

LOCUS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
OWTS & FRESHWATER WETLANDS
JOINT PERMIT APPROVAL

OWTS# 0503-2387 P#44# 24-0271
APPROVED: *[Signature]* DATE 4/8/85
No Changes Allowed Without RIDEM Approval
Approved Plans/Permit Must Be Kept at Construction Site

1" = 20'

BSF GRADING & LAYOUT DETAILS

ADJUST NUMBER OF TIES TO STEP DOWN ENCLOSURE TO MAINTAIN GRADING OF 3-1 SLOPE.

TOWN FARM ROAD

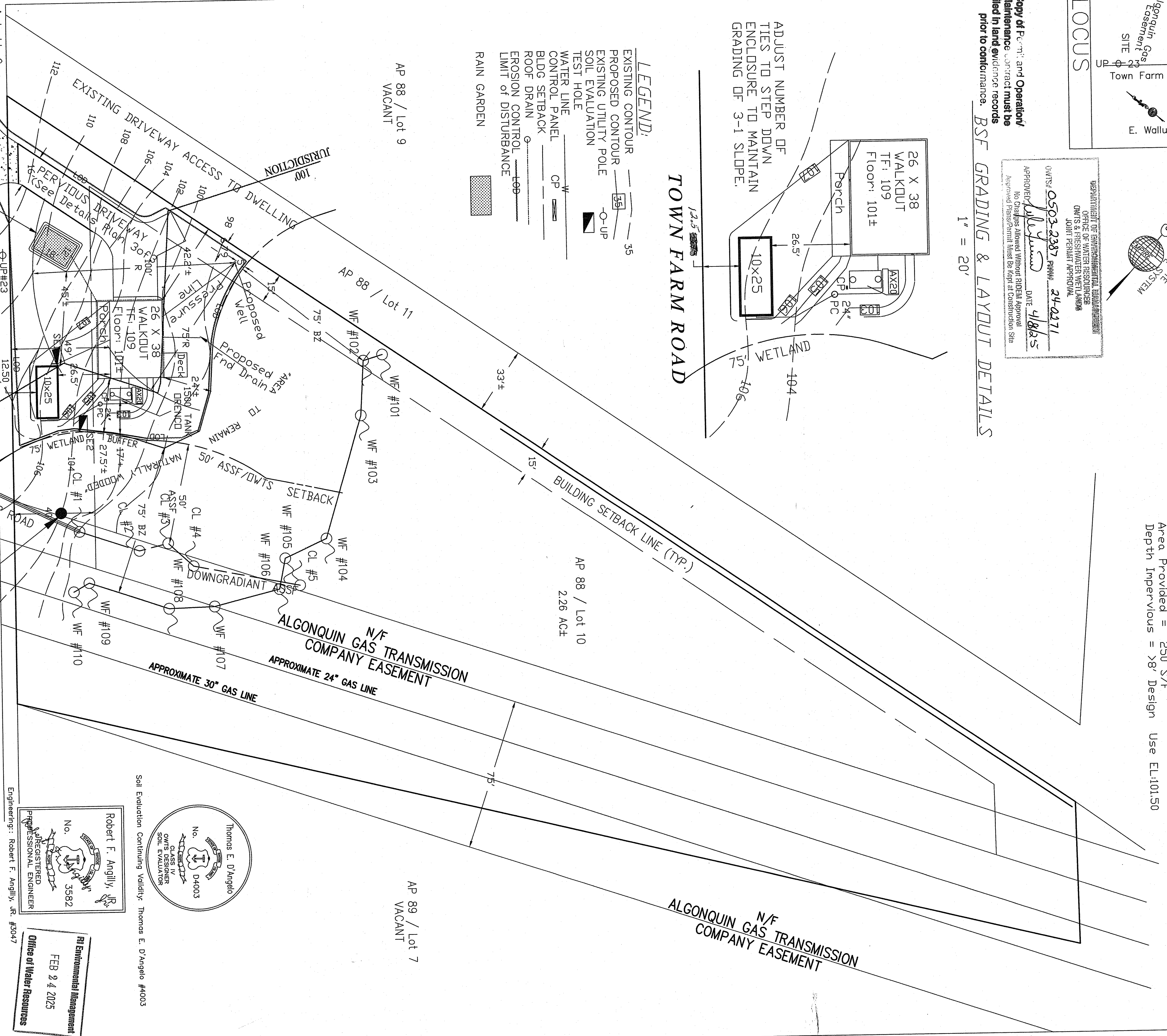
- LEGEND:**
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EXISTING UTILITY POLE
 - SOIL EVALUATION
 - TEST HOLE
 - WATER LINE
 - CONTROL PANEL CP
 - BLDG SETBACK
 - ROOF DRAIN
 - EROSION CONTROL
 - LIMIT OF DISTURBANCE
 - RAIN GARDEN

AP 88 / Lot 11

DESIGN DATA

PREVIOUS OWTS 0503-2387
PREVIOUS FWW 0605-25

Proposed 3 B/R - 345 Gals/Day
Soil Cat #9 / BSF Loading Rate 1.50 Gal/SF/Day
Design SHWT from Soil Eval's SE#1-24" / SE#2-24" Design EL. 104.00
Minimum Required Area = 230 S/F
Area Provided = 250 S/F
Depth Impervious = >8' Design Use EL.101.50



Revised LOD per RIDEM

UPGRADIANT OPEN TRENCH ASSF AREAS PARTIALLY FILLED

B.M. Nail in Tree EL. 106.46 To Be Relocated Prior To Construction

SCALE 1" = 30'

