1/8/2026 6:12:58 PM

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT

300 CHOCOLATE HOLE
ST. JOHN, USVI

Architect's Project Number: 24032.05

ARCHITECT
Coleman Partners Architects
3377 North Blvd
Baton Rouge, La 70806

MEP + STRUCTURAL + CIVIL ENGINEER
Salas O'Brien LLC
5215 Essen Lane, Suite 100
Baton Rouge, La 70809

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609

VICINITY MAP



PROJECT INFORMATION

CODES USED:

INTERNATIONAL EXISTING BUILDING CODE (IEBC) - ALTERATION LEVEL 1
INTERNATIONAL BUILDING CODE (IBC) - 2021 EDITION
LIFE SAFETY CODE, NFPA 101 - 2021 EDITION
ICC / ANSI A117.1 - STANDARD FOR ACCESSIBLE & USEABLE BUILDINGS AND FACILITIES - 2017 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE (IECC) - 2018 EDITION

BUILDING INFO (RO BUILDING)

OCCUPANCY CLASSIFICATION:
IBC: FACTORY/INDUSTRIAL
NFPA: INDUSTRIAL

IBC TYPE OF CONSTRUCTION: IIB
NFPA TYPE OF CONSTRUCTION: TYPE I (000)

NO. OF STORIES: 1
BUILDING HEIGHT: 14'-1"
BUILDING AREA: 3,535 SF

SCOPE OF WORK

NEW CONSTRUCTION AS DEFINED BY THE INTERNATIONAL BUILDING CODE, CHAPTER 3, CONSISTING OF THE FOLLOWING GENERAL SCOPE OF WORK REQUIRED TO CONSTRUCT THE INDICATED SWRO PLANT, CISTERN AND PUMP INTAKE BUILDING.

GENERAL

- CONTRACTOR SHALL PROVIDE LABOR AND MATERIAL FOR SELECTIVE DEMOLITION: DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, TREES AND LIGHT POLES INDICATED ON THESE PLANS. PREPARE FOR NEW WORK ON THESE PLANS.
- CONTRACTOR SHALL PROVIDE LABOR AND MATERIAL FOR THE CONSTRUCTION OF THE RO PLANT, CISTERN AND PUMP INTAKE BUILDING.
- THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIAL TO PLANT NEW TREES AND INSTALL NEW LIGHTING INDICATED ON THESE PLANS.

GENERAL NOTE: PRICING SET DRAWINGS PREPARED FROM LIMITED EXISTING DOCUMENTATION PROVIDED BY OWNERSHIP. ALL EXISTING CONDITIONS AND DIMENSIONS NOTED SHALL BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.

ADDITIVE ALTERNATES

ADD ALTERNATE #1:

BASE BID: CONSTRUCTION IS TO BE COMPLETED AS IS IF NO ADDITIONAL WORK TO THE EXISTING PARKING AREA.
ADD. ALTERNATE 1:
EXISTING 7 PARKING SPACES TO BE STRIPED WEST OF SITE.

ADD ALTERNATE #2:

BASE BID: CONSTRUCTION IS TO BE COMPLETED AS IS IF NO ADDITIONAL WORK TO THE EXISTING PARKING AREA & LANDSCAPE AREA.
ADD. ALTERNATE 2:
NEW LANDSCAPE AREA NEAR GUEST PARKING & 6 NEW NATIVE TREES TO BE PLANTED IN NEW LANDSCAPE BUFFER

INDEX OF DRAWINGS - NEW REVERSE OSMOSIS PLANT

SHEET #	SHEET NAME	Sheet Issue Date	Current Revision Date
GENERAL			
G0.1	COVER	11/14/2025	01/09/26
SURVEY			
SV1	SITE SURVEY	06/13/2025	
SV2	SITE SURVEY	06/13/2025	
SV3	SITE SURVEY	06/13/2025	
DEMOLITION			
D1.0	SITE PLAN DEMOLITION	11/14/2025	
CIVIL			
C1-02	GRADING PLAN -SWRO PLANT PARKING LOT	11/14/2025	
C1-03	SECTIONS AND DETAILS - SWRO PLANT PARKING LOT	11/14/2025	
ARCHITECTURAL			
A1.00	ARCHITECTURAL SITE PLAN - ALL PROJECTS	11/14/2025	
A1.01	ARCHITECTURAL SITE PLAN - SWRO PLANT	11/14/2025	
A1.02	SITE AND FLOOR PLAN - INTAKE PUMP BUILDING	11/14/2025	
A2.00	FLOOR PLANS - SWRO PLANT & CISTERN	11/14/2025	01/09/26
A2.10	INT ELEVATIONS / DOOR & WALL TYPES	11/14/2025	
A6.00	EXTERIOR ELEVATIONS	11/14/2025	
A7.00	BUILDING SECTIONS & DETAILS	11/14/2025	
STRUCTURAL			
S1.10	STRUCTURAL INFORMATION	11/14/2025	
S1.11	STRUCTURAL INFORMATION	11/14/2025	
S2.10	FOUNDATION PLAN OVERALL	11/14/2025	
S2.11	FOUNDATION PLANS	11/14/2025	
S2.12	SLAB & PILING PLAN	11/14/2025	
S2.20	ROOF FRAMING PLAN OVERALL	11/14/2025	
S2.21	ROOF FRAMING PLANS	11/14/2025	
S2.50	BUIDLING SECTIONS	11/14/2025	
S2.51	BUILDING SECTIONS	11/14/2025	
S2.60	BUILDING ELEVATIONS	11/14/2025	
S3.10	TYPICAL CONCRETE DETAILS	11/14/2025	
S3.11	TYPICAL CONCRETE DETAILS	11/14/2025	
S4.10	TYPICAL CMU DETAILS	11/14/2025	
S5.10	TYPICAL STEEL DETAILS	11/14/2025	
MECHANICAL			
M1.00	MECHANICAL FLOOR PLANS - SWRO PLANT & CISTERN	11/14/2025	
M2.00	MECHANICAL DETAILS - SWRO PLANT & CISTERN	11/14/2025	
PLUMBING			
P1.01	PLUMBING SITE PLAN - SWRO PLANT	11/14/2025	
P2.00	PLUMBING FLOOR PLANS - SWRO PLANT & CISTERN	11/14/2025	01/09/26
P2.01	PLUMBING RISERS	11/14/2025	12/15/25
P3.00	PLUMBING SCHEDULE AND SPEC - SWRO PLANT	11/14/2025	12/15/25
ELECTRICAL			
E1.01	ELECTRICAL SITE PLAN - SWRO PLANT	11/14/2025	01/09/26
E1.02	ELECTRICAL SITE PLAN - INTAKE PUMP BUILDING	11/14/2025	
E2.00	ELECTRICAL FLOOR PALNS - SWRO PLANT & CISTERN	11/14/2025	
E2.01	ELECTRICAL LIGHTING PLANS - SWRO PLANT & CISTERN	11/14/2025	
E3.00	ELECTRICAL SCHEDULES & DETAILS	11/14/2025	
E4.00	ELECTRICAL SPECIFICATIONS	11/14/2025	
E5.00	FIRE ALARM SPECIFICATIONS	11/14/2025	
FIRE PROTECTION			
FP1.00	FIRE PROTECTION SITE PLAN - SWRO PLANT & CISTERN	11/14/2025	
FP1.01	FIRE PROTECTION FLOOR PLANS - SWRO PLANT & CISTERN	11/14/2025	
FP2.01	FIRE PROTECTION DETAILS SPECIFICATIONS & SCHEDULES	11/14/2025	
FP3.01	FIRE PROTECTION SPECIFICATIONS	11/14/2025	

INDEX OF DRAWINGS - NEW REVERSE OSMOSIS PLANT

SHEET #	SHEET NAME	Sheet Issue Date	Current Revision Date
SWRO CIVIL			
C-0000	SHEET LIST	11/14/2025	12/15/25
C-001A	WESTIN INTAKE APROXIMATE PIPE LINE LOCATION	11/14/2025	12/15/25
C-001B	WESTIN INTAKE PIPE LINE DEMO	11/14/2025	12/15/25
C-002	OVERALL LINE LAYOUT	11/14/2025	12/15/25
C-003	OVERALL LINE PROFILE	11/14/2025	12/15/25
C-006	LAYOUT PLAN INTAKE WATER FACILITY	11/14/2025	12/15/25
C-007	CUT SECTIONS INTAKE WATER FACILITY	11/14/2025	12/15/25
C-008	INTAKE WATER PIPE PLAN VIEW - A-A	11/14/2025	12/15/25
C-009	INTAKE WATER PIPE PLAN VIEW - B-B	11/14/2025	12/15/25
C-010	INTAKE WATER PIPE PLAN VIEW - C-C	11/14/2025	12/15/25
C-011	INTAKE WATER PIPE PLAN VIEW - D-D	11/14/2025	12/15/25
C-012	INTAKE WATER PIPE PROFILE - A-A	11/14/2025	12/15/25
C-013	INTAKE WATER PIPE PROFILE - B-B	11/14/2025	12/15/25
C-014	INTAKE WATER PIPE PROFILE - C-C	11/14/2025	12/15/25
C-015	INTAKE WATER PIPE PROFILE - D-D	11/14/2025	12/15/25
C-016	INTAKE PIPE SURF AND BLOCK DETAILS	11/14/2025	12/15/25
SWRO PROCESS			
P-0000	SHEET LIST	11/14/2025	
P-100	RAW WATER SUPPLY	11/14/2025	
P-200	MEDIA FILTRATION	11/14/2025	
P-300	CARTRIDGE FILTER/CHEMICAL SYSTEM	11/14/2025	
P-400	REVERSE OSMOSIS	11/14/2025	
P-500	POST TREATMENT	11/14/2025	
P-600	CLEANING	11/14/2025	
P-700	STORAGE/DISTRIBUTION	11/14/2025	
P-1000	CONCENTRATE AND DRAIN HEADER SYSTEM	11/14/2025	
PFD-100	PROCESS FLOW DIAGRAM	11/14/2025	
SWRO MECHANICAL			
M-0000	SHEET LIST	11/14/2025	01/09/26
M-001	MECHANICAL LAYOUT	11/14/2025	01/09/26
M-001A	FLOOR DRAIN LAYOUT	11/14/2025	01/09/26
M-002	INTAKE BUILDING LAYOUT	11/14/2025	01/09/26
M-003	MAIN BUILDING TRENCH PIPING	11/14/2025	01/09/26
M-003A	MAIN TRENCH PIPING SECTIONS	11/14/2025	01/09/26
M-003B	MAIN TRENCH PIPING SECTIONS	11/14/2025	01/09/26
M-004	RO A TRENCH PIPE	11/14/2025	01/09/26
M-004 A	RO TRENCH MC & RW PENETRATIONS	11/14/2025	01/09/26
M-005	RO B TRENCH PIPE	11/14/2025	01/09/26
M-006	RO SYSTEMS	11/14/2025	01/09/26
M-006A	RO SYSTEMS ISO	11/14/2025	01/09/26
M-006B	RO SYSTEMS SECTIONS	11/14/2025	01/09/26
M-006C	RO SYSTEMS SECTIONS	11/14/2025	01/09/26
M-007	CALCIUM CARBONATE REACTORS	11/14/2025	01/09/26
M-007A	CALCIUM CARBONATE REACTORS ISO	11/14/2025	01/09/26
M-007B	CALCIUM CARBONATE REACTORS SECTIONS	11/14/2025	01/09/26
M-007C	CALCIUM CARBONATE REACTORS SECTIONS	11/14/2025	01/09/26
M-008	CIP SYSTEM	11/14/2025	01/09/26
M-008A	CIP SYSTEM CUT SECTIONS	11/14/2025	01/09/26
M-009	TRANSFER PUMP SYSTEM - PLAN LAYOUT	11/14/2025	01/09/26
M-009A	TRANSFER PUMP SYSTEM CUT SECTIONS	11/14/2025	01/09/26
M-009B	TRANSFER PUMP SYSTEM CUT SECTIONS	11/14/2025	01/09/26
M-009C	TRANSFER PUMP SYSTEM - ISO VIEW	11/14/2025	01/09/26
M-010	MEDIA FILTERS SYSTEM	11/14/2025	01/09/26
M-010A	MEDIA FILTERS SYSTEM CUT SECTIONS	11/14/2025	01/09/26
M-010B	MEDIA FILTERS SYSTEM CUT SECTIONS	11/14/2025	01/09/26
M-010C	MEDIA FILTERS SYSTEM CUT SECTIONS	11/14/2025	01/09/26
M-010D	MEDIA FILTERS SYSTEM CUT SECTIONS	11/14/2025	01/09/26
M-011	INTAKE BUILDING ISO	11/14/2025	01/09/26
M-011A	INTAKE BUILDING SECTIONS	11/14/2025	01/09/26
SWRO ELECTRICAL			
E-0000	SHEET LIST	11/14/2025	
E-001A	RO SYSTEM ONE LINE	11/14/2025	
E-001B	INTAKE BUILDING ONE LINE	11/14/2025	
E-002	3 PHASE POWER DIAGRAM - MAIN CONTROL PANEL (0-99)	11/14/2025	
E-003	POWER DIAGRAM - MAIN CONTROL PANEL (0-99)	11/14/2025	
E-004	CONTROL SCHEMATIC - MAIN CONTROL PANEL (0-99)	11/14/2025	
E-400	TRAIN X CONTROL PANEL SCHEMATIC (400-499)	11/14/2025	
E-500	PRE/POST TREATMENT CONTROL PANEL SCHEMATIC (500-599)	11/14/2025	
E-501	PRE/POST TREAT CHEM PUMP CONTROL SCHEMATIC (500-599)	11/14/2025	
E-601	RECEPTACLES LOCATION	11/14/2025	
E-602	ELECTRICAL CABLE PLAN VIEW	11/14/2025	
E-602A	ELECTRICAL CABLE CUT SECTIONS	11/14/2025	
E-700	RO SKIDS AND EQUIPMENT ARCHITECT DIAGRAM	11/14/2025	

1	ASI-006.1-WSJ	12/15/25
2	ASI-006.2-WSJ	01/09/26

Revisions / Submission

The drawings, specifications and other documents prepared by the Architect for this project are instruments of the Architect's service for use solely with respect to this project and, unless otherwise provided, the architect shall be deemed the author of these documents and shall retain all common law, statutory and other reserved rights, including reproducible copies, of the Architect's drawings, specifications and other documents for information and reference in connection with the Owner's use and occupancy of the project. The Architect's drawings, specifications or other documents shall not be used by the Owner or others on other projects, for additions to this project or for completion of this project by others, unless the Architect is adjudged to be in default under this agreement, except by agreement in writing and with appropriate compensation to the Architect.

