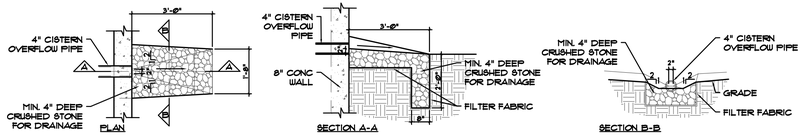
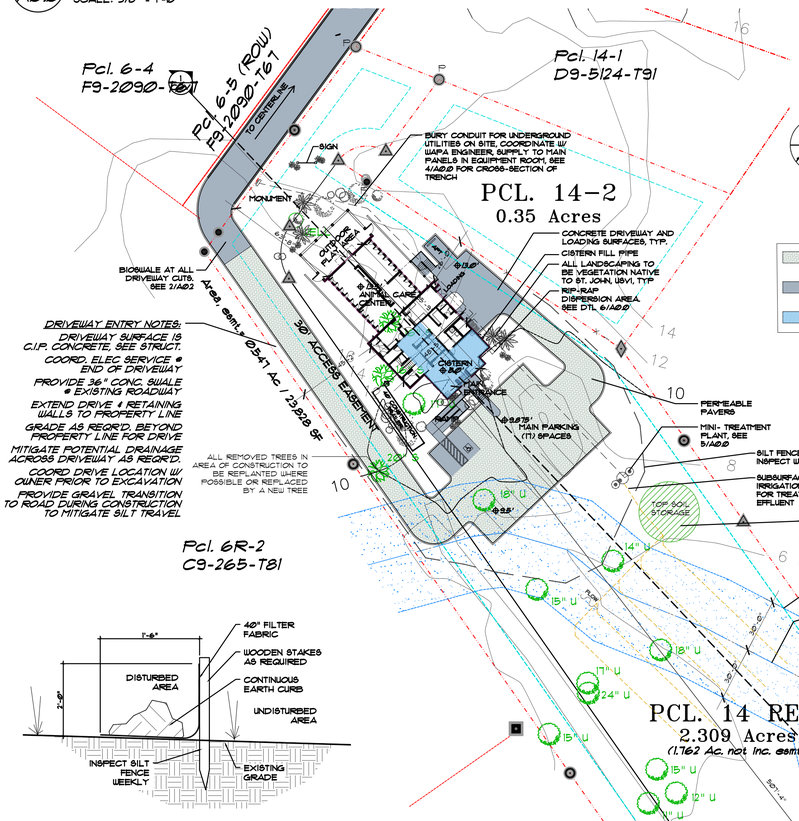


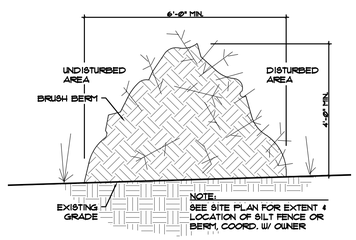
6 A0.0 RIPRAP OUTLET PROTECTION

SCALE: 3/8" = 1'-0"



3 A0.0 SILT FENCE

SCALE: 3/8" = 1'-0"



