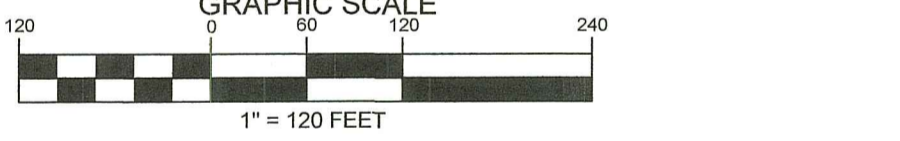
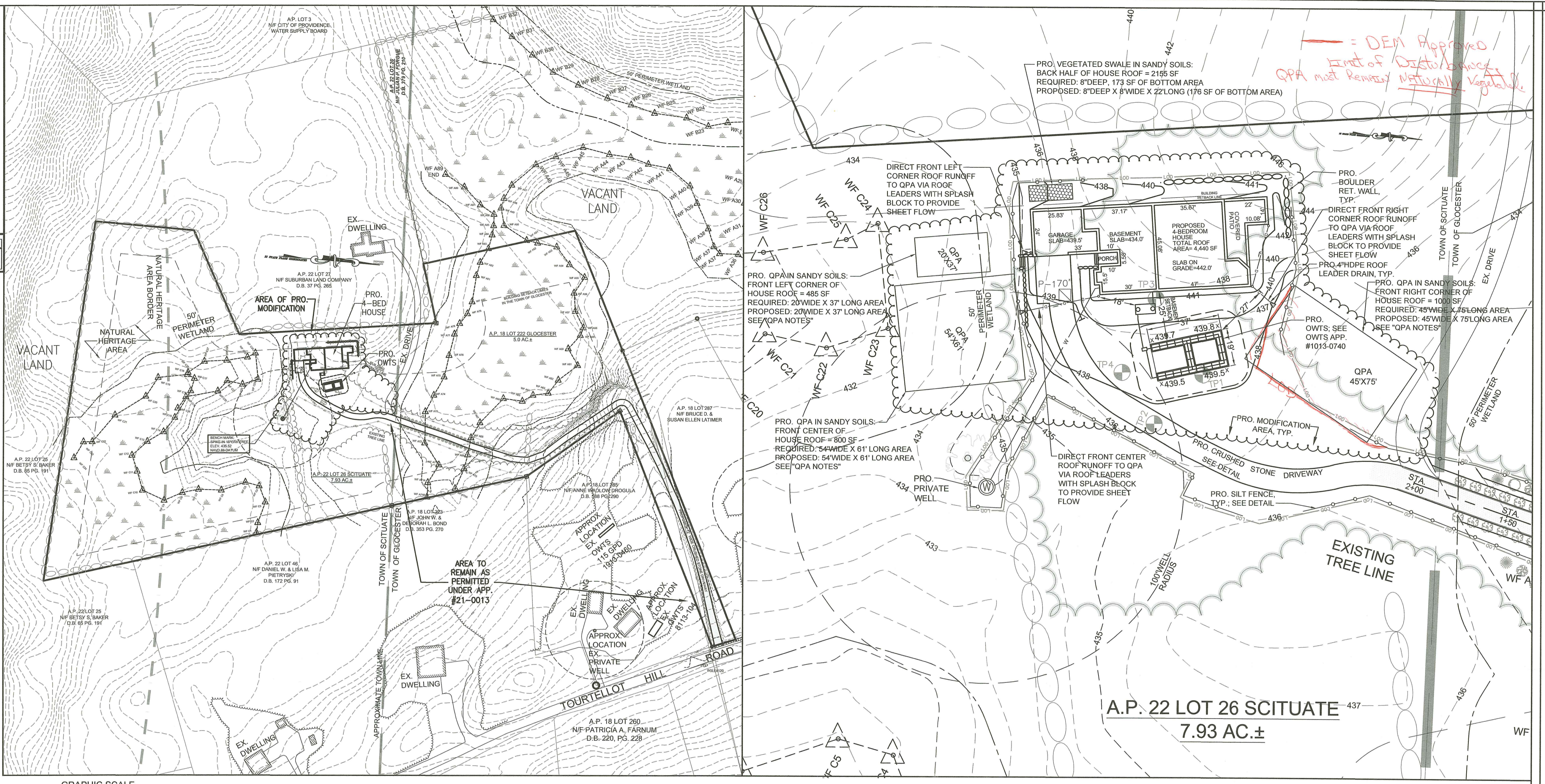


LOCUS MAP
SCALE: 1"=200'

- PLAN REFERENCES:**
1. THIS PLAN MODIFIES A PLAN OF THE ORIGINAL DEM FRESHWATER WETLAND PERMIT #21-0013. PROPERTY LINES, TOPOGRAPHY, AND EXISTING CONDITIONS OBTAINED FROM SAID PLAN, WHICH IS TITLED TO E.M. APPLICATION PLAN JULIAN P. FORGUE TOURTELLOT HILL ROAD ASSESSORS PLAT 18 LOT 222 GLOUCESTER, RHODE ISLAND SITE MAP & OWTS PLAN DATED 03/04/22 SHEET 1 OF 3.
 2. A PLAN ENTITLED "DIVISION OF LAND IN THE TOWN OF GLOUCESTER, R.I. OWNED BY MRS. JOHN A. GANTNER LOTS 1, 2, & 3 PORTION OF ASSESSORS PLAT 18, LOT 222 TOURTELLOT HILL ROAD, GLOUCESTER, R.I." SURVEYED BY ROBERT L. BURRILL, R.L.S.#1743, DATED: NOVEMBER 5, 1979. SAID PLAN IS RECORDED IN THE GLOUCESTER RI TOWN HALL IN PLAT MAP #245 DRAW 5.
 3. A PLAN ENTITLED "PLAT OF MARTIN S. SMITH FARM SCITUATE, RI" SCALE 1"=160' DATED: 1914 SURVEYED BY R.S. MOWRY, SAID PLAN IS RECORDED IN THE SCITUATE, RI TOWN HALL AS PLAT #89 ENVELOPE 21.
 4. A PLAN ENTITLED "SITE PLAN ROCKY HILL ROAD ASSESSOR'S PLAT 22 LOT 30 SCITUATE, RHODE ISLAND PREPARED BY DIPRETE ENGINEERING ASSOCIATES, INC. ENGINEERING, SURVEYING AND PLANNING CONSULTANTS TWO STAFFORD COURT CRANSTON, R.I. 02920 (401) 943-1000 FAX: (401) 464-6006 PREPARED FOR OMEGA FINANCIAL CORP. 100 MIDWAY ROAD, SUITE 19 CRANSTON, RI 02920 (401)331-3330 DATED: JUNE 2004. REVISED: 11-23-04, SCALE 1"=100', SHEET 1 OF 1. 2 FOOT CONTOURS OUTSIDE OF SURVEYED AREA OBTAINED FROM RIGIS 2FT LIDAR DATA.

- GENERAL NOTES:**
1. PROPERTY LINES ARE APPROXIMATE AND OBTAINED FROM PLAN REFERENCED IN NOTE #1 OF THE "PLAN REFERENCES".
 2. THIS SITE DOES LIE WITHIN THE SCITUATE WATERSHED AREA.
 3. WETLANDS SHOWN HEREIN WERE DELINEATED BY NATURAL RESOURCE SERVICES, INC. P.O. BOX 311 HARRISVILLE, RI 02830, DECEMBER, 2007.
 4. THE SUBJECT PARCEL LIES PARTIALLY WITHIN A NATURAL HERITAGE AREA AS DEPICTED ON THE DEM ENVIRONMENTAL RESOURCE MAP. THE PROPOSED LIMITS OF DISTURBANCE LIE OUTSIDE OF SAID NATURAL HERITAGE AREA AS DEFINED BY THE DEM ENVIRONMENTAL RESOURCE MAP.
 5. THERE ARE NO KNOWN EASEMENTS OR RIGHTS OF WAY WITHIN OR ADJACENT TO THIS PARCEL, EXCEPT AS SHOWN.
 6. AREA IS IN ZONE X AS PER FLOOD INSURANCE RATE MAP 44007C0260G, PANEL 260 OF 451, EFFECTIVE DATE MARCH 2, 2009.



120-SCALE SITE PLAN
SCALE: 1"=120'



30-SCALE PLAN
SCALE: 1"=30'



- LEGEND**
NOT TO SCALE
- BOUNDARY
 - ABUTTER
 - STONEWALL
 - BOUNDARY TO BE ABANDONED
 - IRON PIN
 - BOUND
 - DRILL HOLE
 - UTILITY POLE
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - WETLANDS EDGE
 - 50' PERIMETER WETLAND
 - BUILDING ENVELOPE
 - SOIL EVALUATION HOLE
 - WELL
 - SILT FENCE
 - LIMIT OF DISTURBANCE

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

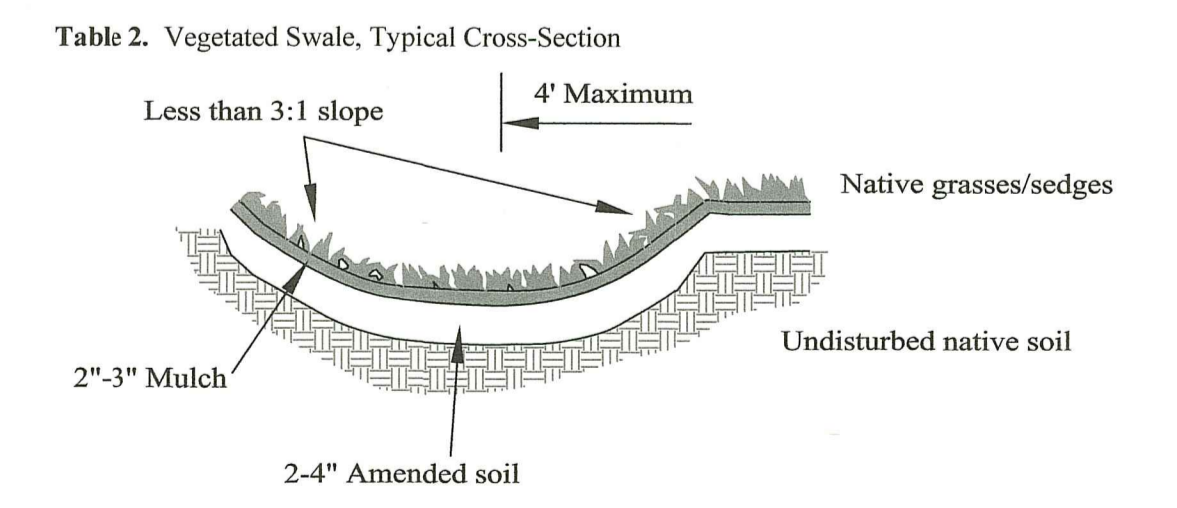
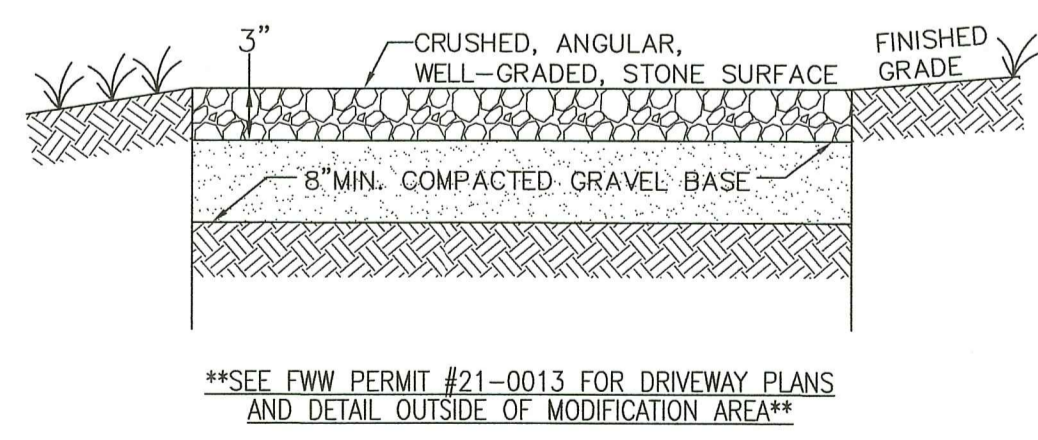