Robert F. Angilly, R.
No. 3582
REGISTERED PROFESSIONAL ENGINEER

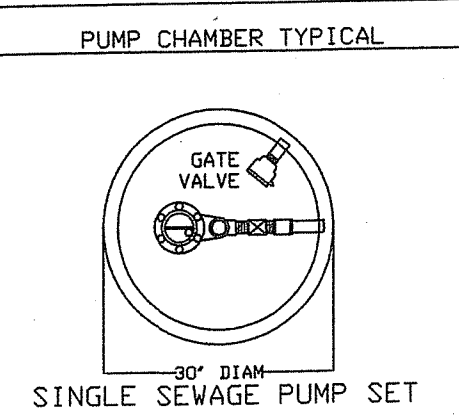
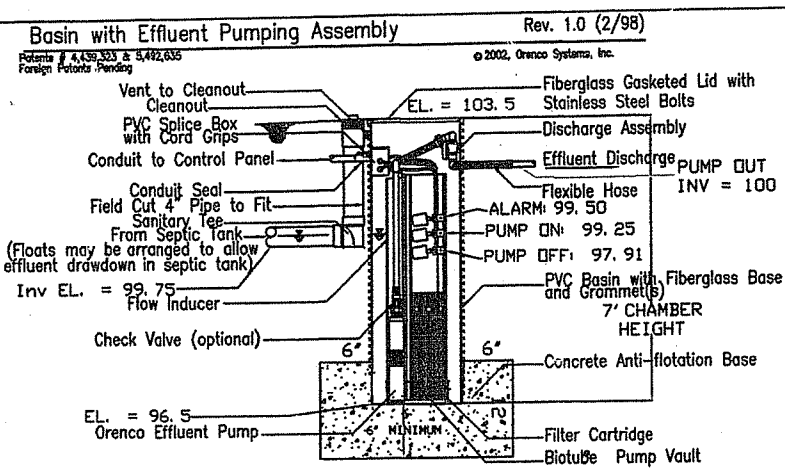
Thomas E. D'Angelo
No. D-4003
CLASS IV OWTS & FRESHWATER WETLANDS SOIL EVALUATOR

R/E Environmental Management
FEB 24 2025
Office of Water Resources

Soil Evaluation Continuing Validity: Thomas E. D'Angelo #4003

NO.	DATE	BY	REVISIONS
1		Town Farm Road	PROPOSED OWTS/FWW JOINT PERMIT for JOHN LACE
2		Burrillville AP 88 / LOT 10	
3		BRANN BY	SCALE 1:30
4	9/21/24	CHK'D	DATE 9/21/24
5		TRACED	APP'D

Plan 1 OF 3



BSF ELEVATIONS

BOTTOM OF SAND EL.	= 105.00
BOTTOM OF PEA STONE EL.	= 107.00
TOP OF PEA STONE EL.	= 107.75
INV. OF 1" PVC LATERAL	= 107.25
SHWT DESIGN EL.	104.00

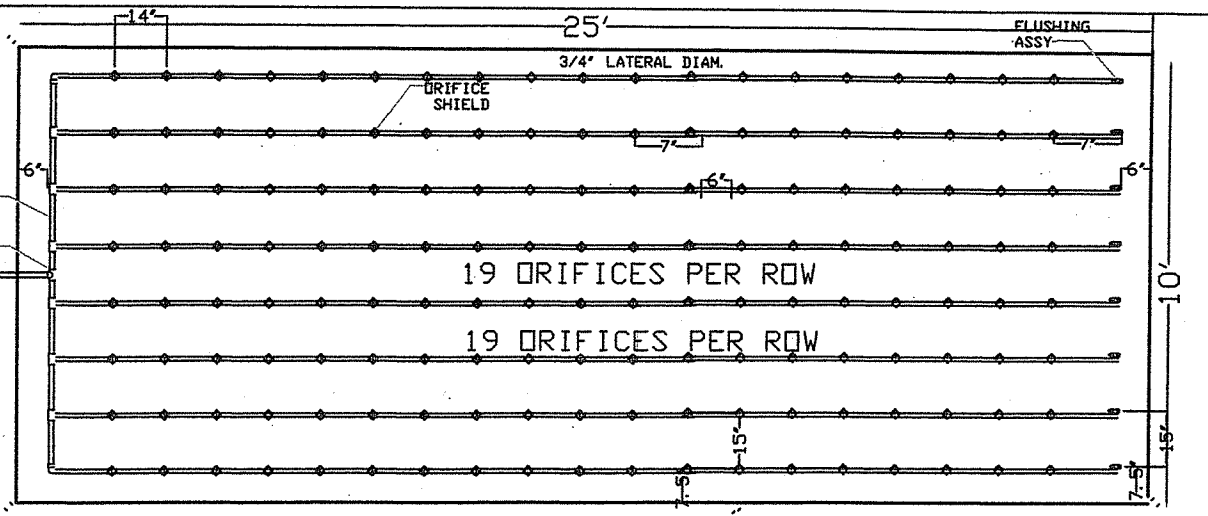
INVERT SCHEDULE

HOUSE OUT EL.	100.15
SEPTIC TANK IN EL.	100.00
TOP OF SEPTIC TANK EL.	101.63
AX20 FILTER POD OUTLET EL.	100.50
TOP OF ADVANTEX FILTER EL.	103.1
PUMP CHAMBER INLET EL.	99.75
PUMP CHAMBER OUT EL.	100.00
TOP PUMP CHAMBER EL.	103.10
BOTTOM BSF SAND EL.	105.00
3/4" LATERAL INVERT EL.	107.25
FINISH GRADE EL.	106 TO 107