2 A0.0 SILT BERM

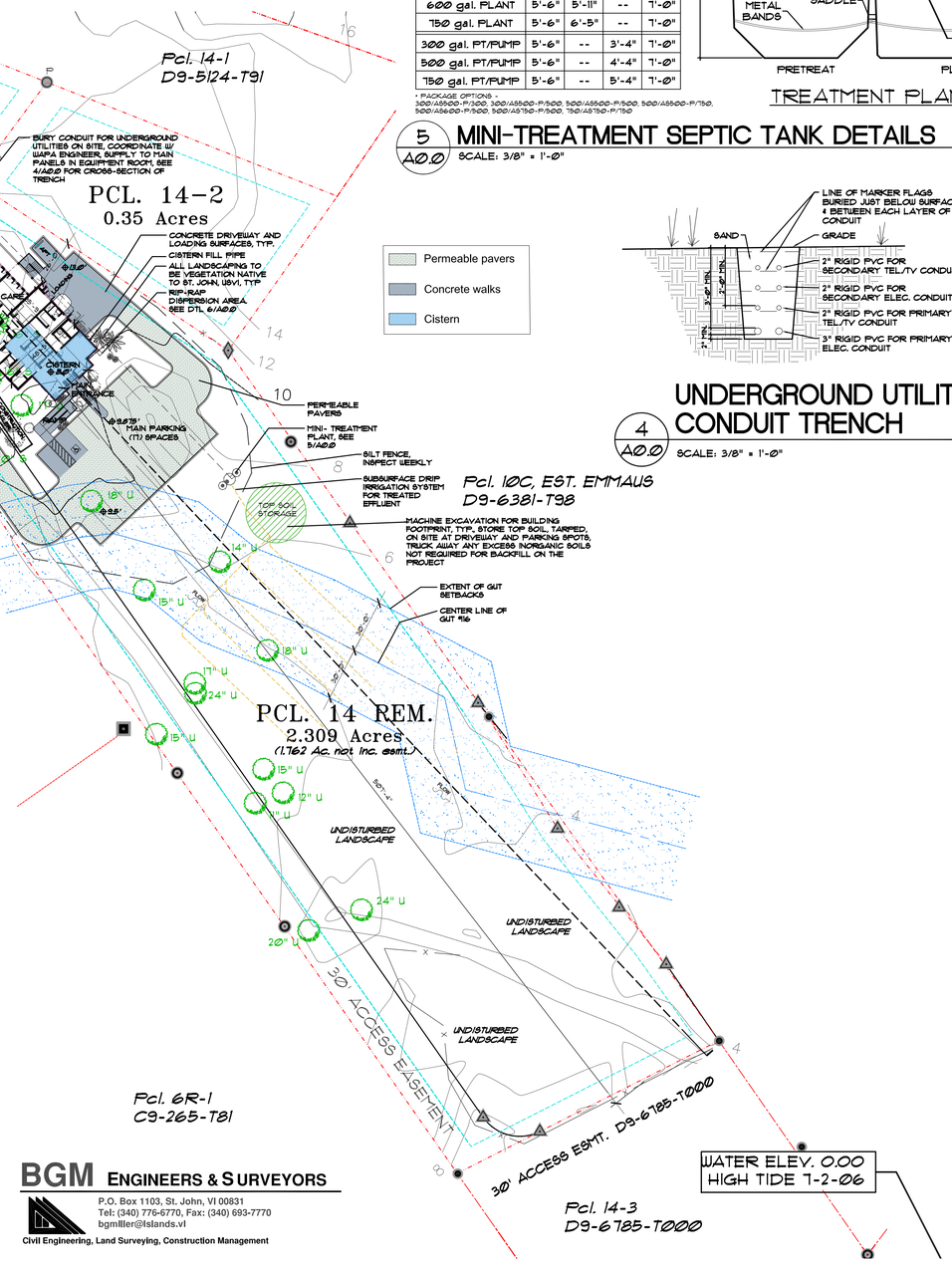
SCALE: 3/8" = 1'-0"

1 A0.0 SITE PLAN

NORTH

0 4' 40' 80'

SCALE: 1" = 40'-0"



Permeable pavers
Concrete walks
Cistern

BGM ENGINEERS & SURVEYORS
P.O. Box 1103, St. John, VI 00831
Tel: (340) 776-6770, Fax: (340) 693-7770
bgmiller@islands.vi
Civil Engineering, Land Surveying, Construction Management

AS SERIES - AEROBIC TREATMENT UNIT (ATU)

PRODUCT INFORMATION
AQUA SAFE
P.O. BOX 1165
ST. JOHN VI 00831
(340) 513-9913
WWW.STJANBOTANICA.COM

CONSTRUCTION
PREMANUFACTURED OF 1/2 INCH FIBERGLASS.

