

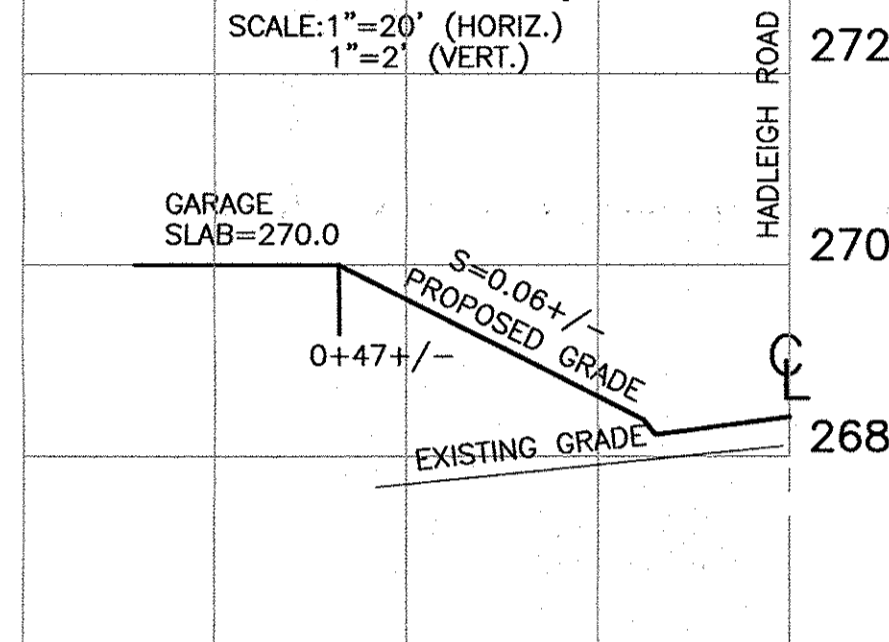
**NOTES:**

- PARCEL AREA: 1,487,644 SQ. FT. = 34.14 ACRES
- NHDES SUBDIVISION APPROVAL NUMBER: SA2002003712  
NHDES DREDGE & FILL APPROVAL NUMBER: 2001-02490  
NHDES SITE SPECIFIC APPROVAL NUMBER: WPS-6240 (JULY 11, 2002)  
NHDES WELL APPROVAL NUMBER: 993704 - HADLEIGH WOODS
- THE MAJORITY OF THE SUBJECT PROPERTY LIES WITHIN THE 140 SCS SOILS GROUP AS SHOWN ON THE SCS MAP FOR THE TOWN OF WINDHAM, NH. 140 - CHATFIELD-HOLLIS-CANTON COMPLEX
- SYSTEM LOADING CALCULATION  
TOTAL NUMBER OF UNITS = 5  
TOTAL NUMBER OF PROPOSED BEDROOMS = (2 BDRMS/UNITS) 10 TOTAL  
10 BEDROOMS X 150 GPD/BEDRM. = 1,500 GPD  
PERCOLATION RATE; 8 MIN./INCH 36"  
NHDES MINIMUM LEACHING FIELD SIZE REQUIRED = 2,530 SQ. FT.  
ELJEN (TYPE "B") IN-DRAIN CALCULATION  
3.5 + (8 MIN./INCH X 0.125) X 10 BDRMS = 45 UNITS  
USE (54) TYPE "B" ELJEN IN-DRAIN UNITS, DISTRIBUTED LOCALLY BY HUBER DESIGN, INC. P.O. BOX 401, 175 PETERBOROUGH ROAD HANCOCK, NEW HAMPSHIRE 03449, PHONE: (603) 525-4320 OR APPROVED EQUAL.
- SEPTIC TANK: USE (2) 2,000 GALLON & (1) 1,000 GALLON 2-COMPARTMENT PRECAST CONCRETE SEPTIC TANK, AS MANUFACTURED AND DISTRIBUTED BY NEW ENGLAND PRECAST CORP., ROUTE 110-AMESBURY MASS. 01913, PHONE: (800) 323-9487. UNITS 7/9 & 11/15 SHALL EACH HAVE A 2,000 GALLON TANK AND UNIT 17 SHALL HAVE A 1,000 GALLON SEPTIC TANK (OR APPROVED EQUALS.)  
DISTRIBUTION BOX: USE (2) 3 OUTLET PRECAST CONCRETE DISTRIBUTION BOX AS MANUFACTURED AND DISTRIBUTED BY ROTONDO & SONS, INC., OR APPROVED EQUAL.
- ALL PIPES EXITING THE PROPOSED DISTRIBUTION BOX SHALL HAVE AN "EQUALIZER" FLOW DIVIDER INSTALLED (OR APPROVED EQUAL). "EQUALIZER" FLOW DIVIDERS ARE DISTRIBUTED LOCALLY BY HUBER DESIGN, INC.
- INSTALL A ZABEL, MODEL A100, FILTER, OR APPROVED EQUAL, AT THE OUTLET OF THE PROPOSED SEPTIC TANK. ZABEL FILTERS DISTRIBUTED BY ZABEL ENVIRONMENTAL TECHNOLOGY 10409 WATTERSON TR. LOUISVILLE, KY 40299-3701, PHONE: (800) 221-5742.
- DESIGN INTENT: BOTTOM OF THE PROPOSED LEACHING FIELD SHALL BE 1.0 FEET ABOVE THE EXISTING GRADE ON THE UPSLOPE SIDE.
- NEAREST GROUP 6 SOIL OR NEIGHBORING WELL ARE ALL GREATER THAN 100 FEET AWAY FROM THE PROPOSED SEPTIC SYSTEM.