REGISTERED ARCHITECT
ROBERT M. COLEMAN III
0-359-1B
U.S. VIRGIN ISLANDS

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

Project Number: 24032.05
Date: NOVEMBER 14, 2025
Project Architect: JMH

COVER

G0.1

100% CONSTRUCTION DOCUMENTS
NOVEMBER 14, 2025

REVISED JANUARY 09, 2025 WITH ASI-006.2-WSJ 2 1

NOTE:
THE INDEX OF DRAWINGS FOUND ON THIS SHEET IS BEING PROVIDED BY THE ARCHITECT IN AN EFFORT TO ASSIST THE CONTRACTOR'S UNDERSTANDING OF THE SHEET REVISIONS THAT HAVE BEEN ISSUED UP TO THE ISSUANCE OF ASI-006.2-WSJ DATED 01/09/2025. THE ARCHITECT IS NOT RESPONSIBLE FOR INCONSISTENCES IN THE PROVIDED SCHEDULE WHICH THE CONTRACTOR MAY IDENTIFY AFTER ITS ISSUANCE. THE RESPONSIBILITY TO PRODUCE A CONFORMED SET FOR THE CONTRACTORS OWN USE IS THE RESPONSIBILITY OF THE CONTRACTOR USING THE PROVIDED BID DOCUMENTS, ADDENDA, AND SUPPLEMENTAL INSTRUCTIONS THAT HAVE BEEN FORMALLY ISSUED. MAINTAINING AS-BUILTS DRAWINGS IS THE RESPONSIBILITY OF THE CONTRACTOR.

Autodesk Docs://24032_MVW Westin St John CAPEX Projects_r24/24032_Westin St John_CAPEX Projects_r24.rvt

Pcl. No. 260
(D9-3037-T85)

Pcl. No. 275
(D9-3037-T85)

Palm Plaza
Shopping Center
Building

R.O.W.
(D9-485-T58)

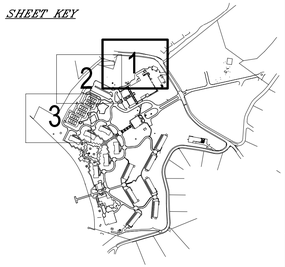
Remainder of
Parcel No. 300A
(Refer To A9-315-T85)

N
W
E
S

Conversion: A9 = 6.93' - 7.00'

Estimated center of gut
Natural Gut
Top of Bank
Bottom Bank
Masonry Wall
Wall Step
Light Pole
Bollard
Inlet
Gravel Parking
Concrete Parking
Concrete Drive
Concrete Maintenance Area
Concrete Walkway
Stamped Concrete
Stamped Concrete Walkways
Planter
Grass
Concrete
Building
Covered Deck
Covered Area
Covered
Storage Trailer
Container
Gen.
Pad
Ramp
Deli
Fitness Center
Executive Offices
Conference Center
Retail Shops Building
Loading Dock
Control Box
Pump
Bollards (typ.)
Stone Planter Wall
Tennis Courts
Gate
Handrail &
Culvert Guard
Headwall &
Culvert Outfall
Culvert Inlet
Top of 42"cmp Elev.=10.00
Invert Elev.=6.00
Curb Inlet
Top of Grade Elev.=14.18
Invert Elev.=11.98
S.W. 12"cmp (no invert)
FINISH FLOOR ELEVATION
14.00
F.F. Elev.
14.85 Ft.
F.F. Elev.
15.23 Ft.
Bldg.
Ramp
Concrete
Pool
A/C
Meters
Gen.
Pad
Control Box
Inlet
Concrete Slab
Wall Step
Bollard (typ.)
16.02
TOP.WALL
19.51
TOP.WALL
15.04
TOP.WALL
15.02
TOP.WALL
14.03
TOP.WALL
13.17
TOP.WALL
13.98
TOP.WALL
13.38
TOP.WALL
13.11
TOP.WALL
19.52
TOP.WALL
Top of Grade Elev.=8.63
S.W. Invert Elev.=7.09
Top of Grade Elev.=8.27
N.W. Invert Elev.=4.77
S.E. Invert Elev.=4.82
N.E. Invert Elev.=6.12
Top of Grade Elev.=8.16
Structure Invert Elev.=6.21
Top of Grade Elev.=8.21
Structure Invert Elev.=6.26
Top of Grade Elev.=8.81
Invert Elev.=5.68
Top of Grade Elev.=11.27
Structure Invert Elev.=7.67
S.E. 12"cmp Invert Elev.=7.82
Top of Grade Elev.=8.41
N.W. 12"cmp Invert Elev.=5.71
6" PVC Pipe
8"PVC Pipe
12"cmp
18"cmp
28"cmp
42"cmp
Trees

SHEET KEY



20 0 10 20
(IN FEET)
1 inch = 20 ft.

DATUM

VERTICAL DATUM BASED UPON
MEAN SEA LEVEL OBSERVATION.

LEGEND

- LIGHT POLE
- BOLLARD
- SIGNAGE
- FENCE
- SPOT ELEVATION
- WATER VALVE
- FIRE HYDRANT
- MANHOLE (unknown)
- MANHOLE (communications)
- MANHOLE (sanitary)
- MANHOLE (storm)
- INLET (storm)
- UTILITY POLE & LINES
- SPOT ELEVATION

REVISED :
6 - 12 - 2025: Add wall and gut detail

PROFESSIONAL LAND SURVEYOR
RYAN C. WISEHART
773LS
VIRGIN ISLANDS

Brian Moseley
& Associates, Inc.
Land Surveyors & Consultants
4003 RAPHUNE HILL ROAD SUITE 606
ST. THOMAS, U.S. VIRGIN ISLANDS 00802
PHONE (340) 774-5310 FAX (340) 776-4090
www.visurveyors.com

PARTIAL TOPOGRAPHIC SURVEY OF WESTERN AREA

The Westin Resort

Parcel No. 300 A
Estate Chocolate Hole
No. 11 Cruz Bay Quarter
St. John, U.S. Virgin Islands

SURVEY: R.C.W. / W.J.	DRAWN: D.J.S. / R.C.W.
CALC: R.C.W.	SCALE: 1" = 20'
DATE: 06 - 03 - 2025	DWG No.: 3530-AB-7
APPROVED: Ryan C. Wisehart	SHEET NO. 1 of 3

N
W E
S

Parcel No. 6C
(D9-7090-T002)

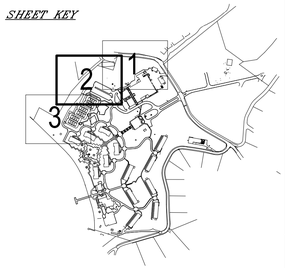
Remainder of
Parcel No. 300A
(Refer To A9-315-T85)

FOUND
FOUND 1.8' S.E.

F.F. Elev. 8.41 Ft.
F.F. Elev. 8.86 Ft.
F.F. Elev. 6.32 Ft.
F.F. Elev. 8.13 Ft.

Estimated center of gut
Natural Gut
Top of Bank
Masonry Wall
Step
Light Pole
13.38 TOP.WALL
13.11 TOP.WALL
13.17 TOP.WALL
8" PVC Pipe
Headwall & Culvert Outlet
Covered Deck
Container
Gravel Parking
Planter
Control Box
Concrete Drive
Gravel
Stamped Concrete
Stamped Concrete Walkways
Gate
Slab
Slab Wall
Covered Concrete Work Area
Maintenance Building
Concrete Maintenance Area
Elevated Slabs
Covered Area
Tennis Courts
Pickleball Courts (not scaled, see survey)
Playground
Marsh Area
Stone Planter Wall
Storage Trailer
Tank
Flitness Center
Grass
Parking
Thick Vegetation
Catch Basin
Top of Grate Elev.=8.27
N.W. Invert Elev.=4.77
S.E. Invert Elev.=4.82
N.E. Invert Elev.=6.12
Catch Basin
Top of Grate Elev.=8.63
S.W. Invert Elev.=7.09
Catch Basin
Top of Grate Elev.=6.61
S.W. Invert Elev.=4.92
Invert Elev.=4.96
Catch Basin
Top of Grate Elev.=8.16
Structure Invert Elev.=6.21
Catch Basin
Top of Grate Elev.=8.81
S.W. Invert Elev.=4.66
Catch Basin
Top of Grate Elev.=8.16
S.W. Invert Elev.=4.64
Catch Basin
Top of Grate Elev.=8.16
S.W. Invert Elev.=5.36
Catch Basin
Top of Grate Elev.=8.16
N.W. Invert Elev.=5.91
N.E. Invert Elev.=5.91
Catch Basin
Top of Grate Elev.=8.02
S.W. Invert Elev.=5.72
Drop Manhole
Top of Structure
Structure Invert Elev.=6.43
Top of Structure
MH

SHEET KEY



20 0 10 20
(IN FEET)
1 inch = 20 ft.

DATUM
VERTICAL DATUM BASED UPON MEAN SEA LEVEL OBSERVATION.

LEGEND
- LIGHT POLE
- BOLLARD
- SIGNAGE
- FENCE
- SPOT ELEVATION
- WATER VALVE
- FIRE HYDRANT
- MANHOLE (unknown)
- MANHOLE (communications)
- MANHOLE (sanitary)
- MANHOLE (storm)
- INLET (storm)
- UTILITY POLE & LINES
- SPOT ELEVATION

REVISED:
6 - 12 - 2025: Add wall and gut detail

PROFESSIONAL LAND SURVEYOR
RYAN C. WISEHART
773 LS
ST. VIRGIN ISLANDS

Brian Moseley & Associates, Inc.
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ST. THOMAS, U.S. VIRGIN ISLANDS 00802
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PARTIAL TOPOGRAPHIC SURVEY OF WESTERN AREA

The Westin Resort

Parcel No. 300 A
Estate Chocolate Hole
No. 11 Cruz Bay Quarter
St. John, U.S. Virgin Islands

SURVEY: R.C.W. / W.J.	DRAWN: D.I.S. / R.C.W.
CALC: R.C.W.	SCALE: 1" = 20'
DATE: 06 - 03 - 2025	DWG No.: 3530-AB-7
APPROVED: Ryan C. Wisehart	SHEET NO. 2 of 3

Parcel No. 6B
(D9-7090-T002)

Parcel No. 6C
(D9-7090-T002)

Remainder of
Parcel No. 300A
(Refer To A9-315-T85)

Parcel No. 300A-4
(A9-809-T015)

GREAT CRUZ BAY

Top of Bank

Edge of Water

Natural Gut

Estimated center of Gut

Morning Dove Trail

Morsh Area

Building

Tennis Courts

Pickleball Courts
(not included this survey)

Basketball Court
(not included this survey)

Playground

Maintenance Building

Concrete Maintenance Area

Elevated Slab

Container

Slab

Wall

Covered Area

Covered

Gate

Pump

Generators on Slab

Boardwalk

Planter

Step

Stamped Concrete

Stamped Concrete Walkways

Stone Planter Wall

Grass

Gazebo

Hot Tub

Kiddie-Pool

Plntr

Tennis Courts Gate

Catch Basin
Top of Grate Elev.=8.27
N.W. Invert Elev.=4.77
S.E. Invert Elev.=4.82
N.E. Invert Elev.=6.12

Catch Basin
Top of Grate Elev.=6.61
S.W. Invert Elev.=4.92
S.E. Invert Elev.=4.96

Catch Basin
Top of Grate Elev.=6.33
N.W. Invert Elev.=3.63
N.E. 8" Invert Elev.=3.50
N.E. 12" Invert Elev.=4.63

Curb Inlet
Top of Grate Elev.=5.94
Invert Inaccessible

Curb Inlet
Top of Grate Elev.=8.02
Invert Inaccessible

Curb Inlet
Top of Grate Elev.=8.30
Invert Inaccessible

Curb Inlet
Top of Grate Elev.=6.31
Invert Inaccessible

Curb Inlet
Top of Grate Elev.=7.37
Invert Inaccessible

Top of Curb Inlet
Top of Grate Elev.=8.16
Invert Inaccessible

F.F. Elev.
6.32 Ft.

F.F. Elev.
8.13 Ft.

F.F. Elev.
8.86 Ft.

F.F. Elev.
8.08 Ft.

F.F. Elev.
8.30 Ft.

F.F. Elev.
10.20 Ft.

F.F. Elev.
9.21 Ft.

Building No. 10
(Finish Floor Elevation 8.08)

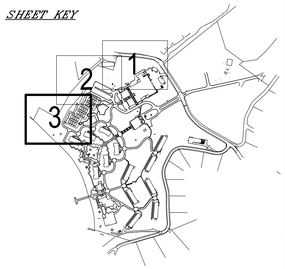
Building No. 12
(Finish Floor Elevation 10.20)

TREE.14", TREE.10"
TREE.12"
TREE.12", TREE.10"
TREE.12" COCONUT
TREE.12" COCONUT
TREE.14" MANGO
TREE.8" GS
TREE.10" GS
6" Tree
16" Mahogoo w/ Vines
6"Coconut
6"Coconut

12.98 TOP.WALL Wall
12.01 TOP.WALL
12.01 TOP.WALL
9.01 TOP.WALL
Step
Step

28"cmp
12"cmp
12"cmp
8"cmp
8"cmp

SHEET KEY



20 0 10 20
(IN FEET)
1 inch = 20 ft.

DATUM
VERTICAL DATUM BASED UPON MEAN SEA LEVEL OBSERVATION.

LEGEND
- LIGHT POLE
- BOLLARD
- SIGNAGE
- FENCE
- SPOT ELEVATION
- WATER VALVE
- FIRE HYDRANT
- MANHOLE (unknown)
- MANHOLE (communications)
- MANHOLE (sanitary)
- MANHOLE (storm)
- INLET (storm)
- UTILITY POLE & LINES
- SPOT ELEVATION

REVISED :
6 - 12 - 2025: Add wall and gut detail

PROFESSIONAL LAND SURVEYOR
RYAN C. WISEHART
773 LS
ST. VIRGIN ISLANDS

Brian Moseley & Associates, Inc.
Land Surveyors & Consultants
4003 RAPHUNE HILL ROAD SUITE 606
ST. THOMAS, U.S. VIRGIN ISLANDS 00802
PHONE (340) 774-5310 FAX (340) 776-4090
www.visurveyors.com

PARTIAL TOPOGRAPHIC SURVEY OF WESTERN AREA

The Westin Resort

Parcel No. 300 A
Estate Chocolate Hole
No. 11 Cruz Bay Quarter
St. John, U.S. Virgin Islands

SURVEY: R.C.W. / W.J.	DRAWN: D.J.S. / R.C.W.
CALC: R.C.W.	SCALE: 1" = 20'
DATE: 06 - 03 - 2025	DWG No.: 3530-AB-7
APPROVED: Ryan C. Wisehart	SHEET NO. 3 of 3