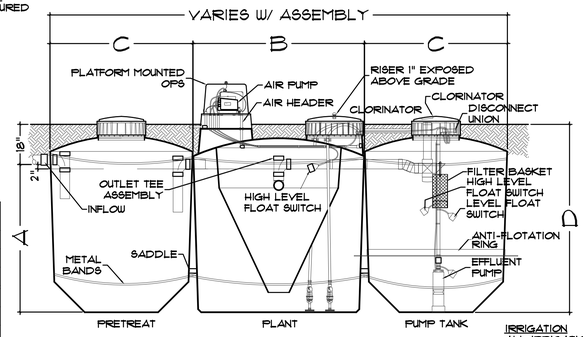
REQUIRED SYSTEM CHART

No. of BEDROOMS	PLANT SIZE	Gal. per DAY
1 or 2	AS500-P	500 gpd
3	AS600-P	600 gpd
4 or 5	AS750-P	750 gpd
6 or MORE	REQS MULTIPLE UNITS	

COMPONENT DIMENSIONS

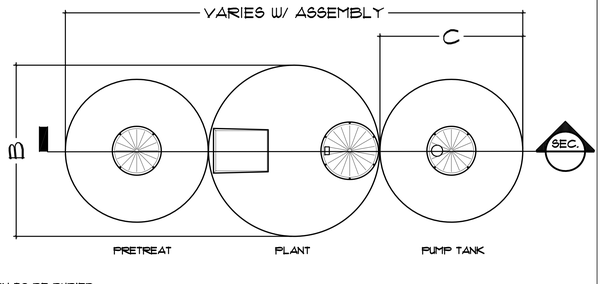
UNIT SIZE	A	B	C	D
500 gal. PLANT	5'-6"	5'-5"	--	7'-0"
600 gal. PLANT	5'-6"	5'-11"	--	7'-0"
750 gal. PLANT	5'-6"	6'-5"	--	7'-0"
300 gal. PT/PUMP	5'-6"	--	3'-4"	7'-0"
500 gal. PT/PUMP	5'-6"	--	4'-4"	7'-0"
750 gal. PT/PUMP	5'-6"	--	5'-4"	7'-0"

* PACKAGE OPTIONS -
300/AS500-P/300, 300/AS500-P/500, 500/AS500-P/500, 500/AS500-P/750, 500/AS600-P/500, 500/AS750-P/500, 750/AS750-P/750



TREATMENT PLANT SECTION

IRRIGATION
ALL IRRIGATION TO BE BURIED DRIP LINE IRRIGATION, COORD. W/ LANDSCAPER



TREATMENT PLANT PLAN

5 A0.0 MINI-TREATMENT SEPTIC TANK DETAILS

SCALE: 3/8" = 1'-0"

UNDERGROUND UTILITY CONDUIT TRENCH

4 A0.0

SCALE: 3/8" = 1'-0"

SITE NOTES:

