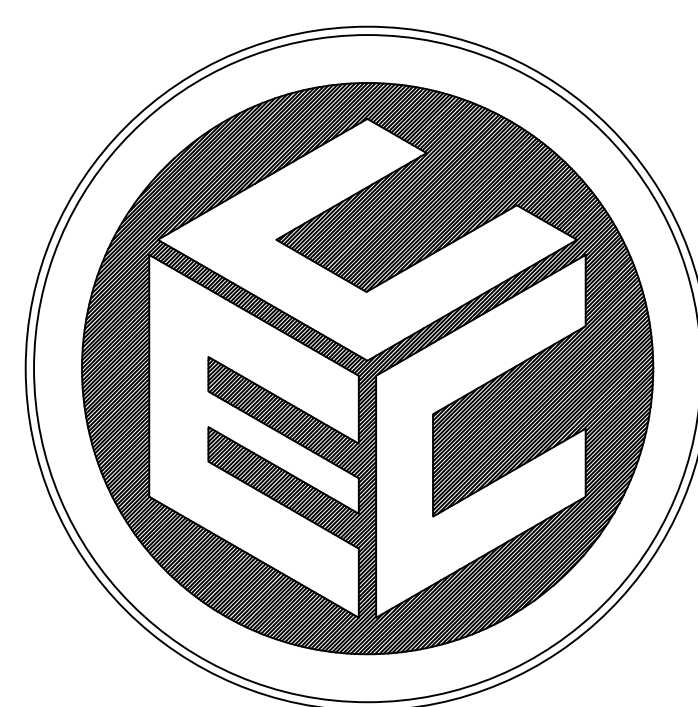


# FLEXIBLE DESIGN RESIDENTIAL PROJECT VILLAGE AT BROAD ROCK

for  
**PLAT 33, LOT 24**  
 ZONED R-40  
 in  
**SOUTH KINGSTOWN, RHODE ISLAND**

OWNER:  
 SHELEEN M CLARKE REV LIV TRUST AGMT  
 96 DUCK COVE ROAD  
 NORTH KINGSTOWN, RI 02852

APPLICANT:  
 NEW ENGLAND PROPERTIES, LLC  
 257 WICKFORD CT.  
 NORTH KINGSTOWN, RI 02852



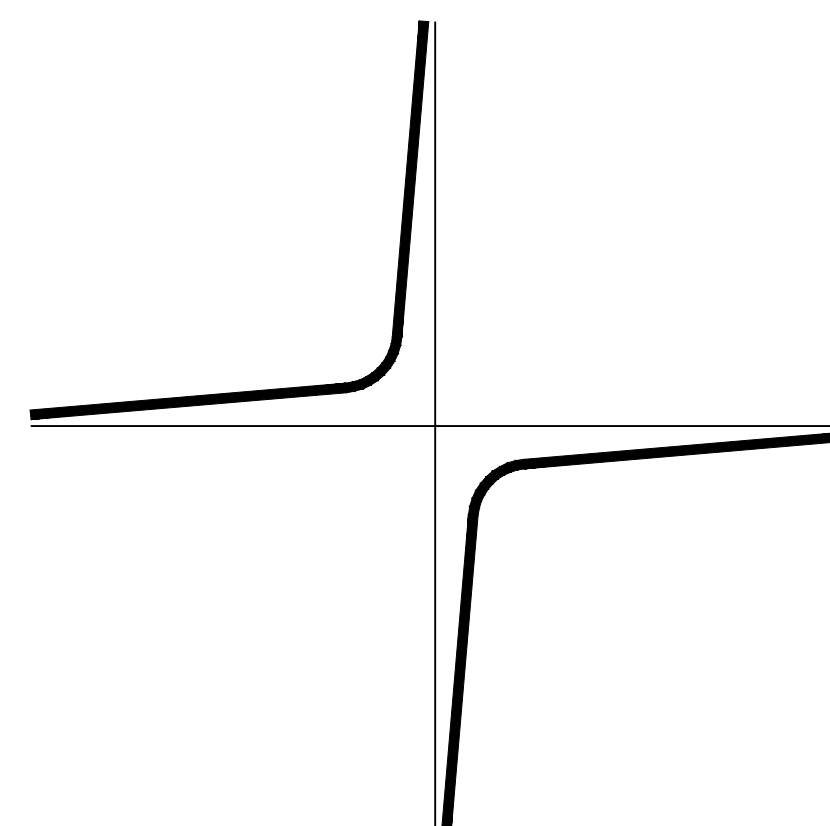
**COMMONWEALTH**  
 ENGINEERS & CONSULTANTS, INC.

400 SMITH STREET  
 PROVIDENCE, RHODE ISLAND 02908  
 401-273-6604

DRAWING ISSUE:

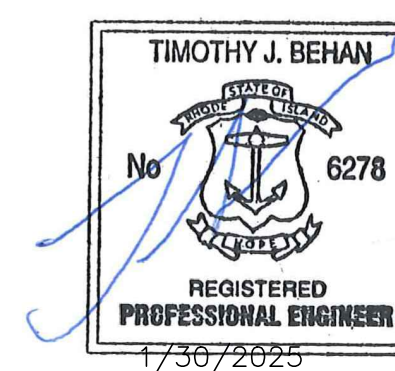
- CONCEPT
- CUSTOMER APPROVAL
- PERMITTING
- CONSTRUCTION
- AS-BUILT
- OTHER:

ONLY PLANS ISSUED FOR  
 CONSTRUCTION SHALL BE USED FOR  
 CONSTRUCTION



**JOHN C. CARTER & CO., INC.**  
 LANDSCAPE ARCHITECTURE

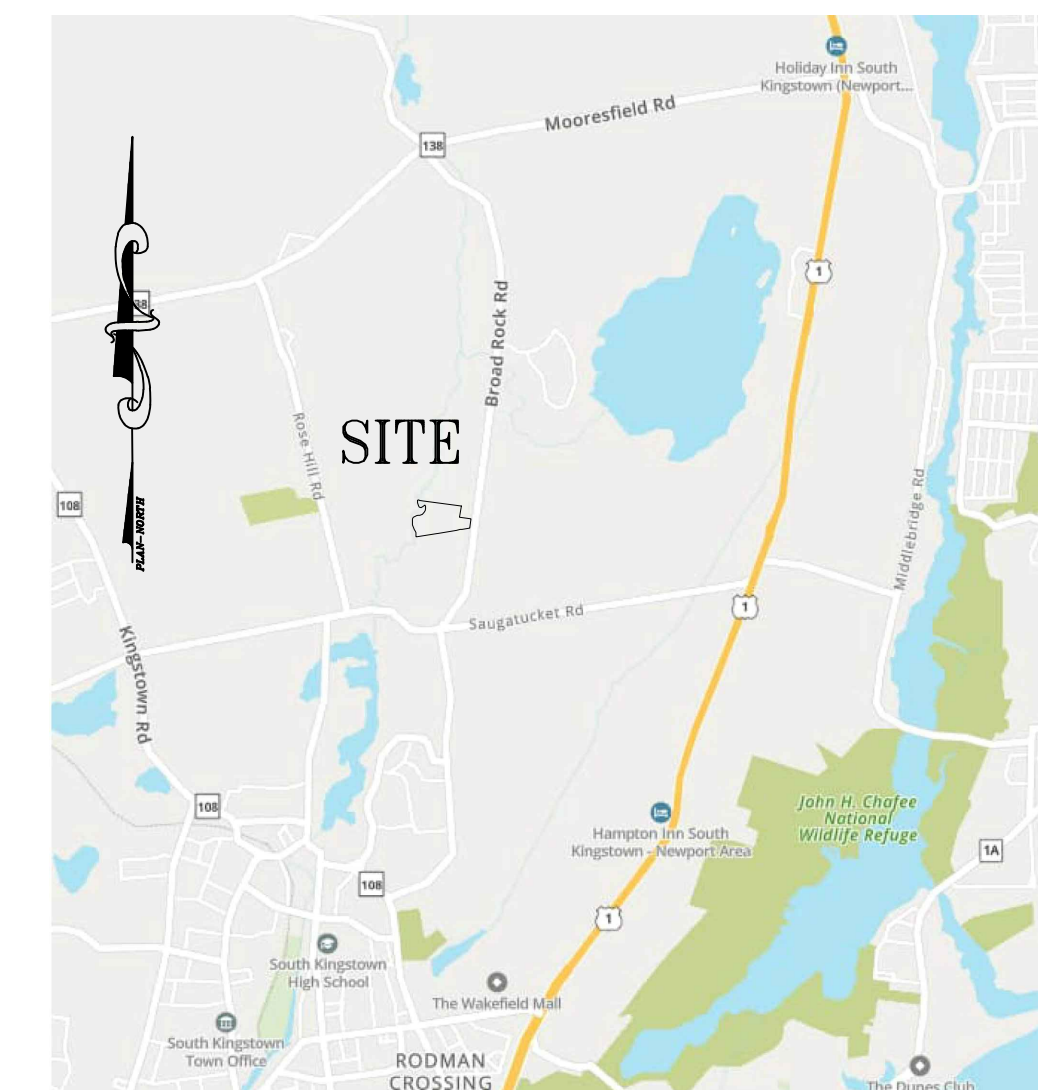
960 BOSTON NECK RD., NARRAGANSETT, RI  
 (401) 783 - 3500



STATE/FEDERAL PERMITS:

1. RIDEM FRESHWATER WETLANDS (PERMIT #24-0231)
2. RIDEM RIPDES (SOIL EROSION) (PERMIT #RIR102718)
3. RIDEM OWTS SUBDIVISION SUITABILITY
4. RIDEM OWTS INDIVIDUAL LOTS

**PERMIT AGENCY REVIEW SET**



**LOCUS MAP**  
 NOT TO SCALE

LIST OF DRAWINGS

1. TITLE SHEET
2. NOTES AND LEGEND PLAN
3. EXISTING CONDITIONS PLAN
4. PROPOSED LAYOUT PLAN
5. PROPOSED GRADING AND DRAINAGE PLAN
6. PROPOSED UTILITY PLAN
7. PROPOSED OWTS LOCATION PLAN
8. PROPOSED ROADWAY PROFILE PLAN
9. PROPOSED STONEWALL PLAN
10. SOIL EROSION AND SEDIMENT CONTROL PLAN
11. SOIL EROSION AND SEDIMENT CONTROL DETAILS
12. CONSTRUCTION DETAILS PLAN-1
13. CONSTRUCTION DETAILS PLAN-2
14. CONSTRUCTION DETAILS PLAN-3
15. CONSTRUCTION DETAILS PLAN-4
16. CONSTRUCTION DETAILS PLAN-5
17. PROPOSED RECORD PLAN
18. SURVEY PLAN, SHEET 1 OF 1
19. LANDSCAPE PLANS, 6 SHEETS

PROJECT DATA

ZONING TABLE:

ZONE:	R-40	R-10
A.P./LOT	33/24	10,000 SQ. FT.
LOT AREA	16.50 AC.	AREA
		FRONTAGE
		WIDTH
		BLDG. COVERAGE
		HEIGHT (PRINC.)
		HEIGHT (ACCESS.)
		FRONT YARD
		CORNER SIDE
		SIDE YARD
		REAR YARD
		ACCESS. BLDG. SIDE
		ACCESS. BLDG. REAR
		OWTS TO WETLAND

DENSITY CALCULATIONS:

YIELD PLAN= 13 LOTS

INCLUSIONARY INCENTIVE BONUS:

IN ACCORDANCE WITH RI GENERAL LAW §45-24-46.1.C,  
 FOR EACH INCLUSIONARY LOT PROVIDED, 2 MARKET  
 RATE LOTS SHALL BE PROVIDED AS A DENSITY  
 BONUS.

3 AFFORDABLE LOTS ARE PROVIDED; THEREFORE, 6  
 ADDITIONAL MARKET RATE LOTS ARE PROVIDED.

TOTAL LOTS = 13 + 6 = 19 LOTS

LOTS 6, 11 AND 18 SHALL BE AFFORDABLE HOUSING  
 LOTS

DATE OF PLAN SET: FEBRUARY 28, 2024

REVISIONS

	DATE	DRWN	CHKD
PLANNING DEPT. COMMENTS	4/2/2024	TB	TB
TRC COMMENTS	4/18/2024	TB	TB
SITE DESIGN	9/06/2024	SMA	TB
WATER SYSTEM DESIGN	9/30/2024	SMA	TB
RIDEM STORMWATER COMMENTS	10/21/2024	SMA	TB
FIRE MARSHALL COMMENTS	11/24/2024	SMA	TB
PLANNING COMMENTS	1/30/2025	TB	TB

PROJECT NO. 23011.00

**ABBREVIATIONS**

APPROX	APPROXIMATE
BIT	BITUMINOUS
BOT	BOTTOM
CB	CATCH BASIN
CEM	CEMENT
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE
CL##	PRESSURE RATING CLASS
CLDI	CEMENT-LINED DUCTILE IRON
CONC	CONCRETE
CY	CUBIC YARD
DMH	DRAIN MANHOLE
ELEV	ELEVATION
EX	EXISTING
ESHGWT	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
GWT	GROUNDWATER TABLE
GG	GAS GATE VALVE
HDPPE	HIGH-DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH
LOD	LIMIT OF DISTURBANCE
MAX	MAXIMUM
MIN	MINIMUM
PROP	PROPOSED
PVC	POLY-VINYL CHLORIDE
PSI	POUNDS PER SQUARE INCH (PRESSURE RATING)
R&D	REMOVE & DISPOSE
R&R	REMOVE & RESET
R&S	REMOVE & STOCKPILE (STORE)
RCP	REINFORCED CONCRETE PIPE
SCH	SCHEDULE (PIPES)
SDR	STANDARD DIMENSION RATIO
SED	SEDIMENT
SESC	SOIL EROSION & SEDIMENTATION CONTROL
SF	SQUARE FEET
SMH	SEWER MANHOLE
SY	SQUARE YARD
TEMP	TEMPORARY
TH	TEST HOLE
TYP	TYPICAL
VERT	VERTICAL
W	WIDTH
WQ	WATER QUALITY
YR	YEAR
'	FEET
"	INCHES
'/'	VERTICAL FEET/HORIZONTAL FOOT

**SITE NOTES:**

- EXISTING PARCEL (A.P. 33 LOT 24) CONSIST OF 16.50±ACRES THAT ARE ZONED R-40.
- WETLAND FLAGS DELINEATED BY AVIZINS ENVIRONMENTAL SERVICES, INC. 2022.
- OFF SITE BUILDING LOCATIONS ARE APPROXIMATE AND HAVE BEEN TAKEN FROM AERIAL PHOTOGRAPHY.
- ABUTTING PROPERTY OWNS' TAKEN FROM PLANS OF RECORD.
- ELEVATIONS BASED ON NAVD88 VERTICAL DATUM.
- A SMALL PORTION OF SUBJECT SITE IS SITUATED IN FEMA 100-YR FLOOD ZONE 'A' AS DEPICTED ON MAP 44009G0201J, EFFECTIVE 4/3/2020. THE REMAINING PORTION OF THE SITE IS SITUATED IN ZONE 'X' WHICH IS AREA OF MINIMAL FLOOD HAZARD.
- THERE ARE NO EXISTING, ACTIVE AREAS OF AGRICULTURAL USE.
- THE Bm<sub>a</sub> SOIL TYPE IS CONSIDERED A 'PRIME AGRICULTURAL SOIL'.
- SUBJECT SITE LIES IN THE 'SAUGATUCKET RIVER' SUB WATERSHED. THERE ARE NO BOUNDARY LINE IN SUBJECT SITE OR IN THE IMMEDIATE AREA.
- THERE ARE NO KNOWN ROCK OUTCROPPINGS, CLIFFS OR COASTAL FEATURES ON SUBJECT SITE.
- THERE ARE NO KNOWN STREETS, DRIVEWAYS, FARM ROADS, WOOD ROADS AND/OR TRAILS THAT HAVE BEEN IN PUBLIC USE.
- THERE ARE NO KNOWN CEMETERIES ON OR IMMEDIATELY ADJACENT TO SUBJECT PROPERTY.
- THERE ARE NO KNOWN UNIQUE NATURAL FEATURES ON SUBJECT SITE.
- SUBJECT SITE IS SITUATED IN A NATURAL HERITAGE AREA AND TMDL WATERSHED AND IS NOT SITUATED IN A SAMP PLAN AREA, S.K. GROUND WATER PROTECTION OVERLAY DISTRICT, RIDEM OWNS CRITICAL RESOURCE AREA, AND DRINKING WATER SUPPLY WATERSHED.
- SUBJECT PARCEL AND STRUCTURES IS NOT LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES.
- THIS IS NOT A SURVEY BOUNDARY PLAN, REFER TO SURVEY PLAN AT THE REAR OF THE PLAN SET. SURVEY INFORMATION PROVIDED BY COMMONWEALTH LAND SURVEYORS, INC.

**GENERAL NOTES:**

- THESE PLANS HAVE BEEN ISSUED FOR LOCAL AND/OR STATE AGENCY REVIEW. ONLY PLANS STAMPED 'ISSUED FOR CONSTRUCTION' AFTER RECEIPT OF ALL LOCAL AND STATE APPROVALS SHALL BE USED FOR CONSTRUCTION.
- SPECIFICATIONS & DETAILS GOVERNING THIS PROJECT ARE THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, AUGUST 2023 EDITION & TOWN OF SOUTH KINGSTOWN SUBDIVISION & LAND DEVELOPMENT STANDARDS. THE TOWN'S STANDARDS SHALL OVERRIDE RIDOT STANDARDS OUTSIDE OF STATE R.O.W.'S.
- THE CONTRACTOR SHALL READ AND FAMILIARIZE ITSELF WITH THE TOWN'S SUBDIVISION & LAND DEVELOPMENT REGULATIONS (AS THEY PERTAIN TO CONSTRUCTION) PRIOR TO CONSTRUCTION.
- ANY REQUIRED AUTHORIZATION/PERMITS TO PERFORM WORK NOT PREVIOUSLY SECURED & PROVIDED BY THE OWNER SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION; THE CONTRACTOR SHALL ADHERE TO THE TERMS, CONDITIONS AND REQUIREMENTS OF ALL STATE & LOCAL PERMITS ISSUED FOR THE PROJECT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY CONSTRUCTION OPERATIONS, INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL ASPECTS OF ON-SITE SAFETY, INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
- ALL ELEVATIONS ON SUBJECT PROPERTY ARE BASED ON NAVD88 DATUM, AND HAVE A POTENTIAL VERTICAL VARIANCE OF 1± FEET.
- NO EXISTING DRAINAGE STRUCTURE OR FACILITY SHALL BE ALTERED OR DISTURBED UNLESS SPECIFICALLY INDICATED ON THESE DRAWINGS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR.
- ALL DISTURBED AREAS/STRUCTURES SHALL BE REPLACED IN-KIND, UNLESS OTHERWISE SHOWN OR AUTHORIZED BY THE TOWN.
- THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS, AND SHALL INSPECT THE SITE, ANY CHANGES TO THE PROJECT, OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED, SHALL BE REVIEWED BY, AND MUST BE ACCEPTABLE TO, THE ENGINEER.
- THE ABSENCE OF PARTICULAR DETAILS OR SPECIFICATIONS FOR WORK CALLED FOR ON THE PLANS SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE PROPOSED WORK.
- ALL CONSTRUCTION IS SUBJECT TO THE INSPECTION OF AND APPROVAL BY THE TOWN. PROPER NOTIFICATION SHALL BE GIVEN PRIOR TO THE COMMENCEMENT OF ANY WORK, AND NO WORK SHALL PROCEED WITHOUT THE AUTHORIZATION OF THE TOWN.
- PRIOR TO THE START OF CONSTRUCTION, THE APPROVED LIMIT OF DISTURBANCE SHALL BE LOCATED AND FIELD-DELIMITED BY A R.I. PLS; NO CLEARING OR DISTURBANCE SHALL TAKE PLACE OUTSIDE THE ESTABLISHED LIMIT AT ANY POINT DURING CONSTRUCTION, UNLESS EXPLICITLY AUTHORIZED BY THE TOWN.
- PRIOR TO THE START OF EARTH-DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL SEDIMENT & SOIL EROSION CONTROL (SESC) DEVICES IN ACCORDANCE WITH RIDEM & TOWN STANDARDS.
- THE LOCATION, SIZE AND SHAPE OF BUILDINGS AND DRIVEWAYS ARE DEPICTED TO DEMONSTRATE CONFORMANCE WITH VARIOUS STATE AND LOCAL SITE REQUIREMENTS FOR PERMITTING PURPOSES. THESE MAY VARY ACCORDING TO OWNER PREFERENCES AND PERMITTING APPROVALS, EXCEPT THAT UNDER NO CIRCUMSTANCES SHALL ANY BUILDINGS BE ALLOWED BEYOND THE LIMITS OF DISTURBANCE OR THE BUILDING SETBACK LINES SHOWN ON THESE PLANS.
- COMMUNICATION LINES (ELECTRIC, TELEPHONE, AND CABLE TV) SHALL BE INSTALLED UNDERGROUND, UNLESS OVERHEAD SERVICE IS APPROVED BY THE TOWN.
- ALL ROOT SYSTEMS, TREES, STUMPS, BUSHES, BOULDERS, EXISTING CONCRETE FOUNDATIONS AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED AND TRANSPORTED AWAY FROM THE PROJECT SITE TO A LEGAL DISPOSAL LOCATION, UNLESS ON-SITE DISPOSAL AT AN APPROPRIATE LOCATION (OR LOCATIONS) IS APPROVED BY THE TOWN.

**EXISTING CONDITIONS/UTILITIES NOTES:**

- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES, BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH 'DIG SAFE'.
- NO DRAINAGE STRUCTURE OR FACILITY SHALL BE DISTURBED WITHOUT PROPER PERMITS UNLESS SPECIFICALLY INDICATED ON THESE DRAWINGS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL EXISTING UTILITIES HAVE BEEN PLOTTED BASED UPON THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION AND REPRESENT APPROXIMATE LOCATIONS. SOME OBSTRUCTIONS, OBSTACLES, OR DIFFICULTIES IN THE PATH OF THE WORK, EITHER ANTICIPATED OR DISCOVERED IN THE PERFORMANCE OF THE WORK, MAY NOT HAVE BEEN INDICATED BY DRAWINGS. THE CONTRACTOR SHALL BE UNDERSTOOD TO HAVE ENTERED INTO THE CONTRACT WITH FULL KNOWLEDGE THAT IN ANY WORK INVOLVED IN CONSTRUCTION OPERATIONS IN PUBLIC HIGHWAYS OR ADJACENT TO OTHER DEVELOPMENTS, SOME UNFORESEEN OBSTACLES, DIFFICULTIES, SOIL OR GROUND WATER CONDITIONS, ETC., MAY BE ENCOUNTERED, AND THAT THE CONTRACTOR HAS INCLUDED IN HIS BID AND CONTRACT OBLIGATIONS THE ASSUMPTIONS OF THE RISKS AND COSTS TO WHICH SUCH OBSTACLES, ETC. MAY SUBJECT HIM/HER.
- THE LOCATION OF EXISTING UNDERGROUND PIPES, CONDUITS, AND STRUCTURES AS SHOWN HAS BEEN COLLECTED FROM THE BEST AVAILABLE SOURCES, AND THE OWNER, TOGETHER WITH HIS AGENTS, DOES NOT IMPLY OR GUARANTEE THE DATA AND INFORMATION IN CONNECTION WITH UNDERGROUND PIPES, CONDUITS, STRUCTURES, AND SUCH OTHER PARTS, AS TO THEIR COMPLETENESS, NOR THEIR LOCATIONS AS INDICATED. THE CONTRACTOR SHALL ASSUME THAT THERE ARE EXISTING WATER, GAS AND OTHER UTILITY CONNECTIONS IN ROUTE, WHETHER THEY APPEAR ON THE DRAWINGS OR NOT. ANY EXPENSE AND/OR DELAY OCCASIONED BY UTILITIES AND STRUCTURES OR DAMAGE THERETO, INCLUDING THOSE NOT SHOWN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- BEFORE PROCEEDING WITH CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL MAKE SUCH SUPPLEMENTAL INVESTIGATIONS, INCLUDING EXPLORATORY EXCAVATIONS BY HAND DIGGING, AS THEY DEEM NECESSARY TO UNCOVER AND DETERMINE THE EXACT LOCATIONS OF UTILITIES AND STRUCTURES OR DAMAGE THERETO, INCLUDING THOSE NOT SHOWN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL ENGAGE A R.I. PROFESSIONAL LAND SURVEYOR TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING AND PROPOSED UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEM FOUND WHICH DOES NOT MATCH THE PLANS WILL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW.
- ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER/STATE/CITY.
- WHENEVER IT MAY BE NECESSARY TO CROSS OR INTERFERE WITH EXISTING CULVERTS, DRAINS, SEWERS, WATER PIPES, FIXTURES, GUARDRAILS, FENCES, GAS PIPES, OR OTHER STRUCTURES NEEDING SPECIAL CARE, DUE NOTICE SHALL BE GIVEN TO THE OWNER. WHENEVER REQUIRED, ALL OBJECTS SHALL BE STRENGTHENED TO MEET ANY ADDITIONAL STRESS THAT THE WORK HEREIN SPECIFIED MAY IMPOSE UPON IT, AND ANY DAMAGE CAUSED SHALL BE THOROUGHLY REPAIRED. THE ENTIRE WORK SHALL BE PERFORMED AT NO EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BROKEN MAINS OR UTILITIES ENCOUNTERED DURING THE PROGRESS OF THE WORK AND SHALL REPAIR AND BE RESPONSIBLE FOR CORRECTING ALL DAMAGES TO EXISTING UTILITIES, STRUCTURES AND PERSONAL PROPERTY WHICH MAY HAVE BEEN CAUSED BY BROKEN LINES AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL CONTACT THE PROPER UTILITY OR AUTHORITY TO CORRECT OR MAKE ANY CHANGES DUE TO UTILITIES OR OTHER OBSTRUCTIONS DURING CONSTRUCTION, BUT THE ENTIRE RESPONSIBILITY AND EXPENSE SHALL BE WITH THE CONTRACTOR. ALL DAMAGED ITEMS OF WORK OR ITEMS REQUIRED TO BE REMOVED AND REPLACED DUE TO CONSTRUCTION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER, AND AT NO ADDITIONAL EXPENSE TO THE OWNER.

**GROUNDWATER REMOVAL & PROTECTION FROM FLOODING:**

- SOME EXCAVATIONS FOR PIPELINES, STRUCTURES, AND APPURTENANT WORK REQUIRED MAY OCCUR BELOW EXISTING GROUNDWATER LEVELS.
- THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL PUMPS, DRAINS, WELL POINTS AND/OR ANY OTHER FACILITIES FOR THE CONTROL, COLLECTION, AND DISPOSAL OF GROUNDWATER OR SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK, AND SHALL PROVIDE ALL PUMPS, PIPING, AND DITCHING FOR THE REMOVAL OF WATER FROM THE TRENCHES AND EXCAVATIONS SO THAT ALL TRENCHES AND EXCAVATIONS MAY BE KEPT FREE FROM WATER AT ALL TIMES, AND SO THAT THE WORK MAY BE PERFORMED IN THE DRY.
- DEWATERING OF EXCAVATIONS SHALL BE ACCOMPLISHED BY METHODS THAT HAVE BEEN APPROVED PRIOR TO COMMENCEMENT OF WORK BY THE ENGINEER, AND WHICH HAVE A BACKGROUND OF SUCCESSFUL DEWATERING OF EXCAVATIONS OF THE TYPE TO BE EMPLOYED FOR THE WORK.
- PUMPING SHALL BE CONTINUOUS WHERE DIRECTED AND/OR AS NECESSARY TO PROTECT THE WORK, AND TO MAINTAIN SATISFACTORY PROGRESS OF SAME.
- THE CONTRACTOR'S DEWATERING AND PUMPING OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT NO LOSS OF GROUND WILL RESULT FROM THESE OPERATIONS. ANY DAMAGE TO EXISTING FEATURES OR TO THE CONTRACT WORK RESULTING FROM THE CONTRACTOR'S DEWATERING OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR, AS DIRECTED BY THE OWNER, AT NO ADDITIONAL EXPENSE TO THE OWNER. PRECAUTIONS SHALL BE TAKEN TO PROTECT NEW AND EXISTING WORK FROM FLOODING OR DAMAGE DURING STORMS OR OTHER CAUSES.
- ALL PIPELINES OR STRUCTURES NOT STABLE AGAINST UPLIFT DURING CONSTRUCTION OR PRIOR TO COMPLETION SHALL BE THOROUGHLY BRACED OR OTHERWISE PROTECTED.
- WATER FROM THE TRENCHES, EXCAVATIONS, AND DRAINAGE OPERATIONS SHALL BE DISPOSED OF IN SUCH A MANNER AS WILL CAUSE NEITHER INJURY TO PUBLIC HEALTH OR PRIVATE PROPERTY, NOR DAMAGE TO THE WORK COMPLETED OR IN PROGRESS. THE CONTRACTOR SHALL CONSTRUCT DITCHES, ESTABLISH GRADING, AND PERFORM ANY AND ALL OTHER WORK AS MAY BE NECESSARY TO DIVERT AND PREVENT SURFACE WATER AND WATER FROM DEWATERING OPERATIONS FROM ENTERING EXCAVATION AND WORK AREAS.

**SUBSURFACE CONDITIONS NOTES:**

- ALL SOIL AND TEST HOLE DATA, WATER TABLE ELEVATIONS, AND SOIL ANALYSIS SHOWN/REFERENCED ON THE DRAWINGS OR INCLUDED IN THE SPECIFICATIONS APPLY ONLY AT THE LOCATION OF THE TEST HOLES AND TO THE DEPTHS INDICATED. SOIL TEST REPORTS ARE AVAILABLE FOR INSPECTION AT THE OFFICE OF THE DESIGN ENGINEER. ANY ADDITIONAL SUBSURFACE EXPLORATION SHALL BE DONE BY THE CONTRACTOR AT THEIR OWN EXPENSE. IT IS UNDERSTOOD THAT THE MAKING OF THE DEDUCTIONS, INTERPRETATIONS AND CONCLUSIONS FROM ALL THE ACCESSIBLE FACTUAL INFORMATION, INCLUDING THE NATURE OF THE MATERIALS TO BE EXCAVATED, THE DIFFICULTIES OF MAKING AND MAINTAINING THE REQUIRED EXCAVATIONS, AND THE DIFFICULTIES OF DOING OTHER WORK AFFECTED BY THE GEOLOGY AND OTHER SUBSURFACE CONDITIONS AT THE SITE OF THE WORK, ARE THE CONTRACTOR'S SOLE RESPONSIBILITY.
- THE INDICATED ELEVATION OF THE WATER TABLE IS THAT EXISTING AT THE DATE THE TEST HOLE DATA WAS DETERMINED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND ALLOW FOR THE ELEVATION OF GROUNDWATER AT THE DATE OF PROJECT CONSTRUCTION. A DIFFERENCE IN ELEVATION BETWEEN GROUNDWATER SHOWN IN SOIL LOGS AND GROUNDWATER ACTUALLY ENCOUNTERED DURING CONSTRUCTION WILL NOT BE CONSIDERED AS A BASIS FOR EXTRA WORK.
- ESTIMATED SEASONAL HIGH WATER TABLES ARE FOR CONSTRUCTION OF ON-SITE WASTEWATER TREATMENT SYSTEMS ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. ESTIMATED SEASONAL HIGH WATER TABLES WILL BE EXCEEDED FREQUENTLY.

**CONSTRUCTION NOTES:**

- DEVELOPER SHALL RETAIN THE SERVICES OF A RHODE ISLAND PROFESSIONAL ENGINEER TO REVIEW AND APPROVE SHOP DRAWINGS, SAMPLES, AND OTHER SUBMITTALS OF THE CONTRACTOR FOR CONFORMANCE WITH THE DESIGN CONCEPT (THIS PLAN SET) AND CITY REGULATIONS, WHICH INCLUDE (BUT ARE NOT LIMITED TO) THE FOLLOWING:
  - DRAINAGE SYSTEM SHOP DRAWINGS/SKETCHES FOR PIPE, PIPE JOINTS, PIPE BEDDING/BACKFILL MATERIALS (SEVE ANALYSIS, ETC.), COMPACTION METHODS, MANHOLE STRUCTURES, FRAME & COVERS, FRAME & GRATES, FRAME & COVER ADJUSTMENT METHODS TO FINISH GRADE, PROPOSED RIM ELEVATIONS, PIPE INVERTS AND PIPE DIAMETERS. ANY SUBSTANTIAL CHANGES TO THE DESIGN CONCEPT SHALL BE BROUGHT TO THE CITY'S ATTENTION.
  - ROADWAY CONSTRUCTION SHOP DRAWINGS/SKETCHES FOR GRAVEL BASE MATERIALS, BITUMINOUS CONCRETE COURSES, SIGNAGE/STRIPING, UNDERDRAINS, GUARDRAILS, RETAINING WALLS AND CURBING/BERMS.
  - SOIL EROSION CONTROL AND DEWATERING METHODS.
  - COMPACTION METHODS FOR INSTALLING PIPE/MANHOLES, GRAVEL ROAD BASE AND BITUMINOUS CONCRETE COURSES.
  - TESTING METHODS AND TESTING FREQUENCY FOR DRAINAGE AND ROAD SYSTEMS. TESTING FREQUENCY SHALL BE IN ACCORDANCE WITH RIDOT AND TYPICAL ENGINEERING STANDARDS.
- THE SHOP DRAWING SUBMITTAL PACKAGE SHALL BE STAMPED BY A RHODE ISLAND PROFESSIONAL ENGINEER AND SUBMITTED TO THE TOWN/TOWN ENGINEER FOR REVIEW AND APPROVAL. SHOP DRAWING RECORDS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT, INCLUDING THE WARRANTY PERIOD.
- MARKED-UP CONSTRUCTION DRAWINGS SHALL BE MAINTAINED AND KEPT AT THE JOB SITE FOR THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL PREPARE AND SUBMIT AS-BUILT DRAWINGS IN ACCORDANCE WITH TOWN REGULATIONS AND VEOLIA WATER RHODE ISLAND INC.(VEOLIA). AS-BUILT DRAWING SHALL COMPLY WITH VEOLIA RULES AND REGULATIONS. AS-BUILT SHALL BE STAMPED BY A R.I. PROFESSIONAL LAND SURVEYOR AND R.I. PROFESSIONAL ENGINEER.
- PRIOR TO ACCEPTANCE OF INFRASTRUCTURE, A R.I. P.E. SHALL CERTIFY THE INFRASTRUCTURE WAS INSTALLED IN ACCORDANCE WITH THE DESIGN INTENT AND MEETS RIDOT/TOWN STANDARDS & PERMIT STIPULATIONS, AND IS READY FOR USE. AS-BUILT DRAWING SHALL COMPLY WITH VEOLIA RULES AND REGULATIONS AND BE ACCEPTED AND APPROVED BY VEOLIA.

**EARTHWORK NOTES:**

- THE CONTRACTOR SHALL CONTACT 'DIGSAFE' AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
- SPECIFICATIONS & DETAILS TO GOVERN THIS PROJECT ARE THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION – AUGUST 2023 EDITION (INCLUDING ALL SUBSEQUENT ADDENDA) AS WELL AS TOWN STANDARDS; WHERE APPLICABLE, THE TOWN'S STANDARDS SHALL OVERRIDE RIDOT STANDARDS.
- RIDOT STANDARDS ARE AVAILABLE FOR DOWNLOAD FROM THE RIDOT WEBSITE UNDER 'STANDARDS AND SPECIFICATIONS' (WWW.DOT.STATE.RI.US/ENGINEERING/STANDARDS/INDEX.ASP).
- EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND GRASS SEED UNLESS OTHERWISE NOTED.
- ALL EXCAVATION AND PLACEMENT OF FILL SHALL BE IN ACCORDANCE WITH R.I.D.O.T. STANDARD SPECIFICATIONS SECTION 202 AND TOWN SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. ALL MATERIALS AND METHODS SHALL BE PERFORMED IN ACCORDANCE WITH THESE STANDARDS AND SPECIFICATIONS. ALL FILL BENEATH PAVEMENTS SHALL BE GRAVEL AS DEFINED IN THE RIDOT SPECIFICATIONS.
- ALL AREAS COMPACTED BY CONSTRUCTION ACTIVITIES (OTHER THAN ROADWAYS AND BENEATH STRUCTURES) SHALL BE RESTORED TO PROMOTE INFILTRATION BY TILLING THE TOP 12 INCHES OF SOIL PRIOR TO FINAL STABILIZATION.
- ALL UNSUITABLE MATERIAL (LOAM, SUBSOIL, ROOTS, TREE TRUNKS, CLAY, SILT, ORGANIC MATTER, LARGE STONES, ETC.) SHALL BE REMOVED FROM THE ROADWAY SUBGRADE AND EMBANKMENT AREAS PRIOR TO THE PLACEMENT OF THE GRAVEL SUBBASE/BERM MATERIAL AS DIRECTED AND APPROVED.
- SUITABLE SURPLUS MATERIAL GENERATED BY EXCAVATIONS WITHIN THE PROJECT AREA (SAND, GRAVEL, LOAM, ETC.) SHALL BE RE-USED, TO THE EXTENT POSSIBLE, IN OTHER LOCATIONS WITHIN THE PROJECT AREA; MINING OF SITE MATERIALS (I.E. REMOVAL OF SUITABLE IN-SITU MATERIALS FROM THE SITE AND REPLACEMENT WITH IMPORTED BORROW MATERIALS) SHALL NOT BE PERMITTED.

**MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC DURING CONSTRUCTION, INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE MAY 2012 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL SUBSEQUENT REVISIONS.
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES 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 STREET RIGHT-OF-WAYS.
- SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH R.I.D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

**DRAWING ISSUE:**

- CONCEPT
- CUSTOMER APPROVAL
- PERMITTING
- CONSTRUCTION
- AS-BUILT
- OTHER:

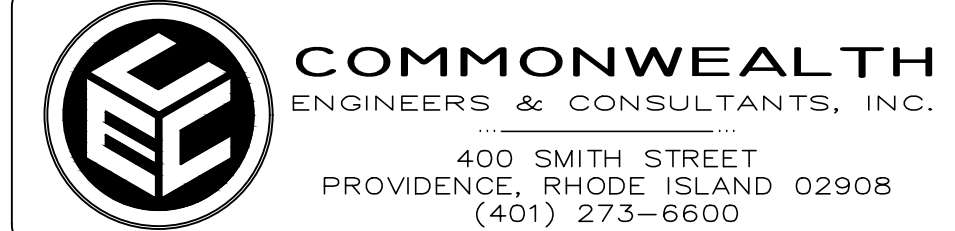
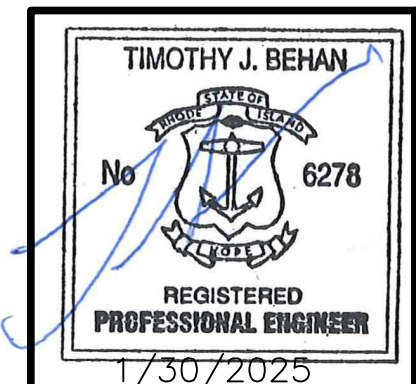
ONLY PLANS ISSUED FOR CONSTRUCTION SHALL BE USED FOR CONSTRUCTION

**OWNER:**  
SHELEEN CLARKE  
96 DUCK COVE ROAD  
NORTH KINGSTOWN, RI 02852

**APPLICANT:**  
NEW ENGLAND PROPERTIES, LLC  
257 WICKFORD CT.  
NORTH KINGSTOWN, RI 02852

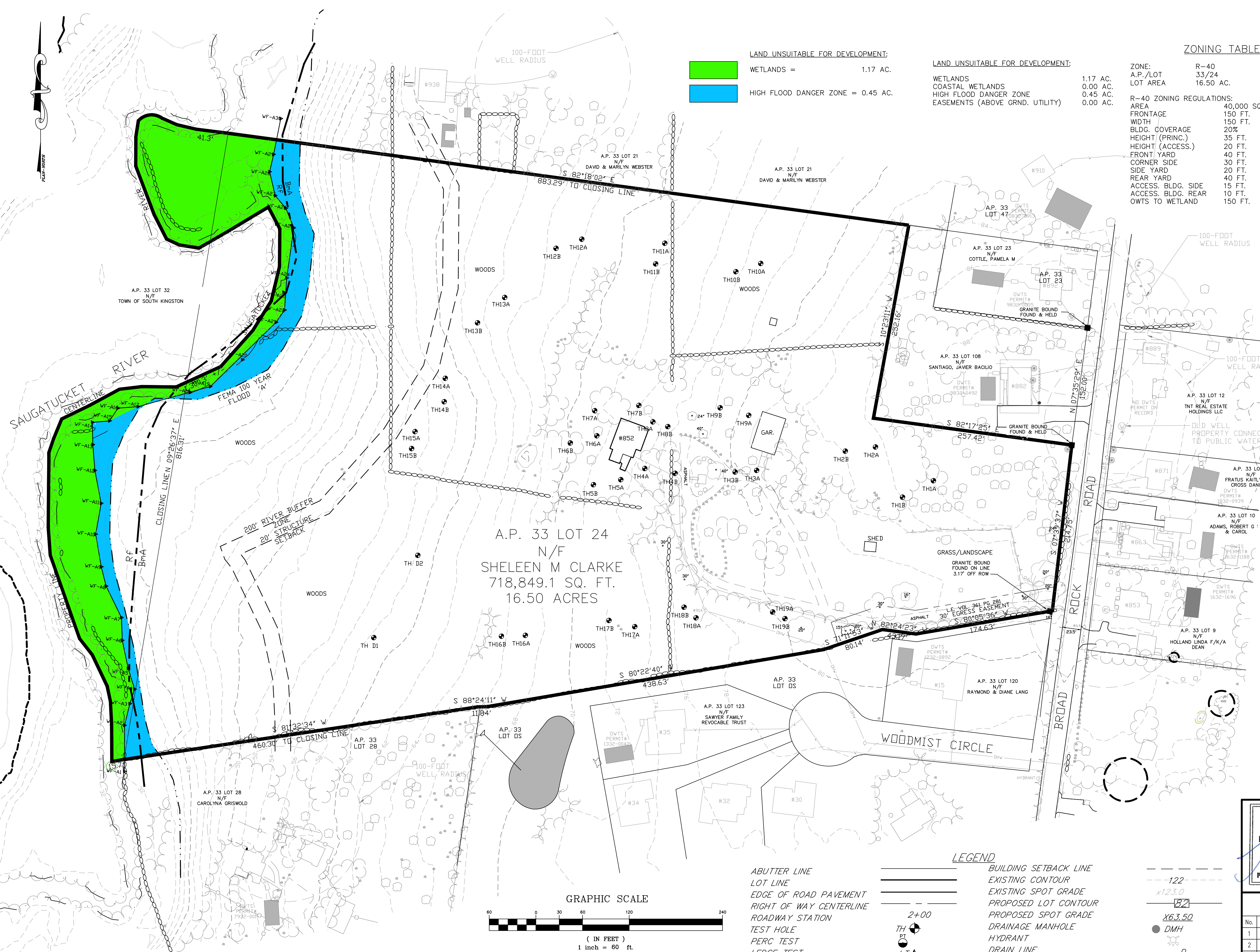
**LEGEND**

ABUTTER LINE	=====	BUILDING SETBACK LINE	-----
LOT LINE	=====	EXISTING CONTOUR	-----
EDGE OF ROAD PAVEMENT	=====	EXISTING SPOT GRADE	-----
RIGHT OF WAY CENTERLINE	-----	PROPOSED LOT CONTOUR	-----
ROADWAY STATION	2+00	PROPOSED SPOT GRADE	-----
TEST HOLE	TH	DRAINAGE MANHOLE	● DMH
PERC TEST	PT	HYDRANT	⊗
LEDGE TEST	LT	DRAIN LINE	— D —
UTILITY POLE	○	WATERLINE	— W —
WETLAND EDGE	WF-A6 WF-A7	OVERHEAD WIRES	— OHW —
200' RIVER BUFFER ZONE	-----	UNDERGROUND ELECTRIC/TELE.	— E —
20' STRUCTURE SETBACK	-----	SOIL BOUNDARY LINE	-----
EXISTING STONEWALL	=====	FEMA 100-YR FLOOD ZONE	-----
UNDERGROUND TELE/COMM	-----	CURB STOP	-----
		WATER VALVE	⊗
		PROPOSED STONE WALL	-----



**PERMIT AGENCY REVIEW PLAN**  
FOR  
**VILLAGE AT BROAD ROCK**  
PLAT 33, LOT 24  
ON  
**BROAD ROCK ROAD**  
SOUTH KINGSTOWN, RHODE ISLAND  
**NOTES AND LEGEND PLAN**

SCALE: AS SHOWN	SHEET NO: 2 OF 17	
DRAWN BY: SMA	DESIGN BY: SMA	CHECKED BY: TJB
DATE: FEBRUARY 2024	PROJECT NO 23011.00	



**LAND UNSUITABLE FOR DEVELOPMENT:**  
 WETLANDS = 1.17 AC.  
 HIGH FLOOD DANGER ZONE = 0.45 AC.

**LAND UNSUITABLE FOR DEVELOPMENT:**  
 WETLANDS 1.17 AC.  
 COASTAL WETLANDS 0.00 AC.  
 HIGH FLOOD DANGER ZONE 0.45 AC.  
 EASEMENTS (ABOVE GRND. UTILITY) 0.00 AC.

**ZONING TABLE:**

ZONE:	R-40
A.P./LOT:	33/24
LOT AREA:	16.50 AC.
<b>R-40 ZONING REGULATIONS:</b>	
AREA:	40,000 SQ. FT.
FRONTAGE:	150 FT.
WIDTH:	150 FT.
BLDG. COVERAGE:	20%
HEIGHT (PRINC.):	35 FT.
HEIGHT (ACCESS.):	20 FT.
FRONT YARD:	40 FT.
CORNER SIDE:	30 FT.
SIDE YARD:	20 FT.
REAR YARD:	40 FT.
ACCESS. BLDG. SIDE:	15 FT.
ACCESS. BLDG. REAR:	10 FT.
OWTS TO WETLAND:	150 FT.



**LOCUS MAP**  
NOT TO SCALE

- NOTES:**
- EXISTING PARCEL (A.P. 33 LOT 24) CONSIST OF 16.50±ACRES THAT ARE ZONED R-40.
  - WETLAND FLAGS DELINEATED BY AVIZINS ENVIRONMENTAL SERVICES, INC. 2022.
  - OFF SITE BUILDING LOCATIONS ARE APPROXIMATE AND HAVE BEEN TAKEN FROM AERIAL PHOTOGRAPHY.
  - ABUTTING PROPERTY OWTS TAKEN FROM PLANS OF RECORD.
  - ELEVATIONS BASED ON NAVD88 VERTICAL DATUM.
  - A SMALL PORTION OF SUBJECT SITE IS SITUATED IN FEMA 100-YR FLOOD ZONE 'A' AS DEPICTED ON MAP 44009C0201J, EFFECTIVE 4/3/2020. THE REMAINING PORTION OF THE SITE IS SITUATED IN ZONE 'X' WHICH IS AREA OF MINIMAL FLOOD HAZARD.
  - THERE ARE NO EXISTING, ACTIVE AREAS OF AGRICULTURAL SOIL.
  - THE BmA SOIL TYPE IS CONSIDERED A 'PRIME AGRICULTURAL SOIL'.
  - SUBJECT SITE LIES IN THE 'SAUGATUCKET RIVER' SUB WATERSHED. THERE ARE NO BOUNDARY LINE IN SUBJECT SITE OR IN THE IMMEDIATE AREA.
  - THERE ARE NO KNOWN ROCK OUTCROPPINGS, CLIFFS OR COASTAL FEATURES ON SUBJECT SITE.
  - THERE ARE NO KNOWN STREETS, DRIVEWAYS, FARM ROADS, WOOD ROADS AND/OR TRAILS THAT HAVE BEEN IN PUBLIC USE.
  - THERE ARE NO KNOWN CEMETERIES OR IMMEDIATELY ADJACENT TO SUBJECT PROPERTY.
  - THERE ARE NO KNOWN UNIQUE NATURAL FEATURES ON SUBJECT SITE.
  - SUBJECT SITE IS SITUATED IN A NATURAL HERITAGE AREA AND TMDL WATERSHED AND IS NOT SITUATED IN A SAMP PLAN AREA, S.K. GROUND WATER PROTECTION OVERLAY DISTRICT, RIEM OWTS CRITICAL RESOURCE AREA, AND DRINKING WATER SUPPLY WATERSHED.
  - SUBJECT PARCEL AND STRUCTURES IS NOT LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES.
  - THIS IS NOT A SURVEY BOUNDARY PLAN, REFER TO SURVEY PLAN AT THE REAR OF THE PLAN SET. SURVEY INFORMATION PROVIDED BY COMMONWEALTH LAND SURVEYORS, INC.

**SURVEY NOTE:**

- THIS IS NOT A SURVEY BOUNDARY PLAN, REFER TO SURVEY PLAN AT THE REAR OF THE PLAN SET. SURVEY INFORMATION PROVIDED BY COMMONWEALTH LAND SURVEYORS, INC.

**DRAWING ISSUE:**

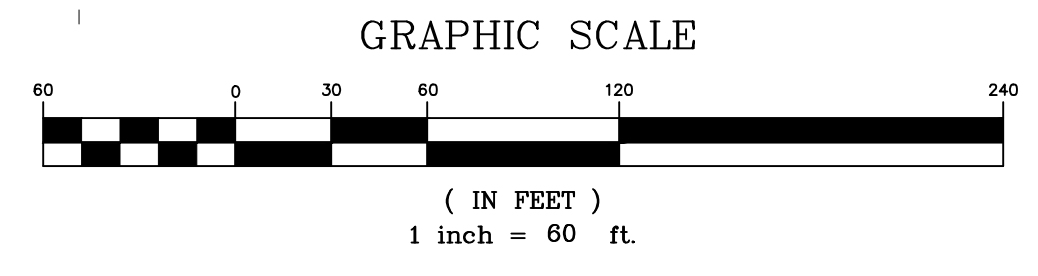
- CONCEPT
  - CUSTOMER APPROVAL
  - PERMITTING
  - CONSTRUCTION
  - AS-BUILT
  - OTHER:
- ONLY PLANS ISSUED FOR CONSTRUCTION SHALL BE USED FOR CONSTRUCTION

**OWNER:**

SHELEEN CLARKE  
96 DUCK COVE ROAD  
NORTH KINGSTOWN, RI 02852

**APPLICANT:**

NEW ENGLAND PROPERTIES, LLC  
257 WICKFORD CT.  
NORTH KINGSTOWN, RI 02852



**SOIL TYPES:**

BmA: BRIDGEHAMPTON SILT LOAM, TILL SUBSTRATUM, 0 TO 3 PERCENT SLOPES  
 FARMLAND CLASSIFICATION: ALL AREAS ARE PRIME FARMLAND  
 HYDROLOGIC SOIL GROUP: B  
 (15.0± ACRES OF 16.5 ACRE SITE)  
 R1: RIDGEBURY, LEICESTER, AND WHITMAN SOILS, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY  
 FARMLAND CLASSIFICATION: NOT PRIME FARMLAND  
 HYDROLOGIC SOIL GROUP: D  
 (1.5± ACRES OF 16.5 ACRE SITE)

**SOIL EVALUATIONS:**

- EXPLORATORY SOIL EVALUATIONS WERE PERFORMED ON FEBRUARY 16 AND 17, 2023.
- OWTS SOIL EVALUATIONS WERE PERFORMED ON MAY 7 AND 8, 2024.
- DRAINAGE SOIL EVALUATIONS WERE PERFORMED ON MAY 8, 2024.

**LEGEND**

- ABUTTER LINE
- LOT LINE
- EDGE OF ROAD PAVEMENT
- RIGHT OF WAY CENTERLINE
- ROADWAY STATION
- TEST HOLE
- PERC TEST
- LEDGE TEST
- UTILITY POLE
- WETLAND EDGE
- 200' RIVER BUFFER ZONE
- 20' STRUCTURE SETBACK
- EXISTING STONEWALL
- UNDERGROUND TELE/COMM
- BUILDING SETBACK LINE
- EXISTING CONTOUR
- EXISTING SPOT GRADE
- PROPOSED LOT CONTOUR
- PROPOSED SPOT GRADE
- DRAINAGE MANHOLE
- HYDRANT
- DRAIN LINE
- WATERLINE
- OVERHEAD WIRES
- UNDERGROUND ELECTRIC/TELE.
- SOIL BOUNDARY LINE
- FEMA 100-YR FLOOD ZONE
- CURB STOP
- WATER VALVE
- PROPOSED STONE WALL

TIMOTHY J. BEHAN  
REGISTERED PROFESSIONAL ENGINEER  
No. 6278  
1/30/2025

**COMMONWEALTH ENGINEERS & CONSULTANTS, INC.**  
 400 SMITH STREET  
 PROVIDENCE, RHODE ISLAND 02908  
 (401) 273-6600

**REVISIONS**

No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
5	10/21/24	SMA	TB
6	11/24/24	SMA	TB
7	01/30/25	SMA	TB

**PERMIT AGENCY REVIEW PLAN**  
 FOR  
**VILLAGE AT BROAD ROCK**  
 PLAT 33, LOT 24  
 ON  
**BROAD ROCK ROAD**  
 SOUTH KINGSTOWN, RHODE ISLAND  
**EXISTING CONDITIONS PLAN**

SCALE: AS SHOWN	SHEET NO: 3 OF 17
DRAWN BY: SMA	DESIGN BY: SMA
DATE: FEBRUARY 2024	CHECKED BY: TJB
	PROJECT NO 23011.00

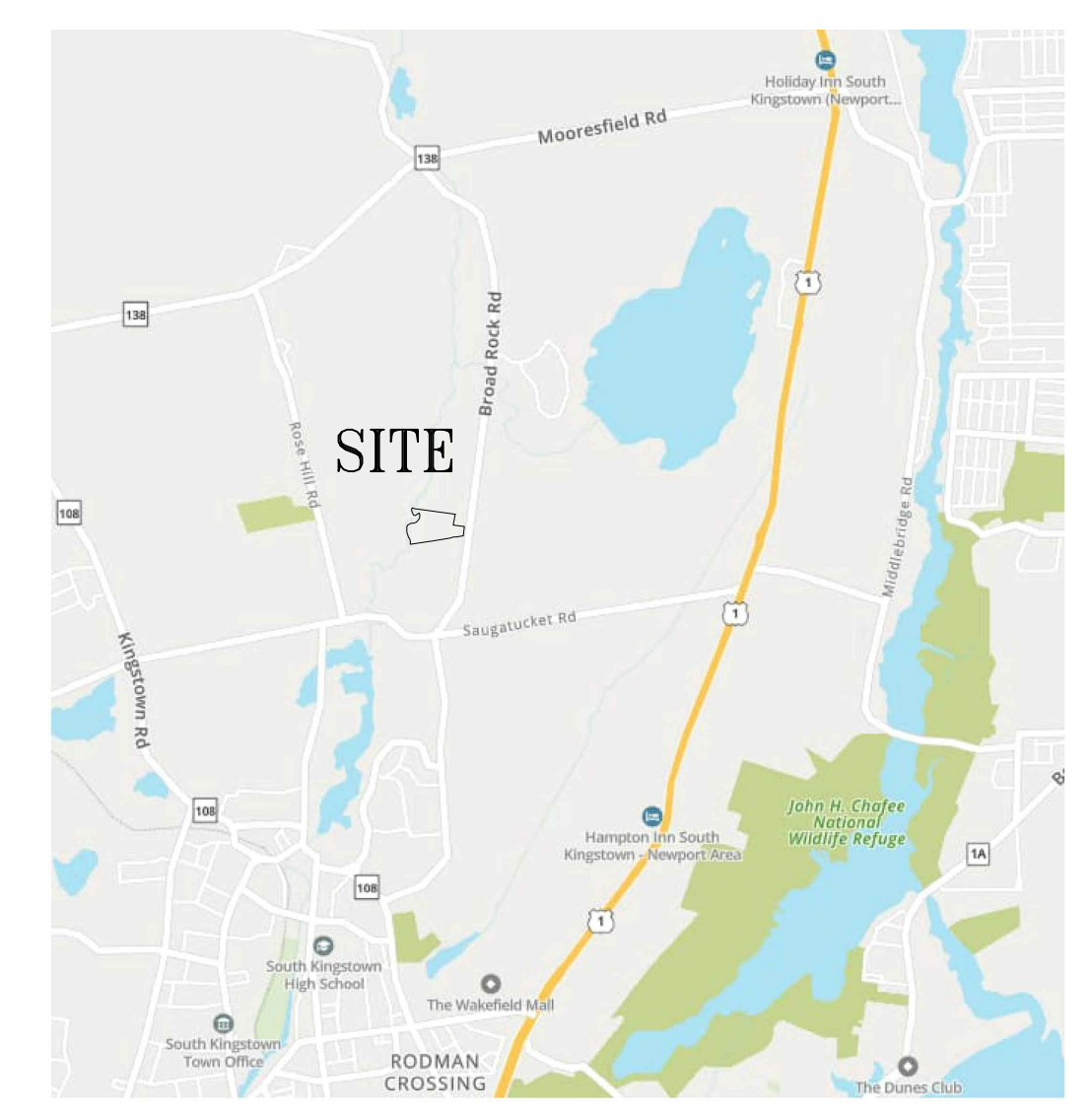
LAND UNSUITABLE FOR DEVELOPMENT:  
 WETLANDS = 1.17 AC.  
 HIGH FLOOD DANGER ZONE = 0.45 AC.

**OPEN SPACE CALCULATIONS:**  
 CALCULATIONS PERFORMED IN ACCORDANCE WITH SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, ARTICLE IV, A, 11:  
 TOTAL LAND AREA = 16.50 ACRES  
 LAND UNSUITABLE FOR DEVELOPMENT = 1.62 ACRES  
 LAND SUITABLE FOR DEVELOPMENT = 14.88 ACRES  
 R-40 ZONE REQUIRES 50% OF LAND SUITABLE FOR DEVELOPMENT TO BE OPEN SPACE.  
 OPEN SPACE REQUIRED = 14.88 X 50% = 7.44 ACRES  
 TOTAL OPEN SPACE PROVIDED = 10.06 ACRES  
 SUBTRACT OUT 1) LAND SUITABLE FOR DEVELOPMENT AND 2) STORMWATER AREAS. OPEN SPACE PROVIDED = 10.04 - 1.62 - 0.77 = 7.65 AC. > 7.44 AC.  
 % OPEN SPACE MORE THAN THE MINIMUM = 2.7%

**DENSITY CALCULATIONS:**  
 YIELD PLAN = 13 LOTS  
**INCLUSIONARY INCENTIVE BONUS:**  
 IN ACCORDANCE WITH RI GENERAL LAW §45-24-46.1.C, FOR EACH INCLUSIONARY LOT PROVIDED, 2 MARKET RATE LOTS SHALL BE PROVIDED AS A DENSITY BONUS.  
 3 AFFORDABLE LOTS ARE PROVIDED; THEREFORE, 6 ADDITIONAL MARKET RATE LOTS ARE PROVIDED.  
**TOTAL LOTS = 13 + 6 = 19 LOTS**  
 LOTS 6, 11 AND 18 SHALL BE AFFORDABLE HOUSING LOTS

**ZONING TABLE:**

ZONE: R-40  
 A.P./LOT 33/24  
 LOT AREA 16.50 AC.  
 R-40 ZONING REGULATIONS:  
 AREA 40,000 SQ. FT.  
 FRONTAGE 150 FT.  
 WIDTH 150 FT.  
 BLDG. COVERAGE 20%  
 HEIGHT (PRINC.) 35 FT.  
 HEIGHT (ACCESS.) 40 FT.  
 FRONT YARD 30 FT.  
 CORNER SIDE 30 FT.  
 SIDE YARD 20 FT.  
 REAR YARD 40 FT.  
 ACCESS. BLDG. SIDE 15 FT.  
 ACCESS. BLDG. REAR 10 FT.  
 OWTS TO WETLAND 150 FT.

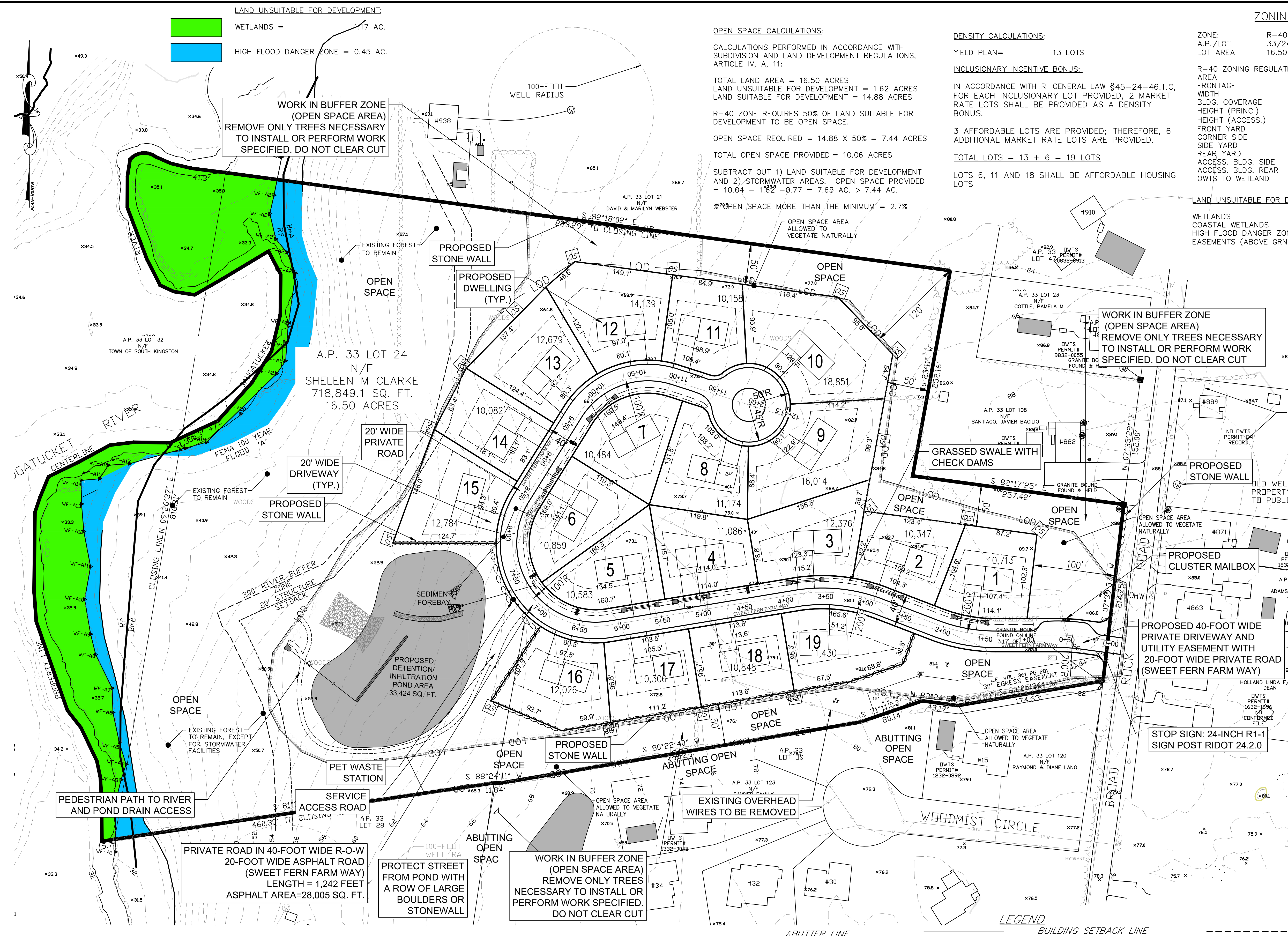


**LOCUS MAP**  
NOT TO SCALE

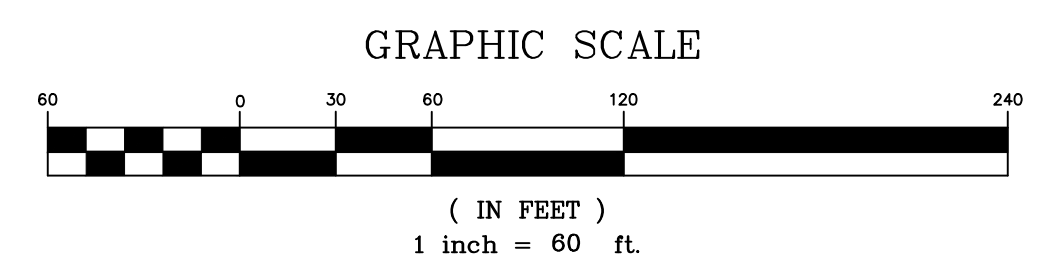
PROPOSED SUBDIVISION LOT SUMMARY						
LOT	AREA (SQ. FT.)	TOP FOUNDATION (FT.)	GARAGE SLAB (FT.)	BASEMENT SLAB (FT.)	ESHWG ELEV. (FT.)	LOT IMPERVIOUS AREA (SQ. FT.)
1	10,713	85.40	83.90	NONE	80.00	2,800
2	10,347	85.50	82.50	78.00	77.00	2,645
3	12,376	82.50	80.95	75.00	73.00	2,633
4	11,086	78.50	75.75	71.00	69.00	2,677
5	10,583	75.20	73.85	67.70	65.00	2,742
6	10,859	71.50	65.70	64.00	61.00	2,644
7	10,484	73.50	69.70	66.00	64.00	2,737
8	11,174	77.50	75.50	70.00	68.00	2,474
9	16,014	83.50	77.40	76.00	74.00	2,605
10	18,851	80.50	78.40	73.00	71.00	2,617
11	10,158	75.50	73.50	68.00	66.00	2,546
12	14,139	73.50	71.50	66.00	62.00	2,408
13	12,679	70.00	68.80	62.50	59.00	2,448
14	10,082	68.50	67.30	61.00	54.00	2,435
15	12,784	65.50	65.00	58.00	50.00	2,438
16	12,026	71.20	68.70	63.70	61.00	2,425
17	10,306	75.75	73.30	68.25	66.00	2,390
18	10,848	80.00	77.50	72.50	70.50	2,466
19	11,430	82.50	81.25	75.00	73.00	2,386
<b>TOTAL LOTS</b>	<b>226,939</b>	<b>SQ. FT.</b>	<b>5.21</b>	<b>ACRES</b>		<b>48,516</b>
<b>DRIVEWAY/UTILITY EASEMENT</b>	<b>53,689</b>	<b>SQ. FT.</b>	<b>1.23</b>	<b>ACRES</b>		<b>28,005</b>
<b>LAND UNSUITABLE</b>	<b>70,567</b>	<b>SQ. FT.</b>	<b>1.62</b>	<b>ACRES</b>		
<b>STORMWATER POND</b>	<b>33,424</b>	<b>SQ. FT.</b>	<b>0.77</b>	<b>ACRES</b>		
<b>OPEN SPACE</b>	<b>334,230</b>	<b>SQ. FT.</b>	<b>7.65</b>	<b>ACRES</b>		

**STONE WALL NOTES:**  
 EXISTING STONE WALL TO BE RELOCATED = 936± FEET  
 PROPOSED FEET OF REPLACEMENT STONE WALL = 991± FEET

**OWNER:**  
 SHELEEN CLARKE  
 96 DUCK COVE ROAD  
 NORTH KINGSTOWN, RI 02852  
**APPLICANT:**  
 NEW ENGLAND PROPERTIES, LLC  
 257 WICKFORD CT.  
 NORTH KINGSTOWN, RI 02852



- NOTES:**
- EXISTING PARCEL (A.P. 33 LOT 24) CONSIST OF 16.50±ACRES THAT ARE ZONED R-40.
  - WETLAND FLAGS DELINEATED BY AVIZINIS ENVIRONMENTAL SERVICES, INC. 2022.
  - OFF SITE BUILDING LOCATIONS ARE APPROXIMATE AND HAVE BEEN TAKEN FROM AERIAL PHOTOGRAPHY.
  - ELEVATIONS BASED ON NAVD88 VERTICAL DATUM.
  - A SMALL PORTION OF SUBJECT SITE IS SITUATED IN FEMA 100-YR FLOOD ZONE 'A' AS DEPICTED ON MAP 44009C0201J, EFFECTIVE 4/3/2020. THE REMAINING PORTION OF THE SITE IS SITUATED IN ZONE 'X' WHICH IS AREA OF MINIMAL FLOOD HAZARD.
  - THERE IS NO EXISTING AGRICULTURAL USE ON THE SITE.
  - THE ENTIRE AND SURROUNDING PROPERTIES CONTAIN PRIME AGRICULTURAL SOILS AND FARMLAND SOILS OF IMPORTANCE, PROPERTY.
  - THERE ARE NO EXISTING STREETS, DRIVEWAYS, FARM ROADS, WOODS ROADS AND/OR TRAILS THAT HAVE BEEN IN PUBLIC USE.
  - THERE ARE NO HISTORIC CEMETERIES LOCATED ON OR ADJACENT TO THE SITE.
  - THE SITE IS LOCATED WITHIN A NATURAL HERITAGE AREA AS DEFINED BY RIDEM.
  - THE SITE IS NOT LOCATED WITHIN A DRINKING WATER RESERVOIR, GROUNDWATER RECHARGE AREA OR SOLE SOURCE AQUIFER AS DEFINED BY RIDEM.
  - THE SITE IS NOT LOCATED IN A CRMC SAMP AREA, A TOWN OF SOUTH KINGSTOWN GROUNDWATER PROTECTION OVERLAY DISTRICT OR AN OWTS CRITICAL RESOURCE AREA.
  - THE SITE AND ANY EXISTING BUILDINGS ON THE SITE ARE NOT LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES.
  - THE SAUGATUCKET RIVER HAS A TMDL FOR FECAL COLIFORM.



**PROPOSED LAYOUT PLAN**  
SCALE: 1" = 60'

- LEGEND**
- BUTTER LINE
  - LOT LINE
  - EDGE OF ROAD PAVEMENT
  - ROADWAY CENTERLINE
  - ROADWAY STATION
  - TEST HOLE
  - PERC TEST
  - LEDGE TEST
  - UTILITY POLE
  - WETLAND EDGE
  - 200' RIVER BUFFER ZONE
  - 20' STRUCTURE SETBACK
  - EXISTING STONEMALL
  - UNDERGROUND TELE/COMM
  - OPEN SPACE MARKER
  - BUILDING SETBACK LINE
  - EXISTING CONTOUR
  - EXISTING SPOT GRADE
  - PROPOSED LOT CONTOUR
  - PROPOSED SPOT GRADE
  - DRAINAGE MANHOLE
  - HYDRANT
  - DRAIN LINE
  - WATERLINE
  - OVERHEAD WIRES
  - UNDERGROUND ELECTRIC/TELE
  - SOIL BOUNDARY LINE
  - FEMA 100-YR FLOOD ZONE
  - CURB STOP
  - WATER VALVE
  - PROPOSED STONE WALL

**TIMOTHY J. BEHAN**  
 No. 6278  
 REGISTERED PROFESSIONAL ENGINEER  
 1/30/2025

**COMMONWEALTH ENGINEERS & CONSULTANTS, INC.**  
 400 SMITH STREET  
 PROVIDENCE, RHODE ISLAND 02908  
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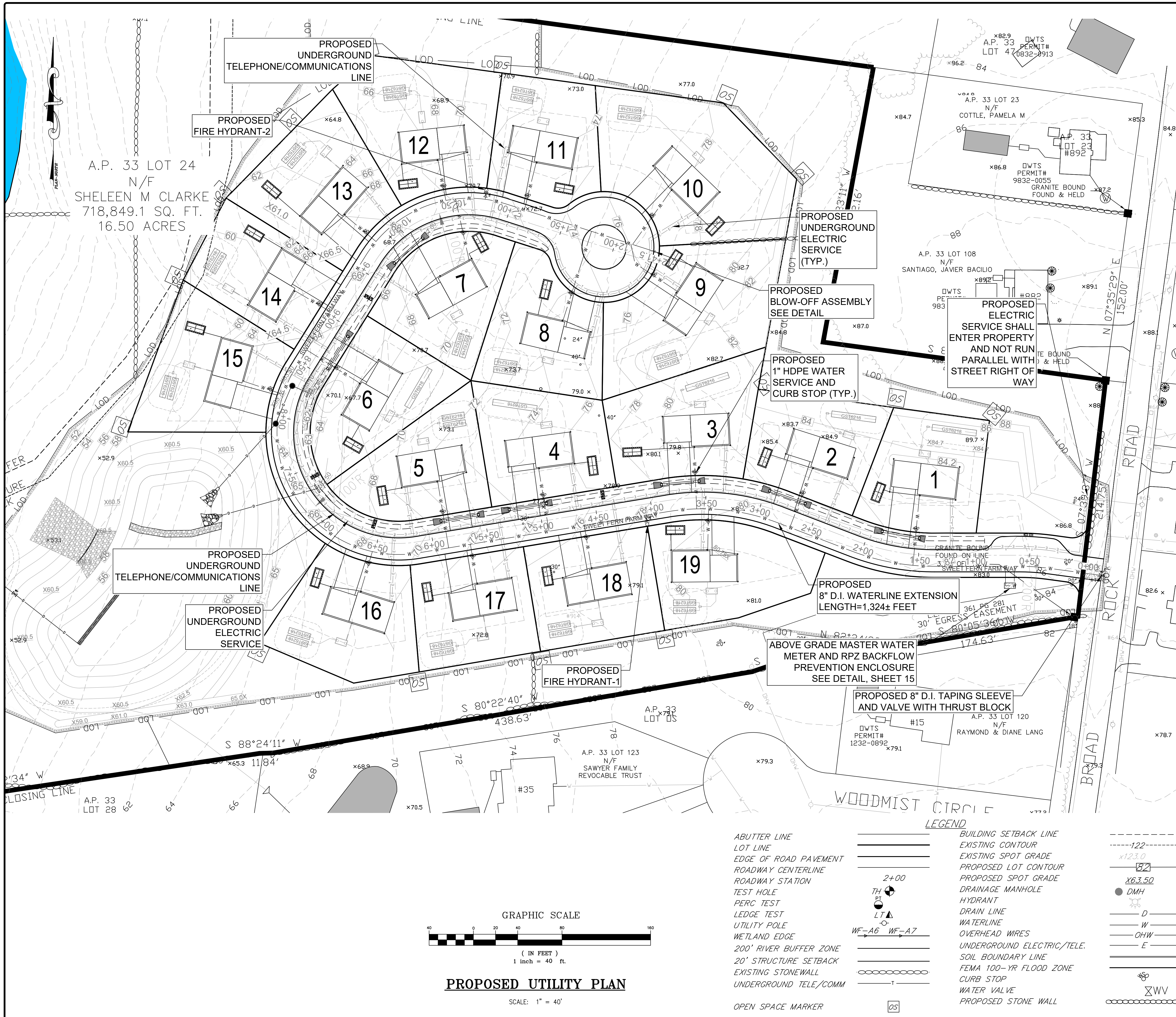
**REVISIONS**

No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
5	10/21/24	SMA	TB
6	11/24/24	SMA	TB
7	01/30/25	SMA	TB

**PERMIT AGENCY REVIEW PLAN**  
 FOR  
 VILLAGE AT BROAD ROCK  
 PLAT 33, LOT 24  
 ON  
 BROAD ROCK ROAD  
 SOUTH KINGSTOWN, RHODE ISLAND  
**PROPOSED LAYOUT PLAN**

SCALE: AS SHOWN SHEET NO: 4 OF 17  
 DRAWN BY: SMA DESIGN BY: SMA CHECKED BY: TJB  
 DATE: FEBRUARY 2024 PROJECT NO: 23011.00





A.P. 33 LOT 24  
N/F  
SHELEEN M CLARKE  
718,849.1 SQ. FT.  
16.50 ACRES

- NOTES:
- EXISTING PARCEL, (A.P. 33 LOT 24) CONSIST OF 16.50±ACRES THAT ARE ZONED R-40.
  - WETLAND FLAGS DELINEATED BY AVIZINIS ENVIRONMENTAL SERVICES, INC. 2022.
  - OFF SITE BUILDING LOCATIONS ARE APPROXIMATE AND HAVE BEEN TAKEN FROM AERIAL PHOTOGRAPHY.
  - ABUTTING PROPERTY OWTS' TAKEN FROM PLANS OF RECORD.
  - ELEVATIONS BASED ON NAVD88 VERTICAL DATUM.
  - A SMALL PORTION OF SUBJECT SITE IS SITUATED IN FEMA 100-YR FLOOD ZONE "A" AS DEPICTED ON MAP 440090201J, EFFECTIVE 4/3/2020. THE REMAINING PORTION OF THE SITE IS SITUATED IN ZONE "X" WHICH IS AREA OF MINIMAL FLOOD HAZARD.
  - THE BmA SOIL TYPE IS CONSIDERED A 'PRIME AGRICULTURAL SOIL'.
  - THIS IS NOT A SURVEY BOUNDARY PLAN, REFER TO SURVEY PLAN AT THE REAR OF THE PLAN SET. SURVEY INFORMATION PROVIDED BY COMMONWEALTH LAND SURVEYORS, INC.

