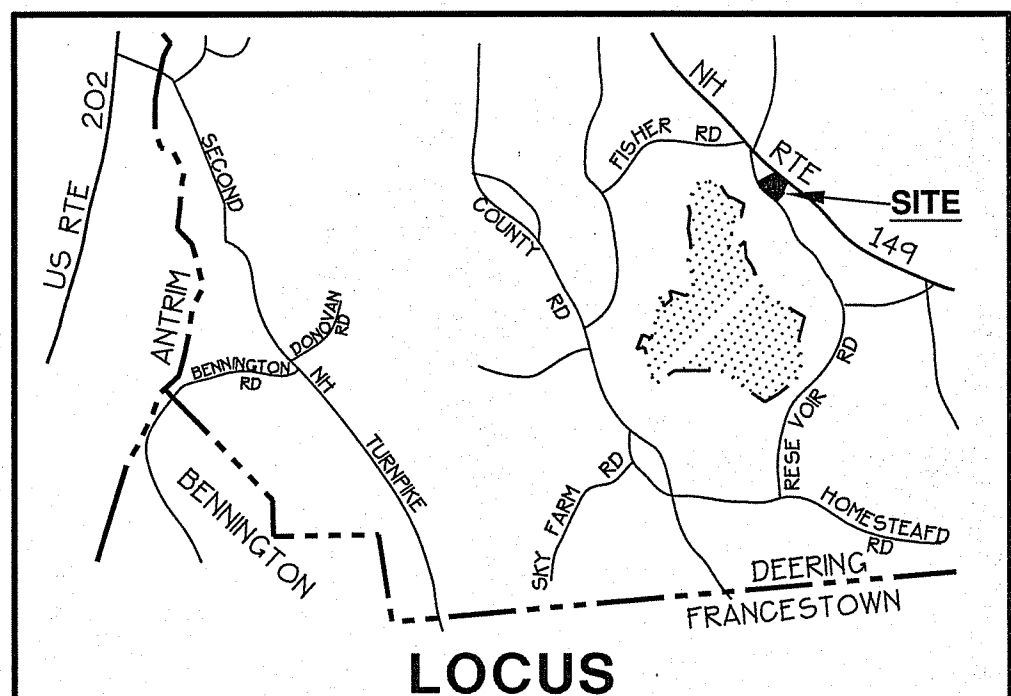
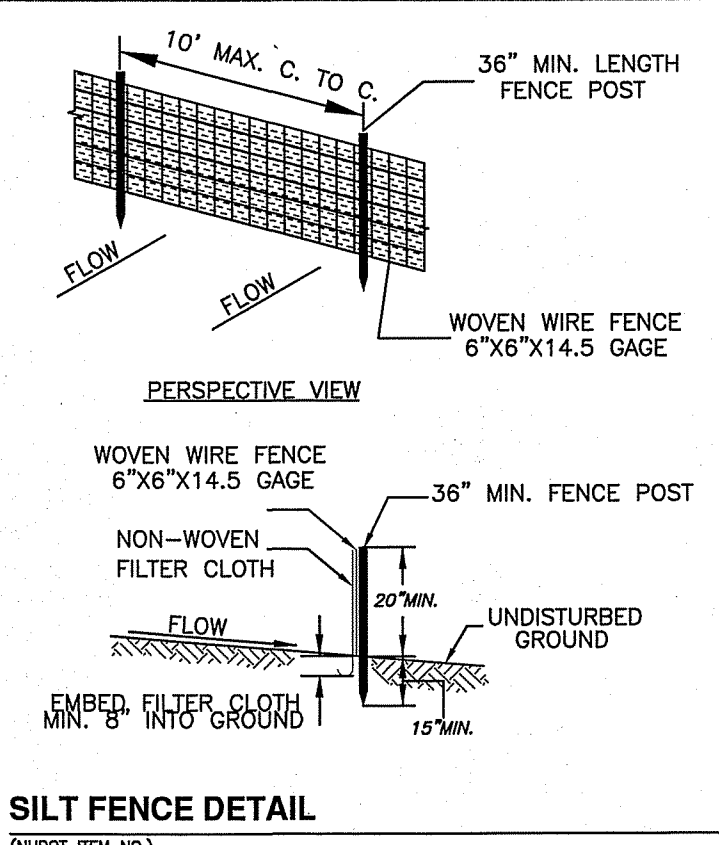
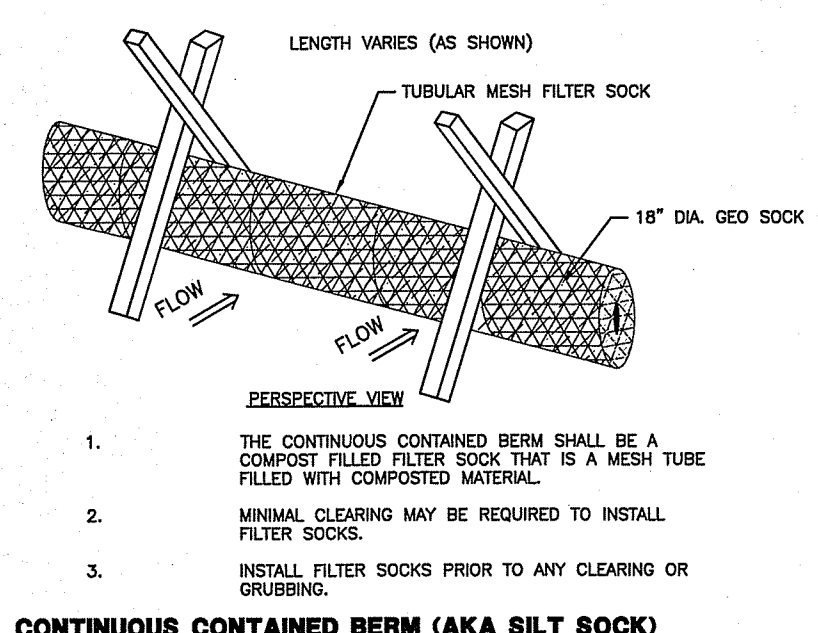
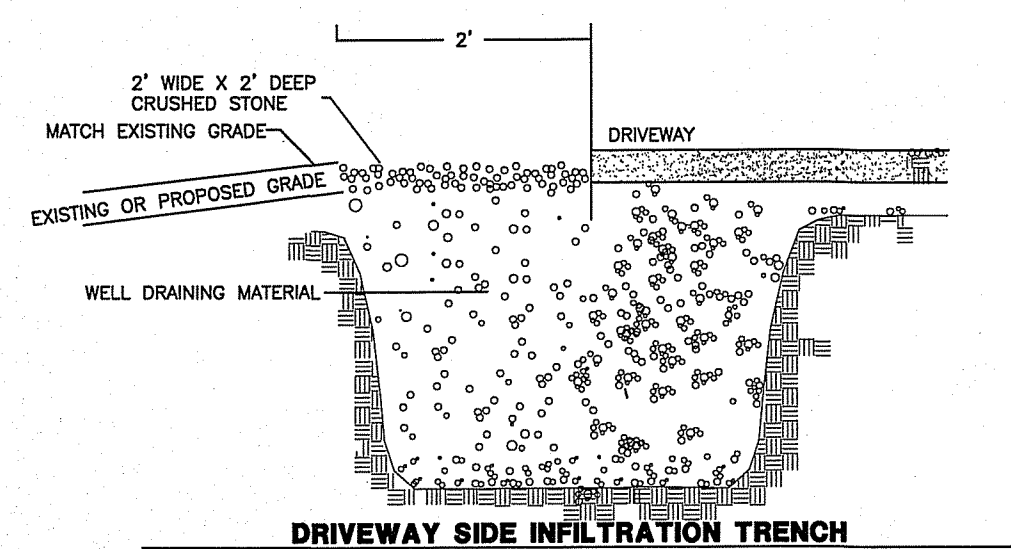
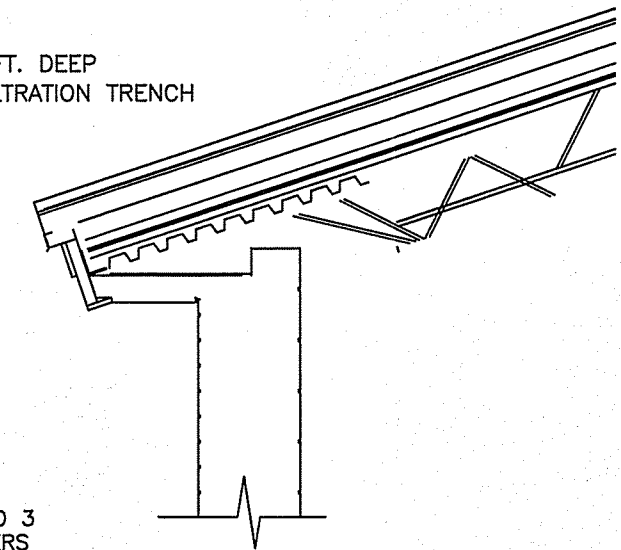