PUMP CHAMBER

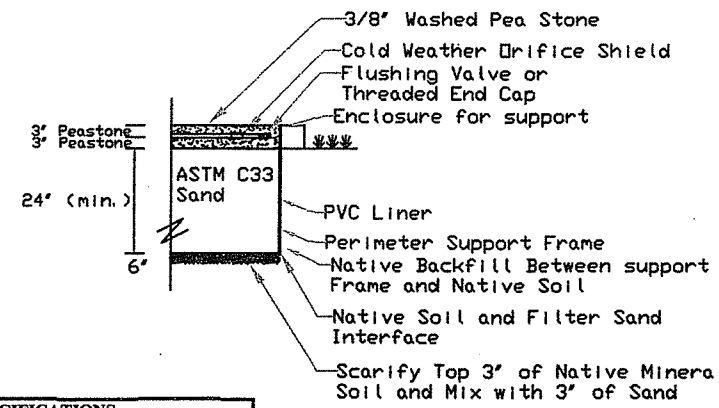
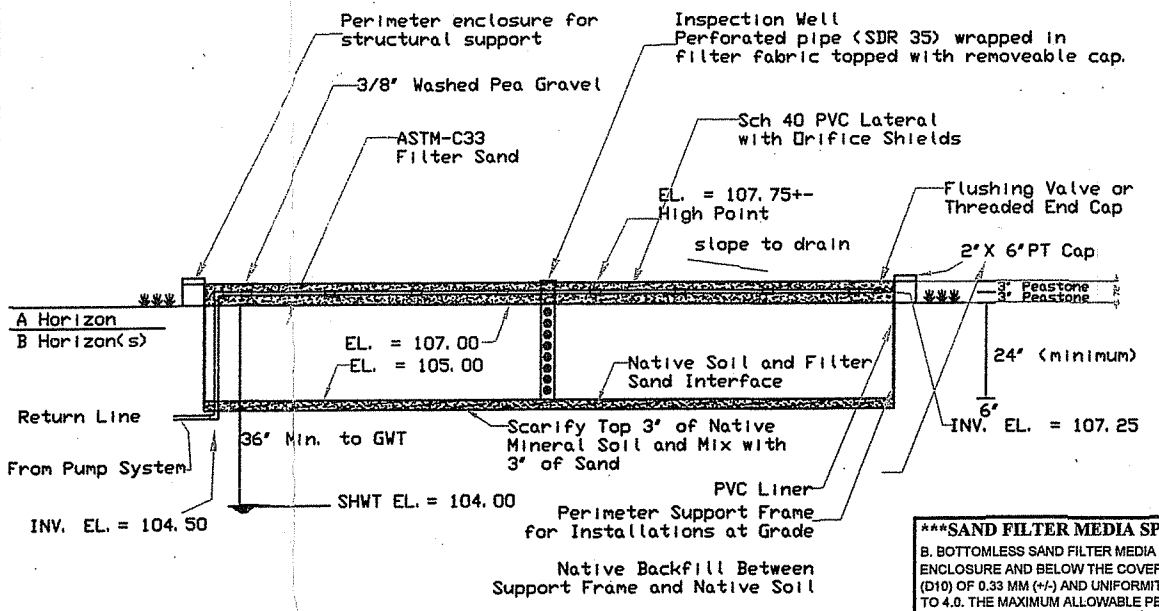
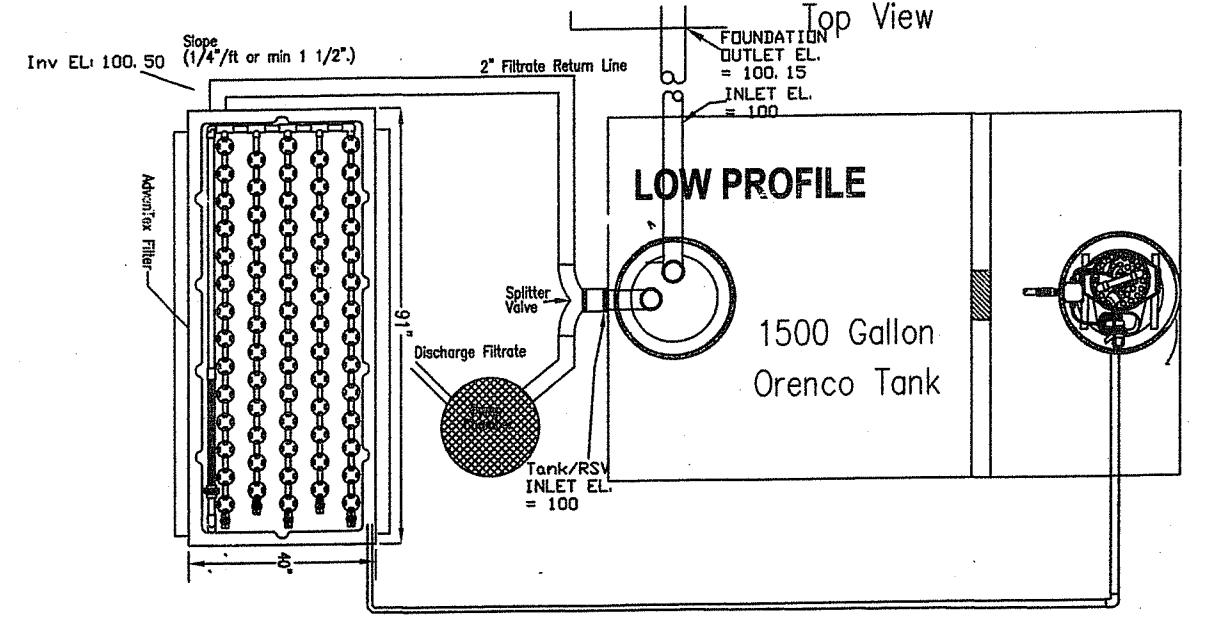
TOP PUMP CHAMBER EL.	103.50
BOTTOM OF CHAMBER EL.	96.50
PUMP ON EL.	99.25
PUMP OFF EL.	97.91
HIGH WATER ALARM EL.	99.50

