

**SEPTIC SYSTEM ELEVATION SCHEDULE (FT.)**

Proposed Building Sanitary Invert = 95.08'  
 Septic Tank / Advantex System:  
 Septic Tank Inv. In = 94.50'  
 Top of Advantex Pod = 98.46'  
 Bottom of Advantex Pod = 95.87'  
 RSV Inv. = 95.50'  
 High Water Alarm = 94.50'  
 Override Timer = 94.33'  
 Top of RSV Cage = 94.17'  
 Top of Filter Cartridge = 93.17'  
 Normal Low Liquid Level = 93.75'  
 Low Water Alarm/Redundant Off = 93.34'  
 Pump Chamber:  
 Invert In = 93.50'  
 Invert Out = 93.50'  
 GeoMat:  
 Invert for Laterals = 99.58'  
 Bottom of GeoMat = 99.50'

Field Design Depth: TH-2 WT Depth = 3.18', excavated at El. 100.5 (WT El. = 97.33)

**PROPOSED SYSTEM:**  
 ADVANTEX TREATMENT SYSTEM  
 AX20 SERIES - MODE 3B CW - OSI  
 PUMP CHAMBER 24" DIA. 72" (6.0') HT. OSI  
 PUMP TO GeoMat - OSI PF 3005 1/2 HP  
 CONTROL PANEL VCOM ADVANTEX AXB PANEL, 115V  
 RECIRCULATING PUMP PF 3005  
 3.25' x 32' (2 LINES) - GeoMat 3900, SEE SHEET 2 FOR DETAILS

**SIZING OF GeoMat 3900**  
 4 BEDROOMS x 115 GALS. PER BEDROOM = 460 GALS. (DAILY FLOW RATE)  
 460 GALLONS PER DAY / 2.3 GALS./SF/DAY (CATEGORY 6) = 200 S.F. (MIN. REQ'D)  
 200 S.F. / 3.25 S.F. PER L.F. (GeoMat 3900) = 61.54 L.F. / 2 LINES OF GeoMat 3900 = 32 L.F. PER LINE  
 OVERALL GeoMat 3900 AREA = 3.25' x 32' L / 2 LINES 208 S.F. PROVIDED

**SOIL NOTES:**

BY CLAIRE MCELDERREY  
 NOVEMBER 15, 2016

TEST HOLE #1 (Elev. 99.2)

0-9" Ap, 10YR3/4, vsl, 1skf, vfr  
 9-17" Bw1, 10YR4/6, vsl, 1skf, fr  
 17-37" Bw2, 10YR5/6, vsl, 1skf, fr  
 37-45" C1, 2.5Y5/4, sil, 0-m, fr  
 46-52" 2c2, 2.5Y6/2, vsa, 0-m, fr  
 62" C3, 10YR5/6, sl w/pkts loos, fr  
 DEPTH TO GROUNDWATER TABLE = 49'  
 GROUNDWATER ELEV. = 95.12

TEST HOLE #2 (Elev. 98.6)

0-8" Ap, 10YR3/4, vsl, 1skf, vfr  
 8-20" Bw1, 10YR4/6, vsl, 1skf, fr  
 20-32" Bw2, 10YR5/6, vsl, 1skf, fr  
 32-55" 2c2, 2.5Y5/1, vsa, 0-m, fr  
 55-72" 3c2, 2.5Y5/3, sil, 0-m, fr  
 72" C4, 2.5Y4/2, sil, 0-m, fr  
 DEPTH TO GROUNDWATER TABLE = 40'  
 GROUNDWATER ELEV. = 95.27

TEST HOLE #3 (Elev. 100.5)

0-7" Ap, 10YR3/4, vsl, 1skf, vfr  
 7-21" Bw1, 10YR4/6, vsl, 1skf, fr  
 21-30" C1, 2.5Y5/3, sil, 0-m, fr  
 30-60" 2c2, 2.5Y5/1, sil, 0-m, fr  
 60" C3, 2.5Y5/3, sil, 0-m, fr  
 DEPTH TO GROUNDWATER TABLE = 38'  
 GROUNDWATER ELEV. = 97.33

**DIGSAFE:**  
 THE CONTRACTOR SHALL CONTACT "DIG-SAFE" AND/OR OTHER APPROPRIATE UTILITY COMPANIES TO ASCERTAIN THE EXACT LOCATION OF THE RESPECTIVE UTILITY PRIOR TO CONSTRUCTION.