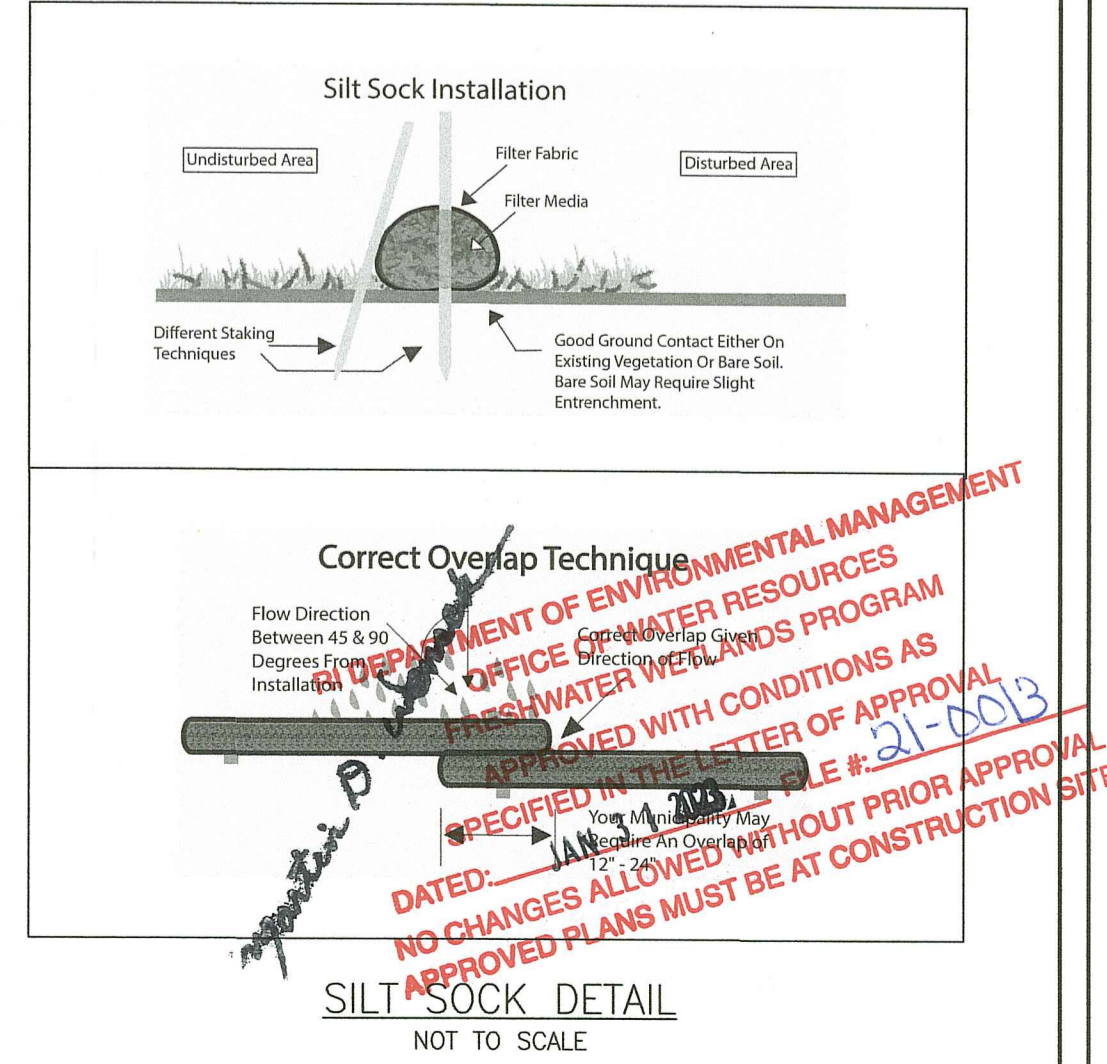
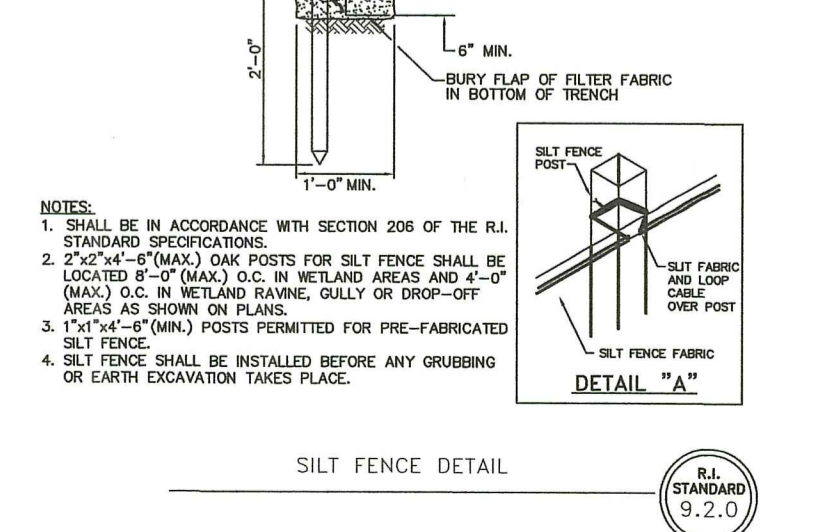
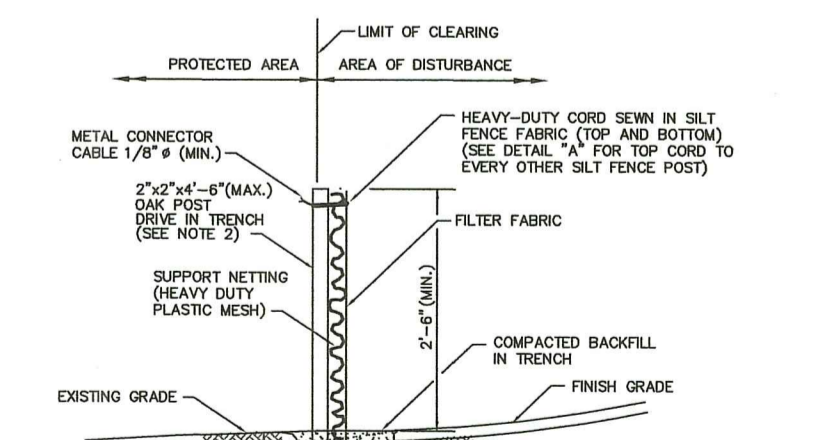
Table 5. Vegetated Swale Sizing Guidance

Drainage Area (in square feet)	Bottom surface Area (in square feet) for an 8 in. deep swale	
	Sandy Soils*	Silty Soils*
200	16	32
400	32	64
600	48	96
800	64	128
1000	80	160



- DRIVEWAY MAINTENANCE NOTES:**
1. THE SURFACE OF THE DRIVEWAY SHALL BE MONITORED AFTER STORMS TO ENSURE IT DRAINS PROPERLY. THE SURFACE SHALL BE INSPECTED ANNUALLY FOR DETERIORATION AND REPAIRED AS NEEDED.
 2. USE OF SAND AND SALT ON DRIVEWAY SHALL BE MINIMIZED.
 3. DRIVEWAY SHALL NOT BE REPAVED OR RESEALED WITH IMPERMEABLE PRODUCTS.
 4. PEASTONE/CRUSHED STONE SHALL BE REPLACED OR RE-GRADING PERFORMED AS NECESSARY TO MAINTAIN THE MINIMUM DEPTH OF STONE AND A LEVEL BOTTOM SURFACE.

PROPOSED DRIVEWAY SECTION DETAIL
(IN AREA OF PROPOSED MODIFICATION ONLY)
NOT TO SCALE



PROPOSED MODIFICATION OF DEM FWW APP #21-0013
OWNER/APPLICANT: TONI AND FRANCO FRESILLO
53 MAPLEWOOD AVE
CRANSTON, RI 02920

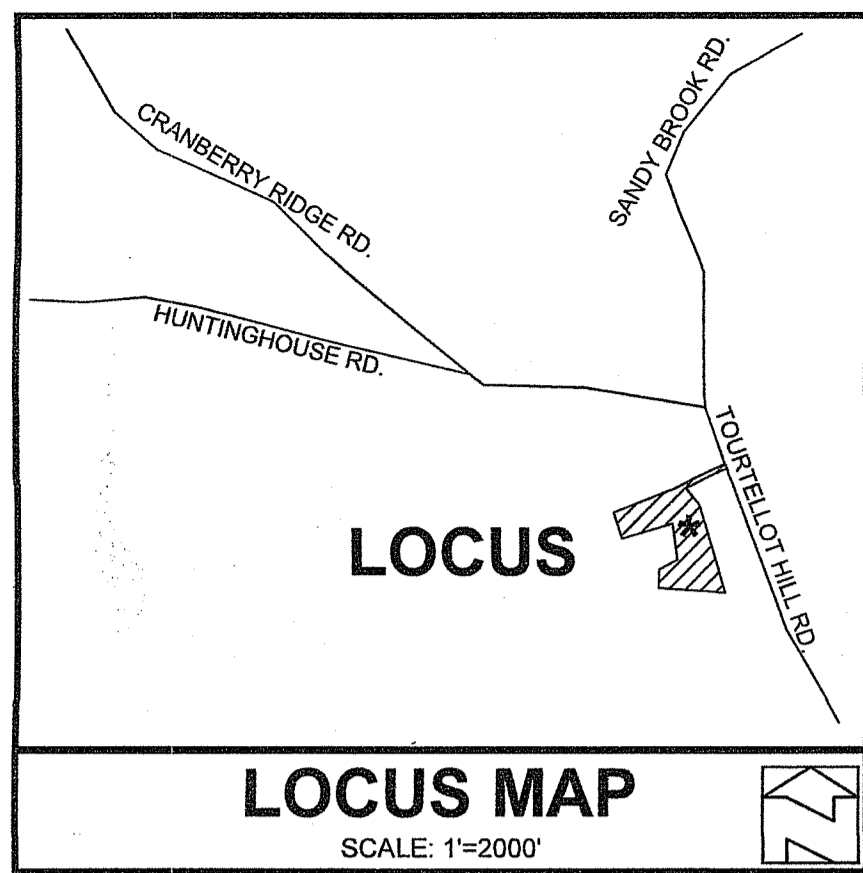
REVISIONS:

