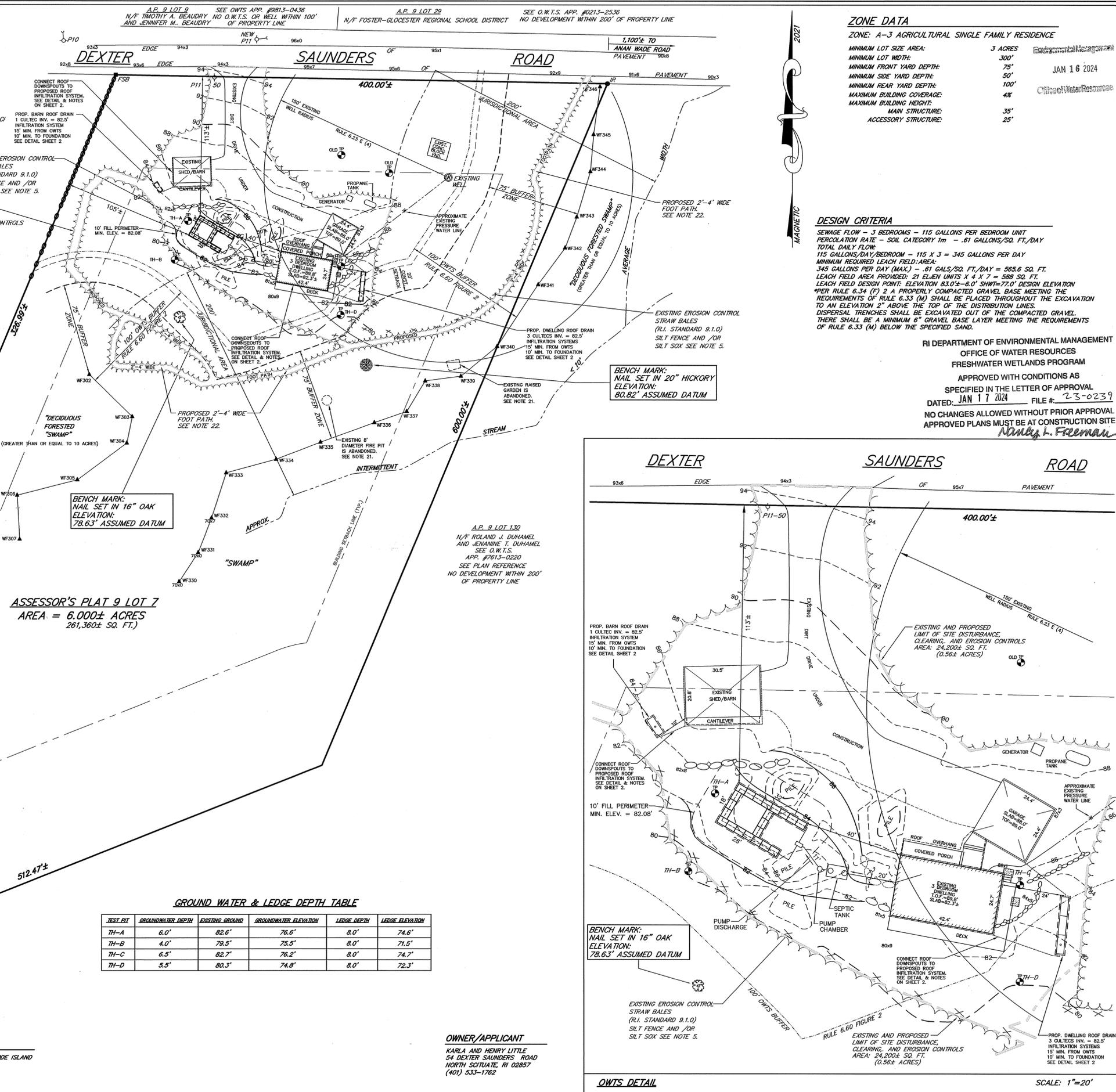


- NOTES**
- THE WETLAND EDGES (SWAMP) WERE DELINEATED BY APPLIED BIO-SYSTEMS, INC. IN MAY 2014, AND LOCATED IN THE FIELD BY SCITUATE SURVEYS, INC. IN OCTOBER 2021. THE LOCATION OF THE INTERMITTENT STREAMS WAS DERIVED DIGITALLY FROM THE LOCATIONS SHOWN ON THE REFERENCE PLAN.
 - SITE IS WITHIN FLOOD HAZARD ZONE X (AREAS OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAN). REFERENCE F.I.R.M. MAP PANEL #4400705555 DATED MARCH 2, 2008.
 - TOPOGRAPHY AND ELEVATIONS SHOWN ARE FROM AN ON-SITE SURVEY PERFORMED IN AUGUST AND SEPTEMBER 2023 USING CONVENTIONAL (TOTAL STATION) SURVEY METHODS. THE HORIZONTAL AND VERTICAL DATUMS ARE ASSUMED.
 - THE SITE IS CURRENTLY BEING DEVELOPED AS A SINGLE FAMILY DWELLING.
 - STRAW BALE EROSION CHECK (R.I. STANDARD 9.1.0), SILT FENCE AND/OR SILT SOX SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES AND SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
 - REFERENCE APPROVED O.W.T.S. APPLICATION 2113-1839 AND APPROVED WETLANDS NON-JURISDICTIONAL APPLICATION 21-0305 BOTH DATED DECEMBER 29, 2021.
 - NO WORK IS ALLOWED WITHIN STATE REGULATED WETLANDS EXCEPT AS SPECIFICALLY SHOWN. EXISTING ALTERATION TO JURISDICTIONAL WETLANDS IS TO BE ALLOWED TO RE-VEGETATE NATURALLY.
 - ALL IMPROVEMENTS SHALL BE ACCURATELY LOCATED AND STAKED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ALL DISTURBED AREAS SHALL BE STABILIZED WITH 4" LOAM AND SEED OR SOD, PROPOSED SLOPES SHALL BE 3:1 (MAXIMUM).
 - ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF THE R.I.D.E.M. O.W.T.S. AND WETLANDS PERMITS AND IN COMPLIANCE WITH ALL TOWN REGULATIONS.
