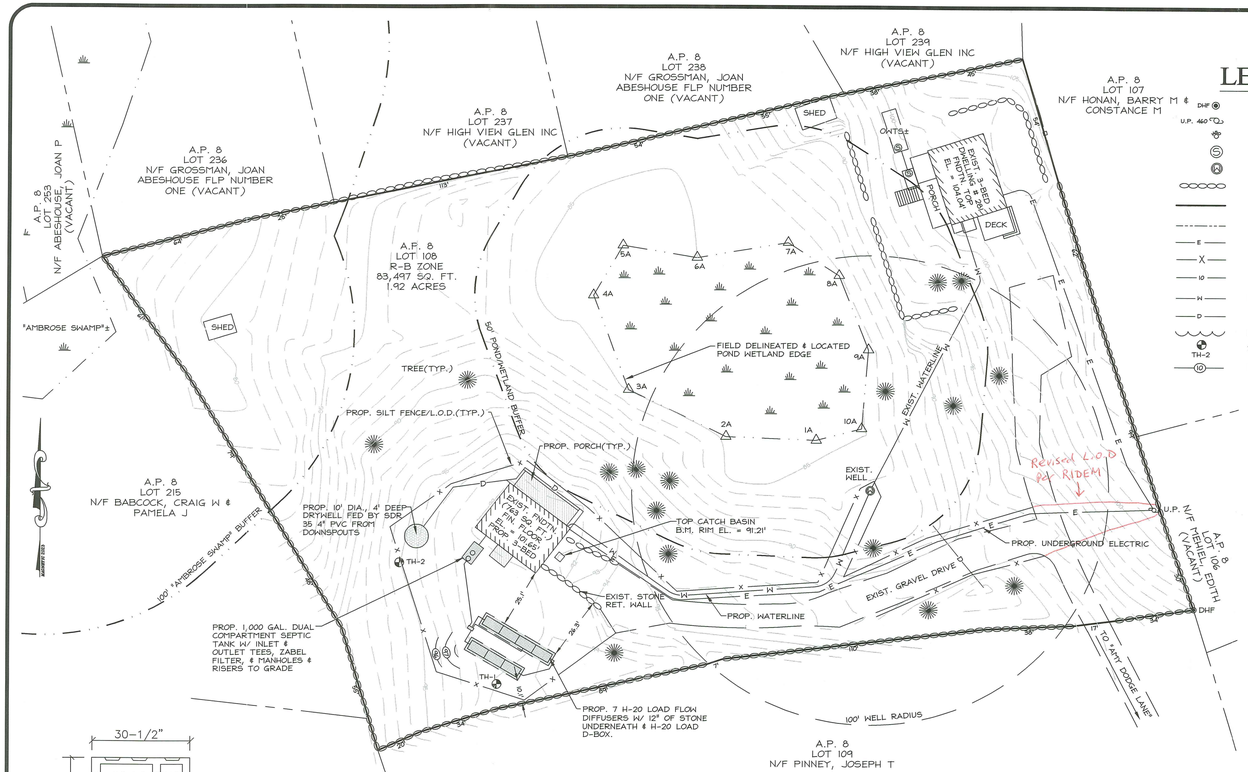


PLAN VIEW

SCALE: 1"=30'

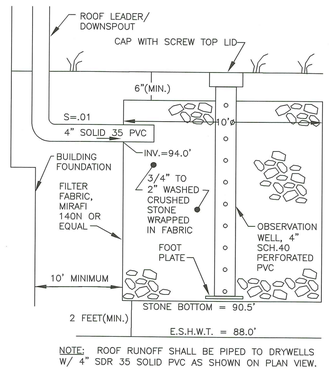
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

LEGEND

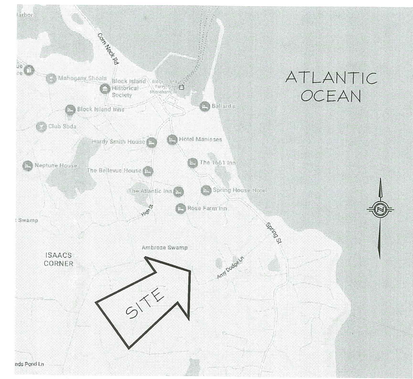
- DHF — Drillhole Found
- U.P. — Utility Pole
- Water Shutoff
- Cesspool/Septic Tank Lid
- Well
- Stone Wall
- Property Line
- Approx. Property Line
- E — Prop. Electricline
- X — Prop. Silt Fence
- 10 — Contour (NAVD 1988 Datum)
- W — Existing Waterline±
- D — Prop. 4" PVC Solid Drainline
- Existing Treeline
- TH-2 — Soil Evaluation
- 10 — Proposed Contour



DRYWELL DETAIL

N.T.S.

