

SILT FENCE DETAIL
NOT TO SCALE

TEMPORARY AND/OR PERMANENT EROSION CONTROL DEVICES SUCH AS BALED HAY, SILT FENCING, ETC. SHALL BE INSTALLED PRIOR TO ANY CLEARING OR EXCAVATION. HAY BALES OR SILT FENCING SHALL BE PLACED IMMEDIATELY DOWN SLOPE AND ADJOINING AREAS OF SOIL DISTURBANCE AND STOCKPILES. INSTALLATION OF ALL EROSION CONTROL DEVICES SHALL BE CONDUCTED IN ACCORDANCE TO DETAIL SPECIFICATIONS.

CLEARING OF EXISTING VEGETATION SHALL BE DONE IN A CONTROLLED MANNER SO AS TO AVOID EXTENSIVE AREAS OF DEFOLIATED TERRAIN SUBJECT TO EROSION. AREAS SO DISTURBED SHALL BE BROUGHT TO FINAL GRADES AND STABILIZED AS SOON AS POSSIBLE.

DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.

ALL EROSION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS DURING CONSTRUCTION, ESPECIALLY AFTER EACH RAINFALL.

DUE TO CHANGING CHARACTERISTICS OF THE SITE CAUSED BY AND DURING CONSTRUCTION ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE CONDITIONS WARRANT.

IF CONSTRUCTION IS SUSPENDED, ALL DISTURBED AREAS SHALL BE SEEDED AND ALL NECESSARY EROSION CONTROL DEVICES SHALL BE IN PLACE AND IN GOOD WORKING ORDER. IF SEEDING IS NOT POSSIBLE THEN EROSION CONTROL MATS SHALL BE PLACED OVER ALL DISTURBED SOIL. EROSION CONTROL BLANKETS (MATS) SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS. EROSION CONTROL BLANKETS (MATS) SHALL BE MANUFACTURED BY NORTH AMERICAN GREEN (NAG) OR APPROVED EQUIVALENT AND INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.

ALL EROSION CONTROL METHODS, MATERIALS AND MAINTENANCE SHALL BE DONE IN ACCORDANCE WITH THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK".

ALL AREAS WHICH ARE DISTURBED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST 6" MINIMUM DEPTH OF GOOD QUALITY LOAM AND ALL SOIL AMENDMENTS DEEMED NECESSARY. THE AREA SHALL BE SEEDED WITH A QUICK GERMINATING GRASS SEED SUCH AS URI #2 OR APPROVED EQUIVALENT.

THE CONTRACTOR SHALL PROVIDE FOR ALL SEEDED AREAS TO BE WATERED AND IN GOOD CONDITION UNTIL A GOOD HEALTHY AND UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA.

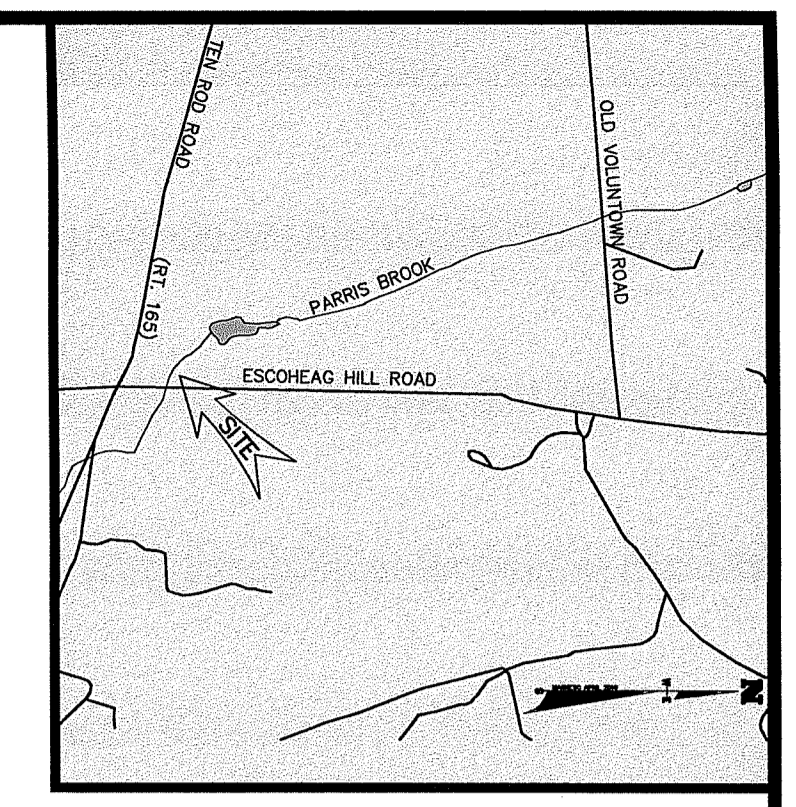
NOTE: INSTALL SILT FENCE ALONG LIMIT OF DISTURBANCE.

SOIL STRATA "A"
GROUND ELEVATION = 268.34
BY JWF : 4-14-10

0'	A0	FINE SANDY LOAM, VERY FRAGILE 10% SILT, SOIL CATEGORY #4
1'	B1	FINE SANDY LOAM, VERY FRAGILE 10% SILT, SOIL CATEGORY #4
2'	B2	SILT LOAM, FRAGILE 2.5% SILT, SOIL CATEGORY #7
3'		VERIFIED WATER TABLE DEPTH = 48" APPLIC. # 1011-0266
20'		LOAMY SAND, LOOSE 2.5% SILT, SOIL CATEGORY #1

SOIL STRATA "B"
GROUND ELEVATION = 267.86
BY JWF : 4-14-10

0'	A0	FINE SANDY LOAM, VERY FRAGILE 10% SILT, SOIL CATEGORY #4
1'	B1	FINE SANDY LOAM, VERY FRAGILE 10% SILT, SOIL CATEGORY #4
2'		VERIFIED WATER TABLE DEPTH = 48" APPLIC. # 1011-0266
20'		LOAMY SAND, LOOSE 2.5% SILT, SOIL CATEGORY #1



LOCATION PLAN
SCALE: 1" = 2000'

SITE INFORMATION

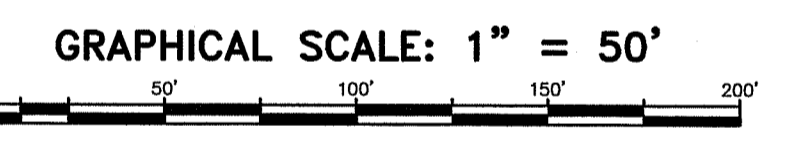
LOT:	2 & 3
ASSESSOR'S MAP:	28
LOT AREA:	794,843 SF
ZONING DISTRICT:	CR-5
TOWN REQUIREMENTS	REQUIRED
LOT AREA:	5 ACRES
LOT WIDTH:	350 FEET
FRONT SETBACK:	150 FEET
SIDE SETBACK:	100 FEET
REAR SETBACK:	150 FEET
LOT COVERAGE:	10%
BUILDING HEIGHT:	40 FEET

BUILDING COVERAGE

EXISTING	
EXISTING HOUSE AREA	2,846 SF
EXISTING SHED	68 SF
EXISTING BARN	1123 SF
EXISTING OUTBUILDING	29 SF
TOTAL EXISTING COVERAGE AREA	4,065 SF
EXISTING SITE COVERAGE	0.5%
PROPOSED	
PROPOSED HOUSE	4,684 SF
PROPOSED BARN	1,224 SF
TOTAL PROPOSED COVERAGE AREA	5,908 SF
TOTAL PROPOSED SITE COVERAGE	0.7%

LEGEND

—	PROPERTY LINE
⊕	UTILITY POLE
x97.5	SPOT GRADE
- - -	EXISTING CONTOUR
—	WATER LINE
⊗	WATER VALVE
⊙	TEST PIT
□	BOUND
○	IRON PIN
—	TREE/BRUSH LINE
—	FENCE LINE
—	SILT FENCE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JAN 13 2020 FILE # 19-0292
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE!
Nancy L. Freeman

CERTIFICATION:

This survey has been conducted on April 29, 2014 and the plan has been prepared pursuant to 435-RICR-00-00-1.5 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON November 25, 2015, as follows:

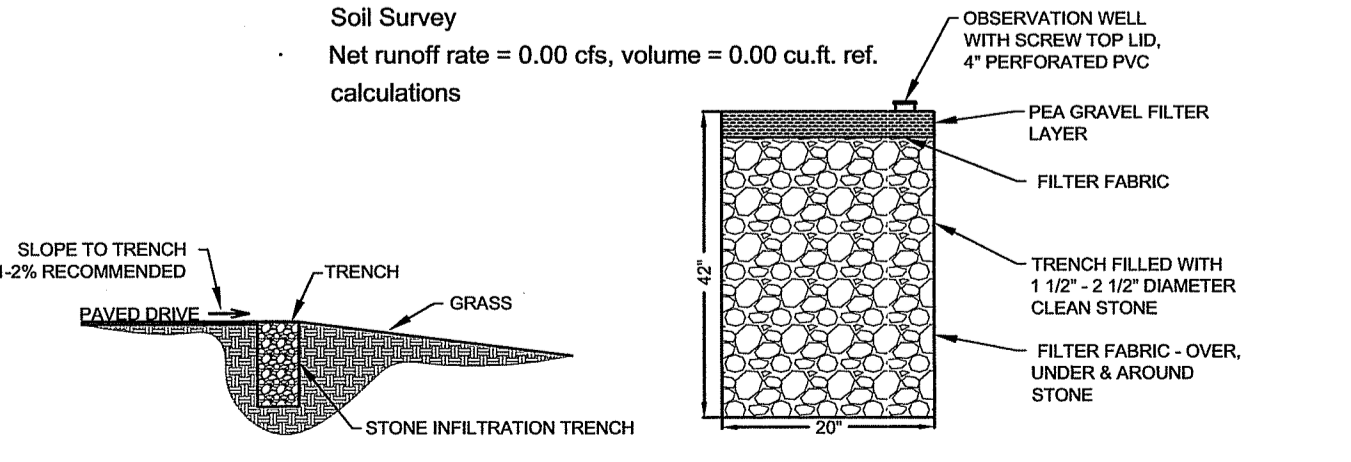
Type of Boundary Survey:	Measurement Specification:
Not a Boundary Survey	
Other Type of Survey:	III
Data Accumulation Survey (By Onsite Instrument Survey)	
Topographic Standard:	T-2
Vertical Control Standard:	V-3

The purpose for the conduct of the survey and the preparation of the plan is as follows:
This plan is intended for the design and permitting of an Onsite Wastewater Treatment System for the subject parcel shown hereon.
This plan is intended to show the location of existing and proposed improvements for regulatory and municipal applications.

