

COWPET BAY WEST SEAWATER INTAKE PROJECT

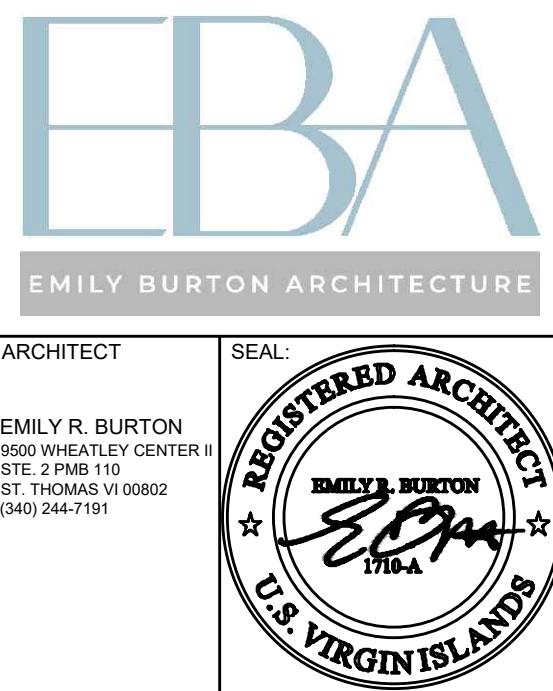
COWPET BAY
8-1-2 ESTATE NAZARETH
Red Hook Quarter
St. Thomas, Virgin Islands



PROJECT RENDER **7**

DRAWING INDEX **1**

<p>ZONING = R-3 - RESIDENTIAL - MEDIUM DENSITY</p> <p>DENSITY PERMITTED: MULTI FAMILY DWELLING UNITS ACTUAL: 104 UNITS</p> <p>OCCUPANCY PERMITTED: 30% ACTUAL: -</p> <p>LOT AREA REQUIRED: 9.07 ACRES ACTUAL: 395,089.2 SQ.FT.</p> <p>LOT WIDTH REQUIRED: - ACTUAL: -</p> <p>FRONT SETBACK REQUIRED: - ACTUAL: -</p> <p>REAR SETBACK REQUIRED: - ACTUAL: -</p> <p>SIDE SETBACK REQUIRED: - ACTUAL: -</p> <p>HEIGHT PERMITTED: 6 STORIES ACTUAL: 3 STORIES</p> <p>VIRGIN ISLANDS SOILS SURVEY SIE SOUTHGATE-ROCK OUTCROP 20%-40% SLOPE</p> <p>PARKING PERMITTED: ONE (1) OFF STREET PARKING FOR EACH DWELLING UNIT ACTUAL: ONE EACH DWELLING UNIT</p>	<p>SCOPE OF WORK APPLICANT PROPOSES THE INSTALLATION OF A SEAWATER INTAKE LINE FROM THE YACHT CLUB DOCK UP TO CBW R.O. PLANT. THE INTAKE LINE WILL BE INSTALLED FROM THE DOCK AND RUN NORTH WEST ALONG CBW PROPERTY LINE.</p> <p>EXISTING FLOOR AREAS CISTERNS: 5,722 SQ FT LOWER LEVEL: 81,121 SQ FT UPPER LEVEL: 81,121 SQ FT TOTAL: 167,964 SQ FT</p> <p>PROPOSED FLOOR AREAS WASTEWATER PLANT: 370 SQ FT TOTAL: 370 SQ FT</p> <p>EXTERIOR WALLS CAST IN PLACE CONCRETE & CMU BLOCK</p> <p>ROOF WOOD FRAMING</p> <p>ROOF AREA 40,560 SQ.FT.</p> <p>CISTERNS CAPACITY</p> <table border="1"> <thead> <tr> <th>BUILDING NUMBER</th><th>SIZE</th><th>GALLONS</th><th>PER CF</th><th>TOTAL GALLONS</th></tr> </thead> <tbody> <tr><td>WINDWARD9.60.5W12H14CF</td><td>10,164</td><td>7.47</td><td></td><td>75,925</td></tr> <tr><td>WINDWARD17.30W14.5H16CF</td><td>6,960</td><td>7.47</td><td></td><td>51,991</td></tr> <tr><td>WINDWARD33.30W14H16CF</td><td>6,720</td><td>7.47</td><td></td><td>50,198</td></tr> <tr><td>WINDWARD35.27W13H17CF</td><td>5,967</td><td>7.47</td><td></td><td>44,573</td></tr> <tr><td>WINDWARD39.30W13.5H18CF</td><td>7,290</td><td>7.47</td><td></td><td>54,456</td></tr> <tr><td>WINDWARD41.28W14H24CF</td><td>9,408</td><td>7.47</td><td></td><td>70,278</td></tr> <tr><td>LEEWARD11.30W14H15CF</td><td>7,200</td><td>7.47</td><td></td><td>53,784</td></tr> <tr><td>LEEWARD11.30W14H15CF</td><td>7,140</td><td>7.47</td><td></td><td>53,345</td></tr> <tr><td>LEEWARD17.29W15H15CF</td><td>6,527</td><td>7.47</td><td></td><td>48,943</td></tr> <tr><td>LEEWARD27.26W14H16CF</td><td>6,972</td><td>7.47</td><td></td><td>46,652</td></tr> <tr><td>LEEWARD35.26W14H24CF</td><td>8,736</td><td>7.47</td><td></td><td>65,258</td></tr> <tr><td>LEEWARD43.20W14H14CF</td><td>3,920</td><td>7.47</td><td></td><td>29,382</td></tr> <tr><td>LEEWARD47.28W19H15CF</td><td>7,990</td><td>7.47</td><td></td><td>59,611</td></tr> <tr><td colspan="5">CISTERNS TOTAL: 704,287 GALLONS</td></tr> </tbody> </table>	BUILDING NUMBER	SIZE	GALLONS	PER CF	TOTAL GALLONS	WINDWARD9.60.5W12H14CF	10,164	7.47		75,925	WINDWARD17.30W14.5H16CF	6,960	7.47		51,991	WINDWARD33.30W14H16CF	6,720	7.47		50,198	WINDWARD35.27W13H17CF	5,967	7.47		44,573	WINDWARD39.30W13.5H18CF	7,290	7.47		54,456	WINDWARD41.28W14H24CF	9,408	7.47		70,278	LEEWARD11.30W14H15CF	7,200	7.47		53,784	LEEWARD11.30W14H15CF	7,140	7.47		53,345	LEEWARD17.29W15H15CF	6,527	7.47		48,943	LEEWARD27.26W14H16CF	6,972	7.47		46,652	LEEWARD35.26W14H24CF	8,736	7.47		65,258	LEEWARD43.20W14H14CF	3,920	7.47		29,382	LEEWARD47.28W19H15CF	7,990	7.47		59,611	CISTERNS TOTAL: 704,287 GALLONS					<p>STRUCTURAL:</p> <p>ELECTRICAL:</p> <p>PLUMBING:</p>
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<p>ARCHITECT: EMILY R. BURTON 9500 WHEATLEY CENTER II STE. 2 PMB 110 ST. THOMAS VI 00802 (340)244-7191</p>																																																																													
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<p>SURVEYOR: BRIAN MOSELEY & ASSOCIATES 4003 DOROTHY LOCKHART ELSKOE Dr. RAPHUNE SUITE 606 ST. THOMAS VI 00802</p>																																																																													
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<p>PROJECT NUMBER: 23_01_2023 DRAWN BY: EH REVIEWED BY: EH PROJECT MANAGER: EH OWNER: COWPET BAY WEST 8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH ST. THOMAS, VI 00802</p>																																																																													
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<p>CONSULTANT DIRECTORY 2</p>																																																																													



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PROJECT NUMBER: 23_01_2023
DRAWN BY: EH
REVIEWED BY: EH
PROJECT MANAGER: EH
OWNER: COWPET BAY WEST
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI 00802

PROJECT :
**COWPET BAY WEST
SEAWATER INTAKE**
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI 00802

SHEET TITLE:
COVER SHEET
SHEET NUMBER:
A0.00

GENERAL NOTES

1.00 NAME AND ADDRESS OF APPLICANT: COWPET BAY WEST ST. THOMAS VI 00802

2.00 LOCATION OF PROJECT: 8-1-2 STATE NAZARETH ST. THOMAS, VI

3.00 ABSTRACT:

APPLICANT PROPOSES THE INSTALLATION OF A SEAWATER INTAKE LINE FROM THE YACHT CLUB DOCK UP TO CBW R.O. PLANT. THE INTAKE LINE WILL BE INSTALLED FROM THE DOCK AND RUN NORTH WEST ALONG CBW PROPERTY LINE.