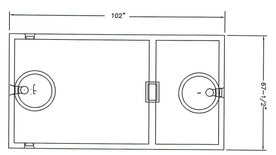
NOTE: ROOF RUNOFF SHALL BE PIPED TO DRYWELLS W/ 4" SDR 35 SOLID PVC AS SHOWN ON PLAN VIEW.



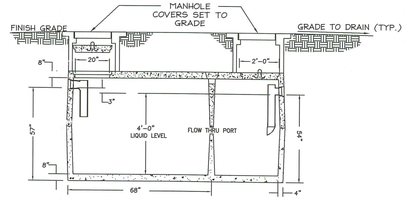
LOCUS MAP

ZABEL SEPTIC TANK FILTER

CROSS SECTION



TYPICAL PLAN VIEW (NOT TO SCALE)



TYPICAL CROSS SECTION

TYPICAL DUAL COMPARTMENT 1,000 GAL. SEPTIC TANK

NOT TO SCALE

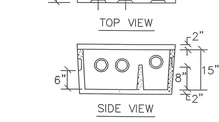
ZONING DISTRICT : RB

ACCESSORY BUILDING SETBACKS :
FRONT : 50'
REAR : 15'
SIDES : 10'
LOT AREA = 83,497 S.F.
R.O.W. AREA = 0 S.F.
WETLANDS AREA = 7,577 S.F.
BUILDABLE AREA = 75,920 S.F.
8% ALL BUILDINGS COVERAGE = 6,073 S.F.
16% ALL STRUCTURE COVERAGE = 12,147 S.F.

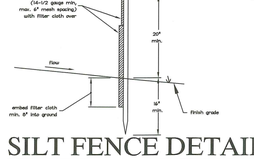
COVERAGE BREAKDOWN:
PRINCIPAL = 812 S.F.
PRINCIPAL DECK & STEPS = 170 S.F.
PRINCIPAL PORCH & STEPS = 317 S.F.
PRINCIPAL BULKHEAD = 27 S.F.
SHEDS = 249 S.F.
ACCESSORY FNDTN. = 763 S.F.
ACCESSORY PROP. PORCHES = 272 S.F.
ALL BUILDING COVERAGE = 1,575 S.F. (2.0%)
ALL STRUCTURE COVERAGE = 2,610 S.F. (3.4%)

OWTS GENERAL NOTES:

