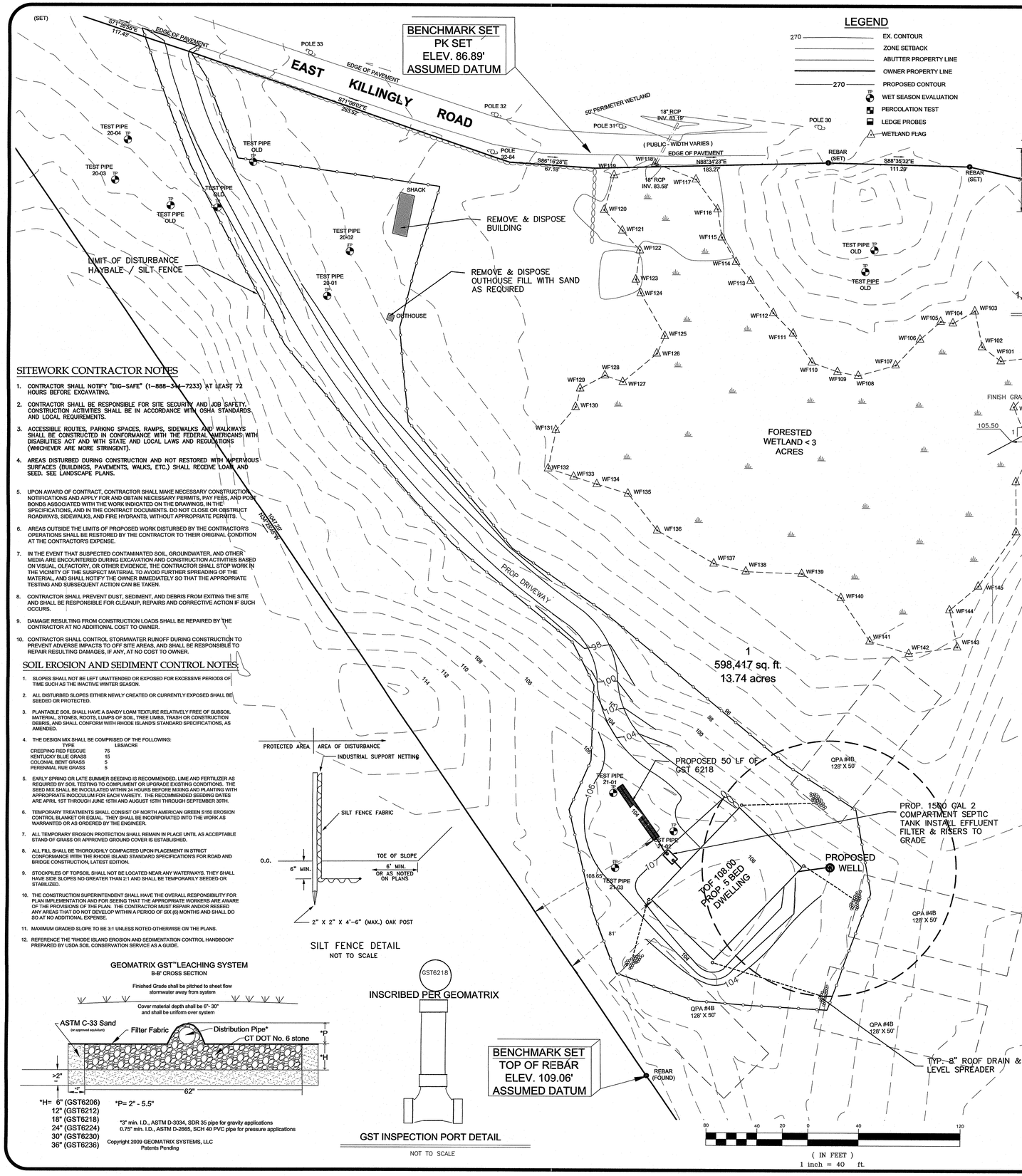
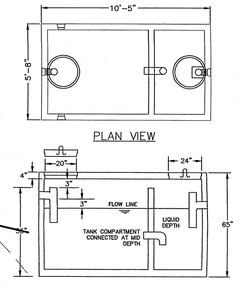