- PIPES LEADING TO AND EXITING FROM THE PROPOSED SEPTIC TANK AND DISTRIBUTION BOX SHALL BE SEALED WITH AN APPROVED METHOD AS TO MAKE THE JOINTS WATERTIGHT.
- SHOULD FAILURE OCCUR THIS SYSTEM SHALL BE REBUILT IN-PLACE.
- PIPES LEADING TO AND EXITING FROM THE PROPOSED SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX SHALL BE SEALED WITH AN APPROVED METHOD AS TO MAKE THE JOINTS WATERTIGHT.
- PRIOR TO THE START OF CONSTRUCTION ALL BENCHMARKS SHALL BE VERIFIED FOR ACCURACY.
- FOUNDATION DRAINS: NO FOUNDATION DRAINS SHALL BE INSTALLED WITHIN 25 FEET OF THE PROPOSED SEPTIC SYSTEM OR WITHIN 10 FEET OF THE PROPOSED SEPTIC TANK.
- NO GARBAGE DISPOSAL IS PROPOSED WITH THIS DESIGN. IF THE PROPERTY OWNER CHOOSES TO INSTALL A GARBAGE DISPOSAL THE DESIGN OF THE FIELD WILL NEED TO BE REVISED TO MEET THE ELJEN DESIGN MANUAL REQUIREMENTS FOR DESIGNS WILL GRINDERS. THE SEPTIC TANK SIZE WILL ALSO NEED TO BE INCREASED IN SIZE PER NHDES ENV-WS 1010.01.
- INSTALLATION OF THE ELJEN IN-DRAIN SYSTEM SHALL BE IN STRICT ACCORDANCE WITH THE ELJEN IN-DRAIN DESIGN AND INSTALLATION MANUAL FOR THE STATE OF NEW HAMPSHIRE, REVISED JUNE 05, 1995.
- JOINTS ARE TO BE BELLED PVC OR STANDARD SLIP COLLARS.
- ALL LATERALS TO EXIT THE DISTRIBUTION BOX AT SAME ELEVATION.
- 2' OF COVER SHALL BE PROVIDED OVER THE FIELD WHERE MOTOR VEHICLE TRAFFIC WILL PASS OVER THE SEPTIC SYSTEM FIELD. FILL SHALL NOT BE OF SATURATED SOIL.
- ALL TREES, TOPSOIL, ROOTS, AND ORGANIC MATTER MUST BE REMOVED FROM THE AREA TO BE FILLED, OUT TO AND INCLUDING THE AREA UNDER THE IMPERMEABLE SOIL BARRIER. FILL MATERIAL TO BE CLEAN MEDIUM TO COARSE SAND, FREE OF TOPSOIL, HUMUS, DREDGINGS, OR STONES OVER 6" IN DIMENSION.
- PROVIDE MEASURED TIES TO OWNER, ON THE LOCATION OF SEPTIC TANK ACCESS POINTS.
- ANY DISCREPANCIES OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE DESIGNER BEFORE CONTINUING WITH THE INSTALLATION.
- WATER SOFTENERS, JACUZZI TUBS OR SIMILAR AMMENITIES SHALL NOT BE DISCHARGED INTO THE PROPOSED FIELD. IF SUCH AMMENITIES ARE PROPOSED IN THE NEW STRUCTURE THEN THE CONTRACTOR SHALL NOTIFY THE DESIGNER AND AN ALTERNATIVE FOR THESE SERVICES WILL BE DEvised AND INSTALLED.