APPROX. PROPERTY LINE
APPROX. TOP OF BANK, (DASHED ORANGE), SEE NEW WORK PLAN FOR SETBACK TO THE CENTER OF GUT.
APPROX. EXISTING STORAGE CONTAINERS TO BE RELOCATED (DASHED BLUE)
APPROX. EXISTING RETAINING WALL & CHAIN LINK FENCE
OUTLINE OF PROPOSED AREA OF INVESTIGATION FOR EXACT LOCATION OF EXISTING UTILITY LINES THAT DO NOT SHOW ON THE SURVEY (AREA IN YELLOW - APPROX. 13,700 SF
CENTERLINE OF "GUT"
APPROX. EDGE OF TREE CANOPY
EXISTING TREES TO REMAIN (TYPICAL)
APPROX. EXISTING RETAINING WALL & CHAIN LINK FENCE
FICUS
EXISTING LIGHT POLES TO REMAIN (TYPICAL)
TOP OF BANK
EXISTING 18" FLAMBOYANT TREE TO BE REMOVED (PROVIDE NEW REPLACEMENT NATIVE TREES PER NEW WORK PLANS)
CENTERLINE OF "GUT"
APPROX. EXISTING 6" CONDENSATE LINE ALONG TOP OF RETAINING WALL (IN PURPLE)
EDGE OF FOOTING @ RETAINING WALL, 24" OFF FACE OF WALL (IN GREEN)
APPROX. EXISTING COVERED ALUMINUM PARKING CANOPY TO BE REPAIRED (DASHED BLUE)
8" PVC PIPE TRANSITION BELOW GRADE (VERIFY)
EXISTING GREEN SPACE
OUTLINE OF PROPOSED NEW RO PLANT & CISTERNS - ~6,535 SF - SEE NEW WORK PLANS
APPROX. EXISTING STORAGE CONTAINERS TO BE RELOCATED (DASHED BLUE)
PER GPR SURVEY (3) UNKNOWN UTILITY LINES. FOUND VIA GPR. (DASHED ORANGE)
EXISTING (2) LARGE 24" GREGRE. TREES TO REMAIN. PROTECT DURING CONSTRUCTION
EXISTING DAMAGED TREE TO BE REMOVED
24" GREGRE (EXISTING)
GREGRE 18"
GREGRE 10"
GREGRE 8"
KEEP (9) EXISTING GREGRE TREES. PROTECT DURING CONSTRUCTION
NEW TEST PILE STRUCTURE (FINAL LOCATION TBD)
EXTG. LIGHT POLES ON CONCRETE PEDESTALS TO REMAIN
30" GREGRE (EXISTING)
EXISTING LANDSCAPE BUFFER / SCREEN
RELOCATE EXISTING CAMERA POLE AND BOLLARDS
APPROX. LOCATION OF EXISTING 6" INTAKE AND DISCHARGE LINES FROM (EXACT LOCATION TO BE CONFIRMED BASED ON NEW AS-BUILT DRAWINGS)
EXTG LIGHT POLE
30" GREGRE (EXISTING)
APPROXIMATE EDGE OF EXISTING TREE CANOPY
EXISTING GREEN SPACE
APPROXIMATE EDGE OF TREE CANOPY
36" GREGRE (EXISTING)
24" GREGRE (EXISTING)
30" ANDIRA INERMIS (EXISTING)
EXTG LIGHT POLE
PER STABILIS & GPR SURVEY (3) UNKNOWN UTILITY LINES COULD NOT FIND VIA GPR. EXCAVATED 3' (DASHED ORANGE)
PER STABILIS SURVEY 6" WATER LINE (LIKELY THE RO INTAKE LINE) -2' BELOW SURFACE
EXISTING STEEL FOOTING
POTENTIAL GAS LINE (DASHED BLUE), VIF -(NOT VISIBLE ON GPR -EXCAVATION REQ'D.
EXISTING TANK ENCLOSURE WITH CONCRETE SLAB
ROOF OVERHANG OF MAIN LOBBY BUILDINGS
APPROX. EDGE OF MAIN LOBBY BUILDINGS F.F. ELEVATION -+14.8'
EXISTING MANHOLE
EXISTING SERVICE AREA - CONCRETE PAVING
EXISTING WOOD FRAMED CHEMICAL STORAGE BUILDING TO BE DEMOLISHED
EXISTING WELL - VERIFY LOCATION
BACK OF HOUSE
MANGO DELI
SALES GALLERY
FITNESS CENTER / SALES OFFICES
SALES GALLERY
LOBBY
65'-1"
8'-10"
101'-0"
64'-3"
+/- 41'-0" (PER GPR - VOJ)
+/- 25'-0" (PER GPR - VOJ)
10'-0"
15'-0"
8'-2"
8'-8"

N
PROJECT TRUE
N

1 DEMO PLAN - SITE PLAN
1" = 20'-0"

Revisions / Submission

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REGISTERED ARCHITECT
ROBERT M. COLEMAN III
0-359-1B
U.S. VIRGIN ISLANDS

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston, TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

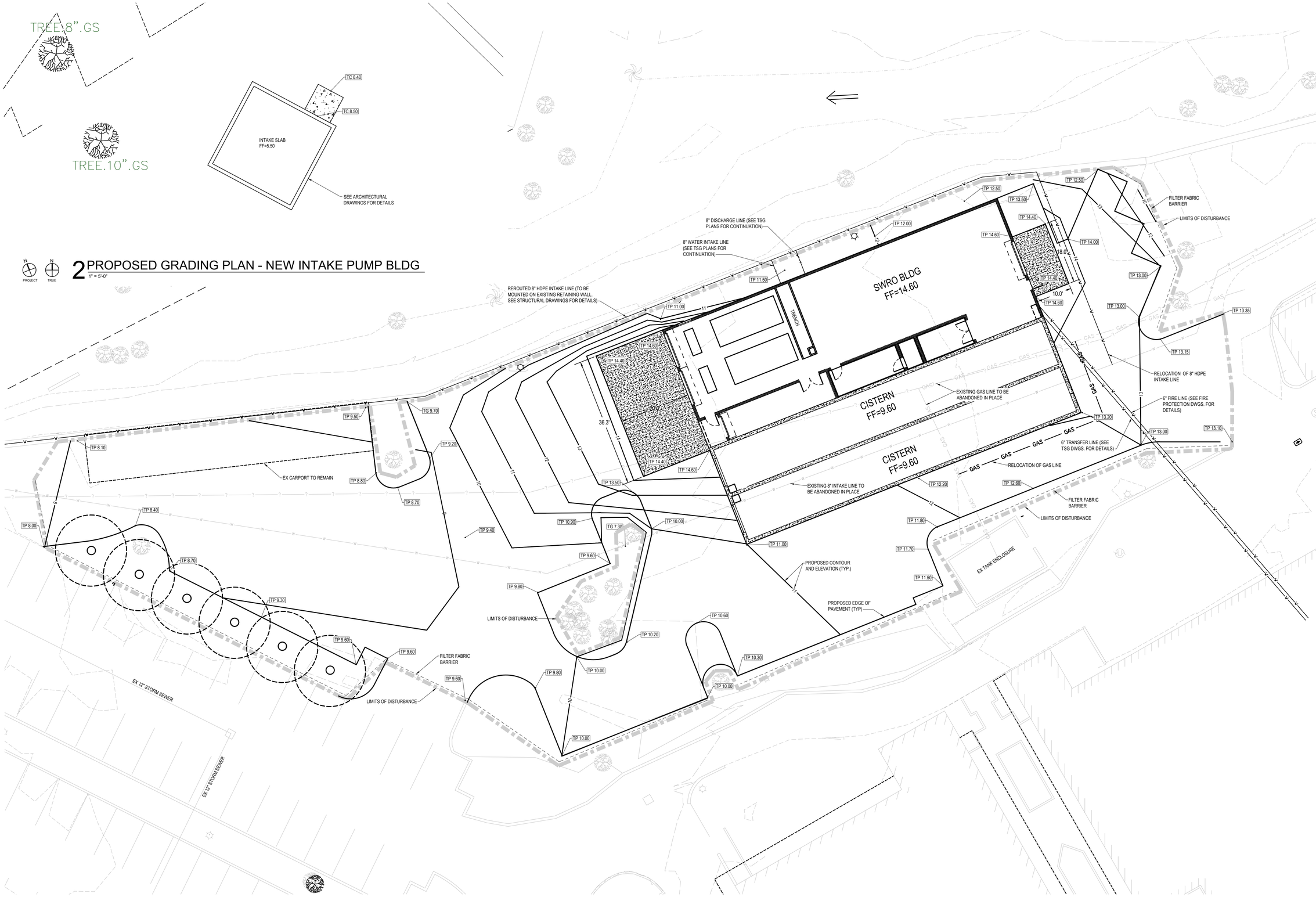
WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

Project Number: 24032.05
Date: NOVEMBER 14, 2025
Project Architect: JMH

SITE PLAN DEMOLITION

D1.0

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N PROJECT N TRUE

2 PROPOSED GRADING PLAN - NEW INTAKE PUMP BLDG

1" = 5'-0"

N PROJECT N TRUE

1 PROPOSED GRADING PLAN - NEW SWRO PLANT PARKING LOT

1" = 10'-0"

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BRADLEY CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

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ST. JOHN, USVI

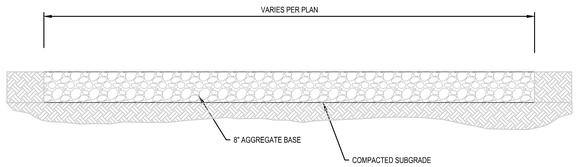
Project Number:	24032.05
Date:	NOVEMBER 14, 2025
Project Architect:	JMH

GRADING PLAN - SWRO PLANT PARKING LOT

C1-02

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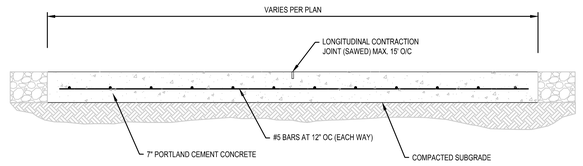
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GENERAL NOTES:

1. AGGREGATE SHALL BE SIZED PER AASHTO M147 OR ASTM D2940 AND COMPACTED TO 95% MAXIMUM DRY DENSITY.
2. SUBGRADE SHALL BE SCARIFIED AND COMPACTED TO 98% STANDARD PROCTOR DENSITY (-1% - +2%).
3. SUBGRADE SHALL BE PROOF ROLLED AND SOFT AREAS REPLACED PRIOR TO PLACING PAVEMENT SECTION.

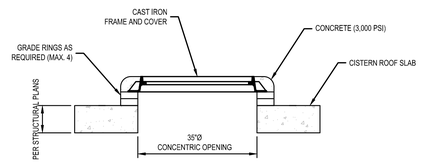
1 GRAVEL PAVEMENT TYPICAL SECTION
SCALE: NOT TO SCALE



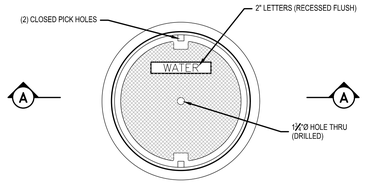
GENERAL NOTES:

1. CONCRETE SHALL BE 4000 PSI WITH 5% ENTRAINED AIR (+/-1%).
2. SUBGRADE SHALL BE SCARIFIED AND COMPACTED TO 98% STANDARD PROCTOR DENSITY (-1% - +2%).
3. SUBGRADE SHALL BE PROOF ROLLED AND SOFT AREAS REPLACED PRIOR TO PLACING PAVEMENT SECTION.

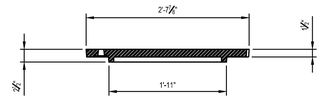
2 CONCRETE PAVEMENT TYPICAL SECTION
SCALE: NOT TO SCALE



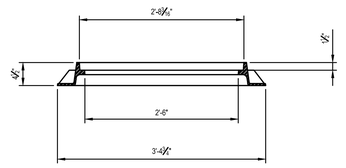
ACCESS MAN HOLE
SCALE: NONE
CISTERN ROOF SLAB



FRAME AND COVER
SCALE: NONE
PLAN VIEW



COVER SECTION A-A
SCALE: NONE

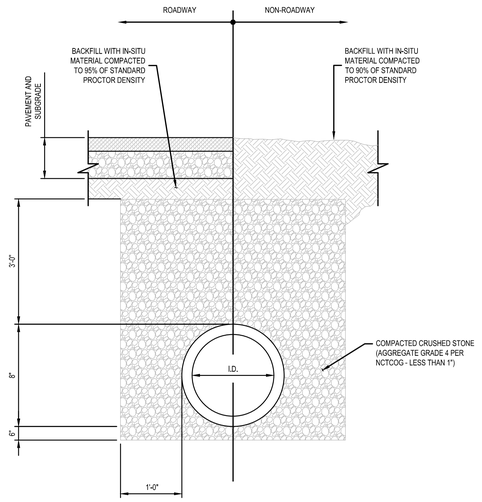


FRAME SECTION A-A
SCALE: NONE

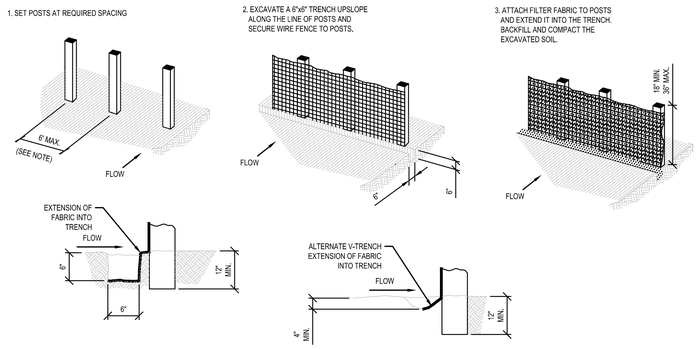
NOTES:

1. JOINT SEALANT: RAM-NEK GASKET MATERIAL
2. FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS MODEL V-1420 OR APPROVED EQUAL.
3. SHOP DRAWINGS WITH MANUFACTURER'S CERTIFICATION SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL.

5 CISTERN ACCESS MAN HOLE DETAILS
SCALE: NOT TO SCALE



3 INTAKE PIPE TRENCH DETAIL
SCALE: NOT TO SCALE



NOTES:

1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.

4 FILTER FABRIC BARRIER DETAIL
SCALE: NOT TO SCALE

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
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New Orleans, LA 70112
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MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
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SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
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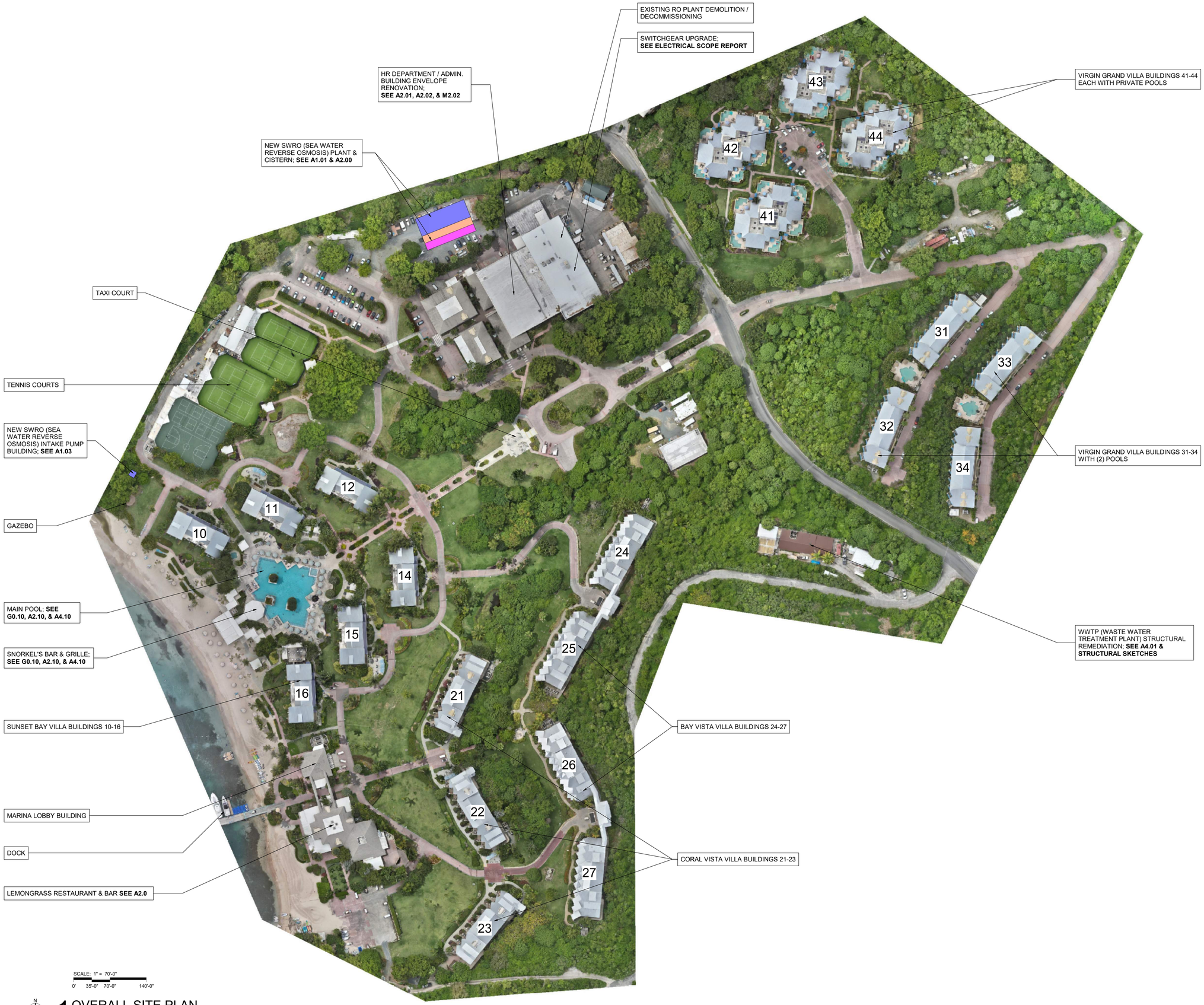
Project Number: 24032.05
Date: NOVEMBER 14, 2025
Project Architect: JMH