LEGEND

- 270 — EX. CONTOUR
- ZONE SETBACK
- ABUTTER PROPERTY LINE
- OWNER PROPERTY LINE
- 270 — PROPOSED CONTOUR
- WET SEASON EVALUATION
- PERCOLATION TEST
- LEDGE PROBES
- WETLAND FLAG



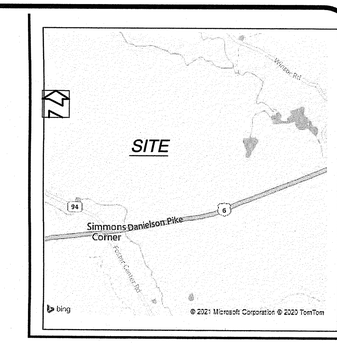
DESIGN NOTES:
1) ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT
2) ALL INLETS AND OUTLETS HAVE STATE-APPROVED SEALS
3) AVAILABLE WITH 8" HEAVY DUTY TOP
4) MEETS ASTM C 1227-97A
5) CONCRETE STRENGTH 5000 PSI MIN. 28 DAYS
6) FIRST COMPARTMENT SHALL HAVE ⅔ TANK CAPACITY.

1,500 GALLON 2-COMPARTMENT SEPTIC TANK

JOLLY PRECAST OR EQUAL
NOT TO SCALE

OWTS NOTES:

1. ALL DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS, WHETHER NOTED HEREON OR NOT, SHALL BE IN CONFORMANCE WITH RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS", JANUARY 1, 2008 AND ALL AMENDMENTS, BY THE RHODE ISLAND DEPT. OF ENVIRONMENTAL MANAGEMENT.
2. STRIP LEACHING AREA OUT TO 0 FEET AROUND ENTIRE PERIMETER AND EXCAVATE DOWN TO ELEVATION 100.00, REMOVING ALL TREES, BRUSH, TOPSOIL, SUBSOIL, UNDESIRABLE MATERIAL AND SOIL CONTAINING FINES. REPLACE WITH GRAVEL IF REQUIRED AS SPECIFIED IN RIDEM REGULATIONS.
3. INSTALLER MUST ASSURE THAT BOTTOM AND SIDES OF EXCAVATION FOR THE LEACHFIELD ARE NOT COMPACTED OR SMEARED.
4. ALL TREES, STUMPS, AND BRUSH SHALL BE REMOVED WITHIN 10 FEET OF THE SYSTEM.
5. MAINTAIN INVERT ELEVATION OF 105.50 FOR 10 FEET AROUND SYSTEM.
6. THERE ARE NO KNOWN PRIVATE WELLS OR DRAINS EXIST. OR PROPOSED LOCATED WITHIN 200 FEET OF THE OWTS EXCEPT AS SHOWN AND NO KNOWN PUBLIC WELLS (EXIST. & PROP.) LOCATED WITHIN 500 FEET OF THE PROPOSED ISDS.
7. THERE ARE NO KNOWN SUBSURFACE DRAINS, EXISTING OR PROPOSED, WITHIN 50 FEET OF THE PROPOSED OWTS.
8. ALL PVC PIPE SHALL BE 4" DIA. SDR 35 OR EQUIVALENT, UNLESS NOTED OTHERWISE.
9. THE DISTRIBUTION BOX SHALL HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET.
10. NO VEHICULAR TRAFFIC IS ALLOWED OVER THE LEACHFIELD.
11. THE SITE IS LOCATED IN THE SCITUATE RESERVOIR WATERSHED.



