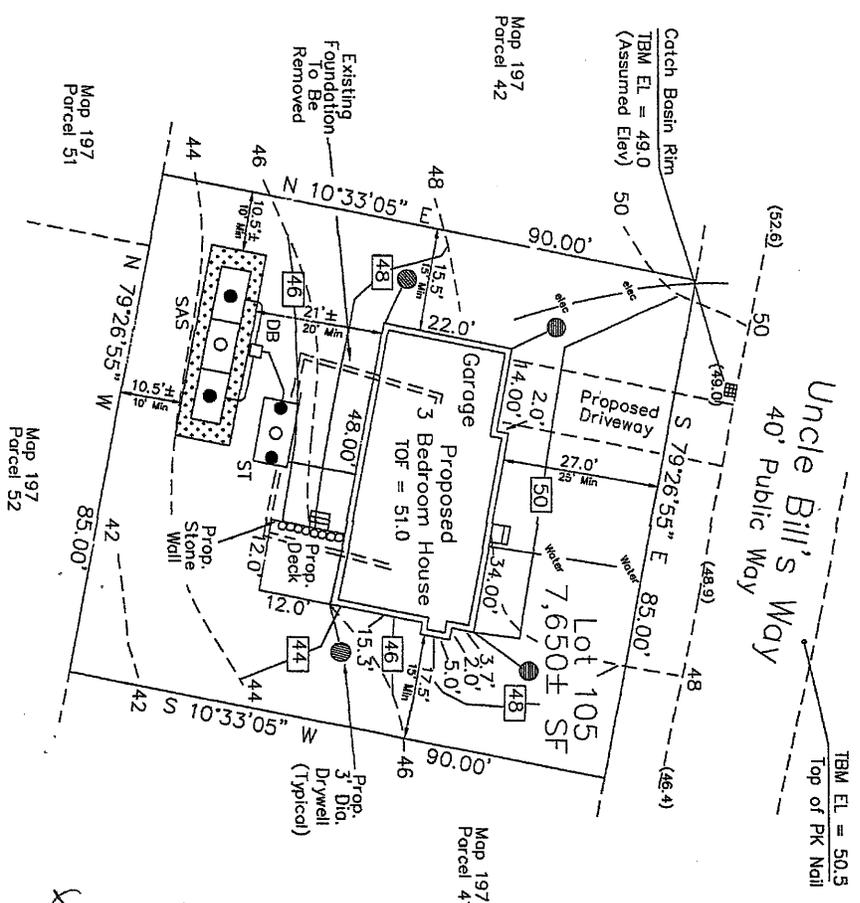
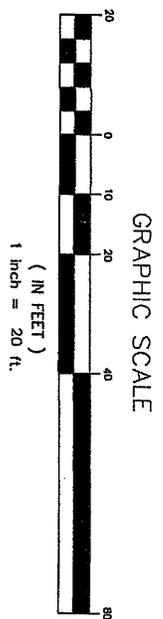


SITE PLAN



NOTE:
 LOCATION OF UTILITIES IS APPROXIMATE AND ALL UNDERGROUND AND OVERHEAD UTILITIES MUST BE DETERMINED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY WORK. THIS INCLUDES, BUT NOT LIMITED TO, REQUESTS TO DISSAFE, ANY PRIVATE UTILITY COMPANIES AND THE LOCAL WATER DEPARTMENT.

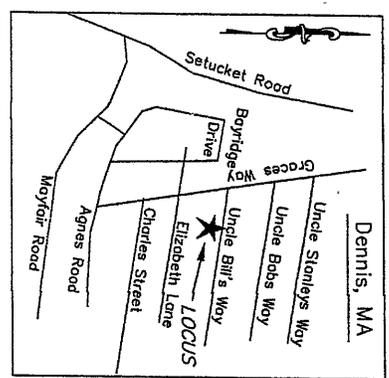


Zone: R - 40
 Area: 40,000 SF
 Frontage: 50'
 Width: 100'

Setbacks:
 Front: 25'
 Side: 15'
 Rear: 25'