**TEST PIT "7/9"**  
(CONDUCTED IN AUGUST, 2003)

- 0-3" TOPSOIL (10YR 3/3) DARK BROWN, TOPSOIL, FINE LOAMY SAND, GRANULAR, FRIABLE.
  - 3"-40" (10YR 4/6) DARK YELLOWISH BROWN GRAVELLY FINE SANDY LOAM, GRANULAR, FRIABLE.
  - 40"-60" (10YR 5/6) YELLOWISH BROWN GRAVELLY SAND, GRANULAR, FRIABLE.
- E.S.H.W.T.: @ 36"  
NO WATER OBSERVED  
REFUSAL: 60"  
RESTRICTIVE LAYERS: NONE ENCOUNTERED  
PERC. RATE: 8 MIN./INCH @ 36"

**DRIVEWAY PROFILE 7/9**  
SCALE: 1"=20' (HORIZ.)  
1"=2' (VERT.)

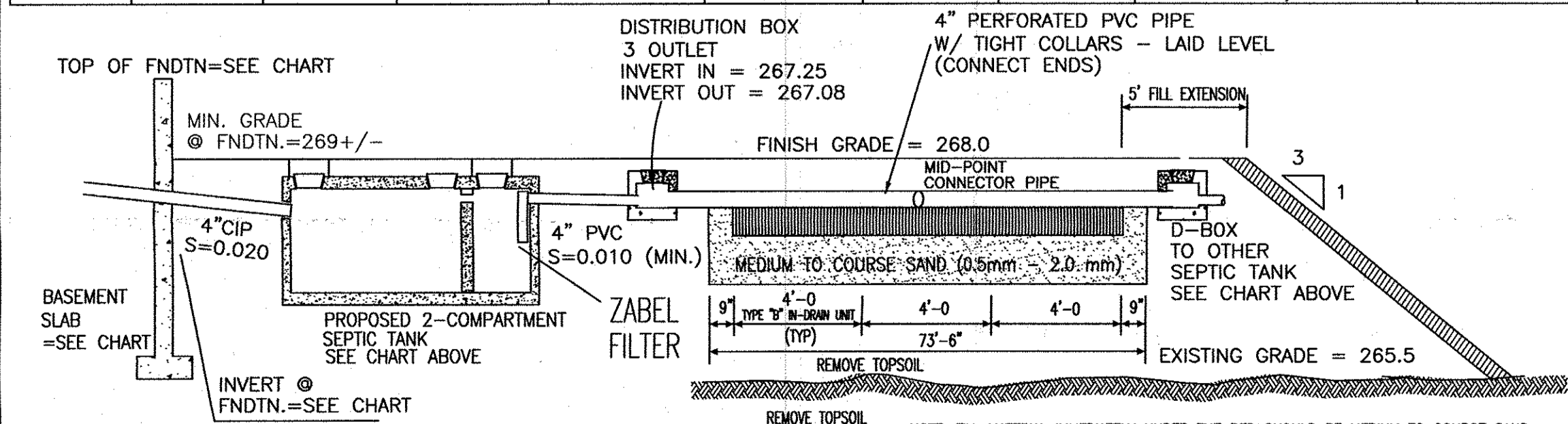


NEW HAMPSHIRE  
Designer of  
Subsurface Disposal  
Systems  
\*\*\*  
Joseph Maynard  
No. 1135  
Water Supply & Pollution Control

I CERTIFY THAT THE AS-BUILT SEPTIC TANK LOCATIONS SHOWN WERE TAKEN DIRECTLY FROM AN ACTUAL FIELD LOCATION CONDUCTED ON JUNE 06, 2004.