**DRIVEWAY:**  
 CRUSHED FOR DRIVEWAY SHALL BE 3/4 INCH TO 1 1/2 INCH DIAMETER, WASHED, ANGULAR CRUSHED STONE INSTALLED TO A MINIMUM DEPTH OF 3 INCHES. THE GRADE OF THE DRIVEWAY SHALL NOT BE HIGHER THAN THE ADJACENT GROUND ELEVATION.

**GENERAL WETLAND NOTES:**

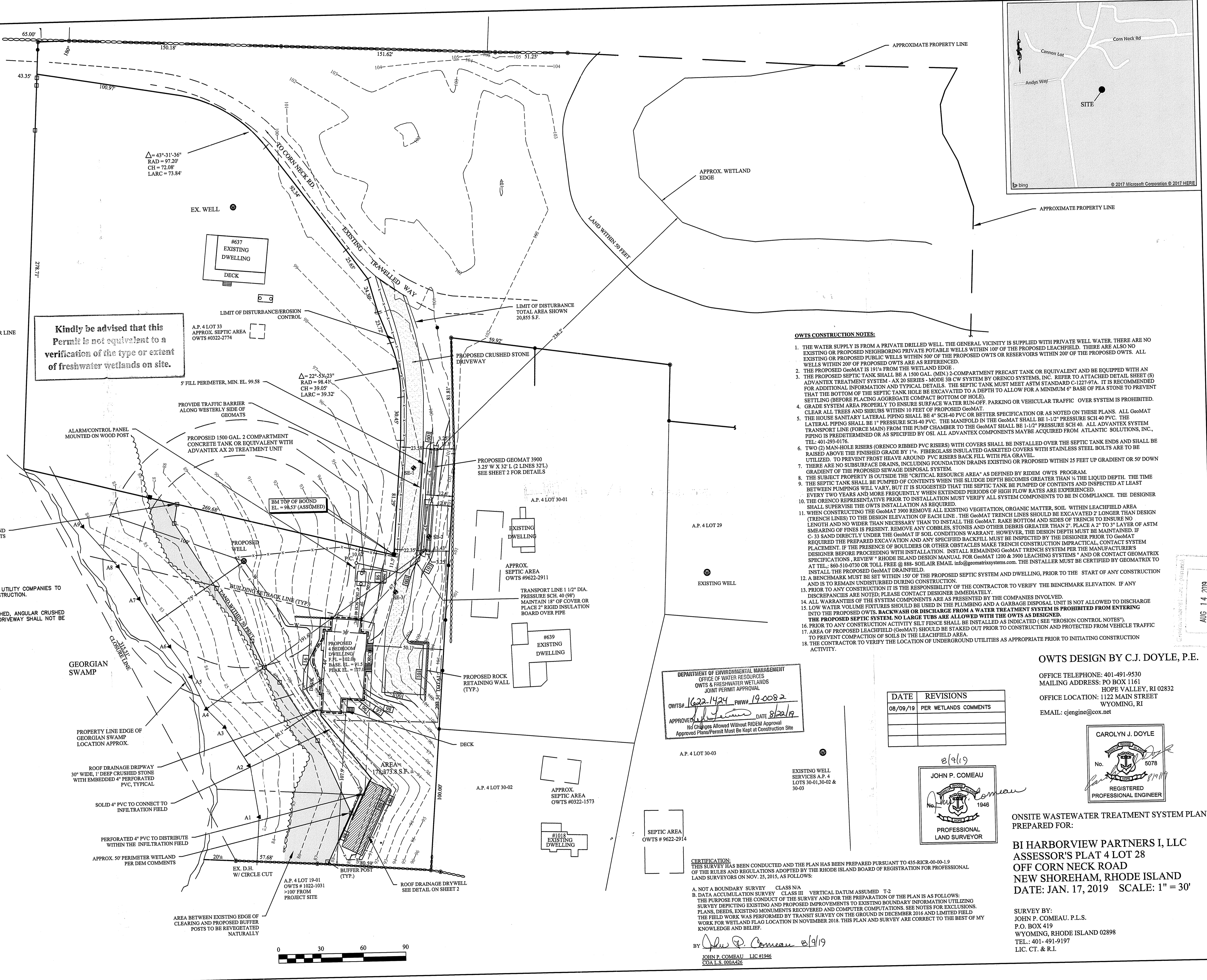
- Map is compiled from on-site fieldwork completed by John P. Comeau, P.L.S.
- Topography as represented is based on an assumed datum.
- The wetland edge on subject parcel was field delineated (flagged) by REMA Ecological Services, LLC. George Logan Soil Scientist.
- The proposed dwelling, OWTS and associated improvements are outside the 100 - Year Floodplain as referenced on the following maps entitled, "FIRM4 Flood Insurance Rate Map Washington County, Rhode Island Panel 354 of 368 Town of New Shoreham, Map Number 4400903541 Effective Date: October 16, 2013".
- Prior to commencement of any site alterations, permanent buffer zone markers (posts) must be installed along the limit of disturbance at the locations indicated.
- The buffer zone markers (posts) are to consist of 4" x 4" pressure treated or cedar timber posts. These markers must extend a minimum 24" above grade.