LOT	UTILITY CONNECTION SUMMARY		
	WATER SERVICE STATION	ELECTRIC SERVICE STATION	TELE/COMM SERVICE STATION
LOT-1	1+54.20	1+19.40	1+21.40
LOT-2	2+68.20	2+38.25	2+40.25
LOT-3	3+58.75	3+32.50	3+34.50
LOT-4	4+94.90	4+65.00	4+67.00
LOT-5	5+86.75	6+18.10	6+16.10
LOT-6	8+62.65	8+88.80	8+86.80
LOT-7	10+53.35	9+56.70	9+54.70
LOT-8	11+76.35	12+01.75	12+03.75
LOT-9	12+13.75	12+34.20	12.32.20
LOT-10	12+15.20	12+30.20	12+28.20
LOT-11	11+12.75	10+86.45	10+84.45
LOT-12	10+45.30	10+67.75	10+69.75
LOT-13	9+77.45	9+98.60	9+96.60
LOT-14	9+03.60	8+72.30	8+74.30
LOT-15	8+19.60	8+39.25	8+37.25
LOT-16	6+51.75	6+34.60	6+36.60
LOT-17	5+66.85	5+36.85	5+38.85
LOT-18	4+62.60	4+32.60	4+34.60
LOT-19	3+47.40	3+51.40	3+53.40
HYDRANT-1	4+06.25	N/A	N/A
HYDRANT-2	10+77.75	N/A	N/A

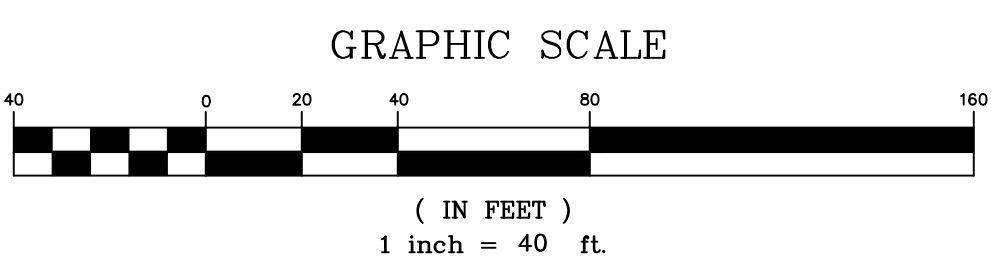
ESTIMATED PROPOSED DAILY DESIGN WATER/WASTEWATER FLOWS PER RIDEM REGULATIONS			
TYPE	DESIGN FLOW	DESIGN UNITS	DESIGN FLOW (GAL/DAY)
BEDROOMS	115 GAL/BEDROOM/DAY	19 UNITS X 4BEDROOMS EACH = 76	8,740
TOTAL ESTIMATED MAXIMUM DAILY DESIGN FLOW (GAL.)			8,740

DESIGN FLOW = MAXIMUM DAILY FLOW (PEAK FLOW)  
 AVERAGE DAILY FLOW = DESIGN FLOW / 2.0 (SEE RULE 21)  
 HOURLY PEAK FLOW FACTOR IS 5.7 (TR-16, FIGURE 2-1)

PEAK FLOW	8,740 GAL/DAY
AVERAGE DAILY FLOW	4370 GAL/DAY
HOURLY PEAK FLOW	= 4,370 GAL/DAY X 5.7 / 1,440 = 17.3 GAL/MIN.

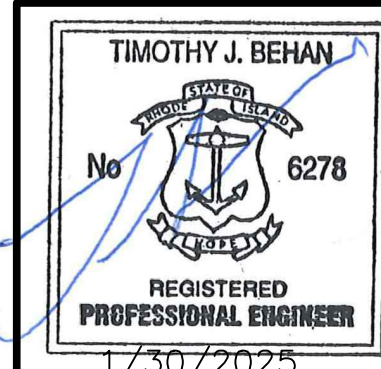
OWNER:  
SHELEEN CLARKE  
96 DUCK COVE ROAD  
NORTH KINGSTOWN, RI 02852

APPLICANT:  
NEW ENGLAND PROPERTIES, LLC  
257 WICKFORD CT.  
NORTH KINGSTOWN, RI 02852



**PROPOSED UTILITY PLAN**  
SCALE: 1" = 40'

- LEGEND**
- ABUTTER LINE
  - LOT LINE
  - EDGE OF ROAD PAVEMENT
  - ROADWAY CENTERLINE
  - ROADWAY STATION
  - TEST HOLE
  - PERC TEST
  - LEDGE TEST
  - UTILITY POLE
  - WETLAND EDGE
  - 200' RIVER BUFFER ZONE
  - 20' STRUCTURE SETBACK
  - EXISTING STONEWALL
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  - PROPOSED LOT CONTOUR
  - PROPOSED SPOT GRADE
  - DRAINAGE MANHOLE
  - HYDRANT
  - DRAIN LINE
  - WATERLINE
  - OVERHEAD WIRES
  - UNDERGROUND ELECTRIC/TELE.
  - SOIL BOUNDARY LINE
  - FEMA 100-YR FLOOD ZONE
  - CURB STOP
  - WATER VALVE
  - PROPOSED STONE WALL



REVISIONS			
No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
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6	11/24/24	SMA	TB
7	01/30/25	SMA	TB

PERMIT AGENCY REVIEW PLAN  
FOR  
VILLAGE AT BROAD ROCK  
PLAT 33, LOT 24  
ON  
BROAD ROCK ROAD  
SOUTH KINGSTOWN, RHODE ISLAND  
**PROPOSED UTILITY PLAN**

SCALE: AS SHOWN	SHEET NO: 6 OF 17
DRAWN BY: SMA	DESIGN BY: SMA
DATE: FEBRUARY 2024	CHECKED BY: TJB
	PROJECT NO: 23011.00

**NOTES:**

- EXISTING PARCEL (A.P. 33 LOT 24) CONSIST OF 16.50±ACRES THAT ARE ZONED R-40.
- WETLAND FLAGS DELINEATED BY AVIZINIS ENVIRONMENTAL SERVICES, INC. 2022.
- OFF SITE BUILDING LOCATIONS ARE APPROXIMATE AND HAVE BEEN TAKEN FROM AERIAL PHOTOGRAPHY.
- ABUTTING PROPERTY OWTS TAKEN FROM PLANS OF RECORD.
- ELEVATIONS BASED ON NAVD88 VERTICAL DATUM.
- A SMALL PORTION OF SUBJECT SITE IS SITUATED IN FEMA 100-YR FLOOD ZONE 'A' AS DEPICTED ON MAP 44090201J, EFFECTIVE 4/3/2020. THE REMAINING PORTION OF THE SITE IS SITUATED IN ZONE 'X' WHICH IS AREA OF MINIMAL FLOOD HAZARD.
- THE BmA SOIL TYPE IS CONSIDERED A 'PRIME AGRICULTURAL SOIL'. THIS IS NOT A SURVEY BOUNDARY PLAN, REFER TO SURVEY PLAN AT THE REAR OF THE PLAN SET. SURVEY INFORMATION PROVIDED BY COMMONWEALTH LAND SURVEYORS, INC.

**LAND UNSUITABLE FOR DEVELOPMENT:**

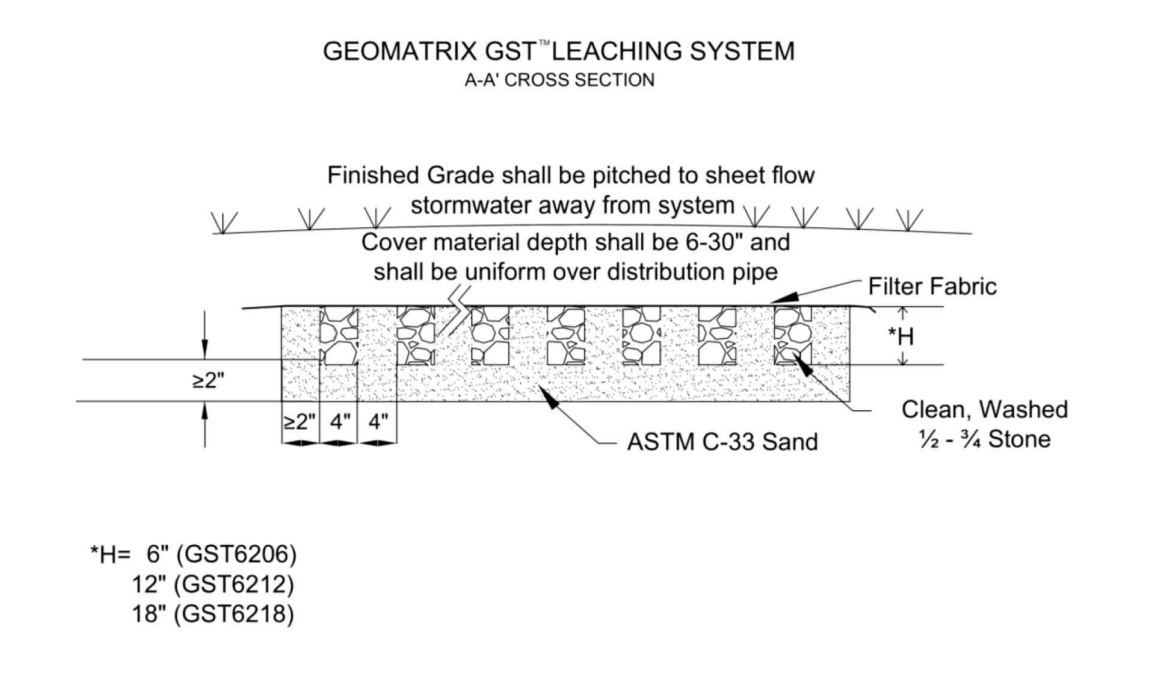
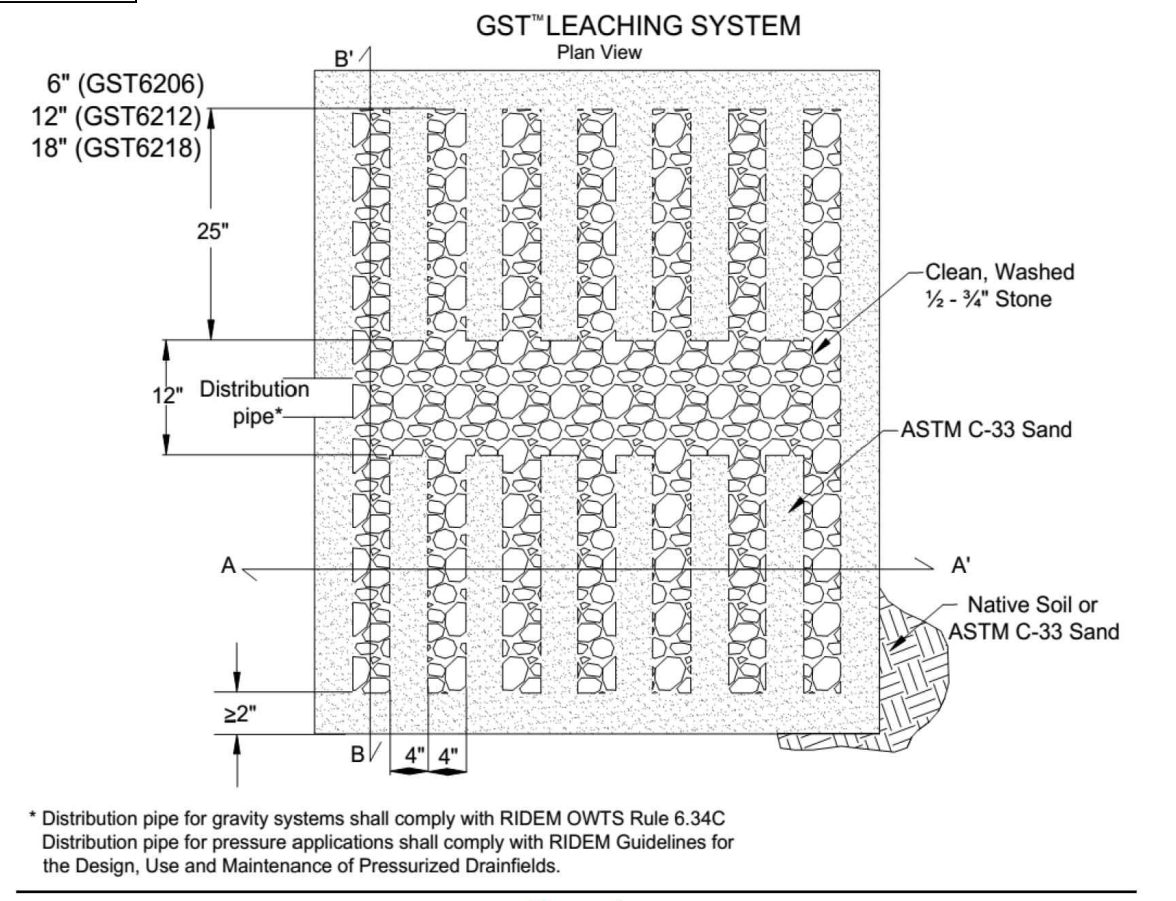
- WETLANDS = 1.17 AC.
- HIGH FLOOD DANGER ZONE = 0.45 AC.

OWTS DESIGN SUMMARY TABLE														
LOT	NUMBER OF BEDROOMS	EXISTING GRADE AT CENTER OF LEACHFIELD	BUILDING SEWER AT FOUNDATION ELEV. (FT.)	SEPTIC TANK INLET ELEV. (FT.)	SEPTIC TANK OUTLET ELEV. (FT.)	INVERT DISTRIBUTION BOX INLET ELEV. (FT.)	INVERT DISTRIBUTION BOX OUTLET ELEV. (FT.)	INVERT DISTRIBUTION LINE ELEV. (FT.)	BOTTOM GST 6218 LEACHFIELD ELEV. (FT.)	MIN. LEACHFIELD COVER ELEV. (FT.)	ESHWG ELEV. (FT.)	LEDGE ELEV. (FT.)	SLEEVED BUILDING SEWER (Y/N)	PUMP REQUIRED (Y/N)
LOT-1	4	88.0	82.00	81.87	81.62	85.21	85.04	84.87	83.20	85.70	80.00	78.00	N	Y
LOT-2	4	86.2	80.00	79.87	79.62	84.21	84.04	83.87	82.20	84.70	78.20	76.20	N	Y
LOT-3	4	82.3	80.00	79.87	79.62	79.51	79.34	79.17	77.50	80.00	74.30	72.30	N	Y
LOT-4	4	75.7	73.53	73.40	73.15	72.91	72.74	72.57	70.90	73.40	67.70	65.70	N	N
LOT-5	4	73.2	68.50	68.37	68.12	70.41	70.24	70.07	68.40	70.90	65.20	63.20	N	Y
LOT-6	4	71.4	68.00	67.87	67.62	69.61	69.44	69.27	67.60	70.10	64.40	62.40	N	Y
LOT-7	4	72.7	68.00	67.87	67.62	69.91	69.74	69.57	67.90	70.40	64.70	62.70	N	Y
LOT-8	4	73.7	71.65	71.52	71.27	70.91	70.74	70.57	68.90	71.40	65.70	63.70	N	N
LOT-9	4	82.2	80.53	80.40	80.15	79.41	79.24	79.07	77.40	79.90	74.20	72.20	N	N
LOT-10	4	75.5	75.40	75.28	75.03	72.71	72.54	72.37	70.70	73.20	67.50	65.50	N	N
LOT-11	4	71.7	71.99	71.86	71.61	71.21	71.04	70.87	69.20	71.70	66.00	64.00	N	N
LOT-12	4	67.5	65.45	65.33	65.08	64.71	64.54	64.37	62.70	65.20	59.50	57.50	N	N
LOT-13	4	64.3	62.36	61.99	61.74	61.51	61.34	61.17	59.50	62.00	56.30	54.30	Y	N
LOT-14	4	59.3	58.21	57.83	57.58	57.31	57.14	56.97	55.30	57.80	51.30	49.30	Y	N
LOT-15	4	55.5	57.42	57.06	56.81	56.51	56.34	56.17	54.50	57.00	47.50	45.50	Y	N
LOT-16	4	65.8	65.88	65.52	65.27	64.81	64.64	64.47	62.80	65.30	57.80	55.80	Y	N
LOT-17	4	72.0	71.52	71.16	70.91	70.51	70.34	70.17	68.50	71.00	64.00	62.00	Y	N
LOT-18	4	77.0	77.24	76.86	76.61	76.01	75.84	75.67	74.00	76.50	69.00	67.00	Y	N
LOT-19	4	80.1	79.19	79.07	78.82	78.36	78.19	78.02	76.35	78.85	72.10	70.10	N	N

**LEACHFIELD SIZING CALCULATIONS:**  
 FLOW TO LEACHFIELD = 115 GAL./BEDROOM/DAY X 4 BEDROOMS = 460 GAL./DAY  
 LOADING RATE = 0.48 GAL./SF/DAY (CAT. BM SOILS)  
 SQUARE FEET REQ'D. = 460 / 0.48 = 958 S.F.  
 USE GST LEACHING SYSTEM GST6218 = 24.8 S.F. PER L.F.  
 PROVIDED = 40 L.F. X 24.8 S.F./L.F. = 992 S.F. > 958 S.F., OK

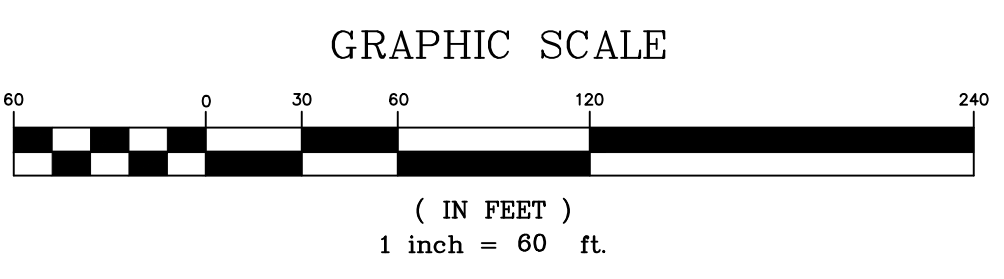
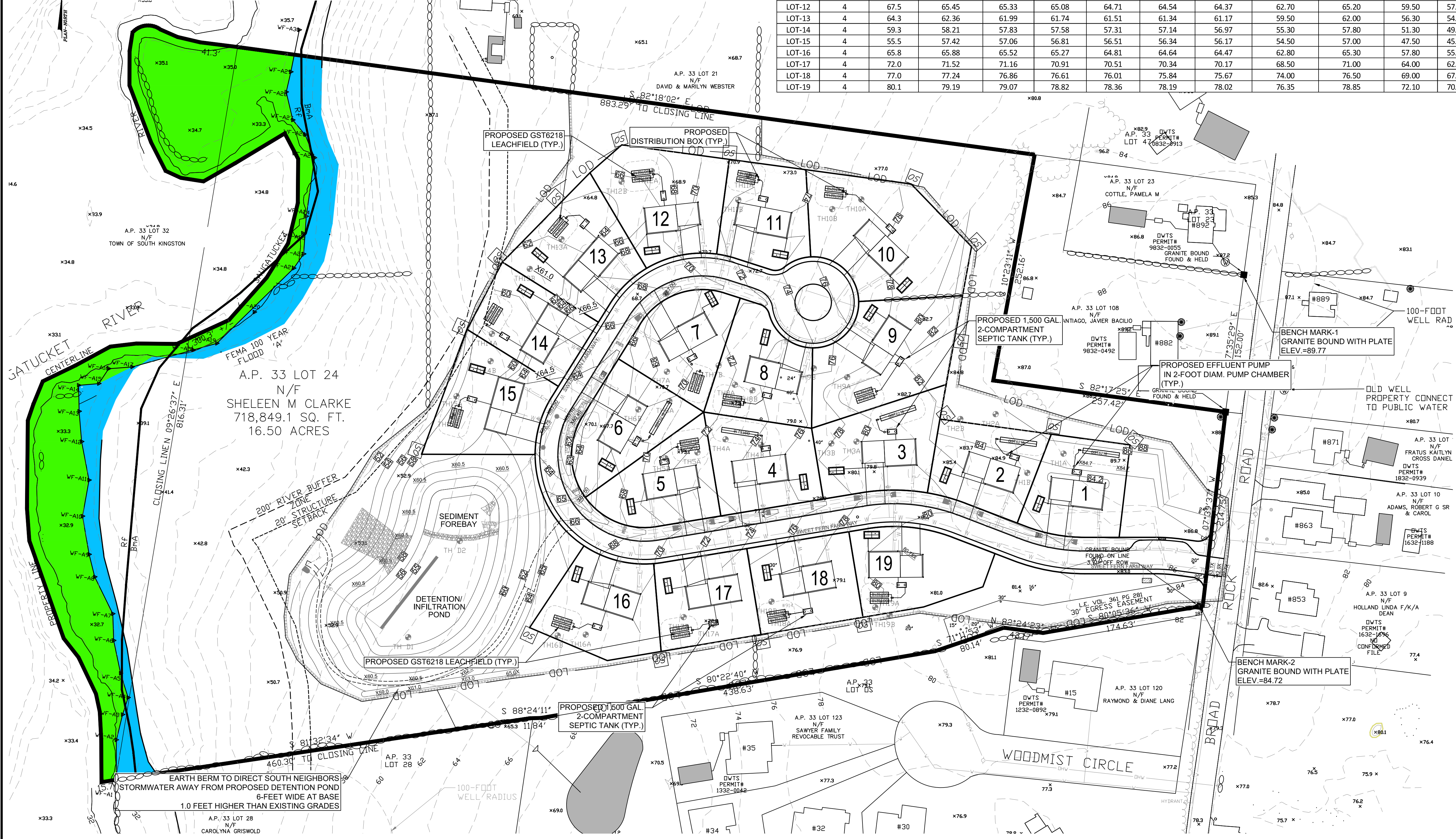
**TANK SIZING CALCULATIONS:**  
 SEPTIC TANK  
 4-BEDROOM RESIDENTIAL HOUSE  
 1,000 GALLON TANK FOR 3-BEDROOMS PLUS 250 GALLONS PER ADDITIONAL BEDROOM  
 1,000 GAL. + 250 GAL. = 1,250 MIN. TANK SIZE  
 1,500 GAL. 2-COMPARTMENT TANK PROVIDED

**OWTS NOTES:**  
 1. SEPARATION DISTANCES FROM PUBLIC WELLS, PRIVATE WELLS, PER RULE 6.21 (B) (4) (B & C) HAVE BEEN VERIFIED. WATER COURSES WITHIN 200-FOOT AND EXISTING OWTS WITHIN 100-FOOT HAVE BEEN SHOWN PER RULE 6.21 (B) (4) (A & D).  
 2. ADDITIONAL SOIL EVALUATION TEST RESULTS MAY BE REQUIRED FOR INDIVIDUAL OWTS APPLICATION SUBMITTALS.



**OWNER:**  
 SHELEEN CLARKE  
 96 DUCK COVE ROAD  
 NORTH KINGSTOWN, RI 02852

**APPLICANT:**  
 NEW ENGLAND PROPERTIES, LLC  
 257 WICKFORD CT.  
 NORTH KINGSTOWN, RI 02852



**PROPOSED OWTS LOCATION PLAN**  
 SCALE: 1" = 60'

**LEGEND**

ABUTTER LINE	---	BUILDING SETBACK LINE	---
LOT LINE	---	EXISTING CONTOUR	---
EDGE OF ROAD PAVEMENT	---	EXISTING SPOT GRADE	---
ROADWAY CENTERLINE	---	PROPOSED LOT CONTOUR	---
ROADWAY STATION	---	PROPOSED SPOT GRADE	---
TEST HOLE	TH	DRAINAGE MANHOLE	DMH
PERC TEST	PT	HYDRANT	H
LEDGE TEST	L7	DRAIN LINE	D
UTILITY POLE	U	WATERLINE	W
WETLAND EDGE	WF-A6 WF-A7	OVERHEAD WIRES	OWW
200' RIVER BUFFER ZONE	---	UNDERGROUND ELECTRIC/TELE.	E
20' STRUCTURE SETBACK	---	SOIL BOUNDARY LINE	---
EXISTING STONEWALL	---	FEMA 100-YR FLOOD ZONE	---
UNDERGROUND TELE/COMM	---	CURB STOP	---
OPEN SPACE MARKER	OS	WATER VALVE	---
		PROPOSED STONE WALL	---

**TIMOTHY J. BEHAN**  
 No. 6278  
 REGISTERED PROFESSIONAL ENGINEER  
 1/30/2025

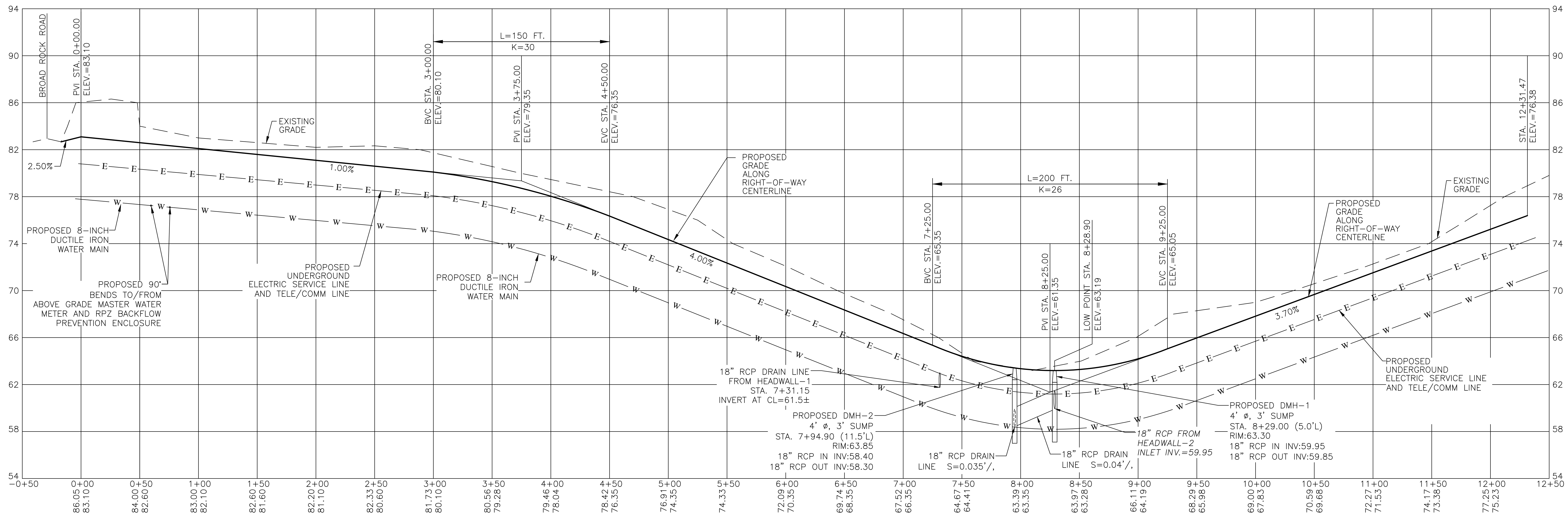
**COMMONWEALTH ENGINEERS & CONSULTANTS, INC.**  
 400 SMITH STREET  
 PROVIDENCE, RHODE ISLAND 02908  
 (401) 273-6600

**REVISIONS**

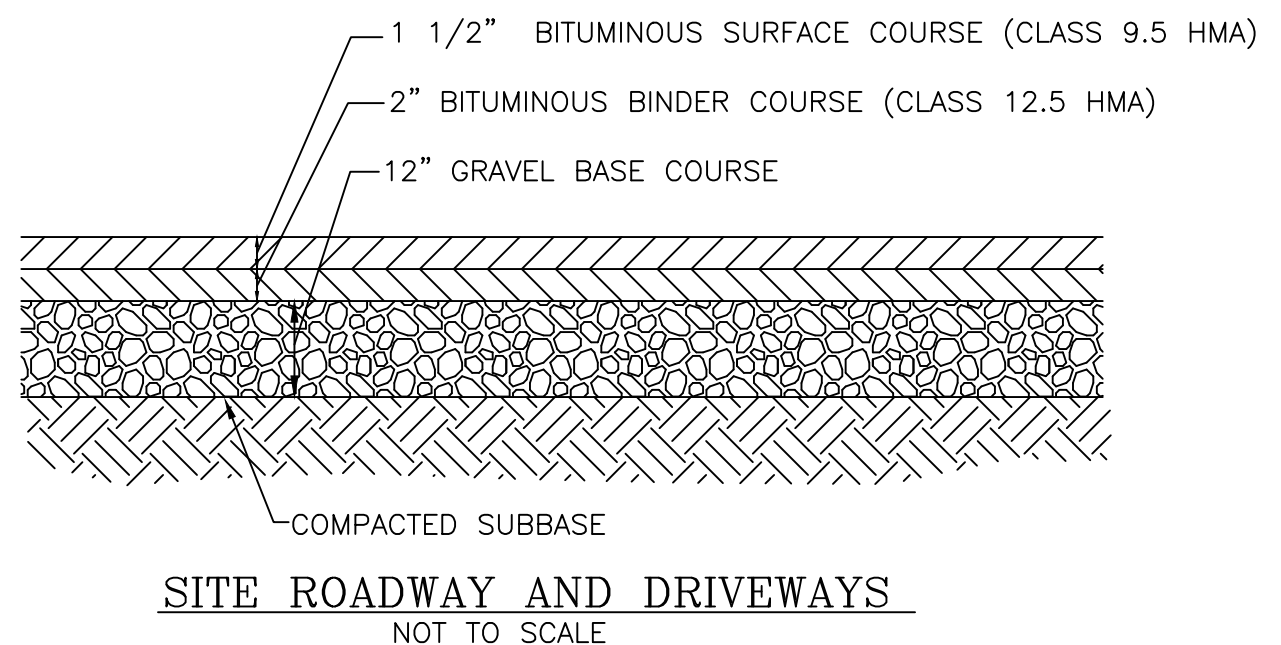
No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
5	10/21/24	SMA	TB
6	11/24/24	SMA	TB
7	01/30/25	SMA	TB

**PERMIT AGENCY REVIEW PLAN**  
 FOR  
 VILLAGE AT BROAD ROCK  
 PLAT 33, LOT 24  
 ON  
 BROAD ROCK ROAD  
 SOUTH KINGSTOWN, RHODE ISLAND  
**PROPOSED OWTS LOCATION PLAN**

SCALE: AS SHOWN	SHEET NO: 7 OF 17	
DRAWN BY: SMA	DESIGN BY: SMA	CHECKED BY: TJB
DATE: FEBRUARY 2024	PROJECT NO: 23011.00	



UTILITY CONNECTION SUMMARY			
LOT	WATER SERVICE STATION	ELECTRIC SERVICE STATION	TELE/COMM SERVICE STATION
LOT-1	1+54.20	1+19.40	1+21.40
LOT-2	2+68.20	2+38.25	2+40.25
LOT-3	3+58.75	3+32.50	3+34.50
LOT-4	4+94.90	4+65.00	4+67.00
LOT-5	5+86.75	6+18.10	6+16.10
LOT-6	8+62.65	8+88.80	8+86.80
LOT-7	10+53.35	9+56.70	9+54.70
LOT-8	11+76.35	12+01.75	12+03.75
LOT-9	12+13.75	12+34.20	12.32.20
LOT-10	12+15.20	12+30.20	12+28.20
LOT-11	11+12.75	10+86.45	10+84.45
LOT-12	10+45.30	10+67.75	10+69.75
LOT-13	9+77.45	9+98.60	9+96.60
LOT-14	9+03.60	8+72.30	8+74.30
LOT-15	8+19.60	8+39.25	8+37.25
LOT-16	6+51.75	6+34.60	6+36.60
LOT-17	5+66.85	5+36.85	5+38.85
LOT-18	4+62.60	4+32.60	4+34.60
LOT-19	3+47.40	3+51.40	3+53.40
HYDRANT-1	6+22.30	N/A	N/A
HYDRANT-2	12+38.55	N/A	N/A



**PROFILE VIEW**  
SCALE  
HORIZONTAL: 1-INCH= 40- FEET  
VERTICAL: 1-INCH= 4- FEET

OWNER:  
SHELEEN CLARKE  
96 DUCK COVE ROAD  
NORTH KINGSTOWN, RI 02852

APPLICANT:  
NEW ENGLAND PROPERTIES, LLC  
257 WICKFORD CT.  
NORTH KINGSTOWN, RI 02852

- NOTES:**
- EXISTING PARCEL (A.P. 33 LOT 24) CONSIST OF 16.50±ACRES THAT ARE ZONED R-40.
  - WETLAND FLAGS DELINEATED BY AVIZINIS ENVIRONMENTAL SERVICES, INC. 2022.
  - OFF SITE BUILDING LOCATIONS ARE APPROXIMATE AND HAVE BEEN TAKEN FROM AERIAL PHOTOGRAPHY.
  - ABUTTING PROPERTY OWNS' TAKEN FROM PLANS OF RECORD.
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**LEGEND**

ABUTTER LINE	=====	BUILDING SETBACK LINE	-----122-----
LOT LINE	=====	EXISTING CONTOUR	x123.0
EDGE OF ROAD PAVEMENT	=====	EXISTING SPOT GRADE	-----
ROADWAY CENTERLINE	=====	PROPOSED LOT CONTOUR	-----
ROADWAY STATION	2+00	PROPOSED SPOT GRADE	x63.50
TEST HOLE	TH	DRAINAGE MANHOLE	DMH
PERC TEST	LT	HYDRANT	D
LEDGE TEST	LT	DRAIN LINE	W
UTILITY POLE	WF-A6 WF-A7	WATERLINE	OHW
WETLAND EDGE	-----	OVERHEAD WIRES	E
200' RIVER BUFFER ZONE	-----	UNDERGROUND ELECTRIC/TELE.	-----
20' STRUCTURE SETBACK	-----	SOIL BOUNDARY LINE	-----
EXISTING STONEWALL	-----	FEMA 100-YR FLOOD ZONE	-----
UNDERGROUND TELE/COMM	-----	CURB STOP	-----
		WATER VALVE	-----
		PROPOSED STONE WALL	-----

TIMOTHY J. BEHAN  
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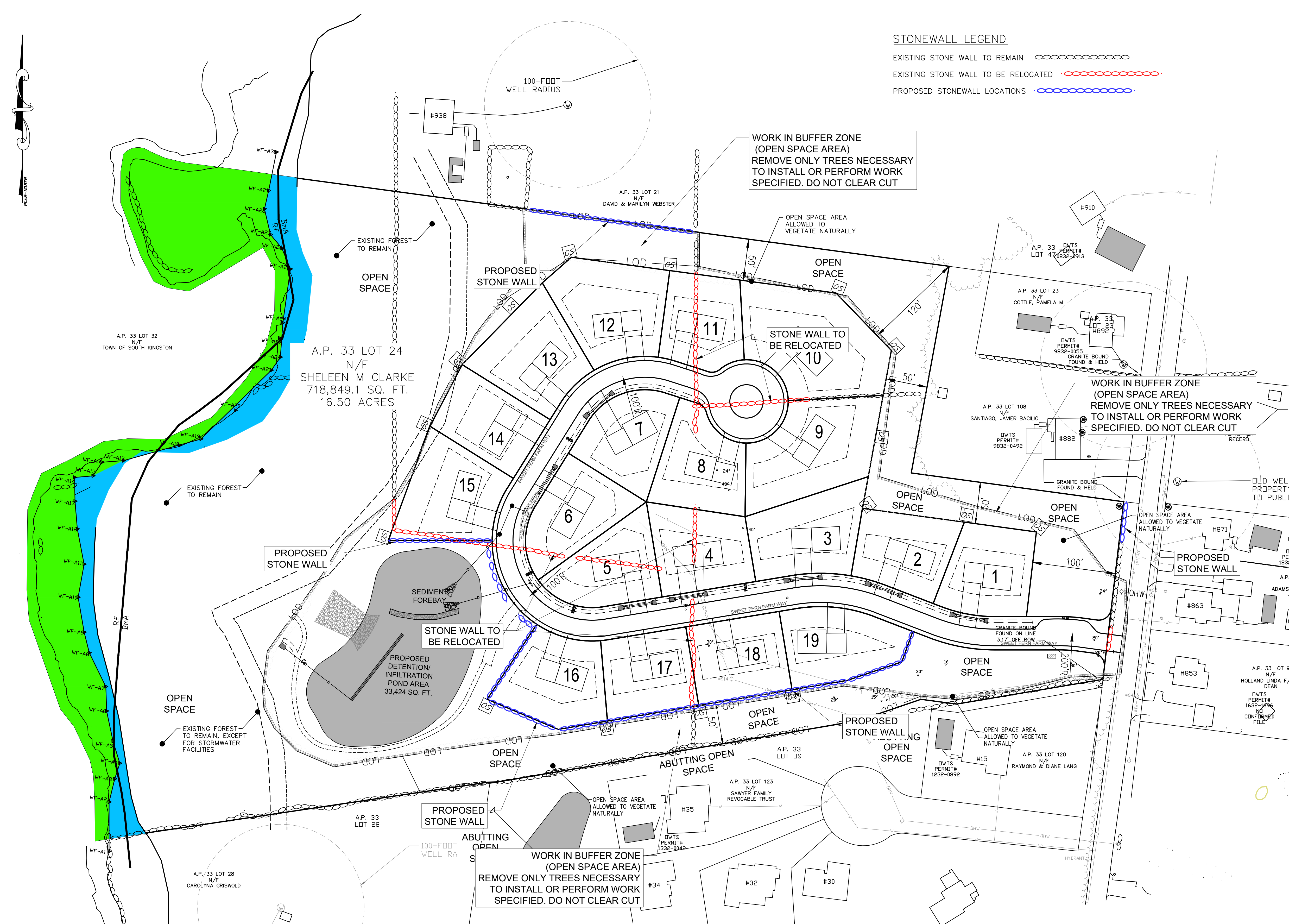
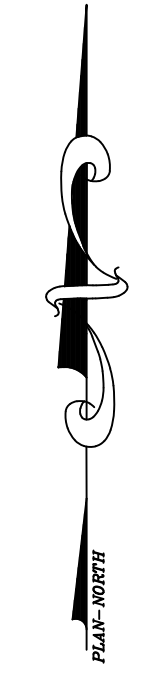
**COMMONWEALTH**  
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PROVIDENCE, RHODE ISLAND 02908  
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**REVISIONS**

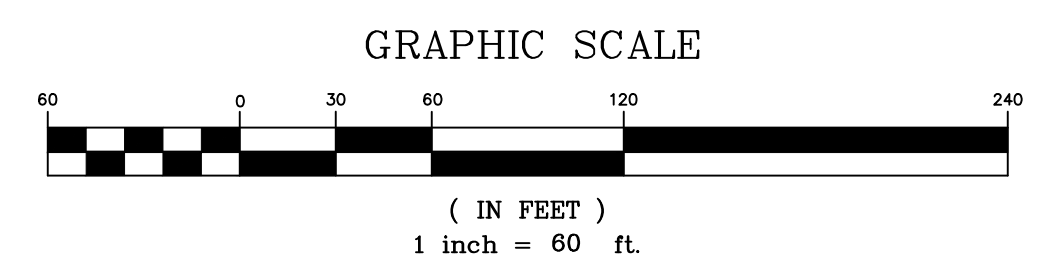
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2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
5	10/21/24	SMA	TB
6	11/24/24	SMA	TB
7	01/30/25	SMA	TB

PERMIT AGENCY REVIEW PLAN  
FOR  
VILLAGE AT BROAD ROCK  
PLAT 33, LOT 24  
ON  
BROAD ROCK ROAD  
SOUTH KINGSTOWN, RHODE ISLAND  
**PROPOSED ROADWAY PROFILE PLAN**

SCALE: AS SHOWN	SHEET NO: 8 OF 17	
DRAWN BY: SMA	DESIGN BY: SMA	CHECKED BY: TJB
DATE: FEBRUARY 2024	PROJECT NO: 23011.00	



- NOTES:**
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  - A SMALL PORTION OF SUBJECT SITE IS SITUATED IN FEMA 100-YR FLOOD ZONE 'A' AS DEPICTED ON MAP 44009C0201J, EFFECTIVE 4/3/2020. THE REMAINING PORTION OF THE SITE IS SITUATED IN ZONE 'X' WHICH IS AREA OF MINIMAL FLOOD HAZARD.
  - THERE IS NO EXISTING AGRICULTURAL USE ON THE SITE.
  - THE ENTIRE AND SURROUNDING PROPERTIES CONTAIN PRIME AGRICULTURAL SOILS AND FARMLAND SOILS OF IMPORTANCE, PROPERTY.
  - THERE ARE NO EXISTING STREETS, DRIVEWAYS, FARM ROADS, WOODS ROADS AND/OR TRAILS THAT HAVE BEEN IN PUBLIC USE.
  - THERE ARE NO HISTORIC CEMETERIES LOCATED ON OR ADJACENT TO THE SITE.
  - THE SITE IS LOCATED WITHIN A NATURAL HERITAGE AREA AS DEFINED BY RIDEM.
  - THE SITE IS NOT LOCATED WITHIN A DRINKING WATER RESERVOIR, GROUNDWATER RECHARGE AREA OR SOLE SOURCE AQUIFER AS DEFINED BY RIDEM.
  - THE SITE IS NOT LOCATED IN A CRMC SAMP AREA, A TOWN OF SOUTH KINGSTOWN GROUNDWATER PROTECTION OVERLAY DISTRICT OR AN OWTS CRITICAL RESOURCE AREA.
  - THE SITE AND ANY EXISTING BUILDINGS ON THE SITE ARE NOT LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES.
  - THE SAUGATUCKET RIVER HAS A TMDL FOR FECAL COLIFORM.