SHWT DESIGN ELEV: 104.00



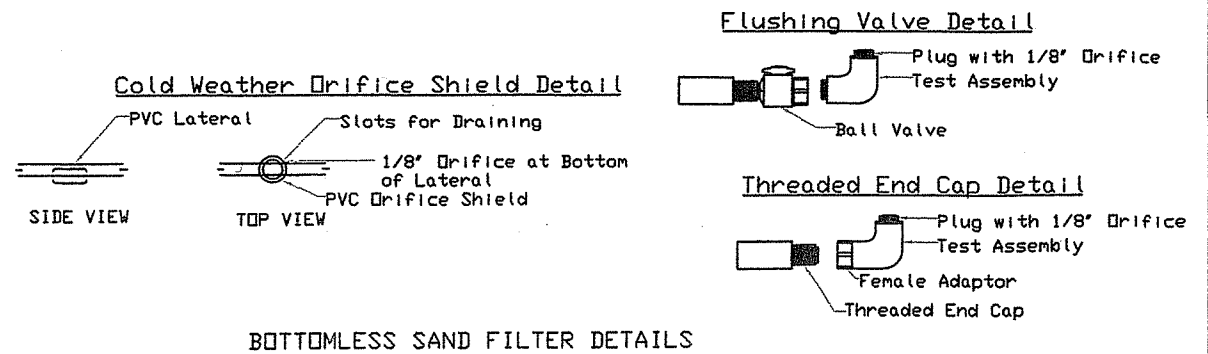
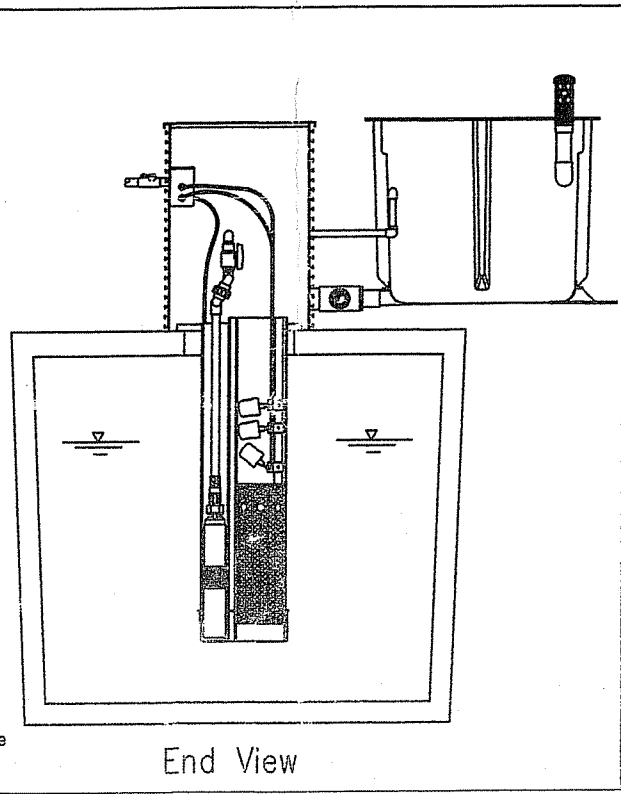
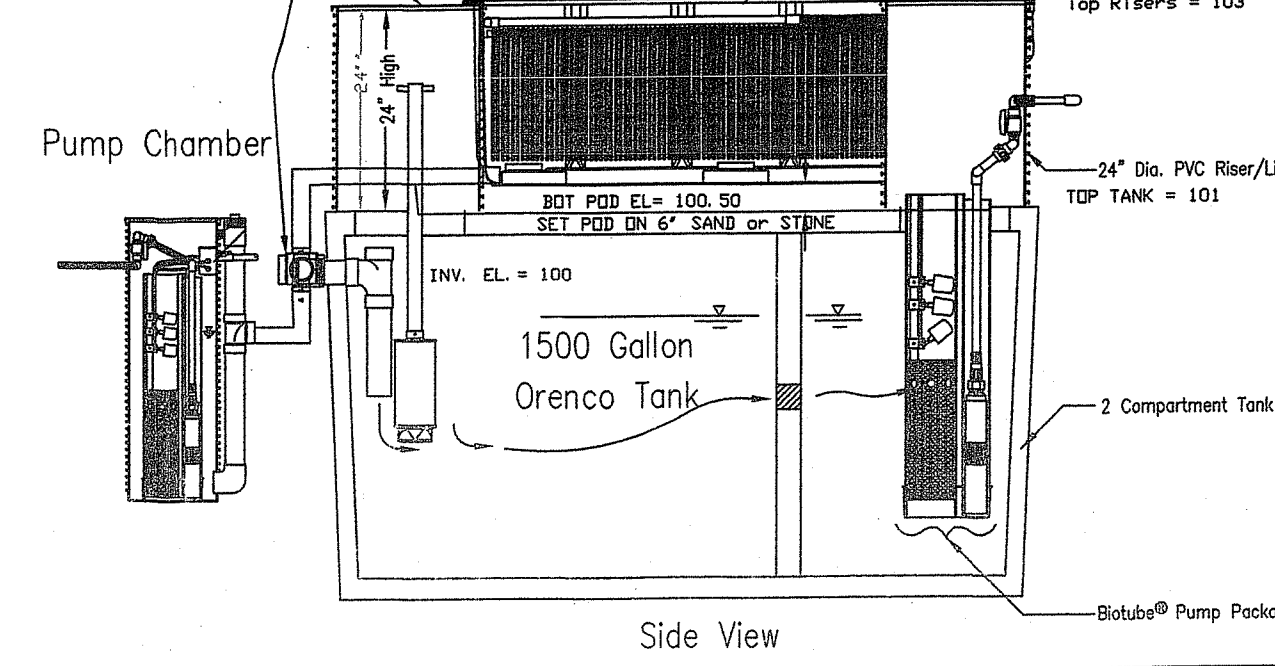
DESIGN DATA
Proposed 3 B/R - 345 Gals/Day
Soil Cat #9/BSF Loading Rate 1.5 G/SF/D
SHWT SE#1-24' / SE#2-24' Design EL: 104.00
Minimum Required Area = 230 S/F
Area Provided = 250 S/F
Depth Impervious = >8' Design Use EL <98

AdvanTex Treatment System
AX 20 Series - Mode 3b™



*****SAND FILTER MEDIA SPECIFICATIONS**
B. BOTTOMLESS SAND FILTER MEDIA SPECIFICATIONS: ALL MEDIA WITHIN THE ENCLOSURE AND BELOW THE COVER STONE SHALL HAVE AN EFFECTIVE SIZE (D10) OF 0.33 MM (+/-) AND UNIFORMITY COEFFICIENT (D60/D10) OF 2.0 TO 4.0. THE MAXIMUM ALLOWABLE PERCENTAGE OF FINES PASSING THROUGH A NUMBER 200 SIEVE SHALL BE ONE PERCENT (1%), OTHER THAN THE GRADATION AND FINE CONTENT SPECIFIED ABOVE, THE SAND MEDIA SHALL MEET THE OTHER ASTM C-33 SAND SPECIFICATIONS.

TYPICAL ONLY
SEE ABOVE & PLAN FOR DETAILS



REVISIONS

NO.	DATE	BY
1	2/1/25 (DEM)	TDA

BSF DESIGN TYPICALS
for JOHN L. ACE (Curry)
Town Farm Rd.
Burrillville
AP LOT

DRAWN BY: N. T. S.
SCALE: N. T. S.
MATERIAL:
DATE: Feb 2025
CHK'D:
APP'D:
DRAWING NO.: 2A of 3

A. BSF ENCLOSURES (SEE § 6.79, FIGURE 21)

- (1) THE WALLS OF BSFS MUST BE LINED WITH A THIRTY (30) MIL FLEXIBLE PVC LINER WITH ALL BOOTS, PATCHES, REPAIRS, AND SEAMS HAVING THE SAME PHYSICAL PROPERTIES AS THE LINER MATERIAL.
- (2) ANY PENETRATION THROUGH THE PVC LINER WALL SHALL BE DONE WITH A PVC BOOT ATTACHMENT GLUED TO THE LINER WITH THE APPROPRIATE RESILIENT SEALER.
- (3) SUPPORT WALLS ARE NEEDED TO PREVENT CAVING OF THE FILTER WALLS DURING CONSTRUCTION. THESE WALLS SHALL BE RIGID AND MADE OF SACRIFICIAL PLYWOOD OR PARTICLE BOARD (OR EQUIVALENT; PLYWOOD IS INTENDED TO DECOMPOSE OVER TIME) AND SUPPORTED BY AT LEAST ONE ROW OF SIX INCH BY SIX INCH (6" X 6") NOMINAL DIMENSION PRESSURE TREATED TIMBERS (OR EQUIVALENT) ABOVE THE FINISH GRADE.
- (4) A PERMANENT TOP FRAME STRUCTURE (SUCH AS PRESSURE TREATED SIX INCH BY SIX INCH (6" X 6") NOMINAL DIMENSION TIMBERS, OR OTHER SUITABLE STRUCTURAL SUPPORT) MUST BE PROVIDED ON ANY PORTION OF A BSF THAT IS INSTALLED ABOVE GRADE. THE TOP FRAME STRUCTURE SHALL BE A MINIMUM OF SIX INCHES (6") BUT NO HIGHER THAN TWENTY FOUR INCHES (24") ABOVE GRADE. THE DESIGN SHALL INCLUDE CROSS-BRACING TO MAINTAIN STRUCTURAL INTEGRITY OF THE FRAME. BELOW GRADE USE OF TIMBERS IS PROHIBITED.