LEGEND:

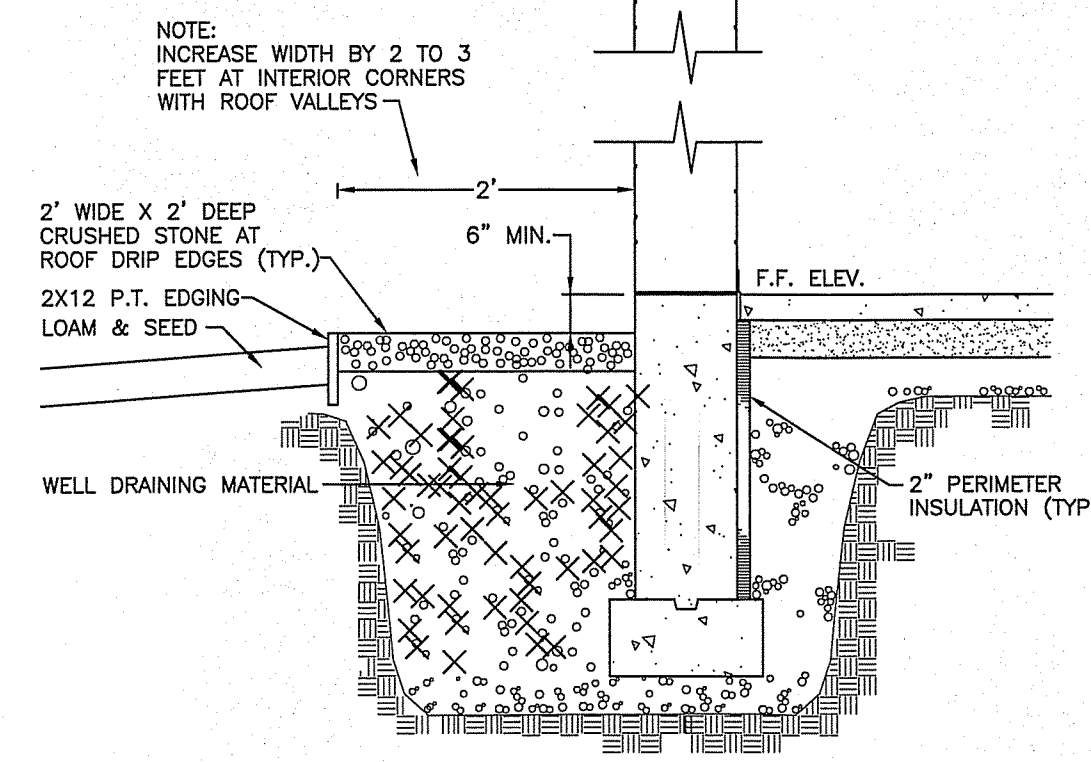
- 10 FT. CONTOUR
- - - 2 FT. CONTOUR
- [Hatched Box] 2 FT. WIDE X 2 FT. DEEP STORMWATER INFILTRATION TRENCH
- [Cross-hatched Box] EROSION CONTROL