SECTIONS AND DETAILS
- SWRO PLANT PARKING LOT

C1-03

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SCALE: 1" = 70'-0"
0' 35'-0" 70'-0" 140'-0"

N

1 OVERALL SITE PLAN
1" = 70'-0"

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0-359-1B
U.S. VIRGIN ISLANDS

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NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

Project Number:	24032.05
Date:	NOVEMBER 14, 2025
Project Architect:	JMH

ARCHITECTURAL SITE PLAN - ALL PROJECTS

A1.00

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12/15/2025 2:20:00 PM

APPROX. PROPERTY LINE
1 DAMAGED TREE TO BE REMOVED
APPROX. EXISTING RETAINING WALL & CHAIN LINK FENCE
APPROX. 30'-0" SETBACK LINE FROM CENTERLINE OF "GUT" (DASHED BLUE)
STRIPE EXISTING PARKING SPACES **(ADD. ALTERNATE 1)**
CENTERLINE OF "GUT"
PROPOSED SWRO BUILDING (35'-0" W x 99'-8" L x 12'-0" H INTERIOR **(3,488 SF)**)
RE: 1 / A2.00
EXISTING GREGRE TREES TO REMAIN -PROVIDE BUFFER FREE OF EXISTING GRAVEL
INTAKE AND DISCHARGE PIPE CONNECTION TO TRENCH RE: CIVIL & TSG DRAWINGS
FICUS
EXISTING PARKING CANOPY TO REMAIN - ROOF TO BE REPAIRED
ACCESS SPACE FOR RO TRAINS
EDGE OF FOOTING @ RETAINING WALL, 24" OFF FACE OF WALL (IN GREEN)
APPROX. LOCATION OF EXISTING 8" CONDENSATE LINE ALONG TOP OF RETAINING WALL (IN PURPLE)
RE-CONNECT THE NEW 8" HDPE INTAKE LINE HERE
TOP OF BANK
EXISTING GREEN SPACE
PLANT SLAB - **F.F.E. +14.6'**
INSIDE CLEARANCE AT ~+26.0'
ROOF AT ~+27.6'
CISTERN BOTTOM - **F.F.E. +9.6'**
FILLED DEPTH AT ~+25.16'
ROOF AT ~+28.6'
PROPOSED +/-300,000 GALLON CISTERN **(2,573 sf x 18.5' H INTERIOR)**
RE-ROUTE EXISTING 8" HDPE INTAKE LINE AROUND BUILDING TEMPORARILY & TO USE FOR WELL BACKFEED FOR THE NEW PLANT (DASHED MAGENTA)
36" GREGRE (EXISTING)
24" GREGRE (EXISTING)
EXISTING MANHOLE
EXISTING UTILITY LINE BELOW GRADE? DETERMINED WHAT TYPE OF LINE THIS IS? (DASHED ORANGE & BLUE) - **STABILIS WILL INVESTIGATE**
EXISTING SERVICE AREA - CONCRETE PAVING
EXISTING WOOD FRAMED CHEMICAL STORAGE BUILDING TO BE DEMOLISHED
39 TOTAL NEW PARKING SPACES IN GRAVEL AREAS
(27) AT 9'-0" x 18'-0"
(10) AT 9'-0" x 16'-0" (COMPACT)
(2) AT 9'-0" x 23'-0" (PARALLEL)
EXISTING WELL TO CONNECT TO RO PLANT. VERIFY LOCATION
24" GREGRE (EXISTING)
30" ANDIRA INERMIS (EXISTING)
EXISTING GREGRE TREE TO REMAIN - PROVIDE BUFFER FREE OF EXISTING GRAVEL
EXISTING LIGHT POLE & (9) GREGRE TREES TO REMAIN (VARIOUS SIZES)
PER STABILIS SURVEY 6" WATER LINE (MAY BE THE RO INTAKE) 2' BELOW SURFACE (DASHED RED)
APPROX. EDGE OF MAIN LOBBY BUILDINGS F.F. ELEVATION -/+14.8'
POTENTIAL GAS LINE (DASHED BLUE). VIF
BACK OF HOUSE
TANKS
NEW LANDSCAPE BUFFER
10' DEEP CONCRETE PADS AT ENTRY POINTS. **RE: STRUCTURAL DRAWINGS**
EXISTING TANK ENCLOSURE WITH CONCRETE SLAB
ROUGH ROUTE OF TRANSFER PIPING TO EXISTING CISTERN UNDER BALLROOM. RE: PLUMBING / CIVIL DRAWINGS
(6) NEW NATIVE TREES IN BUFFER AREA **(ADD. ALTERNATE 2)**
RELOCATE EXISTING CAMERA POLE AND BOLLARDS
MODIFY/ADD EXISTING LANDSCAPE BUFFER / SCREEN **(ADD. ALTERNATE 2)**
30" GREGRE (EXISTING)
ROOF OVERHANG OF MAIN LOBBY BUILDINGS
APPROX. LOCATION OF EXISTING 6" INTAKE LINES (EXACT LOCATION TO BE CONFIRMED BASED ON NEW AS-BUILT DRAWINGS)
30" GREGRE (EXISTING)
MANGO DELI
FITNESS CENTER / SALES OFFICES
SALES GALLERY
SALES GALLERY
EXISTING GUEST PARKING LOT (CONCRETE PAVERS)
LOBBY

N PROJECT N TRUE

1 PROPOSED PLAN - NEW SWRO PLANT & CISTERN
1" = 20'-0"

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ROBERT M. COLEMAN III
0-359-1B
U.S. VIRGIN ISLANDS

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
3701 Kirby Drive, Suite 830
Houston, TX 77098
tel 832.947.1038
935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

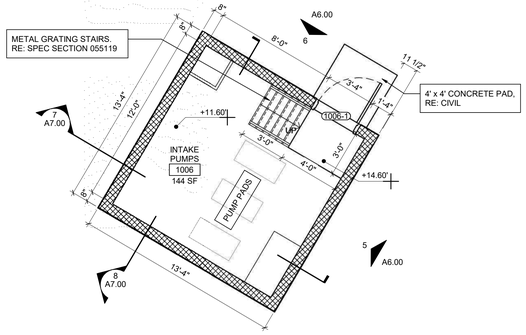
Project Number:	24032.05
Date:	NOVEMBER 14, 2025
Project Architect:	JMH

ARCHITECTURAL SITE PLAN - SWRO PLANT

A1.01

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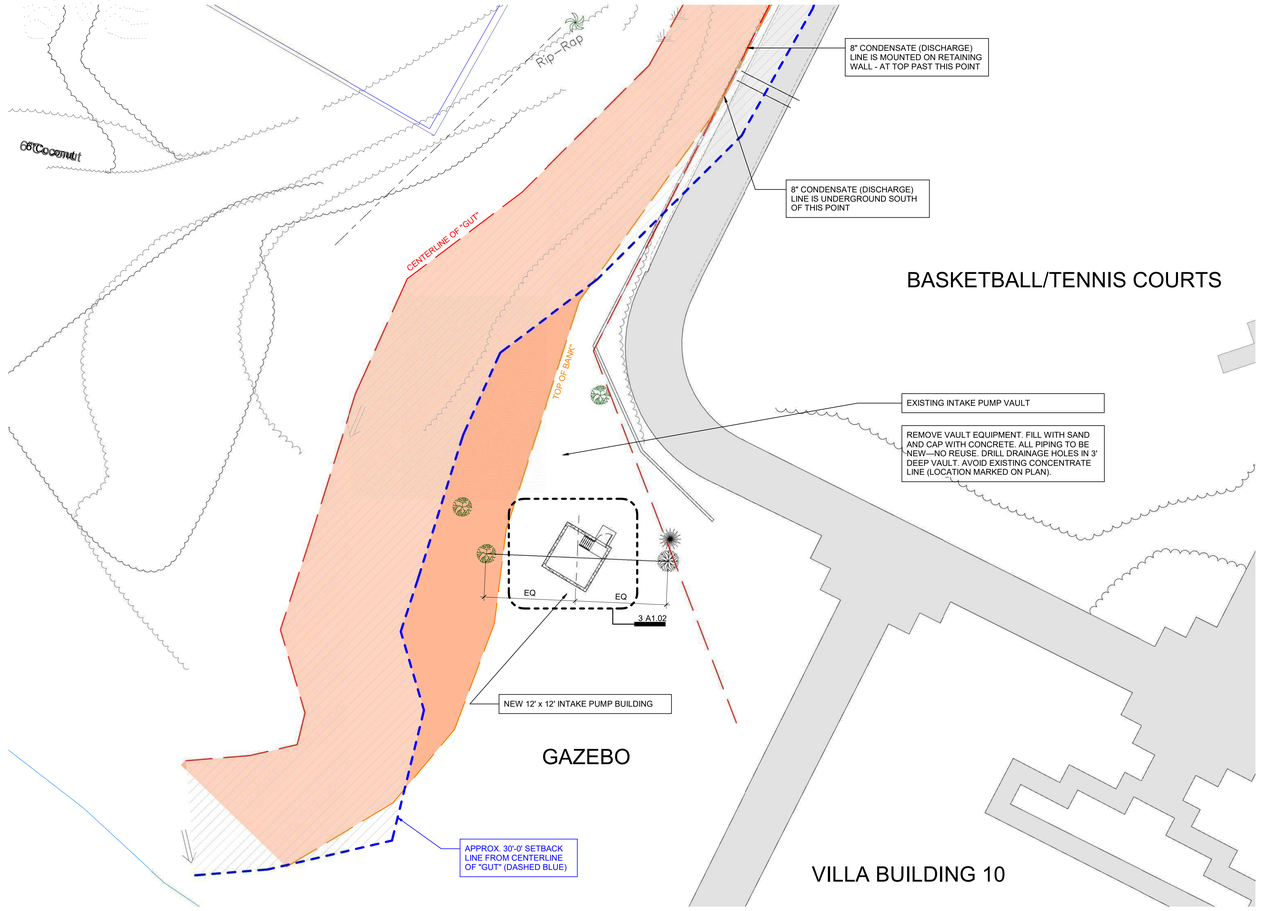
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3 ENLARGED PLAN - INTAKE PUMP BUILDING
1/4" = 1'-0"

SEE TSG DRAWINGS FOR INTAKE PUMP BUILDING LAYOUT



N

1 PROPOSED PLAN - INTAKE PUMP BUILDING
1/16" = 1'-0"



N

2 DRONE SITE PLAN
1" = 100'-0"

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SITE AND FLOOR PLAN - INTAKE PUMP BUILDING

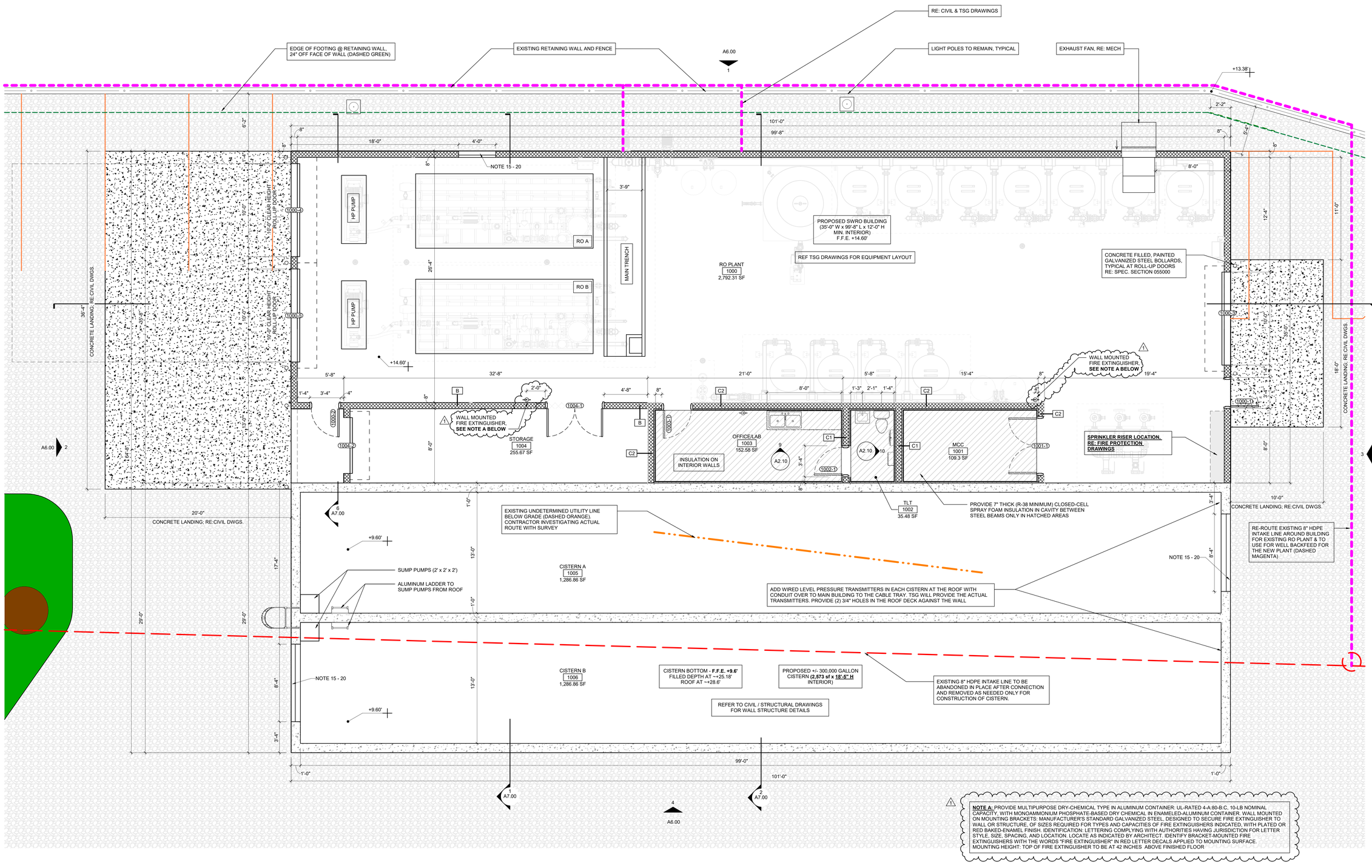
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MATERIAL KEYNOTES