NO.	DATE	DESCRIPTION	BY
1.	08-03-22	DKM COMMENTS	DKM

REGISTRATION:
DAVID KENNETH MANONI
REGISTERED PROFESSIONAL ENGINEER (C06)

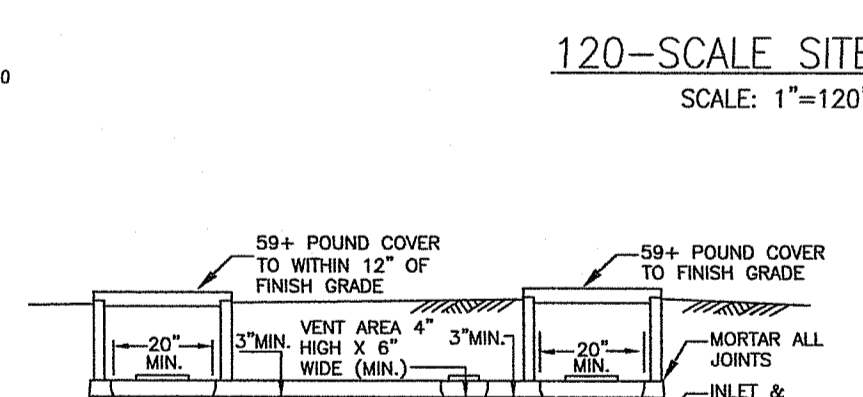
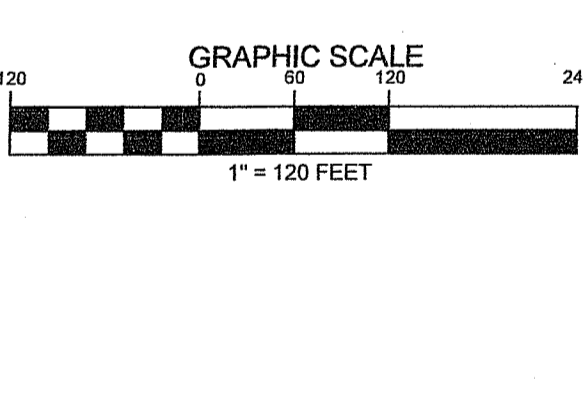
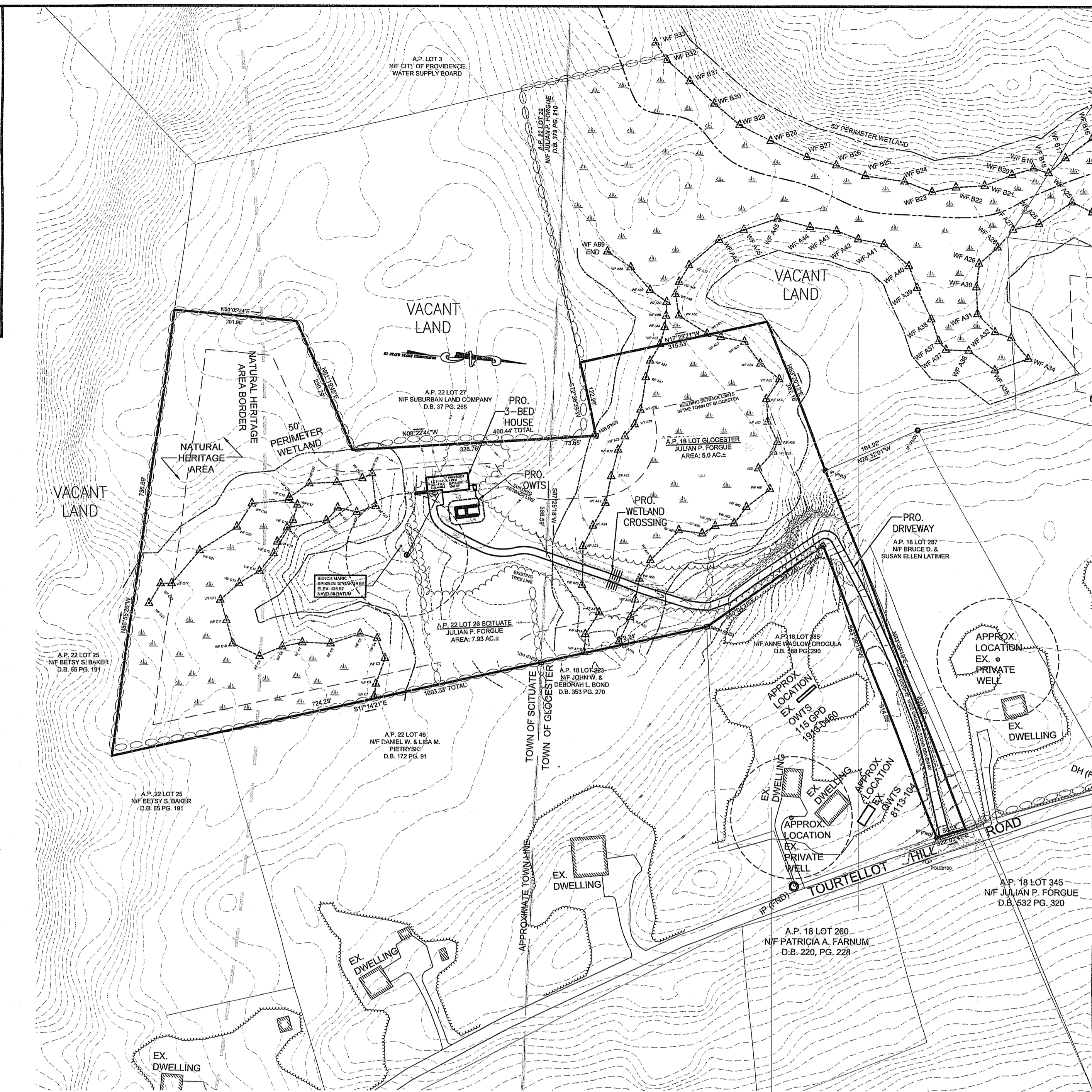
RI Environmental Management
AUG 4 2022
Office of Water Resources

GROUND BREAKING DESIGNS, LLC
CIVIL ENGINEERING SOLUTIONS
90 HIGHLAND AVE., SOUTH KINGSTOWN, RI 02879
PHONE: (401) 622-2932

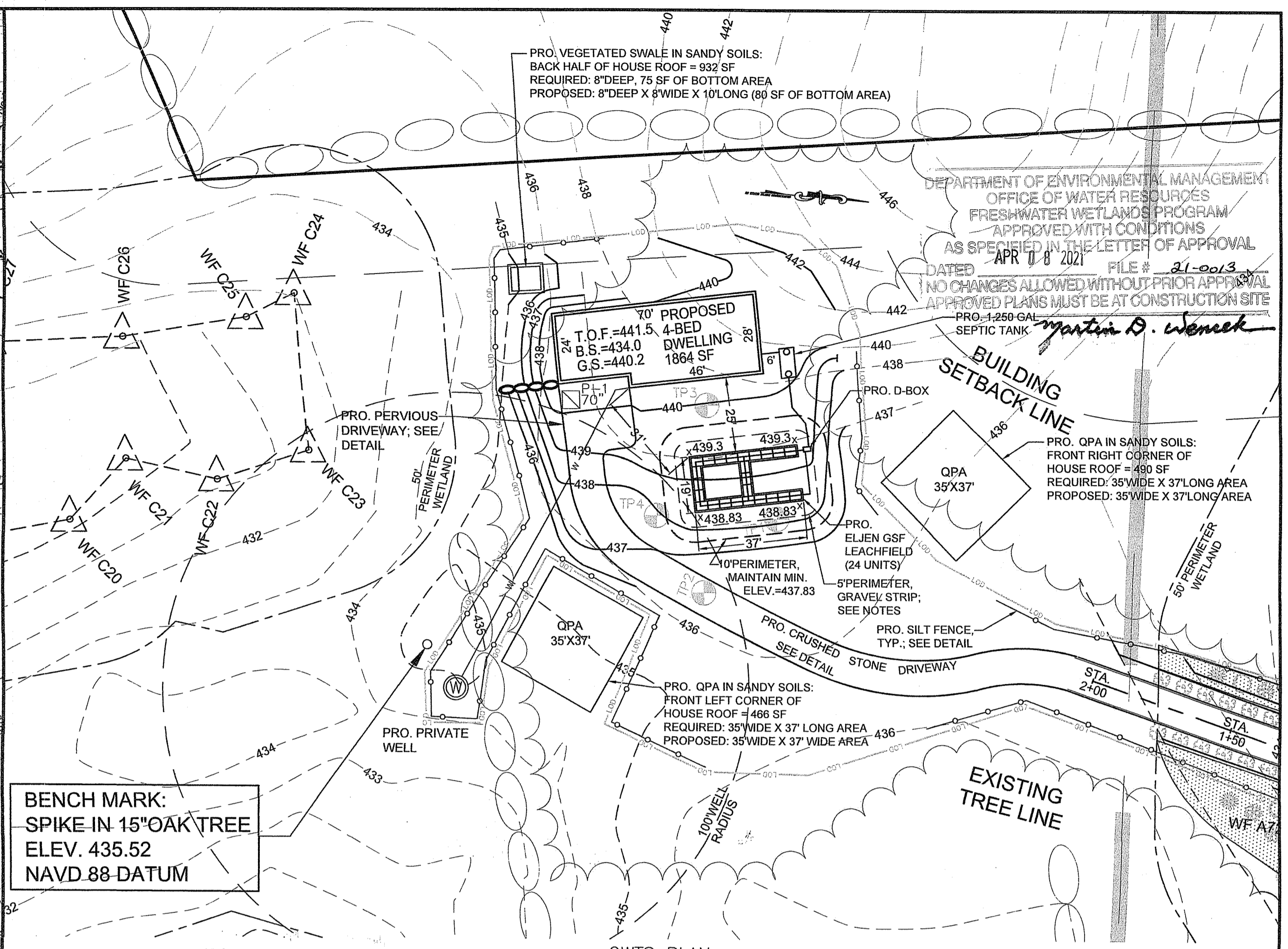
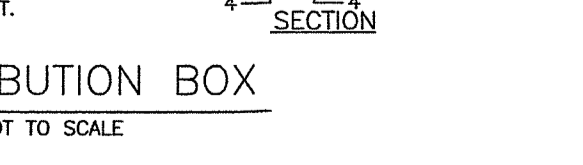
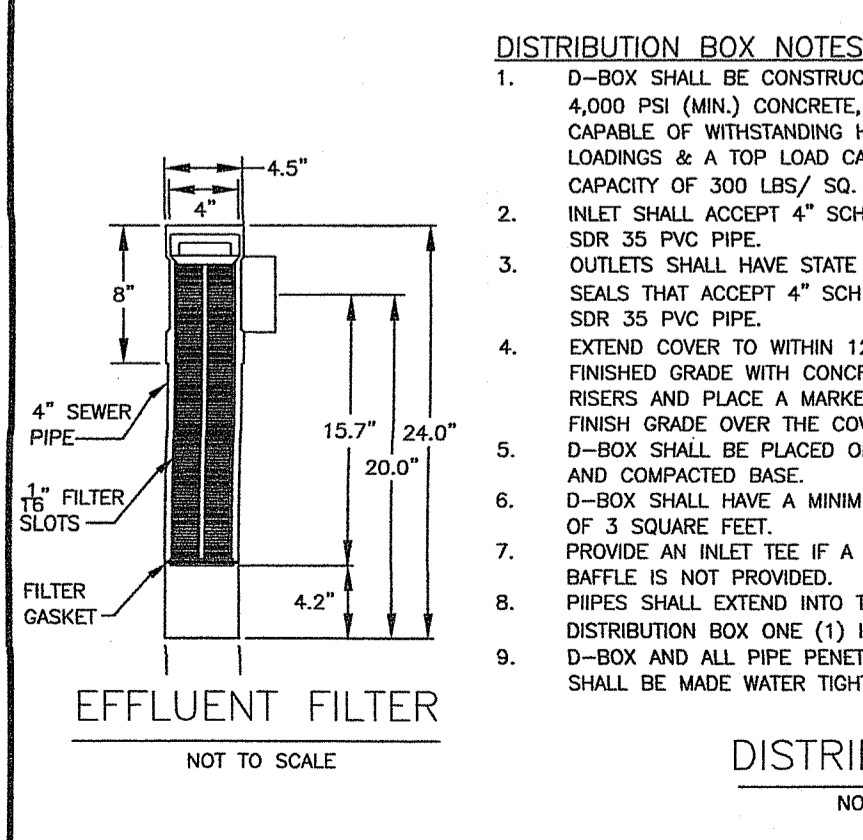
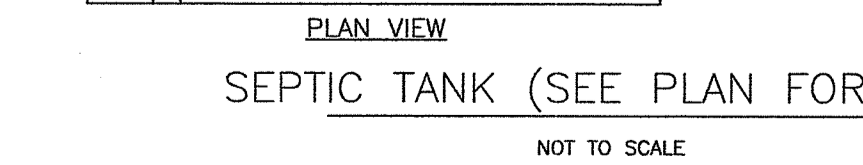