BY: *Jeffrey K. Balch* DATE: 9/30/2019
JEFFREY K. BALCH, RI PROFESSIONAL LAND SURVEYOR #1839
CERTIFICATE OF AUTHORIZATION #A535.

DESIGN CRITERIA INFILTRATION TRENCH:

- 10-Year, 24-hour storm event, total rainfall = 4.9 inches.
- Driveway - impervious area = 4,335 SF
- Infiltration rate of 8.27 in./hr for sand, based on Web
- Soil Survey
- Net runoff rate = 0.00 cfs, volume = 0.00 cu.ft. ref. calculations



INFILTRATION TRENCH
NOT TO SCALE

NOTE: BOTTOM OF INFILTRATION TRENCH SHALL BE IN "C" LAYER, SAND, 4" BELOW GRADE. BOTTOM TRENCH = 40.50, TOP TRENCH = 44.00 TOTAL LENGTH = 235'

- GENERAL:**
- ACCORDING TO THE RIDEM ENVIRONMENTAL RESOURCE MAP, THIS SITE IS NOT LOCATED WITHIN A CRITICAL RESOURCE AREA.
 - ACCORDING TO THE RIDEM ENVIRONMENTAL RESOURCE MAP, THIS SITE IS NOT LOCATED WITHIN A NATURAL HERITAGE AREA.
 - ACCORDING TO THE TOWN OF EXETER GIS SITE, THIS SITE IS NOT LOCATED IN A GROUND WATER OVERLAY DISTRICT.

FEMA DESIGNATIONS:
THE SUBJECT PROPERTY DEPICTED HEREON APPEARS TO BE WITHIN ZONES X & A, REFERENCE FEMA FLOOD INSURANCE RATE MAP 44099C0035H, DATED OCTOBER 19, 2010.

UTILITIES:
THE LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY AND HAVE BEEN SHOWN USING THE BEST AVAILABLE DATA.

THE CONTRACTOR SHALL CONTACT "DIG-SAFE" AND/OR OTHER APPROPRIATE UTILITY COMPANIES TO ASCERTAIN THE EXACT LOCATION OF THE RESPECTIVE UTILITY PRIOR TO CONSTRUCTION. UTILITIES INCLUDE BUT ARE NOT LIMITED TO GAS, ELECTRIC, WATER, TELEPHONE CABLE TV, ETC.

STRUCTURE:
THE EXISTING 2-BEDROOM DWELLING IS TO BE RAZED. A NEW 4-BEDROOM DWELLING TO BE CONSTRUCTED IN THE LOCATION SHOWN.

EXISTING OWTS:
THE LOCATION OF EXISTING OWTS COMPONENTS ARE APPROXIMATE. THE EXISTING OWTS IS TO BE ABANDONED. THE SEPTIC TANK SHALL BE PUMPED DRY, CRUSHED, AND FILLED WITH CLEAN MATERIAL. IF ANY UNSUITABLE MATERIAL FROM THE EXISTING OWTS IS ENCOUNTERED DURING CONSTRUCTION IT IS TO BE REMOVED FROM THE SITE AND DISPOSED OF BOTH PROPERLY AND LEGALLY.

FRISELLA - BALCH & ASSOCIATES
LAND SURVEYORS
33 NORTH RD. SUITE C-201
PEACE DALE, RI
PHONE (401) 783-5949
FAX (401) 783-5997
www.friseλλα.com

NO.	DATE	DESCRIPTION	BY
4	9-13-2019	REDUCED FILL IN WETLANDS, BUFFER PLANTINGS	IB
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PLAN OF PROPOSED IMPROVEMENTS

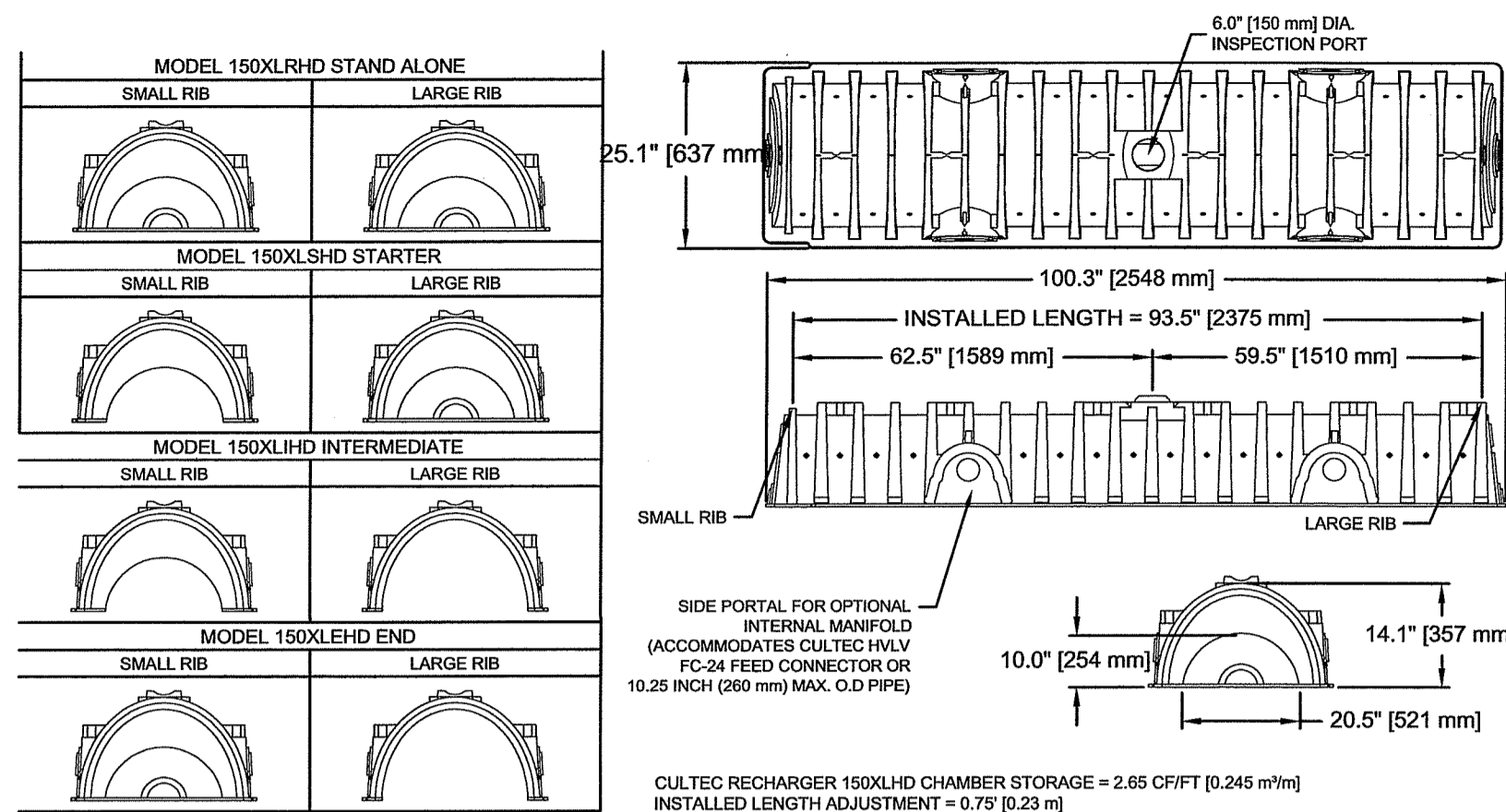
LOCATED ON:
LOTS 2 & 3 OF ASSESSORS MAP 28

OWNED BY:
MICHAEL L. SLINEY

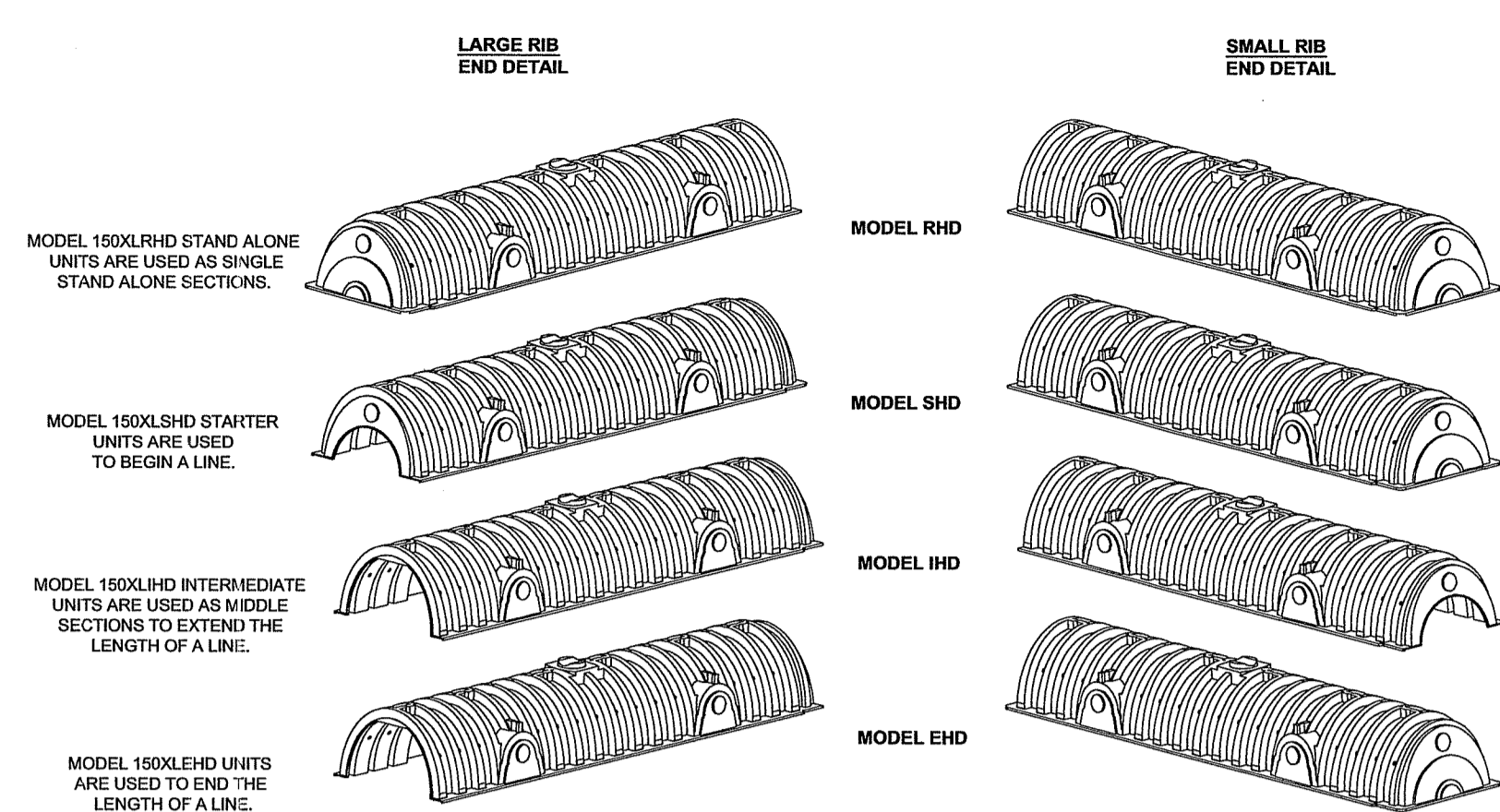
ADDRESS:
371 ESCOHEAG HILL ROAD
IN THE TOWN OF EXETER, RI