LOCUS MAP

NOT TO SCALE

QPA SIZING CALCULATIONS

ROOF TOPS

LENGTH – QPA–#1A = 1,700 SF / 13.3 = 128' LONG
WIDTH – QPA –#1A = ROOF LENGTH = 50' WIDE
LENGTH – QPA–#1B = 1,700 SF / 13.3 = 128' LONG
WIDTH – QPA –#1B = ROOF LENGTH = 50' WIDE
LENGTH – QPA–#1C = 1,700 SF / 13.3 = 128' LONG
WIDTH – QPA –#1C = ROOF LENGTH = 50' WIDE
LENGTH – QPA–#1D = 1,700 SF / 13.3 = 128' LONG
WIDTH – QPA –#1D = ROOF LENGTH = 50' WIDE

Environmental Management
APR 19 2021
Office of Water Resources

SITEWORK CONTRACTOR NOTES

1. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
3. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL "AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).
4. AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE LOAM AND SEED. SEE LANDSCAPE PLANS.
5. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
6. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
7. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
8. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
9. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
10. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
3. PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATIONS, AS AMENDED.
4. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	LBS/ACRE
CREEPING RED FESCUE	75
KENTUCKY BLUE GRASS	15
COLONIAL BENT GRASS	5
PERENNIAL RUE GRASS	5

5. EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. LIME AND FERTILIZER AS REQUIRED BY SOIL TESTING TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING WITH APPROPRIATE INOCCULUM FOR EACH VARIETY. THE RECOMMENDED SEEDING DATES ARE APRIL 1ST THROUGH JUNE 15TH AND AUGUST 15TH THROUGH SEPTEMBER 30TH.
6. TEMPORARY TREATMENTS SHALL CONSIST OF NORTH AMERICAN GREEN S150 EROSION CONTROL BLANKET OR EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
7. ALL TEMPORARY EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL AS ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
8. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
9. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR ANY WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED OR STABILIZED.
10. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN A PERIOD OF SIX (6) MONTHS AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
11. MAXIMUM GRADED SLOPE TO BE 3:1 UNLESS NOTED OTHERWISE ON THE PLANS.
12. REFERENCE THE "RHODE ISLAND EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY USDA SOIL CONSERVATION SERVICE AS A GUIDE.

SILT FENCE DETAIL
NOT TO SCALE

GEOMATRIX GST™ LEACHING SYSTEM
B-B' CROSS SECTION

Finished Grade shall be pitched to sheet flow stormwater away from system

*H= 6" (GST6206)
12" (GST6212)
18" (GST6218)
24" (GST6224)
30" (GST6230)
36" (GST6236)

*P= 2" - 5.5"

*3" min. I.D., ASTM D-3034, SDR 35 pipe for gravity applications
0.75" min. I.D., ASTM D-2665, SCH 40 PVC pipe for pressure applications

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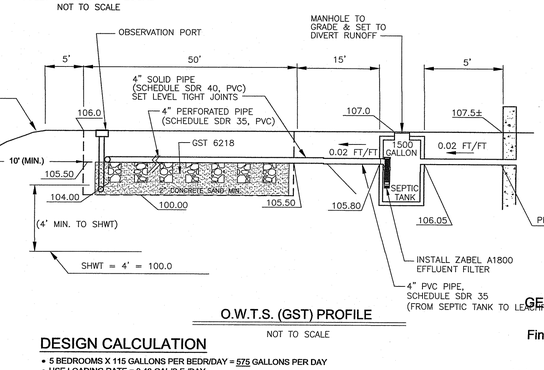
Patents Pending

GST INSPECTION PORT DETAIL
NOT TO SCALE



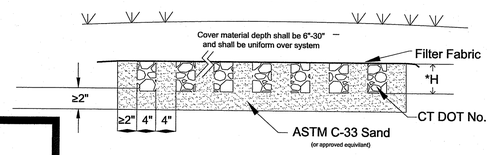
O.W.T.S. (GST) PROFILE
NOT TO SCALE

THE SUBJECT PARCEL LIES WITHIN A FLOOD ZONE X AREA AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP NUMBER 44007C-0255, EFFECTIVE DATE MARCH 1, 2009.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
OWTS & FRESHWATER WETLANDS
JOINT PERMIT APPROVAL
OWTS# 93D-2508 RWW# 21-0077
APPROVED: [signature] DATE 4/20/21
No Changes Allowed Without RIDEM Approval
Approved Plans/Permit Must Be Kept at Construction Site