B. BOTTOMLESS SAND FILTER MEDIA SPECIFICATIONS: ALL MEDIA WITHIN THE ENCLOSURE AND BELOW THE COVER STONE SHALL HAVE AN EFFECTIVE SIZE (D10) OF 0.33 MM (+/-) AND UNIFORMITY COEFFICIENT (D60/D10) OF 2.0 TO 4.0. THE MAXIMUM ALLOWABLE PERCENTAGE OF FINES PASSING THROUGH A NUMBER 200 SIEVE SHALL BE ONE PERCENT (1%). OTHER THAN THE GRADATION AND FINE CONTENT SPECIFIED ABOVE, THE SAND MEDIA SHALL MEET THE OTHER ASTM C- 33 SAND SPECIFICATIONS.

C. BSF DISTRIBUTION LATERALS

- (1) GENERAL: INFLUENT APPLIED TO A BSF SHALL BE DISTRIBUTED OVER THE SAND SURFACE USING SMALL DIAMETER, PRESSURE RATED SCH 40 PVC PIPE.
- (2) ORIFICES: A SERIES OF CLEAN, UNIFORM, ONE-EIGHTH (1/8") INCH DIAMETER HOLES (ORIFICES) SHALL BE DRILLED IN THE DISTRIBUTION LATERALS AND SPACED NO LESS THAN FOURTEEN (14") INCHES AND NO MORE THAN TWENTY FOUR (24") INCHES APART. TWO (2) ORIFICES IN EACH LATERAL SHALL BE DRILLED POINTING UP (12 O'CLOCK POSITION) AND BE LOCATED APPROXIMATELY ONE THIRD (1/3) AND TWO THIRDS (2/3), RESPECTIVELY, ALONG THE LENGTH OF EACH LATERAL. ALL OTHER ORIFICES SHALL BE DRILLED POINTING DOWN (6 O'CLOCK POSITION). ORIFICE SHIELDS SHALL BE PLACED OVER EACH ORIFICE (ABOVE OR BELOW THE LATERAL, AS REQUIRED). ORIFICE SHIELDS PLACED BELOW ANY ORIFICE SHALL CONTAIN SLOTS OR HOLES TO PROVIDE FREE DRAINING (USUALLY REFERRED TO AS COLD WEATHER ORIFICE SHIELDS, SEE § 6.80 OF THIS PART, FIGURE 22).
- (3) LATERALS: LATERALS SHALL BE SPACED BETWEEN FOURTEEN (14) INCHES AND TWENTY FOUR (24) INCHES ON CENTER AND SHALL BE NO LONGER THAN FIFTY (50) FEET.
- (4) LATERAL ENDS: THE DISTAL END OF EACH BSF LATERAL SHALL BE FITTED WITH A FORTY FIVE (45) DEGREE ELBOW AND CLOSED OFF WITH EITHER A BALL VALVE OR A THREADED END AND CAP (SEE § 6.81 OF THIS PART, FIGURE 23).

(5) ORIFICE SQUARE GRID AND SPACE TO LINER: LATERAL SPACING AND ORIFICE SPACING SHALL BE AS CLOSE TO SQUARE AS PRACTICABLE. THE SPACE FROM THE ENDS OF THE LATERALS TO THE LINER SHALL BE CLOSE TO HALF THE ORIFICE SPACING AND BE ABLE TO ACCOMMODATE THE FITTINGS (I.E.: 45 DEGREE ELBOW, THREADED END ADAPTER AND CAP) AND HAVE SUFFICIENT SPACE FOR MAINTENANCE ACTIVITIES. SEE § 6.78 OF THIS PART, FIGURE 20.

D. BSF INSPECTION WELL: ONE (1) INSPECTION WELL SHALL BE INSTALLED IN THE APPROXIMATE CENTER OF THE FILTER AND EXTEND DOWN TO THE SAND AND NATIVE SOIL INTERFACE (SEE §§ 6.76, 6.77, AND 6.78 OF THIS PART, FIGURES 18, 19 AND 20). LARGER ZONED BSFS SHALL HAVE AT LEAST ONE (1) INSPECTION WELL PER ZONE.

E. BSF COVER STONE: A THREE EIGHTHS TO ONE HALF (3/8 - 1/2") INCH ROUND OR SUB-ROUNDED, SCREENED OR CRUSHED, UNIFORM IN SIZE SO THAT NO MORE THAN FIVE PERCENT (5%) OF THE SAMPLE IS GREATER THAN ONE HALF INCH (1/2") AND NO MORE THAN FIVE PERCENT (5%) SHALL PASS A THREE EIGHTHS INCH (3/8") SIEVE, NON-SHALE OR OTHER SOFT STONE, DOUBLE WASHED, CONTAINING LITTLE OR NO FINES SHALL BE USED FOR COVER STONE ON THE BSF. TOTAL DEPTH OF THE STONE SHALL BE EIGHT TO NINE (8-9) INCHES, DEPENDING ON THE SIZE OF THE LATERAL (SEE § 6.79 OF THIS PART, FIGURE 21 AND INSTALLATION PROCEDURES).