MAY 22, 2019
DESIGNED BY:
JEFFREY K. BALCH, P.L.S.
SCALE: 1" = 50'
DRAWN BY:
CAC, IBV
CHECKED BY:
JKB
DRAWING NO.
SHEET 1 OF 2

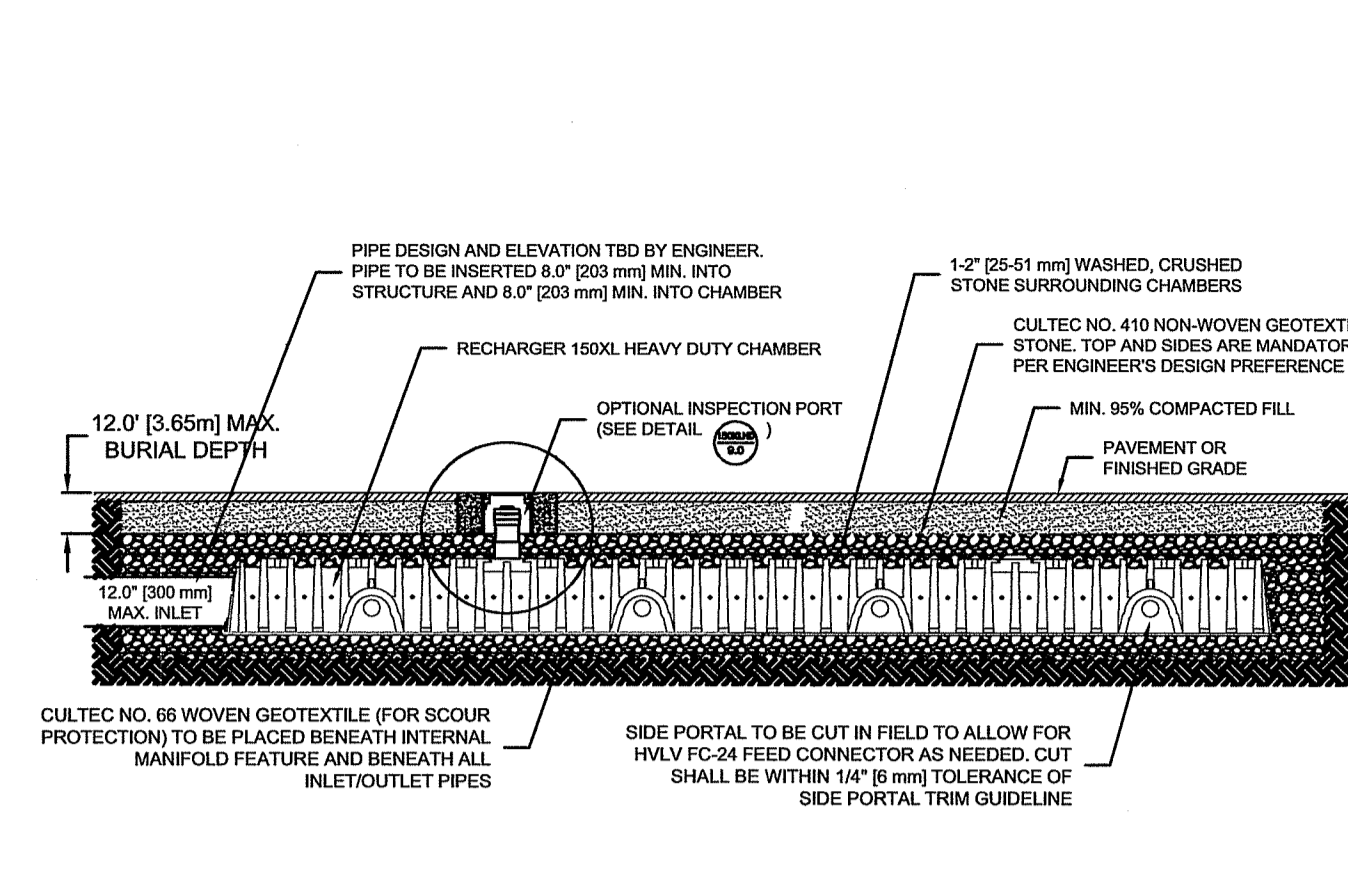
JEFFREY K. BALCH
No. 1839
PROFESSIONAL LAND SURVEYOR



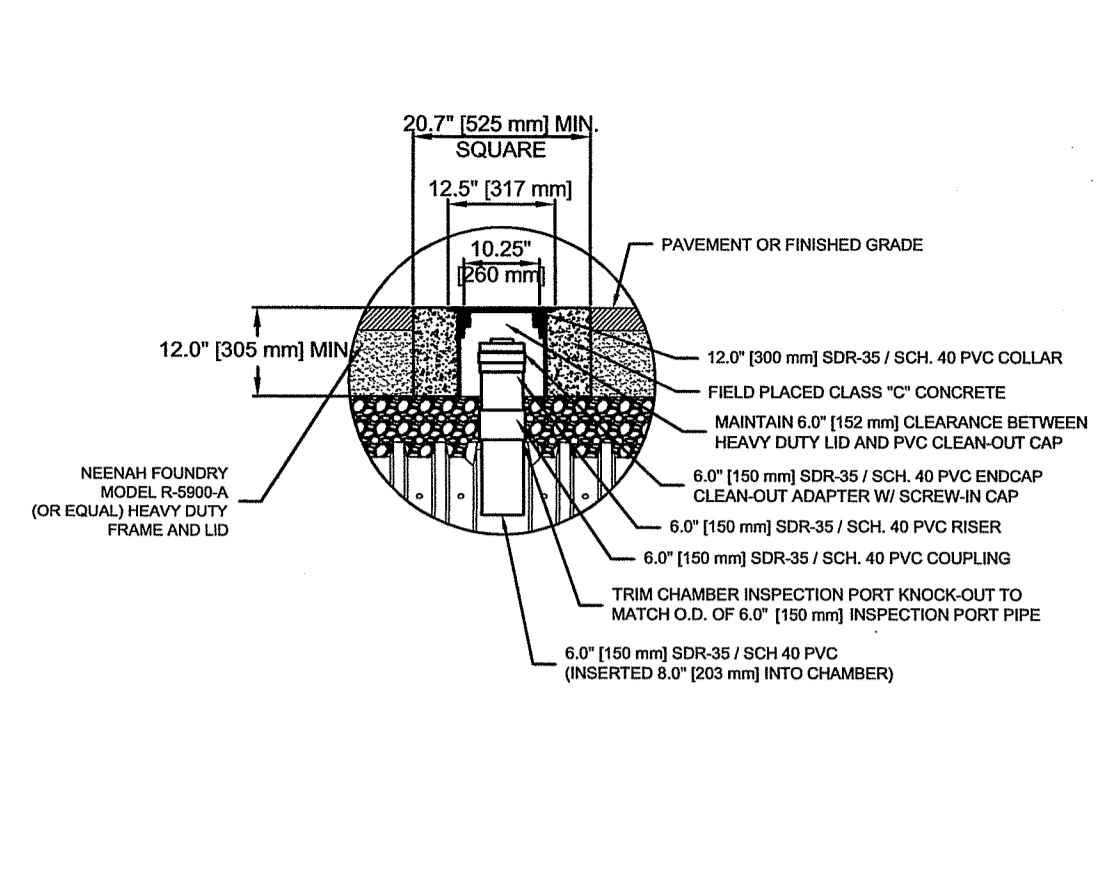
CULTEC RECHARGER 150XLHD HEAVY DUTY THREE VIEW