REFERENCE PLAN
 RESIDENTIAL SEPTIC DESIGN, TAX MAP 228 LOT 10-1, RESERVOIR DRIVE DEERING NH. OWNED BY WILLIAM DEMOTTA FAMILY TRUST. 11 RESERVOIR DRIVE DEERING NH. SCALE 1" = 20'. DATED 3/18/20 BEARING CONST. APPROVAL #eCA2020041308

- NOTES**
- OWNER IS WILLIAM DEMOTTA, 11 RESERVOIR DRIVE, DEERING NH 03244
 - WETLAND CONDITIONS WERE EVALUATED IN ACCORDANCE WITH THE "CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL" (1987) AND THE REGIONAL SUPPLEMENT BY THOMAS E. CARR, CWS, ON 6/8/2020. NO WETLANDS WERE FOUND WITHIN 100 FT. OF THE DESIGN AREA SHOWN.
 - BOUNDARY INFORMATION WAS DEVELOPED ENTIRELY FROM THE REFERENCE PLAN CITED ABOVE.

- CONSTRUCTION SEQUENCE NOTES:**
- INSTALL SILTATION CONTROL FENCES OR SILT SOCKS IN LOCATIONS SHOWN ON PLANS. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATION. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN SELECTING TYPE OF EROSION CONTROL AND PLACEMENT OF ADDITIONAL EROSION CONTROL AS NEEDED DURING CONSTRUCTION.
 - CUT AND CLEAR TREES; DISPOSE OF DEBRIS.
 - REMOVE TOPSOIL AND STOCKPILE AWAY FROM ANY WETLAND. STABILIZE STOCKPILE IMMEDIATELY BY SEEDING.
 - ROUGH GRADE SITE AND CONSTRUCT DRIVE, HOUSE AND LEACHFIELD WITH ON-SITE WELL. ALL CUT AND FILL SLOPES SHALL BE STABILIZED UPON COMPLETION OF ROUGH GRADING PER THE EROSION CONTROL NOTES. INFILTRATION TRENCHES ARE TO BE INSTALLED ONCE CONSTRUCTION IS STABILIZED AND PRIOR TO SEEDING.
 - INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A DAILY BASIS AND AFTER ANY STORMS.
 - DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, CULVERTS, DITCHES, SILTATION FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
 - FINISH GRADING TO PREPARE FOR PAVING, LOAMING AND SEEDING. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
 - TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED.

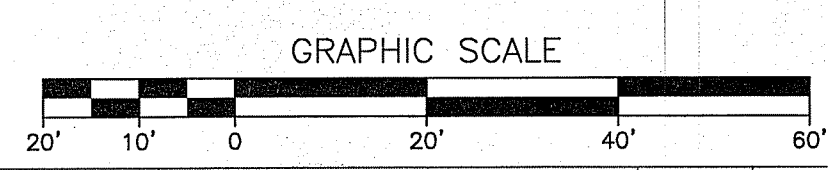
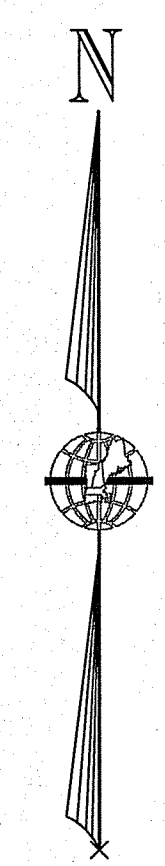
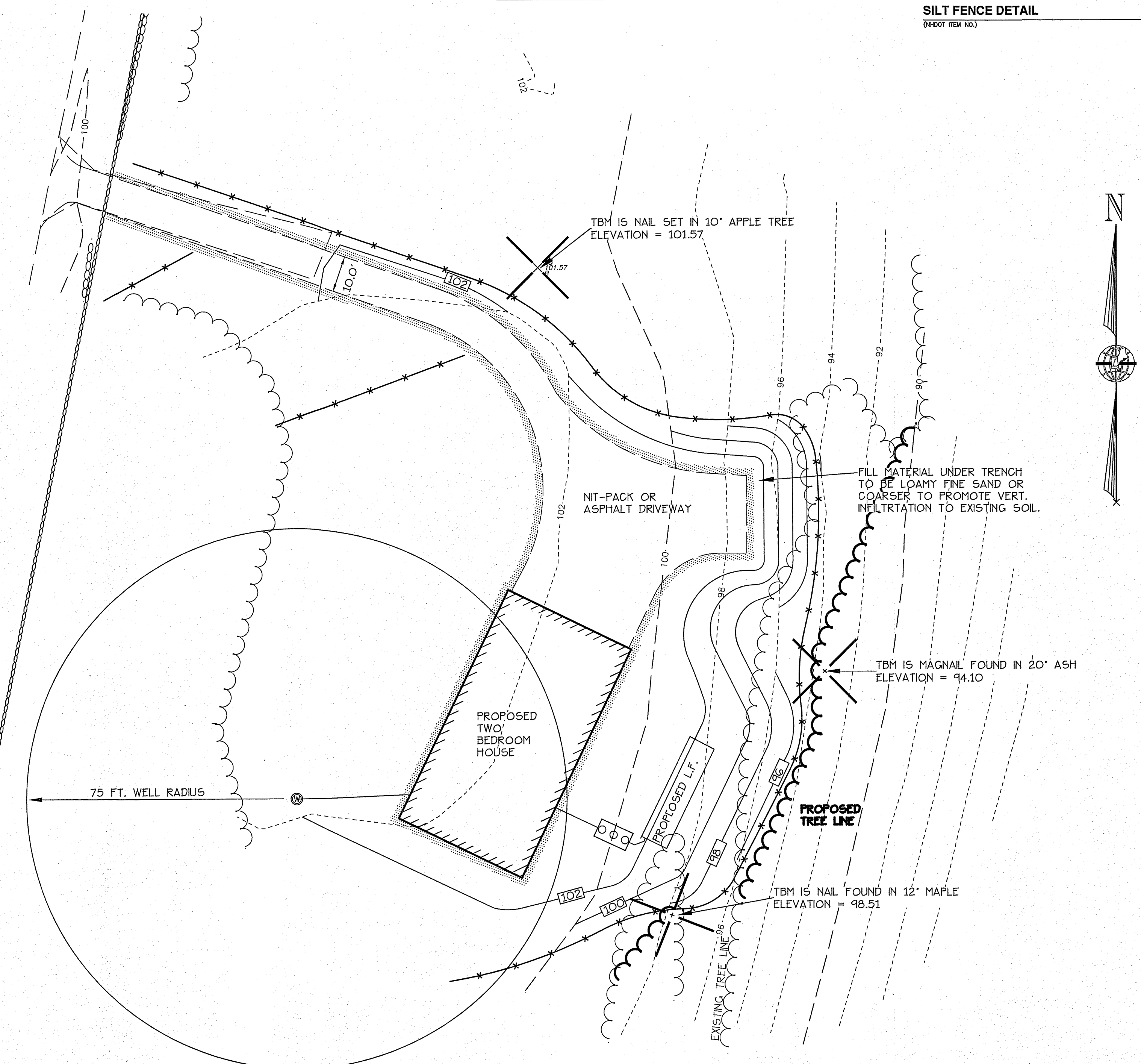