4.00 STATEMENT OF OBJECTIVE BY THE PROPOSED PROJECT:

APPLICANT PROPOSES THE INSTALLATION OF A SEAWATER INTAKE LINE FROM THE YACHT CLUB DOCK UP TO CBW R.O. PLANT. THE INTAKE LINE WILL BE INSTALLED FROM THE DOCK AND RUN NORTH WEST ALONG CBW PROPERTY LINE.

5.00 DESCRIPTION OF PROJECT

THIS PROJECT INVOLVES PROVIDING A FULLY ENGINEERED SEAWATER INTAKE SYSTEM AND REVERSE OSMOSIS PLANT DESIGNED TO DELIVER 40 GPM TO SUPPORT A 1,000-GPD RO CAPACITY, INCLUDING SCHEDULE 80 PVC PIPING, MARINE-GRADE BOOSTER PUMP, CORROSION-RESISTANT INTAKE SCREEN, AND ABOVE-GRADE CONDUIT RUNS SUPPORTED ON CONCRETE PYLONS. INSTALLATION WILL CONCLUDE WITH PRESSURE TESTING, FLOW VERIFICATION, AND FULL COMMISSIONING TO ENSURE THE SYSTEM PERFORMS TO DESIGN REQUIREMENTS.

THE PROJECT IS LOCATED WITHIN THE BOUNDARIES OF A RESIDENTIAL LOT ZONED R3. THE DEVELOPMENT FOOTPRINT WILL BE KEPT AT A MINIMUM AS MUCH AS POSSIBLE. ACCESS TO EXCAVATION AND CONSTRUCTION WILL REQUIRE THE REMOVAL OF A MINIMUM OF THE EXISTING DIRT BASE AND VEGETATION WHICH WILL BE RE-PLANTED UPON COMPLETION. NATURAL SURROUNDINGS WILL BE FULLY PROTECTED

6.00 SUMMARY OF PROPOSED ACTIVITY (TO BE PROVIDED ON DRAWINGS)

PURPOSE OF PROJECT: THE INSTALLATION OF A SEAWATER INTAKE LINE FROM THE YACHT CLUB DOCK UP TO CBW R.O. PLANT. THE INTAKE LINE WILL BE INSTALLED FROM THE DOCK AND RUN NORTH WEST ALONG CBW PROPERTY LINE.

A. PRESENCE AND LOCATION OF CRITICAL AREAS AND POSSIBLE TROUBLE SPOTS:

THE PROJECT IS LOCATED ON A SITE ADJACENT TO COWPET BAY ON THE EAST END OF ST. THOMAS. NO MAJOR TROUBLE SPOTS ARE PRESENT.

B. PROPOSED METHOD OF LAND CLEARING:

PRELIMINARY CLEARING WILL FIRST BE CLEARED BY HAND. AREAS TO BE USED FOR FURTHER LANDSCAPING SHALL BE HAND CLEARED. CUT AND FILL WILL BE PROPERLY BALANCED AT THE LOCATION OF EXCAVATION AT THE LOT. NO TREES WILL BE REMOVED WHILE CLEARING THE SITE.

C. PROVISIONS TO PRESERVE TOPSOIL AND LIMIT SITE DISTURBANCE:

REMOVE ONLY REQUIRED MINIMUM VEGETATION NECESSARY FOR ANY CONSTRUCTION. THERE SHALL BE NO UNNECESSARY DISTURBANCE OF THE SOIL. ALL THE TOPSOIL SHALL BE STOCKPILED FOR FUTURE USE. REMOVE ONLY REQUIRED MINIMUM VEGETATION NECESSARY FOR THE BUILDING STRUCTURES ALL VEGETATION WHICH HAS BEEN REMOVED AS REQUIRED FOR LAND CLEARING SHALL BE REPLACED WITH THE GRASS, GROUNDCOVER OR/AND SHRUB PLANTINGS. ALL MAJOR TREES ON SITE SHALL BE MAINTAINED AND PROTECTED. ANY MAJOR TREES OVER 4 INCHES CALIPER THAT ARE REMOVED SHALL BE REPLACED ELSEWHERE ON SITE OR BE REPLACED WITH TREES OF SIMILAR SPECIES.

D. EROSION AND SEDIMENTATION CONTROL DEVICES TO BE IMPLEMENTED:

PROVIDE EARTH EROSION AND STABILIZATION CONTROLS, SUCH AS PLANTINGS AND BERMS, AND MAINTAIN THEM DURING AND AFTER COMPLETION OF THE CONSTRUCTION. PLACE SILT FENCES ACROSS THE ENTIRE LENGTH OF THE AREA OF SITE DISTURBANCE ALONG LOWEST CONTOUR AS PRACTICAL.

E. SCHEDULE OF CONSTRUCTION ACTIVITIES AND IMPLEMENTATION OF EROSION/SEDIMENT CONTROL:

1.OBTAIN DPNR APPROVAL TO PROCEED WITH REPAIR AND ADDITION 2. START CLEARING DESIGNATED AREAS FOR CONSTRUCTION OF STRUCTURES 3. IMPLEMENT SILT FENCES 4.START AND FINISH CONSTRUCTION OF ADDITIONAL STORAGE TANK.

F. THE MAINTENANCE OF EROSION AND SEDIMENT AND CONTROL MEASURES:

SILT FENCES WILL BE CHECKED AND MAINTAINED ON A REGULAR SCHEDULE, ANY LOOSE LINKS TO BE REPAIRED.

G. METHOD OF STORMWATER MANAGEMENT

WATER WILL BE DIVERTED AROUND THE DEVELOPMENT AND LOWER LEVEL CONSTRUCTION ON EITHER SIDE OF THE STRUCTURE VIA SWALES FORMED ON GRADE. AS THE NEW TOPOGRAPHY MEETS THE ORIGINAL STORM WATER DRAINAGE PATH, IT WILL PERCOLATE NATURALLY INTO THE SAND SUB BASE.

H. MAINTENANCE SCHEDULE OF STORMWATER FACILITIES:

THERE WILL BE NO STORMWATER FACILITIES BUILT ON THIS PROPERTY. ALL STORM WATER CONTROL SYSTEMS WILL BE NATURAL VEGETATED SWALES WHICH ARE TO BE KEPT FREE OF DEBRIS TO ALLOW FOR THE DRAINAGE ON SITE.

J. METHOD OF SEWAGE DISPOSAL:

THERE ARE EXISTING WASTEWATER TREATMENT PLANTS ON SITE.

EARTH CHANGE NOTES:

- PROTECTION SHALL BE TAKEN BY THE OWNER AND CONTRACTOR TO PROTECT ADJACENT PROPERTIES AND PUBLIC RIGHTS OF WAY. ALL CUT ON ROCK SHALL BE 1:1 SLOPE, CUT AND FILL SHALL BE 2:1 SLOPE
- ALL TOPS TO SOIL SHALL BE STOCK PILE FOR FUTURE USE.
- THERE SHALL BE NO UNNECESSARY DISTURBANCE OF THE SOIL. NO WORK SHALL BE PERFORMED DURING INCLEMENT WEATHER.
- LOW MAINTENANCE GROUND COVER SUCH AS BERMUDA GRASS, WEDELIA , GOAT FOOT, OR GROUND ORCHID SHALL BE PLANTED ON DISTURBED AREAS AND ON SLOPE TO CONTROL EROSION.
- ALL PLANTING SHALL TAKE PLACE AFTER FINAL GRADES ARE ATTAINED.
- ALL TREES NOT IN THE AREA OF CONSTRUCTION SHALL BE PROTECTED DURING THE ENTIRE CONSTRUCTION PERIOD.

GENERAL NOTES

- BY EXECUTING THE CONTRACT, THE CONTRACTOR REPRESENTS THAT THEY HAVE VISITED THE SITE, FAMILIARIZED THEMSELVES WITH THE LOCAL CONDITIONS, CODES AND LANDLORD REQUIREMENTS UNDER WHICH THE WORK IS TO BE PERFORMED, AND CORRELATED THEIR OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THIS SHALL BE DONE PRIOR TO THE BID.

- THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK. THE CONTRACT DOCUMENTS ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COVERED IN THE CONTRACT DOCUMENTS WILL NOT BE REQUIRED UNLESS IT IS CONSISTENT THEREWITH AND IS REASONABLY INFERABLE THEREFROM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS. WORDS AND ABBREVIATIONS WHICH HAVE WELL KNOWN TECHNICAL OR TRADE MEANINGS ARE USED IN THE CONTRACT DOCUMENTS IN ACCORDANCE WITH SUCH MEANINGS.

- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. MOREOVER, SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE.

- SHOULD EITHER THE DRAWINGS AND THE SPECIFICATIONS, OR ANY PARTICULAR SPECIFICATION, AND THE GENERAL CONDITIONS CONTRADICT EACH OTHER IN ANY POINT, OR REQUIRE CLARIFICATION, THE CONTRACTOR MUST CALL THE SAME TO THE ATTENTION OF THE ARCHITECT, AND HIS DECISION SHALL BE OBTAINED PRIOR TO THE SUBMISSION OF BIDS - OTHERWISE, THE ARCHITECT'S INTERPRETATION WILL GOVERN THE PERFORMANCE OF THE WORK AND NO ALLOWANCE SHALL BE MADE IN BEHALF OF THE CONTRACTOR FOR ERROR OR NEGLIGENCE ON THEIR PART IN THIS CONNECTION. THE CONTRACTOR SHALL BEAR ALL COSTS (INCLUDING OVERTIME, AIR FREIGHT, ETC.) DUE TO THEIR ERRORS AND/ OR OMISSIONS PRIOR TO BIDDING.

- SHOULD ANY ERROR OR INCONSISTENCY APPEAR IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR, BEFORE PROCEEDING WITH WORK, MUST CLEARLY BRING THE SAME TO THE ATTENTION OF THE ARCHITECT FOR PROPER ADJUSTMENT, AND IN NO CASE PROCEED WITH THE WORK IN UNCERTAINTY NOR WITH INSUFFICIENT DRAWINGS.

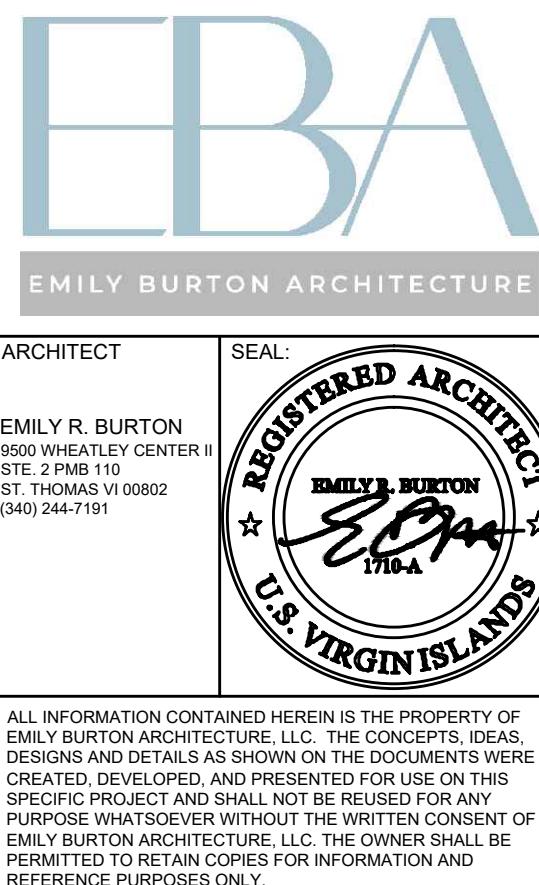
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT AND IN THE PROPOSED CONSTRUCTION BUILDING OR SITE OR SURROUNDINGS. NO CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSIONS WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT.

- CONTRACTOR SHALL FOLLOW SIZES IN SPECIFICATIONS OR FIGURES ON DRAWINGS IN PREFERENCE TO SCALE MEASUREMENTS AND FOLLOW DETAIL DRAWINGS IN PREFERENCE TO GENERAL DRAWINGS, AND FOLLOW ACTUAL FIELD CONDITIONS.

- WHERE IT IS OBVIOUS THAT A DRAWING ILLUSTRATES ONLY A PART OF A GIVEN WORK, OR OF A NUMBER OF ITEMS, THE REMAINDER SHALL BE DEEMED REPETITIOUS AND SO CONSTRUCTED.

- CONTRACTOR IS TO VERIFY THAT ALL EQUIPMENT (FIXTURES) ARE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS. THE CONTRACTOR IS TO REPORT IMMEDIATELY BY PHONE AND WITHIN 24 HOURS IN WRITING TO THE ARCHITECT, ANY AND ALL EQUIPMENT THAT IS DAMAGED, OMITTED, OR NOT IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

- THE CONTRACTOR IS TO ASSURE THAT THE PLACEMENT OF EQUIPMENT IS POSSIBLE BEFORE CONSTRUCTION OF ALL INTERIOR PARTITIONS ARE COMPLETED.



11/20/2025	CZM MODIFICATION
10/29/2023	CZM RESUBMISSION
08/09/2023	CZM SUBMISSION

PROJECT NUMBER: 23_01_2023

DRAWN BY: EH

REVIEWED BY: EH

PROJECT MANAGER: EH

OWNER: COWPET BAY WEST

8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI 00802

PROJECT: COWPET BAY WEST

SEAWATER INTAKE

8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH

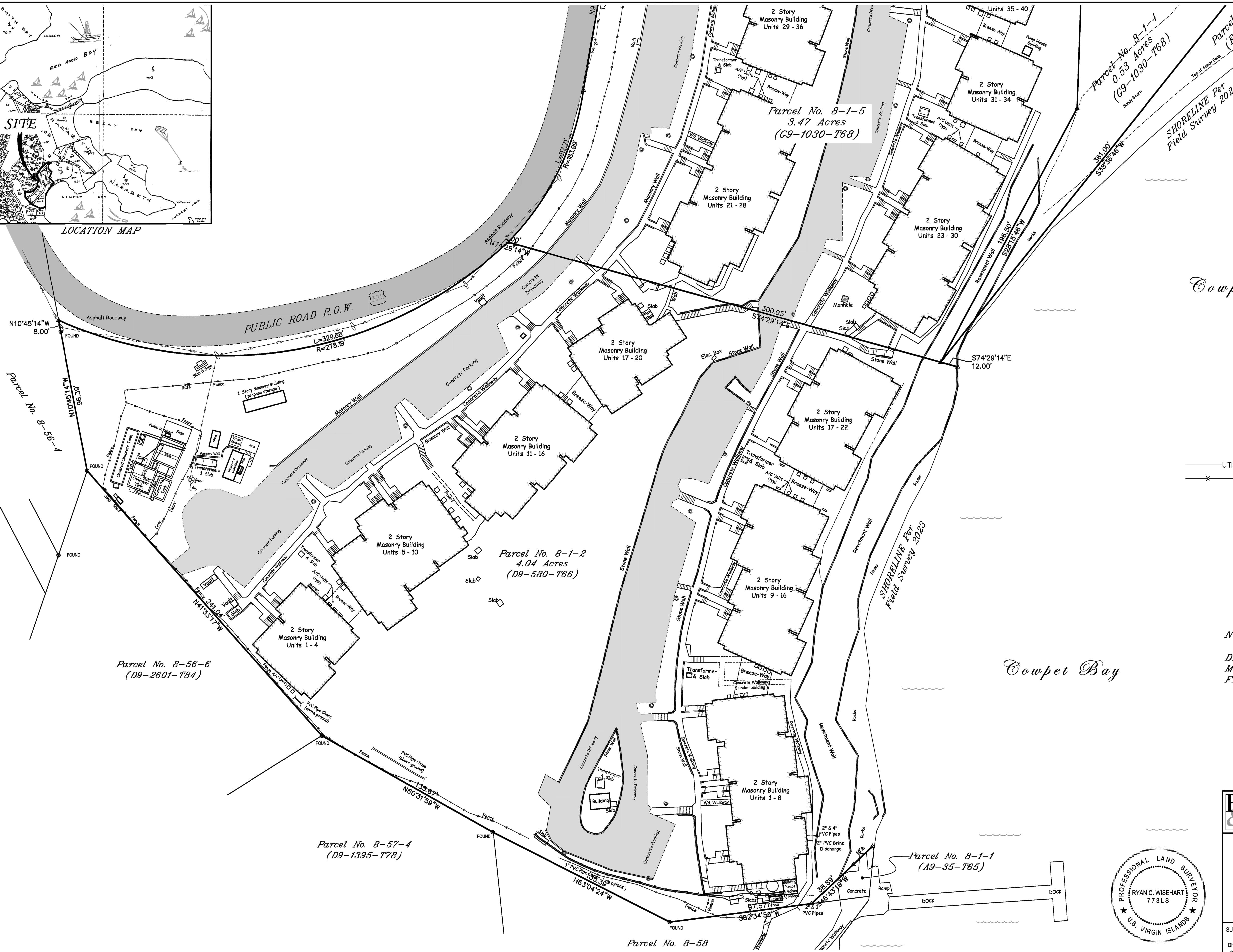
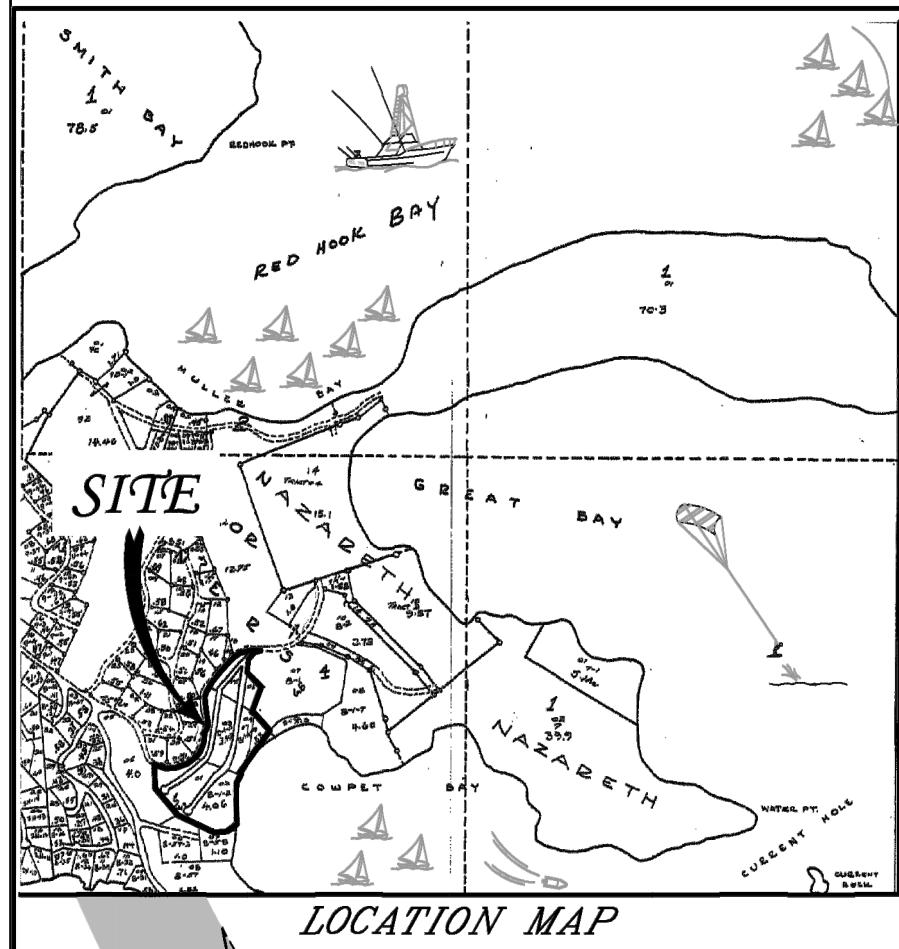
ST. THOMAS, VI