3. BSF INSTALLATION SPECIFICATIONS

- A. THE PROPOSED BSF LOCATION SHALL BE STAKED OUT AND PROTECTED PRIOR TO ANY SITE PREPARATION ACTIVITIES.**
- B. INSTALLATION OF BSF MEDIA**
 - (1) BSF BASE: SOD, VEGETATION, OR DEAD OR DECAYING ORGANIC LITTER OR ANY ORGANIC SOIL HORIZON SHALL BE REMOVED FROM THE AREA PLANNED FOR THE BSF INSTALLATION. ONCE THE PROPER DESIGN ELEVATION FOR THE BSF BASE HAS BEEN REACHED AND THE ENCLOSURE IS IN PLACE, THREE (3) INCHES OF THE NATIVE SOIL MATERIAL SHALL BE SCARIFIED AND THOROUGHLY MIXED WITH 3 INCHES OF THE SAND MEDIA (SEE § 6.79 OF THIS PART, FIGURE 21). PERIMETER STRIPPING IS PROHIBITED. EXCAVATION OF SOIL BENEATH THE ESTABLISHED NATIVE SOIL AND FILTER SAND INTERFACE IS PROHIBITED UNLESS A BOULDER, STONE, FILL, OR OTHER UNEXPECTED CONDITION IS ENCOUNTERED. ONLY APPROVED GRAVEL (§ 6.33(M) OF THIS PART) OR BSF SAND MEDIA SHALL BE PLACED FOR BACKFILLING THE BASE OF THE BSF BEFORE PLACEMENT OF THE REQUIRED SAND MEDIA.
 - (2) PLACING SAND MEDIA: ALL SAND MEDIA PLACED WITHIN THE BSF ENCLOSURE AND BELOW THE COVER STONE MUST MEET THE REQUIREMENTS OF § 6.37(C)(2)(B) OF THIS PART AND MUST BE A MINIMUM OF TWENTY-FOUR (24) INCHES DEEP. THE EXCAVATOR OR BACKHOE BUCKET USED TO PLACE MEDIA IN THE FILTER SHALL BE WASHED THOROUGHLY TO REMOVE ANY MUD OR FINES BEFORE THE LOADING PROCESS BEGINS. THE SAND MEDIA SHALL BE PLACED IN LEVEL EIGHT (8) INCH LIFTS IN THE FILTER. EACH LIFT OF SAND MEDIA SHALL BE LIGHTLY COMPACTED.
 - (3) PLACING STONE COVER: AFTER THE REQUIRED AMOUNT OF FILTER SAND HAS BEEN ADDED TO THE FILTER, PLACE THREE (3) INCHES OF THREE-EIGHTHS INCH (3/8") DOUBLE WASHED STONE OVER THE FILTER SAND. AFTER THE DISTRIBUTION LATERALS AND ORIFICE SHIELDS HAVE BEEN ASSEMBLED ATOP THE COVER STONE, SIX (6) MORE INCHES OF COVER STONE SHALL BE ADDED. THE TOTAL DEPTH OF COVER STONE OVER THE SAND MEDIA WILL BE EIGHT (8) TO NINE (9) INCHES, DEPENDING ON THE SIZE OF LATERAL PIPE EMPLOYED (SEE § 6.79 OF THIS PART, FIGURE 21).
 - (4) BURIAL PRECAUTIONS: BSFS SHALL NOT BE BURIED OR COVERED BY TOPSOIL OR ANY OTHER MATERIAL WHICH WILL LIMIT THE GAS OR OXYGEN MOVEMENT INTO AND OUT OF THE FILTER. DESIGNER SHALL ALSO NOTE ON THEIR PLANS THAT THE AREA OF THE BSF SHALL BE TREATED AS A WASTEWATER UTILITY AS TAMPERING WITH A BSF MAY PRESENT A PUBLIC HEALTH RISK. THE BSF SHALL BE ACCESSED AND SERVICED BY TRAINED PROFESSIONALS ONLY.

GENERAL NOTES FOR BSF

- 1) SEE ATTACHED TYPICALS FOR DESIGN CRITERIA.
- 2. REMOVE ALL TREES, BRUSH, STUMPS AND BOULDERS FOR 10' AROUND SYSTEM.
- 3) THERE ARE NO OTHER KNOWN WELLS (EXISTING OR PROPOSED) EXCEPT AS SHOWN WITHIN 200' OF PROPOSED OWTS.
- 4) THERE ARE NO OTHER KNOWN OWTS' (EXISTING OR PROPOSED) EXCEPT AS SHOWN WITHIN 200' OF PROPOSED WELL. (IF APPLICABLE)
- 5. THERE ARE NO OTHER KNOWN PUBLIC WELLS (EXISTING OR PROPOSED) EXCEPT AS SHOWN WITHIN 500' OF THE PROPOSED OWTS.
- 6. REMOVE FILL, "A" HORIZON AS REQUIRED AND ANY COMPACTED SOILS IN "A" OR "B" HORIZON TO ACCEPTABLE MATERIAL. SCARIFY AND REPLACE WITH A MINIMUM 6" OF SANDY LOAM / LOAMY SAND OR SEPTIC GRAVEL TO PROPER BOTTOM SAND LAYER. OTHERWISE SCARIFY BOTTOM OF BSF AREA PRIOR TO PLACING SAND FILTER MEDIA. MIX AND SCARIFY A MINIMUM 3" OF NATIVE MATERIAL WITH A MINIMUM 3" OF SAND. SEE ATTACHED INSTALLATION NOTES AND PLAN FOR ADDITIONAL DETAILS.
- 7) MAINTAIN SPECIFIED ELEVATION FOR A 5' PERIMETER OF THE EDGE OF THE PROPOSED BSF THEN 3-1 SLOPE TO GRADE.
- 8) NO PARKING OR VEHICULAR TRAFFIC ALLOWED OVER ANY PORTION OF THE OWTS UNLESS OTHERWISE SPECIFIED. CAST IRON, SCHEDULE 40, OR EQUIVALENT PIPE TO BE USED WHEN LOCATED UNDER DRIVEWAY.
- 9) NO SUBDRAINS ALLOWED WITHIN 25' OF LEACHING SYSTEM, INCLUDING FOUNDATION DRAIN.
- 10) ALL GENERAL PIPING TO BE SDR 35 OR EQUAL UNLESS SPECIFIED.
- 11) SEPTIC TANK TO BE A MINIMUM DISTANCE OF 75' FROM WELL (IF APPLICABLE)

BUOYANCY CALCULATIONS DATA

CEMENT = 150 LBS./CU/FT-WATER = 62.4 LBS./CU/FT-SOIL = 115 LBS./CU/FT

1500 GALLON TANK

OUTSIDE TANK DIMENSIONS 5.67'W X 10.5' X 5.58'H
 TOP = 5.67'W X 10.5'L X .33' THICK = 19.85 C.F. X 150 LBS./C.F. = 2,977.50 LBS.
 BOTTOM = 5.67'W X 10.5'L X .33' THICK = 19.85 C.F. X 150 LBS./C.F. = 2,977.50 LBS.
 SIDES = (5.0H X 21L) + (5.0 X 10.34)X .25 = 39.18 C.F. X 150 LBS./C.F. = 5,877.00 LBS.
 TOTAL = 78.88 C.F. X 150 LBS./C.F. = 11,832 LBS.
 WEIGHT OF TANK = 11,832 LBS.
 WATER 5.67'W X 10.5'L X 5.58'DEPH = 332.21 C.F. X 62.4 LBS. = 20,729.90 LBS.