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 - WETLANDS SHOWN HEREIN WERE DELINEATED BY NATURAL RESOURCES, INC. P.O. BOX 311 HARRISVILLE, RI 02883, DECEMBER, 2007.
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- LEGEND**
NOT TO SCALE
- BOUNDARY
 - ABUTTER
 - STONEWALL
 - BOUNDARY TO BE ABANDONED
 - IRON PIN
 - BOUND
 - DRILL HOLE
 - UTILITY POLE
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - WETLANDS EDGE
 - 50' PERIMETER WETLAND
 - BUILDING ENVELOPE
 - SOIL EVALUATION HOLE
 - WELL
 - SILT FENCE
 - LIMIT OF DISTURBANCE



- SEPTIC TANK NOTES:**
- SEPTIC TANK SHALL BE WATER TIGHT AND CONSTRUCTED OF PRECAST REINFORCED CONCRETE.
 - PRECAST REINFORCED CONCRETE TANKS SHALL CONFORM WITH ASTM C-1227-02, LATEST EDITION.
 - TANKS SHALL BE PERMANENTLY MARKED AT THE INLET END OF THE TANK WITH DATE OF MANUFACTURE, NAME OF MANUFACTURER, CAPACITY, AN EXTERNAL LOADS FOR WHICH TANK IS DESIGNED TO RESIST.
 - A WARNING LABEL AT ALL OPENINGS SHALL BE PROVIDED WHICH READS "ENTRANCE INTO THE TANK COULD BE FATAL".
 - TANK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
 - TANK SHALL BE INSTALLED ON A LEVEL, STABLE BASE THAT WILL NOT SETTLE.
 - SURFACE WATER SHALL BE DIVERTED AWAY FROM THE TANK OPENINGS.
 - TANK SHALL NOT BE DAMAGED DURING BACKFILLING. BACKFILL MATERIAL SHALL BE FREE OF LARGE STONES, STUMPS, WASTE, CONSTRUCTION MATERIAL, RUBBISH, ORGANIC MATERIAL, AND FROZEN SOILS.
 - TANK AND RISERS SHALL BE TESTED FOR WATER TIGHTNESS BY EITHER VACUUM TESTING OR WATER PRESSURE TEST AS SPECIFIED IN THE "RULES". CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT THE TEST PASSED PRIOR TO C.O.C.
 - JOINTS OF ALL CONCRETE TANKS SHALL BE SEALED WITH A 1" DIA. BUTYL RUBBER SEALANT OR APPROVED EQUAL.



TESTHOLES

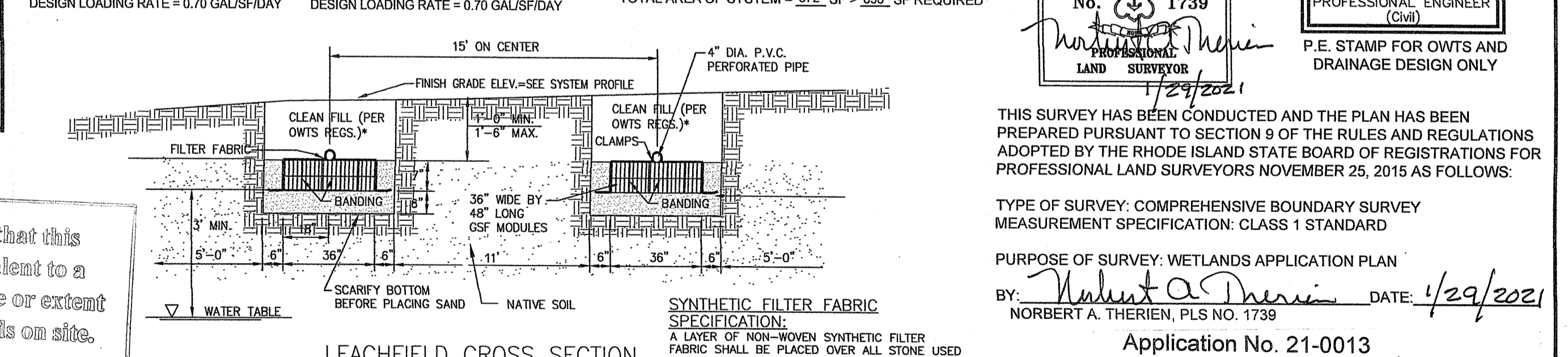
TH-1			TH-3		
HORIZON	DEPTH	TEXTURE	HORIZON	DEPTH	TEXTURE
Ap	0-2"	LS	Oi	2'-0"	LS
Bw	2'-19"	LS	Ap	0-2"	S
C	19'-57"	G.S.L	Bw	2'-28"	S
			C	28'-67"	CB, G.S.L

E.S.H.G.W.T. = 36"
DESIGN LOADING RATE = 0.70 GAL/SF/DAY

TH-2			TH-4		
HORIZON	DEPTH	TEXTURE	HORIZON	DEPTH	TEXTURE
Oi	2'-0"	LS	Oi	2'-0"	LS
Ap	0-3"	LS	Ap	0-3"	LS
Bw	3'-27"	LS	Bw	3'-23"	S
C	27'-84"	G.S.L	C	23'-68"	G.S.L

E.S.H.G.W.T. = 36"
DESIGN LOADING RATE = 0.70 GAL/SF/DAY

OWTS DESIGN DATA
4-BEDROOM DWELLING
115 GAL/BR/DAY = 468 GAL/DAY /
0.70 GAL/SF/DAY = 668 SF REQUIRED
ELIEN UNIT = 28 SF/UNIT
24 ELIEN UNITS PROVIDED = 672 SF
TOTAL AREA OF SYSTEM = 672 SF > 668 SF REQUIRED



SEPTIC GRAVEL SPECIFICATION:
GRAVEL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 3". UP TO 10% MAY BE SIZED BETWEEN 3/4" AND 3". GRAVEL SHALL MEET THE FOLLOWING:

SIZE	% PASSING	SIZE	% PASSING
3/4"	100%	#40	10%-50%
#4	85%-100%	#100	0%-20%
#10	40%-100%	#200	0%-2%

APPLICANT/OWNER:
JULIAN P. FORGUE
458 SNAKE HILL ROAD
N. SCITUATE, RI 02857
401-641-5455

NO. DATE DESCRIPTION BY

NO.	DATE	DESCRIPTION	BY

JULIAN P. FORGUE
TOURTELLOT HILL ROAD
ASSESSORS PLAT 18 LOT 222
GLOCESTER, RHODE ISLAND
ASSESSORS PLAT 22 LOT 26
SCITUATE, RHODE ISLAND

SITE MAP & OWTS PLAN
DRAWN BY: W.C.R. CHECKED BY: N.A.T. FIELD BY: E.M.
JOB No. 2016-19 SHEET 1 OF 3

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 18 2021 FILE # 21-0013
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NATIONAL
Surveyors-Developers
Inc.
42 Hamlet Ave., Woonsocket, R.I.
(401) 769-7779

NORBERT A. THERIEN
No. 1739
REGISTERED LAND SURVEYOR
1/29/2021

DAVID KENNETH MANONI
REGISTERED PROFESSIONAL ENGINEER (Civil)
P.E. STAMP FOR OWTS AND DRAINAGE DESIGN ONLY

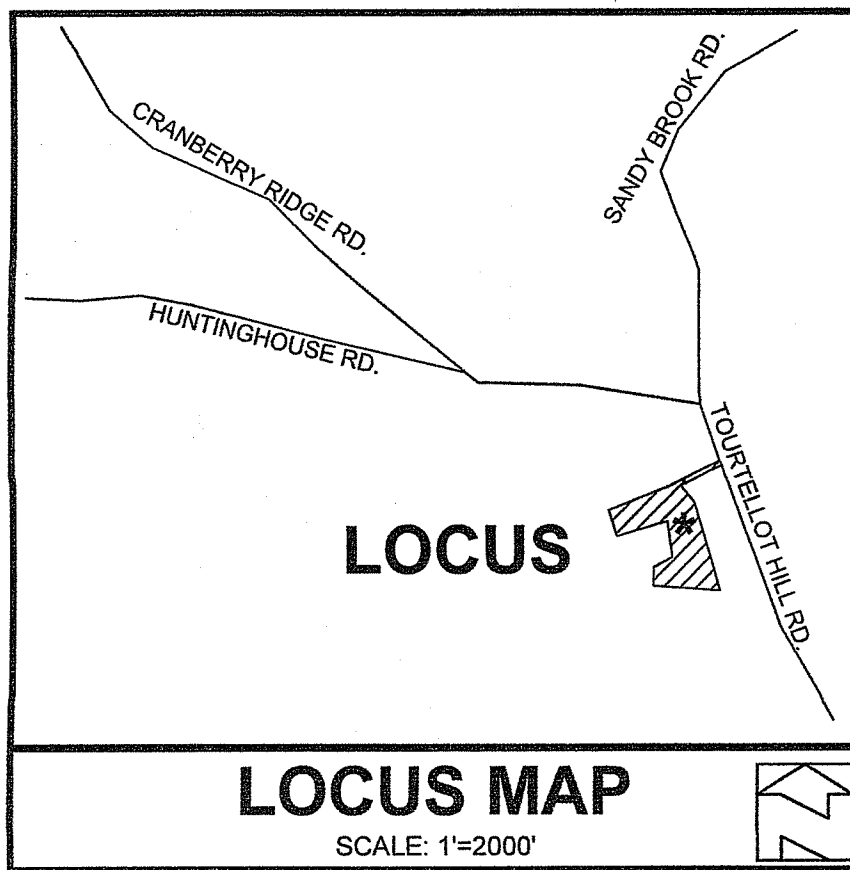
GROUND BREAKING DESIGNS, LLC
90 HIGHLAND AVE.
SOUTH KINGSTOWN, R.I.
(401) 622-2932