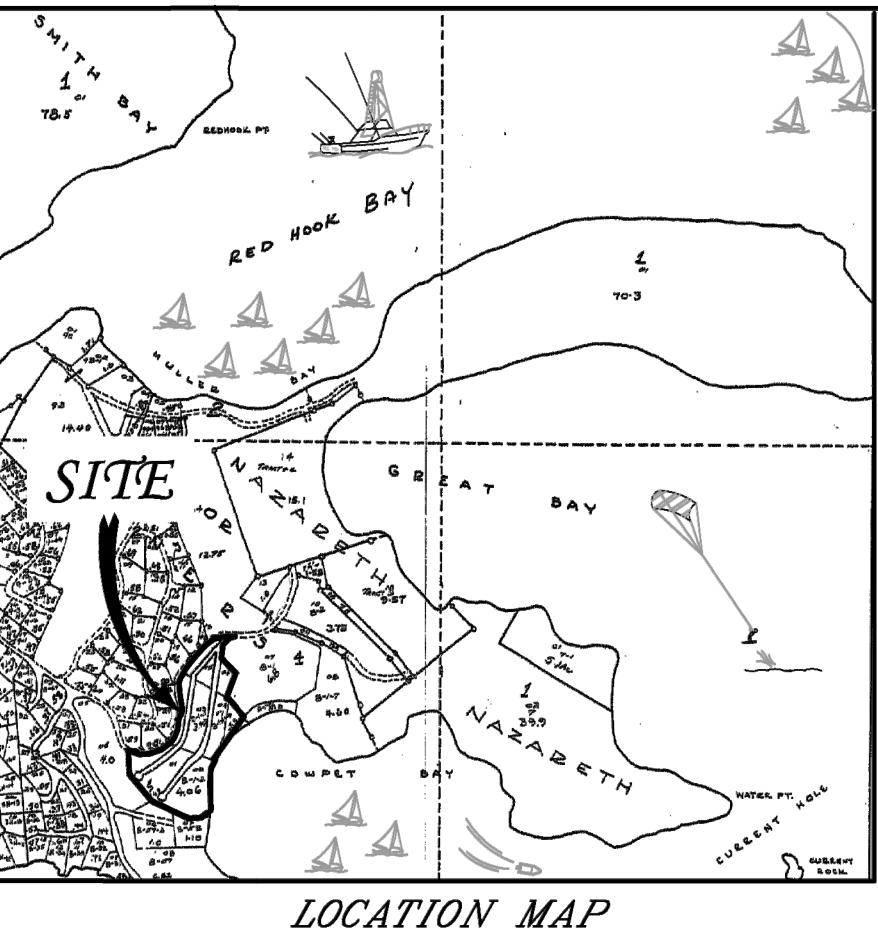
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SHEET NUMBER:

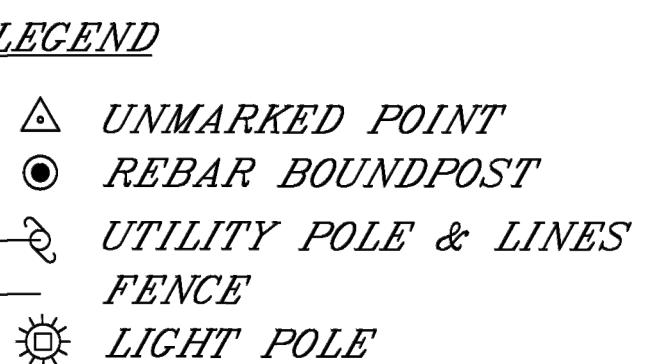
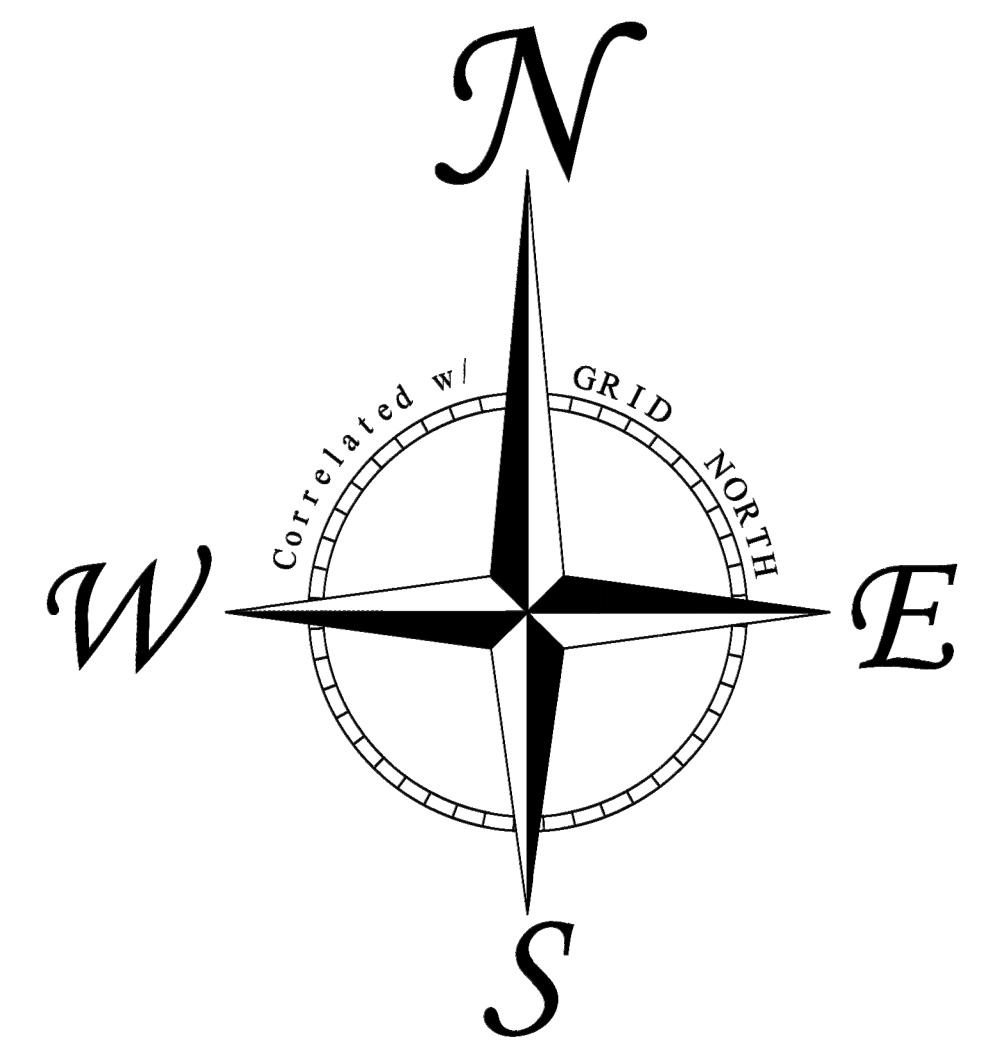
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LOCATION MAP