GEOMATRIX GST LEACHING SYSTEM
A-A' CROSS SECTION

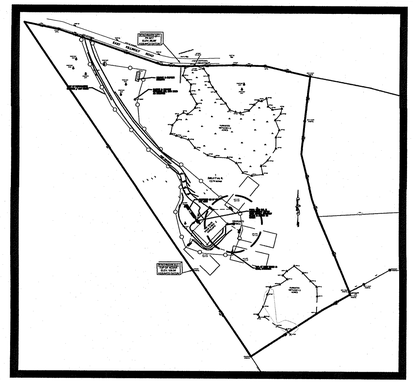
Finished Grade shall be pitched to sheet flow stormwater away from system



GEOMATRIX ST LEACHING SYSTEM
A-A' Cross Section
Geomatrix Systems, LLC., Old Saybrook, CT
860-510-0730

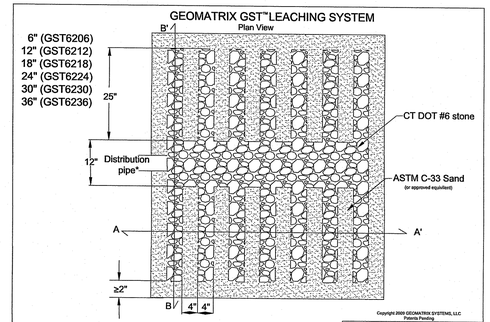
DESIGN CALCULATION

- 5 BEDROOMS X 115 GALLONS PER BEDR/DAY = 575 GALLONS PER DAY
- USE LOADING RATE = 0.48 GAL/S.F./DAY
- 575 GPD / 0.48 GAL/S.F./DAY = 1,198 S.F. LEACHING AREA REQUIRED
- 1,198 USE GST 6218 / 24.8 S.F. PER LINIER FT = 48.3 LF USE 50 LF
- ¾" STONE VOLUME = 18 CY
- C-33 SAND VOLUME = 23 CY



OVERALL PLAN 1"=250'

GEOMATRIX GST™ LEACHING SYSTEM
Plan View



*3" min. I.D., ASTM D-3034, SDR 35 pipe for gravity applications
0.75" min. I.D., ASTM D-2665, SCH 40 PVC pipe for pressure applications

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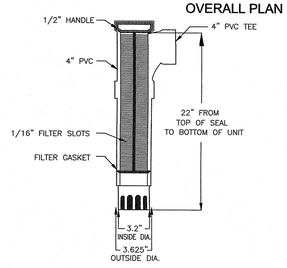
Patents Pending

GEOMATRIX ST LEACHING SYSTEM
Plan View
Geomatrix Systems, LLC., Old Saybrook, CT
860-510-0730
Scale: none REV: C-02/28/05
Date: 5/26/2022 ACAD File: ST 1-12 PLAN VIEW.DWG
Drawn By: DSP SHEET 1 OF 3



CROSS SECTION VIEW
ZABEL A1800 EFFLUENT FILTER
NOT TO SCALE

OWTS SITE PLAN & DETAILS
OWTS DESIGN
A.P. 14 LOT 69
EAST KILLINGLY ROAD FOSTER, RI

PREPARED FOR:
ESTATE OF MARIA PECKHAM BY CONSTANCE ELLIOT
63 HARTFORD PIKE SCITUATE, RI 02857

NICHOLAS J. PIAMPIANO
No. 6512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
D 3059

ADVANCED CIVIL DESIGN, INC.
CIVIL ENGINEERS
88 PEEPTOAD ROAD
SCITUATE, RI 02857
P1: (401) 644-8656
P2: (401) 473-4404

NO.	DATE	DESCRIPTION
1	4/18/21	PER RIDEM

DATE: MARCH 8, 2021
SCALE: AS NOTED
DESIGN/CHECK BY: C.S.R.
SHEET NO.
1
1 OF 1