**PROPOSED STONEWALL PLAN**  
SCALE: 1" = 60'

**STONEWALL LEGEND**

- EXISTING STONE WALL TO REMAIN
- EXISTING STONE WALL TO BE RELOCATED
- PROPOSED STONEWALL LOCATIONS

WORK IN BUFFER ZONE (OPEN SPACE AREA) REMOVE ONLY TREES NECESSARY TO INSTALL OR PERFORM WORK SPECIFIED. DO NOT CLEAR CUT

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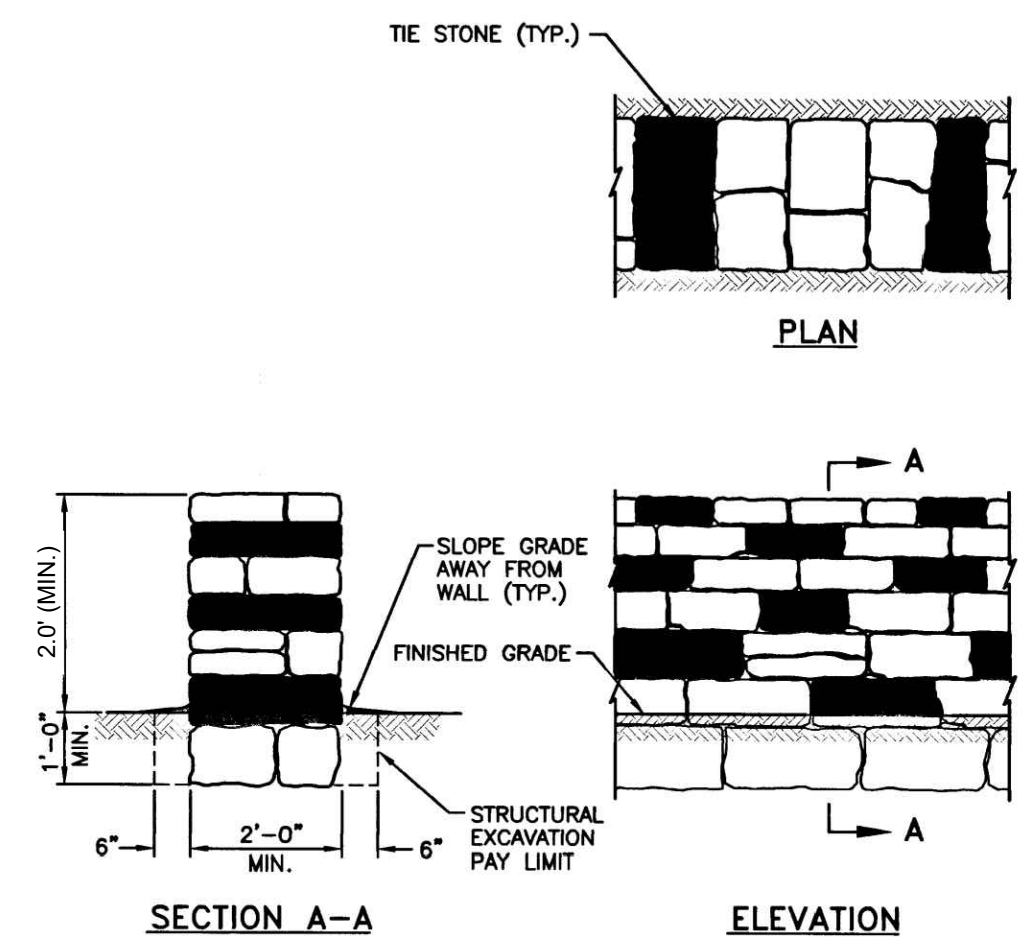
WORK IN BUFFER ZONE (OPEN SPACE AREA) REMOVE ONLY TREES NECESSARY TO INSTALL OR PERFORM WORK SPECIFIED. DO NOT CLEAR CUT

**LEGEND**

- ABUTTER LINE
- LOT LINE
- EDGE OF ROAD PAVEMENT
- ROADWAY CENTERLINE
- ROADWAY STATION
- TEST HOLE
- PERC TEST
- LEDGE TEST
- UTILITY POLE
- WETLAND EDGE
- 200' RIVER BUFFER ZONE
- 20' STRUCTURE SETBACK
- EXISTING STONEWALL
- UNDERGROUND TELE/COMM
- OPEN SPACE MARKER
- BUILDING SETBACK LINE
- EXISTING CONTOUR
- EXISTING SPOT GRADE
- PROPOSED LOT CONTOUR
- PROPOSED SPOT GRADE
- DRAINAGE MANHOLE
- HYDRANT
- DRAIN LINE
- WATERLINE
- OVERHEAD WIRES
- UNDERGROUND ELECTRIC/TELE.
- SOIL BOUNDARY LINE
- FEMA 100-YR FLOOD ZONE
- CURB STOP
- WATER VALVE
- PROPOSED STONE WALL

**STONE WALL NOTES:**

- EXISTING STONEWALL VARY FROM RUBBLE PILES TO 2-FEET WIDE AND 2-FEET TALL
- EXISTING STONE WALL TO BE RELOCATED = 936± FEET 936 FT. X 3 FT. X 2 FT.=5,616 CF. 5,616 CF. / 27 (CF./CY.)=208 CUBIC YARDS
- PROPOSED FEET OF REPLACEMENT STONE WALL= 991± FEET 991 FT. X 3 FT. X 2 FT.= 5,946 CF. 5,946 CF. / 27 (CF./CY.)=220 CUBIC YARDS
- ALL EXISTING STONE SHALL BE REUSED ON SITE. STONE REMOVED DURING SITE CONSTRUCTION WILL BE REUSED ON SITE. ADDITIONAL STONE WILL BE IMPORTED AS NEEDED.
- PROPOSED STONEWALLS HEIGHTS SHALL BE CONSTRUCTED TO MATCH THE HEIGHT OF EXISTING WALLS IN THE IMMEDIATE AREA.
- STONE QUANTITIES ASSUME 1.0 FT OF STONE BELOW GRADE AND AN AVERAGE 2.0 FT. ABOVE FINISH GRADE

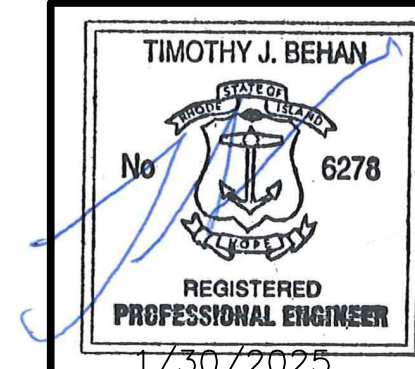


- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 912 OF THE R.I. STANDARD SPECIFICATIONS.
  - TIE STONES SHALL BE PLACED A MAXIMUM OF 4'-0" O.C.

**STONEWALL CONSTRUCTION DETAIL**  
NOT TO SCALE

**OWNER:**  
SHELEEN CLARKE  
96 DUCK COVE ROAD  
NORTH KINGSTOWN, RI 02852

**APPLICANT:**  
NEW ENGLAND PROPERTIES, LLC  
257 WICKFORD CT.  
NORTH KINGSTOWN, RI 02852



**REVISIONS**

No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
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7	01/30/25	SMA	TB

**PERMIT AGENCY REVIEW PLAN**  
FOR  
VILLAGE AT BROAD ROCK  
PLAT 33, LOT 24  
ON  
BROAD ROCK ROAD  
SOUTH KINGSTOWN, RHODE ISLAND  
**PROPOSED STONEWALL PLAN**

SCALE: AS SHOWN	SHEET NO: 9 OF 17	
DRAWN BY: SMA	DESIGN BY: SMA	CHECKED BY: TJB
DATE: FEBRUARY 2024	PROJECT NO: 23011.00	

TRAP #	TOTAL DEPTH (FT)	WATERSHED AREA (ACRES)	STORAGE VOLUME REQUIRED (CF)	1" OVER WATERSHED (CF)	WET STORAGE VOLUME (Vw) (CF)	Dw (FT)	Aw (SF)	Aw PROVIDED (SF)	DRY STORAGE VOLUME (Vd) (CF)	Dd (FT)	Ad (SF)	Ad PROVIDED (SF)
1	3	2.26	8,170	8,198	4,099	1.5	3,215	7,210	4099	1.5	9,082	9,205
2	3	1.59	5,756	5,775	2,887	1.5	2,265	4,785	2887	1.5	6,583	6,696
3A & 3B	3	1.64	5,922	5,942	2,971	1.5	2,300	5,144	2971	2.5	6,583	7,318
4A & 4B	3	1.53	5,532	5,551	2,775	1.5	2,177	5,144	2775	1.5	6,149	7,318
5	3	2.91	10,544	10,579	5,290	1.5	4,149	9,374	5290	1.5	11,720	12,084

Dw = THE MAXIMUM DEPTH FROM BOTTOM OF TRAP TO THE BASE OF THE STONE OUTLET  
 Dd = THE DEPTH FROM THE BASE OF THE STONE OUTLET TO THE TOP OF THE STONE OUTLET  
 Aw = THE SURFACE AREA OF THE FLOODED AREA AT THE BASE OF THE STONE OUTLET  
 Ad = THE SURFACE AREA OF THE FLOODED AREA AT THE TOP OF THE STONE OUTLET  
 STORAGE VOLUME REQUIRED = 134 CUBIC YARDS PER ACRE OR 1" OVER WATER SHED AREA, WHICH EVER IS GREATER

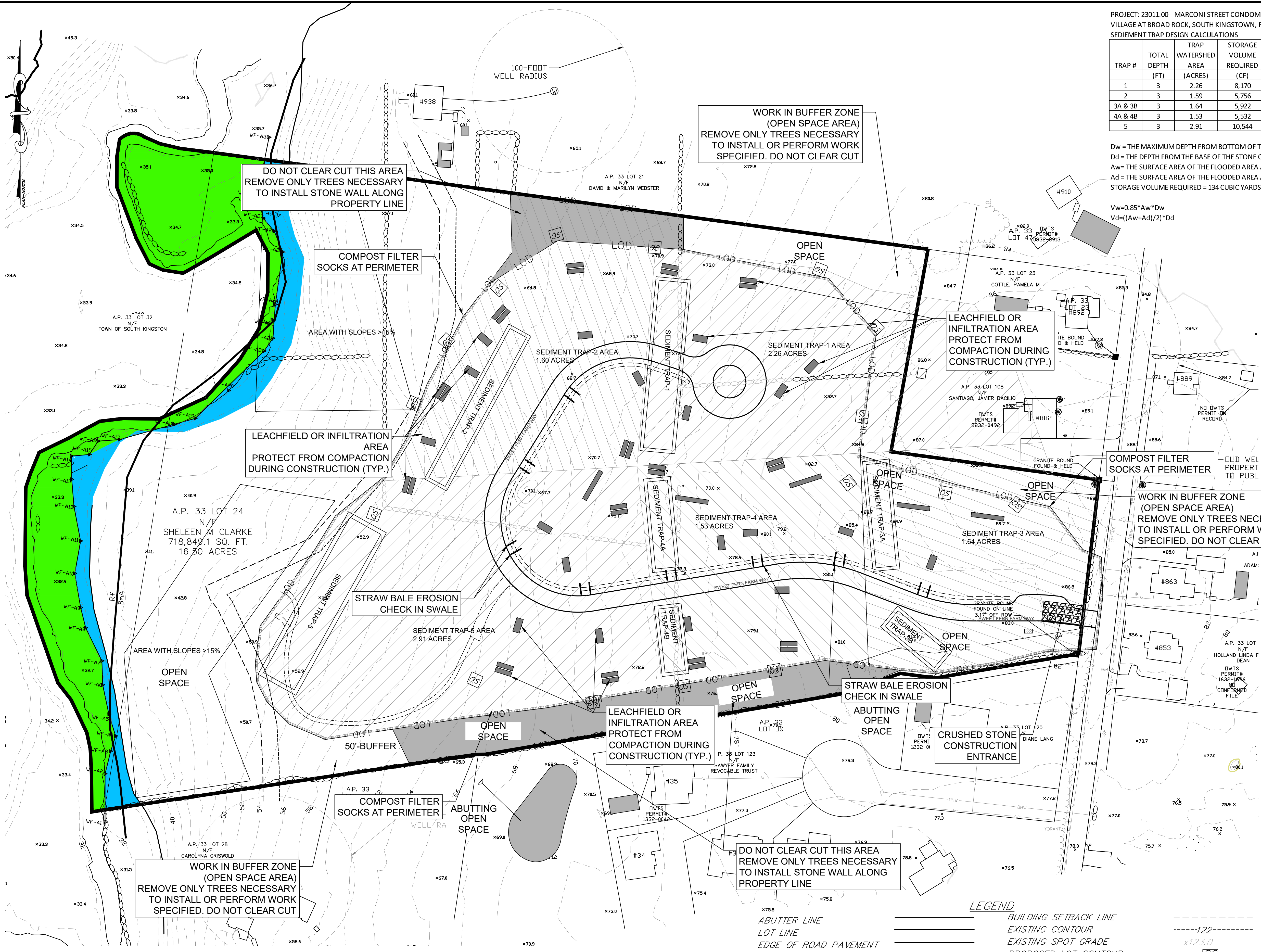
$Vw = 0.85 * Aw * Dw$   
 $Vd = ((Aw + Ad) / 2) * Dd$

LAND UNSUITABLE FOR DEVELOPMENT:  
 WETLANDS = 1.17 AC.  
 HIGH FLOOD DANGER ZONE = 0.45 AC.

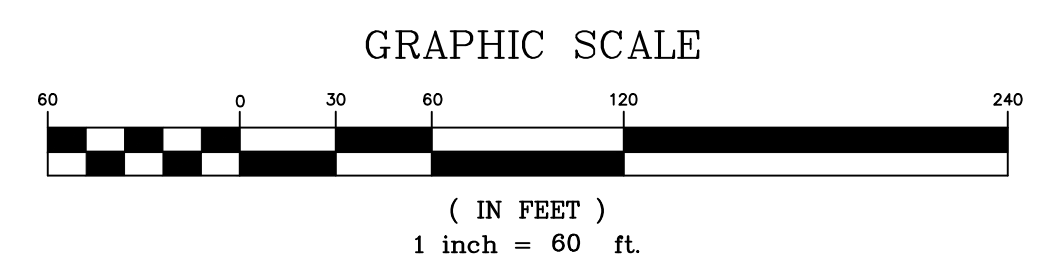
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  - ABUTTING PROPERTY OWITS "TAKEN FROM PLANS OF RECORD.
  - ELEVATIONS BASED ON NAVD88 VERTICAL DATUM.
  - A SMALL PORTION OF SUBJECT SITE IS SITUATED IN FEMA 100-YR FLOOD ZONE "A" AS DEPICTED ON MAP 44009C0201J, EFFECTIVE 4/3/2020. THE REMAINING PORTION OF THE SITE IS SITUATED IN ZONE "X" WHICH IS AREA OF MINIMAL FLOOD HAZARD.
  - THE Bm<sub>a</sub> SOIL TYPE IS CONSIDERED A "PRIME AGRICULTURAL SOIL".
  - THIS IS NOT A SURVEY BOUNDARY PLAN, REFER TO SURVEY PLAN AT THE REAR OF THE PLAN SET. SURVEY INFORMATION PROVIDED BY COMMONWEALTH LAND SURVEYORS, INC.

OWNER:  
 SHELEEN CLARKE  
 96 DUCK COVE ROAD  
 NORTH KINGSTOWN, RI 02852

APPLICANT:  
 NEW ENGLAND PROPERTIES, LLC  
 257 WICKFORD CT.  
 NORTH KINGSTOWN, RI 02852



- SESC NOTES:
- CONTRACTOR TO DETERMINE SOIL STOCK PILE AREAS.
  - CONTRACTOR TO DETERMINE CONCRETE WASHOUT AREAS.
  - EXISTING TOPSOIL (LOAM) SHALL BE REUSED ON SITE TO THE EXTENT PRACTICAL.
  - INSTALL ADDITIONAL COMPOST FILTER SOCKS ON SITE AS NEEDED AND AS SHOWN IN THE DETAIL ON SHEET 10.



**SOIL EROSION AND SEDIMENT CONTROL PLAN**

LEGEND

---	BUILDING SETBACK LINE	---	UNDERGROUND ELECTRIC/TELE.
---	EXISTING CONTOUR	---	SOIL BOUNDARY LINE
---	EXISTING SPOT GRADE	---	FEMA 100-YR FLOOD ZONE
---	PROPOSED LOT CONTOUR	---	CURB STOP
---	PROPOSED SPOT GRADE	---	WATER VALVE
---	DRAINAGE MANHOLE	---	PROPOSED STONE WALL
---	HYDRANT	---	
---	DRAIN LINE	---	
---	WATERLINE	---	
---	OVERHEAD WIRES	---	
---	200' RIVER BUFFER ZONE	---	
---	20' STRUCTURE SETBACK	---	
---	EXISTING STONEMALL	---	
---	UNDERGROUND TELE/COMM	---	
---	ABUTTER LINE	---	
---	LOT LINE	---	
---	EDGE OF ROAD PAVEMENT	---	
---	ROADWAY CENTERLINE	---	
---	ROADWAY STATION	---	
---	TEST HOLE	---	
---	PERC TEST	---	
---	LEDGE TEST	---	
---	UTILITY POLE	---	
---	WETLAND EDGE	---	
---	OPEN SPACE MARKER	---	

TIMOTHY J. BEHAN  
 No. 6278  
 REGISTERED PROFESSIONAL ENGINEER  
 1/30/2025

**COMMONWEALTH ENGINEERS & CONSULTANTS, INC.**  
 400 SMITH STREET  
 PROVIDENCE, RHODE ISLAND 02908  
 (401) 273-6600

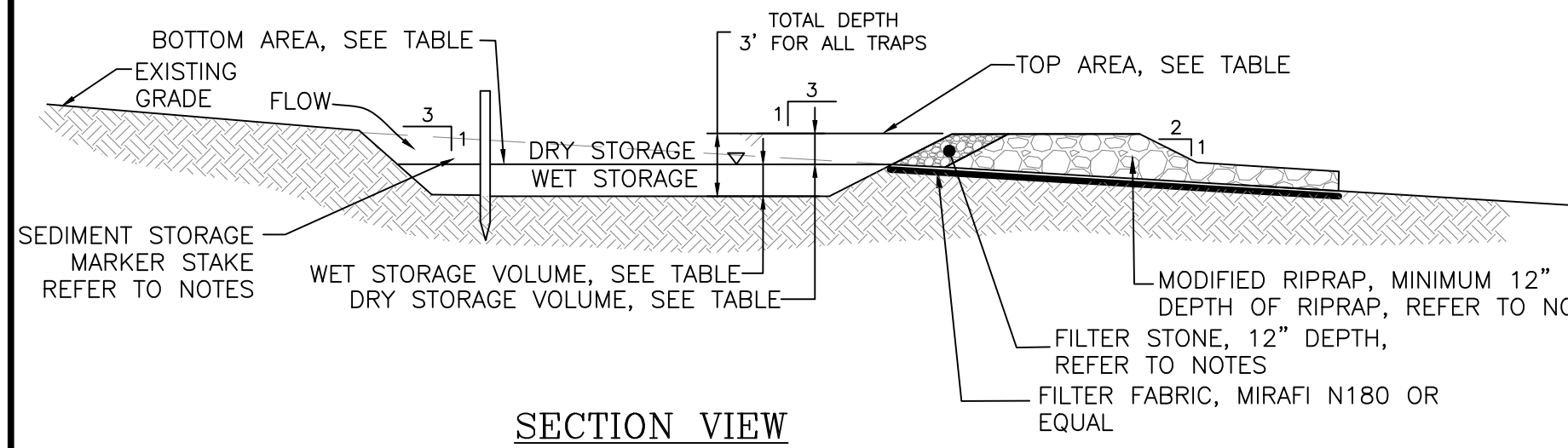
REVISIONS

No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
5	10/21/24	SMA	TB
6	11/24/24	SMA	TB
7	01/30/25	SMA	TB

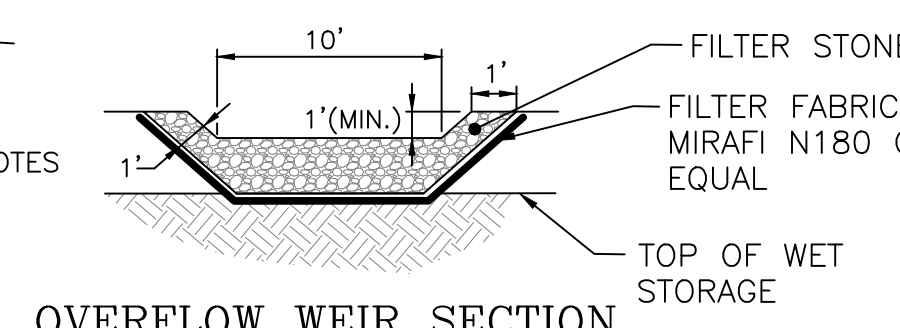
PERMIT AGENCY REVIEW PLAN  
 FOR  
 VILLAGE AT BROAD ROCK  
 PLAT 33, LOT 24  
 ON  
 BROAD ROCK ROAD  
 SOUTH KINGSTOWN, RHODE ISLAND  
**SOIL EROSION AND SEDIMENT CONTROL PLAN**

SCALE: AS SHOWN SHEET NO: 10 OF 17  
 DRAWN BY: SMA DESIGN BY: SMA CHECKED BY: TJB  
 DATE: FEBRUARY 2024 PROJECT NO: 23011.00

## SEDIMENT TRAP DETAILS



SECTION VIEW



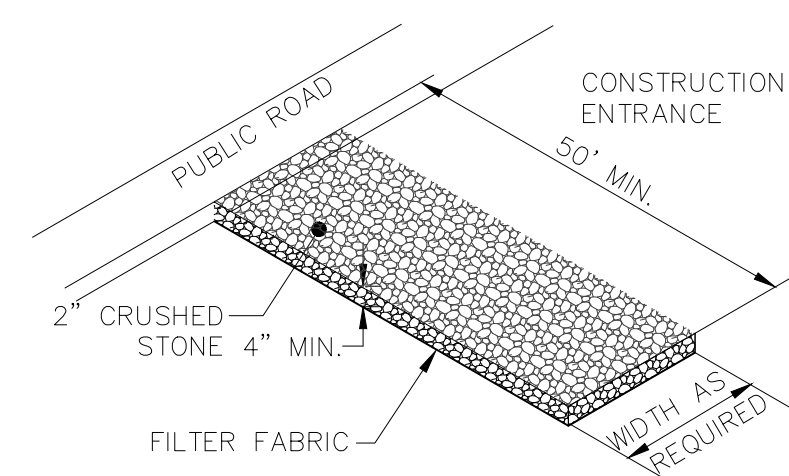
OVERFLOW WEIR SECTION

### GENERAL NOTES:

1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES.
2. THE TEMPORARY SEDIMENT TRAP SHALL HAVE AN INITIAL STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE OUTLET SHALL BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
5. THE OUTLET CONSISTS OF A PERVIOUS STAKE DIKE WITH A CORE OF MODIFIED RIP RAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
6. TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
7. MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO FIVE FEET.
8. SIDE SLOPES OF THE EMBANKMENT SHALL BE 2:1 OR FLATTER.
9. MODIFIED RIP RAP SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2 AND BE R-4 GRADE RIPRAP.
10. FILTER STONE SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE 1 COLUMN V FILTER STONE.

### INSTALLATION NOTES:

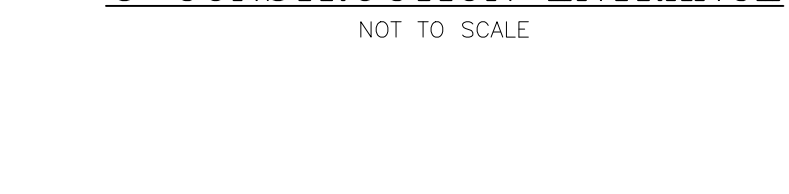
1. CLEAR GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN 3 INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9 INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATION COVER, SEEDING FOR PERMANENT VEGETATIVE COVER, OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.



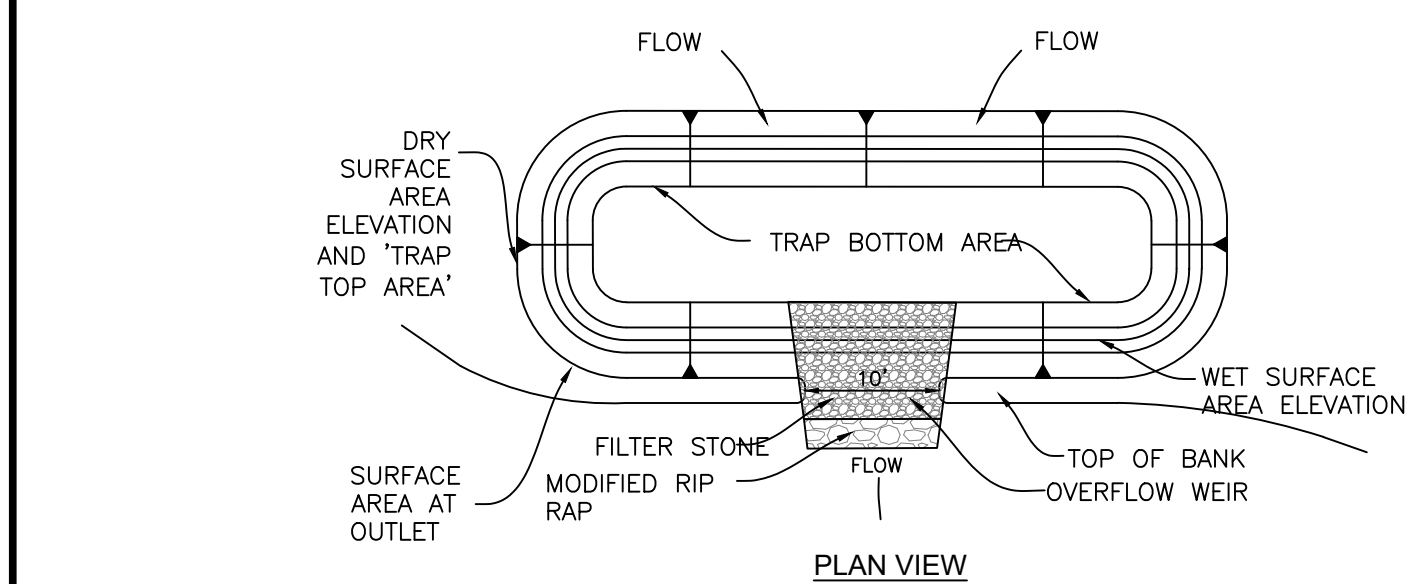
MATERIALS SIZE			
SQUARE MESH SIEVES	2" CRUSHED STONE OR GRAVEL	ASTM C-33 NO. 2	ASTM C-33 NO. 3
	% FINER	% FINER	% FINER
2-1/2 INCHES	100	90-100	100
2 INCHES	95-100	35-70	90-100
1-1/2 INCHES	30-55	0-15	35-70
1-1/4 INCHES	0-25	-	-
1 INCH	0-5	-	0-15
3/4 INCH	-	0-5	-
1/2 INCH	-	-	0-5
3/8 INCH	-	-	-

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

### RIP-RAP STABILIZATION PAD @ CONSTRUCTION ENTRANCE



### CONCRETE WASHOUT



3' DEPTH TEMPORARY SEDIMENT TRAP DETAIL

### INSPECTION, MAINTENANCE AND REMOVAL REQUIREMENTS:

1. INSTALL SEDIMENT STORAGE STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OF CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

### EROSION CONTROL AND SOIL STABILIZATION PROGRAM:

1. TEMPORARY TREATMENTS SHALL CONSIST OF A STRAW, FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
2. STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2000 LBS/ACRE.
3. ALL STRAW BALES OR TEMPORARY PROTECTION SHALL REMAIN IN-PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
4. 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 WITH RHODE ISLAND STANDARD SPECIFICATION M.20.01, AS AMENDED.
5. THE SEED MIX SHALL BE INOCULATED WITHIN 24-HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
6. THE DESIGN MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDDED SHALL BE COMPRISED OF THE FOLLOWING:
 

TYPE	% BY WEIGHT	SEEDING DATE	CREeping RED
FESCUE	70	APRIL 1 - JUNE 15	
ASTORIA BENTGRASS	5	AUGUST 15 - OCT.	
BIRDFOOT TREFFOIL	15		
PERENNIAL RYEGRASS	10		
APPLICATION RATE	100 LBS/ACRE		
LIMING AND FERTILIZING AS REQUIRED TO COMPLIMENT OR EXISTING CONDITIONS.			UPGRADE
7. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR, AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
8. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
9. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
10. STOCKPILES OF TOPSOIL AND EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%) AND STOCKPILE SHALL ALSO BE SEEDDED AND/OR STABILIZED.
11. ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
12. TREES TO BE RETAINED SHALL BE FENCED OR ROPED OFF TO PROTECT THEM FROM CONSTRUCTION EQUIPMENT.
13. ALL PROPOSED PLANTINGS MUST BE ACCOMPLISHED AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION, AND AT LEAST PRIOR TO ANY ON-SITE OCCUPANCY.
14. ALL PROPOSED PLANTINGS MUST BE MAINTAINED BY THE PROPERTY OWNER TO ENSURE SURVIVAL.
15. SHOULD ANY OR ALL OF THE PROPOSED PLANTS FAIL TO SURVIVE AT LEAST ONE (1) FULL GROWING SEASON FROM THE TIME THEY HAVE BEEN PLANTED, THE OWNER SHALL BE FULLY RESPONSIBLE FOR REPLACING AND MAINTAINING THE SAME PLANT SPECIES FOR ONE (1) ADDITIONAL GROWING SEASON.
16. ALL DISTURBED AREAS MUST BE SEEDDED OR PLANTED WITHIN THE CONSTRUCTION SEASON.
17. TEMPORARY SEEDING MUST BE DONE WITHIN ONE (1) MONTH AFTER DISTURBANCE.
18. ALL DISTURBED AREAS MUST BE PERMANENTLY SEEDDED OR PLANTED BEFORE OCTOBER 1ST, IF NOT THEY MUST BE TEMPORARILY SEEDDED.
19. SLOPES CONSTRUCTED AT, OR STEEPER THAN, 15% SHALL HAVE TEMPORARY EROSION CONTROL MATTING UTILIZED AS A SUPPORTIVE METHOD IN ADDITION TO THE METHODS DESCRIBED ABOVE.
20. ALL PROPOSED INLETS AND OUTLETS SHALL BE PROTECTED WITH RIPRAP BOTH TEMPORARILY AND PERMANENTLY. SEE DETAIL.
21. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE CITY SUBDIVISION REGULATIONS AND ZONING ORDINANCES, RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL DEC. 2010 AS PREPARED BY THE RIDEM AND CRMC; AND RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK AS PREPARED BY RHODE ISLAND STATE CONSERVATION COMMITTEE, REVISED 2014, (AS REVISED).
22. INFILTRATION PRACTICES SHALL NEVER SERVE AS A SEDIMENT CONTROL DEVICE DURING SITE CONSTRUCTION PHASE. GREAT CARE MUST BE TAKEN TO PREVENT ANY INFILTRATION AREA FROM COMPACTION BY MARKING OFF THE LOCATION BEFORE THE START OF

CONSTRUCTION AT THE SITE AND CONSTRUCTING THE INFILTRATION PRACTICE LAST, CONNECTING UPSTREAM DRAINAGE AREAS ONLY AFTER CONSTRUCTION IS COMPLETE, AND THE CONTRIBUTING AREA IS STABILIZED. THE CONTRACTOR SHALL SUBMIT A PLAN TO THE TOWN (FOR APPROVAL) HOW SEDIMENT WILL BE PREVENTED FROM ENTERING THE SITE OF AN INFILTRATION FACILITY.

EXTREME CARE SHALL BE EXERCISED AS TO PREVENT ANY MATERIALS FROM ENTERING WETLANDS, THE ROADWAYS, ROADWAY DRAINAGE SYSTEMS, AND ADJACENT PROPERTY. STAKED STRAW BALES OR SILT FENCE SHALL BE INSTALLED WHERE SHOWN ON THE PLAN AND AS REQUIRED TO PREVENT SEDIMENTATION ONTO ADJACENT PROPERTIES, WETLANDS AND THE ROADWAY DRAINAGE SYSTEM.

DENuded SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR MORE THAN 2 WEEKS OF TIME OR FOR THE INACTIVE WINTER SEASON.

NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR STRAW MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE RI. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION. IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING. PREPARE TEMPORARY SEEDING AREA, PROVIDE AND PLANT SEED IN ACCORDANCE WITH "RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK" AS PREPARED BY THE RHODE ISLAND STATE CONSERVATION COMMITTEE, REVISED 2014, (AS REVISED).

SEED MIX:  
ANNUAL RYE GRASS 1.5 LBS/1,000 SQ. FT.

TEMPORARY TREATMENTS TO STABILIZE EXPOSED SOILS SHALL CONSIST OF STRAW OR FIBER MULCH OR PROTECTIVE COVERS, SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK WHEN SOILS ARE EXPOSED FOR TWO WEEKS OR MORE OR AS ORDERED BY THE TOWN, ENGINEER OR OWNER AT NO ADDITIONAL COST.

STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 3,000-4,000 LBS/ACRE.

ALL NEW STRAW BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND POTENTIAL SEDIMENTATION SOURCES ARE REMOVED.

STOCKPILES SHALL HAVE NO SLOPE GREATER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED STRAW BALES OR SILT FENCE. STOCKPILES EXPOSED FOR EXCESSIVE PERIODS OF TIME SHALL RECEIVE TEMPORARY TREATMENT CONSISTING OF PLANTING ANNUAL RYE GRASS OR PROTECTING WITH STRAW OR FIBER MULCH.

DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE AS NEEDED.

ADDITIONAL STRAW BALES/SILT FENCE OR OTHER TREATMENTS SHALL BE PROVIDED AS DIRECTED BY ENGINEER, RIDEM OR LOCAL REPRESENTATIVES AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL INSPECT THE SOIL EROSION CONTROL DEVICES AFTER EVERY RAIN STORM EVENT AND EVERY 7 DAYS (WHICH EVER COMES FIRST). ANY SOIL MIGRATION PAST THE DEVICES SHALL BE REMOVED AND THE SOIL EROSION CONTROL DEVICES SHALL BE RE-ESTABLISHED TO PREVENT SOIL EROSION. ALL ACCUMULATED SEDIMENT IN FRONT OF THE DEVICES SHALL BE REMOVED AFTER EVERY RAIN STORM EVENT.

ALL DISTURBED SOIL AREAS SHALL BE PROTECTED AGAINST SOIL EROSION BY PLACEMENT OF STRAW BALES AND/OR SILT FENCE ON THE DOWN GRADIENT SIDE OF THE DISTURBED AREAS. SHOULD THE VOLUME AND/OR RATE OF STORMWATER RUNOFF BE TOO GREAT FOR A SINGLE DEVICE, THEN MULTIPLE DEVICES ARE REQUIRED SUCH AS SILT FENCE BACKED-UP WITH STRAW BALES. THESE ADDITIONAL DEVICES ARE NOT SHOWN ON THE PLAN BUT SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

AT THE END OF THE PROJECT ALL SEDIMENT IN MANHOLE SUMPS SHALL BE REMOVED.

### MATERIAL STOCKPILE DETAIL



### STOCKPILE NOTES:

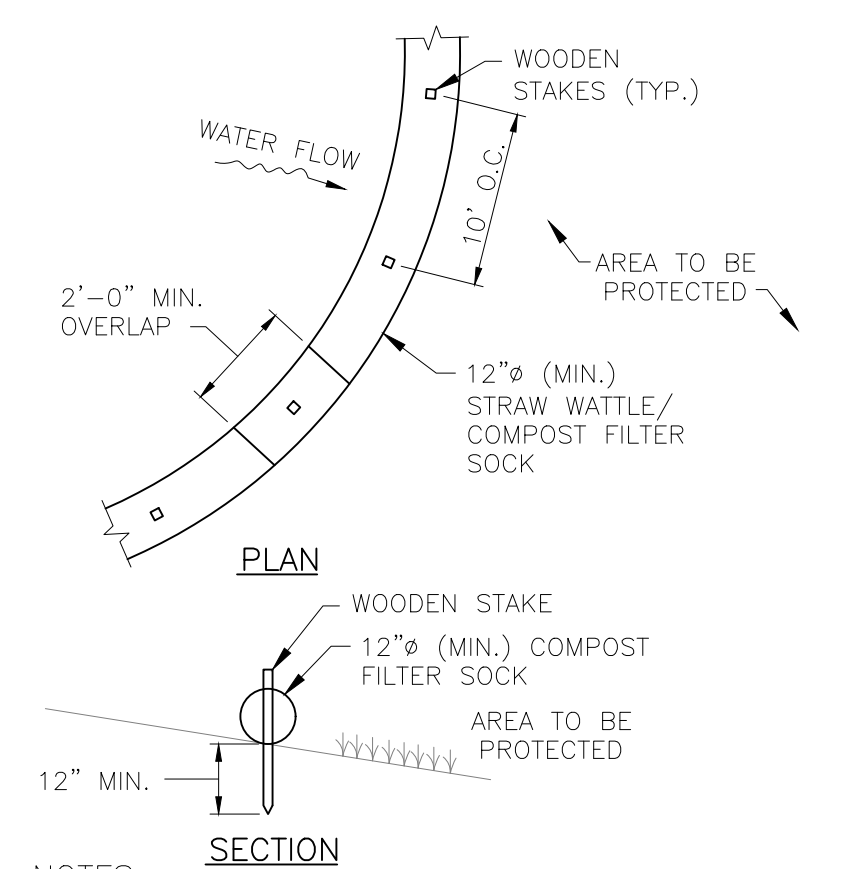
1. COVERINGS MUST BE SECURED AND INSPECTED DAILY AND REPAIRED/REPLACED AS NEEDED.
2. WORKING ENTRANCE TO STOCKPILE SHALL BE ON THE UP-GRADE SIDE OF THE STOCK PILE.
3. PERIMETER EROSION CONTROLS SHALL BE INSPECTED DAILY AND REPAIRED/REPLACED AS NEEDED.
4. CONTRACTOR TO DETERMINE STOCKPILE LOCATIONS.

### STORMWATER INFILTRATION PRACTICES

1. STORMWATER INFILTRATION MEASURES ARE HEAVILY RELIANT ON THE INFILTRATION CAPACITY OF THE UNDERLYING IN-SITU SOILS FOR THEIR PROPER FUNCTION AND LONGEVITY. OVER-COMPACTION OF UNDERLYING SOILS WILL COMPROMISE THE EFFECTIVENESS OF SUCH PRACTICES.
2. THE CONTRACTOR SHALL TAKE ALL DUE CARE TO PREVENT OVER-COMPACTION OF UNDERLYING SOILS IN AREAS OF PROPOSED STORMWATER INFILTRATION MEASURES, BY MARKING OFF THE LOCATION BEFORE THE START OF CONSTRUCTION AND CONSTRUCTING THE INFILTRATION PRACTICE LAST, CONNECTING UPSTREAM DRAINAGE AREAS ONLY AFTER CONSTRUCTION IS COMPLETE AND THE CONTRIBUTING AREA IS STABILIZED.
3. INFILTRATION PRACTICES SHALL NEVER SERVE AS SEDIMENT CONTROL DEVICES DURING THE SITE CONSTRUCTION PHASE. THE CONTRACTOR SHALL SUBMIT A PLAN TO THE DESIGNATED AUTHORITY (FOR APPROVAL) INDICATING HOW SEDIMENT WILL BE PREVENTED FROM ENTERING THE AREA OF AN INFILTRATION FACILITY.
4. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED DOWN TO NATIVE UNDISTURBED MATERIAL PRIOR TO CONSTRUCTING THE FINAL INFILTRATION PRACTICES.
5. IF NECESSARY OR DIRECTED, THE CONTRACTOR SHALL RESTORE THE INFILTRATION CAPACITY OF ALL COMPACTED IN-SITU SOILS BENEATH INFILTRATION MEASURES BY TILLING OR SCARIFYING COMPACTED SOILS TO A MINIMUM DEPTH OF 18" BENEATH THE BOTTOM OF THE PROPOSED INFILTRATION MEASURE.
6. THE DESIGNATED AUTHORITY MAY REQUIRE THE CONTRACTOR TO PERFORM, AT ITS SOLE EXPENSE, INFILTRATION TESTING OF THE IN-SITU SUBGRADE SOILS PRIOR TO INSTALLATION OF THE INFILTRATION PRACTICE TO DEMONSTRATE THAT THE NECESSARY SOIL INFILTRATION CAPACITY WILL BE PROVIDED BY THE UNDERLYING SOILS.

### SUGGESTED SEQUENCE & STAGING OF WORK:

1. NOTIFY RIDEM AND THE TOWN PRIOR TO THE START OF EARTH DISTURBING ACTIVITIES (REFER TO THE SPECIFIC NOTIFICATION REQUIREMENTS FOR EACH ENTITY).
  2. SURVEY AND STAKE LIMITS OF DISTURBANCE FOR PLACEMENT OF PERIMETER SESC MEASURES.
  3. PERFORM LIMITED VEGETATIVE CLEARING (BUT NOT GRUBBING) SUFFICIENT FOR THE INSTALLATION OF PERIMETER SESC MEASURES, AND INSTALL PERIMETER SESC MEASURES. IN NO CASE SHALL THE LIMIT OF WORK EXTEND BEYOND SAID PERIMETER MEASURES.
  4. CONSTRUCT CONSTRUCTION ENTRANCE PAD FROM BROAD ROCK ROAD.
  5. CLEAR AND GRUB PROPOSED COMMON DRIVEWAY AREA WITHIN THE LIMIT OF DISTURBANCE AND PROPOSED TEMPORARY SEDIMENTATION BASIN (TSB) AREAS, AND SURVEY OFF-DRIVEWAY STAGING/STORAGE AREAS FOR MATERIAL STOCKPILES, VEHICLES AND EQUIPMENT. MINIMIZE CLEARING & GRUBBING OF OFF-DRIVEWAY AREAS TO THE EXTENT PRACTICABLE.
  6. CONSTRUCT TEMPORARY SEDIMENT BASIN (TSB) AND EARTH BERMS THAT SHALL FEED TO THE TSB. ENSURE THAT ALL BASIN AND WATERWAY SURFACES ARE ADEQUATELY STABILIZED PRIOR TO START OF COMMON DRIVEWAY/UTILITY CONSTRUCTION.
  7. ROUGH-GRADE PROPOSED COMMON DRIVEWAY TO PROPOSED SUBBASE ELEVATIONS. INSTALL PROPOSED STORM DRAINAGE COLLECTION, CONVEYANCE SYSTEMS. ENSURE THAT NO RUNOFF FROM UNSTABILIZED AREAS ENTERS THE NEW DRAINAGE SYSTEM. INSTALL BALED STRAW SEDIMENTATION CHECKS IN GRASSED SWALES.
  8. INSTALL AND PRESSURE-TEST PROPOSED PRIVATE WATER SYSTEM PIPING, FITTINGS AND APPURTENANCES.
  9. INSTALL COMMON DRIVEWAY GRAVEL BASE COURSE; ALLOW TO WEATHER FOR NINETY SIXTY (60) DAYS AFTER COMPLETION OF UTILITY (STORM DRAINAGE & WATER) WORK.
  10. FINE-GRADE AND COMPACT GRAVEL BASE COURSE AFTER WEATHERING PERIOD AND INSTALL COMMON DRIVEWAY BITUMINOUS CONCRETE PAVEMENT BASE COURSE.
  11. REMOVE TEMPORARY SEDIMENT TRAPS & EARTH BERMS AS THE SITE DEVELOPS AND IS STABILIZED.
  12. CONSTRUCT STORMWATER INFILTRATION POND AND STABILIZE.
  13. CONSTRUCT PROPOSED DWELLING UNITS AND ASSOCIATED SITE FEATURES (E.G. INDIVIDUAL PAVED DRIVEWAYS, ROOF DRAIN INFILTRATION UNITS, OWTS, OFF-ROAD GRADING & LANDSCAPING).
  14. DWELLING CONSTRUCTION MAY BE PHASED OVER MULTIPLE CONSTRUCTION SEASONS; MAINTAIN AND ADJUST INTERIOR SESC MEASURES AS APPROPRIATE DURING ALL PHASES OF THIS CONSTRUCTION, IN ACCORDANCE WITH THE SESC PLAN.
  15. INSTALL COMMON DRIVEWAY BITUMINOUS CONCRETE SURFACE COURSE.
  16. CLEAN OUT ALL DRAINAGE STRUCTURES AS NEEDED, REMOVE AND LEGALLY DISPOSE ALL ACCUMULATED SEDIMENT IN A SUITABLE OFF-SITE LOCATION.
  17. UPON COMMENCEMENT OF SITE CONSTRUCTION ACTIVITIES, THE OPERATOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. SUCH TEMPORARY OR PERMANENT SOIL STABILIZATION MEASURES MUST BE INSTALLED PRIOR TO INITIATING LAND DISTURBANCE IN SUBSEQUENT PHASES.
  18. ROUTINE INSPECTION AND MAINTENANCE AND/OR MODIFICATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES WHILE EARTHWORK IS ONGOING IS REQUIRED.
  19. FINAL SITE STABILIZATION OF ANY DISTURBED AREAS AFTER EARTHWORK HAS BEEN COMPLETED AND REMOVAL OF TEMPORARY EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES.
- NOTE: THE DEVELOPER MAY MODIFY THE PRECEDING SUGGESTED SEQUENCE OF CONSTRUCTION IF NECESSARY OR PRACTICAL, SO LONG AS THE INTENT OF THE SESC PLAN IS MET AT ALL TIMES.



SECTION

- NOTES:
1. ALL MATERIAL TO MEET REQUIREMENTS OF SECTION 206 OF RI STANDARD SPECIFICATIONS.
  2. SUBMIT SHOP DRAWING OF COMPOST MATERIAL FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT.
  3. COMPOST FILTER SOCK IS AN APPROVED "OR EQUAL" TO COMPOST FILTER BERM WHEN INSTALLED IN ACCORDANCE WITH THE TABLE BELOW:

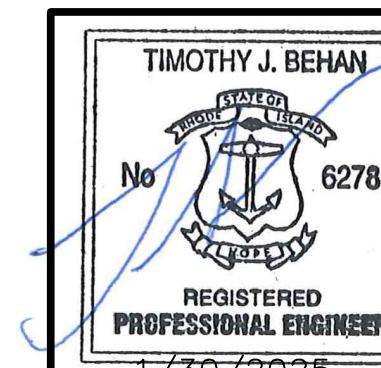
MAXIMUM LENGTH ABOVE COMPOST FILTER SOCK (FEET) AND CORRESPONDING DIAMETER OF SOCK REQUIRED:

UPGRADE SLOPE	8"ø	12"ø	18"ø	24"ø
2%	300'	375'	500'	650'
5%	200'	250'	275'	325'
10%	100'	125'	150'	200'
20%	50'	65'	70'	130'
30%	30'	40'	45'	85'
40%	30'	40'	45'	50'
50%	20'	25'	30'	35'

### STRAW WATTLE/COMPOST FILTER SOCK

OWNER:  
SHELEEN CLARKE  
96 DUCK COVE ROAD  
NORTH KINGSTOWN, RI 02852

APPLICANT:  
NEW ENGLAND PROPERTIES, LLC  
257 WICKFORD CT.  
NORTH KINGSTOWN, RI 02852

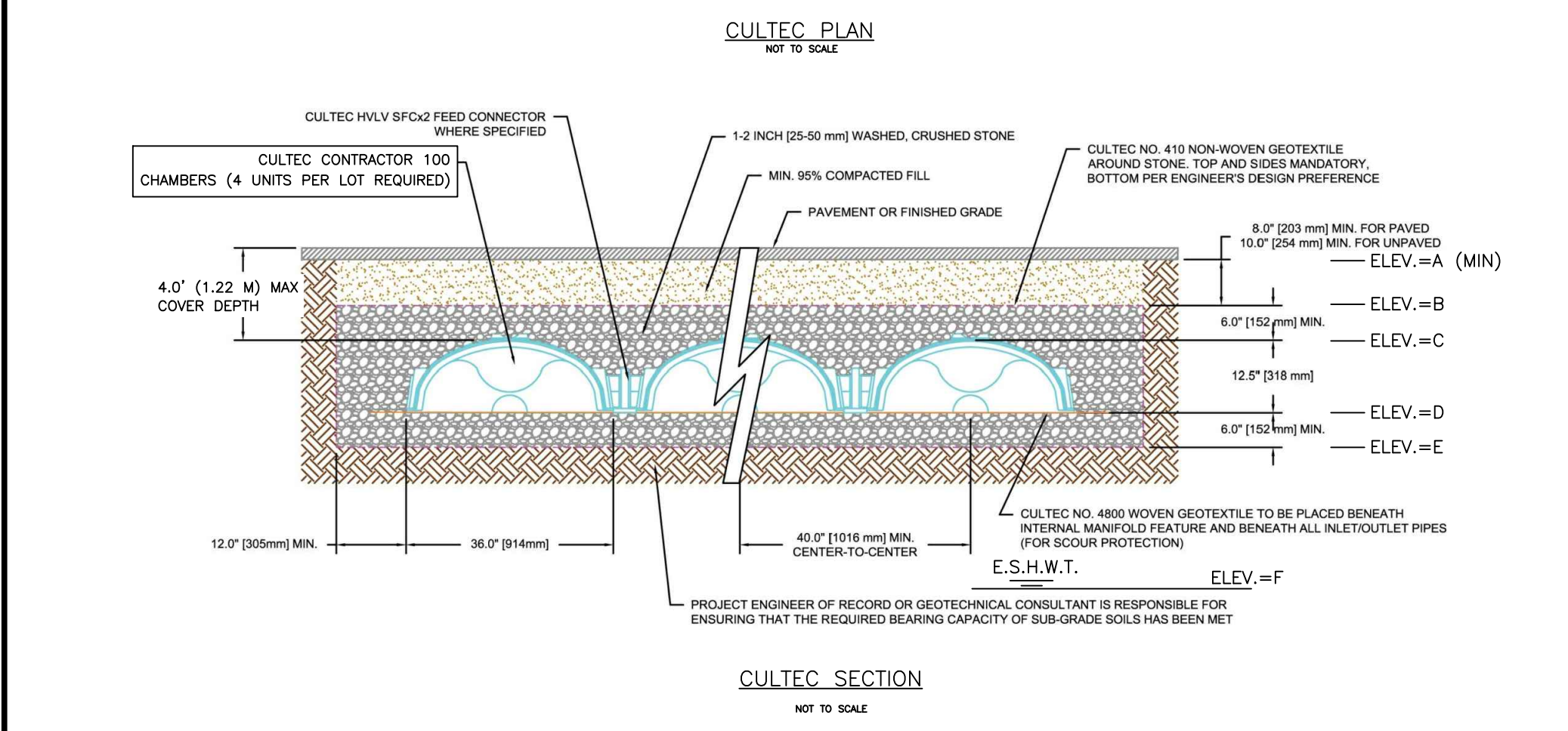
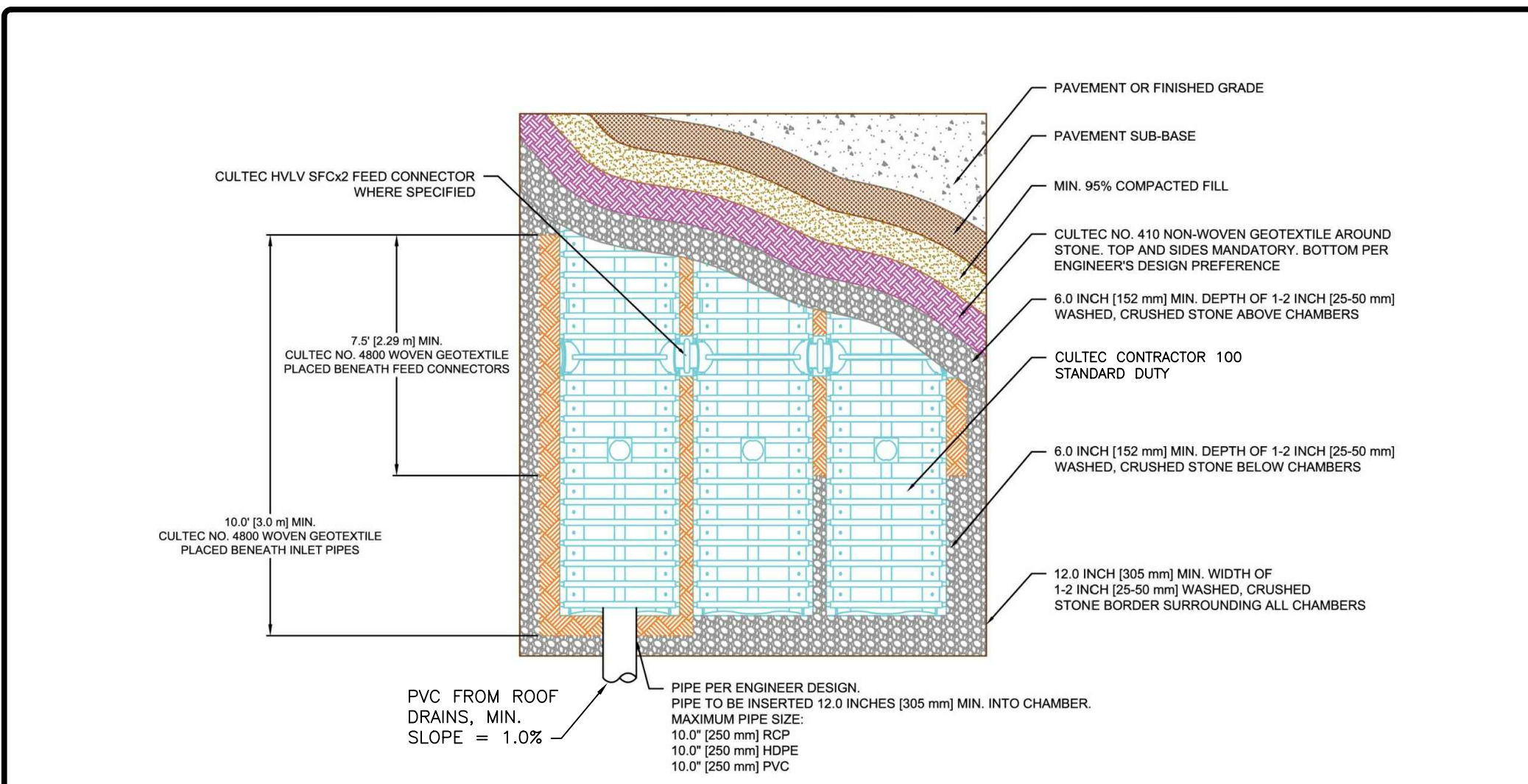


REVISIONS			
No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
5	10/21/24	SMA	TB
6	11/24/24	SMA	TB
7	01/30/25	SMA	TB



PERMIT AGENCY REVIEW PLAN  
FOR  
VILLAGE AT BROAD ROCK  
PLAT 33, LOT 24  
ON  
BROAD ROCK ROAD  
SOUTH KINGSTOWN, RHODE ISLAND  
SOIL EROSION AND SEDIMENT CONTROL DETAILS

SCALE: AS SHOWN SHEET NO: 11 OF 17  
DRAWN BY: SMA DESIGN BY: SMA CHECKED BY: TJB  
DATE: FEBRUARY 2024 PROJECT NO: 23011.00



ROOF INFILTRATION SYSTEM DETAILS & NOTES

- NOTE:
- REMOVE ALL LEDGE WITHIN 5' OF BOTTOM OF SYSTEM, IF APPLICABLE.
  - KEEP CHAMBER FIELD AT LEAST 15' OFF SEPTIC DRAIN FIELD, 10' OFF BASEMENTS (UNLESS LOCATED BELOW SLAB ELEVATION) AND 50 FEET OFF WELLS.

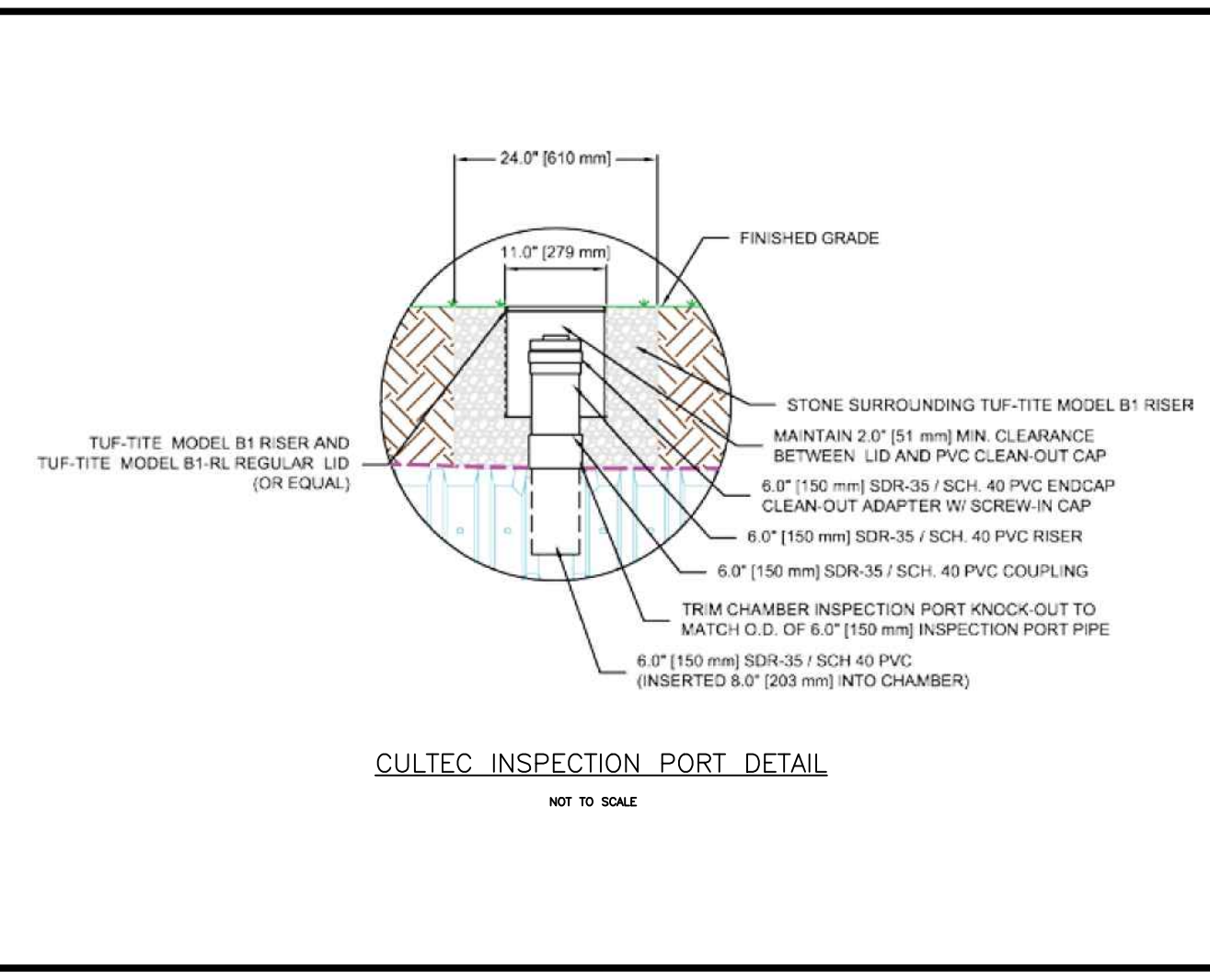
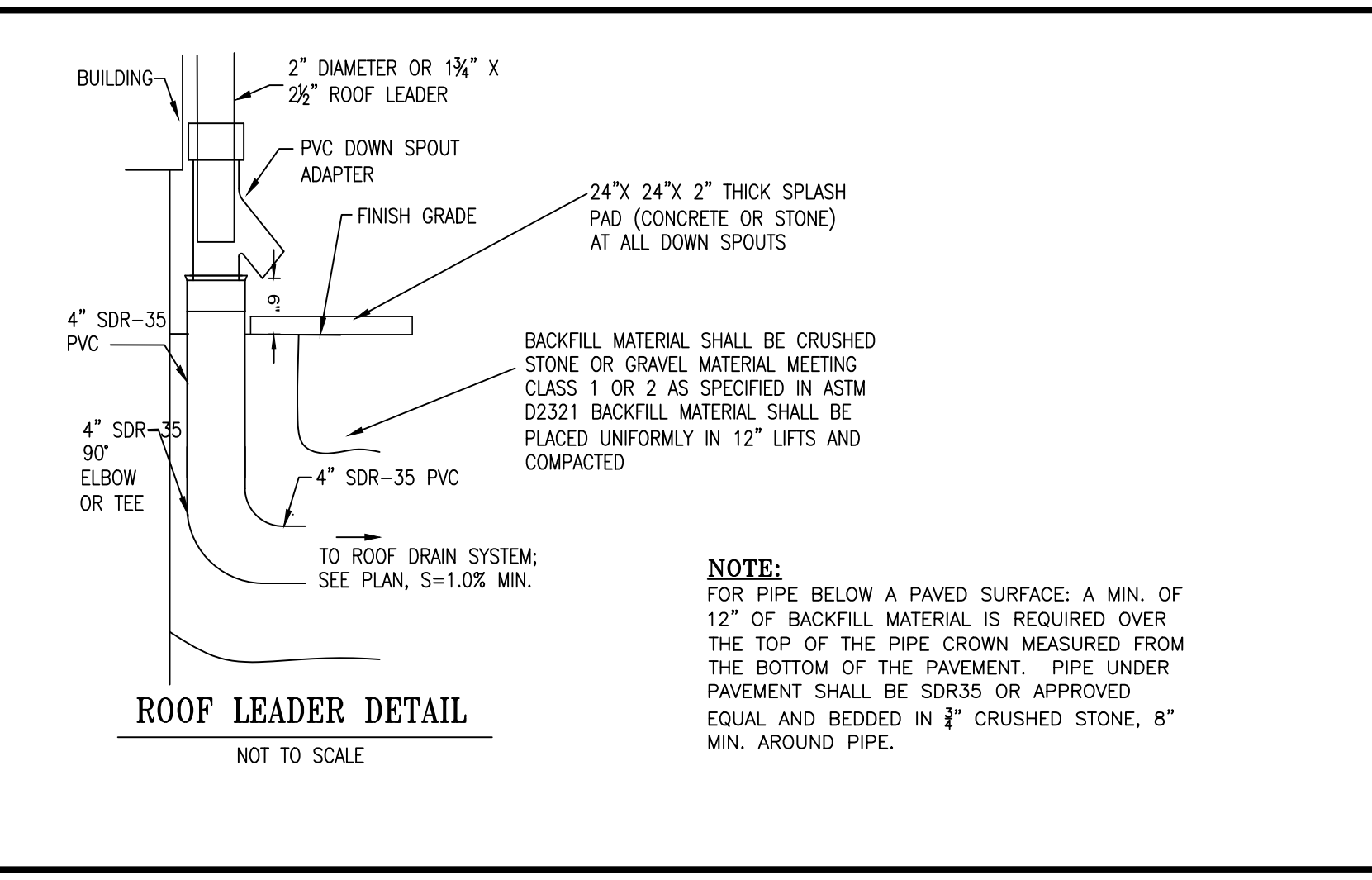
ROOF INFILTRATION ELEVATION SUMMARY						
LOT	A= MIN. COVER ELEV. (FT.)	B=TOP COVER STONE ELEV. (FT.)	C=TOP CHAMBER ELEV. (FT.)	D= BOTTOM CHAMBER (INLET) ELEV. (FT.)	E=BOTTOM STONE ELEV. (FT.)	F=ESHGW ELEV. (FT.)
LOT-1	81.64	80.64	80.14	79.10	78.60	76.00
LOT-2	80.24	79.24	78.74	77.70	77.20	75.00
LOT-3	77.54	76.54	76.04	75.00	74.50	72.00
LOT-4	75.74	74.74	74.24	73.20	72.70	70.50
LOT-5	68.04	67.04	66.54	65.50	65.00	62.00
LOT-6	65.79	64.79	64.29	63.25	62.75	60.00
LOT-7	70.04	69.04	68.54	67.50	67.00	64.00
LOT-8	72.04	71.04	70.54	69.50	69.00	66.00
LOT-9	77.24	76.24	75.74	74.70	74.20	72.00
LOT-10	78.24	77.24	76.74	75.70	75.20	73.00
LOT-11	72.04	71.04	70.54	69.50	69.00	66.00
LOT-12	66.24	65.24	64.74	63.70	63.20	61.00
LOT-13	61.24	60.24	59.74	58.70	58.20	56.00
LOT-14	60.24	59.24	58.74	57.70	57.20	55.00
LOT-15	57.04	56.04	55.54	54.50	54.00	48.50
LOT-16	66.04	65.04	64.54	63.50	63.00	59.00
LOT-17	70.54	69.54	69.04	68.00	67.50	63.50
LOT-18	75.54	74.54	74.04	73.00	72.50	69.00
LOT-19	79.04	78.04	77.54	76.50	76.00	72.00

**CULTEC SYSTEM NOTES:**

- ALL WORK PERFORMED IN ACCORDANCE WITH CULTEC RECOMMENDATIONS.
- CULTEC SYSTEM INSTALLATION MUST BE INSPECTED BY THE PROJECT ENGINEER.
- CULTEC SYSTEMS MAY BE SPLIT INTO TWO SYSTEMS EACH RECEIVING HALF OF THE ROOF AREA.
- INFILTRATION SYSTEM CHAMBERS SHALL BE CULTEC CONTRACTOR 100 UNITS.
- STONE AROUND INFILTRATORS SHALL BE WASHED, CRUSHED STONE.
- CULTEC SYSTEMS SHALL BE LOCATED 25' MIN. FROM OWNERS', 50' FROM WELLS AND 10' MIN. FROM BUILDINGS AND PROPERTY LINES.
- ALL PIPE UNDER DRIVEWAYS SHALL BE SDR35 PVC OR APPROVED EQUAL AND BEDDED IN 2" CRUSHED STONE 8" MIN. AROUND PIPE.

**CULTEC SYSTEM MAINTENANCE NOTES:**

- INFILTRATOR CHAMBERS SHALL BE PERIODICALLY INSPECTED AND MAINTAINED DURING CONSTRUCTION AND A MINIMUM OF TWICE PER YEAR UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF ALL DRAINAGE FACILITIES, AS PER THEIR RESPECTIVE PROGRAMS, UNTIL FINAL ACCEPTANCE BY THE OWNER.
- UPON FINAL ACCEPTANCE, THE OWNER SHALL BE RESPONSIBLE FOR ALL DRAINAGE INSPECTION AND MAINTENANCE.
- ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION OF THE RIDEM-UIC PROGRAM.
- ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF CONTAMINANTS TO THE DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE RIDEM WILL REQUIRE THE PROPERTY OWNER TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT THE QUALITY OF THE GROUNDWATER.
- VEHICLE TRAFFIC OVER THE SYSTEM IS NOT PERMITTED.



**DRAINAGE SYSTEM-INSPECTION, MAINTENANCE & REPAIR:**

- THE OWNER SHALL MAINTAIN THE PROPOSED DRAINAGE SYSTEM COMPONENTS WHICH INCLUDE THE CATCH BASINS, MANHOLES, PIPING, SWALE, SAND FILTERS, INFILTRATION PONDS AND DETENTION POND. A LEGALLY BINDING AND ENFORCEABLE MAINTENANCE AGREEMENT SHALL BE EXECUTED BETWEEN THE OWNER AND A MAINTENANCE COMPANY TRAINED AND EXPERIENCED WITH THE MAINTENANCE REQUIREMENTS DETAILED IN THE 'RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL', LATEST EDITION KNOWN AS THE 'MANUAL'.
- INSPECTIONS ARE ESSENTIAL FOR THE LONGEVITY OF THE DRAINAGE SYSTEMS. THE DRAINAGE SYSTEM SHOULD BE INSPECTED IN ACCORDANCE WITH THE 'MANUAL' AND THE SITE-SPECIFIC OPERATION AND MANAGEMENT PLAN BY THE MAINTENANCE COMPANY. RECORDS OF INSPECTIONS SHALL BE MAINTAINED BY THE OWNER AND MAINTENANCE COMPANY. IN NO CASE SHALL LESS THAN TWO INSPECTIONS OCCUR EACH CALENDAR YEAR, TYPICALLY SPRING AND FALL. THE ENTIRE SYSTEM SHALL ALSO BE INSPECTED AFTER STORM EVENTS GREATER THAN OR EQUAL TO THE 1-YEAR, 24-HOUR TYPE III PRECIPITATION EVENT (2.7 INCHES OF RAIN).
- INSPECTIONS SHALL BE IN ACCORDANCE WITH THE 'MANUAL'. A SUMMARY OF THE REQUIREMENTS ARE DESCRIBED BELOW, THE MAJORITY OF WHICH IS TAKEN DIRECTLY FROM THE 'MANUAL'. THE INSPECTOR SHALL REFER TO THE 'MANUAL' FOR ADDITIONAL INSIGHT ON INSPECTION METHODS AND REQUIREMENTS. ALL CHECKLISTS IN THE MANUAL SHALL BE FILLED OUT BY THE INSPECTOR. ALL DEFICIENCIES DISCOVERED SHALL BE BROUGHT TO THE OWNER'S ATTENTION IN WRITING.

**DRAINAGE MANHOLES:**

DRAINAGE MANHOLES SHALL BE INSPECTED ON A QUARTERLY BASIS IN ADDITION TO INSPECTIONS AFTER STORM EVENTS GREATER THAN OR EQUAL TO THE 1-YEAR, 24-HOUR TYPE III PRECIPITATION EVENT (2.7 INCHES OF RAIN).

**SCHEDULED MAINTENANCE:**

- REMOVE TRASH AND LITTER.
- REPAIR ALL STRUCTURAL DEFECTS IMMEDIATELY.
- REMOVE ALL ACCUMULATED SEDIMENT AND DISPOSED OFF-SITE IN ACCORDANCE WITH STATE & FEDERAL REGULATIONS.

**SCHEDULED MAINTENANCE:**

CATCH BASINS SHALL BE CLEANED A MINIMUM OF ONE (1) TIME PER YEAR (PREFERABLY IN THE SPRING), REGARDLESS OF THE DEPTH OF ACCUMULATED MATERIAL IN THE CATCH BASINS AT THE TIME OF THE CLEANING.

**CORRECTIVE MAINTENANCE:**

IF AT ANY TIME THE DEPTH OF ACCUMULATED MATERIAL WITHIN THE CATCH BASIN IS GREATER THAN OR EQUAL TO TWO (2) FEET, ALL ACCUMULATED MATERIAL SHALL BE REMOVED FROM THE CATCH BASIN TO THE BOTTOM OF THE SUMP AND LEGALLY DISPOSED OF AT AN OFF-SITE LOCATION.

**PIPES & OUTLETS:**

INSPECTIONS:

DRAINAGE PIPES AND OUTLETS SHALL BE INSPECTED ON A QUARTERLY BASIS IN ADDITION TO INSPECTIONS AFTER STORM EVENTS GREATER THAN OR EQUAL TO THE 1-YEAR, 24-HOUR TYPE III PRECIPITATION EVENT (2.7 INCHES OF RAIN).

**SCHEDULED MAINTENANCE:**

- REMOVE TRASH AND LITTER.
- INSPECT OUTLET RIP RAP AREAS. REPAIR ALL ERODED AREAS BY SUPPLEMENTING WITH MORE RIP RAP AND ESTABLISHING NEW VEGETATIVE GROWTH.