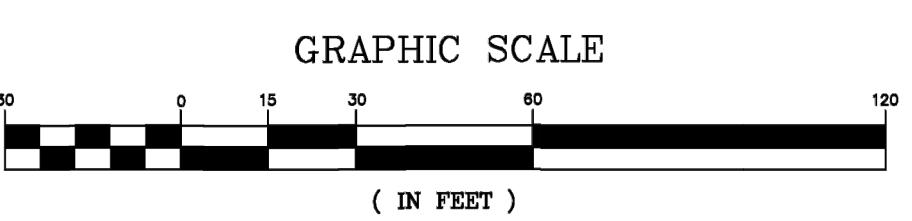


REFERENCE AS NOTED

ZONING
R-3

NOTE:

DATA IN BRACKETS { xxx } PER FILED
MAP, WHERE DIFFERENT FROM ACTUAL
FIELD MEASUREMENTS.



**Brian Moseley
& Associates, Inc.**
Land Surveyors & Consultants

4003 RAPHUNE HILL ROAD
SUITE 606
ST. THOMAS, VI 00802
PHONE (340) 774-5310
FAX (340) 776-4090

PROJECT: **COWPET BAY WEST**
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI 00802

PROJECT: **COWPET BAY WEST**
SEAWATER INTAKE

8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI

SHEET TITLE:

SURVEY

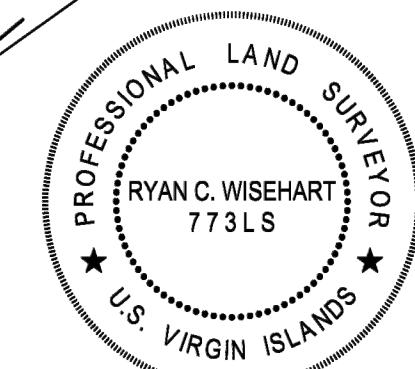
SHEET NUMBER:

C1.02

Existing Conditions Survey of
Parcels No. 8-1-2, 8-1-3, 8-1-4,
8-1-5 & 8-1-6

Estate Nazareth - No. 1 Red Hook Quarter
St. Thomas, U.S. Virgin Islands

SURVEY: *A. G. B.* DATE: *01 - 04 - 2023* DWG NO: **7136 - 1**
CALC: *R. C. W.*
DRAWN: *D. J. S.*
SCALE: *1" = 30'*
APPROVED: *Ryan C. Wisehart*
SHEET NO. **1 of 2**



SEAWATER INTAKE & R.O. PLANT SPECIFICATIONS:

INTAKE LINE:

SEAWATER INTAKE PIPING SHALL BE PVC, SCHEDULE 80, PRESSURE-RATED, SUITABLE FOR CONTINUOUS SEAWATER SERVICE. PROVIDE SOLVENT-CEMENTED JOINTS UNLESS OTHERWISE NOTED. ALL FITTINGS AND VALVES SHALL BE PVC OR CPVC, SCHEDULE 80, WITH EPDM OR VITON SEALS COMPATIBLE WITH SALT WATER. PROVIDE UV-RESISTANT COATING OR PAINT WHERE EXPOSED TO SUNLIGHT.

PIPE INSTALLATION:

INSTALL PIPING WITH CONTINUOUS SLOPE TOWARD THE INTAKE SCREEN. PROVIDE ADEQUATE PIPE SUPPORTS AND THRUST RESTRAINTS. ENSURE PIPE INTERIOR IS CLEAN AND FREE OF DEBRIS PRIOR TO CONNECTION TO THE RO SYSTEM.

INTAKE CAPACITY:

THE SEAWATER INTAKE SYSTEM SHALL BE DESIGNED TO DELIVER APPROXIMATELY 40 GALLONS PER MINUTE (GPM) TO SUPPORT AN OVERALL 1,000 GALLON PER DAY (GPD) REVERSE OSMOSIS PLANT CAPACITY. SYSTEM COMPONENTS SHALL BE SIZED ACCORDINGLY FOR CONTINUOUS OPERATION AND PEAK DEMAND CONDITIONS.

INTAKE SCREEN:

PROVIDE A CORROSION-RESISTANT STAINLESS STEEL OR HDPE INTAKE SCREEN WITH REMOVABLE END CAP FOR CLEANING AND MAINTENANCE. SCREEN OPENINGS SHALL BE SIZED TO PREVENT ENTRY OF MARINE LIFE AND DEBRIS.

BOOSTER PUMP:

PROVIDE A SEAWATER SERVICE BOOSTER PUMP CAPABLE OF LIFTING THE INTAKE FLOW FROM THE SHORELINE UPHILL TO THE REVERSE OSMOSIS PLANT. PUMP SHALL BE MARINE-GRADE, NON-METALLIC OR BRONZE-FITTED, SELF-PRIMING, AND SUITABLE FOR CONTINUOUS DUTY IN SALT WATER APPLICATIONS. ALL WETTED COMPONENTS SHALL BE CORROSION-RESISTANT.

TYPE: SELF-PRIMING CENTRIFUGAL SEAWATER BOOSTER PUMP

CAPACITY: 40 GPM (MINIMUM)