ITEM	REQUIRED	PROVIDED
MIN. LOT AREA	120,000 S.F.	178,373.8 S.F.
FRONTAGE	200'	>200'
MAX. LOT COVERAGE	10%	3.72%
MAX. LOT BUILDING COVERAGE	4%*	1.38%
MAX. HEIGHT PRINCIPAL BUILDING	32'	32.0'
FRONT YARD SETBACK	50'	50.1'
SIDE YARD SETBACK	50'	50.0' (N)
REAR YARD SETBACK	50'	107.9' (S)
		60.0'

\*3% FOR MAIN BUILDING WITH LOT >34,000 S.F. (MAIN BUILDING = 2,464 S.F. WITH DECKS; DRIVEWAY = 4,172 S.F. AS SHOWN)

**LEGEND**

- EXISTING STONE BOUND
- EXISTING REBAR OR IRON PIPE
- EXISTING UTILITY POLE
- EXISTING OR PROPOSED WELL
- BUILDING SETBACK LINE
- E—E— OVERHEAD UTILITIES



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

- OWTS CONSTRUCTION NOTES:**
- THE WATER SUPPLY IS FROM A PRIVATE DRILLED WELL. THE GENERAL VICINITY IS SUPPLIED WITH PRIVATE WELL WATER. THERE ARE NO EXISTING OR PROPOSED NEIGHBORING PRIVATE POTABLE WELLS WITHIN 100' OF THE PROPOSED LEACHFIELD. THERE ARE ALSO NO EXISTING OR PROPOSED PUBLIC WELLS WITHIN 500' OF THE PROPOSED OWTS OR RESERVOIRS WITHIN 200' OF THE PROPOSED OWTS. ALL WELLS WITHIN 200' OF PROPOSED OWTS ARE AS REFERENCED.
  - THE PROPOSED GeoMat IS 191' FROM THE WETLAND EDGE.
  - THE PROPOSED SEPTIC TANK SHALL BE A 1500 GAL. (MN) 2-COMPARTMENT PRECAST TANK OR EQUIVALENT AND BE EQUIPPED WITH AN ADVANTEX TREATMENT SYSTEM - AX 20 SERIES - MODE 3B CW SYSTEM BY ORENCO SYSTEMS, INC. REFER TO ATTACHED DETAIL SHEET (S) FOR ADDITIONAL INFORMATION AND TYPICAL DETAILS. THE SEPTIC TANK MUST MEET ASTM STANDARD C-127-97A. IT IS RECOMMENDED THAT THE BOTTOM OF THE SEPTIC TANK HOLE BE EXCAVATED TO A DEPTH TO ALLOW FOR A MINIMUM 6" BASE OF PEA STONE TO PREVENT SETTLING (BEFORE PLACING AGGREGATE COMPACT BOTTOM OF HOLE). PARKING OR VEHICULAR TRAFFIC OVER SYSTEM IS PROHIBITED.
  - GRADE SYSTEM AREA PROPERLY TO ENSURE SURFACE WATER RUN-OFF. PARKING OR VEHICULAR TRAFFIC OVER SYSTEM IS PROHIBITED. CLEAR ALL TREES AND SHRUBS WITHIN 10 FEET OF PROPOSED GeoMat.
  - THE HOUSE SANITARY LATERAL PIPING SHALL BE 4" SCH-40 PVC OR BETTER SPECIFICATION OR AS NOTED ON THESE PLANS. ALL GeoMat LATERAL PIPING SHALL BE 1" PRESSURE SCH-40 PVC. THE MANIFOLD IN THE GeoMat SHALL BE 1-1/2" PRESSURE SCH 40 PVC. THE TRANSPORT LINE (FORCE MAIN) FROM THE PUMP CHAMBER TO THE GeoMat SHALL BE 1-1/2" PRESSURE SCH 40. ALL ADVANTEX SYSTEM PIPING IS PREDETERMINED OR AS SPECIFIED BY OSI. ALL ADVANTEX COMPONENTS MAYBE ACQUIRED FROM ATLANTIC SOLUTIONS, INC., TEL: 401-293-0176.
  - TWO (2) MAN-HOLE RISERS (ORENCO RIBBED PVC RISERS) WITH COVERS SHALL BE INSTALLED OVER THE SEPTIC TANK ENDS AND SHALL BE RAISED ABOVE THE FINISHED GRADE BY 1". FIBERGLASS INSULATED GASKETED COVERS WITH STAINLESS STEEL BOLTS ARE TO BE UTILIZED. TO PREVENT FROST HEAVE AROUND PVC RISERS BACK FILL WITH PEA GRAVEL.
  - THERE ARE NO SUBSURFACE DRAINS, INCLUDING FOUNDATION DRAINS EXISTING OR PROPOSED WITHIN 25 FEET UP GRADIENT OR 50' DOWN GRADIENT OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.
  - THE SUBJECT PROPERTY IS OUTSIDE THE "CRITICAL RESOURCE AREA" AS DEFINED BY RIDEM OWTS PROGRAM.