ROOF DRIPLINE
 JAN. 7, 2011
 SCALE: NONE
 7 D-1

EROSION CONTROL NOTES:

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED:

- INSTALLATION OF STRAWBALE BARRIERS AND SILTATION FENCES SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA. PREFABRICATED SILTATION FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- STRAWBALE BARRIERS AND SILTATION FENCES SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATIVE COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY RAINFALL.
- EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.
- THE AREA OF LAND EXPOSED AND THE TIME OF EXPOSURE SHALL BE MINIMIZED. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
- ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4.5" OF LOAM INSTALLED WITH SOD OR NOT LESS THAN 1.1 POUNDS OF SEED MIX PER 1,000 SQ. FT. SEED MIXTURE SHALL BE:
 TALL FESCUE - 0.45 LBS.
 CREEPING RED FESCUE - 0.45 LBS.
 BIRDSFOOT TREFOL - 0.20 LBS.
- NO FERTILIZER SHALL BE APPLIED TO VEGETATION OR SOILS LOCATED WITHIN 25 FEET OF THE REFERENCE LINE.
- LIME AND LOW PHOSPHATE SLOW RELEASE FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF SEEDING. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA NATURAL RESOURCE CONSERVATION SERVICES RECOMMENDATIONS. LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER TO CONTAIN NO MORE THAN 2% PHOSPHOROUS AND AT MINIMUM 50% SLOW RELEASE NITROGEN COMPONENTS
- PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.

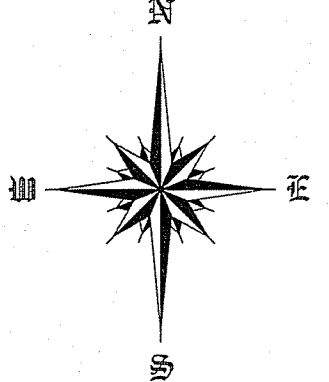


REV.	DATE	DESCRIPTION	C/O	DR	CK
A	MM/DD/YY	XXXXX	ABC	DEF	GHI

STORMWATER INFILTRATION & MANAGEMENT PLAN
 LOT 228-10-1
 PREPARED FOR
WILLIAM DEMOTTA
 DEERING, NEW HAMPSHIRE
 SCALE: 1" = 20' JUNE 8, 2020

MERIDIAN
 LAND SERVICES, INC.
 ENGINEERING | SURVEYING | PERMITTING
 SOIL & WETLAND MAPPING | SEPTIC DESIGN
 31 OLD NASHUA ROAD, AMHERST, NH 03031 TEL: 603-673-1441
 MERIDIANLANDSERVICES.COM FAX: 603-673-1584