**CORRECTIVE MAINTENANCE:**

ALL CLOGGED OR SEDIMENT FILLED PIPES WHICH ARE MORE THAN 10% SEDIMENT FILLED SHALL BE CLEANED OUT IMMEDIATELY. WHEN CLEANING OUT PIPES, ENSURE DOWNSTREAM AREAS ARE PROTECTED FROM SEDIMENT DISCHARGES. DISPOSE OFF-SITE IN ACCORDANCE WITH STATE & FEDERAL REGULATIONS.

**GRASS SWALE:**

INSPECTIONS:

THE GRASS SWALE SHALL BE INSPECTED ON AN ANNUAL BASIS AND AFTER STORMS OF GREATER THAN OR EQUAL TO THE 1-YEAR, 24-HOUR TYPE III PRECIPITATION EVENT (2.7 INCHES OF RAIN).

**SCHEDULED MAINTENANCE:**

THE MAINTENANCE OBJECTIVE FOR THIS PRACTICE INCLUDES PRESERVING THE HYDRAULIC AND REMOVAL EFFICIENCY OF THE CHANNEL AND MAINTAINING A DENSE, HEALTHY VEGETATIVE COVER. THE FOLLOWING ACTIVITIES ARE RECOMMENDED ON AN ANNUAL BASIS OR AS NEEDED:

- MOWING AND LITTER/ DEBRIS REMOVAL. MAINTAIN AN AVERAGE 6-INCH GRASS HEIGHT.
- STABILIZATION OF ERODED SIDE SLOPES AND BOTTOM.
- NUTRIENT AND PESTICIDE USE MANAGEMENT.
- DE-THATCHING SWALE BOTTOM AND REMOVAL OF THATCHING, AND
- DISKING OR AERATION OF SWALE BOTTOM.

ALL RIP RAP CHECK DAMS SHALL BE REFRESHED AS REQUIRED TO MAINTAIN VOID SPACE AND FLOW DIFFUSION EFFECTIVENESS; THIS SHALL CONSIST OF THE REMOVAL OF ACCUMULATED SEDIMENTS WITHIN THE RIP RAP VOIDS AND RESTORATION OF THE RIP RAP STONE TO ORIGINAL LIMITS AND GRADES.

EVERY FIVE YEARS, SCRAPING OF THE CHANNEL BOTTOM AND REMOVAL OF SEDIMENT TO RESTORE ORIGINAL CROSS SECTION AND INFILTRATION RATE, AND SEEDING TO RESTORE GROUND COVER IS RECOMMENDED.

**CORRECTIVE MAINTENANCE:**

WHEN SEDIMENT ACCUMULATES TO A DEPTH OF APPROXIMATELY 3 INCHES, IT SHALL BE REMOVED, AND THE SWALE SHALL BE RECONFIGURED TO ITS ORIGINAL DIMENSIONS. THE VEGETATION IN THE GRASSES SWALE SHALL BE MOWED AS REQUIRED TO MAINTAIN HEIGHTS IN THE 4-6 INCH RANGE, WITH MANDATORY MOWING ONCE HEIGHTS EXCEED 10 INCHES. IF THE SURFACE OF THE GRASS SWALE BECOMES CLOGGED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE 48 HOURS AFTER PRECIPITATION EVENTS, THE BOTTOM SHALL BE ROTO-TILLED OR CULTIVATED TO BREAK UP ANY HARD-PACKED SEDIMENT, AND THEN RESEEDED. TRASH AND DEBRIS SHALL BE REMOVED AND PROPERLY DISPOSED OF.

**SEDIMENT FOREBAY:**

INSPECTIONS:

THE SEDIMENT FOREBAY SHALL BE INSPECTED QUARTERLY AND AFTER STORM EVENTS GREATER THAN OR EQUAL TO THE 1-YEAR, 24 HOUR TYPE III PRECIPITATION EVENT.

**SCHEDULED MAINTENANCE:**

- MATERIALS DEPOSITED ON THE SURFACE (E.G., TRASH AND LITTER) SHOULD BE REMOVED MANUALLY.
- VEGETATION SHALL BE MAINTAINED AT LESS THAN 18" IN HEIGHT.
- SEDIMENT/SILT SHALL BE REMOVED WHEN IT ACCUMULATES TO MORE THAN ONE-HALF THE DESIGN DEPTH.

**CORRECTIVE MAINTENANCE:**

IF STANDING WATER IS OBSERVED IN THE SEDIMENT FOREBAY FOR MORE THAN 36 HOURS AFTER A STORM EVENT, THEN THE TOP 6 INCHES OF MATERIAL SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL. IF DISCOLORED OR CONTAMINATED MATERIAL IS FOUND BELOW THE REMOVED SURFACE THEN THAT MATERIAL SHALL ALSO BE REMOVED AND REPLACED UNTIL ALL CONTAMINATED SAND HAS BEEN REMOVED FROM THE SEDIMENT FOREBAY. THE MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AND LOCAL REGULATIONS.

THE BERM AROUND THE SEDIMENT FOREBAY SHALL BE INSPECTED FOR EROSION AND GULLYING. REINFORCE EXISTING RIPRAP IF RIPRAP IS FOUND TO BE DEFICIENT OR IF EROSION IS PRESENT AT THE OUTFALLS OF ANY CONTROL STRUCTURES, OR THE EXISTING RIPRAP HAS BEEN COMPROMISED. ALL STRUCTURAL COMPONENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, TRASH RACKS, ACCESS GATES, VALVES, PIPES, WEIR WALLS, ORIFICE STRUCTURES, AND SPILLWAY STRUCTURES, SHALL BE INSPECTED AND ANY DEFICIENCIES SHALL BE REPORTED. THIS INCLUDES A VISUAL INSPECTION OF ALL STORMWATER CONTROL STRUCTURES FOR DAMAGE AND/OR ACCUMULATION OF SEDIMENT. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN THE DEPTH OF SEDIMENT IS GREATER THAN 12 INCHES.

**INFILTRATION BASIN/DETENTION POND:**

MAINTENANCE:

A LEGALLY BINDING AND ENFORCEABLE MAINTENANCE AGREEMENT SHALL BE EXECUTED BETWEEN THE FACILITY OWNER AND THE RESPONSIBLE AUTHORITY TO ENSURE THE FOLLOWING:

INFILTRATION PRACTICES SHALL NEVER SERVE AS A SEDIMENT CONTROL DEVICE DURING SITE CONSTRUCTION PHASE. GREAT CARE MUST BE TAKEN TO PREVENT THE INFILTRATION AREA FROM COMPACTION BY MARKING OFF THE LOCATION BEFORE THE START OF CONSTRUCTION AT THE SITE AND CONSTRUCTING THE INFILTRATION PRACTICE LAST, CONNECTING UPSTREAM DRAINAGE AREAS ONLY AFTER CONSTRUCTION IS COMPLETE, AND THE CONTRIBUTING AREA IS STABILIZED.

INSPECTIONS:

INFILTRATION BASIN SHOULD BE INSPECTED A MINIMUM OF ONE (1) TIME PER YEAR, PREFERABLY IN THE SPRING. IN ADDITION, BASIN SHALL BE INSPECTED AFTER ANY STORM GREATER THAN OR EQUAL TO THE 1-YEAR, 24-HOUR, TYPE III STORM EVENT.

**SCHEDULED MAINTENANCE:**

- SEDIMENT, TRASH OR OTHER DEBRIS IN INFILTRATION BASIN SHALL BE CLEANED A MINIMUM OF ONE (1) TIME PER YEAR (PREFERABLY IN THE SPRING), REGARDLESS OF THE DEPTH OF ACCUMULATED MATERIAL IN THE BASIN AT THE TIME OF THE CLEANING.
- MOW ALL VEGETATED BASIN SLOPES AT LEAST FOUR (4) TIMES ANNUALLY DURING THE GROWING SEASON (TYPICALLY APRIL-NOVEMBER); MAINTAIN GRASS AT A HEIGHT OF 4-6". REMOVE AND DISPOSE OF ANY AND ALL OTHER VEGETATION (BUSHES, SHRUBS, TREES) THAT MAY BEGIN TO GROW WITHIN THE BASIN BEFORE IT BECOMES ESTABLISHED.
- ALL RIP RAP PADS SHALL BE REFRESHED AS REQUIRED TO MAINTAIN VOID SPACE AND FLOW DIFFUSION EFFECTIVENESS; THIS SHALL CONSIST OF THE REMOVAL OF ACCUMULATED SEDIMENTS WITHIN THE RIP RAP VOIDS AND RESTORATION OF THE RIP RAP STONE TO ORIGINAL LIMITS AND GRADES.

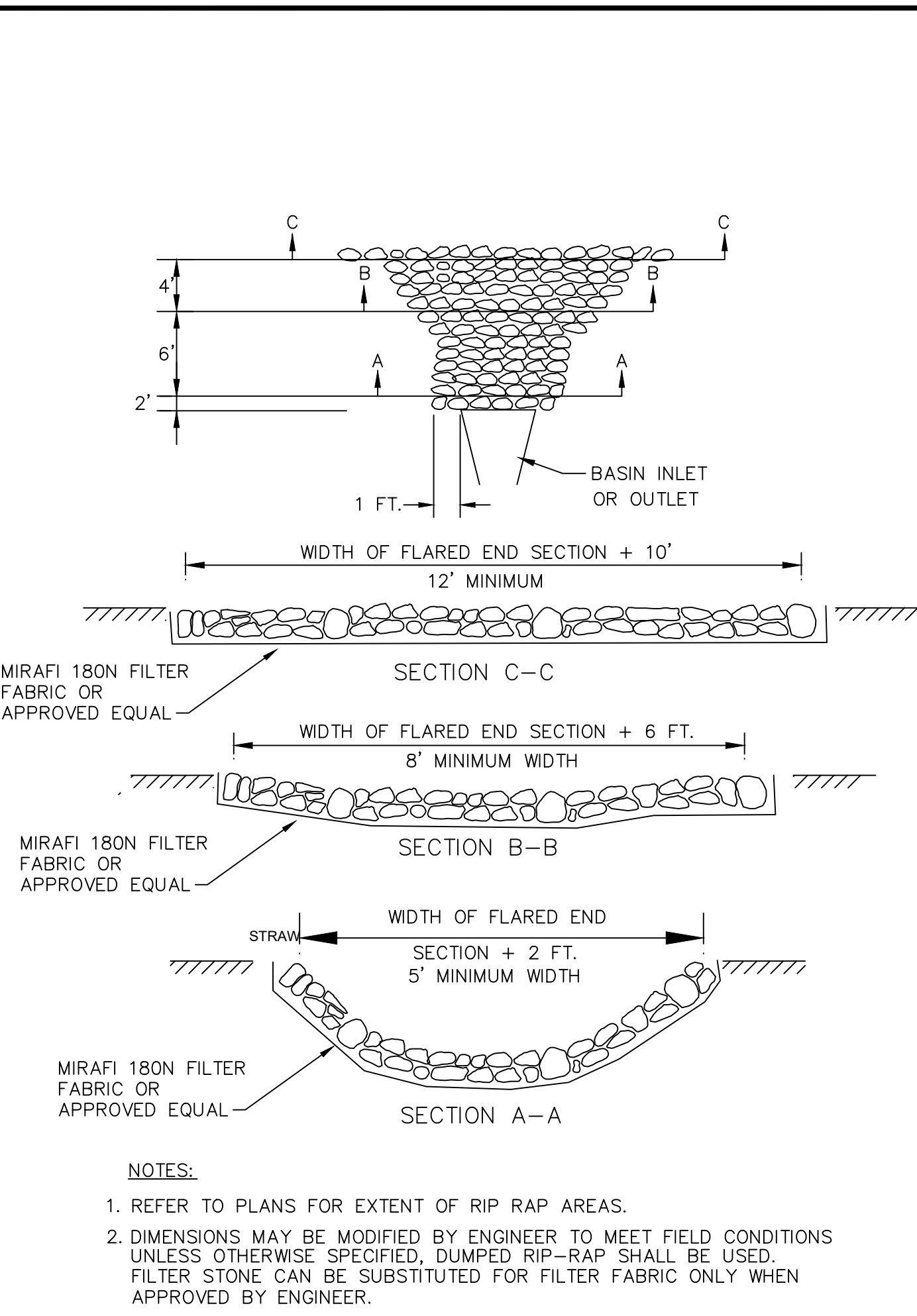
**CORRECTIVE MAINTENANCE:**

IF EROSION OR GULLYING OF THE BASIN SLOPES IS OBSERVED, THE AFFECTED SLOPES SHALL BE PROMPTLY FILLED WITH THE ORIGINAL MATERIAL (OR SUITABLE REPLACEMENT MATERIAL), RE-LOAMED TO ORIGINAL GRADE, RE-SEEDED AND MAINTAINED UNTIL SUCH TIME AS THE AFFECTED AREA HAS SUFFICIENTLY STABILIZED. SUPPLEMENTAL SLOPE STABILIZATION (RIP RAP OR GEOTEXTILE SLOPE REINFORCEMENT) SHALL BE INSTALLED IN LOCATIONS DEMONSTRATING REPETITIVE EROSION OR GULLYING, AND IN SEVERE CASES FLOW REDIRECTION AWAY FROM THE AFFECTED AREA SHALL BE IMPLEMENTED IF NECESSARY.

ANY BLOCKAGES OF OUTLET DEVICES/STRUCTURES SHALL BE PROMPTLY REMOVED AND THE DEVICE/STRUCTURE CAPACITY RESTORED.

DEFICIENCIES IN ANY STRUCTURAL COMPONENTS OF THE BASIN (INLET & OUTLET STRUCTURES, WEIRS & ORIFICES, WALLS, SPILLWAYS, ETC.) SHALL BE PROMPTLY REPAIRED TO ORIGINAL CONDITION OR REPLACED IN-KIND.

IF SEDIMENT OR ORGANIC DEBRIS BUILD-UP HAS LIMITED THE INFILTRATION CAPABILITIES (INFILTRATION BASINS) TO BELOW THE DESIGN RATE, THE TOP 6 INCHES SHALL BE REMOVED AND THE SURFACE ROTO-TILLED TO A DEPTH OF 12 INCHES. THE BASIN BOTTOM SHOULD BE RESTORED ACCORDING TO ORIGINAL DESIGN SPECIFICATIONS.



**ROCK RIP-RAP @ FLARED END OUTLETS**

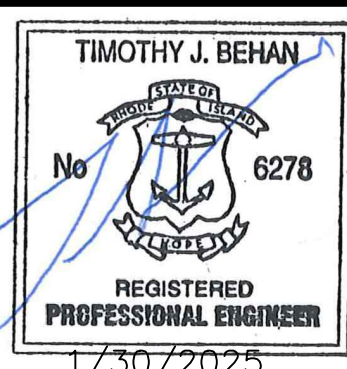
NOT TO SCALE

R-1 RIP RAP:	R-2 RIP RAP:	R-3 RIP RAP:	R-4 RIP RAP:
100% PASS - 2"	100% PASS - 4"	100% PASS - 8"	100% PASS - 14"
0-50% PASS - 1"	0-50% PASS - 2"	0-50% PASS - 4"	0-50% PASS - 4"
0-15% PASS - #4	0-15% PASS - 1"	0-15% PASS - 2"	0-15% PASS - 4"
MIN. DEPTH=4"	MIN. DEPTH=6"	MIN. DEPTH=12"	MIN. DEPTH=21"
BEDDING=FS-1	BEDDING=FS-1	BEDDING=FS-2	BEDDING=FS-3
MIN. DEPTH=3"	MIN. DEPTH=3"	MIN. DEPTH=6"	MIN. DEPTH 9"

**ROCK RIP-RAP SPECIFICATIONS ALL LOCATIONS**

**OWNER:**  
SHELEEN CLARKE  
96 DUCK COVE ROAD  
NORTH KINGSTOWN, RI 02852

**APPLICANT:**  
NEW ENGLAND PROPERTIES, LLC  
257 WICKFORD CT.  
NORTH KINGSTOWN, RI 02852



**REVISIONS**

No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
5	10/21/24	SMA	TB
6	11/24/24	SMA	TB
7	01/30/25	SMA	TB

**PERMIT AGENCY REVIEW PLAN**

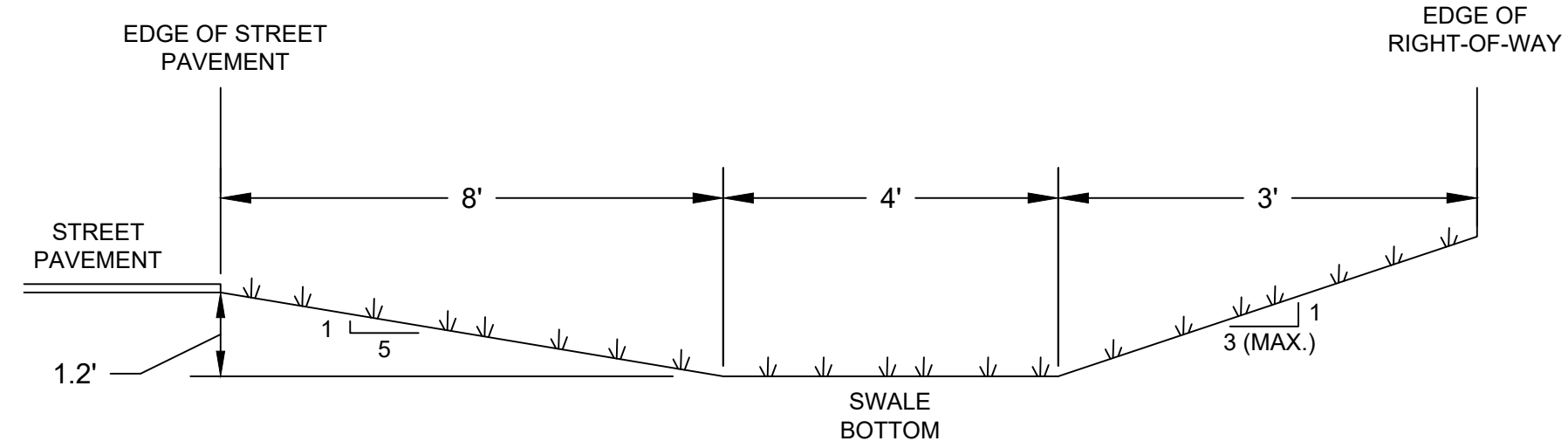
FOR  
VILLAGE AT BROAD ROCK  
PLAT 33, LOT 24  
ON  
BROAD ROCK ROAD  
SOUTH KINGSTOWN, RHODE ISLAND  
**CONSTRUCTION DETAILS PLAN-1**

SCALE: AS SHOWN SHEET NO: 12 OF 17

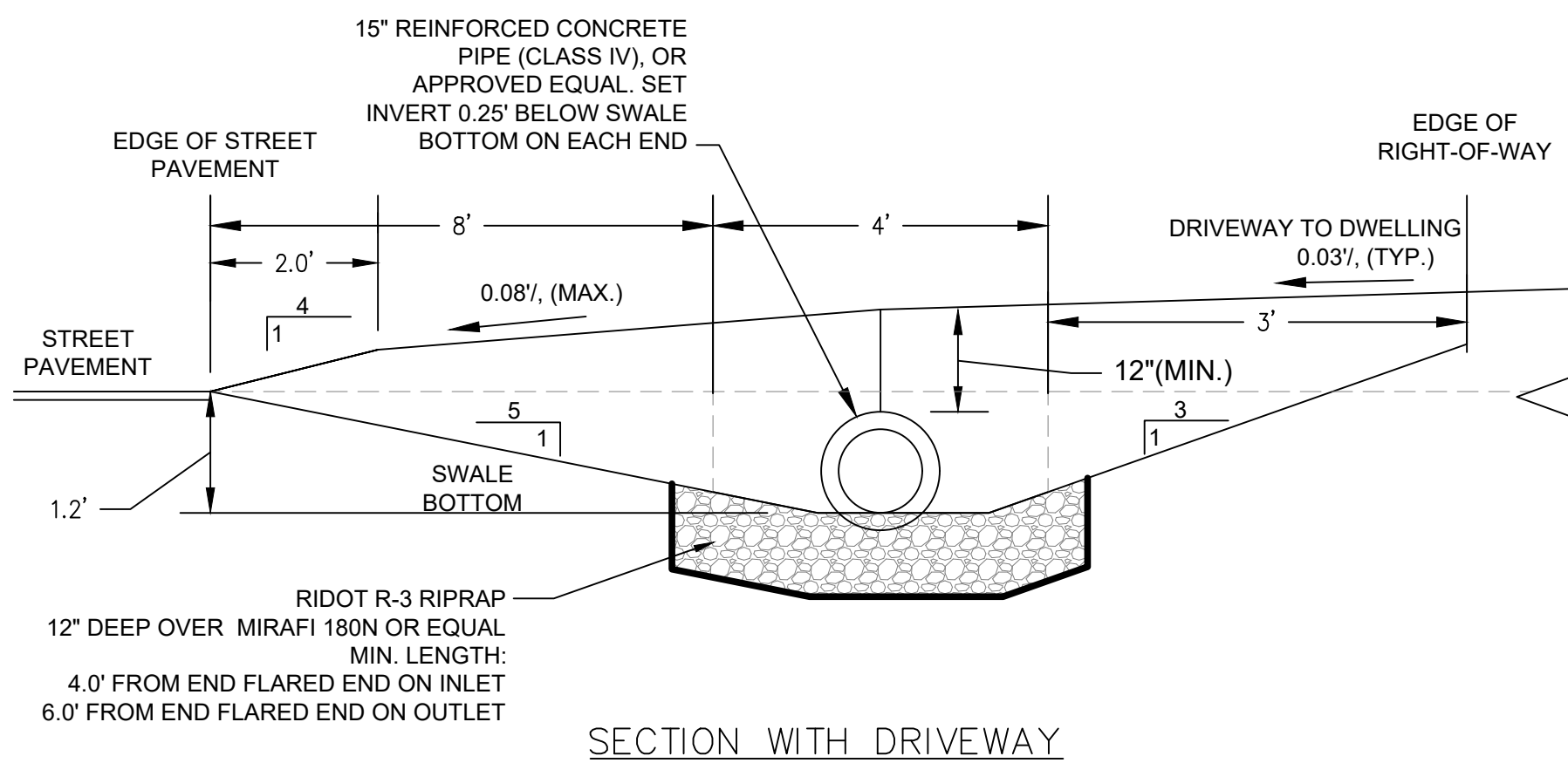
DRAWN BY: SMA DESIGN BY: SMA CHECKED BY: TJB

DATE: FEBRUARY 2024 PROJECT NO: 23011.00





SECTION WITH NO DRIVEWAY



SECTION WITH DRIVEWAY

NOTE: REINFORCED CONCRETE PIPE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND BEDDING REQUIREMENTS

**GRASSED SWALE TYPICAL DIMENSIONS**

SCALE: NOT TO SCALE

**GRASS SWALE DATA:**

MAXIMUM SLOPE= 0.04' / (4%)  
(CHECK DAMS NOT INCLUDED IN CALCULATIONS)

STORM	PEAK FLOW	MAX. DEPTH	MAX. VELOCITY
WQV	0.43 CFS	0.06 FT.	1.59 FT/SEC
1-YR	0.98 CFS	0.10 FT.	2.14 FT/SEC
10-YR	3.76 CFS	0.22 FT.	3.54 FT/SEC
100-YR	9.62 CFS	0.38 FT.	4.85 FT/SEC

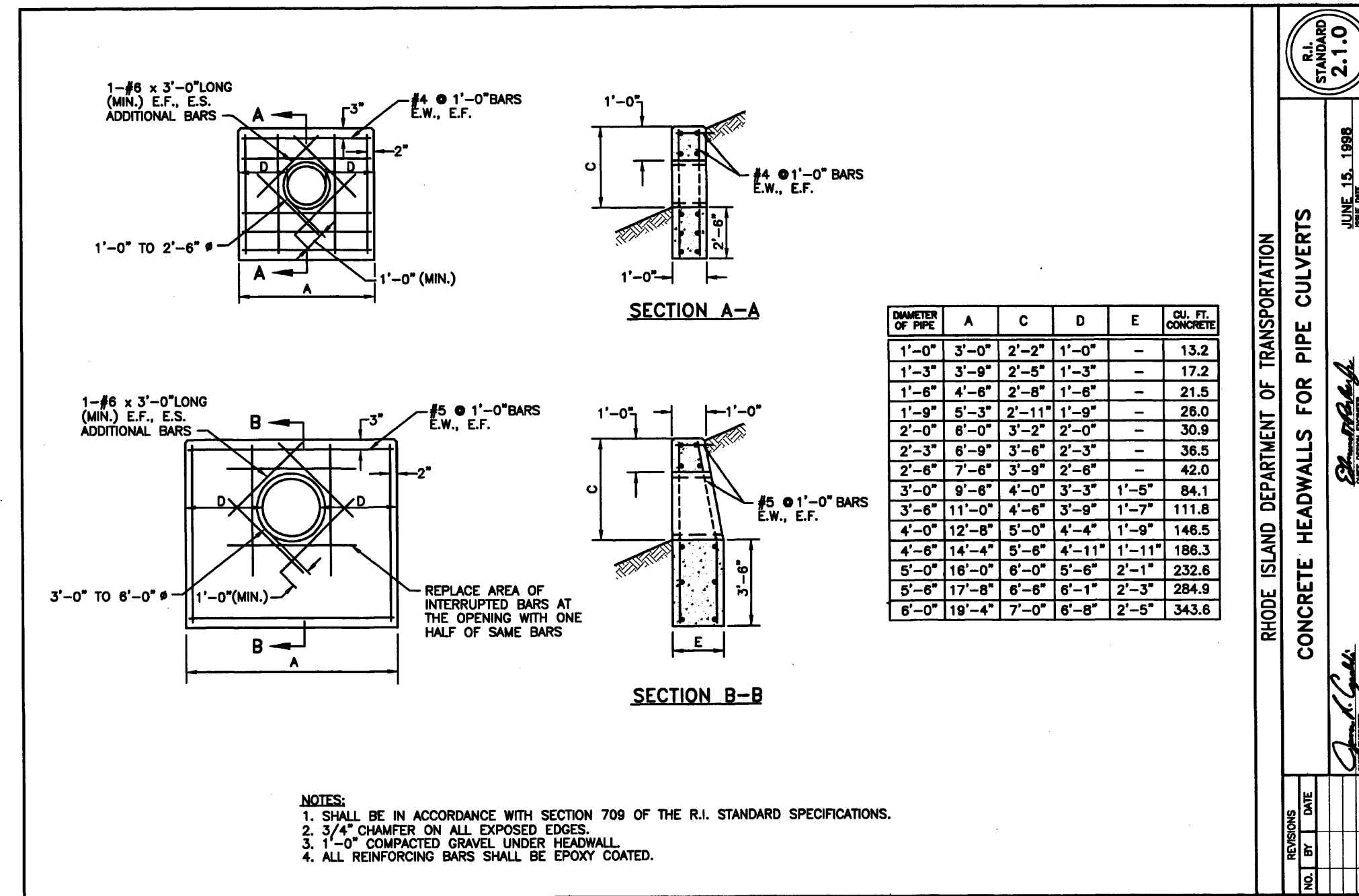
\* MIN. CHANNEL CAPACITY AT 1.2' DEEP = 91.17 CFS  
\*\*VALUES SHOWN ARE THE GREATER OF EITHER SWALE AS CALCULATED BY HYDROCAD MODEL

**NOTE:**

- REFER TO PLAN FOR "GRASS SWALE LOCATION".
- CHECK DAMS TO BE INSTALLED AS SHOWN.
- CHECK DAMS SHALL BE MIN. 0.5-FOOT HIGH, 3-FEET WIDE AT THE BASE AND EXTEND ACROSS THE WIDTH OF THE SWALE.
- CHECK DAMS TO BE CONSTRUCTED OF RIDOT R-2 RIPRAP OVER MIRAFI 180N FILTER FABRIC OR FS-1 FILTER STONE

DRIVEWAY AND CULVERT ELEVATION SUMMARY											
LOT NO.	EDGE OF ROADWAY ELEV. INLET/OUTLET (FT.)	INLET STATION AND OFFSET (1)	INLET INV. (FT.)	OUTLET STATION AND OFFSET (1)	OUTLET INV. (FT.)	CULVERT LENGTH (FT.)(2)	CULVERT SLOPE (FT/FT)	INLET TOP CULVERT ELEV. (FT.)	OUTLET TOP CULVERT ELEV. (FT.)	DRIVEWAY AT INLET OF CULVERT MIN. ELEV. (FT.)	DRIVEWAY AT OUTLET OF CULVERT MIN. ELEV. (FT.)
1	81.35/81.15	1+56, 15'R	80.21	1+82, 15'R	79.77	24	0.018	81.67	81.23	82.61	82.29
2	80.30/80.00	2+68, 15'R	78.89	2+92, 15'R	78.45	24	0.018	80.35	79.91	81.29	80.97
3	78.90/78.32	3+61, 15'R	77.66	3+83, 15'R	76.71	24	0.040	79.12	78.17	79.88	79.41
4	74.23/73.27	4+98, 15'R	73.15	5+22, 15'R	71.80	24	0.056	74.61	73.26	75.37	74.50
5	63.86/63.42	5+61, 15'R	70.75	5+85, 15'R	69.30	24	0.060	72.21	70.76	72.97	72.00
6	63.86/63.42	8+64, 15'R	62.61	8+88, 15'R	61.90	24	0.030	64.07	63.36	64.89	64.54
7	67.95/67.1	9+79, 16'R	66.75	10+07, 16'R	65.45	24	0.054	68.21	66.91	69.03	68.09

- (1) DENOTES STATION OF PIPE, NOT FLARED END SECTION.  
(2) DENOTES LENGTH OF PIPE NOT INCLUDING FLARED END SECTIONS.



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE R.I. STANDARD SPECIFICATIONS.
  - 3/4" CHAMFER ON ALL EXPOSED EDGES.
  - 1'-0" COMPACTED GRAVEL UNDER HEADWALL.
  - ALL REINFORCING BARS SHALL BE EPOXY COATED.

**FILTER FABRIC SPEC.:**  
SHALL MEET THE FOLLOWING:

THICKNESS=0.08"  
OPENING SIZE=#80 SIEVE  
FLOW RATE=125 GAL/MIN.  
ASTM D751=125 LB.  
ASTM D1117=400 PSI.  
ASTM D1682=300 LB.

**EMBANKMENT MATERIAL:**

IMPERVIOUS MATERIAL (UNIFIED SOIL CLASSIFICATION GC, SC, CH OR CL AND AT LEAST 30% PASSING 200 SIEVE) COMPACTED TO 95% AT ALL EMBANKMENT AREAS WHICH HIGHER THAN SURROUNDING GRADES. MATERIAL SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6". FROZEN OR OTHER OBJECTIONABLE MATERIALS.

**TOPSOIL SPEC.:**

TOPSOIL SHALL HAVE A TEXTURE CLASSIFICATION OF SANDY LOAM AND BE FREE OF ROCKS GREATER THAN 3/4", ROOTS, DEBRIS AND ANY UNDESIRABLE MATERIALS AS DETERMINED BY THE TOWN OR ENGINEER. TOPSOIL SHALL ALSO MEET RIDOT SPECIFICATIONS AND HAVE A PERCOLATION RATE OF 10 MINUTES PER INCH OR FASTER.

**EMBANKMENT SEED MIX:**

RED FESCUE @ 1.75 LBS/1,000SF  
COLONIAL BENTGRASS, 'EXETER' @ 0.11 LBS/1,000SF  
PERENNIAL RYEGRASS @ 0.11 LBS/1,000SF  
BIRDSFOOT TREFOLI, 'EMPIRE' @ 0.35 LBS/1,000SF

**BMP SEED MIX:**

CREEP, RED FESCUE @ 0.45 LBS/1,000SF  
TALL FESCUE @ 0.45 LBS/1,000SF

**BANK RUN GRAVEL SPEC.:**

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
3/4"	100%
#4	55%-100%
#10	40%-100%
#40	10%-50%
#100	0%-20%
#200	0%-2%

**ASTM C-33 SAND SPEC.:**

ASTM C-33 SAND SHALL MEET ASTM C-33 REQUIREMENTS AND ALSO THE FOLLOWING:  
SIZE=0.02" TO 0.04"  
% PASS 200 SIEVE < 1.0%

**ROCK RIP-RAP SPECIFICATIONS ALL LOCATIONS**

**R-1 RIP RAP:**

100% PASS - 2"  
0-50% PASS - 1"  
0-15% PASS - #4  
MIN. DEPTH=4"  
BEDDING=FS-1  
MIN. DEPTH=3"

**R-3 RIP RAP:**

100% PASS - 8"  
0-50% PASS - 4"  
0-15% PASS - 2"  
MIN. DEPTH=12"  
BEDDING=FS-2  
MIN. DEPTH=6"

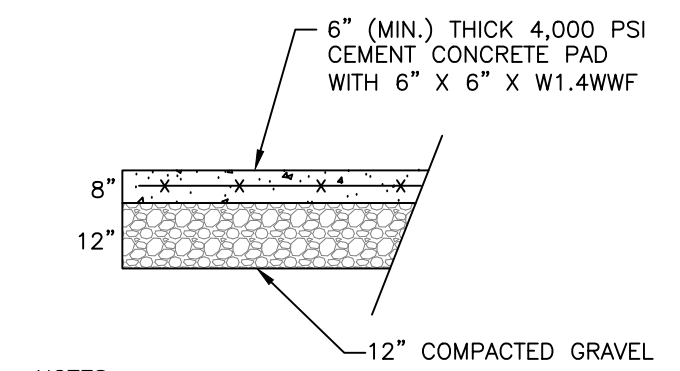
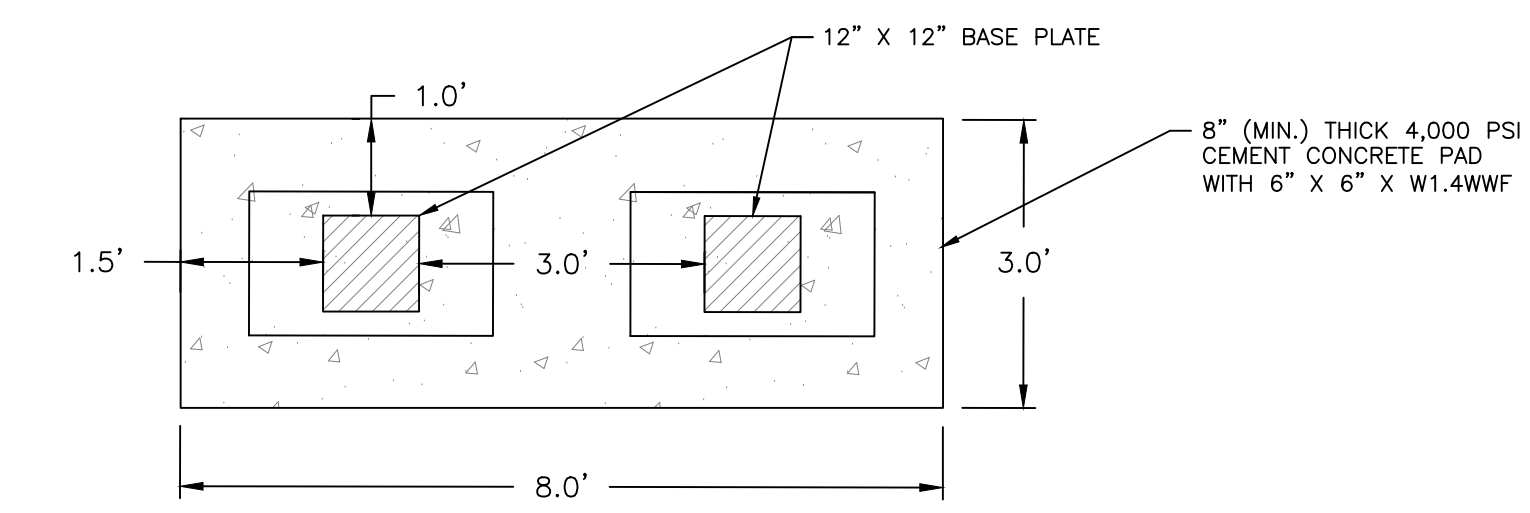
**FS-1 FILTER STONE:**

100% PASS - 0.5"  
0-50% PASS - #16  
0-15% PASS - #50  
MIN. DEPTH=3"

**FS-3 FILTER STONE:**

100% PASS - 6.5"  
0-50% PASS - 2.5"  
0-15% PASS - #4  
MIN. DEPTH=9"

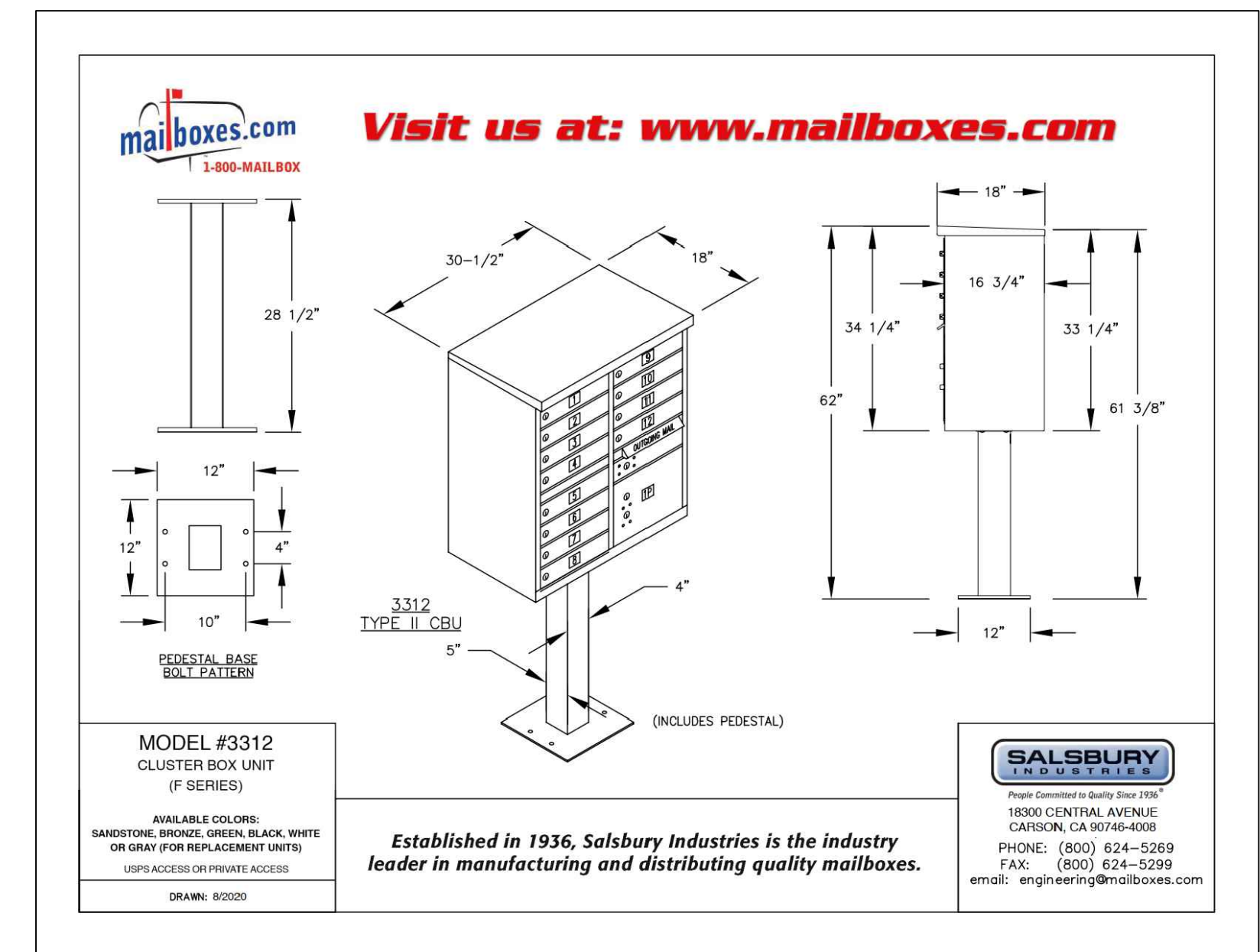
MIRAFI 180N FILTER FABRIC MAY BE SUBSTITUTED FOR FILTER STONE BENEATH R-1, R-2 AND R-3 RIPRAP



- NOTES:**
- REINFORCING 2" CLEAR FROM EDGES.
  - ANCHORS PER MANUFACTURERS RECOMMENDATION.