Max. Coverage: 15%
 Proposed Coverage: 14.7%

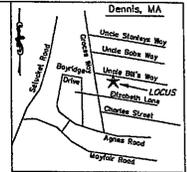
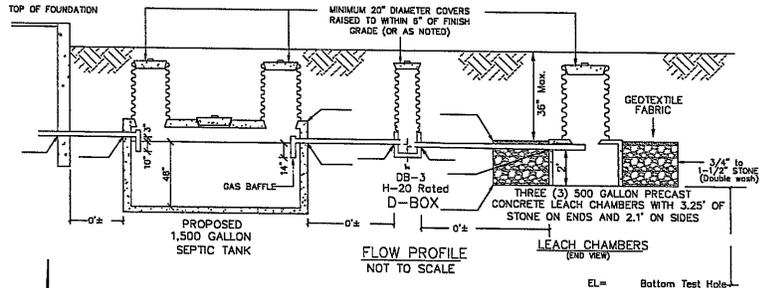
- 1.) Assessor's Map 197 Parcel 41
- 2.) C210988
- 3.) L.C. Plan 32986 B-4 Lot 105
- 4.) This property is not in a Zone II Wellhead Protection District
- 5.) This property is not in the Flood Zone.



Proposed Site Plan			
23 Uncle Bill's Way Dennis, MA			
Prepared for:	TVB Trust 400 Washington Street Suite 408 Braintree, MA	Prepared by:	All Cape Septic LLC 618 Route 28 West Yarmouth, MA 02673 (508) 771-4200 allicopesepitic@gmail.com
Date: 12/01/20	Sheet 1 of 2	By: MA	Check: SM
		Project No. AC-266SitePlan	