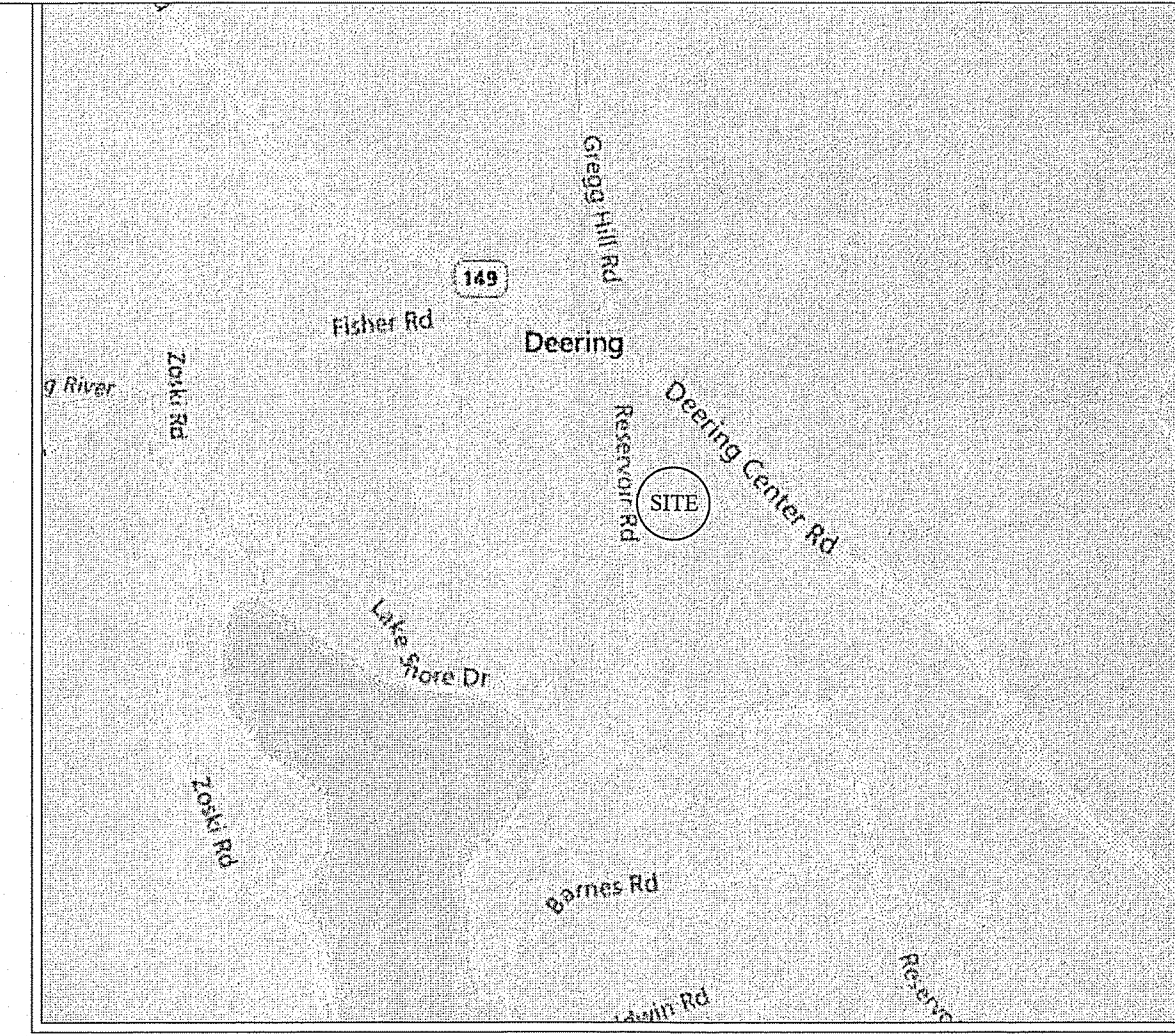
Jun 08, 2020 - 4:05pm TEC H:\mils_wp\07720_07720_228-10-1.dwg \$(XREF)??



SOIL LEGEND
 Test Pit MARCH 18, 2020
 SOIL TYPE 77D MARLOW FINE SANDY LOAM (WEBSOIL.)

0-7" LOAM / TOP SOIL 10YR 3/3
 7-20" SLIGHTLY SANDY LOAM LOOSE GRANULAR 10YR 3/4
 20-38" SILTY LOAMY SAND BECOMES TIGHT SAB 10YR 7/4
 38-60" FINE SILTY LOAMY SAND SAB TIGHT 10YR 6/3

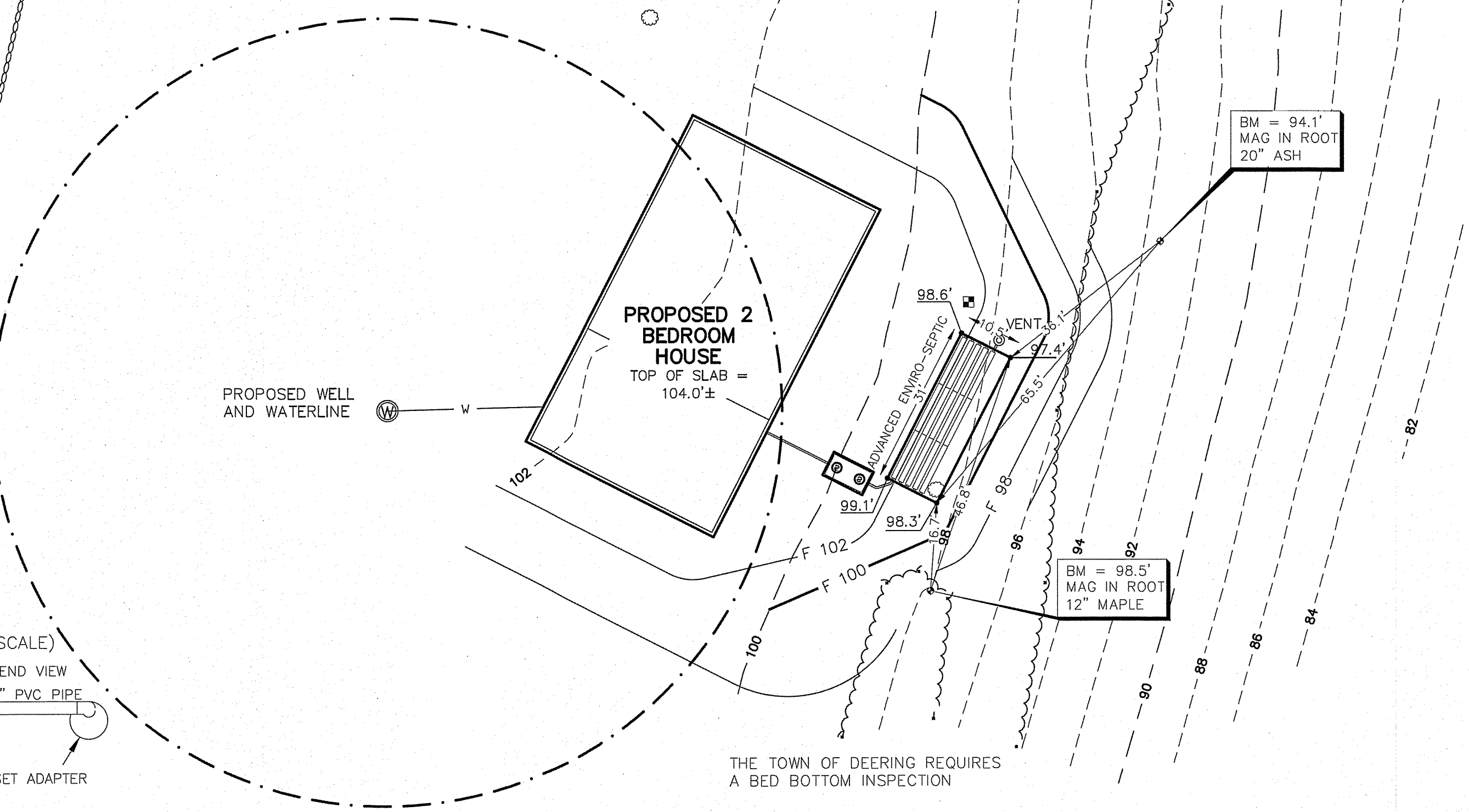
LEDGE AT n/a
 Water N/A
 Est swt @ 20"
 Perc rate 7 min/inch AT 18"