*Joseph Maynard*  
BENCHMARK ENGINEERING, INC.

BUILDING/UNIT#	TOP OF FOUNDATION	BASEMENT SLAB	INVERT @ BUILDING	PIPE RUN BLDG TO SEPTIC TANK	SEPTIC TANK	SEPTIC TANK INVERT IN	SEPTIC TANK INVERT OUT	PIPE RUN SEPTIC TANK TO "/> <th>INVERT</th>	INVERT
7/9	270.5	262.5	268.00	10'-4" CIP S=0.02	2,000 GALLON 2-COMPARTMENT	267.75	267.50	ST TO D-BOX 24'-4" PVC SCH-40, S=0.01	INVERT @ D-BOX 267.25
11/15	273.0	265.5	268.00	10'-4" CIP S=0.02	2,000 GALLON 2-COMPARTMENT	267.75	267.50	ST TO PIPE 16'-4" PVC SCH-40, S=0.01	INVERT @ "Y" 267.32
17	274.5	266.5	268.00	10'-4" CIP S=0.14	1,000 GALLON 2-COMPARTMENT	267.75	267.50	ST TO D-BOX 22'-4" PVC SCH-40, S=0.01	INVERT @ D-BOX 267.25



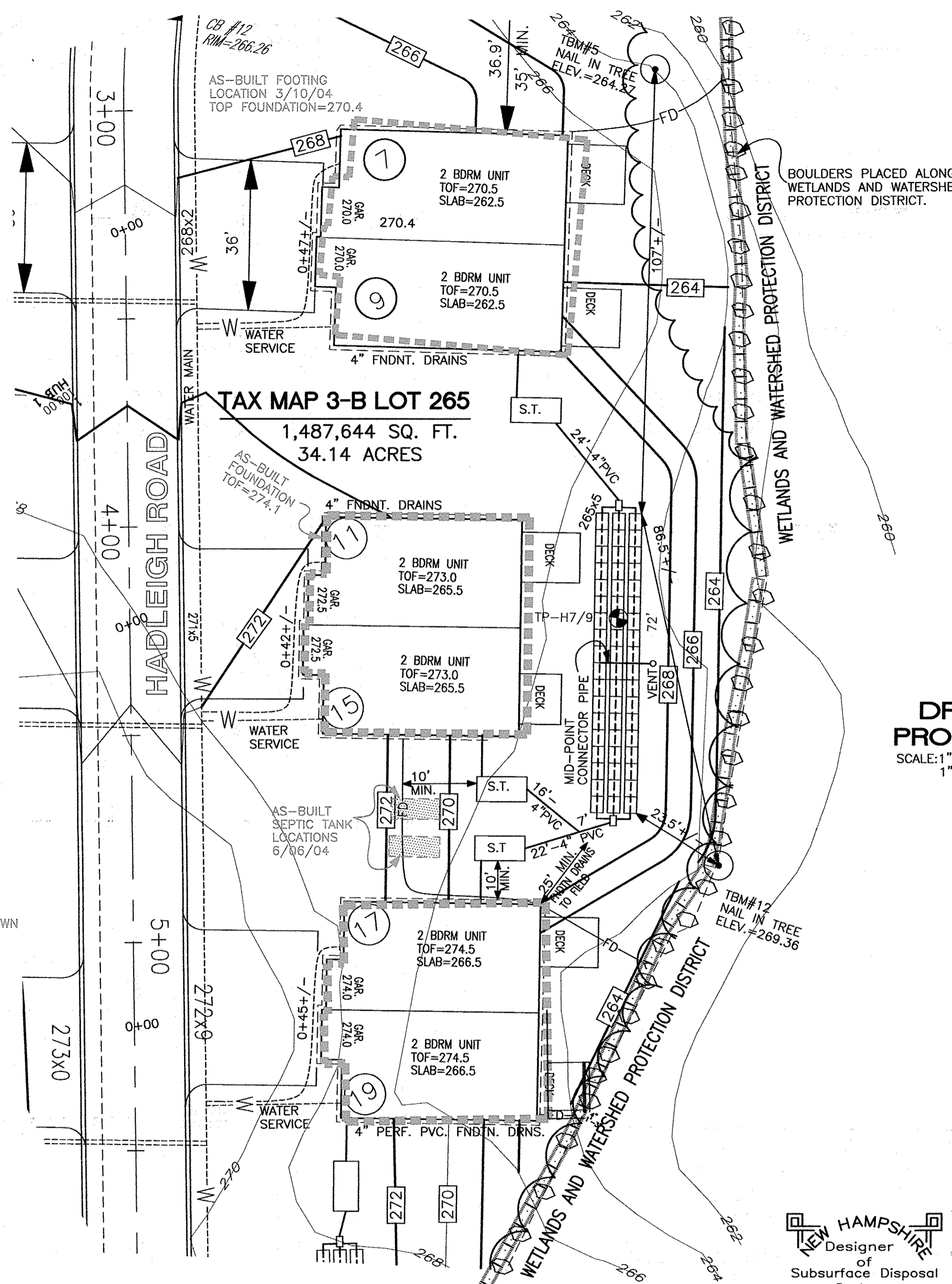
**TYPICAL SYSTEM PROFILE**

(NOT TO SCALE)

IF COVER OVER SEPTIC TANK AND D-BOX IS GREATER THAN 1'-0" INSTALL MANHOLES TO GRADE. (TYPICAL)

NOTE: FILL MATERIAL IMMEDIATELY UNDER THE BED SHOULD BE MEDIUM TO COURSE SAND (0.5 mm - 2.0 mm). IF BED BOTTOM IS RAISED MORE THAN 3.0 FEET, PLACE COURSE TEXTURED SAND IN 16" LIFTS. CONSOLIDATE AND RAKE SURFACE PRIOR TO SETTING NEXT LIFT. EXTEND 5 FEET AROUND AND UNDER 3:1 SIDESLOPES.