CONSTRUCTION NOTES

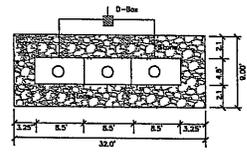
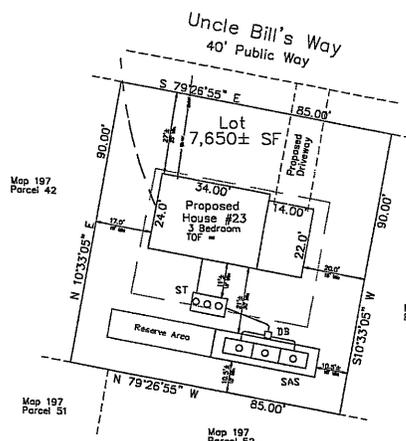
- 1.) ALL WORK SHALL CONFORM TO THE STATE ENVIRONMENTAL CODE, TITLE 8 (300 CMR 15.000); STANDARD REQUIREMENTS FOR THE STING, CONSTRUCTION, INSPECTION, UPGRADE, AND EXPANSION OF ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS AND FOR THE TRANSPORT AND DISPOSAL OF SEPTAGE, AND THE LOCAL BOARD OF HEALTH REGULATIONS.
- 2.) ANY SEPTIC SYSTEM COMPONENT INSTALLED IN A LOCATION WHERE THERE IS POTENTIAL FOR VEHICLES OR HEAVY EQUIPMENT TO PASS OVER IT SHALL BE DESIGNED TO WITHSTAND AN H-20 LOADING. IF UNDER AN IMPERVIOUS SURFACE, SYSTEM SHALL BE VENTED TO THE ATMOSPHERE.
- 3.) TO MINIMIZE UNEVEN SETTLING, SEPTIC TANKS AND D-BOX SHALL BE INSTALLED ON A STABLE MECHANICALLY-COMPACTED BASE ON SIX INCHES OF CRUSHED STONE.
- 4.) COVERS OVER THE INLET AND OUTLET TEES OF THE SEPTIC TANK, THE DISTRIBUTION BOX, AND THE SOIL ABSORPTION SYSTEM SHALL BE RAISED TO WITHIN 8" OF FINAL GRADE. LEACHING FIELDS, TRENCHES, AND OTHER SOIL ABSORPTION SYSTEMS WITHOUT ACCESS MANHOLES SHALL HAVE AT LEAST ONE (1) INSPECTION POINT CONSISTING OF REFORCED 4" PVC PIPE PLACED VERTICALLY TO THE BOTTOM OF THE SOIL ABSORPTION SYSTEM WITH A CAP, TIED WITH MAGNETIC MARKING TAPE, ACCESSIBLE TO WITHIN 3' OF FINAL GRADE.
- 5.) PIPING SHALL CONSIST OF 4" SCHEDULE 40 PVC OR EQUIVALENT. PIPE SHALL BE LAID ON A MINIMUM CONTINUOUS GRADE OF NOT LESS THAN 2% FROM THE BUILDING TO THE SEPTIC TANK, AND NOT LESS THAN 1% OTHERWISE.
- 6.) LINES FROM THE DISTRIBUTION BOX TO BE LEVEL FOR THE FIRST TWO (2) FEET BEFORE PITCHING TO THE SOIL ABSORPTION SYSTEM. DISTRIBUTION BOX SHALL BE WATER TESTED TO ASSURE EVEN DISTRIBUTION.
- 7.) GROUT TO BE USED AT ALL POINTS WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATER TIGHT SEAL.
- 8.) HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE LIMITS OF THE SEWAGE DISPOSAL FIELD DURING THE COURSE OF CONSTRUCTION OF THE SYSTEM.
- 9.) IN ACCORDANCE WITH 310 CMR 15.221, ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE.
- 10.) THERE ARE NO KNOWN WELLS WITHIN 150' OF THE PROPOSED SOIL ABSORPTION SYSTEM.
- 11.) FROM THE DATE OF THE INSTALLATION OF THE SOIL ABSORPTION SYSTEM UNTIL RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE PERIMETER SHALL BE STAKED AND FLAGGED TO PREVENT USE OF THE AREA THAT MAY CAUSE DAMAGE TO THE SYSTEM.
- 12.) THE DESIGNER WILL NOT BE RESPONSIBLE FOR THE SYSTEM AS DESIGNED UNLESS CONSTRUCTED AS SHOWN ON PLAN. ANY CHANGES SHALL BE APPROVED IN WRITING BY THE DESIGNER.
- 13.) THE BOARD OF HEALTH REQUIRES INSPECTION OF ALL CONSTRUCTION BY AN AGENT OF THE BOARD OF HEALTH AND THE DESIGNER. THE DESIGNER SHALL CERTIFY IN WRITING THAT THE SEWAGE DISPOSAL SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE TERMS OF THE PERMIT AND THE APPROVED PLANS. 48 HOURS ADVANCE NOTICE IS REQUESTED.
- 14.) LOCATION OF UTILITIES IS APPROXIMATE AND CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCEMENT OF ANY WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, REQUESTS TO DISSEAS, ANY PRIVATE UTILITY COMPANIES, AND THE LOCAL WATER DEPARTMENT.
- 15.) CONTRACTOR SHALL VERIFY THAT ALL WASTELINES ARE CONNECTED BY WATER TESTING WITHIN THE DWELLING PRIOR TO INSTALLATION OF ANY SEPTIC COMPONENTS.
- 16.) CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS PRIOR TO INSTALLATION OF ANY SEPTIC SYSTEM COMPONENTS.
- 17.) TEST HOLES COMPLETED PER STATE ENVIRONMENTAL CODE, TITLE 8. SOILS CAN BE VARIABLE AND TEST HOLE DATA IS NO GUARANTEE OF SOIL CONDITIONS IN OTHER AREAS. IF SOILS DEFER FROM THOSE SHOWN IN THE SOILS LOGS, DESIGN ENGINEER IS TO INSPECT THE SOILS PRIOR TO PROCEEDING WITH INSTALLATION OF ANY SEPTIC COMPONENTS.
- 18.) EXISTING SEPTIC COMPONENTS TO BE LOCATED, PUMPED DRY, FILLED WITH CLEAN SAND AND ABANDONED IN PLACE OR REMOVED AS REQUIRED. AREA TO BE COMPACTED TO MINIMIZE SETTLING.
- 19.) WATER/SEWER CROSSING: 4" PVC WASTELINE SHALL BE SLEEVED IN A 20" SECTION OF 6" PVC PIPE.