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATIONS FOR PROFESSIONAL LAND SURVEYORS NOVEMBER 25, 2015 AS FOLLOWS:

TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY
MEASUREMENT SPECIFICATION: CLASS 1 STANDARD

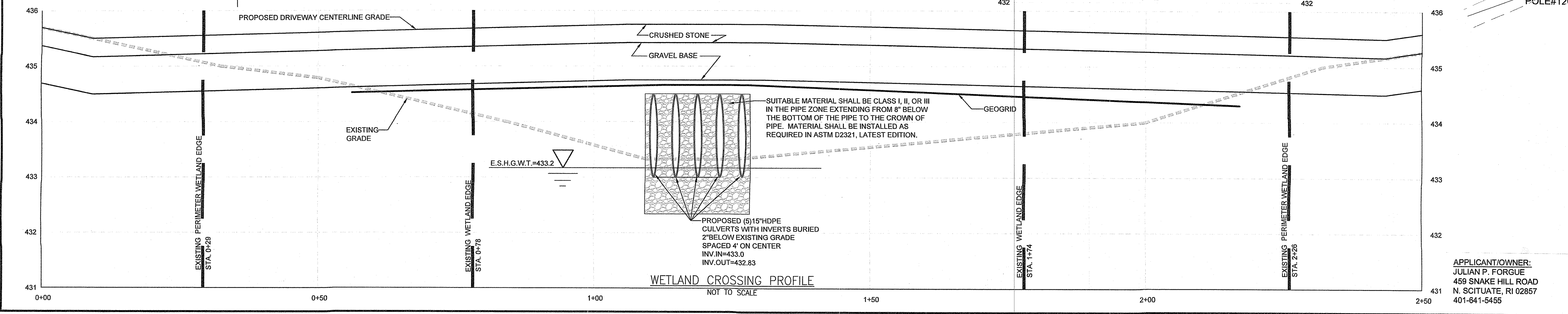
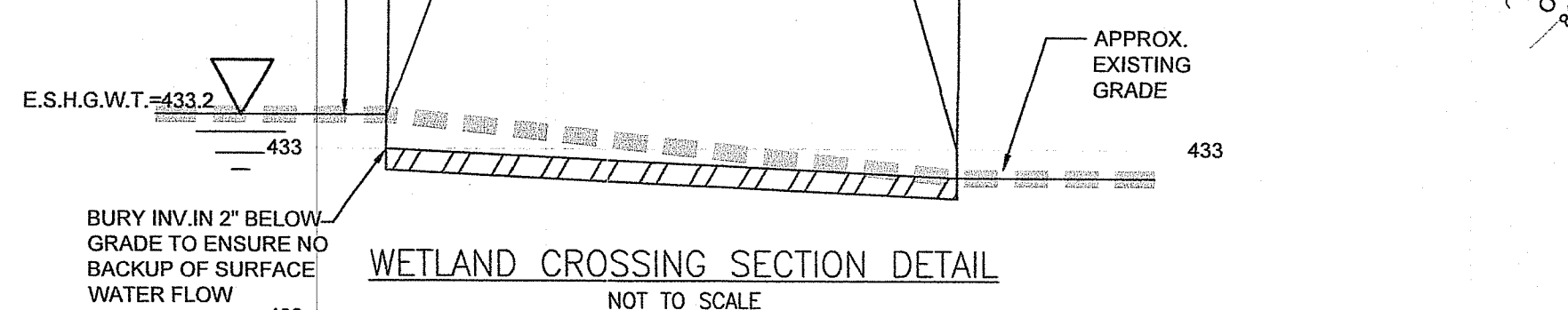
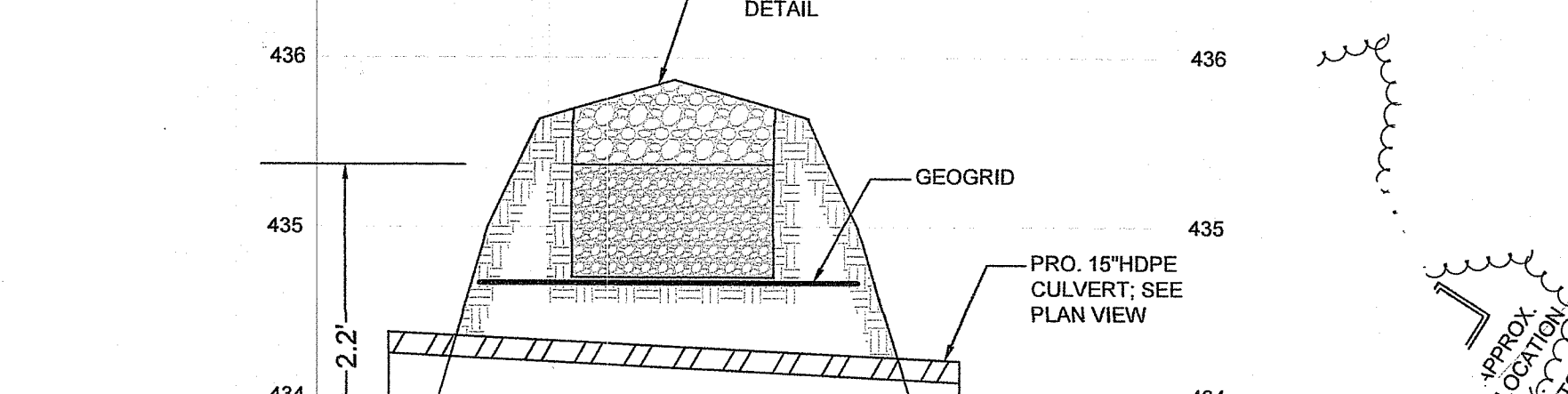
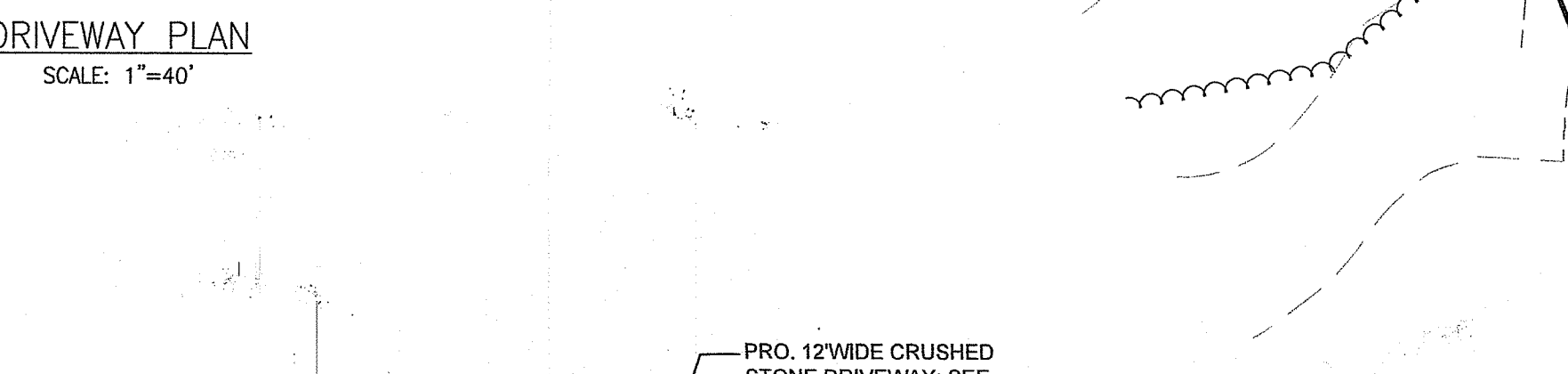
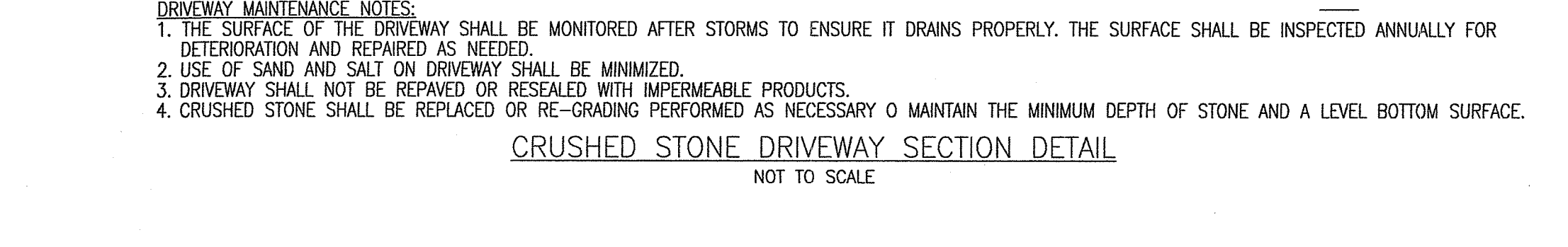
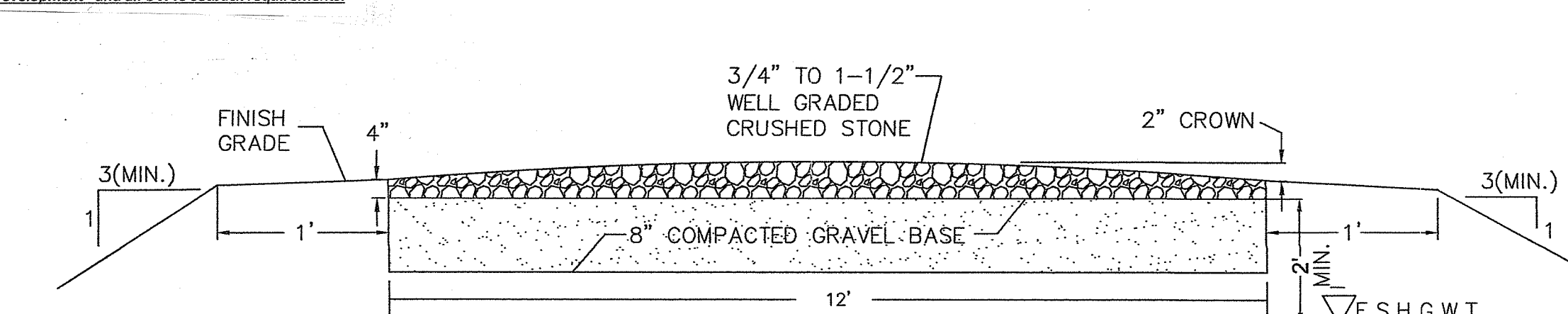
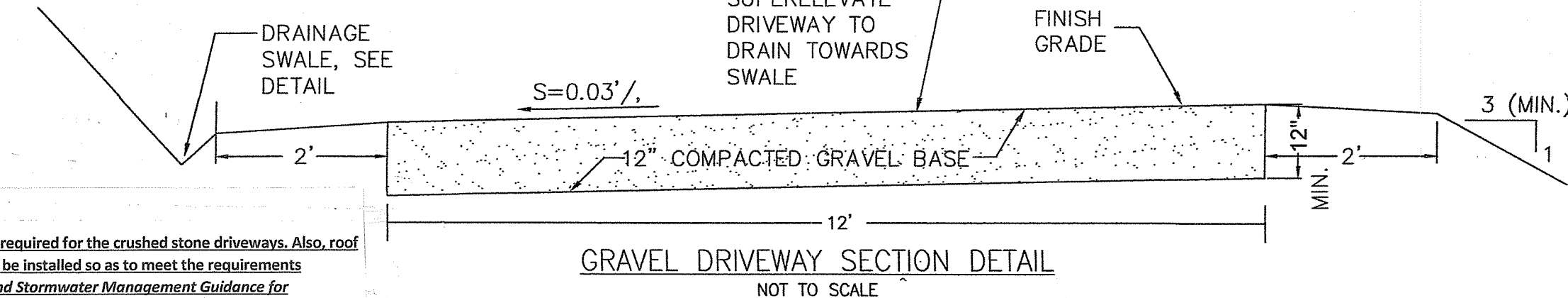
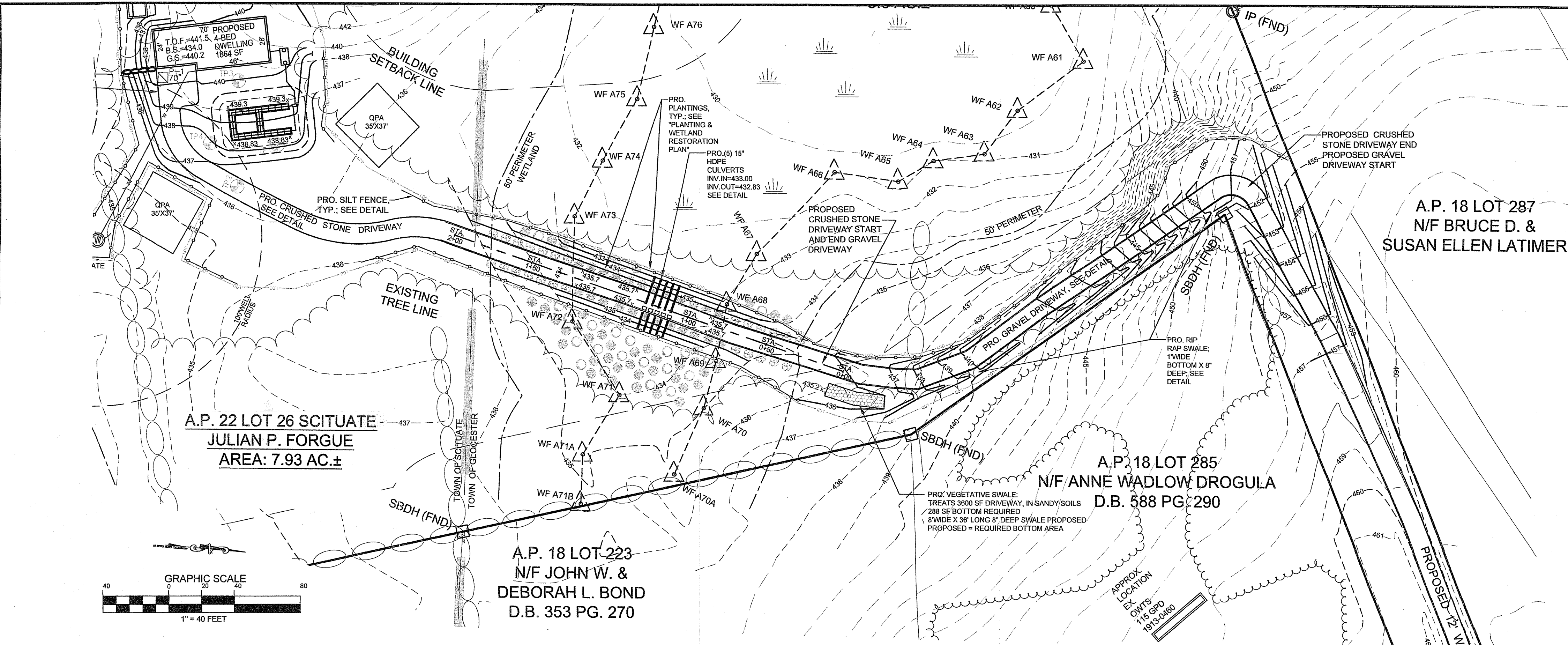
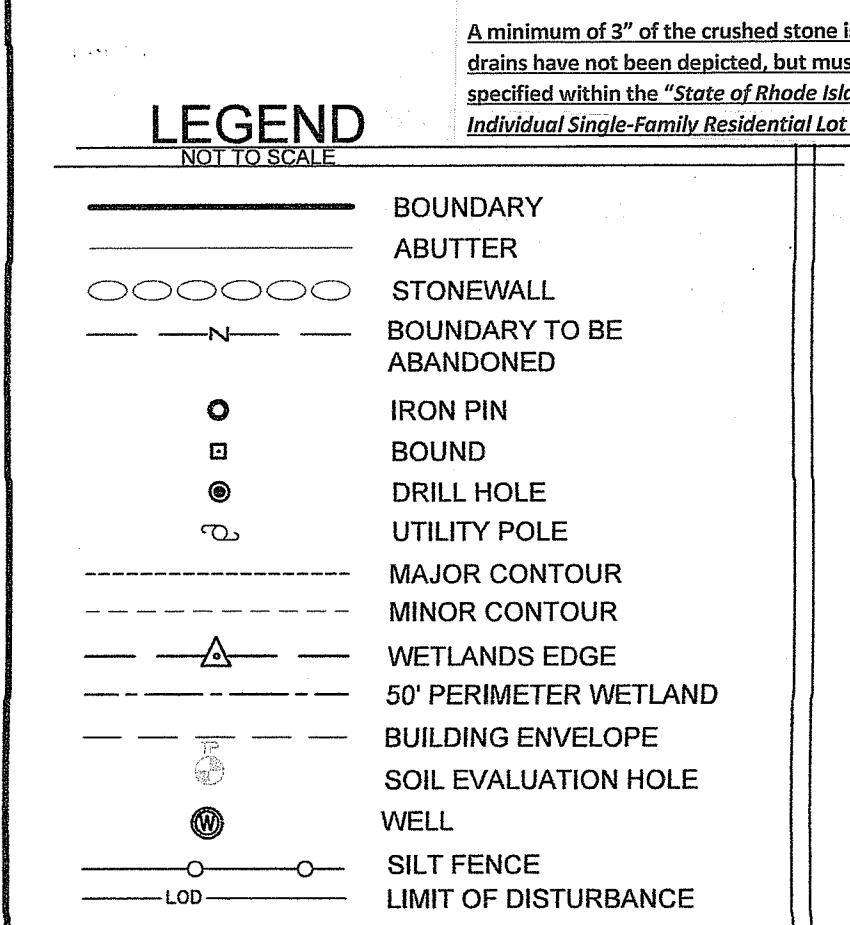
PURPOSE OF SURVEY: WETLANDS APPLICATION PLAN
BY: *Norbert A. Therien* DATE: 1/29/2021
NORBERT A. THERIEN, PLS NO. 1739