1. THE PROPERTY "IS NOT" SUBJECT TO RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL REVIEW.
2. ALL PRIVATE AND PUBLIC DRINKING WATER LINES WITHIN 50 FEET OF THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN.
3. THERE ARE NO PUBLIC SEWERS AVAILABLE TO THE PROPERTY WITHIN 200 FEET UNLESS NOTED ON SITE PLAN.
4. ALL EXISTING AND PROPOSED PRIVATE DRINKING WATER WELLS, &/OR THERE RADII, ARE SHOWN WITHIN 200' OF THE PROPOSED OWTS COMPONENTS SHOWN ON THIS PLAN.
5. ALL EXISTING AND PROPOSED WELLS SERVING NON-POTABLE USES WITHIN 100 FEET OF THE OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON THE SITE PLAN.
6. ALL EXISTING AND PROPOSED PUBLIC DRINKING WATER WELLS WITHIN 500 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON THE SITE PLAN. THE CONSTRUCTION DETERMINATION OF SAID WELLS IS IDENTIFIED ON THE SITE PLAN, UNLESS OTHERWISE NOTED.
7. ALL WATERCOURSES, WETLANDS, AND DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN.
8. ALL STORM AND SUBSURFACE DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN. THE ULTIMATE DISCHARGE OF SAID DRAINS ARE IDENTIFIED ON THE SITE PLANS.
9. THE OWTS "IS NOT" LOCATED WITHIN THE WATERSHED OF A PUBLIC WATER SUPPLY OR OTHER CRITICAL RESOURCE AREA.
10. ALL EXISTING OWTSs ON ABUTTING PROPERTIES WITHIN 200 FEET OF A PROPOSED WELL TO SERVICE THE SUBJECT PROPERTY ARE IDENTIFIED ON THE SITE PLAN, UNLESS OTHERWISE NOTED.
11. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN AN IDENTIFIED FLOOD ZONE.
12. IF A PROPOSED WELL IS REQUIRED TO SERVICE THE WATER REQUIREMENTS FOR THE SUBJECT PROPERTY, SAID WELL "DOES NOT" REQUIRE A VARIANCE FROM RIDOH'S "RULES AND REGULATIONS GOVERNING THE ENFORCEMENT OF THE DRILLING OF DRINKING WATER WELLS".
13. OWTS DESIGN DATA:
    - 3 BEDROOM DESIGN - 115 GALLONS PER BEDROOM - TOTAL DESIGN FLOW = 345 GPD
    - BASED ON THE SOIL EVALUATION, THE MOST RESTRICTIVE SOIL DESIGN CATEGORY IS #1 @ 6in.
    - THE SOIL APPLICATION RATE = 0.70 GALS/SQ FT/DAY
    - TOTAL REQUIRED LEACHING AREA = 492.86 SQUARE FEET
    - TOTAL PROVIDED LEACHING AREA = 504.00 SQUARE FEET
    - LEACHFIELD: 18' W x 26' @ 34" 7 FLOW DIFFUSERS W/ 12" OF STONE UNDERNEATH.
14. OWTS GENERAL CONSTRUCTION NOTES:
    - ALL PIPING SHALL BE 4"ø PVC SCH 40 OR EQUIVALENT, UNLESS OTHERWISE NOTED
    - ALL PIPE SLOPES SHALL BE A MINIMUM OF 1% AND A MAXIMUM OF 5%, REFER TO THE PROFILE
    - THE SEPTIC TANK SHALL BE A CONCRETE TANK WITH THE CAPACITY AS STATED ON THE SITE PLAN
    - THE SEPTIC TANK INLET SHALL EXTEND IT BELOW THE FLOW LINE AND THE OUTLET TEE SHALL EXTEND 1/3 THE DEPTH BELOW THE FLOW LINE.
    - THE SEPTIC TANK SHALL BE FITTED WITH TWO ACCESS MANHOLE RISERS NOT LESS THAN 20"ø
    - THE D-BOX, IF REQUIRED, SHALL HAVE A MINIMUM OF 3 SQUARE FEET OF BOTTOM AREA AND BE CAPABLE OF CARRYING A MINIMUM 300 PSF LOAD WITH MINIMAL SIDEWALL DEFLECTION.
    - LEACHFIELD STONE, IF USED, SHALL BE 3/4" TO 2" DOUBLE WASHED STONE, FREE OF ALL DEBRIS.