NOTE 15 - 20 LOUVER RE: MECHANICAL



N

1 ENLARGED PLAN - NEW SWRO PLANT & CISTERN

1/4" = 1'-0"

1	ASI-006.2-WSJ	01/09/26

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FLOOR PLANS - SWRO PLANT & CISTERN

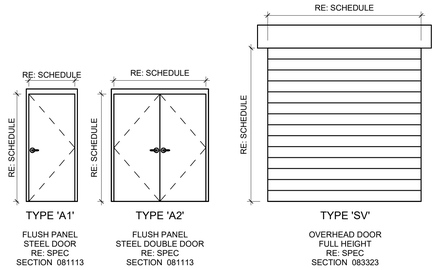
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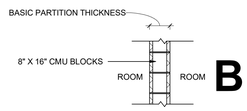
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DOOR SCHEDULE - SWRO PLANT

Mark	Type	Width	Height	Thickness	Door Material	Door Finish	Frame Material	Frame Finish	Head	Jamb	Threshold	Comments	HDW Set
1000-1	A1	3'-0"	7'-0"	1 3/4"	STEEL	PAINT	H.M.	PAINT	5/A2.10	6/A2.10			
1000-2	A1	3'-0"	7'-0"	1 3/4"	STEEL	PAINT	H.M.	PAINT	5/A2.10	6/A2.10			
1000-3	SV	10'-0"	10'-0"	2"	ALUMINUM ROLL-UP DOORS	PREFINISHED	H.M.	PAINT	3/A2.10	4/A2.10			
1000-4	SV	10'-0"	10'-0"	2"	ALUMINUM ROLL-UP DOORS	PREFINISHED	H.M.	PAINT	3/A2.10	4/A2.00			
1000-5	SV	10'-0"	10'-0"	2"	ALUMINUM ROLL-UP DOORS	PREFINISHED	H.M.	PAINT	3/A2.10	4/A2.00			
1001-1	A2	6'-0"	7'-0"	1 3/4"	STEEL	PAINT	H.M.	PAINT	5/A2.10	6/A2.10			
1002-1	A1	3'-0"	7'-0"	1 3/4"	STEEL	PAINT	H.M.	PAINT	7/A2.10	8/A2.10			
1003-1	A1	3'-0"	7'-0"	1 3/4"	STEEL	PAINT	H.M.	PAINT	5/A2.10	6/A2.10			
1004-1	A2	6'-0"	7'-0"	1 3/4"	STEEL	PAINT	H.M.	PAINT	7/A2.10	8/A2.10			
1004-2	SV	6'-0"	8'-0"	2"	ALUMINUM ROLL-UP DOORS	PREFINISHED	H.M.	PAINT	3/A2.10	4/A2.10			
1006-1	A1	3'-0"	7'-0"	1 3/4"	STEEL	PAINT	H.M.	PAINT	5/A2.10	6/A2.10			



1 DOOR TYPE LEGEND - SWRO

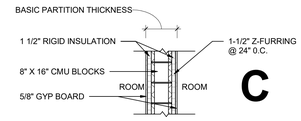


WALL TYPE	TYPE V-A CONSTRUCTION INT. WALL - TYPICAL PARTITION	STUD SIZE	BASIC PARTITION THICKNESS	STC	FIRE TEST NO. (WHERE APPLICABLE)	MIN. INSULATION REQ.
B	8" X 8" X 16" STACKED CMU BLOCKS	N/A	8"	N/A	N/A	N/A

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR INSTALLATION
2. STC NOTED ARE MINIMUM RATING REQUIRED/ CONTRACTOR SHALL SUBMIT PROPOSED ASSEMBLY AND CORRESPONDING TEST NUMBER FOR APPROVAL.

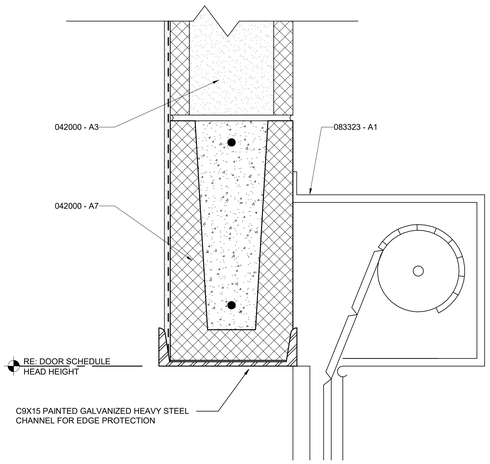
2 WALL TYPES - SWRO



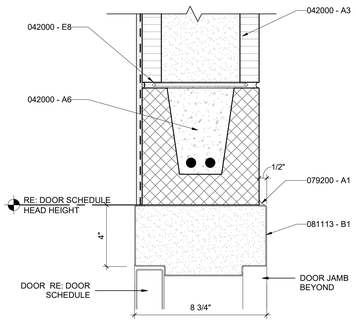
WALL TYPE	TYPE V-A CONSTRUCTION INT. WALL - TYPICAL PARTITION	STUD SIZE	BASIC PARTITION THICKNESS	STC	FIRE TEST NO. (WHERE APPLICABLE)	MIN. INSULATION REQ.
C1	8" X 8" X 16" STACKED CMU BLOCKS WITH INSULATION AND GYP BOARD ON BOTH SIDES	N/A	1' - 0 1/4"	N/A	N/A	1 1/2"
C2	8" X 8" X 16" STACKED CMU BLOCKS WITH INSULATION AND GYP BOARD ON ONE SIDE	N/A	10 1/8"	N/A	N/A	1 1/2"

NOTES:

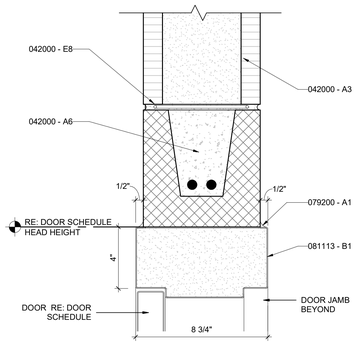
1. REFER TO STRUCTURAL DRAWINGS FOR INSTALLATION
2. STC NOTED ARE MINIMUM RATING REQUIRED/ CONTRACTOR SHALL SUBMIT PROPOSED ASSEMBLY AND CORRESPONDING TEST NUMBER FOR APPROVAL.



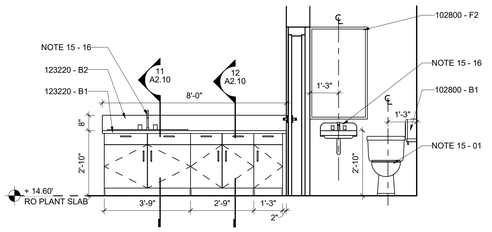
3 ROLL UP DOOR DETAIL HEAD
3" = 1'-0"



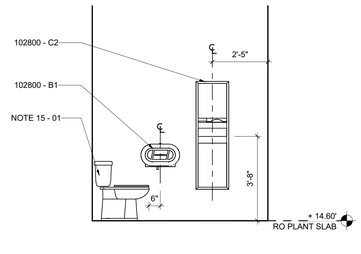
5 DOOR DETAIL - HEAD
3" = 1'-0"



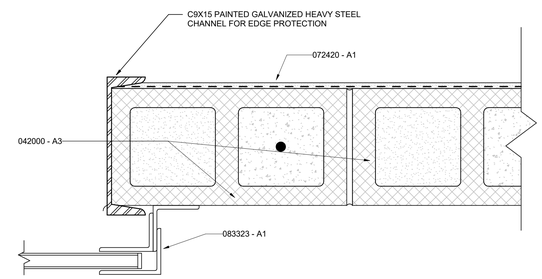
7 DOOR DETAIL - HEAD
3" = 1'-0"



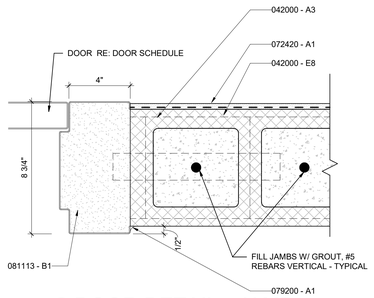
9 OFFICE/LAB & TOILET INT ELEV - NORTH
3/8" = 1'-0"



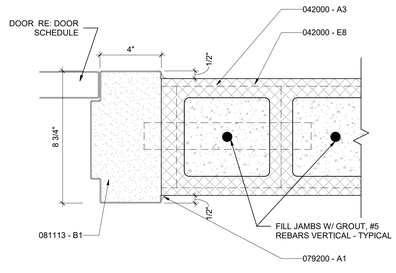
10 TOILET INT ELEV - WEST
3/8" = 1'-0"



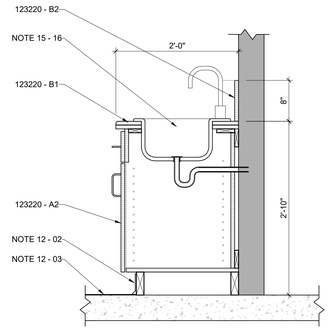
4 ROLL UP DOOR DETAIL JAMB
3" = 1'-0"



6 DOOR DETAIL - JAMB
3" = 1'-0"

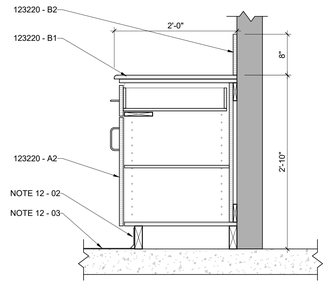


8 DOOR DETAIL - JAMB
3" = 1'-0"



11 MILLWORK SECTION
1" = 1'-0"

NOTE: PLASTIC LAMINATE AND SUBSTRATE SHALL RESIST CHEMICALS AS REQUIRED BY TSG TESTING



12 MILLWORK SECTION
1" = 1'-0"

NOTE: PLASTIC LAMINATE AND SUBSTRATE SHALL RESIST CHEMICALS AS REQUIRED BY TSG TESTING

MATERIAL KEYNOTES

042000 - A3	8X8X16 CMU, REINFORCED VERT. WITH #5 REBAR @ 32" O.C. AND COMPLETELY FILL CELLS WITH CONCRETE
042000 - A6	U-BLOCK BOND BEAM, CONCRETE FILLED WITH 2- #5 REBAR
042000 - A7	16" DEEP U-BLOCK BOND BEAM, CONCRETE FILLED WITH 2- #5 REBAR
042000 - E8	2-PIECE LADDER TYPE HORIZONTAL REINFORCING WITH ADJUSTABLE EYE AND WIRE TIE @ 16"O.C. VERT - TYP.
072420 - A1	DIRECT-APPLIED EXTERIOR FINISH SYSTEMS (DEFS)
079200 - A1	JOINT SEALANT
081113 - B1	HOLLOW METAL DOOR FRAME
083323 - A1	OVERHEAD COILING DOOR
102800 - B1	SURFACE-MOUNTED TOILET TISSUE DISPENSER. 24" AFF. RE: ID
102800 - C2	SURFACE-MOUNTED COMBINATION ROLL PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
102800 - F2	GLASS MIRROR
123220 - A2	PLASTIC LAMINATE FACED CASEWORK - BASE CABINET
123220 - B1	PLASTIC LAMINATE FACED COUNTERTOP
123220 - B2	PLASTIC LAMINATE FACED BACKSPLASH - TYPICAL
123623 - A2	PLASTIC LAMINATE-CLAD BACK SPLASH
NOTE 12 - 02	BASE RE: FINISH SCHEDULE
NOTE 12 - 03	FLOOR FINISH RE: FINISH SCHEDULE
NOTE 15 - 01	NEW ADA COMPLAINT TOILET. RE: ID
NOTE 15 - 16	SINK AND FAUCET RE: PLUMBING

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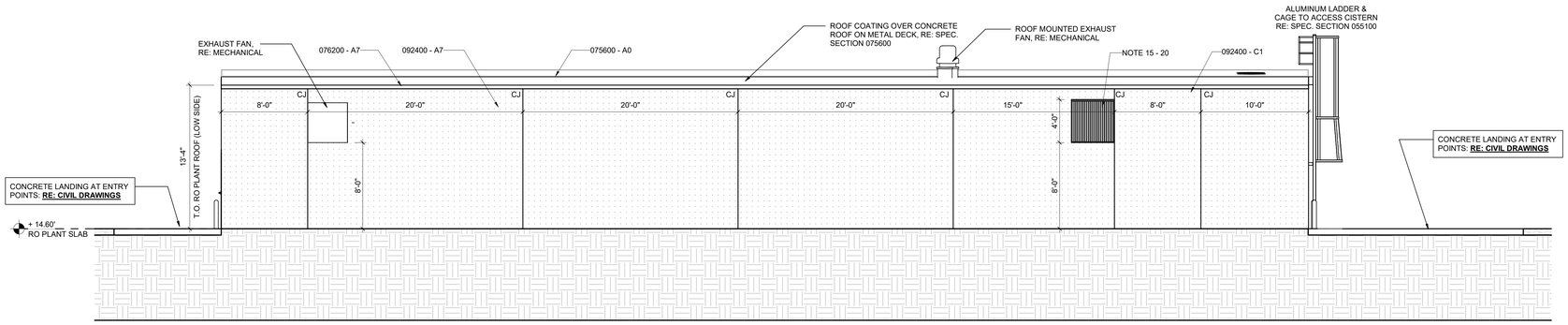
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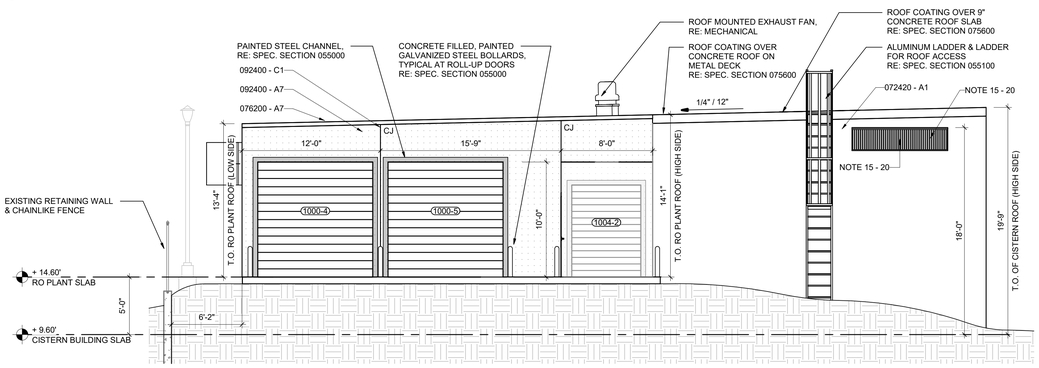
INT ELEVATIONS / DOOR & WALL TYPES