 - AREAS OUTSIDE OF THE PERMANENT LIMITS OF DISTURBANCE SHALL REMAIN IN A NATURAL UNDISTURBED STATE.
 - ALL STAGES OF O.W.T.S. CONSTRUCTION MUST BE SUPERVISED BY THE SYSTEM DESIGNER.
 - EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. DIG SAFE AND APPROPRIATE UTILITY AUTHORITIES SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION FOR ACCURATE UTILITY LOCATIONS.
 - ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BouldERS AND OTHER REFUSE SHALL BE DISCARDED OFF SITE OUTSIDE OF ALL JURISDICTIONAL WETLANDS UNLESS OTHERWISE SPECIFIED.
 - THERE ARE NO EXISTING OR PROPOSED PUBLIC WATER SUPPLY SOURCES WITHIN 500' OF LOT 7 OTHER THAN THOSE SHOWN ON THE PLAN.
 - THERE ARE NO EXISTING OR PROPOSED SEWAGE DISPOSAL SYSTEMS WITHIN 25' OF THE PROPOSED WATER SUPPLY LINE OTHER THAN THOSE SHOWN ON THE PLAN.
 - THERE ARE NO EXISTING OR PROPOSED INDIVIDUAL WATER SUPPLIES WITHIN 200' OF THE PROPOSED ON-SITE WASTEWATER TREATMENT SYSTEM OTHER THAN THOSE SHOWN ON THE PLAN.
 - THE SITE IS WITHIN THE SCITUATE RESERVOIR WATERSHED CRITICAL RESOURCE AREA.
 - THE SITE IS NOT WITHIN A RHODE ISLAND NATURAL HERITAGE AREA.
 - THE SITE IS WITHIN RIVER REGION 1 AS DEPICTED IN THE WETLANDS REGULATIONS.
 - THE EXISTING 8" DIAMETER FIRE PIT AND THE EXISTING RAISED GARDEN LOCATED WITHIN THE BUFFER ZONE HAVE BEEN ABANDONED AND THE AREAS ARE TO BE ALLOWED TO RE-VEGETATE NATURALLY.
 - THE PROPOSED 2'-4" WIDE FOOT PATHS IN THE BUFFER ZONE ARE NOT TO EXCEED 4" IN WIDTH. ANY DISTURBED AREAS BEYOND THE 4" WIDE FOOT PATH MUST BE ALLOWED TO RE-VEGETATE NATURALLY. THE TOTAL ALTERATION TO THE BUFFER ZONE BY THE FOOT PATHS IS 2,900± SQUARE FEET.