SYSTEM FLOW RATE: 1,000 GPD

MATERIALS: MARINE-GRADE HARDWARE

MOTOR: TEFC (TOTALLY ENCLOSED FAN-COOLED), RATED FOR OUTDOORS

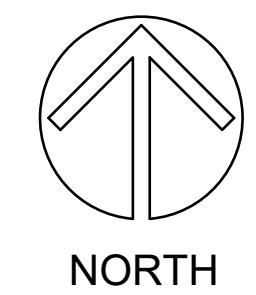
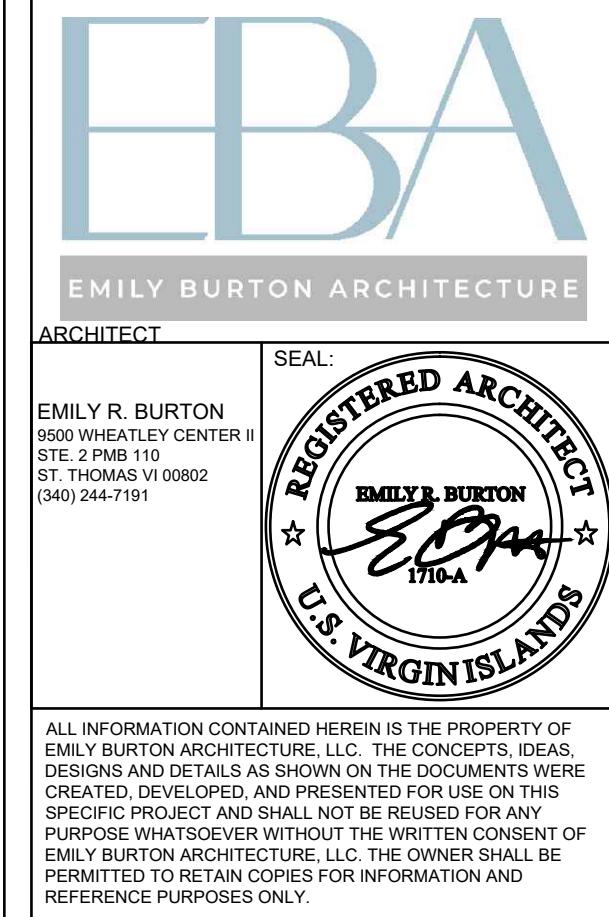
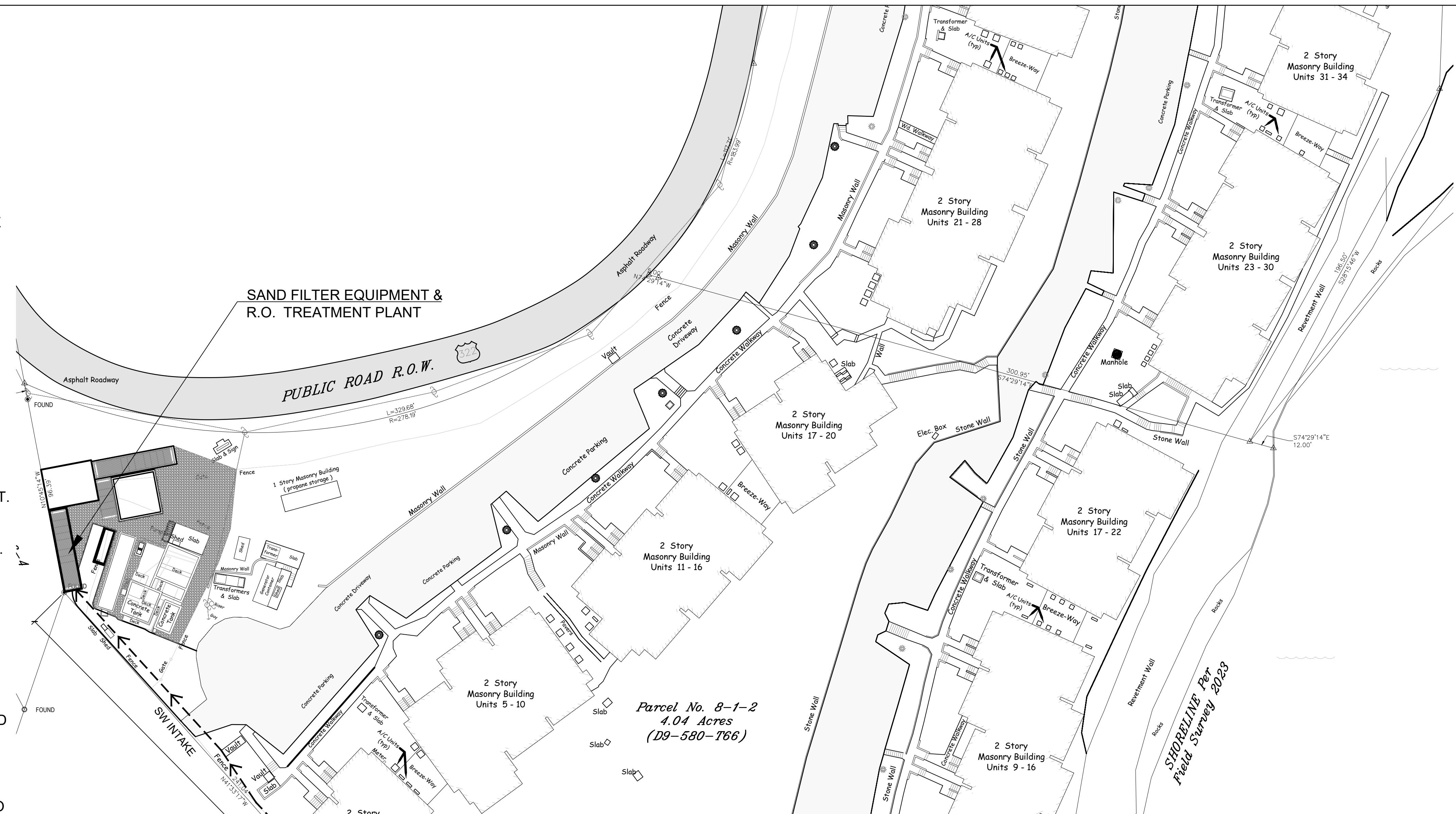
ACCESSORIES: SUCTION STRAINER, ISOLATION VALVES, PRESSURE GAUGE, AND CHECK VALVE

CONDUIT INSTALLATION:

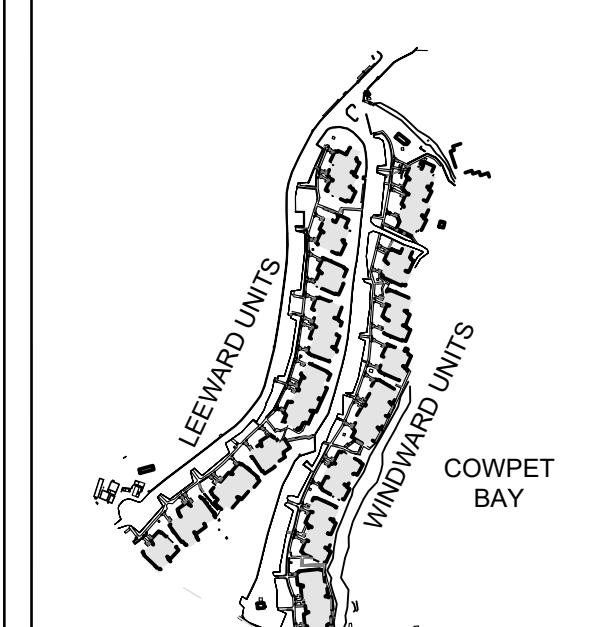
ELECTRICAL CONDUITS FOR PUMP POWER AND CONTROL SHALL BE INSTALLED ABOVE GRADE AND SUPPORTED ON EXISTING CONCRETE SITE PYLONS. CONTRACTOR SHALL INSTALL NEW CONCRETE PYLONS AS REQUIRED TO MAINTAIN CONTINUOUS SUPPORT FOR ALL CONDUITS AND PIPING FROM THE SHORELINE TO THE REVERSE OSMOSIS PLANT. ALL CONDUIT RUNS SHALL BE NEATLY ALIGNED, PROTECTED FROM MECHANICAL DAMAGE, AND SECURED TO PREVENT MOVEMENT OR VIBRATION.

TESTING AND COMMISSIONING:

PRESSURE TEST ALL PIPING PRIOR TO CONNECTION TO THE R.O. EQUIPMENT. VERIFY BOOSTER PUMP PERFORMANCE, FLOW RATE, AND HEAD MATCH DESIGN REQUIREMENTS. DOCUMENT TEST RESULTS PRIOR TO FINAL CONNECTION AND START-UP.