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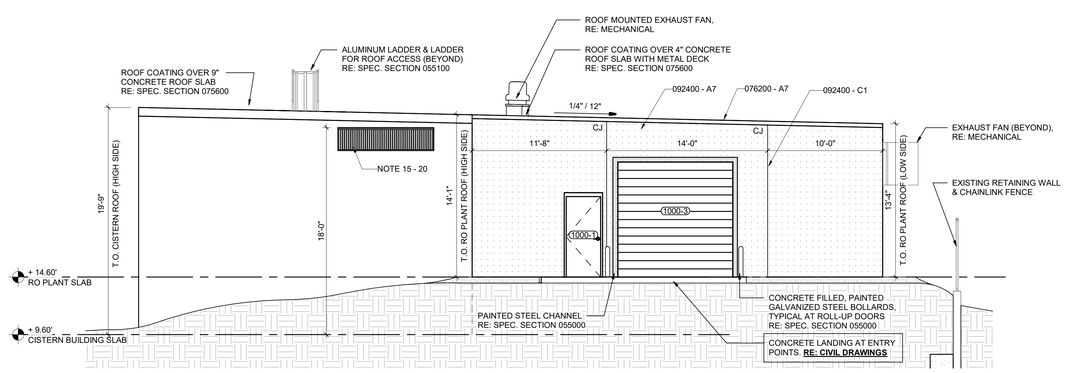
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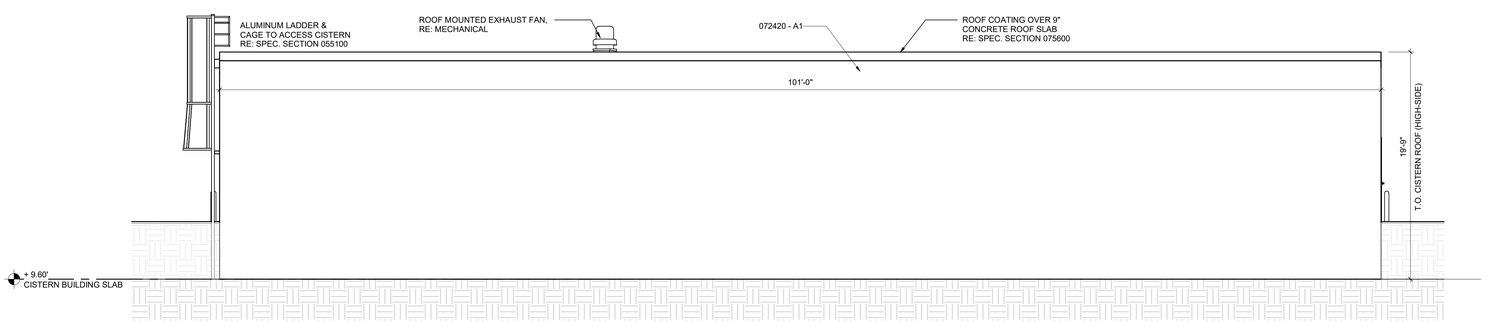
1 NORTH ELEVATION - SWRO PLANT
3/16" = 1'-0"



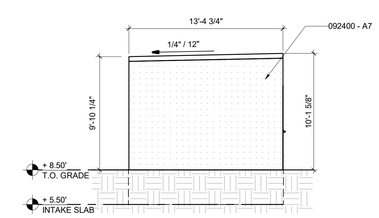
2 WEST ELEVATION - SWRO PLANT
3/16" = 1'-0"



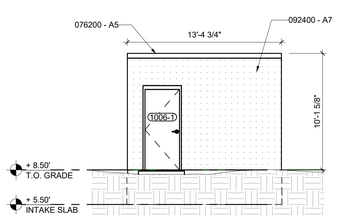
3 EAST ELEVATION - SWRO PLANT
3/16" = 1'-0"



4 SOUTH ELEVATION - SWRO PLANT
3/16" = 1'-0"



5 EAST ELEVATION - PUMP INTAKE BUILDING
3/16" = 1'-0"



6 NORTH ELEVATION - PUMP INTAKE BUILDING
3/16" = 1'-0"

MATERIAL KEYNOTES

072420 - A1	DIRECT-APPLIED EXTERIOR FINISH SYSTEMS (DEFS)
075600 - A0	FLUID-APPLIED MEMBRANE ROOFING SYSTEM SLOPED AS INDICATED ON ROOF PLAN. SIKALASTIC ROOFPRO 25, SIKA FLEECE 170 OR APPROVED EQUAL WITH 25 YEAR WARRANTY
076200 - A5	METAL HEAD FLASHING
076200 - A7	ALUMINUM DRIP EDGE FASCIA WITH CONTINUOUS HOLD-DOWN CLEAT WITH ANCHORS APPROPRIATE FOR SUBSTRATE
092400 - A7	3/8" PORTLAND CEMENT PLASTER (STUCCO) SKIM COAT DIRECTLY APPLIED TO CMU OR CONCRETE
092400 - C1	PORTLAND CEMENT PLASTER CONTROL JOINT
NOTE 15 - 20	LOUVER RE: MECHANICAL

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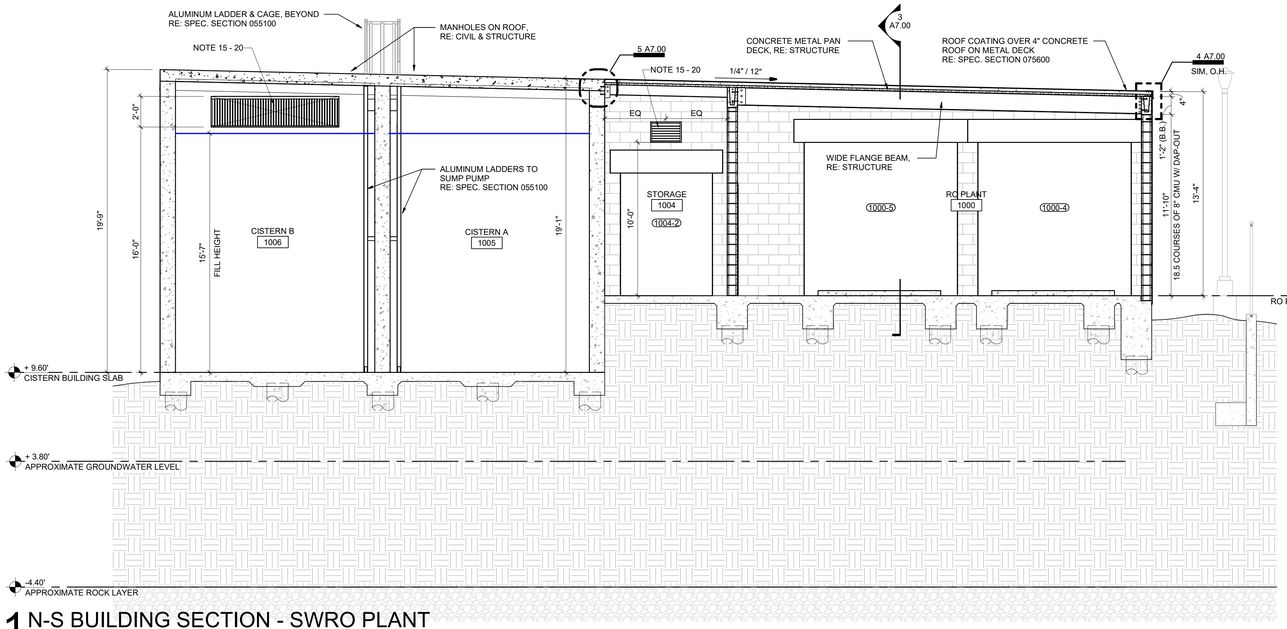
Project Number: 24032.05
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Project Architect: JMH

EXTERIOR ELEVATIONS

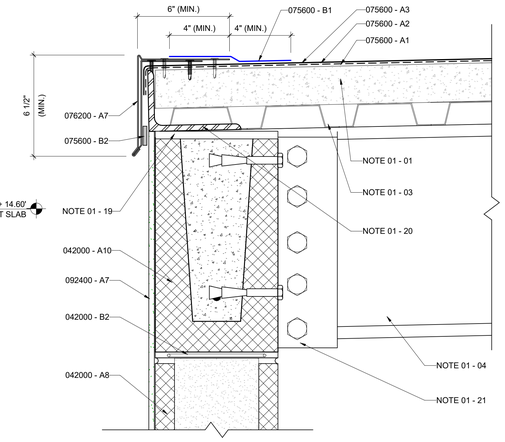
A6.00

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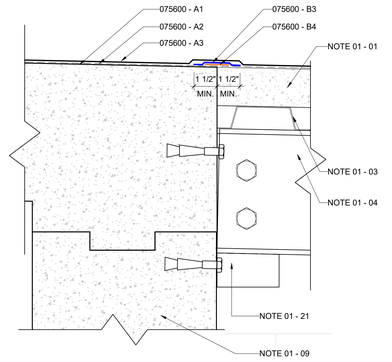
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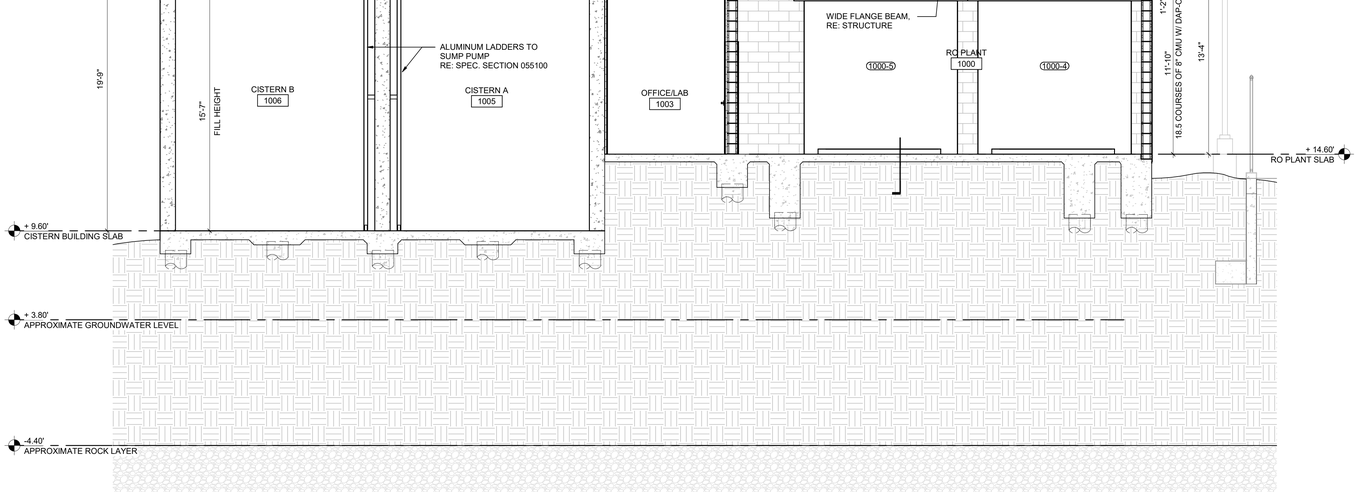
1 N-S BUILDING SECTION - SWRO PLANT
1/4" = 1'-0"



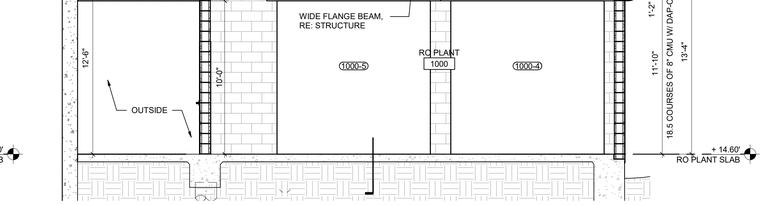
4 ROOF EDGE DETAIL
3" = 1'-0"



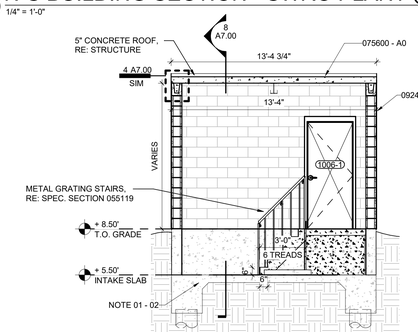
5 SECTION DETAIL
3" = 1'-0"



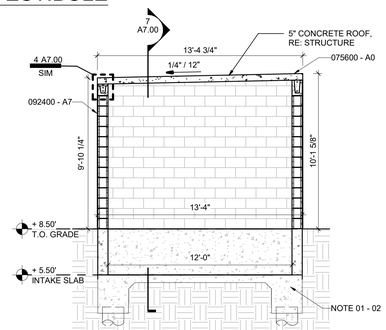
2 N-S BUILDING SECTION - SWRO PLANT @ INSULATED ROOM
1/4" = 1'-0"



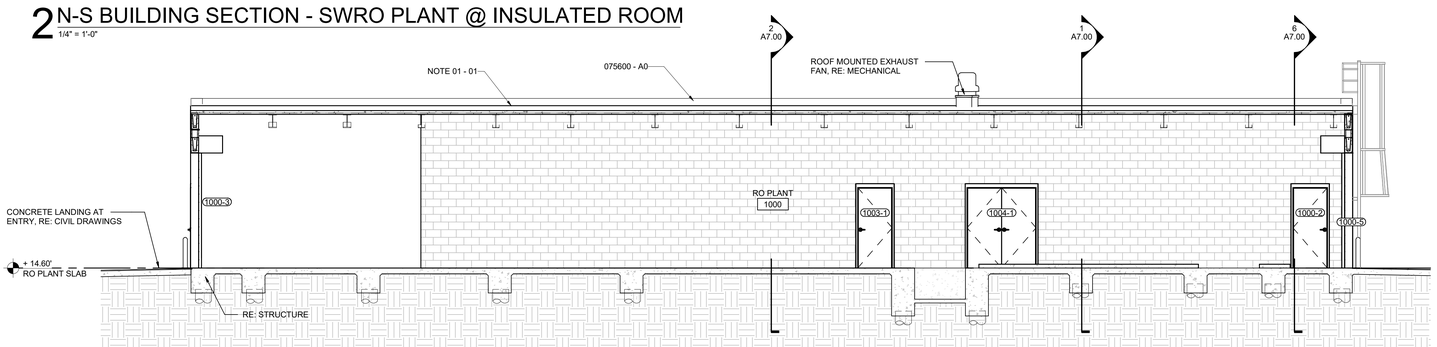
6 N-S BUILDING SECTION - SWRO PLANT @ VESTIBULE
1/4" = 1'-0"