- LEGEND**
- A.P. ASSESSOR'S PLAT
 - N/F NOW OR FORMERLY
 - SQ. FT. SQUARE FEET
 - STONE WALL
 - WETLAND DELINEATION FLAG
 - WF334 EXISTING SPOT ELEVATION
 - 95.6 EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EXISTING BOULDER RETAINING WALL
 - PROPOSED BOULDER RETAINING WALL
 - EXISTING EROSION CONTROL
 - UTILITY POLE
 - F59 FIELD STONE BOUND FOUND
 - IR IRON ROD FOUND
 - SOIL EVALUATION TEST HOLE

PLAN REFERENCE
 *ROLAND J. & JEANNINE T. DUHAMEL ASSESSORS PLAT 9 LOTS 7 & 130 19 DEXTER SAUNDERS ROAD GLOUCESTER, RHODE ISLAND ADMINISTRATIVE SUBDIVISION . . . JANUARY 2015 JOB NO. 2015-9 SHEET 1 OF 1 REVISION 1 2/11/15 . . .
 BY NATIONAL SURVEYORS-DEVELOPERS INC.
 RECORDED IN THE TOWN OF GLOUCESTER AS MAP #862 HANGING FILE 503.



GROUND WATER & LEDGE DEPTH TABLE

TEST PIT	GROUNDWATER DEPTH	EXISTING GROUND	GROUNDWATER ELEVATION	LEDGE DEPTH	LEDGE ELEVATION
TH-A	6.0'	82.6'	76.6'	8.0'	74.6'
TH-B	4.0'	79.5'	75.5'	8.0'	71.5'
TH-C	6.5'	82.7'	76.2'	8.0'	74.7'
TH-D	5.5'	80.3'	74.8'	8.0'	72.3'

ZONE DATA
 ZONE: A-3 AGRICULTURAL SINGLE FAMILY RESIDENCE
 MINIMUM LOT SIZE AREA: 3 ACRES
 MINIMUM LOT WIDTH: 300'
 MINIMUM FRONT YARD DEPTH: 75'
 MINIMUM SIDE YARD DEPTH: 50'
 MINIMUM REAR YARD DEPTH: 100'
 MAXIMUM BUILDING COVERAGE: 4%
 MAXIMUM BUILDING HEIGHT:
 MAIN STRUCTURE: 35'
 ACCESSORY STRUCTURE: 25'

DESIGN CRITERIA
 SEWAGE FLOW - 3 BEDROOMS - 115 GALLONS PER BEDROOM UNIT
 PERCOLATION RATE - SOIL CATEGORY 1m - .61 GALLONS/SQ. FT./DAY
 TOTAL DAILY FLOW: 115 GALLONS/DAY/BEDROOM - 115 X 3 = 345 GALLONS PER DAY
 MINIMUM REQUIRED LEACH FIELD AREA: 345 GALLONS PER DAY (MAX.) - .61 GALS/SQ. FT./DAY = 565.6 SQ. FT.
 LEACH FIELD AREA PROVIDED: 21 ELVEN UNITS X 4' X 7' = 588 SQ. FT.
 LEACH FIELD DESIGN POINT: ELEVATION 83.0±-6.0' SWH=77.0' DESIGN ELEVATION
 PER RULE 6.34 (F) 2 A PROPERLY COMPACTED GRAVEL BASE MEETING THE REQUIREMENTS OF RULE 6.33 (M) SHALL BE PLACED THROUGHOUT THE EXCAVATION TO AN ELEVATION 2" ABOVE THE TOP OF THE DISTRIBUTION LINES.
 DISPERSAL TRENCHES SHALL BE EXCAVATED OUT OF THE COMPACTED GRAVEL. THERE SHALL BE A MINIMUM 6" GRAVEL BASE LAYER MEETING THE REQUIREMENTS OF RULE 6.33 (M) BELOW THE SPECIFIED SAND.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: JAN 17 2024 FILE #: 23-0239
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