NEW HAMPSHIRE
 Designer of
 Subsurface Disposal
 Systems
 Jacques E. Belanger
 No. 816
 Water Supply & Pollution Control

J.E. BELANGER LAND SURVEYING PLLC
 LICENSED LAND SURVEYOR
 * LAND PLANNING *
 * BOUNDARY SURVEYS *
 * SUBDIVISIONS *
 * SEPTIC DESIGN *
 61 OLD HOPKINTON ROAD, DUNBARTON, NH 03846

11 RESERVOIR DRIVE



SYSTEM SPECIFICATIONS

- THE BOTTOM OF THE EFFLUENT DISPOSAL AREA SHALL BE CONSTRUCTED AT ELEVATION 99.6'
- THE SYSTEM IS GRADE 0.5' ABOVE ORIGINAL GRADE ON THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL SYSTEM.
- THE DESIGN FLOW CALCULATIONS ARE FOR PER 150 GPD (2 BEDROOMS = 300 GPD) REQUIRED LINEAR FEET OF ADVANCED ENVIRO-SEPTIC = 140' LN PROVIDED LINEAR FEET OF ADVANCED ENVIRO-SEPTIC = 150' LN
- USE A 1,250 GALLON SEPTIC TANK WITH SCHEDULE 40 PVC WITH SEALED JOINTS.
- FILL MATERIAL USED TO RAISE THE BOTTOM OF THE LEACHING FIELD SHALL BE CLEAN BANK RUN SAND, FREE OF TOP SOIL AND HUMUS, DREDDINGS, OR STONES MORE THAN 6" IN ANY DIMENSION, EXCEPT THAT THE FIRST 6 INCHES SHALL CONSIST OF MEDIUM TO COARSE TEXTURED SAND, WITH AN EFFECTIVE SIZE OF 0.25 TO 0.20 MM, NO GREATER THAN 5% PASSING THE NUMBER 200 SIEVE, AND NO PARTICLES LARGER THAN 3/4 INCHES, OR MATERIALS MEETING THE ASTM C-33 SPECIFICATIONS.
- LEACHED, SEPTIC TANK, DISTRIBUTION BOX, LEACHING PIPES, AND CHAMBERS, (IF APPLICABLE), SHALL BE LAID AS LEVEL AS POSSIBLE.
- SEPTIC TANK MUST BE 75' FROM PRIVATE WELLS, FOUNDATION DRAIN OUTLETS, SURFACE WATER, OPEN DRAINAGE INTERCEPTING THE SHWT OR VERY POORLY DRAINED WETLANDS, AND 50' FROM POORLY DRAINED SOILS.
- THE SEPTIC TANK SHALL BE NO CLOSER THAN 10', AND THE LEACH BED SHALL BE NO CLOSER THAN 15' FROM ANY FOUNDATION WITH DRAINS.
- UNDRAINED PUMP LINES, PIPE LINES UNDER WHEEL LOADS, OR LINES WITHOUT SNOW COVER SHALL BE BURIED AT LEAST 48" TO PREVENT FREEZING, OR SHALL BE INSULATED.
- UNDER NO CIRCUMSTANCES SHALL VEHICLES TRAVEL OVER OR NEAR ANY SEPTIC SYSTEM COMPONENT, UNLESS DESIGNED FOR ASH TO H-20 LOADING.
- SEPTIC TANK AND PUMP CHAMBER OPENINGS SHALL BE BROUGHT UP TO WITHIN 6" OF GRADE WITH MANHOLE RINGS AND COVERS WHEN BACKFILL EXCEEDS 18".
- WELL SHALL BE 75' FROM THE PROPERTY LINES UNLESS WAIVED BY THE STATE OR OVERLAPS INTO AREA PROTECTED FROM DEVELOPMENT. IF SYSTEM FAILURE OCCURS, THE SYSTEM MAY BE REBUILT IN PLACE.
- ANY DISCREPANCIES IN THE APPROVED PLAN & THE ACTUAL SITE CONDITIONS MUST BE REPORTED BY THE INSTALLER TO THE DESIGNER PRIOR TO CONSTRUCTION.
- PER ENV-WQ1003.13a(3) THERE ARE NO-KNOWN OF BURIAL SITES WITHIN 100' OF THE PROPOSED SITES.
- ANY WETLANDS LOCATED WITHIN 75' OF THE PROPOSED SYSTEM HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.04.