**COMMUNITY MAIL CONCRETE PAD DETAIL**

NOT TO SCALE

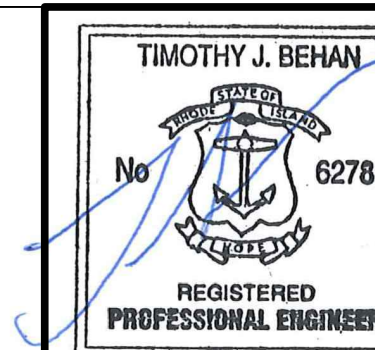


**COMMUNITY MAIL BOX DETAIL**

NOT TO SCALE

**OWNER:**  
SHELEEN CLARKE  
96 DUCK COVE ROAD  
NORTH KINGSTOWN, RI 02852

**APPLICANT:**  
NEW ENGLAND PROPERTIES, LLC  
257 WICKFORD CT.  
NORTH KINGSTOWN, RI 02852



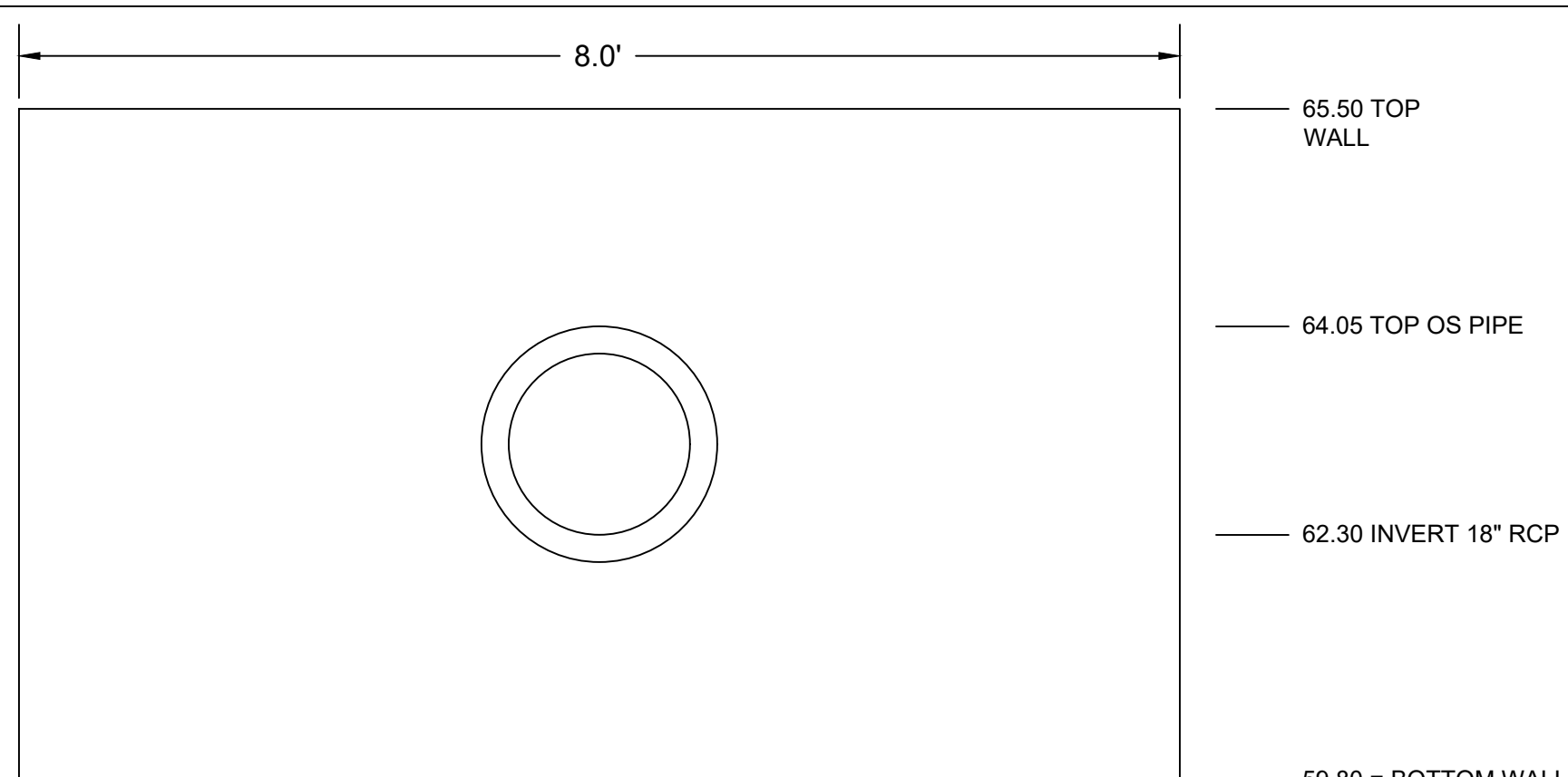
**REVISIONS**

No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
5	10/21/24	SMA	TB
6	11/24/24	SMA	TB
7	01/30/25	SMA	TB

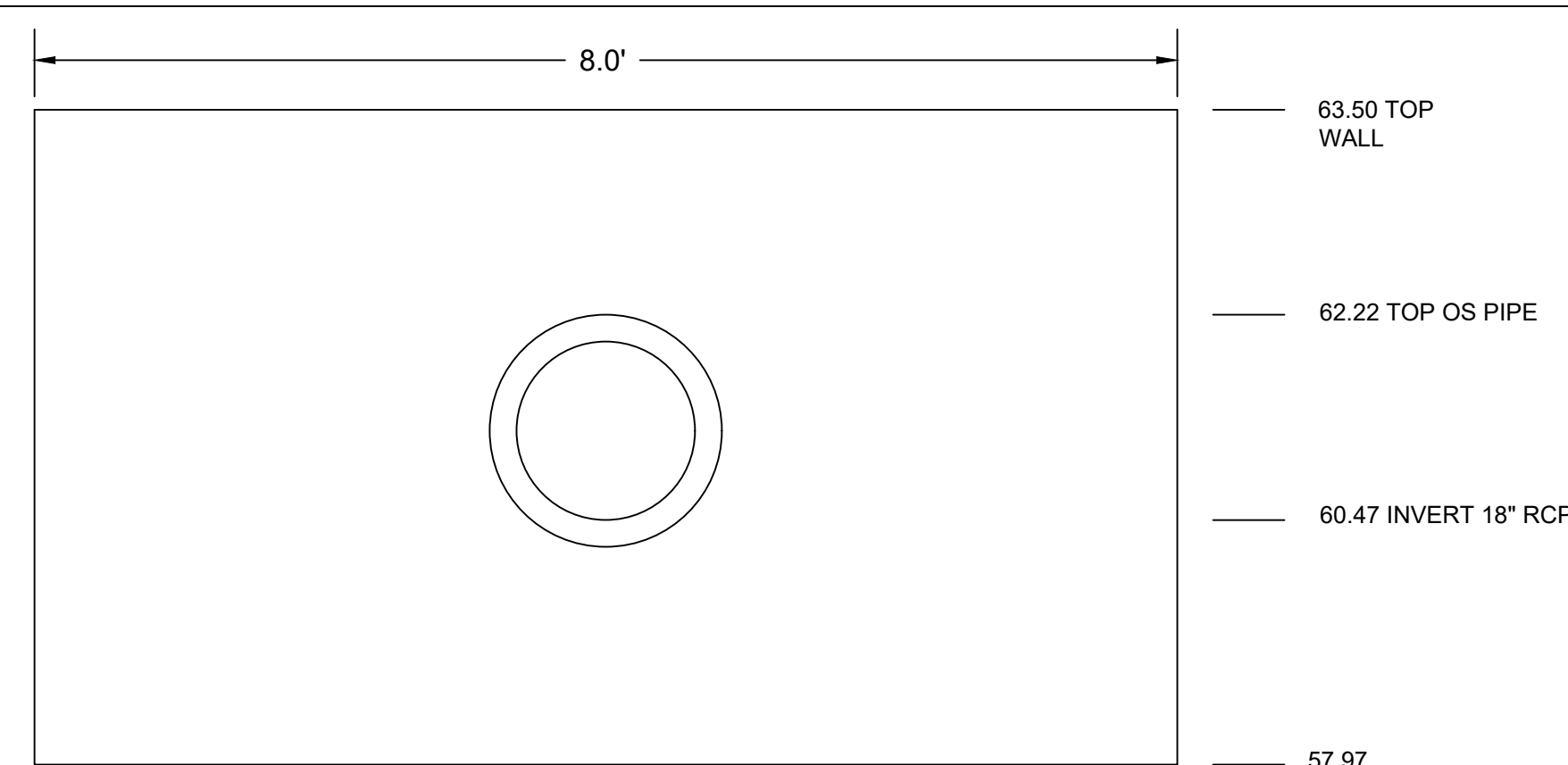


**PERMIT AGENCY REVIEW PLAN**  
FOR  
VILLAGE AT BROAD ROCK  
PLAT 33, LOT 24  
ON  
BROAD ROCK ROAD  
SOUTH KINGSTOWN, RHODE ISLAND  
**CONSTRUCTION DETAILS PLAN-3**

SCALE: AS SHOWN	SHEET NO: 14 OF 17	
DRAWN BY: SMA	DESIGN BY: SMA	CHECKED BY: TJB
DATE: FEBRUARY 2024	PROJECT NO: 23011.00	



**HEADWALL-1 ELEVATIONS**  
NOT TO SCALE



**HEADWALL-2 ELEVATIONS**  
NOT TO SCALE

**HEADWALL NOTES:**

- HEADWALLS SHALL BE A MINIMUM OF 1-FOOT THICK.
- CONTRACTOR TO SUBMIT SHOP DRAWING SHOWING PROPOSED STEEL REINFORCEMENTS.
- HEADWALLS SHALL BE CONSTRUCTED OVER A FOUNDATION OF COMPACTED GRAVEL, MIN. 1-FOOT DEEP AND SHALL EXTEND MIN. OF 1-FOOT BEYOND WALL IN ALL DIRECTIONS.



**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**BALED STRAW DITCH AND SWALE EROSION CHECK**  
 R.I. STANDARD 9.4.0  
 DATE: JUNE 15, 1998

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**PRECAST CONCRETE FLARED END SECTION**  
 R.I. STANDARD 2.3.0  
 DATE: JUNE 15, 1998

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**PRECAST 4'-0" ROUND MANHOLE**  
 R.I. STANDARD 4.2.0  
 DATE: JUNE 15, 1998

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**CATCH BASIN AND MANHOLE**  
 R.I. STANDARD 5.3.0  
 DATE: JUNE 15, 1998

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**CONCRETE COLLARS**  
 R.I. STANDARD 5.4.0  
 DATE: JUNE 15, 1998

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**STONEWALL CONSTRUCTION DETAIL**  
 NOT TO SCALE

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**SIGN POST SELECTION AND INSTALLATION DETAILS**  
**U-CHANNEL POST (SIGNS UP TO 8'-0" Wx4'-0" H)**  
 R.I. STANDARD 24.2.0  
 DATE: JUNE 15, 1998

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**HEAVY-DUTY ROUND FRAME AND COVER**  
 R.I. STANDARD 6.2.1  
 DATE: JUNE 15, 1998

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**ABOVE-GROUND WATER METER & BACKFLOW PREVENTION ENCLOSURE**  
 NOT TO SCALE

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**OPEN SPACE MARKER DETAIL**  
 NOT TO SCALE

SIGN NUMBER		*R1-1	
<b>LEGEND</b>			
COLOR	BACKGROUND	RED	
	COPY	WHITE	
SIGN DIMENSION	WIDTH	24"	30" 36" 48"
	HEIGHT	24"	30" 36" 48"

**OWNER:**  
 SHELEEN CLARKE  
 96 DUCK COVE ROAD  
 NORTH KINGSTOWN, RI 02852

**APPLICANT:**  
 NEW ENGLAND PROPERTIES, LLC  
 257 WICKFORD CT.  
 NORTH KINGSTOWN, RI 02852

**TIMOTHY J. BEHAN**  
 No. 6278  
 REGISTERED PROFESSIONAL ENGINEER  
 1/30/2025

**COMMONWEALTH ENGINEERS & CONSULTANTS, INC.**  
 400 SMITH STREET  
 PROVIDENCE, RHODE ISLAND 02908  
 (401) 273-6600

REVISIONS			
No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
5	10/21/24	SMA	TB
6	11/24/24	SMA	TB
7	01/30/25	SMA	TB

**PERMIT AGENCY REVIEW PLAN**  
 FOR  
 VILLAGE AT BROAD ROCK  
 PLAT 33, LOT 24  
 ON  
 BROAD ROCK ROAD  
 SOUTH KINGSTOWN, RHODE ISLAND  
**CONSTRUCTION DETAILS PLAN-5**

SCALE: AS SHOWN SHEET NO: 16 OF 17  
 DRAWN BY: SMA DESIGN BY: SMA CHECKED BY: TJB  
 DATE: FEBRUARY 2024 PROJECT NO: 23011.00

**MONUMENTS NOTES:**

- MONUMENTS (CONCRETE BOUNDARY MARKERS) SHALL BE OF THE TYPE FURNISHED BY THE TOWN, PAID FOR BY THE DEVELOPER AND PLACED BY A REGISTERED LAND SURVEYOR ON THE STREET LINE AT THE BEGINNING AND END OF ALL HORIZONTAL CURVES ON BOTH SIDES OF EACH SUBDIVISION (PUBLIC) STREET AND SHALL NOT BE MORE THAN FIVE HUNDRED FEET APART.
- MONUMENTS SHALL BE SET FOUR INCHES ABOVE FINISHED GRADE OF THE CENTER OF THE STREET

**NOTES:**

- EXISTING PARCEL, (A.P. 33 LOT 24) CONSIST OF 16.50±ACRES THAT ARE ZONED R-40.
- WETLAND FLAGS DELINEATED BY AVIZINIS ENVIRONMENTAL SERVICES, INC. 2022.
- OFF SITE BUILDING LOCATIONS ARE APPROXIMATE AND HAVE BEEN TAKEN FROM AERIAL PHOTOGRAPHY.
- ELEVATIONS BASED ON NAVD83 VERTICAL DATUM.
- A SMALL PORTION OF SUBJECT SITE IS SITUATED IN FEMA 100-YR FLOOD ZONE 'A' AS DEPICTED ON MAP 44009C0201J, EFFECTIVE 4/3/2020. THE REMAINING PORTION OF THE SITE IS SITUATED IN ZONE 'X' WHICH IS AREA OF MINIMAL FLOOD HAZARD.
- THERE IS NO EXISTING AGRICULTURAL USE ON THE SITE.
- THE ENTIRE AND SURROUNDING PROPERTIES CONTAIN PRIME AGRICULTURAL SOILS AND FARMLAND SOILS OF IMPORTANCE, PROPERTY.
- THERE ARE NO EXISTING STREETS, DRIVEWAYS, FARM ROADS, WOODS ROADS AND/OR TRAILS THAT HAVE BEEN IN PUBLIC USE.
- THERE ARE NO HISTORIC CEMETERIES LOCATED ON OR ADJACENT TO THE SITE.
- THE SITE IS LOCATED WITHIN A NATURAL HERITAGE AREA AS DEFINED BY RIDEM.
- THE SITE IS NOT LOCATED WITHIN A DRINKING WATER RESERVOIR, GROUNDWATER RECHARGE AREA OR SOLE SOURCE AQUIFER AS DEFINED BY RIDEM.
- THE SITE IS NOT LOCATED IN A CRMC SAMP AREA, A TOWN OF SOUTH KINGSTOWN GROUNDWATER PROTECTION OVERLAY DISTRICT OR AN OWTS CRITICAL RESOURCE AREA.
- THE SITE AND ANY EXISTING BUILDINGS ON THE SITE ARE NOT LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES.
- THE SAUGATUCKET RIVER HAS A TMDL FOR FECAL COLIFORM.

PROPOSED SUBDIVISION LOT SUMMARY		
LOT	AREA (SQ. FT.)	AREA (ACRES)
1	10,713	0.25
2	10,347	0.24
3	12,376	0.28
4	11,086	0.25
5	10,583	0.24
6	10,859	0.25
7	10,484	0.24
8	11,174	0.26
9	16,014	0.37
10	18,851	0.43
11	10,158	0.23
12	14,139	0.32
13	12,679	0.29
14	10,082	0.23
15	12,784	0.29
16	12,026	0.28
17	10,306	0.24
18	10,848	0.25
19	11,430	0.26
TOTAL LOTS	226,939	5.21
DRIVEWAY /UTILITY EASEMENT	53,689	1.23
LAND UNSUITABLE	70,567	1.62
STORMWATER POND	33,424	0.77
OPEN SPACE	334,230	7.65
TOTAL AREA	718,849	16.50

DRIVEWAY AND UTILITY EASEMENT CURVE TABLE					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C17	23.83	15.00	91.01	S52° 12' 12"W	21.40
C18	23.30	15.00	88.99	S37° 47' 48"E	21.02
C19	29.63	220.00	7.72	N86° 08' 55"W	29.61
C20	24.24	180.00	7.72	S86° 08' 55"E	24.22
C21	65.86	180.00	20.96	N79° 31' 28"W	65.50
C22	80.50	220.00	20.96	S79° 31' 28"E	80.05
C23	116.51	220.00	30.34	N84° 12' 48"W	115.15
C24	95.32	180.00	30.34	S84° 12' 48"E	94.21
C25	185.62	80.00	132.94	N34° 28' 50"W	146.70
C26	277.83	120.00	132.65	S34° 20' 12"E	219.80
C27	105.80	80.00	75.77	N69° 52' 34"E	98.26
C28	158.70	120.00	75.77	S69° 52' 34"W	147.38
C29	15.03	15.00	57.42	S43° 31' 38"E	14.41
C30	15.03	15.00	57.42	S79° 03' 06"W	14.41
C31	257.30	50.00	294.84	N17° 45' 44"E	53.85

DRIVEWAY AND UTILITY EASEMENT LINE TABLE		
Line #	Length	Direction
L15	70.01	N6° 41' 49.99"E
L16	16.04	N82° 17' 25.42"W
L17	17.28	S82° 17' 25.42"E
L18	77.10	N89° 59' 34.86"E
L19	77.10	S89° 59' 34.86"W
L20	71.18	N69° 02' 31.46"W
L21	71.18	S69° 02' 31.46"E
L22	226.00	S80° 36' 54.91"W
L23	225.51	N80° 36' 54.91"E
L24	119.77	N31° 59' 23.81"E
L25	119.77	S31° 59' 23.81"W
L26	41.22	N72° 14' 16.26"W
L27	41.22	S72° 14' 16.26"E

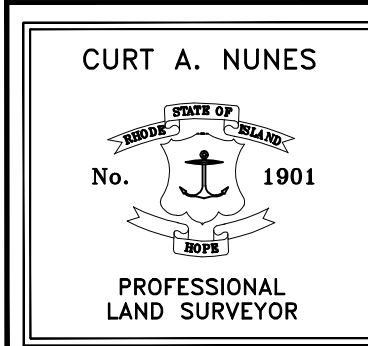
**SURVEY CERTIFICATION:**

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 REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON MARCH 16, 2020 AS FOLLOWS:

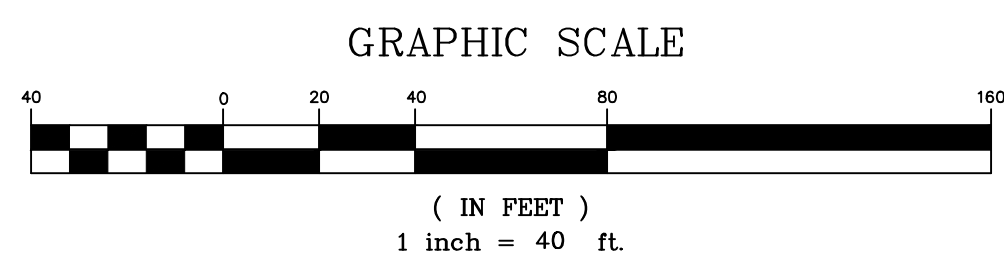
LIMITED CONTENT BOUNDARY SURVEY: CLASS I

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS TO ESTABLISH AND SET BOUNDARY LINES.

*Curt A. Nunes*  
 REGISTERED LAND SURVEYOR  
 DATE: 12/04/2024

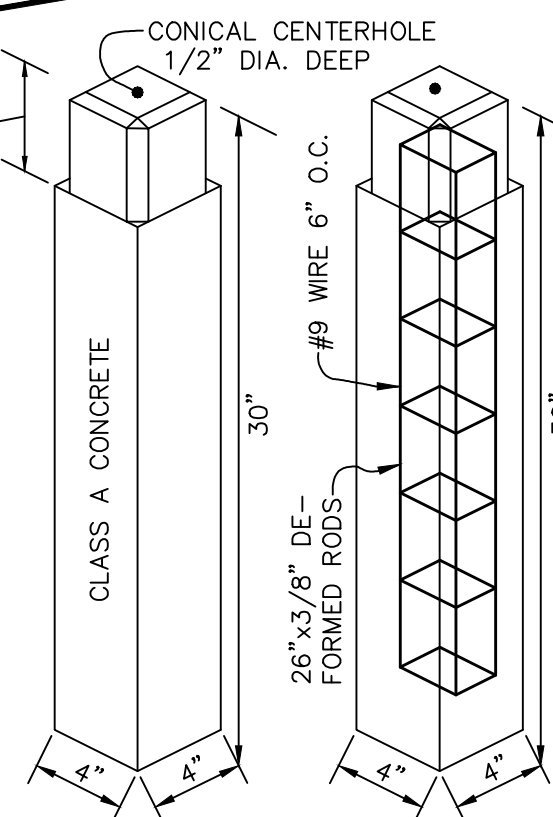


**COMMONWEALTH**  
 LAND SURVEYORS, INC.  
 4 PATRIOT STREET  
 ATTLEBORO, MASSACHUSETTS 02703  
 (508) 455-2634  
 C.O.A. # LS-A395



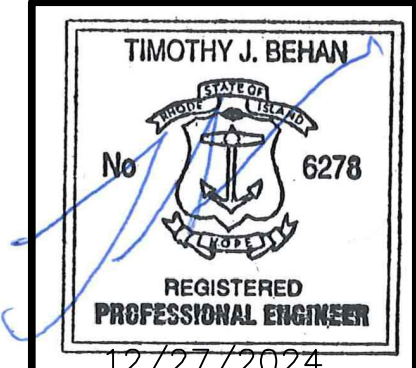
**PROPOSED RECORD PLAN**

SCALE: 1" = 40'



**NOTES:**

- 3/8" DEFORMED RODS TO CLEAR TOP AND BOTTOM BY 2".
- #9 WIRE TO CLEAR TOP AND BOTTOM BY 3".
- IN SIDEWALKS, LAWNS, OR DRIVES, BOUNDS TO BE 1/2" BELOW SURFACE.

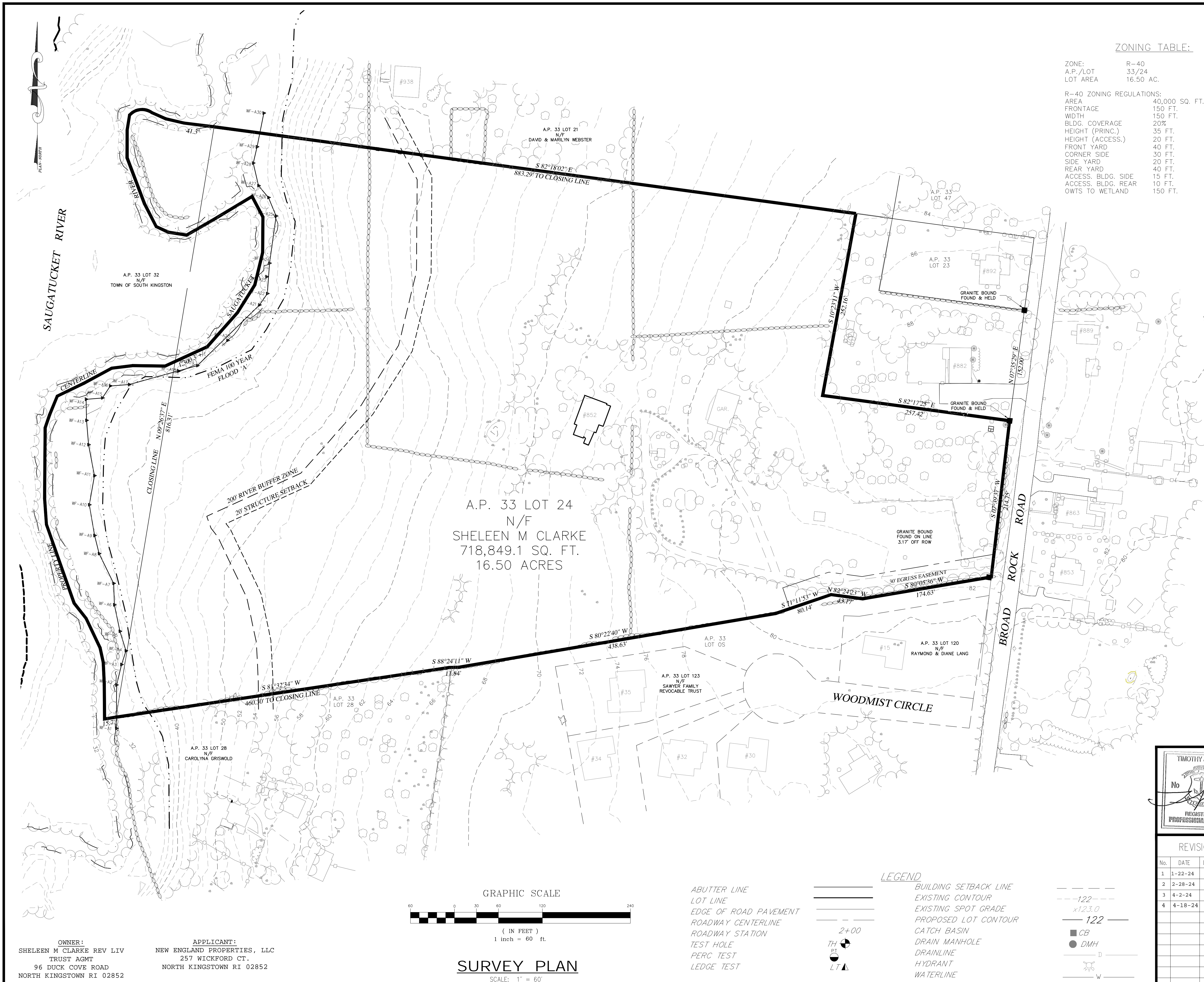


REVISIONS			
No.	DATE	DRWN	CHKD
1	4/2/24	TB	TB
2	4/18/24	TB	TB
3	9/6/24	SMA	TB
4	9/30/24	SMA	TB
5	10/21/24	SMA	TB
6	11/24/24	SMA	TB
7	12/27/24	SMA	TB



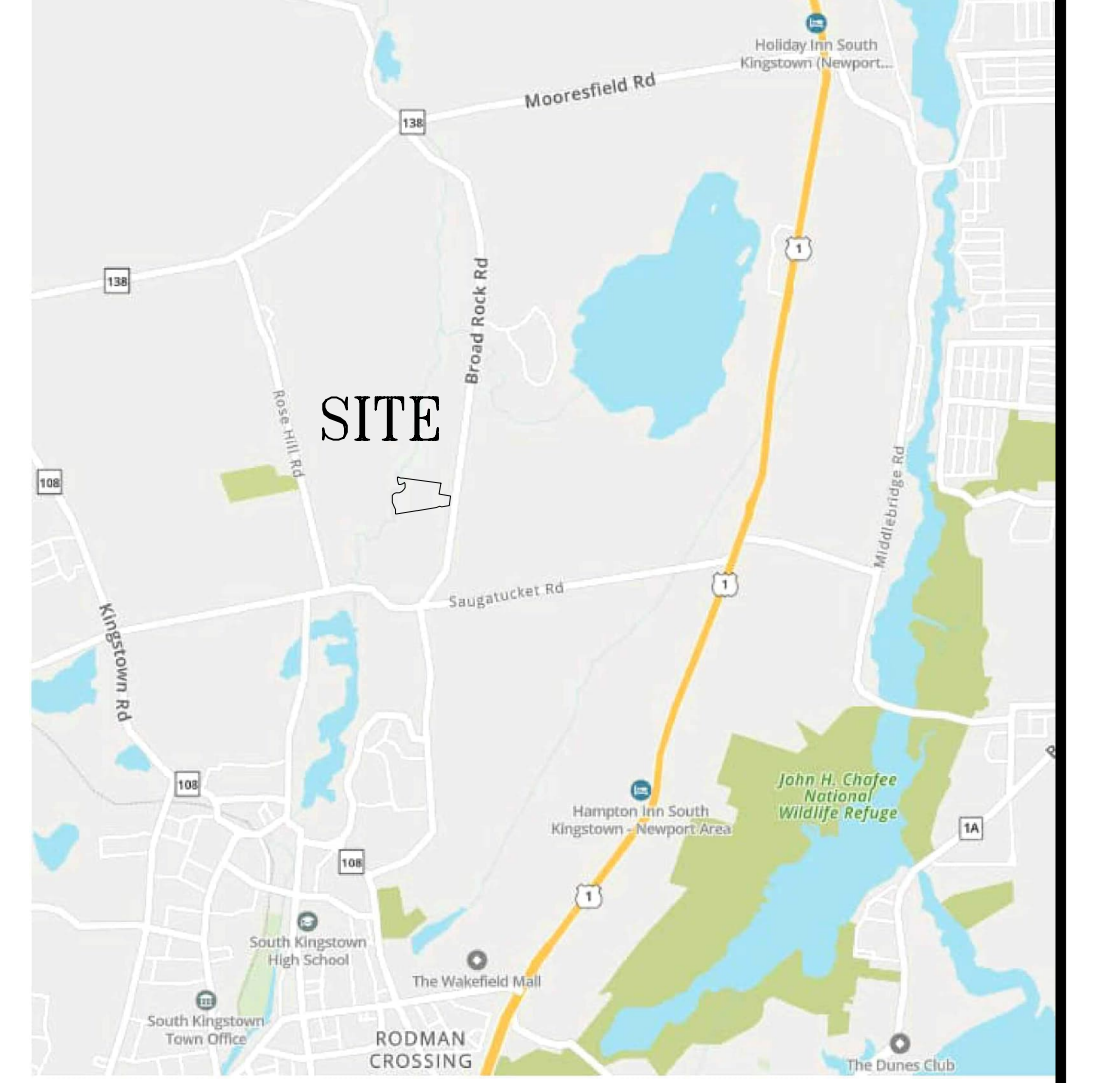
**PERMIT AGENCY REVIEW PLAN**  
 FOR  
 VILLAGE AT BROAD ROCK  
 PLAT 33, LOT 24  
 ON  
 BROAD ROCK ROAD  
 SOUTH KINGSTOWN, RHODE ISLAND  
**PROPOSED RECORD PLAN**

SCALE: AS SHOWN	SHEET NO: 17 OF 17
DRAWN BY: SMA	DESIGN BY: SMA
CHECKED BY: TJB	
DATE: FEBRUARY 2024	PROJECT NO 23011.00



**ZONING TABLE:**

ZONE:	R-40
A.P./LOT	33/24
LOT AREA	16.50 AC.
<b>R-40 ZONING REGULATIONS:</b>	
AREA	40,000 SQ. FT.
FRONTAGE	150 FT.
WIDTH	150 FT.
BLDG. COVERAGE	20%
HEIGHT (PRINC.)	35 FT.
HEIGHT (ACCESS.)	20 FT.
FRONT YARD	40 FT.
CORNER SIDE	30 FT.
SIDE YARD	20 FT.
REAR YARD	40 FT.
ACCESS. BLDG. SIDE	15 FT.
ACCESS. BLDG. REAR	10 FT.
OWTS TO WETLAND	150 FT.



**LOCUS MAP**  
NOT TO SCALE

- NOTES:**
1. WETLAND FLAGS DELINEATED BY AVIZINIS ENVIRONMENTAL SERVICES, INC. 2022.
  2. OFF SITE BUILDING LOCATIONS ARE APPROXIMATE AND HAVE BEEN TAKEN FROM AERIAL PHOTOGRAPHY.
  3. ELEVATIONS BASED ON NAVD88 VERTICAL DATUM.
  4. A SMALL PORTION OF SUBJECT SITE IS SITUATED IN FEMA 100-YR FLOOD ZONE 'A' AS DEPICTED ON MAP 44009C0201J, EFFECTIVE 4/3/2020. THE REMAINING PORTION OF THE SITE IS SITUATED IN ZONE 'X' WHICH IS AREA OF MINIMAL FLOOD HAZARD.

**LAND UNSUITABLE FOR DEVELOPMENT:**

WETLANDS	1.17 AC.
COASTAL WETLANDS	0.00 AC.
HIGH FLOOD DANGER ZONE	0.45 AC.
EASEMENTS (ABOVE GRND. UTILITY)	0.00 AC.

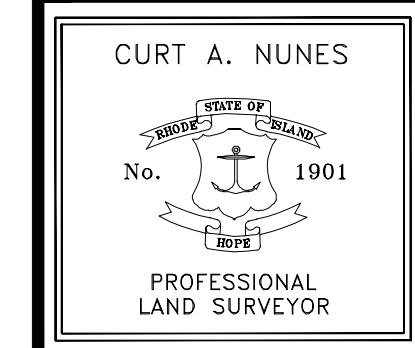
**SURVEY CERTIFICATION:**

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 REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON MARCH 16, 2020 AS FOLLOWS:

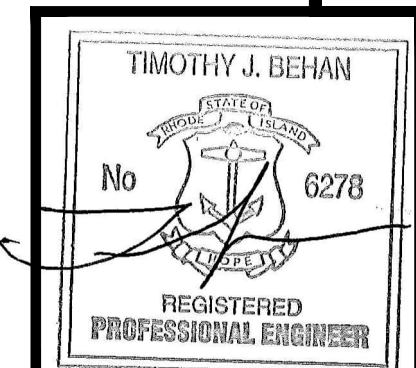
LIMITED CONTENT BOUNDARY SURVEY: CLASS I  
DATA ACCUMULATION SURVEY: CLASS III

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS TO ESTABLISH AND SET BOUNDARY LINES WITH TOPOGRAPHIC INFORMATION FOR FUTURE DEVELOPMENT.