OWNER/APPLICANT
 KARLA AND HENRY LITTLE
 54 DEXTER SAUNDERS ROAD
 NORTH SCITUATE, RI 02857
 (401) 533-1782

OWTS DETAIL

SCALE: 1"=20'

SCITUATE SURVEYS, INC.
 GOVERNOR ROAD AVENUE
 401-821-8101
 LAND SURVEYING/MAPPING/SITE PLANNING

DATE: OCTOBER 10, 2023 REVISION: JANUARY 9, 2024

PROJECT NO.: SS3014.01 SHEET 1 OF 3
 DRAWING NO.: SS5099

ANGELLO M. BAIKONDI
 1762
 PROFESSIONAL LAND SURVEYOR

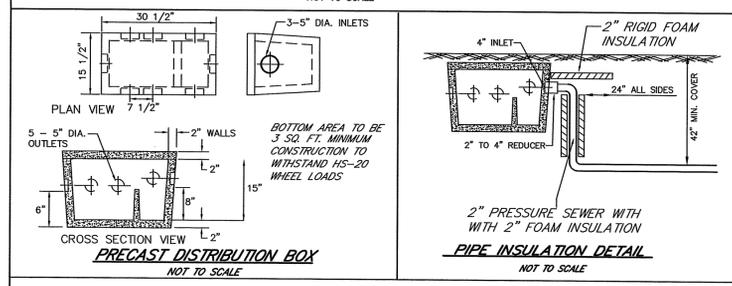
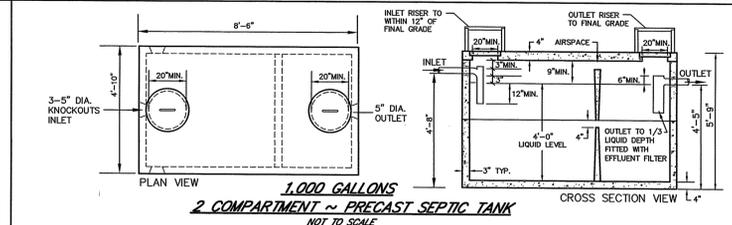
PLAN SHOWING EXISTING & PROPOSED IMPROVEMENTS AND ON-SITE WASTEWATER TREATMENT SYSTEM
 ASSESSOR'S PLAT 9 LOT 7
 54 DEXTER SAUNDERS ROAD
 GLOUCESTER, RHODE ISLAND
 PREPARED FOR: KARLA & HENRY LITTLE
 JAN 18 2024
 Office of Water Resources

LEACH FIELD DOSING CALCULATIONS

LEACH FIELD 90 L.F. X .0873 (4" PIPE VOL.) = 7.86 C.F.
 60% X 7.86 = 4.72 C.F.
 75% X 7.86 = 5.90 C.F.
 DISCHARGE 11 TOTAL L.F. OF 2" PIPE
 11.0 x 0.022 (2" PIPE VOL.) = 0.24 C.F.
 5.90 C.F. + 0.24 C.F. = 6.14 C.F.
 1-24" DIAMETER PUMP CHAMBER = 3.14 S.F.
 6.14 C.F. + 3.14 S.F. = 1.96' MAXIMUM DRAWDOWN