- 1.) Assessor's Map 197 Parcel 41
- 2.) C210958
- 3.) L.C. Plan 32986 B-4 Lot 105
- 4.) This property is not in a Zone II Wellhead Protection District
- 5.) This property is not in the Flood Zone.

SYSTEM DESIGN CALCULATIONS

SEWAGE DESIGN FLOW REQUIRED: 3 BEDROOM DWELLING @ 110 GPD / BEDROOM = 330 GPD REQUIRED
 SEWAGE DESIGN FLOW PROVIDED: THREE (3) 500 GALLON LEACH CHAMBERS WITH 3.25" STONE ON THE ENDS AND 2.1" STONE ON THE SIDES
 $V1 = [(32 \times 9.0) + 2(32' \times 9.0')] (2) \times .74 = 334 \text{ GPD PROVIDED}$
 334 GPD PROVIDED > 330 GPD REQUIRED
 SEPTIC TANK CAPACITY REQUIRED: 330 GPD X 200 = 660 GPD
 SEPTIC TANK CAPACITY PROVIDED: 1,500 GALLON SEPTIC TANK
 A GARBAGE DISPOSAL IS NOT PERMITTED WITH THIS DESIGN FLOW



Note:
 This plan is only valid for current regulations and may not be suitable for future regulation changes that may occur.

TEST HOLE LOGS

DATE OF TESTING: SOIL EVALUATOR:					BOARD OF HEALTH AGENT'S PERCOLATION RATE: LESS THAN 2 MIN/INCH (C Layer)						
Test Hole #1 (EL=41.54)	Depth	Elev.	Layer	Soil Class	Soil Color	Test Hole #3 (EL=43.2)	Depth	Elev.	Layer	Soil Class	Soil Color

NO GROUNDWATER ENCOUNTERED

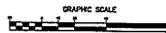
THE DENNIS BOARD OF HEALTH SHALL REQUIRE THE FOLLOWING INSPECTIONS:

- 1.) INSPECTION OF UNSATISFACTORY MATERIAL REMOVAL (IF ANY).
- 2.) VERIFICATION OF SOIL CONDITIONS AND/OR GROUNDWATER ELEVATION (IF NECESSARY).
- 3.) VERIFICATION OF CESSPOOL/LEACH PIT REMOVAL OR ABANDONMENT (IF NECESSARY).
- 4.) INSPECTION OF CONTAINMENT WALL OR FLOW BARRIER INSTALLATION (IF ANY).
- 5.) INSPECTION OF THE 3/4"-1 1/2" STONE PRIOR TO PLACEMENT.
- 6.) FINAL INSPECTION OF ALL COMPONENTS PRIOR TO BACKFILLING.
- 7.) FINAL GRADING INSPECTION.

EXCAVATION NOTES

- 1.) EXCAVATE ALL MATERIAL ABOVE SOIL HORIZON C (SEE DEEP OBSERVATION HOLE LOG) AT APPROXIMATE ELEVATION (WHERE POSSIBLE) IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING AREA.
- 2.) FILL MATERIAL SHALL CONSIST OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES, WHICH MEETS THE TEXTURAL CRITERIA PUT FORTH IN SECTION 15.25(3) OF TITLE 8.
- 3.) SCARP THE BOTTOM SURFACE OF THE EXCAVATION PRIOR TO PLACEMENT OF FILL INTO THE RETAINING STRUCTURE.
- 4.) PLACE FILL ONLY WHEN BOTTOM SURFACE IS DRY.

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 Max. Coverage: 15%
 Proposed Coverage: 14.7%



**Preliminary Sewage Disposal System
 23 Uncle Bill's Way Dennis, MA**

Prepared for:
 TVB Trust
 400 Washington Street
 Suite 408
 Braintree, MA

Prepared by:
 All Cape Septic LLC
 618 Route 28
 West Yarmouth, MA 02673
 (508) 771-4200
 allcapeseptic@gmail.com

Date: 6/21/19 Sheet 1 of 1 By: MA Check: SM Project No. AC-184