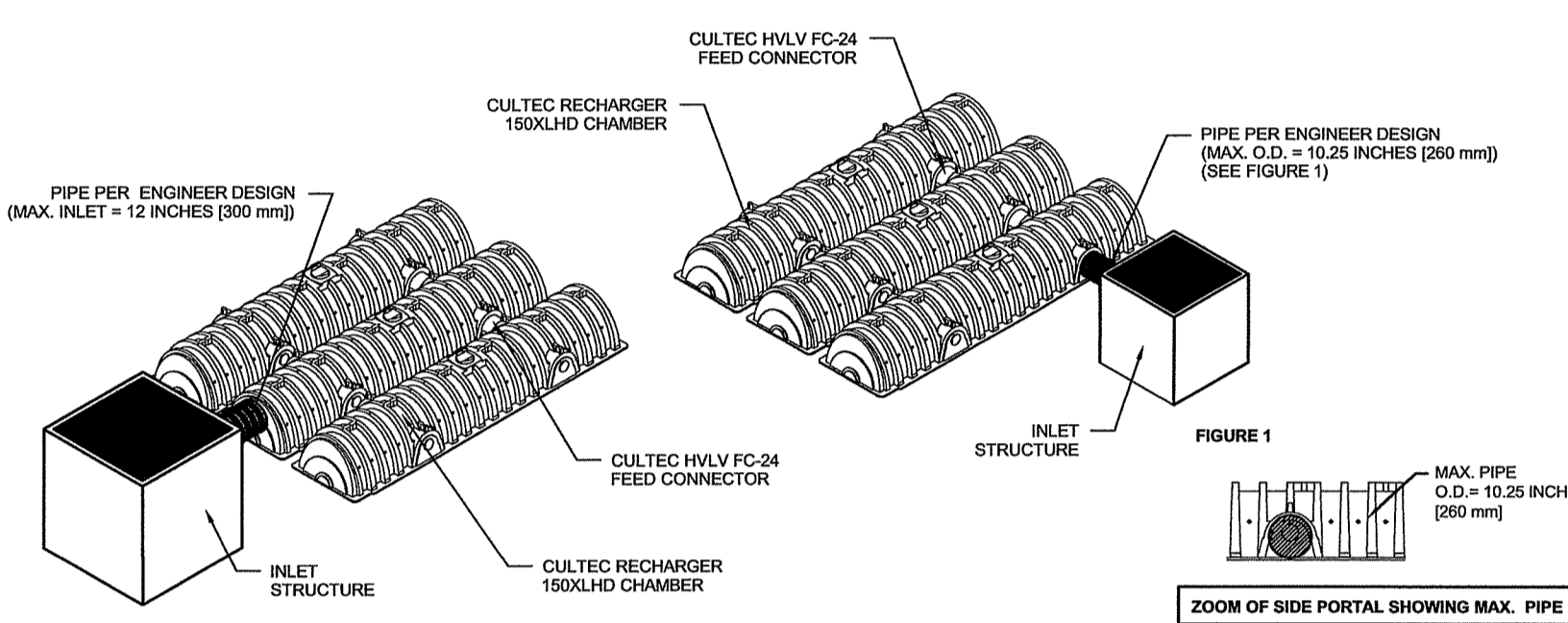
CULTEC RECHARGER 150XLHD HEAVY DUTY END DETAIL INFORMATION



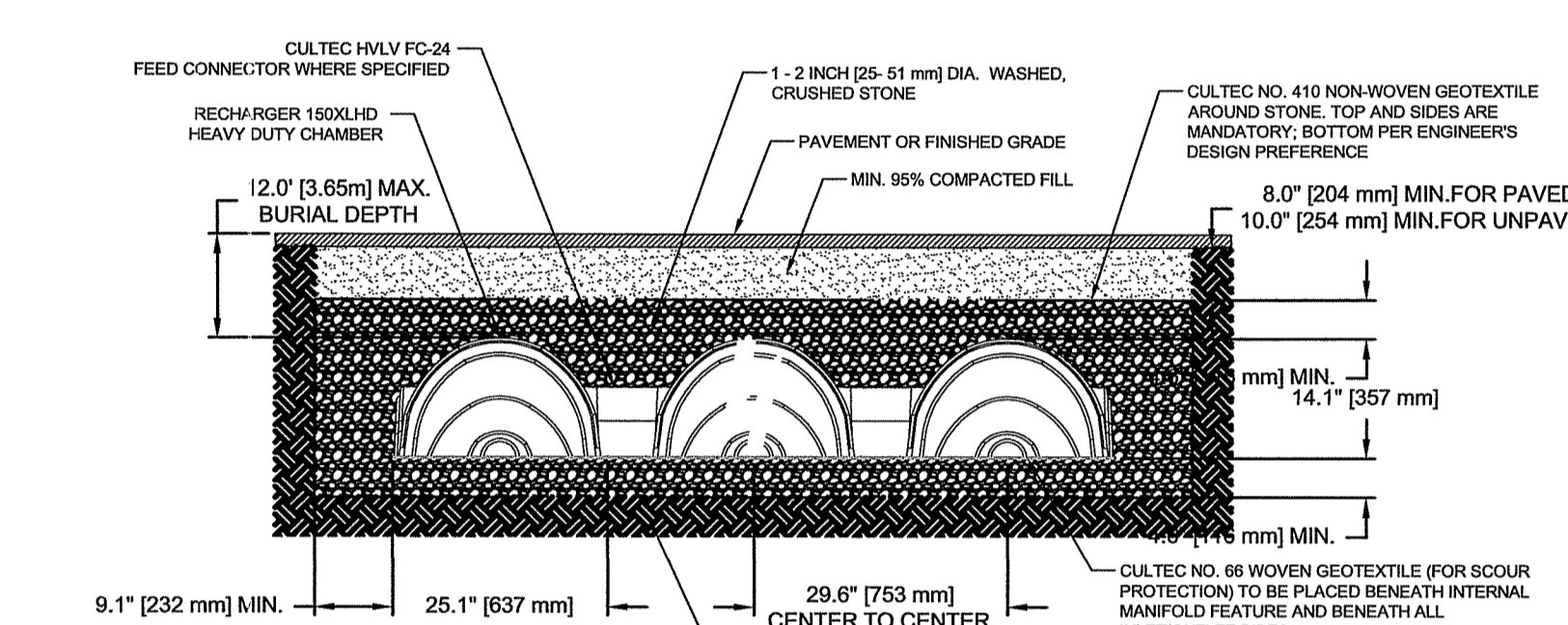
CULTEC INTERNAL MANIFOLD - OPTIONAL INSPECTION PORT DETAIL



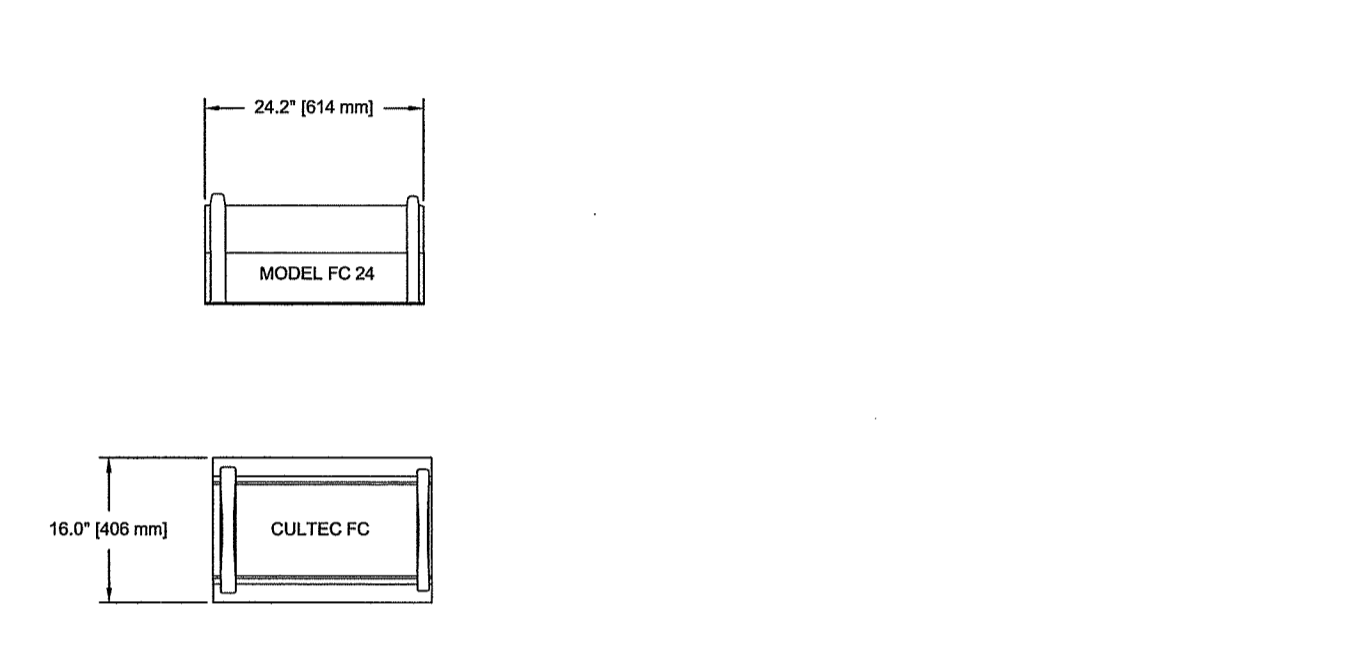
OPTIONAL INSPECTION PORT - ZOOM DETAIL



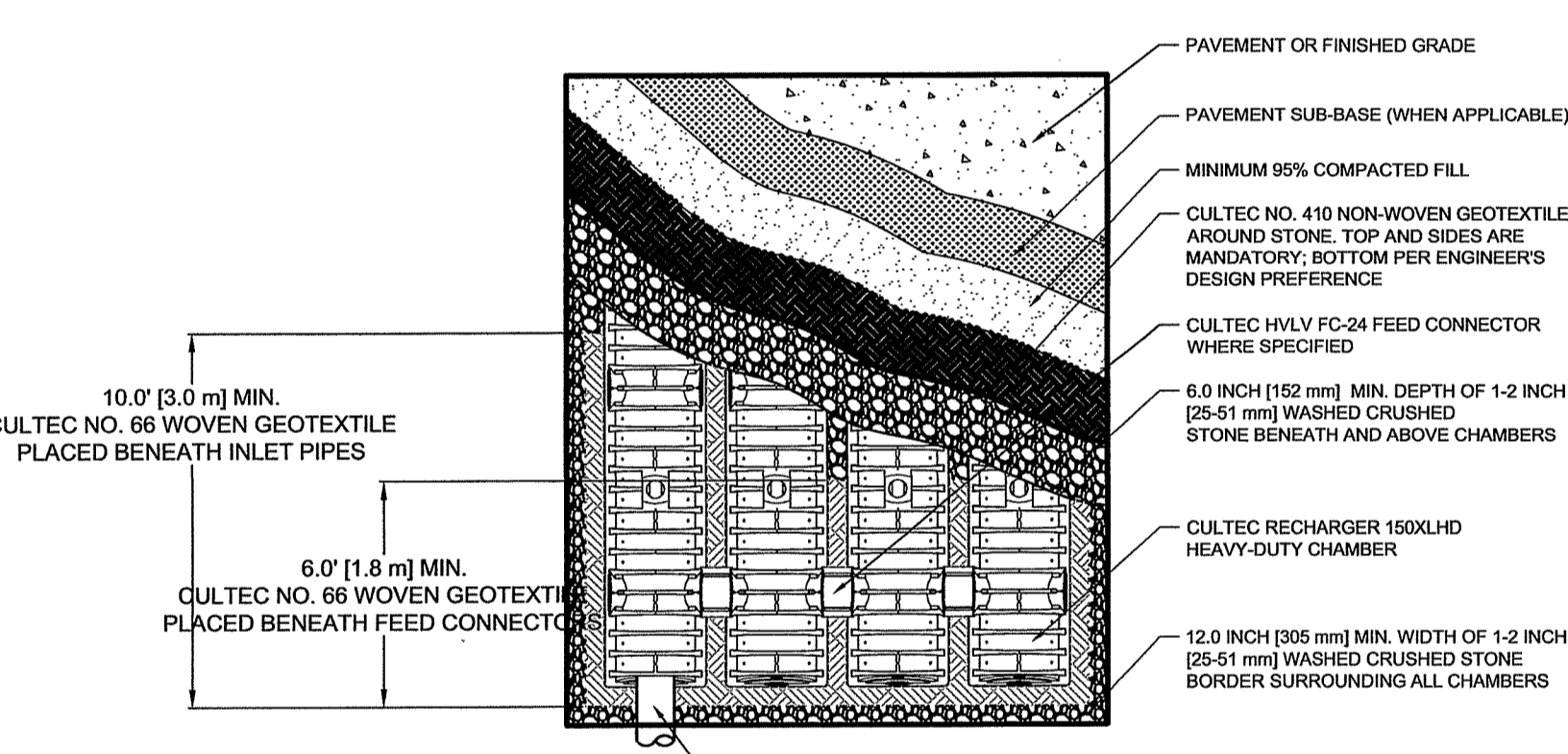
CULTEC TYPICAL INLET CONNECTION



CULTEC RECHARGER 150XLHD HEAVY DUTY TYPICAL CROSS SECTION



CULTEC HVLV FC-24 FEED CONNECTOR THREE VIEW



CULTEC RECHARGER 150XLHD HEAVY DUTY PLAN VIEW

GENERAL NOTES
 RECHARGER 150XLHD BY CULTEC, INC. OF BROOKFIELD, CT. STORAGE PROVIDED = 4.89 CF/FT (0.45 m³/m) PER DESIGN UNIT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 (3.05m). THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

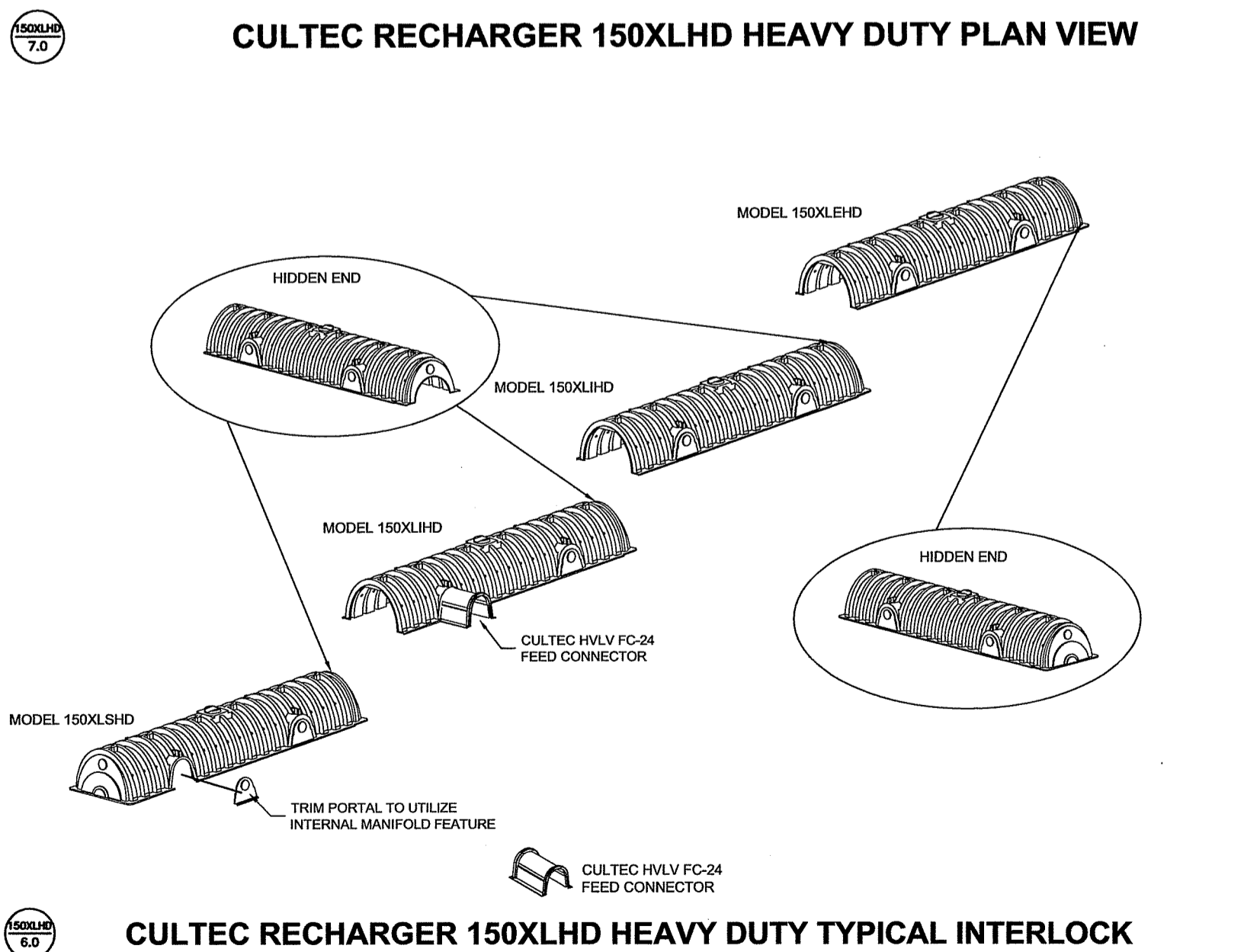
ALL RECHARGER 150XLHD HEAVY DUTY UNITS ARE MARKED WITH A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. ALL RECHARGER 150XLHD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

CULTEC RECHARGER 150XLHD HEAVY DUTY TYPICAL INTERLOCK

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GENERAL NOTES



CULTEC RECHARGER 150XLHD HEAVY DUTY TYPICAL INTERLOCK

CULTEC RECHARGER 150XLHD SPECIFICATIONS

GENERAL
 CULTEC RECHARGER 150XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

- THE CHAMBERS WILL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4418 OR 1-800-428-5832)
- THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HDPE).
- THE CHAMBER WILL BE ARCHED IN SHAPE.
- THE CHAMBER WILL BE OPEN-BOTTOMED.
- THE CHAMBER WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 150XLHD SHALL BE 18.5 INCHES (470 mm) TALL, 33 INCHES (838 mm) WIDE AND 11 FEET (3.35 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 150XLHD SHALL BE 10.25 FEET (3.12 m).
- MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 12 INCHES (305 mm).
- THE CHAMBER WILL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL INSIDE DIMENSIONS OF EACH SIDE PORTAL WILL BE 8.5 INCHES (216 mm) HIGH BY 12 INCHES (304 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 10.25 INCHES (260 mm).
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24 INCHES (610 mm) LONG.
- THE NOMINAL STORAGE VOLUME OF THE RECHARGER 150XLHD CHAMBER WILL BE 2.692 FT³ / FT (0.246 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 150XLHD SHALL BE 27.16 FT³ / UNIT (0.77 m³ / UNIT) - WITHOUT STONE.
- THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
- THE RECHARGER 150XLHD CHAMBER WILL HAVE THIRTY DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNITS CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
- THE RECHARGER 150XLHD CHAMBER SHALL HAVE 20 CORRUGATIONS.
- THE ENDWALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
- THE RECHARGER 150XLHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- THE RECHARGER 150XLHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20 INCHES (511 mm) WIDE.
- THE RECHARGER 150XLHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 mm) HIGH X 20 INCHES (511 mm) WIDE.
- THE RECHARGER 150XLHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
- THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE RECHARGER 150XLHD AND ACT AS CROSS FEED CONNECTIONS.
- CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
- HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
- THE CHAMBER WILL HAVE A RASSED INTERNAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
- THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
- THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.66 m).

CULTEC NO. 66 WOVEN GEOTEXTILE

GENERAL
 CULTEC NO. 66 WOVEN GEOTEXTILE IS UTILIZED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE.

GEOTEXTILE PARAMETERS

- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4418 OR 1-800-428-5832)
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 315 LBS (1.40kN) PER ASTM D4832 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TENSILE ELONGATION RESISTANCE OF 15% PER ASTM D4832 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A MULLEN BURST RESISTANCE OF 600PSI (4138 KPA) PER ASTM D3786 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TEAR RESISTANCE OF 115 LBS (0.51 kN) PER ASTM D4333 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PUNCTURE RESISTANCE OF 150 LBS (0.66 kN) PER ASTM D4833 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 900 LBS (4.00 kN) PER ASTM D6241 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.05 SEC-1 PER ASTM D4911 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 4 GPM/FT² (160 LPM/M²) PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERCENT OPEN AREA OF <1% PER CW-02216 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
- THE GEOTEXTILE SHALL CONSIST OF A 100% HIGH-TENACITY, 3-LT-FILM POLYPROPYLENE YARNS.