7 INTAKE BUILDING SECTION
1/4" = 1'-0"



8 INTAKE BUILDING SECTION
1/4" = 1'-0"



3 E-W BUILDING SECTION - SWRO PLANT
3/16" = 1'-0"

MATERIAL KEYNOTES

042000 - A8	8X8X16 CMU, REINFORCED VERT. WITH #6 REBAR @ 16" O.C. AND COMPLETELY FILL CELLS WITH GROUT EVEN IF REBAR IS NOT PRESENT. RE: STRUCTURAL FOR ADDITIONAL DETAILS.
042000 - A10	U-BLOCK BOND BEAM, CONCRETE FILLED WITH 2- #4 CONTINUOUS REBAR. CUT AT TOP AS NECESSARY FOR EMBED PLATE. RE: STRUCTURAL FOR ADDITIONAL DETAILS.
042000 - B2	LADDER TYPE HORIZONTAL REINFORCING @ 16" O.C. VERTICAL
072420 - A1	DIRECT-APPLIED EXTERIOR FINISH SYSTEMS (DEFS)
075600 - A0	FLUID-APPLIED MEMBRANE ROOFING SYSTEM SLOPED AS INDICATED ON ROOF PLAN. SIKALASTIC ROOFPRO 25, SIKA FLEECE 170 OR APPROVED EQUAL WITH 25 YEAR WARRANTY
075600 - A1	PRIMER - SIKA CONCRETE PRIMER
075600 - A2	BASE MEMBRANE LAYER - SIKALASTIC 621 TC, 60 MILS WET FILM THICKNESS
075600 - A3	TOP MEMBRANE LAYER - SIKALASTIC 621 TC, 40 MILS WET FILM THICKNESS WITH SIKALASTIC FLEECE 170 REINFORCEMENT BETWEEN LAYERS
075600 - B1	SIKALASTIC FLASHING STRIP WITH JOINT TAPE - SIKA SA TAPE OR FLEXITAPE HEAVY PLUS SIKALASTIC MEMBRANE
075600 - B2	MULTI-PURPOSE TAPE
075600 - B3	3" WIDE SIKALASTIC FLEXITAPE SATURATED WITH RESIN OR 3" APPROVED TAPE
075600 - B4	1" WIDE BOND BREAKER TAPE
076200 - A7	ALUMINUM DRIP EDGE FASCIA WITH CONTINUOUS HOLD-DOWN CLEAT WITH ANCHORS APPROPRIATE FOR SUBSTRATE
092400 - A7	3/8" PORTLAND CEMENT PLASTER (STUCCO) SKIM COAT DIRECTLY APPLIED TO CMU OR CONCRETE
NOTE 01 - 01	CONCRETE FLOOR OR ROOF SLAB RE: STRUCTURAL
NOTE 01 - 02	FOUNDATION RE: STRUCTURAL
NOTE 01 - 03	STEEL DECK RE: STRUCTURAL
NOTE 01 - 04	STEEL JOIST OR BEAM RE: STRUCTURAL
NOTE 01 - 09	CONCRETE RETAINING WALL RE: STRUCTURAL
NOTE 01 - 19	GALVANIZED STEEL EMBED PLATE AND ANCHORS. RE: STRUCTURAL FOR SIZING AND DETAILS.
NOTE 01 - 20	GALVANIZED STEEL EDGE ANGLE. RE: STRUCTURAL FOR SIZING AND DETAILS.
NOTE 01 - 21	GALVANIZED STEEL STIFFENER PLATE. RE: STRUCTURAL FOR SIZING AND DETAILS.
NOTE 15 - 20	LOUVER RE: MECHANICAL

Revisions / Submission

The drawings, specifications and other documents prepared by the Architect for this project are instruments of the Architect's service for use solely with respect to this project and, unless otherwise provided, the architect shall be deemed the author of these documents and shall retain all common law, statutory and other reserved rights, including reproducible copies, of the Architect's drawings, specifications and other documents for information and reference in connection with the Owner's use and occupancy of the project. The Architect's drawings, specifications and other documents shall not be used by the Owner or others on other projects, for additions to this project or for completion of this project by others, unless the Architect is adjudged to be in default under this agreement, except by agreement in writing and with appropriate compensation to the Architect.

REGISTERED ARCHITECT
ROBERT M. COLEMAN III
0-359-1B
U.S. VIRGIN ISLANDS

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston, TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

Project Number: 24032.05
Date: NOVEMBER 14, 2025
Project Architect: JMH

BUILDING SECTIONS & DETAILS

A7.00

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ABBREVIATIONS

A.B.	ANCHOR BOLT	LBS	POUNDS
ADDL	ADDITIONAL	LDG	LANDING
ADJ.	ADJACENT	LLH	LONG LEG HORIZONTAL
ADH.	ADHESIVE	LLV	LONG LEG VERTICAL
AFF	ABOVE FINISH FLOOR	LSH	LONG SIDE HORIZONTAL
ALT.	ALTERNATE	LSV	LONG SIDE VERTICAL
ARCH.	ARCHITECT	LT	LIGHT
		LVL	LEVEL
B.L.	BRICK LEDGE	LW	LIGHT WEIGHT
BLDG	BUILDING		
BM	BEAM	MAT.	MATERIAL
B.O.B.P.	BOTTOM OF BASE PLATE	MAX.	MAXIMUM
B.O.D.	BOTTOM OF DECK	MECH.	MECHANICAL
BOTT.	BOTTOM	MEZZ.	MEZZANINE
BRG	BEARING	MFR	MANUFACTURER
BTWN	BETWEEN	MID.	MIDDLE
		MIN.	MINIMUM
CANT.	CANTILEVER	MISC.	MISCELLANEOUS
CIP	CAST IN PLACE	M.L.	MATCH LINE
C.J.	CONSTRUCTION JOINT	MTL	METAL
C.L.	CENTERLINE		
CLR	CLEAR	(N)	NEW
CMU	CONCRETE MASONRY UNIT	NIC	NOT IN CONTRACT
C.O.	CUT OFF	NO.	NUMBER
COL. (S)	COLUMN(S)	N.S.	NEAR SIDE
COMP.	COMPOSITE	NSG	NON-SHRINK GROUT
CONC.	CONCRETE	NTS	NOT TO SCALE
CONNX	CONNECTION	NW	NORMAL WEIGHT
CONST.	CONSTRUCTION		
CONT.	CONTINUOUS	O.C.	ON CENTER
CONTR.	CONTRACTOR	O.D.	OUTSIDE DIAMETER
CTR	CENTER	O.F.	OUTSIDE FACE
		O.H.	OPPOSITE HAND
D.B.	DROPPED BEAM	OPNG	OPENING
D.B.A.	DEFORMED BAR ANCHOR		
DBL	DOUBLE	P.A.F.	POWDER ACTUATED FASTENERS
DET./DTL	DETAIL	PARA.	PARALLEL
DEMO. OR (D)	DEMOLISH	PC	PRECAST
DFL	DOUGLAS FIR-LARCH	PCF	POUNDS PER CUBIC FOOT
DIA.	DIAMETER	PEMB	PRE-ENGINEERED METAL BUILDING
DIAG.	DIAGONAL	PERIM.	PERIMETER
DIM.	DIMENSIONAL	PERP.	PERPENDICULAR
DIR.	DIRECTION	PJ	PANEL JOINT
DISC.	DISCONTINUOUS	PL	PLATE
DWGS	DRAWINGS	PLY.	PLYWOOD
DWL(S)	DOWEL(S)	PREFAB.	PRE-FABRICATED
		PROJ.	PROJECTION
EA.	EACH	PSF	POUNDS PER SQUARE FOOT
E.F.	EACH FACE	PSI	POUNDS PER SQUARE INCH
E.J.	EXPANSION JOINT	PT	POST-TENSIONED
EL.	ELEVATION	PTRN	PENETRATION
ELEV.	ELEVATOR		
EMBED.	EMBEDMENT	R	REMAINDER OR RADIUS
ENGR	ENGINEER	REF.	REFER TO OR REFERENCE
EQ.	EQUAL	REINF.	REINFORCEMENT/REINFORCE
E.W.	EACH WAY	REQD	REQUIRED
EXIST. OR (E)	EXISTING	RTU	ROOF TOP UNIT
EXP.	EXPANSION		
EXT.	EXTERIOR	S.A.	STUD ANCHOR
		S.B.	STRAP BEAM
FDN	FOUNDATION	SCHED.	SCHEDULE
F.F.	FINISH FLOOR	SECT.	SECTION
F.F.E.	FINISH FLOOR ELEVATION	SHT	SHEET
FLR	FLOOR	SHR.	SHRINKAGE
FSTN	FASTEN	SIM.	SIMILAR
F.S.	FAR SIDE	S.O.G.	SLAB-ON-GROUND
FT	FEET	SPA.	SPACING
FTG	FOOTING	SPEC.	SPECIFICATION
F.V.	FIELD VERIFY	SS	STAINLESS STEEL
		STD	STANDARD
GA.	GAUGE	STIFF.	STIFFENER
GALV.	GALVANIZE	STL.	STEEL
GEOTECH.	GEOTECHNICAL	SW	SHEAR WALL
GR.	GRADE	SYM.	SYMETRICAL
G.T.	GIRDER TRUSS	SYP	SOUTHERN YELLOW PINE
HAS	HEADED ANCHOR STUD	T&B	TOP AND BOTTOM
HDR	HEADER	TEMP.	TEMPERATURE
HI	HIGH	TENSION	TENSION
HK	HOOK	TERM.	TERMINATE
HORIZ.	HORIZONTAL	THK	THICKNESS
HR	HARD ROCK	T.O.	TOP OF
HSS	HOLLOW STEEL SECTION	T.O.C.	TOP OF CONCRETE
HT	HEIGHT	T.O.F.	TOP OF FOOTING
		T.O.P.	TOP OF PIER
I.D.	INSIDE DIAMETER	T.O.S.	TOP OF STEEL / TOP OF SLAB
I.F.	INSIDE FACE	TS	TUBE STEEL
IN.	INCH	TYP.	TYPICAL
INFO.	INFORMATION		
INT	INTERIOR	U.N.O.	UNLESS NOTED OTHERWISE
INTERM.	INTERMEDIATE		
		VAR.	VARIES
JT	JOINT	VERT.	VERTICAL
JST	JOIST		
		W/	WITH
K	KIPS	W/O	WITHOUT
K.O.	KNOCK OUT	WP	WORK POINT
		WT	WEIGHT
		WWF	WELDED WIRE FABRIC

SYMBOL KEY

SYMBOL	DESCRIPTION
A	GRIDLINE IDENTIFIER
EA	EXISTING GRIDLINE IDENTIFIER
DTL # / 00 / SO / SHEET #	DETAIL MARKER
DTL # / 00 / SO / SHEET #	ELEVATION MARKER
F.F. EL. XX'-X"	FINISH FLOOR ELEVATION MARKER
TOP OR BOTT. XX'-XX"	SPOT ELEVATION MARKER
WP	WORK POINT MARKER
Step Up / Step Down with Slope / Slope Down	ELEVATION CHANGE IN SLAB OR DECK
	DECK OR SLAB SPAN DIRECTION
	MASONRY WALL
	WINDOW IN MASONRY WALL
	DOOR IN MASONRY WALL
	CONCRETE WALL
	WINDOW IN CONCRETE WALL
	DOOR IN CONCRETE WALL
COLUMN SIZE / BASE PL.	STEEL COLUMN
BEAM SIZE / WXXxXX (X) C =X" / NO. OF HEADED STUDS / REACTION (SERVICE LOAD) R=XX / CAMBER	STEEL BEAM
BEAM SIZE / WXXxXX / MOMENT CONNX / MOMENT CONNX	STEEL BEAM MOMENT CONNX
	STEEL BEAM SPLICE
VERTICAL BRACE / FLOOR OR ROOF BEAM	VERTICAL STEEL BRACE - REF. ELEVATION

STRUCTURAL DESIGN

1. STRUCTURAL DESIGN STANDARDS:

   2018 INTERNATIONAL BUILDING CODE
   LOCAL AMENDMENTS TO BUILDING CODE
   ASCE 7-22

2. STRUCTURAL DESIGN LOADS:

RISK CATEGORY	IV
FLOOR LIVE LOAD	100 psf
ROOF LIVE LOAD	20 psf
SNOW LOAD:	
GROUND SNOW LOAD	0 psf
IMPORTANCE FACTOR, Is	1.0
FLAT ROOF SNOW LOADS:	
WIND LOAD:	
WIND SPEED, Vult	179 MPH
IMPORTANCE FACTOR, Iv	1.0
EXPOSURE CATEGORY	D
MWFRS LATERAL LOAD	80 psf

C&C PRESSURES ARE SHOWN ON THE ROOF FRAMING PLANS

SEISMIC LOAD:	
SITE CLASS	E
SEISMIC DESIGN CATEGORY	D
IMPORTANCE FACTOR, Ie	1.5
S_S	1.23
S_1	0.38
S_{DS}	1
S_{D1}	0.66
BASE SHEAR	128 kips
SEISMIC FORCE-RESISTING SYSTEMS	
RO PLANT:	ORDINARY REINFORCED MASONRY SHEAR WALLS (R=2.0)
CISTERN:	ORDINARY REINFORCED CONCRETE SHEAR WALLS (R=4.0)
SEISMIC RESPONSE COEFFICIENT, C_S	0.023

EXISTING CONDITIONS

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBER. DIFFERENCES SHALL BE CLOUDED IN THE SHOP DRAWINGS.
2. ANY MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.
3. THE CONTRACTOR MUST BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE SHOWN ON THESE PLANS.

SUBGRADE PREPARATION

1. ALL ORGANIC AND DELETERIOUS MATERIAL, AS WELL AS ANY EXISTING PAVING, FOUNDATIONS, OR EXISTING FILL SHALL BE REMOVED FROM THE BUILDING PAD AREA PRIOR TO PLACEMENT OF FILL.
2. SOIL BELOW THE BUILDING PAD SHALL BE PREPARED AS NOTED IN THE GEOTECHNICAL REPORT.
3. ALL FILL SHALL BE PLACED IN LOOSE LIFTS AND COMPACTED AT ELEVATED MOISTURE CONTENT AS DETAILED IN THE ABOVE REFERENCED GEOTECHNICAL REPORT. CARE SHALL BE EXERCISED IN PLACEMENT AND COMPACTION OF FILL IN ALL LEAVE-OUTS. VAPOR BARRIER SHALL BE PLACED AND LAPPED PER MANUFACTURER'S RECOMMENDATIONS.
4. THE FINAL BUILDING PAD SHALL BE APPROVED BY THE OWNER'S GEOTECHNICAL REPRESENTATIVE PRIOR TO POURING CONCRETE.