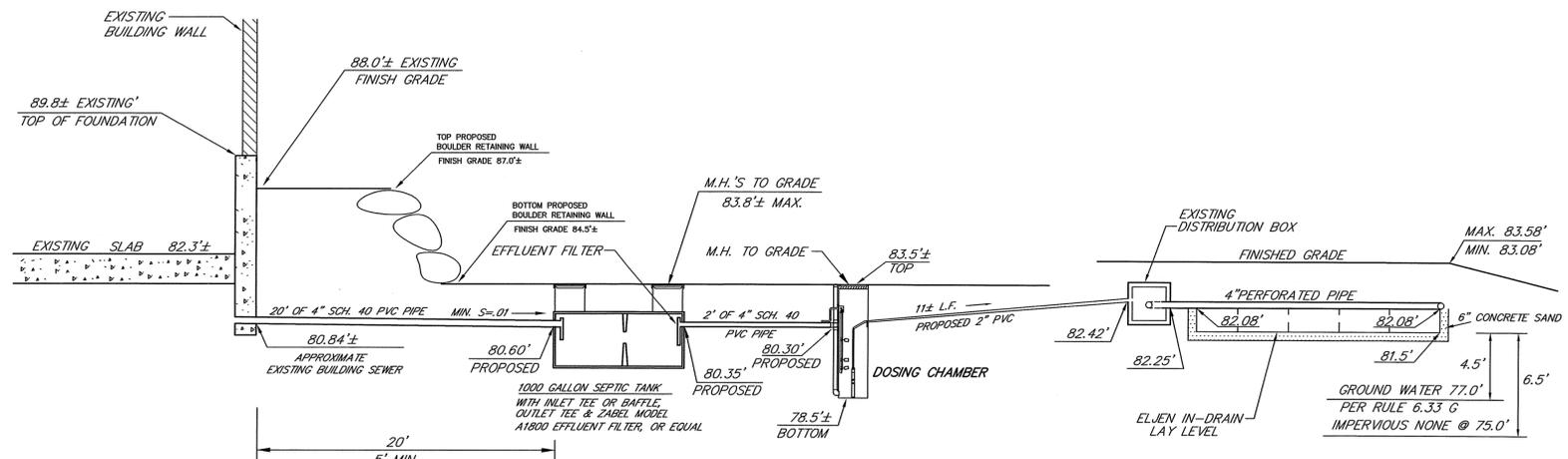
DOSING VOLUME CALCULATIONS DWELLING

VOLUME = $\pi R^2 H$
 PUMP ON (78.88') - PUMP OFF (78.71') = 1.17' (12") DRAWDOWN
 $V = \pi R^2 1.17' = 3.68 \text{ CF}$
 1 CUBIC FOOT = 7.5 GALLONS
 $3.68 \times 7.5 = 27.6 \text{ GALLONS PER DOSE MAX.}$
 MAX. DOSE = 2 GAL. PER ELJEN UNIT
 21 ELJEN UNITS x 2 GALLONS = 42 GALLONS MAX.
 DOSING CHAMBER @ 27.6 GALLONS PER DOSE MAX.