NOTE:
 ALL DETAILS ON THIS PAGE TAKEN FROM CULTEC, INC.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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NO.	DATE	DESCRIPTION	BY
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3	6-14-2019	AS PER RIDEM WETLANDS COMMENTS	IB
2	5-29-2019	REVISED HOUSE, ADDED DRAINAGE	IB
1	7-6-2018	RIDEM WETLANDS MODIFICATION/REVISED HOUSE	CAC

PLAN OF PROPOSED IMPROVEMENTS

LOCATED ON:
 LOTS 2 & 3 OF ASSESSORS MAP 28

OWNED BY:
MICHAEL L. SLINEY

ADDRESS:
 371 ESCOHEAG HILL ROAD
 IN THE TOWN OF EXETER, RI

MAY 22, 2019
 DESIGNED BY:
JEFFREY K. BALCH, P.L.S.

SCALE: 1" = 50'
 DRAWN BY:
CAC, IVB CHECKED BY:
JKB

SHEET 2 OF 2

JEFFREY K. BALCH
 5/30/19
 No. 1839
 PROFESSIONAL
 LAND SURVEYOR

NOTES:

GENERAL:

1. THE EXISTING SITE INFORMATION WAS TAKEN FROM A PLAN PREPARED BY FRISSELLA-BALCH & ASSOCIATES LAND SURVEYORS, TITLED, 'PLAN OF PROPOSED IMPROVEMENTS', AT A SCALE OF 1" = 50', DATED MAY 22, 2019 AND LAST REVISED JUNE 14, 2019, AND FROM MEASUREMENTS PERFORMED BY JOHN C. CARTER & CO.
2. ANY PROPERTY LINES SHOWN 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 72 HOURS BEFORE EXCAVATION. DIG-SAFE CAN BE REACHED AT 1-888-344-7235.

NARRATIVE:

EXISTING CONDITIONS:

PRESENT ON THE SITE IS A STREAM WIDER THAN 10' WITH A 200' RIVERBANK WETLAND, A WOODED SWAMP WITH A 50' PERIMETER WETLAND, A HISTORIC FARMSTEAD INCLUDING A MOWED GRASS LAWN, AN EXISTING DRIVEWAY, AND AN EXISTING SINGLE FAMILY DWELLING (RECENTLY DEMOLISHED) WITHIN THE 50' PERIMETER WETLAND, A SEPTIC SYSTEM AND A WELL.

PROPOSED CONDITIONS:

THE PROPOSED CONDITIONS ARE TO ABANDON THE EXISTING OWTS, WELL AND A PORTION OF THE EXISTING DRIVEWAY WITHIN THE 50' PERIMETER WETLAND. A NEW SINGLE FAMILY DWELLING, OWTS, AND WELL ARE TO BE CONSTRUCTED OUTSIDE OF THE 50' WETLAND PERIMETER.

APPROXIMATELY 9,200 SQUARE FEET OF THE MANAGED LAWN AREA WITHIN THE 50' WETLAND PERIMETER IS PROPOSED TO BE PLANTED WITH NATIVE PLANTS AS SHOWN ON THE ATTACHED PLAN AND PLANT SCHEDULE.

THE PROPOSED DENSE EVERGREEN PLANTINGS WILL RESTORE AN IMPORTANT WETLAND BUFFER, WHICH WILL BUFFER THE ADJACENT WILDLIFE FROM LIGHT, NOISE AND OTHER HUMAN ACTIVITIES.

AN ADDITIONAL PROPOSED BENEFIT IS THAT THE ROOF AND PAVED DRIVEWAY RUNOFF WILL BE CAPTURED AND INFILTRATED INTO THE GROUND.

BUFFER PLANTINGS:

THE PROPOSED BUFFER PLANTINGS ARE TO BE ADDED TO THE EDGE OF THE EXISTING WETLAND BUFFER. THE PROPOSED BUFFER PLANTINGS WILL CONSIST OF A LAYERING OF EVERGREEN TREES AND NATIVE SHRUBS WHICH WILL PROVIDE A NOTABLE INCREASE OF VEGETATION ALONG THE PERIMETER OF THE EXISTING WETLAND EDGE. THE ADDITIONAL VEGETATION IS INTENDED TO FORM A WALL OF GROWTH WHICH WILL SERVE TO REDUCE SOUND AND LIGHT FROM THE HOUSE TO THE WETLAND. THE TREES AND SHRUBS HAVE ALSO BEEN SELECTED FOR THEIR NATIVE STATUS AND VALUE AS WILDLIFE HABITAT AND FOOD SOURCE.

DURING THE INSTALLATION OF THE PROPOSED PLANTINGS, CARE SHALL BE TAKEN TO NOT DISTURB THE EXISTING VEGETATION. PROPOSED PLANTINGS ARE NOT TO BE PLANTED WITHIN THE ROOT ZONE OF THE EXISTING TREES.

LIST OF PROPOSED BUFFER PLANTINGS

EVERGREEN TREES:				
AMOUNT	BOTANICAL	COMMON	SIZE	SPACING
7	PICEA MARIANA	COMMON	5-6'	12-15' O.C.
6	TSUGA CANADENSIS	BLACK SPRUCE CANADIAN HEMLOCK	5-6'	12-15' O.C.

UNDERSTORY /FRINE SHRUBS:				
AMOUNT	BOTANICAL	COMMON	SIZE	SPACING
30	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	18-24" HT	6' O.C.
30	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	18-24" HT	6' O.C.

HERBACEOUS PERENNIALS:				
AMOUNT	BOTANICAL	COMMON	SIZE	SPACING
150	DENNSTAEDIA PUNCTILOBULA	HAYSCENTED FERN	1 GALLON	24' O.C.