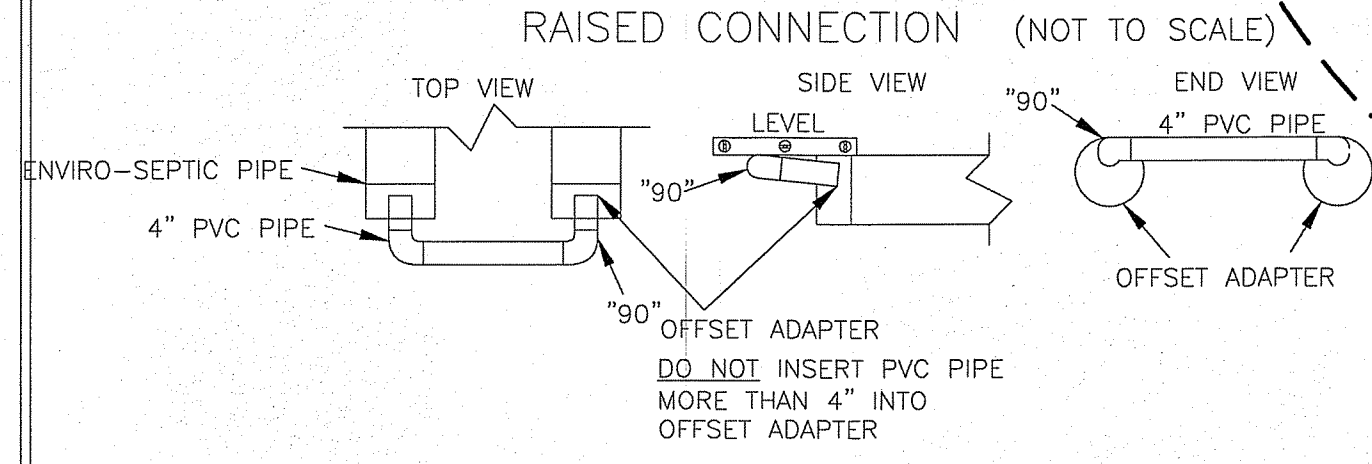
LOCUS MAP

SYSTEM REQUIREMENTS

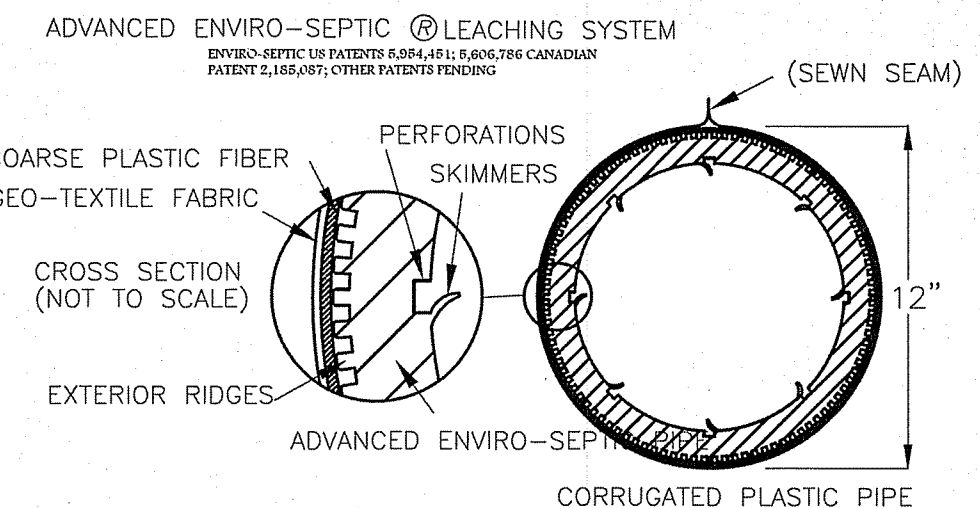
- SYSTEMS WITH MORE THAN 18" OF COVER, INSTALLED UNDER PARKING AREAS, ROADS OR SURFACE FEATURES THAT RESTRICT AIR PASSAGE THROUGH THE SOIL MUST BE VENTED.
- INSTALLERS SHALL BECOME FAMILIAR WITH THE ENVIRO-SEPTIC & SIMPLE SEPTIC LEACHING SYSTEMS DESIGN & INSTALLATION MANUAL FOR THE STATE OF NH.
- VENT OPTIONS:
 A. THROUGH AN UNUSED DISTRIBUTION BOX OUTLET.
 B) A TEE MAY BE USED IN THE PVC PIPE BETWEEN THE DISTRIBUTION BOX AND THE ENVIRO-SEPTIC PIPE.
 C) THROUGH THE 4" HOLE IN AN OFFSET ADAPTER INSTALLED AT THE END OF A SECTION OR LINE IN PLACE OF A CAP. SEE MANUFACTURER DESIGN & INSTALLATION MANUAL FOR ALL DIMENSIONAL REQUIREMENTS FOR VENTING.