    - SURFACE GRADES WITHIN 10 FEET OF THE LEACHFIELD SHALL NOT BE LOWER THAN ELEVATION 96.50'. AT THE 10 FEET DISTANCE FROM THE LEACHFIELD, THE SLOPE SHALL BE A MINIMUM OF 3H:1V TO MATCH INTO EXISTING GRADES.
    - THE LEACHFIELD AND THE AREA WITHIN 10 FEET FOR THE LEACHFIELD SHALL BE STRIPPED OF ALL TREES, BRUSH, STUMPS AND BOULDERS. THE SIDES AND BOTTOM OF THE EXCAVATION SHALL NOT BE COMPACTED OR SMEARED AND THE BOTTOM SHALL BE SCARIFIED PRIOR TO LEACHFIELD PLACEMENT TO A MINIMUM DEPTH OF 94.50'±.
    - REFER TO THE SITE PLAN FOR LEACHFIELD STRIP REQUIREMENTS.
    - THE FINISH GRADE OVER THE SEPTIC TANK SHALL BE GRADED TO DIVERT SURFACE WATER RUNOFF AWAY FROM THE TANK.
    - IF A DRIVEWAY OR PAVEMENT IS TO BE LOCATED NEAR THE PROPOSED OWTS, A FENCE OR CURBING SHALL BE INSTALLED AROUND THE SYSTEM IN THE AREA OF THE PAVEMENT TO PREVENT VEHICULAR TRAFFIC FROM DRIVING ONTO THE SYSTEM.
    - CONTRACTOR TO OBSERVE & CONFIRM ALL EXISTING PLUMBING INSIDE THE DWELLING WILL BE TIED INTO THE PROPOSED SEPTIC TANK SHOWN ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WHERE ALL EXISTING PLUMBING EXITS THE BUILDING(S), SHOWN ON THIS PLAN, PRIOR TO INSTALLING ANY OWTS COMPONENTS. NEW PLUMBING, INSIDE THE BUILDING(S) SHOWN ON THIS PLAN, MAY BE REQUIRED AS PART OF THIS OWTS INSTALLATION.
15. THIS PLAN CONFORMS TO A CLASS "II" PROPERTY LINE & A CLASS "III" TOPOGRAPHY AS ADOPTED BY THE RI BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS SURVEY IS NOT VALID FOR ANY OTHER PURPOSE, OTHER THAN SHOWN ON THIS PLAN, WITHOUT WRITTEN CONSENT.
16. GENERAL OWNER NOTES:
    - FOOD/GARBAGE GRINDERS INSIDE DWELLING AND DISPOSAL OF GREASES, OILS, AND OR FATS ARE PROHIBITED.
    - VEHICLE PARKING OR TRAFFIC OVER THE OWTS COMPONENTS IS PROHIBITED.
    - BACKWASH WATER FROM A WATER TREATMENT SYSTEM WAS NOT TAKEN INTO CONSIDERATION WITH THE DESIGN OF THIS OWTS. WATER TREATMENT SYSTEM DISCHARGE TO THIS OWTS IS PROHIBITED.
    - THE SEPTIC TANK SHALL BE PUMPED WHEN DEEMED NECESSARY BY OPERATIONS & MAINTENANCE PERSONNEL OR LICENSED SEPTIC INSPECTOR.
17. INSTALLER TO PROVIDE DISTRICT W/ ALL COPIES OF MATERIALS PURCHASED & USED ON INSTALLING THIS OWTS PRIOR TO ISSUANCE OF CERTIFICATE OF CONSTRUCTION.
18. THERE ARE NO EXISTING OR PROPOSED SUBSURFACE DRAINS WITHIN 25' OF THE PROPOSED OWTS COMPONENTS SHOWN ON THIS PLAN. THE FULL FOUNDATION ON THIS PLAN SHALL HAVE NO SUB-SURFACE DRAINS.
19. THE PROPOSED STORMWATER MANAGEMENT PRACTICES SHOWN ON THIS PLAN WERE DESIGNED AS FOLLOWS:
DRY WELL DESIGN DATA - MAXIMUM OF 1,035 SQ FT. OF ROOFLINE IS PROPOSED. USING TABLES 10 & 11 FROM THE RISD MANUAL & DESIGNING ON SANDY SOILS, W/ 48" OF STONE DEPTH, 59 SQ. FT. OF INFILTRATION AREA IS REQUIRED. THIS PLAN PROPOSES A 4' DEEP, 10' DIAMETER DRYWELL THAT WILL PROVIDE A TOTAL INFILTRATION AREA OF 78.5 SQ. FT.
20. WETLANDS DELINEATED BY NINIGRET ENVIRONMENTAL, LLC IN JUNE 2023.
21. THERE IS 230 SQ. FT. OF EARTHWORK ACTIVITY PROPOSED WITHIN THE 50' POND/WETLAND BUFFER. THE PROPOSED ACTIVITY IS THE DIGGING OF A WATERLINE TO THE EXISTING WELL ONLY.