NORTH

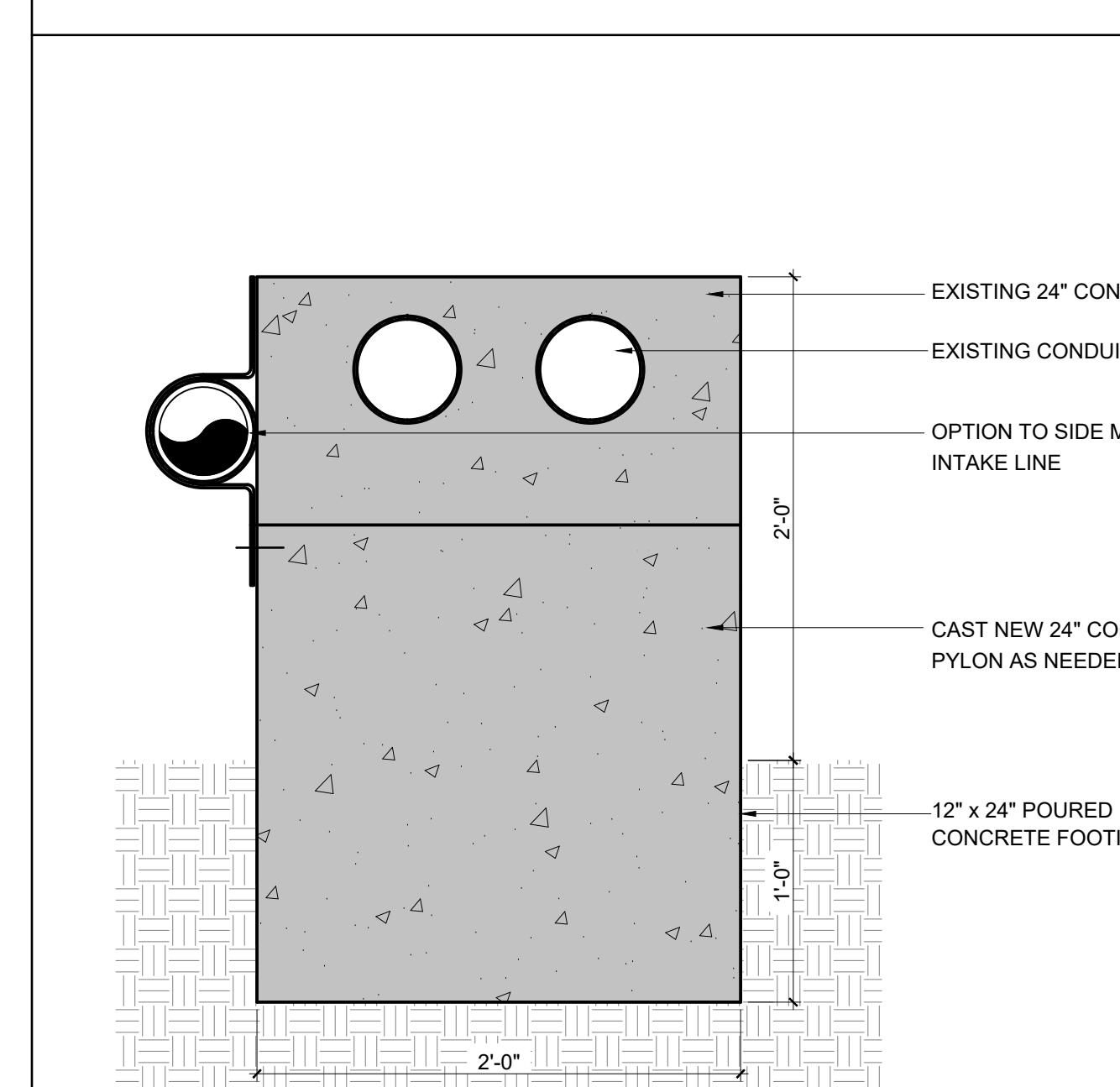


11/11/2025	CZM MODIFICATION
10/29/2023	CZM SUBMISSION
08/09/2023	CZM SUBMISSION

PROJECT NUMBER:	23_01_2023
DRAWN BY:	EH
REVIEWED BY:	EH
PROJECT MANAGER:	EH
OWNER:	COWPET BAY WEST 8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH ST. THOMAS, VI 00802

PROJECT :	COWPET BAY WEST SEAWATER INTAKE
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH ST. THOMAS, VI	

SHEET TITLE:	SEAWATER INTAKE SITE PLAN
SHEET NUMBER:	