Application No. 21-0013



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NATIONAL Surveyors-Developers Inc.
42 Hamlet Ave., Woonsocket, R.I. (401) 769-7779

NORBERT A. THERIEN
No. 12484
PROFESSIONAL LAND SURVEYOR

DAVID KENNETH MANONI
No. 12484
REGISTERED PROFESSIONAL ENGINEER (Civil)
P.E. STAMP FOR OWMTS AND DRAINAGE DESIGN ONLY

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATIONS FOR PROFESSIONAL LAND SURVEYORS NOVEMBER 25, 2015 AS FOLLOWS:

TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY
MEASUREMENT SPECIFICATION: CLASS 1 STANDARD

PURPOSE OF SURVEY: WETLANDS APPLICATION PLAN

BY: *Norbert A. Therien* DATE: 1/29/2021
NORBERT A. THERIEN, PLS NO. 1739

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 08 2021 FILE # 21-0013
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Julian P. Forgue

Application No. 21-0013

NO.	DATE	DESCRIPTION	BY

Environmental Management
FEB 01 2021
Office of Water Resources

JULIAN P. FORGUE
TOURTELLOT HILL ROAD
ASSESSORS PLAT 18 LOT 222
GLOUCESTER, RHODE ISLAND
ASSESSORS PLAT 22 LOT 26
SCITUATE, RHODE ISLAND

DRIVEWAY CROSSING PLAN

APPLICANT/OWNER:
JULIAN P. FORGUE
459 SNAKE HILL ROAD
N. SCITUATE, RI 02857
401-641-5455

DRAWN BY: W.C.R. CHECKED BY: N.A.T. FIELD BY: E.M.
12/18/20 JOB No. 2016-19 SHEET 2 OF 3

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

THE HAYBALE AND SILT FENCE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.

THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.

ALL CATCH BASINS SHALL BE PROTECTED WITH STAKED HAYBALES (R.I. STD. 9.8.0) DURING CONSTRUCTION ACTIVITIES. ALL PROPOSED STORMWATER DISCHARGE AREAS SHALL BE LINED WITH A RIPRAP SPLASH PAD AND PROTECTED WITH STAKED HAYBALE OUTLET PROTECTION (R.I. STD. 9.1.0), OR STAKED HAYBALE WITH SILT FENCE (R.I. STD. 9.3.0) SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS WHERE DISTRIBUTING PIPES, CATCH BASINS, AND MANHOLES ARE TO BE CLEANED AND FLUSHED.

ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND OF VEGETATION IS MAINTAINED.

ALL HAYBALES, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.

STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS OR WETLAND EDGES. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.

THE HAYBALES SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETRIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY HAYBALES AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH SEDIMENTS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.

ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", DATED 1993.

BMP MAINTENANCE SCHEDULE:

ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:

INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES (INCLUDING ROADWAY SIDE SLOPES, FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.

REPLANTING, REGRADING, OR OTHER REPAIRS NEEDED AS A RESULT OF SOIL EROSION AND SEDIMENTATION PROCESSES SHALL BE DONE PROMPTLY.

SITE PLAN NOTES:

DETAILED ENGINEERING REVIEW FOR PROPOSED UTILITIES COVERED UNDER SEPERATE SUBMISSION, TO GOVERNING AGENCIES. THE DETAILED ENGINEERING PLANS FOR UTILIES INSTALLATION AND CONNECTION HAVE NOT BEEN PROVIDED UNDER THIS SUBMISSION.

THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)

TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DIVIDES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.

THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS WILL NOT BE PARKED IN THE STATE RIGHT-OF-WAY.

ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. 1988 EDITION, INCLUDING REVISION 3, SEPTEMBER 3, 1993 AND SUBSEQUENT ADDENDA.

SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

ESTABLISHMENT OF VEGETATIVE COVER:

ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I. STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 202.

SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.

THE TOPSOIL 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 TO RHODE ISLAND STANDARD SPECIFICATION M.20.

THE SEED MIX TO BE USED ON SLOPE APPROACHING WETLAND SHALL BE THE NEW ENGLAND CONSERVATION/WILDLIFE MIX FROM NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL APPLIED AT A RATE OF 25 LBS. PER ACRE AND MULCHED WITH STRAW.

EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. LIME AND FERTILIZE AS REQUIRED BY SOIL TESTING TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS.

QPA NOTES:

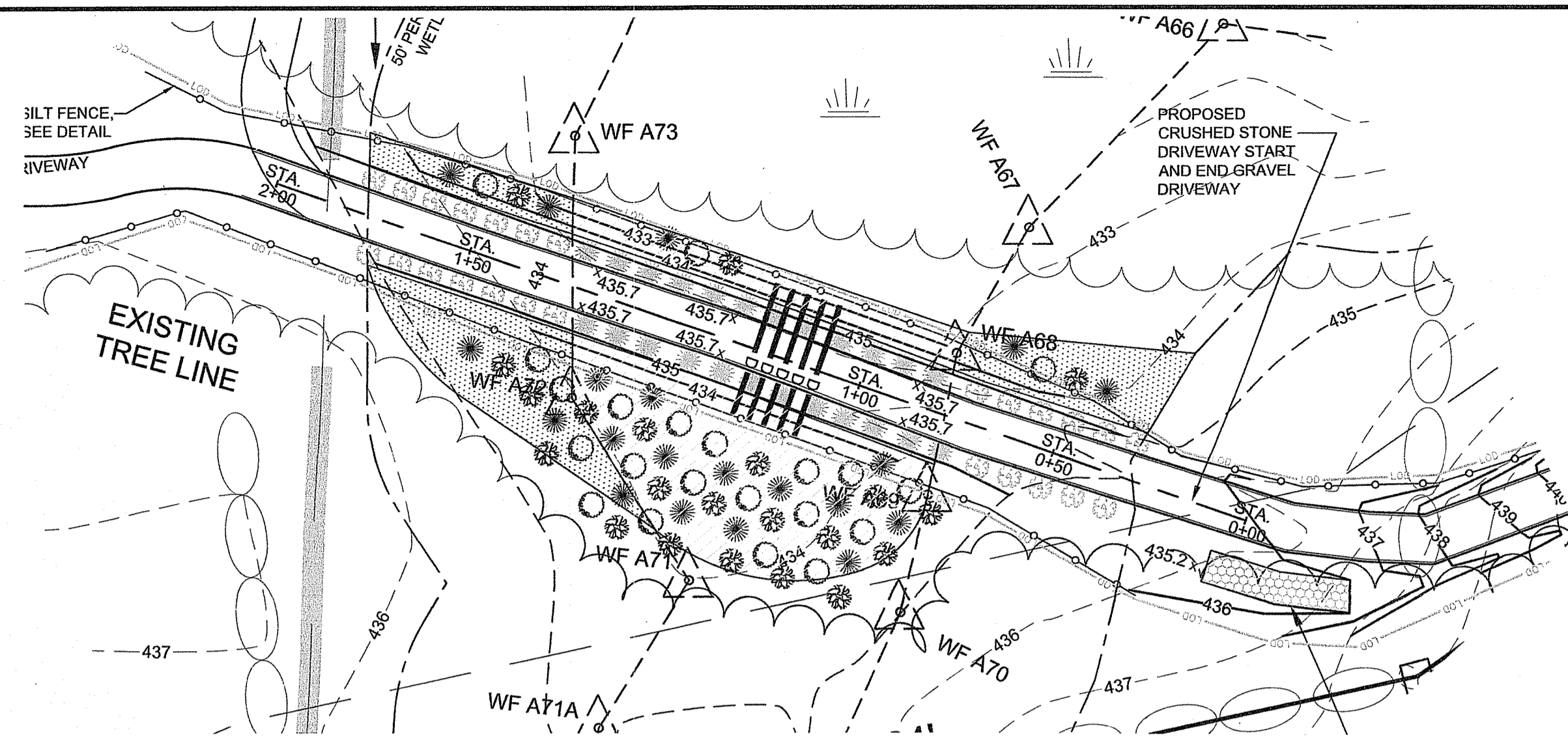
- CONSTRUCTION VEHICLES SHALL AVOID DRIVING OVER QPA AREAS TO THE MAXIMUM EXTENT POSSIBLE. IF QPA SOILS ARE COMPACTED, THEN THE SOIL MUST BE SUITABLE AMENDED, TILLED, AND RE-VEGETATED ONCE CONSTRUCTION IS COMPLETE TO RESTORE INFILTRATION CAPACITY.
- THE SLOPE OF THE QPA MUST BE LESS THAN OR EQUAL TO 5.0%
- THE QPA MUST BE INSPECTED YEARLY TO ENSURE NO BUILD-UP OF SEDIMENT. IF THERE IS ACCUMULATION OF SEDIMENT, THEN THE SEDIMENT SHALL BE REMOVED AND THE QPA SHALL BE RESTORED.

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATIONS FOR PROFESSIONAL LAND SURVEYORS NOVEMBER 25, 2015 AS FOLLOWS:

TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY
MEASUREMENT SPECIFICATION: CLASS 1 STANDARD

PURPOSE OF SURVEY: WETLANDS APPLICATION PLAN

BY: NORBERT A. THERIEN, PLS NO. 1739 DATE: _____



PLANTING LOCATION AND WETLAND RESTORATION PLAN

SCALE: 1"=30'

- REMOVE ALL FILL IN SWAMP (3,887 SQ. FT. ±)
SWAMP RESTORATION AREA NOTES: (3,887 SQ. FT. ±)
1. SEED ENTIRE AREA WITH NEW ENGLAND WETMIX
2. MULCH WITH LOOSE STRAW
3. ALLOW AREA TO REVEGETATE NATURALLY
- REMOVE ALL FILL IN 50' PERIMETER WETLAND (2,566 SQ. FT. ±)
PERIMETER WETLAND RESTORATION AREA NOTES: (2,566 SQ. FT. ±)
1. SEED ALL DISTURBED SOILS WITH A CONSERVATION GRASS MIXTURE
2. MULCH WITH LOOSE STRAW
3. ALLOW AREA TO REVEGETATE NATURALLY
- PLANTING NOTES:
1. INSTALL SHRUB PLANTINGS TO INCLUDE:
20-HIGH BUSH BLUEBERRY (VACCINIUM CORYMBOSUM)
20-SWEET PEPPERBUSH (CLETHRA ALNIFOLIA)
20-WHITE PINE (PINUS STROBUS)
2. ALL PLANTS SHOULD BE 2-3 FEET TALL AND SPACED 6 FEET ON CENTER
- 20-HIGH BUSH BLUEBERRY (VACCINIUM CORYMBOSUM) 20-SWEET
PEPPERBUSH (CLETHRA ALNIFOLIA)
20-WHITE PINE (PINUS STROBUS)
ALL PLANTS SHOULD BE 2-3 FEET TALL AND SPACED 6 FEET ON CENTER
- MOUNTAIN LAUREL (KALMIA LATIFOLIA)
3-4' TALL, SPACED 8' ON CENTER
- SHEEP LAUREL (KALMIA ANGUSTIFOLIA)
2-3' TALL, SPACED 8' ON CENTER
- EROSION CONTROL FENCE & LIMIT OF DISTURBANCE