PLANTING

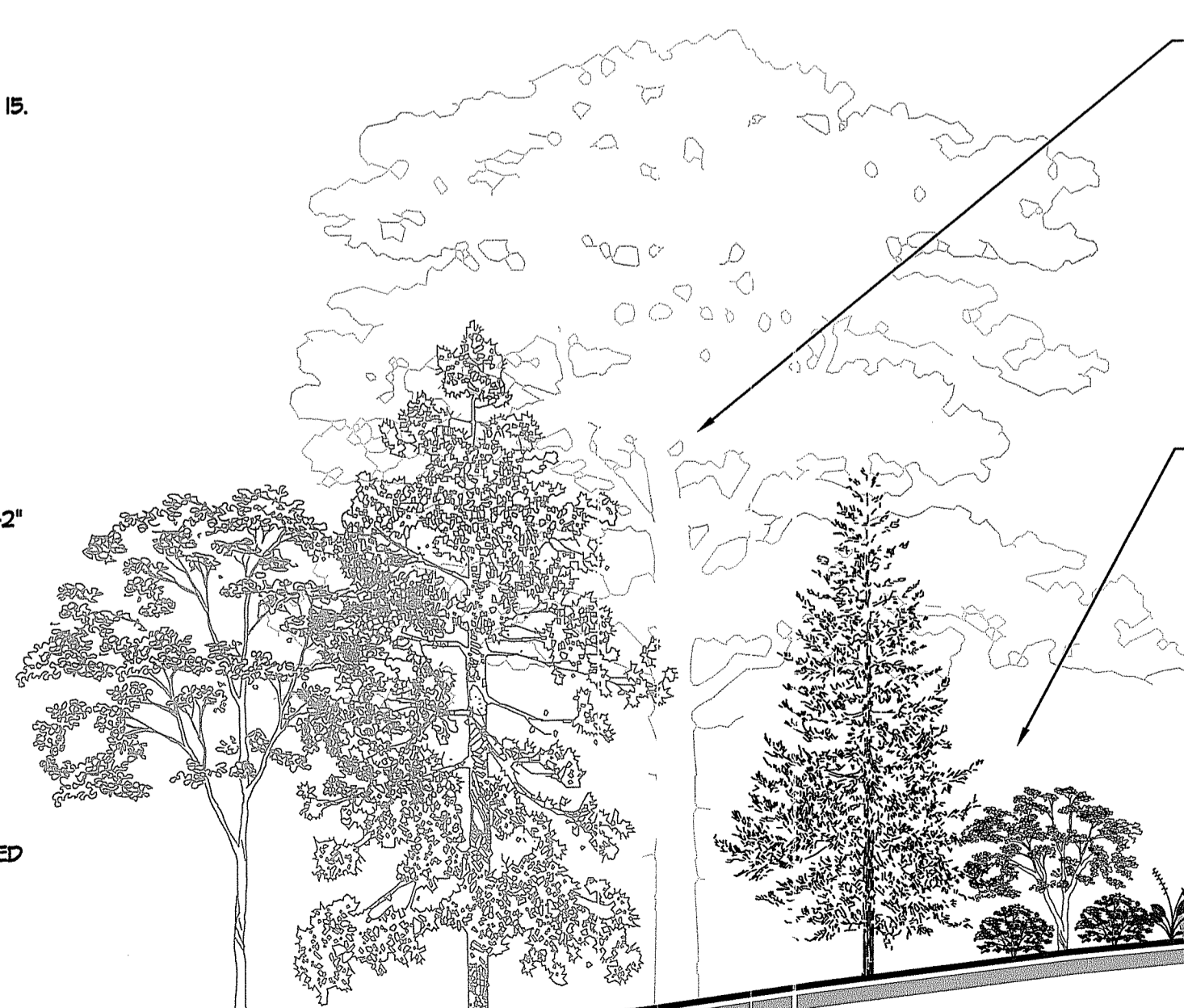
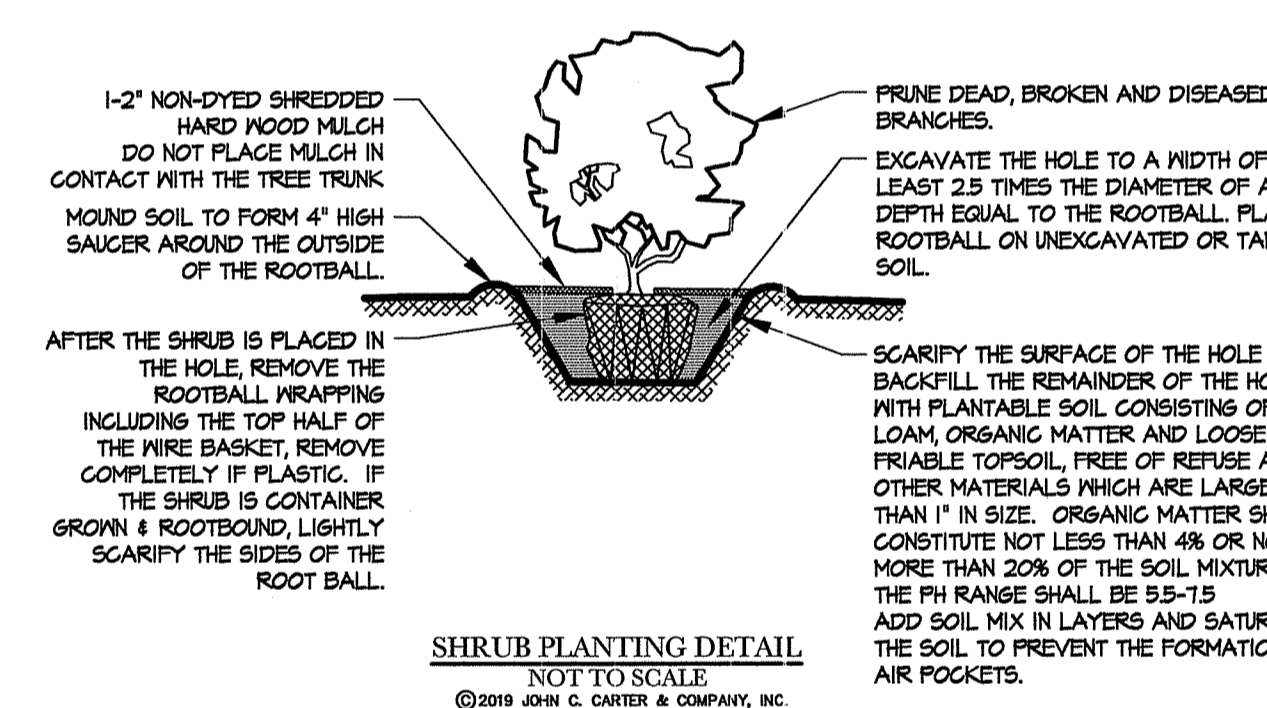
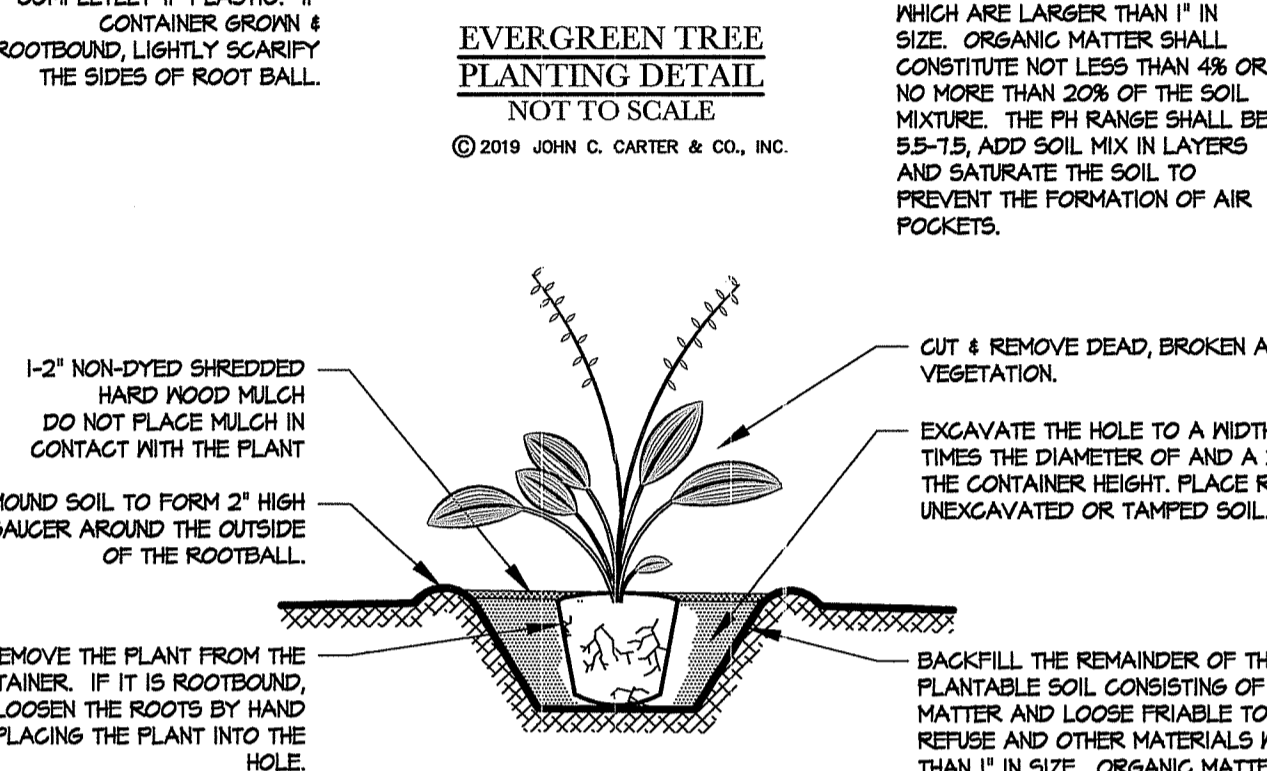
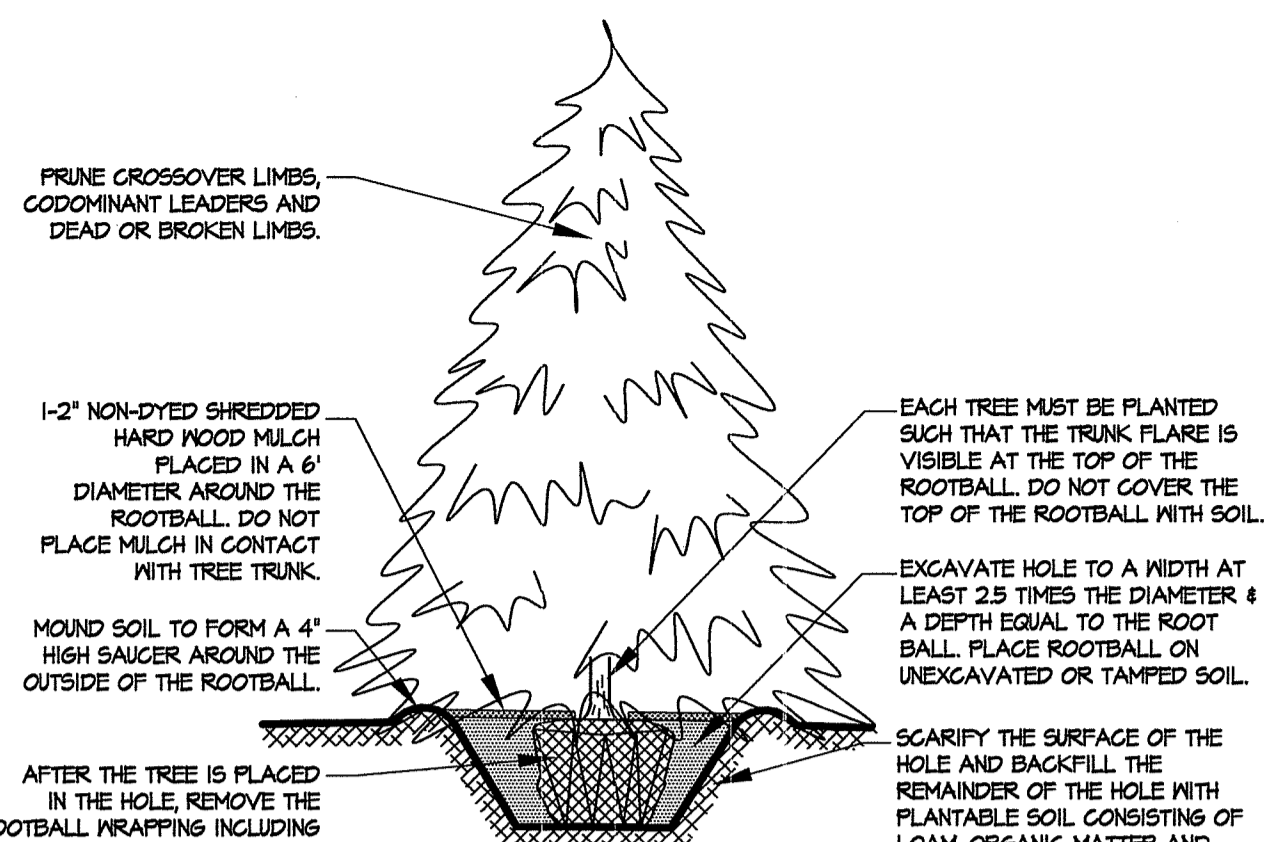
1. PROVIDE QUALITY PLANTS IN THE GENUS, SPECIES AND VARIETY INDICATED IN THE PLANT SCHEDULE, COMPLYING WITH APPLICABLE REQUIREMENTS OF 'ANSI Z601 AMERICAN STANDARD FOR NURSERY STOCK.'
2. PROVIDE PLANTS IN THE SIZE AND NUMBER INDICATED IN THE PLANT SCHEDULE. PLANTS SHALL BE GROWN IN NURSERIES LOCATED IN THE NORTHEASTERN U.S.
3. DELIVER FRESH DUG 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. RECOMMENDED PLANTING DATES ARE APRIL 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15.
5. PLANT SUBSTITUTIONS SHALL BE ALLOWED BASED ON AVAILABILITY. SUBSTITUTIONS MAY BE MADE ONLY WITH DIRECT APPROVAL FROM THE LANDSCAPE ARCHITECT OR OWNER.

PLANTING SEQUENCE

1. INSTALL TREE PROTECTION PER PLAN DETAIL.
2. LAYOUT PLANTS AT THE SPACINGS INDICATED ON THE PLANT SCHEDULE.
3. INSTALL PLANTS AS SHOWN IN THE PLANTING DETAILS. AMENDED PLANTING SOIL IS NOT REQUIRED IF THE EXISTING SOIL HAS ADEQUATE ORGANIC MATTER TO SUSTAIN HEALTHY GROWTH.
4. AFTER PLANTING, THE PLANTS ARE TO BE THOROUGHLY WATERED AND THEN COVERED WITH 1-2" OF NON-DYED, SHREDDED HARDWOOD MULCH.