E.S.H.W.T. = 262.5

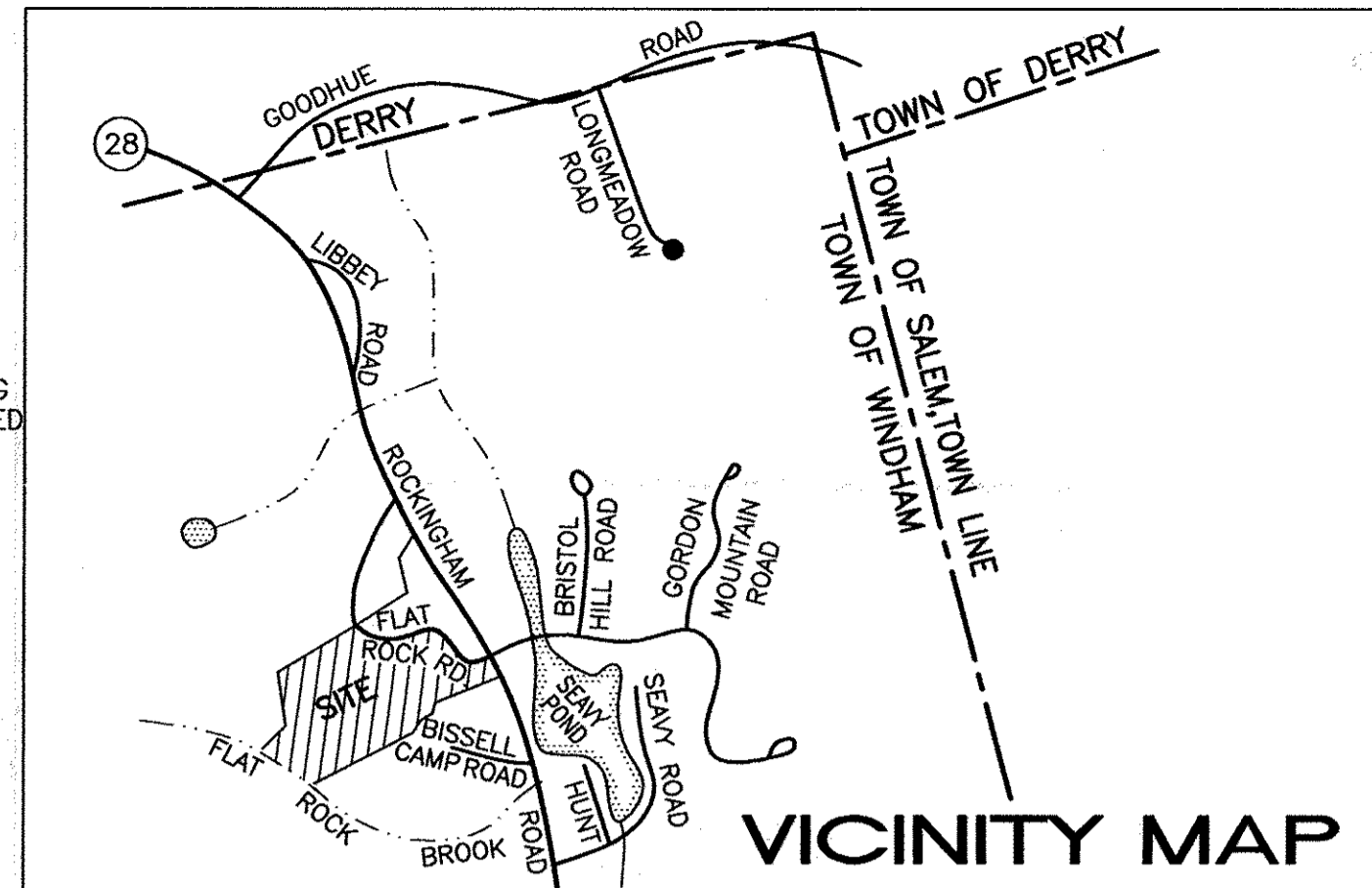


**SECTION A-A**

(NOT TO SCALE)

NOTE: FILL MATERIAL IMMEDIATELY UNDER THE BED SHOULD BE MEDIUM TO COURSE SAND (0.5 mm - 2.0 mm). IF BED BOTTOM IS RAISED MORE THAN 3.0 FEET, PLACE COURSE TEXTURED SAND IN 16" LIFTS. CONSOLIDATE AND RAKE SURFACE PRIOR TO SETTING NEXT LIFT. EXTEND 5 FEET AROUND AND UNDER 3:1 SIDESLOPES.