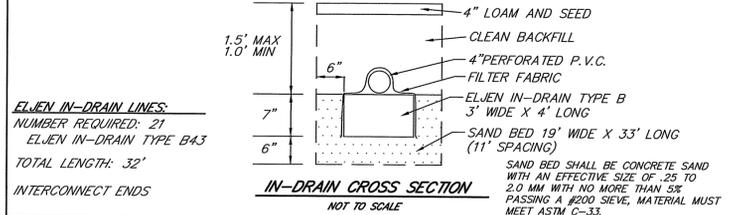


DESIGN AND CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT RULES AND REGULATIONS, AS AMENDED.
- THE TOP OF FOUNDATION ELEVATION SHOWN HAS BEEN DESIGNED FOR O.W.T.S. PURPOSES ONLY. THE OWNER AND/OR CONTRACTOR IS ADVISED TO DETERMINE WHETHER THE BASEMENT FLOOR OF THE PROPOSED DWELLING IS AT OR BELOW THE GROUND WATER TABLE AND, IF SO, RAISE THE FOUNDATION ACCORDINGLY.
- THE CONTRACTOR SHALL NOTIFY THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THIS SITE PLAN. THE DESIGNER MUST PERFORM ALL NECESSARY INSPECTIONS, BOTH DURING AND AFTER INSTALLATION, BEFORE ANY COMPONENT OF THE SYSTEM IS COVERED.
- THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN COMPILED FROM MAPS, DEEDS, AND OTHER SOURCES OF INFORMATION, AND ARE SUBJECT TO SUCH MODIFICATIONS AS AN ACTUAL BOUNDARY SURVEY MAY DISCLOSE. TO THE EXTENT THAT SUCH BOUNDARIES ARE CRITICAL TO THE O.W.T.S. LOCATION, THEY MUST BE ESTABLISHED PRIOR TO CONSTRUCTION.
- ALL TREES, STUMPS, AND BRUSH WITHIN A 10' PERIMETER AROUND THE SYSTEM MUST BE CLEARED.
- THE EXCAVATION SHALL BE LEVEL AND SCARIFIED.
- ALL TOPSOIL AND SUBSOIL WITHIN A 6' PERIMETER OF THE SYSTEM SHALL BE STRIPPED AND BACKFILLED WITH CLEAN, COARSE GRAVEL. EXCAVATION INTO IMPERVIOUS MATERIAL IS PROHIBITED UNLESS OTHERWISE APPROVED BY THE DIRECTOR.
- MAINTAIN TRENCH INVERT ELEVATION FOR 10' BEYOND THE PERIMETER OF THE LEACHING FIELD. THE ADJACENT SIDE SLOPE SHALL NOT BE STEEPER THAN 3:1 FOR A 25' MIN. DISTANCE FROM THE EDGE OF LEACH FIELD. MAINTAIN 5' TO PROPERTY LINE FROM TOE OF 3:1 SIDE SLOPE.
- INSTALL CAST IRON PIPE OR EQUIVALENT FROM THE FOUNDATION TO THE SEPTIC TANK. ALL OTHER PIPES MUST BE SDR 35 P.V.C. OR EQUIVALENT.
- SUBSURFACE DRAINS AND WATER SUPPLY LINE TO BE INSTALLED IN CONFORMANCE WITH DISTANCES SPECIFIED IN TABLE 6.23 (B).
- ALL KNOWN EXISTING AND PROPOSED PUBLIC WATER SUPPLY WELLS WITHIN 500' OF THE SYSTEM ARE SHOWN; ALL KNOWN EXISTING AND PROPOSED PRIVATE WELLS WITHIN 200' OF THE SYSTEM ARE SHOWN; ALL KNOWN EXISTING AND PROPOSED SEPTIC SYSTEMS WITHIN 100' OF THE WELL ARE SHOWN.
- ALL WORK MUST CONFORM TO THE REQUIREMENTS OF OTHER EXISTING PERMITS, IF ANY.
- WITH RESPECT TO MUNICIPAL ZONING REQUIREMENTS, THE DESIGNER HAS MADE A REASONABLE EFFORT TO ASCERTAIN THE APPLICABLE DIMENSIONAL SETBACKS AND OTHER CONSTRAINTS TO DEVELOPMENT. DUE, HOWEVER, TO THE POSSIBILITY OF UNRECORDED VARIANCES, NON-CONFORMING USES, AND OTHER RELEVANT DOCUMENTS, IT REMAINS THE RESPONSIBILITY OF THE OWNER TO VERIFY THAT THIS DESIGN SATISFIES LOCAL CODES.
- ALL STAGES OF CONSTRUCTION MUST BE SUPERVISED BY THE DESIGNER OF RECORD. UNLESS WAIVED BY THE DESIGNER, ALL IMPROVEMENTS MUST BE STAMPED BY THE DESIGNER OR HIS AGENTS PRIOR TO CONSTRUCTION. THESE INCLUDE THE O.W.T.S., FOUNDATION, WELL, EROSION CONTROLS, CLEARING LIMITS AND ANY OTHER FEATURES DEEMED CRITICAL TO THE DESIGN.