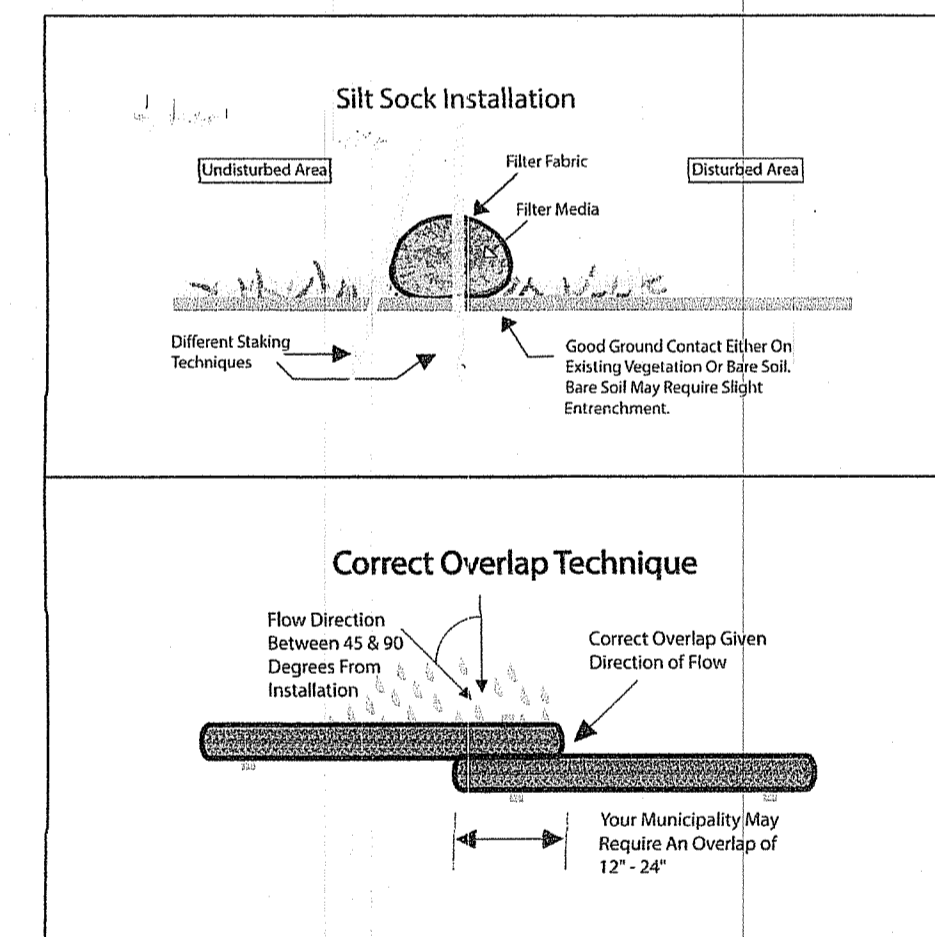
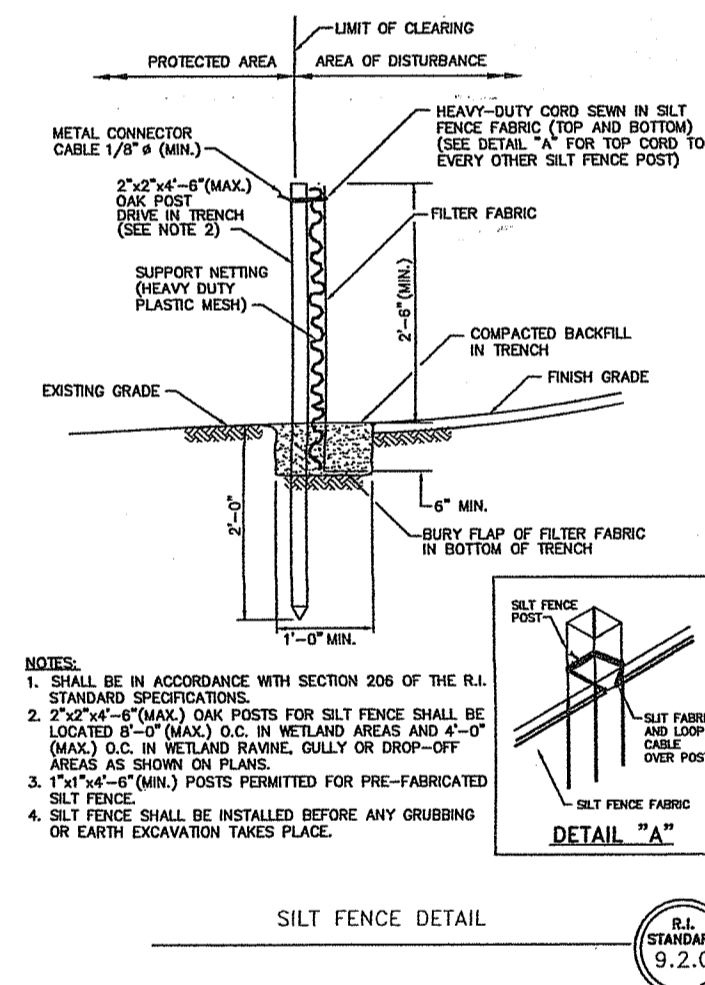
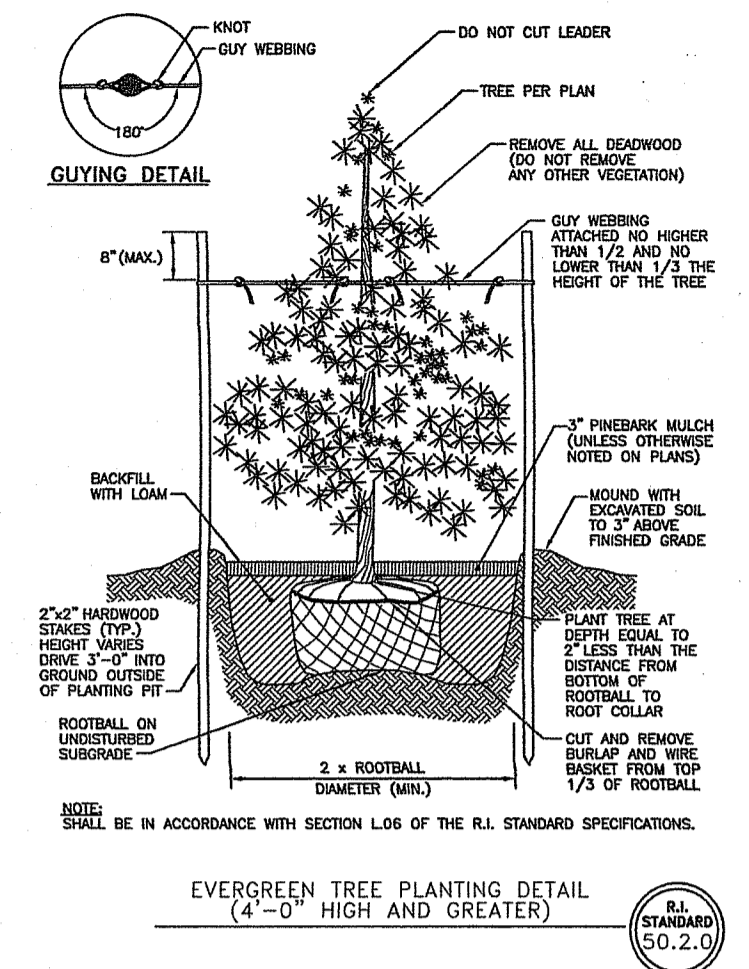


Table 2. Vegetated Swale, Typical Cross-Section

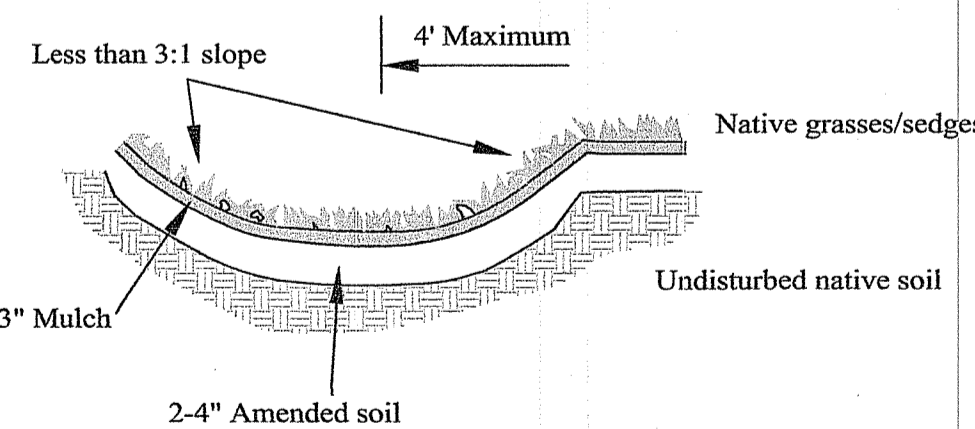
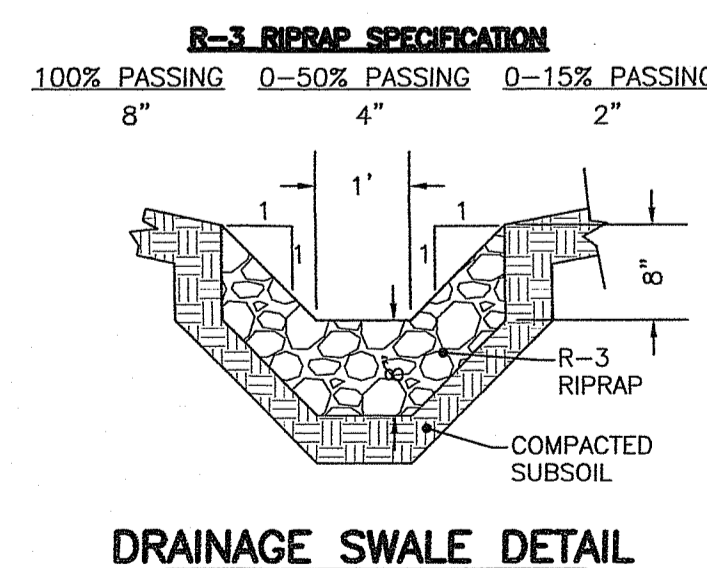


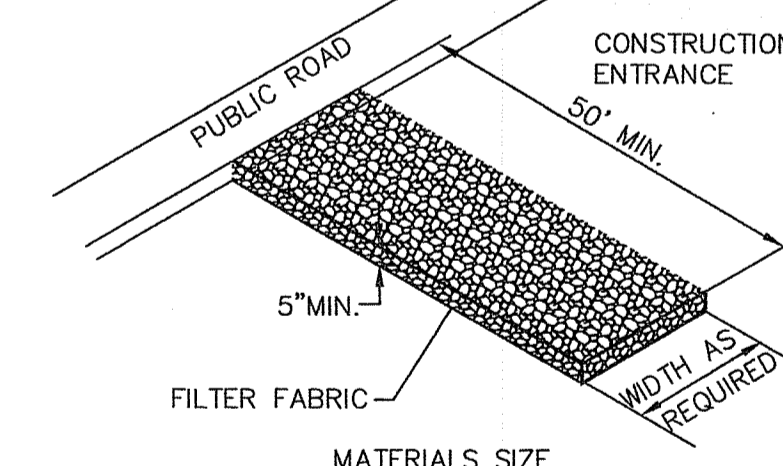
Table 5. Vegetated Swale Sizing Guidance

Drainage Area (in square feet)	Bottom surface Area (in square feet) for an 8 in. deep swale	
	Sandy Soils*	Silty Soils*
200	16	32
400	32	64
600	48	96
800	64	128
1000	80	160



DRAINAGE SWALE DETAIL

NOT TO SCALE



SQUARE MESH SIEVES	MATERIALS SIZE		ASTM NO. 2	ASTM C-33 NO. 3
	2" CRUSHED STONE OR GRAVEL	% FINER		
2-1/2 INCHES	100	90-100		
2 INCHES	95-100	35-70		90-100
1-1/2 INCHES	30-55	0-15		35-70
1-1/4 INCHES	0-25	-		-
1 INCH	0-5	-		0-15
3/4 INCH	-	0-5		-
1/2 INCH	-	-		-
3/8 INCH	-	-		-

NOTE: STABILIZATION PAD TO BE IN CONFORMANCE WITH STANDARDS SET FORTH IN THE "RHODE ISLAND GUIDELINES FOR SOIL & SEDIMENT CONTROL".

CONSTRUCTION ACCESS

SCALE: NOT TO SCALE

APPLICANT/OWNER:
JULIAN P. FORGUE
459 SNAKE HILL ROAD
N. SCITUATE, RI 02857
401-641-5455

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 08 2021 FILE # 21-0013
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NATIONAL
Surveyors-Developers
Inc.
42 Hamlet Ave., Woonsocket, R.I.
(401) 769-7779

GROUNDBREAKING DESIGNS, LLC
90 HIGHLAND AVE.
SOUTH KINGSTOWN, R.I.
(401) 622-2932

NORBERT A. THERIEN
No. 1739
REGISTERED PROFESSIONAL LAND SURVEYOR

DAVID KENNETH MANONI
REGISTERED PROFESSIONAL ENGINEER (Civil)
P.E. STAMP FOR OWTS AND DRAINAGE DESIGN ONLY

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATIONS FOR PROFESSIONAL LAND SURVEYORS NOVEMBER 25, 2015 AS FOLLOWS:

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MEASUREMENT SPECIFICATION: CLASS 1 STANDARD

PURPOSE OF SURVEY: WETLANDS APPLICATION PLAN

BY: NORBERT A. THERIEN, PLS NO. 1739 DATE: 1/29/2021

Application No. 21-0013

NO.	DATE	DESCRIPTION

Environmental Management
FEB 01 2021
Office of Water Resources

JULIAN P. FORGUE
ASSESSORS PLAT 18 LOT 222
TOURTELLOT HILL ROAD
GLOCESTER, RHODE ISLAND
ASSESSORS PLAT 22 LOT 26
SCITUATE, RHODE ISLAND

DETAILS PLAN

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: E.M.
12/18/20	JOB No. 2016-19	SHEET 3 OF 3