SOIL COVER 5.67'X 10.5' X 2' = 119.07 C.F. X 115 LBS. = 13,693LBS.

WEIGHT OF TANK = 11,088LBS. TOTAL = 24,781LBS.

WEIGHT OF TANK AND GROUND COVER(24,781LBS) > WEIGHT OF WATER(20,730LBS)

IE. TANK WILL NOT FLOAT

ADDITIONAL REINFORCMENT STEEL OF 200 LBS. HAS NOT BEEN USED IN THESE CALCULATIONS.

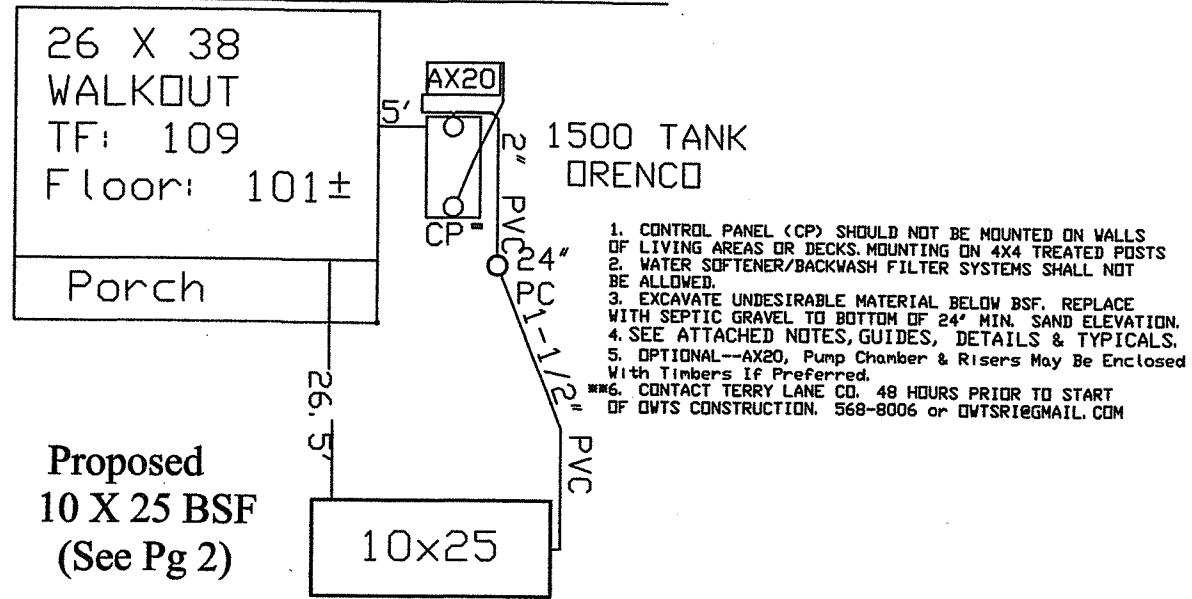
30" PLASTIC PUMP CHAMBE WITH CONCRETE BASE AND SOIL COVER.

WEIGHT OF 84" PUMP CHAMBER = ASSUME 150 LBS.
 CEMENT BASE = 3.5'X 3.5' = 12.25 CF/FT X 6" H = 6.125 CF X 150LBS = 918.75 LBS
 918.75 LBS - INTERIOR OF 4.9 CF X 150LBS = 735 LBS/2 = 367.5 LBS = 354 LBS
 MINIMUM 6" CEMENT BELOW AND AROUND RIBBED CHAMBER
 WEIGHT OF CONCRETE BASE 6" AROUND AND BELOW RIBBED CHAMBER = 1272.75 LBS
 78" SOIL OVER CONCRETE FLANGE = 12.25 CF 6.5 = 79.62 CF - 31.85 CF = 47.8 X 115 = 5,497 LBS
 WATER VOLUME
 3.14 X (1.25 X 1.25) = 4.9 C.F. X 62.4 LBS. = 306.25 LBS/FT
 60" WATER X 306.25 LBS./FT = 1,531.25 LBS.

WEIGHT CHAMBER, SOIL & CEMENT (6919.75 LBS. > WEIGHT WATER (1,531.25 LBS))

IE. CHAMBER WILL NOT FLOAT

INSTALLATION LAYOUT



Proposed
10 X 25 BSF
(See Pg 2)

REVISIONS			BSF DESIGN TYPICALS		
NO.	DATE	BY	for JOHN LACE		
		T. D.	Town Farm Rd. Burrillville, RI AP / Lot 10		
			DRAWN BY	SCALE N. T. S.	MATERIAL
			CHK'D	DATE SEPT 2024	DRAWING NO.
			TRACED	APP'D	2B OF 3

RAIN GARDEN DETAILS

See Notes/Guides Below

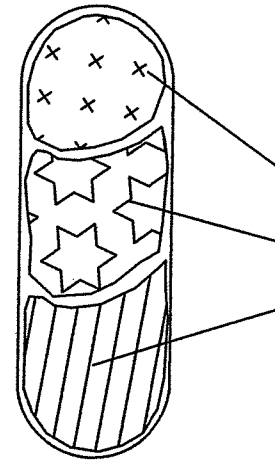
32X38 Roof Area = 1216 S/F, Use 1,300 S/F

1,300 S/F X .16 (8" Depth) = 208 S/F

Min. Area Required = 208 SF

Total Area Provided = 216 S/F

Soil Type: Silty Soils Rain Garden Sizing Based On URI Outreach Center Guidelines & STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT



RAIN GARDEN TYPICAL PLANTING SCHEDULE

-NO SCALE-

WETLAND & NON WETLAND PLANTS

MAX 24" O.C.

WETLAND PLANTS

MAX 24" O.C.

NON WETLAND PLANTS

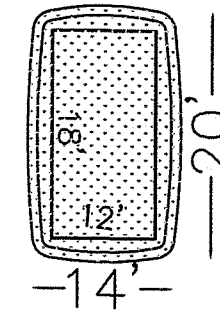
MAX 24" O.C.