  - THE SEPTIC TANK SHALL BE PUMPED OF CONTENTS WHEN THE SLUDGE DEPTH BECOMES GREATER THAN 1/4 THE LIQUID DEPTH. THE TIME BETWEEN PUMPINGS WILL VARY, BUT IT IS SUGGESTED THAT THE SEPTIC TANK BE PUMPED OF CONTENTS AND INSPECTED AT LEAST EVERY TWO YEARS AND MORE FREQUENTLY WHEN EXTENDED PERIODS OF HIGH FLOW RATES ARE EXPERIENCED.
  - THE ORENCO REPRESENTATIVE PRIOR TO INSTALLATION MUST VERIFY ALL SYSTEM COMPONENTS TO BE IN COMPLIANCE. THE DESIGNER SHALL SUPERVISE THE OWTS INSTALLATION AS REQUIRED.
  - WHEN CONSTRUCTING THE GeoMat 3900 REMOVE ALL EXISTING VEGETATION, ORGANIC MATTER, SOIL WITH LEACHFIELD AREA (TRENCH LINES) TO THE DESIGN ELEVATION OF EACH LINE. THE GeoMat TRENCH LINES SHOULD BE EXCAVATED 2' LONGER THAN DESIGN LENGTH AND NO WIDER THAN NECESSARY THAN TO INSTALL THE GeoMat. RAKE BOTTOM AND SIDES OF TRENCH TO ENSURE NO SMearing OF FINES IS PRESENT. REMOVE ANY COBBLES, STONES AND OTHER DEBRIS GREATER THAN 2" PLACE A 2" TO 3" LAYER OF ASTM C-33 SAND DIRECTLY UNDER THE GeoMat IF SOIL CONDITIONS WARRANT. HOWEVER, THE DESIGN DEPTH MUST BE MAINTAINED. IF REQUIRED THE PREPARED EXCAVATION AND ANY SPECIFIED BACKFILL MUST BE INSPECTED BY THE DESIGNER PRIOR TO GeoMat PLACEMENT. IF THE PRESENCE OF BOULDERS OR OTHER OBSTACLES MAKE TRENCH CONSTRUCTION IMPRACTICAL, CONTACT SYSTEM DESIGNER BEFORE PROCEEDING WITH INSTALLATION. INSTALL REMAINING GeoMat TRENCH SYSTEM PER THE MANUFACTURERS SPECIFICATIONS. REVIEW "RHODE ISLAND DESIGN MANUAL FOR GeoMat 1200 & 3900 LEACHING SYSTEMS" AND OR CONTACT GEOMATRIX AT TEL: 860-510-0730 OR TOLL FREE @ 888-504-6181 EMAIL: info@geomatrixsystems.com. THE INSTALLER MUST BE CERTIFIED BY GEOMATRIX TO INSTALL THE PROPOSED GeoMat DRAINFIELD.
  - A BENCHMARK MUST BE SET WITHIN 150' OF THE PROPOSED SEPTIC SYSTEM AND DWELLING, PRIOR TO THE START OF ANY CONSTRUCTION AND IS TO REMAIN UNDISTURBED DURING CONSTRUCTION.
  - PRIOR TO ANY CONSTRUCTION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE BENCHMARK ELEVATION. IF ANY DISCREPANCIES ARE NOTED, PLEASE CONTACT DESIGNER IMMEDIATELY.
  - ALL WARRANTIES OF THE SYSTEM COMPONENTS ARE AS PRESENTED BY THE COMPANIES INVOLVED.
  - LOW WATER VOLUME FIXTURES SHOULD BE USED IN THE BATHROOM AND A GARBAGE DISPOSAL UNIT IS NOT ALLOWED TO DISCHARGE INTO THE PROPOSED OWTS. BACKWASH OR DISCHARGE FROM A WATER TREATMENT SYSTEM IS PROHIBITED FROM ENTERING THE PROPOSED SEPTIC SYSTEM. NO LARGE TUBS ARE ALLOWED WITH THE OWTS AS DESIGNED.
  - PRIOR TO ANY CONSTRUCTION ACTIVITY SILT FENCE SHALL BE INSTALLED AS INDICATED (SEE EROSION CONTROL NOTES).
  - AREA OF PROPOSED LEACHFIELD (GeoMat) SHOULD BE STAKED OUT PRIOR TO CONSTRUCTION AND PROTECTED FROM VEHICLE TRAFFIC TO PREVENT COMPACTATION OF SOILS IN THE LEACHFIELD AREA.
  - THE CONTRACTOR TO VERIFY THE LOCATION OF UNDERGROUND UTILITIES AS APPROPRIATE PRIOR TO INITIATING CONSTRUCTION ACTIVITY.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 OWTS & FRESHWATER WETLANDS  
 JOINT PERMIT APPROVAL  
 OWTS# 1622-1424 FWW# 19-0082  
 APPROVED: [Signature] DATE 8/20/19  
 No Changes Allowed Without RIDEM Approval  
 Approved Plans/Permit Must Be Kept at Construction Site