1. Contractor shall visit the site to verify plan and existing dimensions and conditions and shall notify the Architect and or Engineer, in writing, of discrepancies before proceeding with the work. Contractor accepts responsibility for information reasonably inferred from site visit and from information provided.
2. Notify Planning and Natural Resources within 48 hours of commencement of work.
3. Provide signage visible and accessible from road with estate parcel number and all required permit information.
4. Erosion control shall be implemented as required by local authorities. During construction, provide siltation fence or brush barn at all excavated areas.
5. Site disturbance shall be limited as close as possible to the area of construction Natural slope shall be retained as much as possible.
6. Trees shall be retained where possible and protected from damage of construction processes and machines during construction. Where tree removal is required, stumps shall be removed.
7. Maintain 3% minimum slope away from building for at least five (5) feet from the perimeter. Natural drainage shall not be concentrated or diverted onto adjacent property or public right of way.
8. The top of the septic tank shall be located at a lower elevation than the bottom of the cisterns.
9. Retaining walls shall be erected where shown or as required. They shall be constructed of reinforced concrete, reinforced concrete masonry, or stone and to a height required for retainment.
10. New exterior walks, patios, driveways, etc., shall be constructed on a minimum of 4" of compacted, non-expansive soil.
11. Soil beneath slabs and of perimeter or foundations shall be treated for termites before placing concrete. Soil and perimeter shall be treated at completion of work. An approved termite exterminator shall poison the ground in accordance with the Building Research Advisory Board report and provide a five (5) year warranty of his work, covering repair and replacement of termite damage.
12. Low maintenance ground cover such as Wedelia or Goata Foot shall be planted on all cut/fill slopes and other disturbed grades as final grades are established within three (3) months of construction.
13. Footing design is based on the following conditions:
SOIL BEARING CAPACITY: Minimum assumed 3000 psf, this value is to be verified in the field prior to pouring footings by the Structural Engineer.
SOILS: Footings, foundations walls & slabs shall not be placed on or in marine clay, peat or other organic materials.
14. All footings shall project at least 1'-0" into undisturbed natural soil or compacted structural fill. Where required, step footings in a ratio of 2 horizontal to 1 vertical.
15. Compact backfill below building slabs and footings: Soil fill material must be approved by the Structural Engineer prior to placement. Material to be free from organic material, concrete, asphalt or other deleterious substances. Prior to placing fill, the existing surface shall be cleared of refuse or organic materials. Proofroll subgrade removing soft or compressive materials. Fill material shall be placed in layers not to exceed 8" and compacted to minimum 95 % of the dry maximum density as determined by ASTM D698.
16. Footing excavations shall be inspected by the building official prior to pouring concrete.
17. Provide 4" minimum porous pipe at exterior side of all exterior footings at basement walls. Tile to be set on 2" gravel bed with 6-8" gravel cover and should drain to daylight. Install filter fabric around gravel and drain tile.
18. Provide free draining, granular backfill with a maximum equivalent fluid pressure = 30 pcf per foot of depth against basement & retaining walls. If back-fill pressure exceeds 30 pcf then wall must be designed for actual pressures by the Structural Engineer.
19. Fine grading around new construction shall be included in the contract for construction. Save and store topsoil in a manner as to provide it and prevent its loss through runoff. Topsoil shall be placed in an approved manner. Bringing soil to or removing soil from the site as needed is considered the responsibility of the General Contractor and to be included in this Contract.
20. Elevations on the drawings are referenced to the benchmark on the site plan.
21. During the initial excavation of the site, the Architect is to be on site to assist in the placement of large boulders for future decorative use. During the excavation for foundations, the structural engineer is to be present to inspect soil. It is understood that the engineer will adjust the structure as necessary. Construction of the foundation will not begin without permission from the Structural Engineer.

GENERAL NOTES:

1. ALL CONSTRUCTION, INCLUDING MATERIALS AND WORKMANSHIP, SHALL COMPLY TO ALL APPLICABLE GOVERNING CODES AND REGULATIONS.
2. THE OWNER SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS PRIOR TO STARTING WORK AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
3. WORKING DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWINGS.
4. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS CONTAINED IN THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER. A SOLUTION IS TO BE AGREED UPON BEFORE PROCEEDING WITH THE WORK.
5. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE SIMILAR WORK ON THE PROJECT.
6. ELEVATIONS ON THE DRAWINGS ARE REFERENCED TO THE SITE PLAN.
7. ALL JOINTS AND PENETRATIONS IN THE BUILDING ENVELOPE SHALL BE SEALED WITH THE APPROPRIATE TYPE OF CAULK OR SEALANT.