RAIN GARDEN 8" DEEP

RG Top View/Dimensions

NTS

216 SF+



MAX INFLOW FROM 4" PVC = .68 GALS/LINEAR FT

RAIN GARDEN CONSTRUCTION GUIDE

DIGGING THE RAIN GARDEN

BEFORE YOU START DIGGING, CALL DIG SAFE (1-888-DIG-SAFE OR 344-7233) TO CHECK FOR UNDERGROUND UTILITIES IN YOUR CHOSEN GARDEN SITE. MARK THE BORDERS OF YOUR GARDEN EDGE.

LOOSEN ALL THE SOIL IN THE GARDEN TO A DEPTH OF ABOUT 2.5 FEET.

REMOVE THE TURF GRASS AND DIG YOUR GARDEN APPROXIMATELY 8" TO 10" DEEP. USE THE SOIL TO BUILD A BERM AROUND THE GARDEN EDGES.

AMEND THE SOIL WITH 2' - 3" OF COMPOST. MIX IN WELL.

MULCH THE GARDEN. USE COARSE, FIBROUS, SHREDDED WOOD CHIPS THAT WON'T FLOAT OR BLOW AWAY. APPLY THE MULCH ABOUT 2" - 3" DEEP.

THIS WILL HELP KEEP MOISTURE IN AND WEEDS OUT.

CHOOSING THE NATIVE PLANTS

FOLLOWING A RAIN STORM, A LARGE AMOUNT OF WATER WILL BE DIRECTED TOWARD THE RAIN GARDEN. MOST OF THE STORMWATER RUNOFF WILL GO TO THE LOWEST POINT IN THE CENTER. PLANTS MUST BE ABLE TO TOLERATE THESE SOAKING CONDITIONS. ON THE OTHER HAND, THESE SAME PLANTS WILL NEED TO GROW WELL DURING THE DRY CONDITIONS BETWEEN RAINSTORMS. THERE ARE A VARIETY OF NATIVE PLANTS THAT CAN SURVIVE DESPITE THESE CHANGES. YOU CAN CHOOSE TREES, SHRUBS, VINES, GRASSES AND HERBACEOUS PLANTS WITH A WIDE VARIETY OF FLOWER AND BERRY COLORS, PLANT HEIGHTS AND BLOOMING TIMES SO EACH GARDENER CAN PLAN THEIR OWN UNIQUE GARDEN DESIGN.

ALL THESE PLANTS CAN TOLERATE BOTH WET AND DRY CONDITIONS TO SOME DEGREE, HOWEVER, SOME TOLERATE SOAKING CONDITIONS BETTER THAN OTHERS. YOU CAN THINK OF THIS WHEN YOU CHOOSE PLANTS THAT WILL GROW IN THE MIDDLE VS. THE EDGES OF YOUR GARDEN. THE MIDDLE, BEING THE LOWEST AREA, WILL RECEIVE MOST OF THE STORMWATER RUNOFF.

PLANTS THAT USUALLY GROW IN WETLANDS BUT OCCASIONALLY IN NON-WETLANDS

VERNONIA NOVEBORACENSIS (NEW YORK IRONWEED)

CORNUS AMOMUM (SILKY DOGWOOD)

SPIRAEA TOMENTOSA (STEEPLEBUSH)

EUPATORIUM MACULATUM (JOE-PYE WEED)

PLANTS THAT GROW IN BOTH WETLANDS AND NON-WETLANDS

SOLIDAGO RUGOSA (ROUGH GOLDENROD)

PANICUM VIRGATUM (SWITCHGRASS)

PLANTS THAT ARE FOUND IN WETLANDS BUT LESS OFTEN THAN THE PLANTS LISTED ABOVE

LINDERA BENZOIN (SPICEBUSH)

ASTER NOVAE-ANGLIAE (NEW ENGLAND ASTER)

PLANT THE FLOWERS AND GRASSES

FOLLOW THE DESIGN YOU CREATED AND PLACE YOUR PLANTS IN THE APPROXIMATE POSITIONS.

STEP BACK AND LOOK AT THE GARDEN AND THE DESIGN. PLANTS SHOULD BE PLACED ABOUT 1 FOOT

APART FROM EACH OTHER. ONCE YOU ARE SATISFIED YOU CAN START PLANTING THE FLOWERS AND

GRASSES USING A HAND TROWEL.

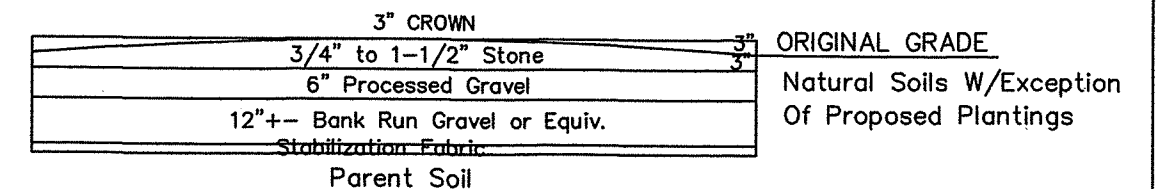
PLANTS ARE INSTALLED AND MULCH IS ADDED

WATER AND ARRANGE DOWNSPOUTS

AFTER YOU HAVE PLANTED THE GARDEN WATER EVERY OTHER DAY FOR 2 WEEKS IF IT DOESN'T RAIN

UNTIL GARDEN LOOKS TO BE GROWING ON ITS OWN. GOOD WATER TECHNIQUES AND MAINTENANCE IS THE KEY TO A QUALITY RAIN GARDEN.

DRIVEWAY CONSTRUCTION DETAILS



DRIVEWAY CONSTRUCTION NOTES

1. PLACE EROSION CONTROLS PRIOR TO ANY EXCAVATION
2. AS NEEDED REMOVE "A" (loam) & SOME "B" (subsoil) HORIZON SOILS IN ROAD AREA ONLY.
3. INSTALL STABILIZATION FABRIC AT BOTTOM EXCAVATION.
4. PLACE & COMPACT 12" +/- BANK RUN GRAVEL ABOVE FABRIC.
5. PLACE MIN 6" PROCESSED GRAVEL ABOVE BANK RUN.
6. PLACE A MIN 3" OF STONE NEXT TO 3" CROWN AT CENTER.

TERRY LANE COMPANY
LAND USE FACILITATORS - REAL ESTATE PRACTITIONERS
15A Terry Ln, Chepachet, RI 02814 (401)568-8006 OWTSRI@GMAIL.COM

PROPOSED STORMWATER DRAINAGE

JOHN LACE
Town Farm Rd.
Burrillville AP 88 / Lot 10

DRAWN BY TD	SCALE NTS	3 of 3
CHK'D TD/RFA	DATE 2/20/25	