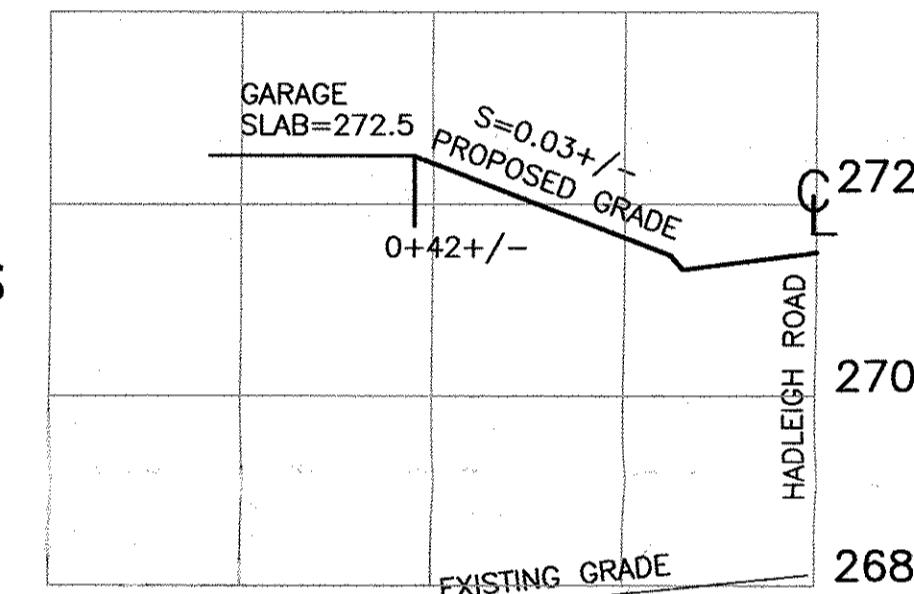
E.S.H.W.T. = 262.5



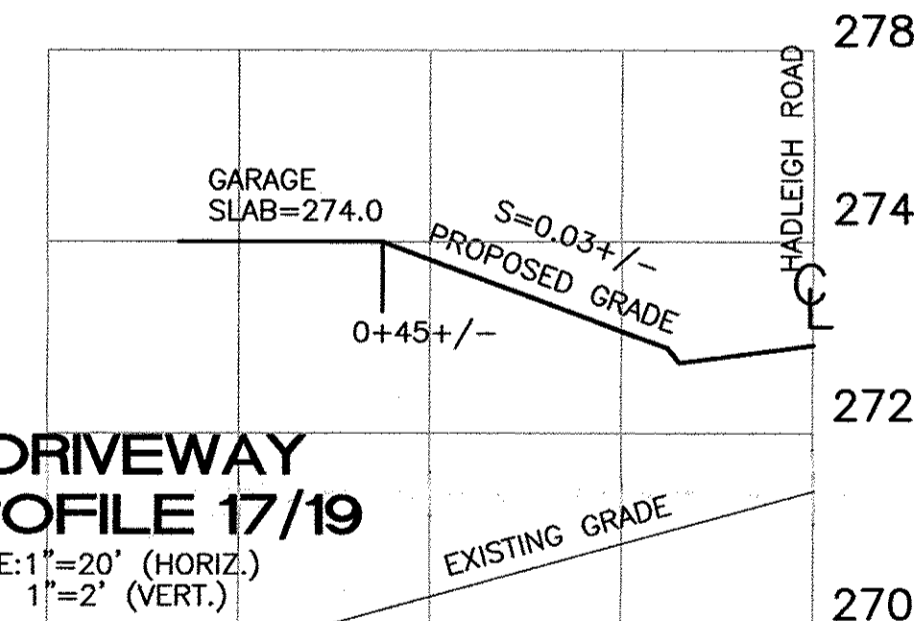
**PLAN REFERENCES:**

- SEE PLANS TITLED "SITE PLANS TAX MAP 3-B LOT 265 HADLEIGH WOODS WINDHAM, NEW HAMPSHIRE" OWNER: LOT 3-B-200 & 3-B-265 ADDRESS: 8 DEERWOOD HOLLOW CHESTER, NEW HAMPSHIRE 03036 SHEETS 1-15 OF 15 DATED MARCH 27, 2002 AS PREPARED BY THIS OFFICE.
- SEE PLAN TITLED "SUBDIVISION PLAN TAX MAP 3-B LOT 200 & TAX MAP 3-B LOT 265 TAX MAP 3-B LOT 271 NH ROUTE 28 - ROCKINGHAM ROAD WINDHAM, NEW HAMPSHIRE 03087" OWNER: LOT 3-B-200 & LOT 3-B-265 H&B HOMES CORP. ADDRESS: 8 DEERWOOD HOLLOW CHESTER, NEW HAMPSHIRE 03036 OWNER: LOT 3-B-271 ANTHONY PETA ADDRESS: 30 BRANDYWINE COMMON DERRY, NEW HAMPSHIRE 03038 SHEETS 1-12 OF 12 DATED: MARCH 27, 2002 AS PREPARED BY THIS OFFICE.