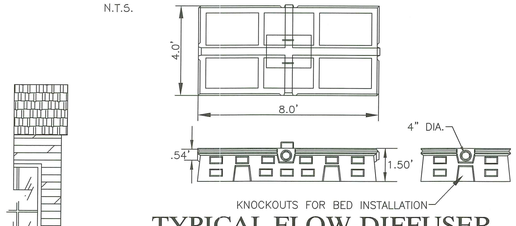


TYPICAL DISTRIBUTION BOX



SILT FENCE DETAIL

N.T.S.



TYPICAL FLOW-DIFFUSER

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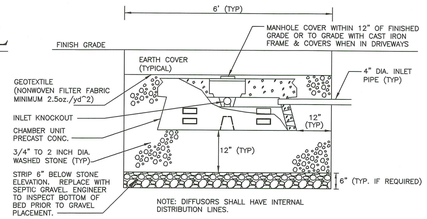

TYPICAL CROSS-SECTION THRU H-20 LOAD FLOW DIFFUSER

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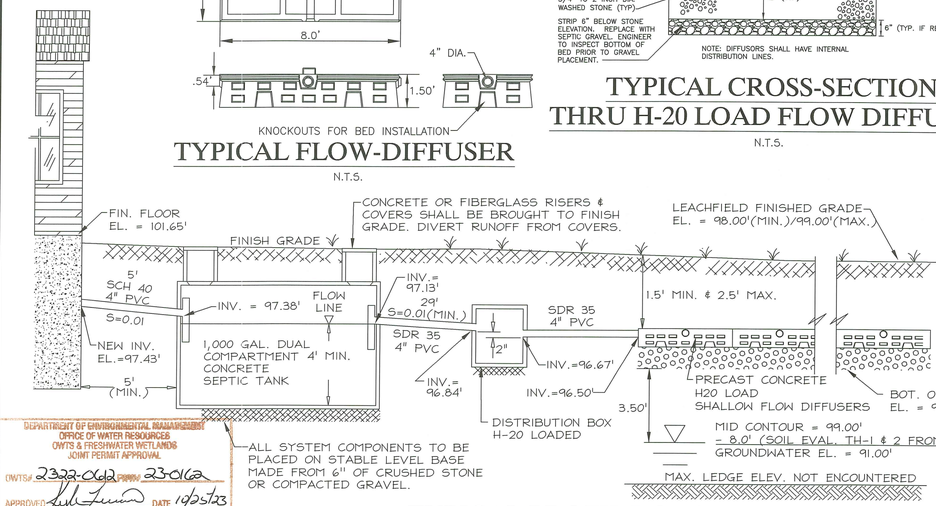

TYPICAL PROFILE OF SYSTEM

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
OWTS & FRESHWATER WETLANDS
JOINT PERMIT APPROVAL
OWTS# 2322-0442 PERM# 23062
APPROVED: DATE: 10/25/23
No Changes Allowed Without RIDEM Approval
Approved Plans/Permit Must Be Kept at Construction Site

SOIL STABILIZATION & PLANTING PROGRAM

ACCEPTABLE PLANTING MATERIALS:

LOAM- THE MATERIAL TO BE FURNISHED SHALL CONSIST OF LOOSE, FRIABLE, SANDY LOAM OR LOAM TOPSOIL FREE OF A MIXTURE OF SUBSOIL, REFUSE STUMPS, ROOTS, ROCKS, BRUSH, WEEDS & OTHER MATIERIAL WHICH WILL PREVENT THE FORMATION OF A SUITABLE SEED BED.

SEED MIXTURES-ALL LEGUME SEED SHALL BE INOCULATED WITH 24 HOURS BEFORE MIXING & PLANTING WITH THE APPROPRIATE INOCULUM FOR EACH VARIETY. ALL INOCULA SHALL BE FRESH & SHALL BE USED WITHIN THE DATE LIMIT PRESCRIBED BY THE MANUFACTURER.

FOR RELATIVLEY FLAT SLOPES MIX: *% BY WEIGHT*

RED FESCUE-CHEWINGS PENNLAWN OR CREEPING.	70
KENTUCKEY BLUEGRASS	15
COLONIAL BENTGRASS (ASTORIA OR EXETER)	5
PERENNIAL RYEGRASS	10

****SEEDING RATE = 100 LBS PER ACRE****

FOR STEEP SLOPES 3:1 OR GREATER MIX: *% BY WEIGHT*

RED FESCUE-CHEWINGS PENNLAWN OR CREEPING	75
PERENNIAL RYEGRASS	5
COLONIAL BENTGRASS (ASTORIA OR EXETER)	5
BIRDSFOOT TREFOIL (EMPIRE)	15

****SEEDING RATE = 100 LBS PER ACRE****

FOR SOD WATERWAYS, DRAINAGE DITCHES & DRAINAGE BASINS MIX: *% BY WEIGHT*

CREEPING RED FESCUE	50
TALL FESCUE OR REED CANARYGRASS	50

****USE REED CANARY GRASS WHERE MOWING IS NOT REQUIRED****

THE ACCEPTED PLANTING SEASON SHALL BE BETWEEN APRIL 1ST AND OCTOBER 15. THE CONTRACTOR SHOULD COORDINATE ON ALL DISTRUBED AREAS. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF FOUR (4) INCHES OF LOAM ON AREAS UP TO 10% IN GRADE. ALL AREAS OVER 10% SHALL RECEIVE A MINIMUM OF SIX (6) INCHES. REFERENCE IS HEREBY MADE TO THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL HANDBOOK PUBLISHED BY THE SOIL CONSERVATION SERVICE. THE GUIDELINES SHOWN THEREIN SHOULD BE INCORPORATED INTO THE CONSTRUCTION PRACTICES ON SITE.