NOTICE

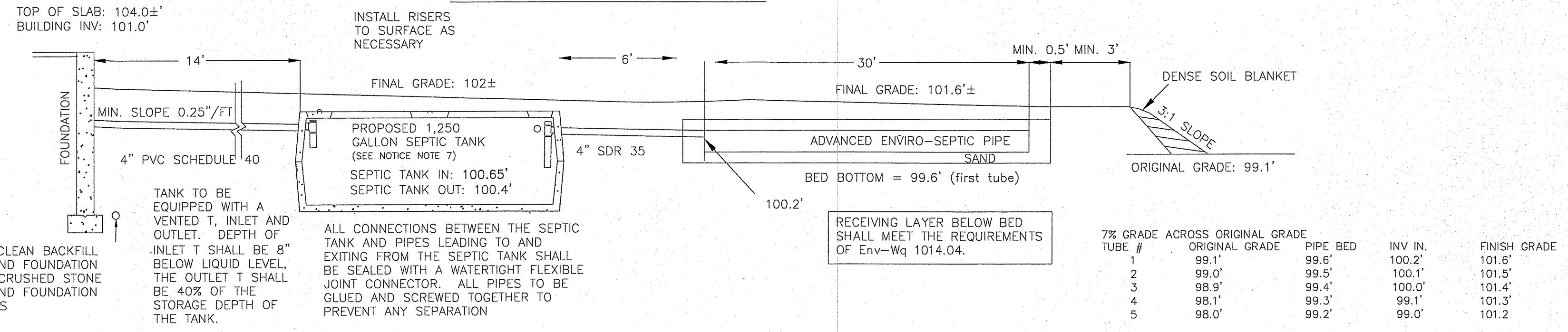
- ALL SYSTEMS MUST COMPLY WITH STATUTORY REQUIREMENTS OF RSA 485-A. THE INSTALLER IS RESPONSIBLE FOR CONFIRMING EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE PLAN SHALL BE BROUGHT TO THE DESIGNER'S ATTENTION. ANY OMISSIONS IN THE DESIGN DO NOT EXCUSE THE INSTALLER FROM THEIR RESPONSIBILITIES.
- THIS IS NOT A BOUNDARY SURVEY. ANY LOT LINES ARE APPROXIMATE AND IF IN QUESTION SHOULD BE CONFIRMED BY A LICENSED LAND SURVEYOR.
- NEVER CLIMB INTO ANY SEPTIC TANK OR PUMP CHAMBER.
- WHEN EXCAVATING NEAR UNDERGROUND UTILITIES, YOU SHOULD CONTACT DIG SAFE SYSTEM, INC IN NEW HAMPSHIRE AT 1-800-295-4977.
- THIS SYSTEM IS DESIGNED FOR RESIDENTIAL USE ONLY. THERE IS TO BE NO ROOF DRAINS, GARBAGE GRINDERS, SAUNAS OR HOT TUBS, OR WATER TREATMENT DEVICES ATTACHED TO THE SYSTEM.
- SEPTIC TANKS SHALL BE INSPECTED FOR ACCUMULATION OF SLUDGE AND SURFACE SCUM AT LEAST ONCE A YEAR. WHEN THE COMBINED THICKNESS OF THE SLUDGE AND SURFACE SCUM EQUAL 1/3 OR MORE OF THE TANK DEPTH, THE TANK SHALL BE PUMPED BY A LICENSED SEPTIC TANK PUMPER.
- IF A GARBAGE GRINDER IS ADDED OR PRESENT TO THE SYSTEM, THE TANK VOLUME SHALL BE INCREASED BY 50%.
- INSTALLATION OF LEACH FIELDS DURING WET AND WINTER CONDITIONS MAY CAUSE PREMATURE FAILURE DUE TO DAMAGED SOIL STRUCTURE BY EQUIPMENT IN AND AROUND LEACH AREAS. EXTREME CAUTION SHOULD BE TAKEN WHEN WORKING IN AND AROUND THE LEACH SITE.



NOTES:
 - ALL MATERIAL TO BE USED AS FILL SHALL BE AS SPECIFIED IN THE NHDES SEPTIC DESIGN MANUAL.
 - TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING BEDDING MATERIAL.
 - FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS.
 - MIN 10" / MAX 18" COVER OVER ENVIRO-SEPTIC PIPE.
 - ALL SMEARED OR COMPACTED SURFACES INCLUDING TEXTURAL CHANGES SHALL BE RAKED TO A DEPTH OF 1" BEFORE PLACING FILL OR CRUSHED STONE. THIS IS ESSENTIAL IN ORDER TO PROTECT THE NATURAL ABSORPTION QUALITIES OF THE SOIL BY PREVENTING AN UNRESTRICTED TRANSITION BETWEEN MATERIALS.
 - OPEN EXCAVATIONS SHALL BE PROTECTED FROM STORM RUNOFF TO PREVENT THE ENTRANCE OF SILT AND DEBRIS, AND FINISH GRADING SHOULD SHED STORM WATER AWAY FROM THE SYSTEM.



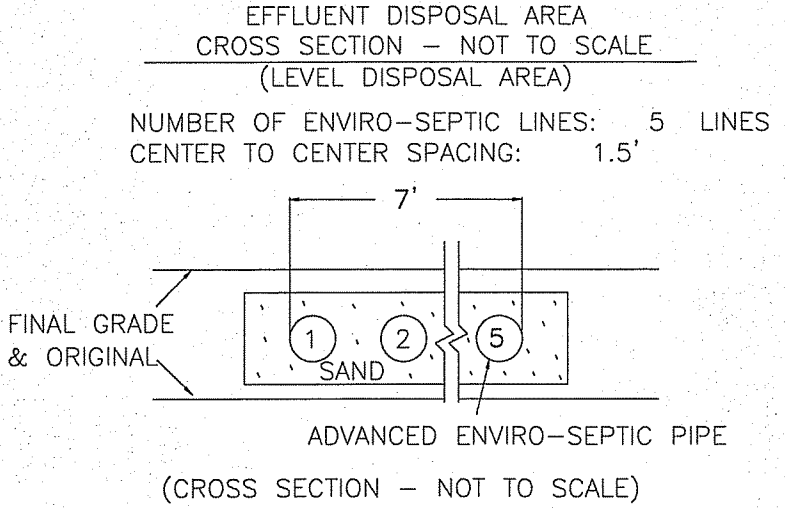
EFFLUENT DISPOSAL SYSTEM



7% GRADE ACROSS ORIGINAL GRADE	ORIGINAL GRADE	PIPE BED	INV IN	FINISH GRADE
1	99.1'	99.6'	100.2'	101.6'
2	99.0'	99.5'	100.1'	101.5'
3	98.9'	99.4'	100.0'	101.4'
4	98.1'	99.3'	99.1'	101.3'
5	98.0'	99.2'	99.0'	101.2'

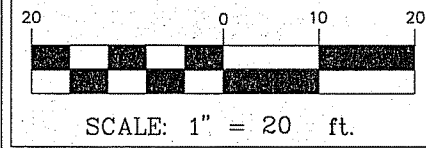
SYSTEM RECOMMENDATIONS

REVIEWED AND APPROVED
 IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES WATER DIVISION
 DATE: 4/13/2020
 #eCA2020041308



OWNED BY:
 WILLIAM DEMOTTA
 FAMILY TRUST
 11 RESERVOIR DRIVE
 DEERING NH 03244

RESIDENTIAL SEPTIC DESIGN
 TAX MAP 228 LOT 10-1
 RESERVOIR DRIVE DEERING NH



DATE: 3/18/20
 DWG: S1