*Curt A. Nunes*  
REGISTERED LAND SURVEYOR  
02/16/2023  
DATE



**COMMONWEALTH**  
LAND SURVEYORS, INC.  
4 PATRIOT STREET  
ATTLEBORO, MASSACHUSETTS 02703  
(508) 455-2634  
C.O.A. # LS-A395



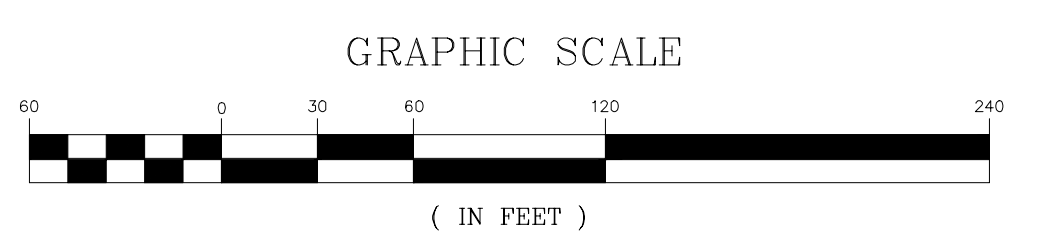
**COMMONWEALTH**  
ENGINEERS & CONSULTANTS, INC.  
400 SMITH STREET  
PROVIDENCE, RHODE ISLAND 02908  
401-273-6600

**REVISIONS**

No.	DATE	DRWN	CHKD
1	1-22-24	TB	TB
2	2-28-24	TB	TB
3	4-2-24	TB	TB
4	4-18-24	TB	TB

**SURVEY PLAN**  
for  
**PLAT 33, LOT 24**  
in  
SOUTH KINGSTOWN, RHODE ISLAND  
**SURVEY PLAN**

SCALE: 1"=60'	SHEET NO: 1 of 1
DRAWN BY: TB	DESIGN BY: TB
DATE: 02/16/23	CHECKED BY: TB
PROJECT NO.: P22001.00	



**SURVEY PLAN**  
SCALE: 1" = 60'

- LEGEND**
- ABUTTER LINE
  - LOT LINE
  - EDGE OF ROAD PAVEMENT
  - ROADWAY CENTERLINE
  - ROADWAY STATION
  - TEST HOLE
  - PERC TEST
  - LEDGE TEST

- BUILDING SETBACK LINE
- EXISTING CONTOUR
- EXISTING SPOT GRADE
- PROPOSED LOT CONTOUR
- CATCH BASIN
- DRAIN MANHOLE
- DRAINLINE
- HYDRANT
- WATERLINE

**OWNER:**  
SHELEEN M CLARKE REV LIV TRUST AGMT  
96 DUCK COVE ROAD  
NORTH KINGSTOWN RI 02852

**APPLICANT:**  
NEW ENGLAND PROPERTIES, LLC  
257 WICKFORD CT.  
NORTH KINGSTOWN RI 02852

# LANDSCAPE PLANS

## THE VILLAGE AT BROAD ROCK

LOCATED AT:

852 Broad Rock Road  
Assessor's Plat 33, Lot 24  
South Kingstown, Rhode Island

PREPARED FOR THE:

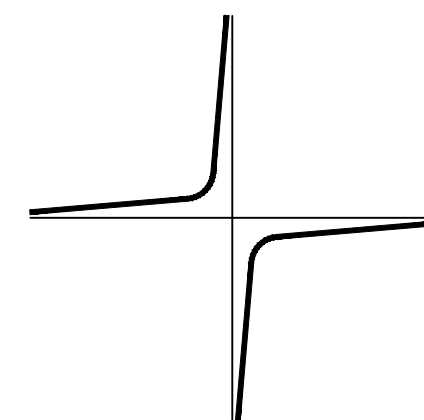
**NEW ENGLAND PROPERTIES, LLC**

257 Wickford Court  
North Kingstown, Rhode Island 02852

### SHEET INDEX

NUMBER	TITLE	ISSUED FOR REVIEW	ISSUED FOR PERMITTING	REVISIONS
	COVER SHEET			
1	OVERALL LANDSCAPE PLAN	11-18-2024		
2	LANDSCAPE PLAN - ENTRANCE	11-18-2024		
3	LANDSCAPE PLAN - INFILTRATION POND	11-18-2024		
4	LANDSCAPE PLAN - CUL-DE-SAC	11-18-2024		
5	LANDSCAPE NOTES & DETAILS	11-18-2024		

PREPARED BY:

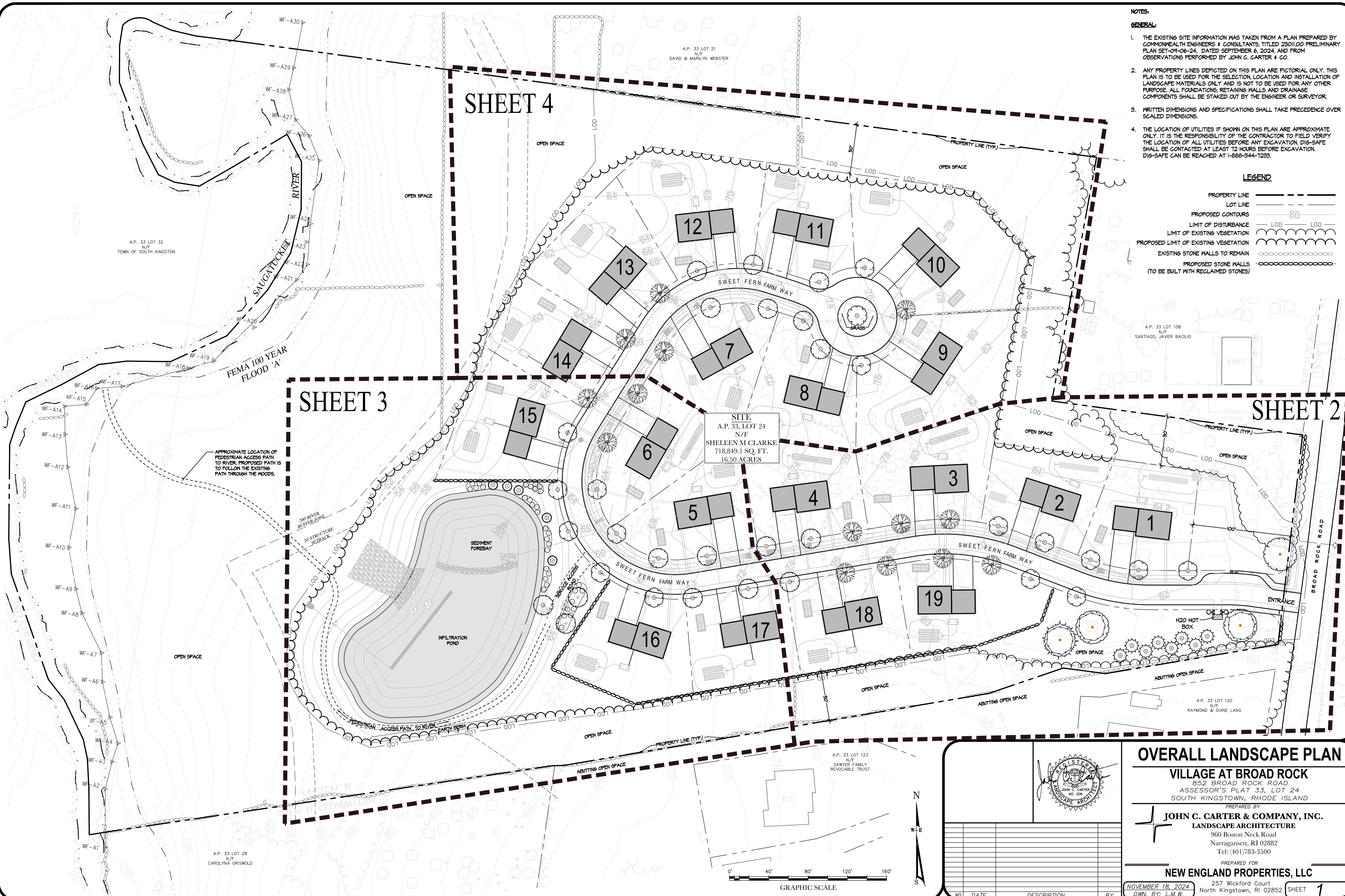
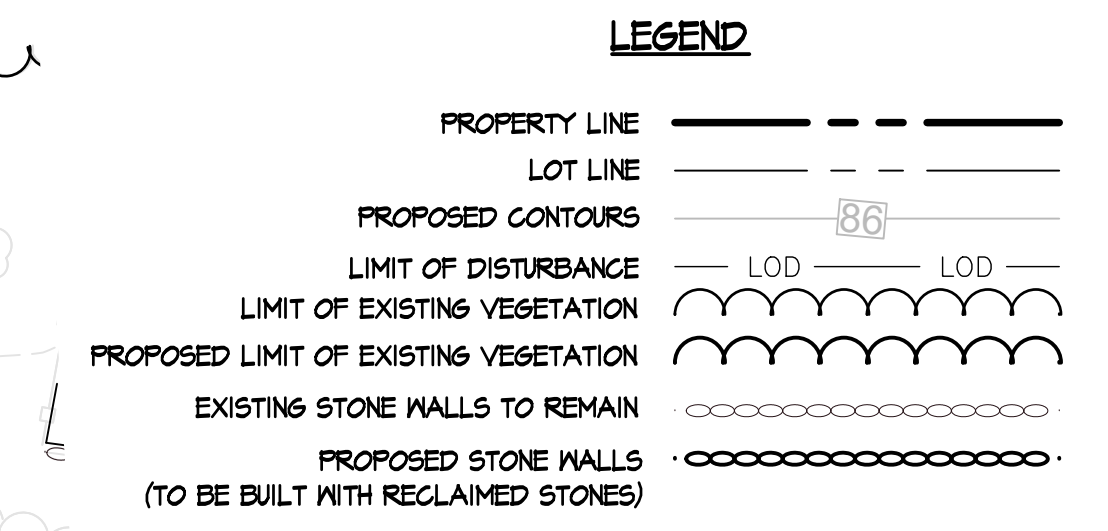


**JOHN C. CARTER & CO., INC.**

960 BOSTON NECK RD., NARRAGANSETT, RI  
(401) 783 - 3500

**LANDSCAPE ARCHITECTURE  
DESIGN & BUILD**

- NOTES:**
- GENERAL:**
1. THE EXISTING SITE INFORMATION WAS TAKEN FROM A PLAN PREPARED BY COMMONWEALTH ENGINEERS & CONSULTANTS, TITLED 23011.00 PRELIMINARY PLAN SET-04-06-24, DATED SEPTEMBER 6, 2024, AND FROM OBSERVATIONS PERFORMED BY JOHN C. CARTER & CO.
  2. ANY PROPERTY LINES DEPICTED ON THIS PLAN ARE PICTORIAL ONLY. THIS PLAN IS TO BE USED FOR THE SELECTION, LOCATION AND INSTALLATION OF LANDSCAPE MATERIALS ONLY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. ALL FOUNDATIONS, RETAINING WALLS AND DRAINAGE COMPONENTS SHALL BE STAKED OUT BY THE ENGINEER OR SURVEYOR.
  3. WRITTEN DIMENSIONS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
  4. THE LOCATION OF UTILITIES IF SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE ANY EXCAVATION. DIG-SAFE SHALL BE CONTACTED AT LEAST 12 HOURS BEFORE EXCAVATION. DIG-SAFE CAN BE REACHED AT 1-888-344-1293.



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**OVERALL LANDSCAPE PLAN**

**VILLAGE AT BROAD ROCK**  
 852 BROAD ROCK ROAD  
 ASSESSOR'S PLAT 33, LOT 24  
 SOUTH KINGSTOWN, RHODE ISLAND

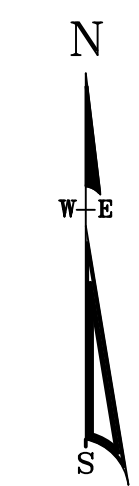
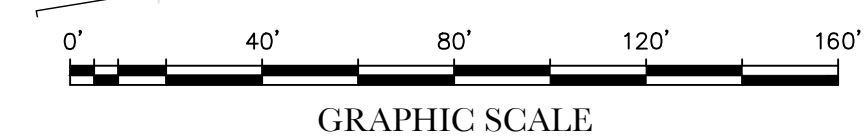
PREPARED BY  
**JOHN C. CARTER & COMPANY, INC.**  
 LANDSCAPE ARCHITECTURE  
 960 Boston Neck Road  
 Narragansett, RI 02882  
 Tel: (401)783-3500

REGISTERED LANDSCAPE ARCHITECT

PREPARED FOR  
**NEW ENGLAND PROPERTIES, LLC**  
 257 Wickford Court  
 North Kingstown, RI 02852

NOVEMBER 18, 2024  
 DWN. BY: L.M.W.

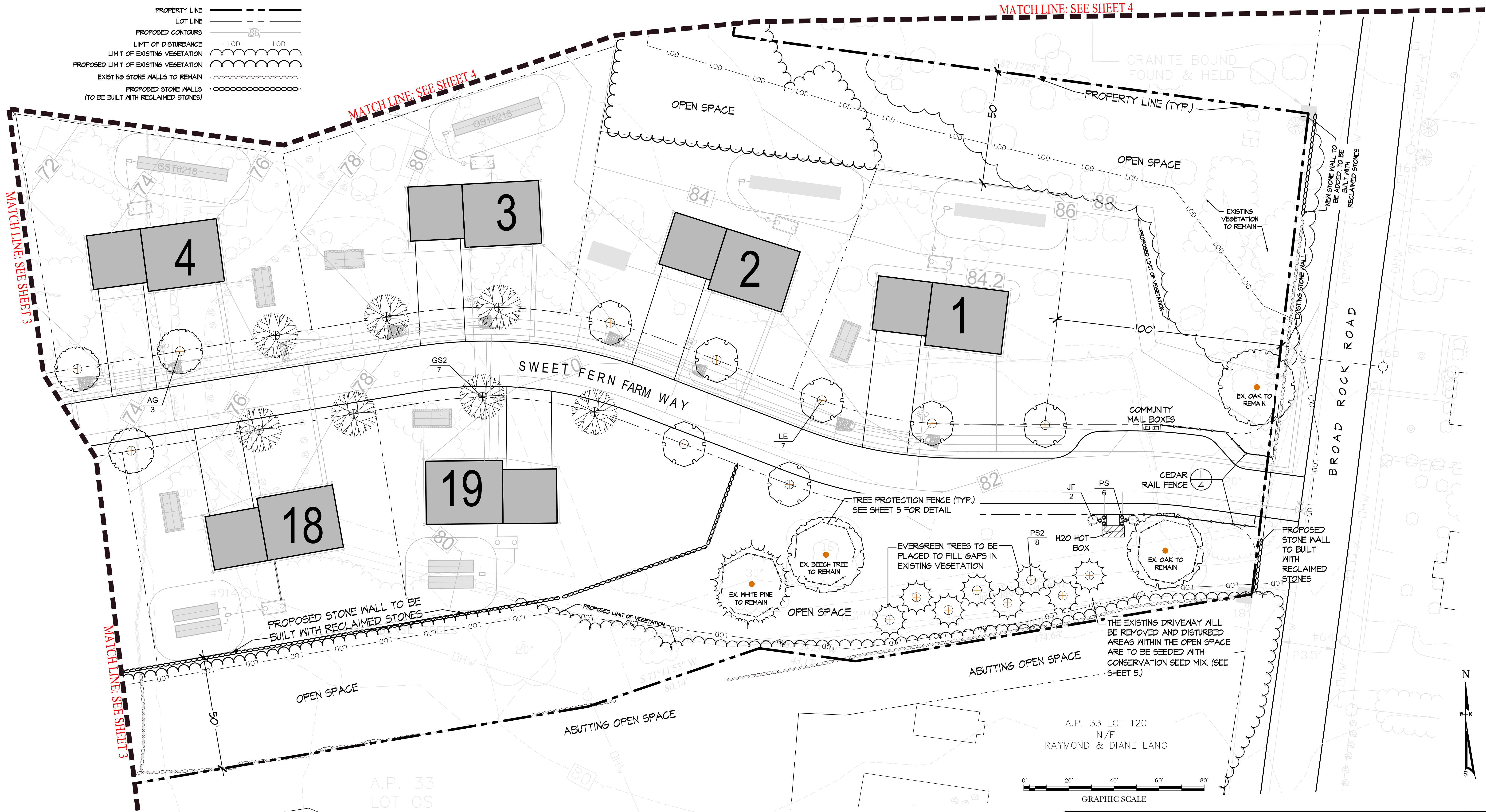
SHEET 1



NO.	DATE	DESCRIPTION	BY

**LEGEND**

- PROPERTY LINE ————
- LOT LINE ————
- PROPOSED CONTOURS 86
- LIMIT OF DISTURBANCE — LOD — LOD —
- LIMIT OF EXISTING VEGETATION
- PROPOSED LIMIT OF EXISTING VEGETATION
- EXISTING STONE WALLS TO REMAIN
- PROPOSED STONE WALLS (TO BE BUILT WITH RECLAIMED STONES)

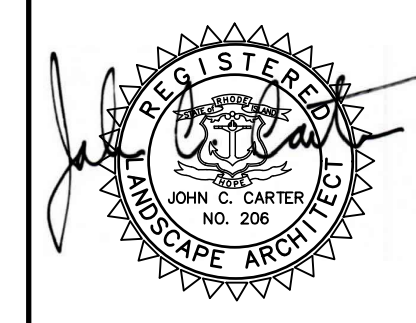


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A.P. 33 LOT 123  
N/F  
SAWYER FAMILY  
REVOCABLE TRUST

**PLANT SCHEDULE - SHEET 2**

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AG	3	ACER RUBRUM 'OCTOBER GLORY' TM	OCTOBER GLORY MAPLE	1-1/2 TO 2" CAL.
GS2	7	GLEDITSIA TRIACANTHOS 'INERMIS' 'SHADEMASTER' TM	SHADEMASTER LOCUST	1-1/2 TO 2" CAL.
LE	7	LIQUIDAMBAR STYRACIFLUA 'HAPPIDAZE'	SWEET GUM	1-1/2 TO 2" CAL.
PS2	8	PINUS STROBUS	WHITE PINE	7-8' HT.
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE
JF	2	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	24-30" HT.
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
PS	6	PANICUM VIRGATUM 'SHENENDOAH'	BURGUNDY SWITCH GRASS	2 GAL



NO. DATE DESCRIPTION BY

**LANDSCAPE PLAN**  
**VILLAGE AT BROAD ROCK**  
852 BROAD ROCK ROAD  
ASSESSOR'S PLAT 33, LOT 24  
SOUTH KINGSTOWN, RHODE ISLAND

PREPARED BY  
**JOHN C. CARTER & COMPANY, INC.**  
LANDSCAPE ARCHITECTURE  
960 Boston Neck Road  
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257 Wickford Court  
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NOVEMBER 18, 2024  
DWN. BY: L.M.W. SHEET **2**





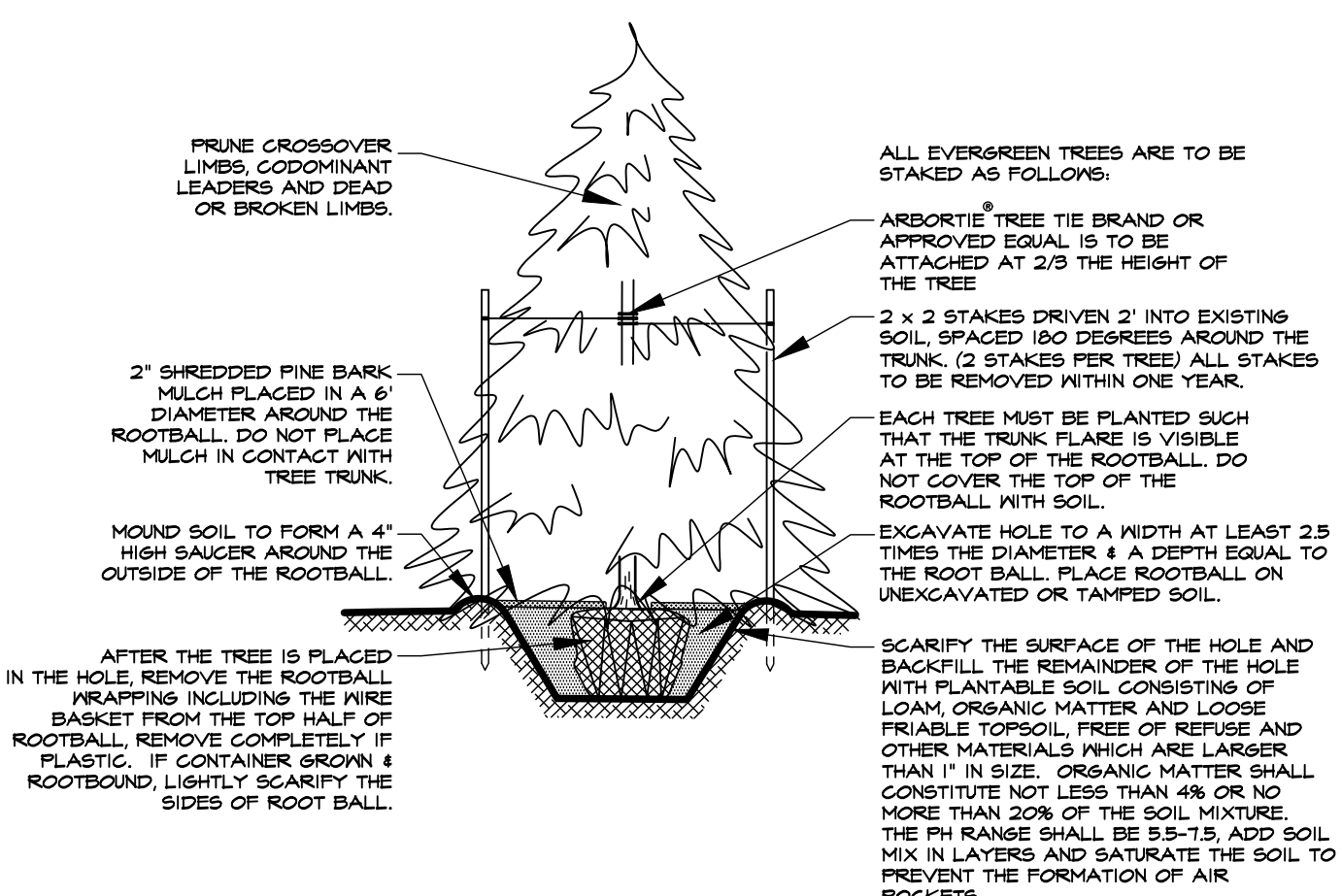
**PLANTING BED PREPARATION:**

ALL PLANTING BEDS ARE TO BE TREATED AS FOLLOWS:

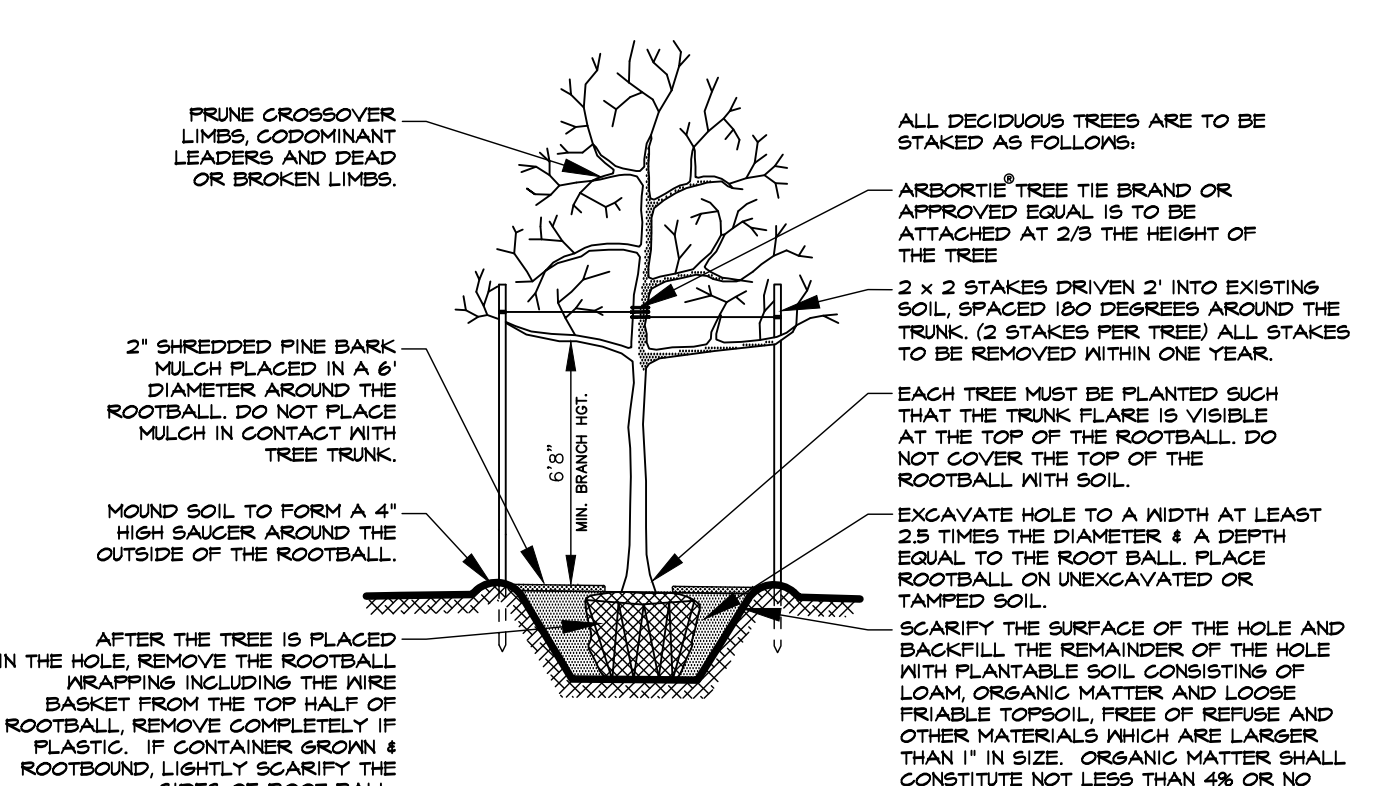
1. ALL PLANTING BEDS ARE TO BE EXCAVATED TO A DEPTH OF 8" BELOW FINISHED GRADE.
2. THE BOTTOM OF THE PLANTING BEDS ARE TO BE SCARIFIED TO ENCOURAGE DRAINAGE AND PREVENT COMPACTION.
3. ALL PLANTING BEDS ARE TO BE BACKFILLED WITH 8" OF LOOSE, FRIABLE, ORGANIC LOAM OR COMPOST.

**PLANTING:**

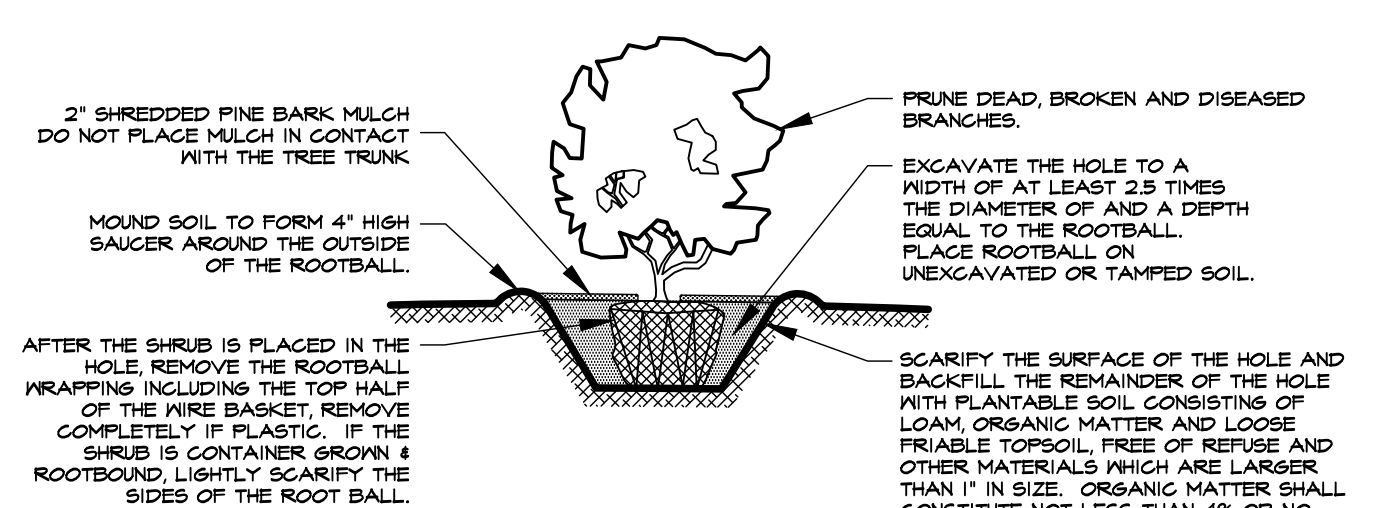
1. PROVIDE QUALITY PLANTS IN THE GENUS, SPECIES AND VARIETY INDICATED IN THE PLANT SCHEDULE, COMPLYING WITH APPLICABLE REQUIREMENTS OF "ANSI Z601 AMERICAN STANDARD FOR NURSERY STOCK."
  2. PROVIDE PLANTS IN THE SIZE AND NUMBER INDICATED IN THE PLANT SCHEDULE. IT IS RECOMMENDED THAT ALL PLANTS BE GROWN IN NURSERIES LOCATED IN THE NORTHEASTERN U.S.
  3. DELIVER FRESH DIG TREES WHICH ARE BALLED AND BURLAPPED, AND SHRUBS WHICH ARE BALLED AND BURLAPPED OR IN NURSERY CONTAINERS. ALL PLANTS ARE TO BE HEALTHY, VIGOROUS AND FREE OF INSECTS AND DISEASE.
  4. PLANTS ARE TO BE INSTALLED AS SPECIFIED IN THE PLANTING DETAILS WITH ADEQUATE WATER PROVIDED DURING PLANTING TO ALLOW COMPACTION OF THE PLANTING SOIL TO PREVENT ANY AIR POCKETS OR SETTLEMENT AFTER PLANTING.
  5. SHRUBS ARE TO BE PLANTED IN GROUPINGS AS SHOWN ON THE PLAN. MULCH BEDS SHALL SURROUND EACH GROUPING OF PLANTS. AN EDGE SHALL BE CUT WITH A SPADE TO SEPARATE THE BED FROM THE GRASS.
  6. ALL PLANTING BEDS ARE TO BE COVERED WITH 2" SHREDDED PINE BARK MULCH.
1. AFTER THE TREES AND SHRUBS ARE PLANTED, THE DISTURBED AREAS BETWEEN THE PLANTING BEDS SHALL BE SODDED OR LOAMED AND SEEDED WITH A SEED MIX AS SPECIFIED IN THE SEEDING NOTES.
8. ALL DECIDUOUS AND EVERGREEN TREES OVER 5' TALL ARE TO BE STAKED AS SHOWN IN THE PLANTING DETAILS. TREES ARE TO REMAIN PLUMB AND SHALL BE ADJUSTED AS NEEDED. ALL STAKES AND ARBOR TIES ARE TO BE MAINTAINED AND ADJUSTED TO PREVENT GIRDLING OF THE TRUNK AND REMOVED WHEN NO LONGER NEEDED.
4. PLANT SUBSTITUTIONS SHALL BE ALLOWED BASED ON AVAILABILITY AND SITE CONDITIONS. SUBSTITUTIONS MAY BE MADE ONLY WITH DIRECT APPROVAL FROM THE LANDSCAPE ARCHITECT OR OWNER.



EVERGREEN TREE PLANTING DETAIL  
NOT TO SCALE  
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TREE PLANTING DETAIL  
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SHRUB PLANTING DETAIL  
NOT TO SCALE  
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**LAYOUT:**

1. AFTER THE PLANTING BEDS ARE PREPARED, THE PLANTS SHALL BE PLACED ON THE GROUND WHERE SHOWN ON THE PLAN.
2. THE PLANTS SHALL BE ORIENTED IN SUCH A MANNER TO RESULT IN THE MOST UNIFORM AND VIGOROUS SIDE OF THE PLANT FACING THE FRONT.
3. AT THE DIRECTION OF THE OWNER, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED AND MAY INSPECT AND APPROVE THE LAYOUT BEFORE THEY ARE PLANTED.
4. ANY SUBSTITUTIONS OF LANDSCAPE MATERIALS SHALL BE SUBJECT TO THE PRIOR WRITTEN APPROVAL OF THE ADMINISTRATIVE OFFICE.

**MAINTENANCE & WARRANTY:**

1. THE CONTRACTOR SHALL WARRANTY ALL PLANTS FOR A PERIOD OF TWO YEARS AFTER THE DATE OF SUBSTANTIAL COMPLETION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH.
2. AFTER PLANTING IS COMPLETED, THE OWNER SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE WATER TO ENSURE HEALTHY AND VIGOROUS GROWTH.
3. ANY PLANT WHICH IS NOT HEALTHY AND GROWING VIGOROUSLY AFTER ONE YEAR SHALL BE REPLACED BY THE CONTRACTOR IN CONFORMANCE WITH THE PLANTING SPECIFICATIONS.
4. IF NECESSARY, THE CONTRACTOR SHALL OVERSEED OR SOD ANY AREAS WHICH ARE NOT SUBSTANTIALLY COVERED BY ADEQUATE GRASS GROWTH FOR ONE YEAR AFTER THE INITIAL SEED APPLICATION.

**SEEDING**

AREAS DISTURBED WITHIN THE OPEN SPACE SHALL BE SEEDED AS FOLLOWS:

**ALLEN'S CONSERVATION MIX**

- 25% PERENNIAL RYE
- 25% CREEPING RED FESCUE
- 25% ANNUAL RYE
- 17% TALL FESCUE
- 5% KENTUCKY BLUE GRASS
- 1% COLONIAL BENTGRASS
- 1% RED TOP
- 1% WHITE CLOVER

1. AFTER THE SEED BED IS RAKED LEVEL, THE AREA IS TO BE HYDRO-SEEDED. THE HYDRO-SEED SHALL BE APPLIED EVENLY OVER THE SURFACE WITH A BONDED 100% WOOD FIBER MATRIX USING ACCEPTED HORTICULTURAL PRACTICES. THE SLURRY SHALL INCLUDE WATER, SEED, WOOD FIBER AND A HIGH PHOSPHORUS STARTER FERTILIZER.
2. RATHER THAN HYDRO-SEEDING AS DESCRIBED ABOVE, WITH PERMISSION FROM THE OWNER, THE CONTRACTOR MAY BROADCAST SEED. PRIOR TO SEEDING, FERTILIZE WITH A STARTER FERTILIZER APPLIED AT THE MANUFACTURER'S RECOMMENDED RATES. SEED SHALL BE BROADCAST EVENLY OVER THE PREPARED SURFACE AND WORKED INTO THE TOP 1" OF SOIL.

**SEED SPECIFICATIONS**

- PROVIDE QUALITY SEED AS DESCRIBED IN THE SEED MIX.
- ALL SEED IS TO BE VIABLE, HEALTHY AND FREE OF INSECTS AND DISEASE.
- SEED IS TO BE INSTALLED AS SPECIFIED IN THE SEEDING NOTES WITH ADEQUATE WATER PROVIDED TO ESTABLISH A HEALTHY GRASS CATCH.
- RECOMMENDED SEEDING DATES ARE APRIL 1 TO JUNE 30 AND AUGUST 15 TO NOVEMBER 15. LATE FALL AND WINTER DORMANT SEEDING REQUIRE AN INCREASE IN THE SEEDING RATE.
- SEED SUBSTITUTIONS SHALL BE ALLOWED BASED ON AVAILABILITY ONLY WITH DIRECT APPROVAL FROM THE LANDSCAPE ARCHITECT OR OWNER.

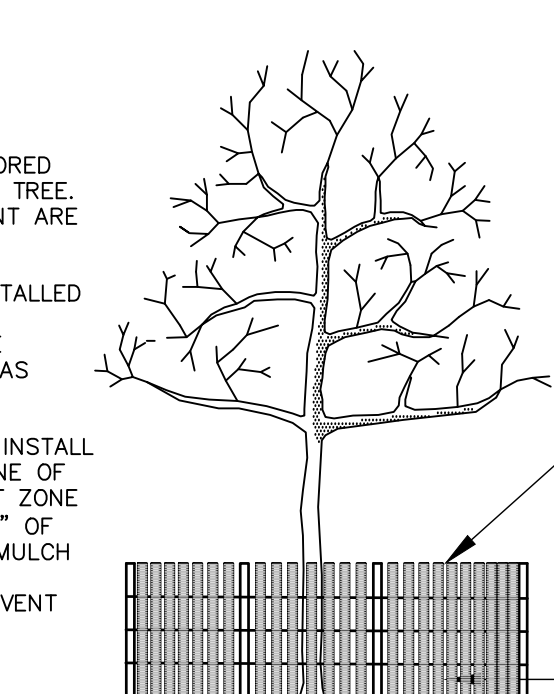
**NOTE**

ALL TREES AND SHRUBS HAVE BEEN SELECTED FROM THE PUBLICATION ENTITLED "SUSTAINABLE TREES AND SHRUBS FOR SOUTHERN NEW ENGLAND," (UNIVERSITY OF RHODE ISLAND AND UNIVERSITY OF MASSACHUSETTS COOPERATIVE EXTENSION SYSTEMS, 1995, AND WERE SELECTED FOR SUITABILITY FOR THE LOCATION



**1 CEDAR RAIL FENCE**

NOTE: NO CONSTRUCTION MATERIALS ARE TO BE STORED WITHIN THE DRIFLINE OF A TREE. NO VEHICLES OR EQUIPMENT ARE TO BE DRIVEN WITHIN THE DRIFLINE OF A TREE. TREE PROTECTION SHALL BE INSTALLED IF EXCAVATION IS BEING CONDUCTED CLOSE TO THE DRIFLINE OF A TREE AND AS NECESSARY.



TREE PROTECTION DETAIL  
NOT TO SCALE

**TREE PROTECTION NOTES**

1. INDIVIDUAL TREES WHICH HAVE BEEN DESIGNATED TO REMAIN SHALL BE PROMINENTLY FLAGGED WITH SURVEYORS RIBBON AND LABELED "DO NOT CUT" WITH A WEATHERPROOF MARKER.
2. AN ON SITE COORDINATION MEETING SHALL TAKE PLACE BEFORE ANY EXCAVATION OCCURS TO DISCUSS TREE PROTECTION. PRESENT AT THE MEETING SHALL BE THE GENERAL CONTRACTOR, EXCAVATING CONTRACTOR AND OWNER OR OWNER'S REPRESENTATIVE.
3. TREES ARE TO BE EVALUATED FOR STRUCTURAL INTEGRITY BY A LICENSED ARBORIST. DEAD DISEASED OR BROKEN LIMBS ARE TO BE REMOVED USING ACCEPTED ARBORICULTURAL PRACTICES. HAZARDOUS TREES OR LIMBS ARE TO BE REMOVED.
4. BEFORE ANY EXCAVATION OR CONSTRUCTION COMMENCES, A WOODEN OR PLASTIC 'SNOW FENCING' OR A SIMILAR BARRIER SHALL BE INSTALLED AROUND THE PERIMETER AT DRIP LINE OF ALL TREES DESIGNATED TO REMAIN.
5. THERE SHALL BE NO EXCAVATION, TRENCHING, EQUIPMENT OR MATERIAL STORAGE, OR STOCKPILING OF SOIL UNDER THE DRIP LINE OF ANY TREE TO BE PRESERVED. NO EXISTING SOIL, STONE OR VEGETATION SHALL BE REMOVED AND NO VEHICLES OR EQUIPMENT ARE TO BE DRIVEN WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED.

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NO. DATE DESCRIPTION BY

**LANDSCAPE NOTES & DETAILS**

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