EROSION CONTROL PROGRAM

PRIOR TO START OF CONSTRUCTION, HAYBALES, SILT FENCES & ALL OTHER SPECIFIED EROSION CONTROL FENCES SHALL BE IN PLACE. CRITICAL AREAS SUCH AS WETLAND AREAS, SLOPES & STREAMS SHALL BE PROTECTED AS PER PLAN AND, IN THE PRESENCE OF WETLANDS, THE CONDITIONS OF THE ASSENT ORDER SHALL BE ADHERED TO. THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH AND FULLY MAINTAIN ALL REQUIRED EROSION AND SEDIMENTATION CONTROLS.

SEDIMENTATION CONTROL PROGRAM

ALL EXPOSED SLOPES, INCLUDING STOCKPILES OF MATERIAL, SHALL RECEIVE TEMPORARY SEDIMENTATION & EROSION CONTROLS. THIS WILL INCLUDE LOAMING & SEEDING, MULCHING, HAYMATS, ETC TO STABLIZE THE AREA. ALL DRAINAGE STRUCTURES SHALL BE SURROUNDED BY HAYBALES TO PREVENT INFILTRATION OF SEDIMENTS. SHOULD SEDIMENTS ENTER A CRITICAL AREA (WETLAND, BUFFER ZONE, ABUTTING PROPERTY) THE CONTRACTOR SHALL IMMEDIALTEY CLEAN & RESTORE THE EFFECTED AREA.

GENERAL NOTES

1. *IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY & ALL PERMITS REQUIRED BY THE STATE & THE MUNICIPALITY IN WHICH WORK IS BEING PERFORMED PRIOR TO START OF ANY WORK.*
2. *IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DOCUMENT EXISTING CONDITIONS OF SURROUNDING PROPERTIES & TO MAINTAIN THE INTEGRITY OF SAME. ANY DAMAGE TO & THE COST OF REPAIRS OF UTILITIES, ROADWAYS, STRUCTURES & SURROUNDING PROPERTY SHAL BE FULLY BORNE BY THE CONTRACTOR.*
3. *ALL WORKMANSHIP & MATERIALS SHALL MEET OR EXCEED THE LATEST STANDARDS OF THE MUNCIPALITY; AND THE LATEST STATE STANDARDS & SPECIFICATION PUBLISHED FOR ROAD & BRIDGE CONSTRUCTION.*
4. *CONTACT DIG-SAFE & UTILITY COMPANIES FOR EXACT ON-SITE LOCATION OF EXISTING UNDERGROUND UTILITIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION.*
5. *CONTRACTOR SHALL OBTAIN REQUIRED INSPECTION SCHEDULE OF THE MUNICIPALITY. UTILITY COMPANIES & ALL OTHER REQUIRED PARTIES & SHALL STRICTLY ADHERE TO THOSE REQUIREMENTS.*
6. *ALL CONTRACTORS SHALL ADHERE TO ALL CONDITIONS OF CONSTRUCTION APPROVALS & SHALL KEEP A COPY OF ALL APPROVALS ON-SITE DURING CONSTRUCTION. CONTRACTOR SHALL READ ALL APPROVALS PRIOR TO START OF CONSTRUCTION & SHALL CLARIFY ANY QUESTIONS BEFOREHAND.*

ONSITE WASTEWATER TREATMENT SYSTEM NEW DESIGN

A.P. 8, LOT 108
281 OFF SPRING STREET
NEW SHOREHAM, RHODE ISLAND

Prepared For:
GIBBONS IRREVOCABLE LIVING TRUST

MARCUS CHANNELL
No. 19711
PROFESSIONAL LAND SURVEYOR

ATLAS LAND SURVEYING, LLC
PROPERTY & CONSTRUCTION SURVEYING & MAPPING
91 Parkway Drive ~ Warwick, RI 02886
401-737-4407
WWW.ATLASLANDSURVEYING.COM

REVISION:
AUG 7 2023
DATE: JULY 2023
DRAWN BY: KRC
SCALE: 1" = 30'

Environmental Management
JUL 31 2023
Office of Water Resources

SHEET 1 OF 1 SHEETS
JOB NO. GIBBONS
DWG. NO. GIBBONS-OWTS

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