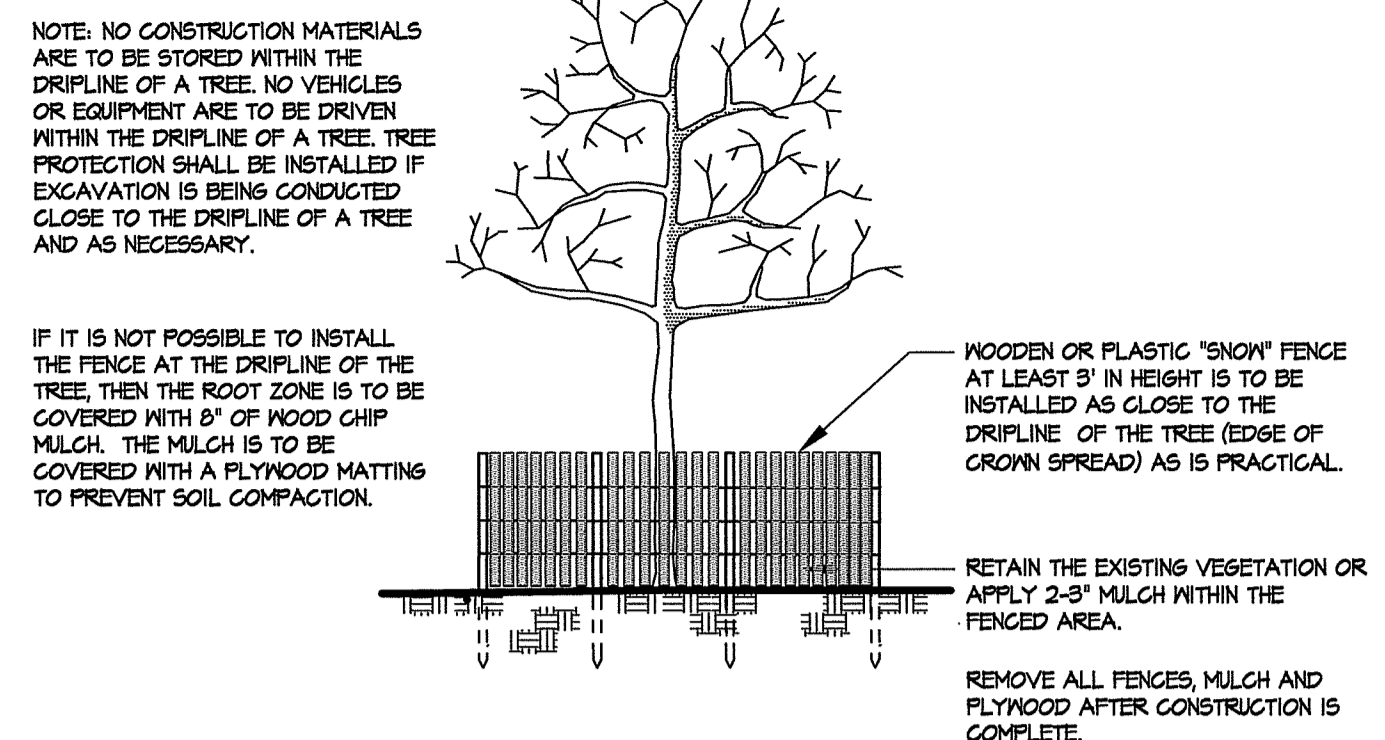
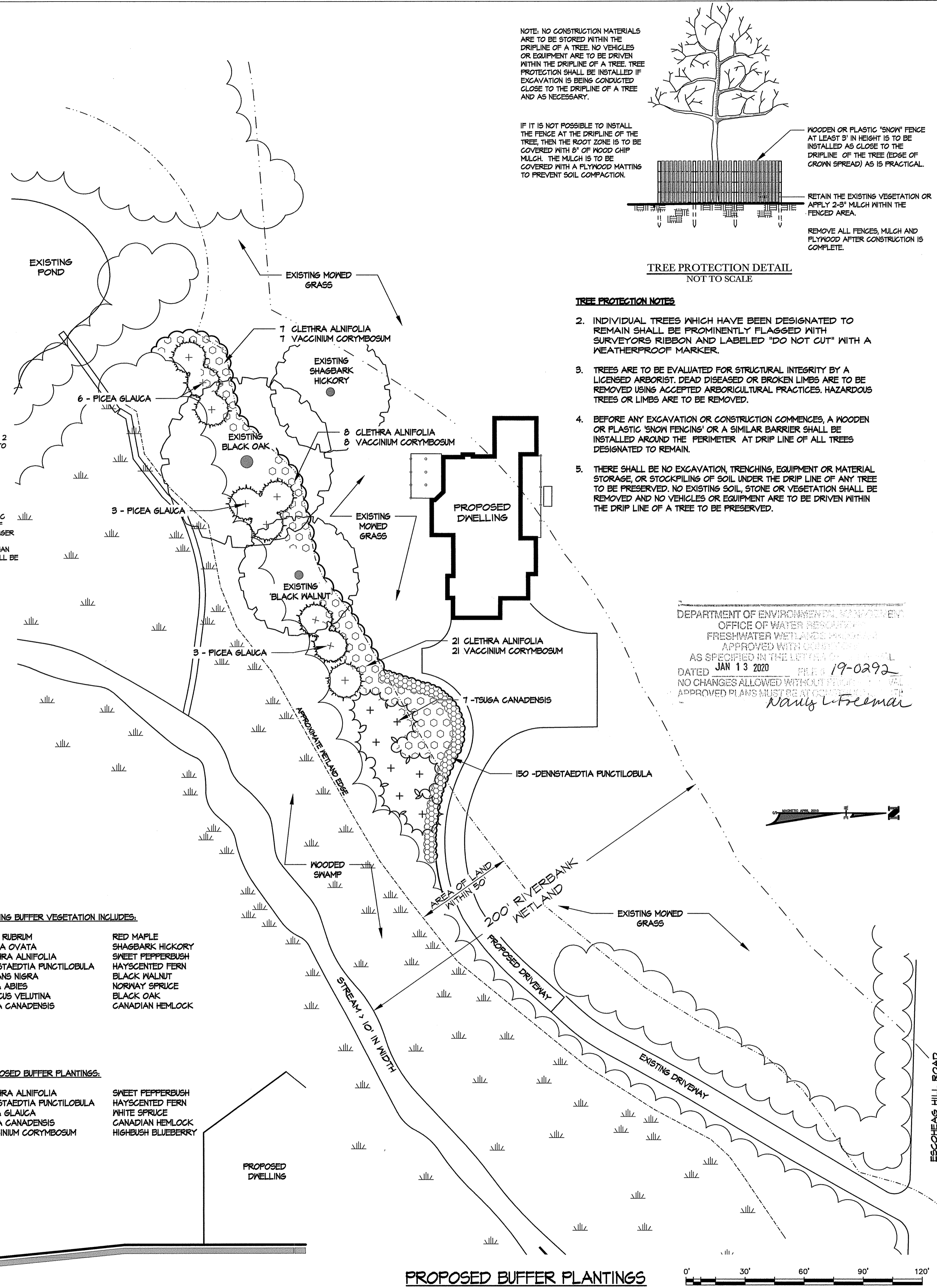
MAINTENANCE

1. IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE ADEQUATE WATER THROUGH THE FIRST GROWING SEASON AS NECESSARY TO PROMOTE HEALTHY AND VIGOROUS GROWTH.
2. DURING THE FIRST GROWING SEASON, PERIODIC NEED REMOVAL SHALL BE PERFORMED BY HAND ONLY AS NECESSARY TO ALLOW THE NEW PLANTS TO ESTABLISH. THERE IS TO BE NO FURTHER KEEPING OR MOVING WITHIN THE BUFFER ZONE AFTER THE FIRST GROWING SEASON.
3. PLANTS SHALL BE WARRANTED FOR ONE YEAR AFTER INSTALLATION AND SHALL BE REPLACED IF MORE THAN ONE THIRD OF THE PLANT IS DEAD.



- EXISTING BUFFER VEGETATION INCLUDES:**
- ACER RUBRUM
 - CARYA OVATA
 - CLETHRA ALNIFOLIA
 - DENNSTAEDIA PUNCTILOBULA
 - JUGLANS NIGRA
 - PICEA ABIES
 - QUERCUS VELUTINA
 - TSUGA CANADENSIS
 - RED MAPLE
 - SHAGBARK HICKORY
 - SWEET PEPPERBUSH
 - HAYSCENTED FERN
 - BLACK WALNUT
 - NORWAY SPRUCE
 - BLACK OAK
 - CANADIAN HEMLOCK

- PROPOSED BUFFER PLANTINGS:**
- CLETHRA ALNIFOLIA
 - DENNSTAEDIA PUNCTILOBULA
 - PICEA GLAUCA
 - TSUGA CANADENSIS
 - VACCINIUM CORYMBOSUM
 - SWEET PEPPERBUSH
 - HAYSCENTED FERN
 - CANADIAN HEMLOCK
 - HIGHBUSH BLUEBERRY



- 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. 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.
 3. BEFORE ANY EXCAVATION OR CONSTRUCTION COMMENCES, A WOODEN OR PLASTIC 'SNOW FENCE' OR A SIMILAR BARRIER SHALL BE INSTALLED AROUND THE PERIMETER AT DRIP LINE OF ALL TREES DESIGNATED TO REMAIN.
 4. 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.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PERMIT
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF PERMIT
DATED JAN 13 2020 PER 19-0292
NO CHANGES ALLOWED WITHOUT PERMIT
APPROVED PLANS MUST BE AT SCALE
Nancy L. Freeman



JOHN C. CARTER & CO., INC.
960 BOSTON NECK RD. NARRAGANSETT, RI
(401) 783-3500
LANDSCAPE ARCHITECTURE
DESIGN & BUILD

BUFFER PLANTING PLAN
PREPARED FOR:
MICHAEL L. SLINEY
LOCATED AT:
371 Escobeg Hill Road
A.P. 28, LOT 2 & 3
EXETER, RHODE ISLAND

REVISIONS
SCALE: As Noted
DATE: September 12, 2019
SHEET NUMBER
1 OF 1
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