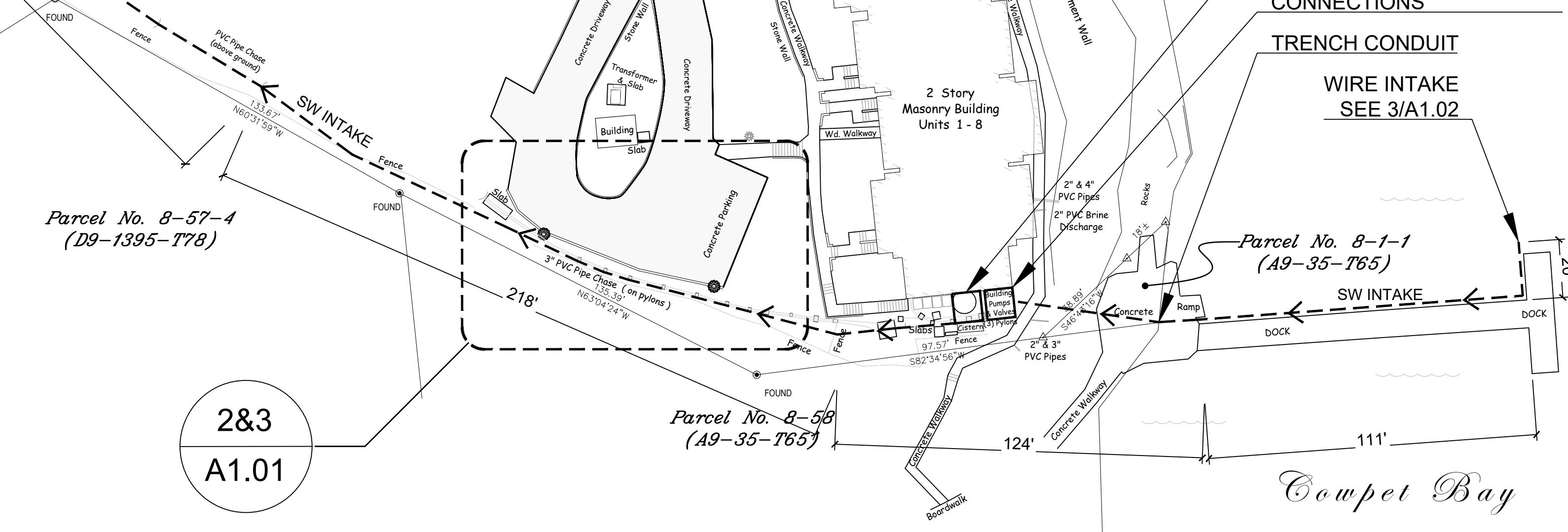


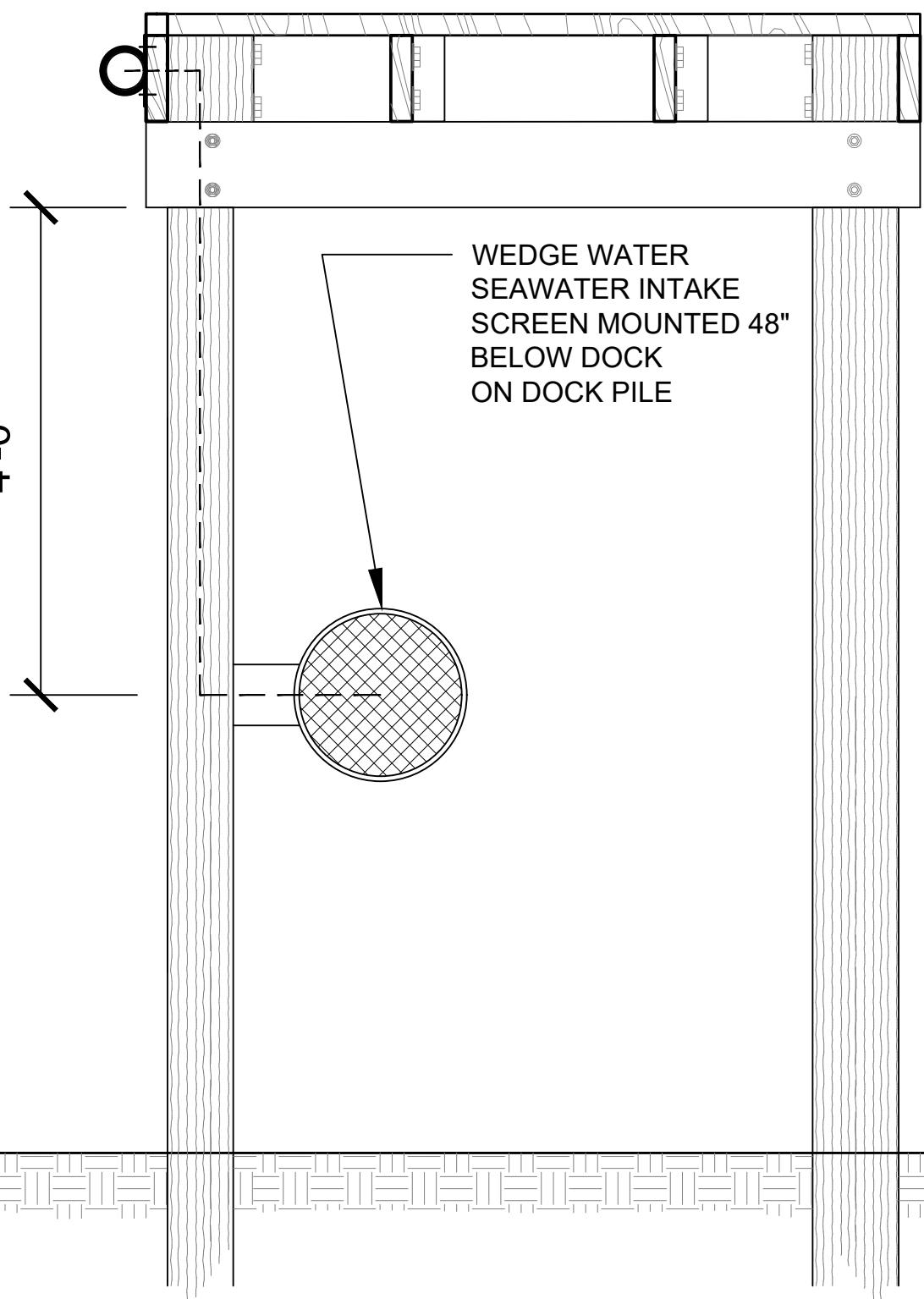
3

EXISTING PYLON WITH CONDUIT

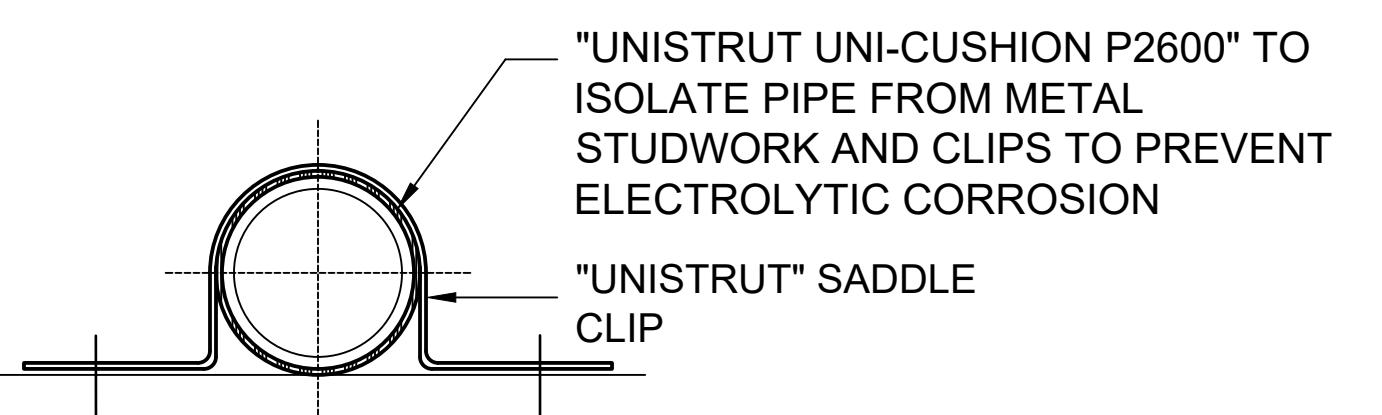
2

2&3
A1.01



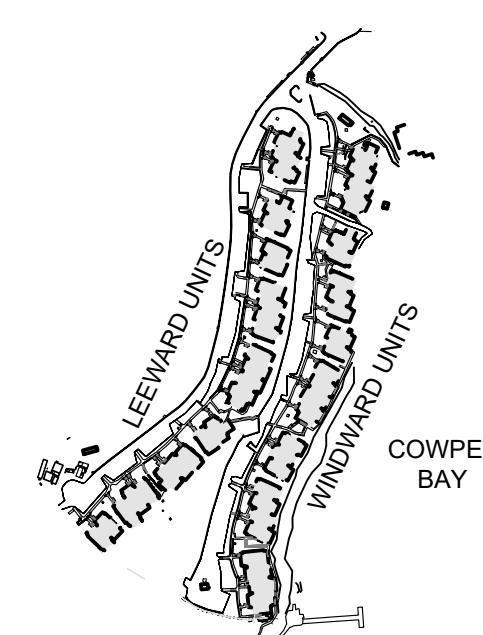
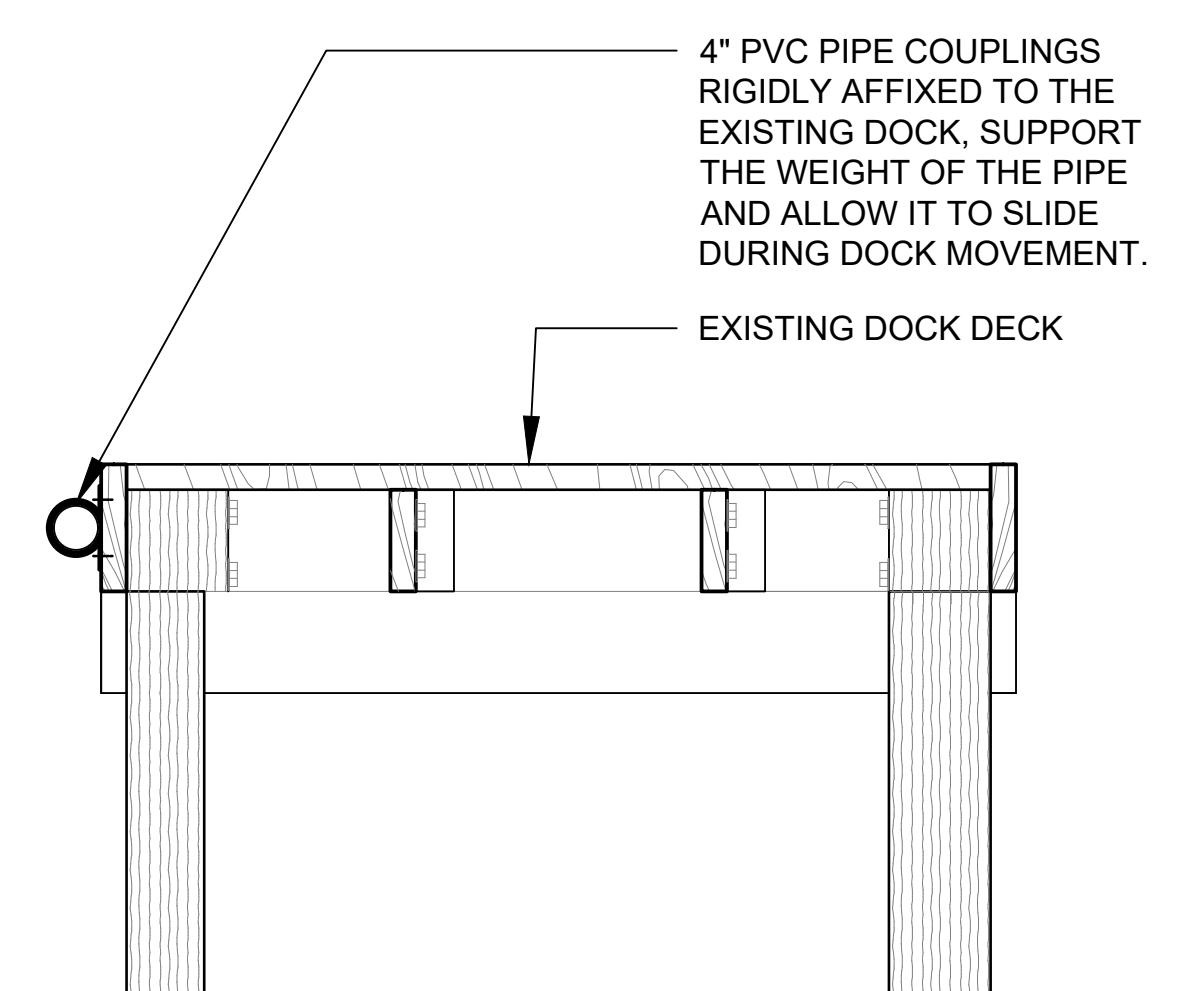


WEDGE WIRE INTAKE AT DOCK **3**
SCALE: 3/4" = 1'-0"



TYPICAL SADDLE CLIP MOUNTING

DOCK DETAIL **2**
SCALE: 3/4" = 1'-0"



11/11/2025 CZM MODIFICATION
10/29/2023 CZM RESUBMISSION
08/09/2023 CZM SUBMISSION
REV. DATE DESCRIPTION

PROJECT NUMBER: 23_01_2023
DRAWN BY: EH
REVIEWED BY: EH
PROJECT MANAGER: EH
OWNER: EH

COWPET BAY WEST
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI 00802
PROJECT: **COWPET BAY WEST SEAWATER INTAKE**
8-1-2, 8-1-5, 8-1-6 ESTATE NAZARETH
ST. THOMAS, VI

SHEET TITLE: **SEAWATER INTAKE DETAILS**

SHEET NUMBER: A1.02

DOCK DETAIL **1**
SCALE: 3/4" = 1'-0"



PROGRESS IMAGE OF CURRENT SITE DEVELOPMENT

SCALE: NTS

2