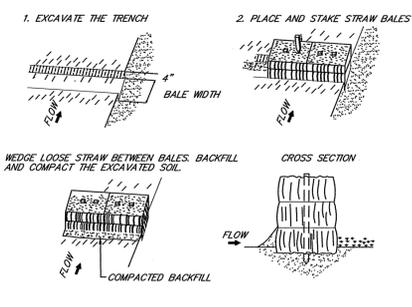


DWELLING LEACHING SYSTEM PROFILE
NOT TO SCALE

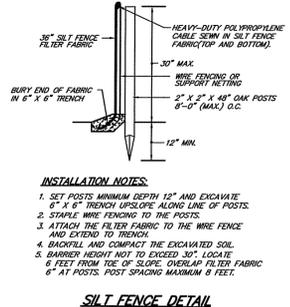


IN-DRAIN CROSS SECTION
NOT TO SCALE

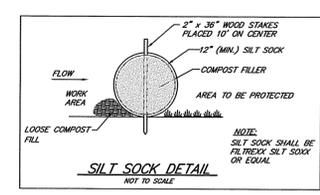
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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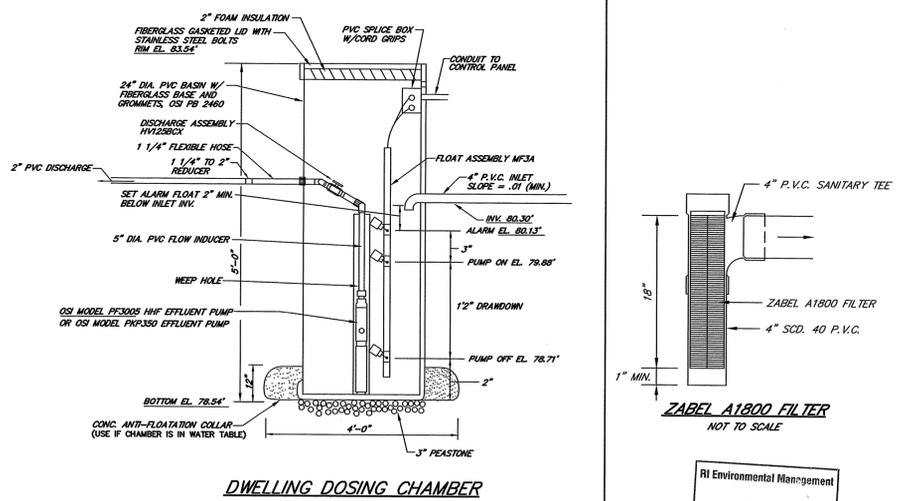
STAKED BALED STRAW EROSION CHECK DETAIL
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE



SILT SOCK DETAIL
NOT TO SCALE



DWELLING DOSING CHAMBER
NOT TO SCALE

SCITUATE SURVEYS, INC.
 410 TIOGUE AVENUE
 COVENTRY, RHODE ISLAND 02816
 401-821-8101
 LAND SURVEYING/MAPPING/SITE PLANNING

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS OF THE BOARD OF SURVEYING AND MAPPING, STATE OF RHODE ISLAND, AS AMENDED, AND THE PROFESSIONAL LAND SURVEYOR'S SIGNATURE AND SEAL ARE HEREON AFFIXED ON NOVEMBER 28, 2023, AS FOLLOWS:

DATE OF SURVEY: N/A
 DATE OF SUBMITTAL: N/A
 MEASUREMENT ACCURACY: N/A
 DATA ACQUISITION SYSTEM: CLASS II METROPOLITAN STANDARD 1-2
 TERRAIN SURVEY ACCURACY: CLASS II METROPOLITAN STANDARD 1-2
 TERRAINING SURVEY ACCURACY: CLASS II METROPOLITAN STANDARD 1-2

ANGIELO M. RAIMONDI
 No. 1162
 PROFESSIONAL LAND SURVEYOR

ANGIELO M. RAIMONDI
 No. 1162
 PROFESSIONAL LAND SURVEYOR

PLAN SHOWING EXISTING & PROPOSED IMPROVEMENTS
 AND ON-SITE WASTEWATER TREATMENT SYSTEM
ASSESSOR'S PLAT 9 LOT 7
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 PREPARED FOR: KARLA & HENRY LITTLE
 RI Environmental Management
 JAN 16 2024
 Office of Water Resources