**DRIVEWAY PROFILE 11/15**  
SCALE: 1"=20' (HORIZ.)  
1"=2' (VERT.)



**DRIVEWAY PROFILE 17/19**  
SCALE: 1"=20' (HORIZ.)  
1"=2' (VERT.)



**SEPTIC SYSTEM PLAN**  
**TAX MAP 3-B LOT 265**  
**UNITS 7/9, 11/15 & 17 HADLEIGH ROAD**

WINDHAM, NEW HAMPSHIRE 03087  
OWNER OF RECORD/PREPARED FOR  
H&B HOMES CORP.  
8 DEERWOOD HOLLOW  
CHESTER, NEW HAMPSHIRE 03036  
R.C.R.D. BOOK 3575/PAGE 2759

SCALE: 1"=20' SHEET 1 OF 1 JANUARY 16, 2004

AS-BUILT SEPTIC TANKS	06-06-04
AS-BUILT FOUNDATION BY PLS	03-23-04
AS-BUILT FOUNDATION BY PLS	03-10-04
REVISIONS	DATE

**BENCHMARK ENGINEERING, INC.**  
Consulting Engineers Land Planners  
10 Commons Drive, Suite 17  
Londonderry, New Hampshire 03053  
Phone: (603) 437-5000  
Fax: (603) 437-3078