR 15.000 Title 5 of the State Environmental Code which governs the design and construction of onsite disposal of sanitary sewage.
 C. This plan must be reviewed and permitted by the local Board of Health prior to construction.
 D. All work shall be in accordance with the regulations of the local Board of Health, and must be inspected and approved by the local Board of Health.
 E. All construction activity within 100 feet of a wetland or 200' of a riverfront area requires filing in accordance with the wetlands Protection Act, MGL Chapter 131 Section 40.
 F. The owner and/or contractor are responsible to adhere to applicable zoning and wetland regulations.
 G. The contractor is responsible to comply with all inspections as per Board of Health and have a valid installer's license.
 H. NOTICE OF INTENT TO BE FILED.
 I. ALL PILE DRIVERS TO BE FILED WITH THE BOARD OF HEALTH ON PLANS.
- MATERIALS & CONSTRUCTION**
 A. All concrete products including septic tank, pumping chamber, distribution boxes must be set on a level, stable base with 6" inches of crushed stone.
 B. Septic tank construction must comply with 310 CMR 15.226.
 C. All stone used must be double washed and free of all iron, fines and dust.
 D. Fill material for systems constructed in fill shall be clean, coarse, granular sand, free of organic matter and deleterious substances, meeting the requirements of 310 CMR 15.255(3), and placed on a dry scarified excavation.
 E.
- CHANGES**
 A. No variation from this plan shall be made without written direction from Richard Gobi.
 B. Richard Gobi is to be notified of any significant changes to this design plan.
 C.
- EXCAVATION & BACKFILLING**
 A. In excavations for the sewage disposal system trench area, care must be taken to not compact or smear the bottom or sides.
 B. All work should be done in favorable weather conditions, but in no case shall fill or stone be placed on wet, smeared or frozen soils.
 C. All backfilling shall be done with care to prevent damage to any components and have proper pipe bedding.
 D. All trenching areas, unless noted, shall be loamed and reseeded and have a 2% grade to prevent accumulation of water on the system.
 E.
- GENERAL NOTES**
 A. All wells, wetlands and waterways within 100 feet of the septic system are shown on this plan.
 B. Property line information was taken from: REVERSE SURVEY BY JARVIS SURVEYING 7-7-17 ELEVATIONS AND B.M.'S ESTABLISHED BY JARVIS SURVEYING
 C. The occupancy requirements (number of bedrooms, etc.) for the existing building(s) as indicated in the calculations below and as shown herein are based on owner supplied information. No certification is made regarding this information.
 D. The Owner or the Contractor is responsible for obtaining a Disposal Works Construction Permit prior to construction, Scheduling Board of Health Inspections and obtaining a Certificate of Compliance prior to use of the system.
 E.
- CERTIFICATE OF COMPLIANCE**
 A. In order to receive a Certificate of Compliance, all inspections required must be completed and the proper forms signed as per Code.
 B.
- MAINTENANCE**
 A. Septic tanks must be inspected yearly and cleaned when solids level is more than one (1) foot in depth, but as a minimum once every three years.
 B. If an effluent filter is installed it should be inspected and cleaned if necessary every 6 months.
 C. Septic tank additives of any kind are not necessary and may interfere with proper treatment and disposal. Never use sulfuric acid or sodium hydroxide. Try to use only biodegradable products. Moderation should be the rule in using household cleaners. Waste brine from water softeners should not discharge to septic tanks.
 D.
- WARRANTY**
 A. The design engineer's only warranty is that the system is designed according to Title 5 and Local Board of Health regulations unless noted elsewhere, which would require a variance or local upgrade approval.
- OTHER NOTES** INSTALL MAGNETIC TAPE OVER ALL LINES AND COMPONENTS

LEGEND

- 90 --- Existing Contour
- 90 --- Proposed Contour
- x90 Existing Spot Elevation
- x90 Proposed Spot Elevation
- ① Deep Hole Location and Number
- ⊙ Percolation Test Location
- D — Drain Line
- W — Water Line
- G — Gas Line
- CB Catch Basin
- Wetland Boundary
- BZ-BZ Buffer Zone
- Double Staked Hay Bales
- Silt Fence
- Limit of Excavation & Fill
- Property Bound
- Existing Well
- Proposed Well
- Utility Pole

PLAN OF SEWER DISPOSAL SYSTEM

LOCATION: LOT 1R ASSESSORS MAP 755-158-367 NEW BOSTON RD, STURBRIDGE

APPLICANT: DIVERDI BUILDERS ROBERT DIVERDI

508-654-3929

GOBI LAND ENGINEERING

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SCALE: 1"=20' DATE: 5-30-17 REV: 9-10-17 REV: 9-19-17