PROJECT TEAM:

PROJECT APPLICANT :	BAREFOOT DESIGN GROUP, LLC P.O. BOX 1772 ST. JOHN, USVI 00831 TEL: (340) 693-7665, FAX: (340) 693-8411
PROJECT OWNER :	ANIMAL CARE CENTER OF ST. JOHN PO BOX 429 ST. JOHN, VI 00831
PROJECT ARCHITECT :	BAREFOOT DESIGN GROUP, LLC P.O. BOX 1772 ST. JOHN, USVI 00831 TEL: (340) 693-7665, FAX: (340) 693-8411
STRUCTURAL ENGINEER :	TOTAL ENGINEERING LTD. PO BOX 3691 SEA COVE BAY TORTOLA, BVI TEL: (284) 494-2987, FAX: (284) 494-0775
SURVEYOR :	MARVIN BERNING and ASSOCIATES 6501 RED HOOK PLAZA, SUITE 201 ST. THOMAS, USVI 00802 TEL: (340) 775-6551

SITE INFORMATION:

PLOT:	PARCEL NO. 14 Rem.
ESTATE:	EST. CAROLINA
ISLAND:	ST. JOHN, U.S.V.I.
ZONING:	R-2, VARIANCE W/ ACT 8727
PROPOSED USE:	ANIMAL SHELTER/CLINIC
AREA OF LOT:	2.309 ACRES BY THIS SURVEY
BUILDING FLOOR AREA:	5,503 SF.
BUILDING FOOT PRINT: (INCL. VERANDAS, POOL...)	3,728 SF.
FLOOR AREA RATIO (FAR)	5.5% (HOUSE AREA/LOT AREA)
NUMBER OF ON-SITE PARKING SPACES:	18 SPACES
SET BACK FROM STREET PROPERTY LINES =	15'-0", SEE SITE PLAN
SET BACK FROM SIDE PROPERTY LINES =	10'-0", SEE SITE PLAN
SET BACK FROM REAR PROPERTY LINE =	10'-0", SEE SITE PLAN

BUILDING TABULATIONS:

CISTERN LEVEL AREA =		
INTERIOR SPACE =	0 SF.	
CISTERNS =		636 SF.
MAIN LEVEL AREA =		
ACC INTERIOR SPACE =	3,382 SF.	
COVERED EXTERIOR VERANDAS =		29 SF.
UNCOVERED EXTERIOR VERANDAS =		0 SF.
GARAGE, STORAGE, EQUIPMENT ROOMS =		288 SF.
UPPER LEVEL AREA =		
ACC INTERIOR SPACE =	1,394 SF.	
CARETAKER INTERIOR SPACE =	727 SF.	
COVERED EXTERIOR VERANDAS =		137 SF.
TOTAL HABITABLE (INTERIOR) AREA =	5,503 SF.	

CISTERN REQUIREMENTS:

ACC ROOF AREA =	2,655 SF.	
2,655 x 4.35F. x 4.5 GAL. SF. =		11,947 GAL.
RESIDENTIAL ONE STORY ROOF AREA =	727 SF.	
727 SF. x 10 GAL. SF. (1 STORY ROOF) =		7,270 GAL.
TOTAL CISTERN REQUIREMENTS =		19,217 GAL.

CISTERN CAPACITY:

CISTERN #1 =	
233 SF x 4'-0" = 932 C.F. x 7.5 GAL/ C.F. =	6,990 GAL.
CISTERN #2 =	
321 SF x 4'-0" = 1,284 C.F. x 7.5 GAL/ C.F. =	9,630 GAL.
CISTERN #3 =	
384 SF x 4'-0" = 1,536 C.F. x 7.5 GAL/ C.F. =	11,520 GAL.
TOTAL FRESH WATER CISTERN CAPACITY =	28,140 GAL.

ARCHITECT'S OR ENGINEER'S SEAL:

ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE USED OR DISCLOSED WITHOUT PRIOR CONSENT OF THE ARCHITECT.
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The Animal Care Center

Parcel 14 Rem. Estate Carolina, St John, United States Virgin Islands

Barefoot Design Group, LLC
P.O. box 1772 mongoose junction st. john usvi 00831 (340) 693-7665

DISTRIBUTION

NO.	DATE	ITEM
4	2/16/24	Major CZM Response
3	8/16/23	Major CZM Permit
2	12/5/18	CZM/Driveway Set
1	11/5/18	Owner's Review

DRAWING TITLE:
PROJECT DATA SITE PLAN and DETAILS

SHEET #
A0.0