DATE	REVISIONS
08/09/19	PER WETLANDS COMMENTS

8/9/19  
 JOHN P. COMEAU  
 REGISTERED PROFESSIONAL LAND SURVEYOR  
 1946

**OWTS DESIGN BY C.J. DOYLE, P.E.**

OFFICE TELEPHONE: 401-491-9530  
 MAILING ADDRESS: PO BOX 1161  
 HOPE VALLEY, RI 02832  
 OFFICE LOCATION: 1122 MAIN STREET  
 WYOMING, RI  
 EMAIL: cjengine@cox.net

**ONSITE WASTEWATER TREATMENT SYSTEM PLAN PREPARED FOR:**

**BI HARBORVIEW PARTNERS I, LLC**  
 ASSESSOR'S PLAT 4 LOT 28  
 OFF CORN NECK ROAD  
 NEW SHOREHAM, RHODE ISLAND  
 DATE: JAN. 17, 2019 SCALE: 1" = 30'

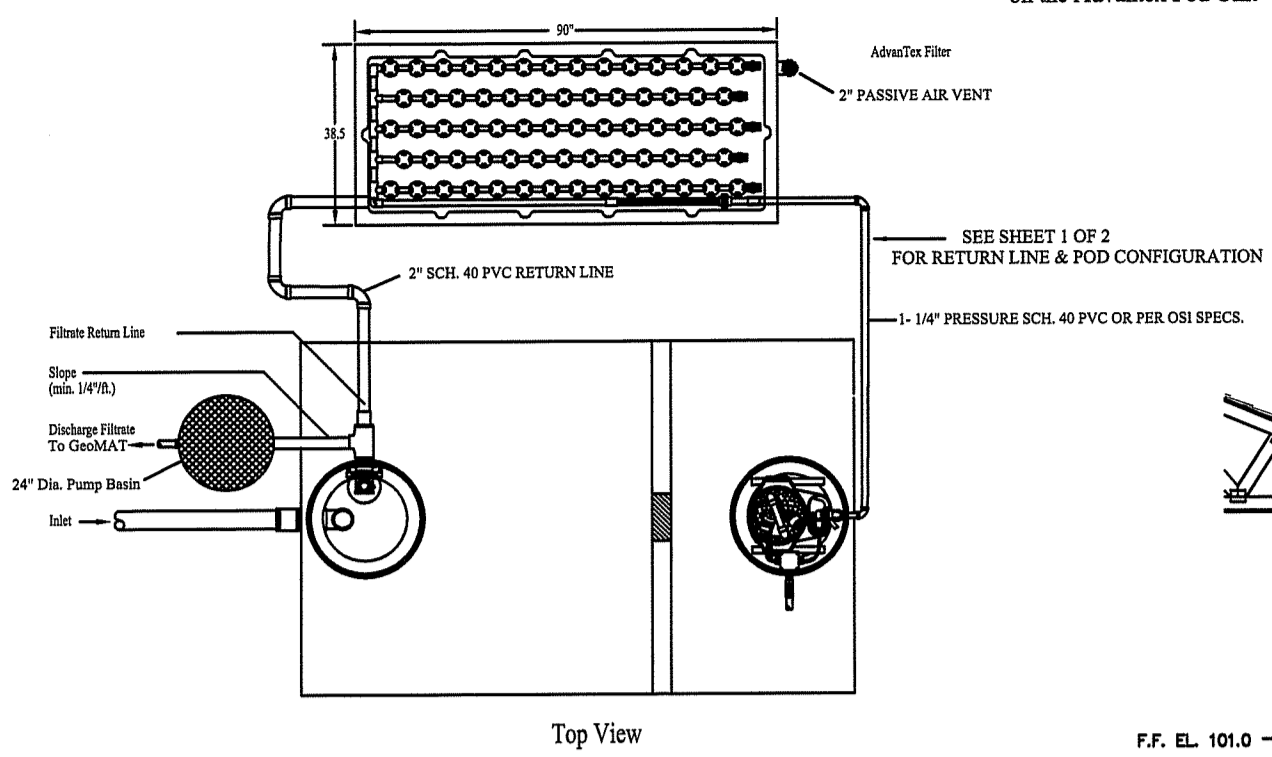
SURVEY BY:  
 JOHN P. COMEAU, P.L.S.  
 P.O. BOX 419  
 WYOMING, RHODE ISLAND 02898  
 TEL.: 401-491-9197  
 LIC. CT. & R.I.

**CERTIFICATION:**  
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOV. 25, 2015, AS FOLLOWS:  
 A. NOT A BOUNDARY SURVEY - CLASS N/A.  
 B. DATA ACCUMULATION SURVEY - CLASS III - VERTICAL DATUM ASSUMED T-2.  
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
 PLANS, DEEDS, EXISTING MONUMENTS RECOVERED AND COMPUTER COMPUTATIONS. SEE NOTES FOR EXCLUSIONS.  
 THE FIELD WORK WAS PERFORMED BY TRANSIT SURVEY ON THE GROUND IN DECEMBER 2016 AND LIMITED FIELD WORK FOR WETLAND FLAG LOCATION IN NOVEMBER 2018. THIS PLAN AND SURVEY ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.  
 BY: [Signature] 8/9/19  
 JOHN P. COMEAU LIC #1946  
 COA L.S. 0004426

AUG 14 2019

**AdvanTex Treatment System**  
AX 20 Series - Mode 3b CW  
N.T.S.

AvanTex-AX20 Mode 3b CW  
Anti-Floating Flanges are required on the AdvanTex Pod Unit



NOTE: PRECAST CONCRETE SEPTIC TANK SHALL BE A TWO COMPARTMENT TANK, SHALL HAVE A 1500 GALLON MINIMUM CAPACITY AND SHALL BE COMPLETELY WATER TIGHT (ASTM-C1127-97A). COVERS SHALL BE A MINIMUM OF 24" DIAMETER.

Top View

DETAIL OWTs BUILDING SEWER  
NO SCALE

FF. EL. 101.0

HOUSE

SLAB EL. 92.0

OWTS PIPE INVERT OUT = 95.00

24" Dia. Pump Basin

Discharge Filter To Geomat

24" Dia. Riser

24" Dia. Discharge

24" Dia. Return Line

24" Dia. Filter

2" PASSIVE AIR VENT

SEE SHEET 1 OF 2 FOR RETURN LINE & POD CONFIGURATION

1-1/2" PRESSURE PVC SCH 40 PVC OR PER O&P SPEC.

24" SCH 40 PVC RETURN LINE

24" Dia. Filter

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