GENERAL NOTES

1. THE DRAWINGS AND SPECIFICATIONS DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION UNLESS NOTED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL MEANS AND METHODS MEET THE REQUIREMENTS OF THE LATEST OSHA REGULATIONS.
2. ALL DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.
3. RESPONSES TO QUESTIONS AND RFI'S, COMMENTS MADE DURING THE REVIEW OF SUBMITTALS, AND DIRECTIVES PROVIDED IN ANY FORM BY THE ENGINEER TO THE CONTRACTOR DURING THE CONSTRUCTION PROCESS ARE INTENDED TO BE CLARIFICATIONS OF THE CONTRACT DOCUMENTS AND ARE NOT INTENDED TO REPRESENT A CHANGE IN COST OF THE PROJECT TO THE OWNER UNLESS A CHANGE ORDER REQUEST IS PROVIDED WITH DETAILED PRICING INFORMATION TO THE ARCHITECT BEFORE PURCHASING, DETAILING, FABRICATING, OR INSTALLING ANY COMPONENT RELATED TO SUCH CLARIFICATIONS AND CORRECTIONS.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES IF APPLICABLE, INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSEMBLE AND COORDINATE THE REQUIREMENTS OF ALL COMPONENTS OF THE CONTRACT DOCUMENTS AND VERIFY EXISTING CONDITIONS OF THE SITE, REF. ARCHITECTURAL AND ALL OTHER TRADES DOCUMENTS FOR SIZE AND LOCATION OF PIPES, VENTS, CHASES, DUCTS, OPENINGS, DEPRESSIONS, RECESSES, SLOPES, BLOCKOUTS, CURBS, EMBEDMENTS, AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL REPORT ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THOSE OF THE ARCHITECT AND ALL PROJECT CONSULTANTS OR ANY ERROR, OMISSION OR DIFFICULTY AFFECTING HIS WORK TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.
6. THE DESIGN LOADS LISTED IN THE STRUCTURAL DESIGN CRITERIA SHALL NOT BE EXCEEDED DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR CONSTRUCTION LOADS, MATERIAL STORAGE. TEMPORARY BRACING, SHORING AND FORMWORK AS REQUIRED TO KEEP ALL ELEMENTS OF THE STRUCTURE PLUMB AND IN TRUE ALIGNMENT DURING ALL PHASES OF CONSTRUCTION. DESIGN OF TEMPORARY BRACING AND SHORING SHOULD BE PROPERLY DESIGNED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEER. PERMANENT BRACING MEMBERS SHOWN ON STRUCTURAL DRAWINGS ARE REQUIRED FOR THE COMPLETED STRUCTURE AND MAY NOT BE ADEQUATE DURING CONSTRUCTION.
7. SPECIAL INSPECTIONS SHALL BE DONE BY A QUALIFIED, INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER SHOULD BE CONSIDERED A PERIODIC CHECK TO INFORM THE OWNER OF DEFECTS IN THE WORK OF THE CONTRACTOR AND DO NOT CONSTITUTE, OR SUBSTITUTE, INSPECTIONS UNLESS SPECIFICALLY CONTRACTED FOR.
8. STRUCTURAL MEMBERS AND FOUNDATIONS SUPPORTING MECHANICAL EQUIPMENT HAVE BEEN DESIGNED FOR THE WEIGHT OF THE UNITS SHOWN IN THE STRUCTURAL DRAWINGS. ANY CHANGES IN SIZE, WEIGHT, OR QUANTITY OF UNITS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS OR RELATED MATERIALS.
9. NOTICE IN WRITING OF ANY PROPOSED SUBSTITUTIONS OR ANY PROPOSED DEVIATIONS TO THE STRUCTURE AS REQUIRED BY THESE DOCUMENTS SHALL BE SUBMITTED WITH A CURRENT ICC REPORT.
10. DIMENSIONS SHOWN IN STRUCTURAL PLANS, SECTIONS, AND DETAILS TAKE PRECEDENT OVER SCALE. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT INDICATED IN THE STRUCTURAL DRAWINGS.
11. THESE PLANS MUST BE SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
13. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING PRECONSTRUCTION MEETINGS FOR THE FOUNDATION AND SUPERSTRUCTURE ELEMENTS WITH A MINIMUM OF TWO WEEKS OF NOTICE PRIOR TO START OF THE RELEVANT WORK. ATTENDEES SHALL INCLUDE THE CONTRACTORS, APPROPRIATE SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEERS. ON THE MEETING AGENDA SHALL BE REVIEW OF WORK SCOPE, PROJECT SCHEDULE OF THE ELEMENT IN QUESTION, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS, REVIEW OF MATERIALS AND ANY SPECIAL DESIGN ISSUES, CLARIFICATIONS TESTING AND ACCEPTANCE, AND ANY OTHER TOPICS DEEMED APPROPRIATE BY THE CONTRACTOR OR THE ARCHITECT.
14. THE ROOF STRUCTURE AND ITS SUPPORTING ELEMENTS HAVE BEEN DESIGNED WITH THE ASSUMPTION THAT SUFFICIENT DRAINAGE HAS BEEN PROVIDED TO PREVENT ANY PONDING OF WATER. IT IS THE RESPONSIBILITY OF THE BUILDING OWNER TO MAINTAIN THE ROOF DRAINAGE SYSTEM SUCH THAT IT FUNCTIONS AS INTENDED.

SUBMITTALS

1. SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL COMPONENTS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST CONSTRUCTION DOCUMENTS.
2. CONTRACTOR SHALL ALLOW TWO WEEKS FOR THE ENGINEER'S REVIEW OF EACH SUBMITTAL. SUBMITTALS WHICH DO NOT REFLECT THE CONTRACTOR'S APPROVAL, SIGNATURE AND DATE, OR DO NOT APPEAR TO HAVE BEEN REVIEWED BY THE CONTRACTOR WILL BE RETURNED WITHOUT REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS.
3. OMISSION FROM THE SHOP DRAWINGS OF ANY REQUIREMENTS AND/OR CORRECTIONS/COMMENTS ON THE SHOP DRAWINGS DURING REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS EVEN IF THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED. APPROVAL IS FOR GENERAL COMPLIANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS ONLY. APPROVAL ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND CONDITIONS THAT PERTAIN TO FABRICATION AND INSTALLATION OR FOR PROCESSES AND TECHNIQUES OF CONSTRUCTION. APPROVAL OF A SPECIFIC ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. CALCULATION REVIEW AND COMMENTS DO NOT INFER A DETAILED CHECK OF THE CALCULATIONS.
4. ALL ITEMS DEVIATING FROM THE STRUCTURAL DRAWINGS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS SHALL BE CLOUDED.
5. THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS FOR THE PREPARATION OF SHOP DRAWINGS IS NOT ACCEPTABLE WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD. IF SUCH AUTHORIZATION IS OBTAINED, DO NOT SUBMIT SHOP DRAWINGS WITH THE CONTRACT DOCUMENTS TITLE BLOCK AND/OR THE SEAL OF THE REGISTERED ENGINEER OF RECORD AFFIXED. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE OF THE ENGINEERING PRACTICING ACT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED DESIGN OF CERTAIN ITEMS, REFERRED TO AS DEFERRED. DOCUMENTS FOR DEFERRED SHOP DRAWINGS, INCLUDING CALCULATIONS, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS.
7. DELEGATED STRUCTURAL DESIGN AND DEFERRED SUBMITTALS INCLUDE:
   1. STEEL JOISTS / JOIST GIRDERS
8. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL.

GEOTECHNICAL REPORT

1. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON THE RECOMMENDATIONS GIVEN IN THE FOLLOWING GEOTECHNICAL INVESTIGATION REPORT:

GEOTECHNICAL CONSULTANT:	JACA & SIERRA
REPORT NUMBER:	9736
REPORT DATE:	MAY 19, 2025
SYSTEM TYPE:	DEEP FOUNDATIONS
VOID FORM DEPTH:	N/A
MOISTURE RETARDER:	15 MIL VAPOR BARRIER UNDER ALL SLABS

2. THE CONTRACTOR MUST READ THE GEOTECHNICAL INVESTIGATION REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. ALL SUBGRADE PREPARATION AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE STRUCTURAL DOCUMENTS AND THE GEOTECHNICAL REPORT, AND SHALL BE OBSERVED, TESTED, AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH FOUNDATION CONSTRUCTION.

FOOTINGS

1. FOOTING DESIGNS ARE BASED UPON THE INFORMATION LISTED BELOW. REFER TO PLANS AND DETAILS FOR FOOTING DIMENSIONS AND REINFORCEMENT.

   ALLOWABLE BEARING PRESSURE:
   FOOTING BEARING DEPTH:
2. FOOTING CONSTRUCTION AND CONCRETING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT. FILL FOOTING EXCAVATIONS WITH CONCRETE AS SOON AS PRACTICAL, BUT NO LONGER THAN 12 HOURS AFTER THE START OF EXCAVATION. IF THE BEARING SOILS ARE SOFTENED BY SURFACE WATER ABSORPTION OR EXPOSURE TO THE ENVIRONMENT, CONTACT THE GEOTECHNICAL ENGINEER REGARDING RECOMMENDATIONS FOR RE-WORKING BEARING MATERIAL BENEATH FOOTINGS.
3. ALL FOOTINGS SHALL BE INSPECTED BY A REPRESENTATIVE OF A QUALIFIED GEOTECHNICAL LABORATORY IN ORDER TO INSURE THAT THE PROPER BEARING MATERIAL IS PRESENT BENEATH THE FOOTINGS AND HAS BEEN PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT.
4. TEMPLATE SHALL BE UTILIZED TO SET DOWELS AND ANCHOR BOLTS IN FOOTINGS. DETAILS OF THE TEMPLATES SHALL BE PROVIDED IN THE FOOTING SHOP DRAWINGS.
5. THE EARTHWORK CONTRACT SHALL CONTAIN PROVISIONS FOR PENETRATION OR REMOVAL OF HARD ROCK AND OBSTRUCTIONS.
6. UTILITIES SHALL NOT BE LOCATED BELOW FOOTINGS AND SLEEVES ARE NOT PERMITTED THROUGH FOOTINGS.
7. FOOTING THICKNESS INDICATED IN THESE DRAWINGS ARE THE MINIMUM THICKNESSES REQUIRED FOR STRUCTURAL PERFORMANCE. IF ANY COLUMN ANCHOR BOLTS EXTEND WITHIN 3" OF BOTTOM OF FOOTING, THE CONTRACTOR SHALL LOWER THE BOTTOM OF FOOTING AS REQUIRED TO MAINTAIN 3" OF CONCRETE BELOW THE ANCHOR BOLTS.
8. THE CONTRACTOR SHALL VERIFY THAT NO UTILITIES ARE LOCATED WITHIN FOOTINGS UNLESS SPECIFICALLY DETAILED IN THESE DRAWINGS.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI STANDARD "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318).
2. MAINTAIN SCHEDULED STRUCTURAL DEPTH OF MEMBERS AS A MINIMUM WHILE FOLLOWING SLOPES AND GRADES SHOWN ON PLANS.
3. ALL CONCRETE THAT WILL BE COLORED OR STAINED MUST BE WET CURED.
4. ALL CONSTRUCTION JOINTS IN BEAMS, JOISTS, SLABS, AND WALLS SHALL BE PROVIDED WITH SHEAR KEYS AS SHOWN IN DETAILS. SUBMIT LOCATIONS OF ALL CONSTRUCTION JOINTS TO ENGINEER FOR REVIEW.
5. HOT WEATHER CONCRETING SHALL CONFORM TO ACI 305 AND COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306.
6. FOUNDATION WALLS (INCLUDING LOADING DOCKS AND ELEVATOR PITS) SHALL HAVE TEMPORARY BRACING BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED BY FLOOR DIAPHRAGMS (SLAB-ON-GROUND OR STRUCTURED SLAB) THAT HAVE REACHED AT LEAST 75% OF DESIGN STRENGTH, UNLESS NOTED OTHERWISE.
7. GRADE BEAM DIMENSIONS AND/OR LOCATIONS MAY NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
8. FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
9. PROVIDE WATERSTOPS AT ALL BELOW GRADE CONSTRUCTION JOINTS IN CONCRETE ELEMENTS WHERE THERE IS EARTH SUBGRADE AT THE JOINT ON ONE SIDE OF THE CONCRETE MEMBER AND INTERIOR SPACE ON THE OTHER, REGARDLESS OF WHETHER THE WATERSTOP IS SPECIFICALLY INDICATED IN THE DETAIL. PROVIDE WATERSTOPS AT OTHER LOCATIONS INDICATED IN THE DOCUMENTS PRIOR TO CONSTRUCTION.
10. NO CONDUIT, SLEEVE, OR PIPE IS PERMITTED TO BE EMBEDDED IN THE CONCRETE WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OR UNLESS SPECIFICALLY DETAILED OTHERWISE. ALL CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL COMPLY WITH THE SPACING AND SIZE REQUIREMENTS OF ACI 318.
11. REFER TO THE GEOTECHNICAL REPORT FOR RISK OF GROUNDWATER PRESENCE AND ITS POTENTIAL IMPACT ON NEW CONSTRUCTION. CONTRACTOR MUST CARRY AN APPROPRIATE ALLOWANCE IN THE BIDS FOR THE MEASURES SUCH AS SITE DEWATERING AND PIER CASINGS, ETC.

CONCRETE MIX

1. ALL CONCRETE SHALL BE LABORATORY DESIGNED AND CONTROLLED AND SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318). SAND AND COARSE AGGREGATES SHALL MEET THE REQUIREMENTS OF ASTM C-33 OR C-330. PORTLAND CEMENT SHALL BE TYPE I OR II AND SHALL MEET THE REQUIREMENTS OF ASTM C-150. IN ADDITION, CONCRETE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

USAGE	28-DAY STRENGTH (PSI)	SLUMP (IN.)	MAX. AGG. SIZE (IN.)
GRADE BEAMS	4,000	3-5	1"
SLAB-ON-GROUND	3,000	3-5	3/4"

2. CONCRETE PROPORTIONS SHALL BE ESTABLISHED FROM CONCRETE COMPRESSIVE STRENGTH TEST RECORDS FROM THE FACILITY THAT WILL SUPPLY CONCRETE FOR THIS PROJECT. TEST RECORDS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF ACI 318 AND THE SPECIFICATIONS AND SHALL BE REFLECTIVE OF THE PERIOD OF THE YEAR DURING WHICH THE CONCRETE IS TO BE PLACED. CHANGING MATERIAL PROPORTION, PROPERTIES, SOURCES, COMBINATIONS, ADDITIONS OR ANYTHING WHICH IS A CHANGE IN THE APPROVED MIX DESIGN REQUIRES A NEW MIX DESIGN SUBMITTAL.
3. SLUMP AT THE POINT OF PLACEMENT SHALL NOT EXCEED AMOUNT SPECIFIED. DO NOT PLACE CONCRETE WITH SLUMP AND TEMPERATURE OUTSIDE THE LIMITS PROVIDE ON THE APPROVED MIX DESIGNS. USE OF CHLORIDES IN ANY ADMIXTURE IS NOT PERMITTED. SLUMP RANGE DOES NOT APPLY TO SUPERPLASTICIZED CONCRETE.
4. FLY ASH SHALL NOT BE USED AS A CONSTITUENT IN ARCHITECTURALLY EXPOSED CONCRETE. FLY ASH IS ALLOWED IN ALL OTHER NON-ARCHITECTURALLY EXPOSED CONCRETE. FLY ASH SHALL MEET ASTM C618 CLASS C OR F REQUIREMENTS. THE WEIGHT OF THE FLY ASH SHALL BE ADDED TO THE WEIGHT OF THE CEMENT IN THE CALCULATION OF WATER CEMENT RATIO. THE CONTRACTOR SHALL CONFIRM IN THE MIX DESIGN SUBMITTAL THAT THE USE OF FLY ASH WILL NOT INTERFERE WITH THE PERFORMANCE OF OTHER PRODUCTS AND MATERIALS THAT WILL BE IN CONTACT WITH THE CONCRETE.
5. AIR ENTRAINMENT IN NORMAL WEIGHT CONCRETE IS REQUIRED ONLY IN CONCRETE PERMANENTLY EXPOSED TO WEATHER CONDITIONS. AIR ENTRAINMENT IS REQUIRED FOR ALL EXPOSURE CONDITIONS FOR LIGHTWEIGHT CONCRETE. PERCENT AIR ENTRAINMENT SHALL BE 6% PLUS/MINUS 1.5%. DO NOT AIR-ENTRAIN INTERIOR FLOOR SLABS THAT RECEIVE HAND TROWEL FINISH OR POLISHED CONCRETE.
6. NON CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE SLABS PLACED AT AMBIENT TEMPERATURES BELOW 50 DEGREES FAHRENHEIT AT CONTRACTOR'S OPTION.
7. THE COMPRESSIVE STRENGTH OF GROUT BELOW BASE PLATES SHALL BE AT LEAST 7500 PSI.
8. CONTRACTOR MUST SUBMIT THE MIX DESIGN SUBMITTALS TO THE PROJECTS TESTING LABORATORY PRIOR TO SUBMITTING TO THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
9. CISTERN BOTTOM SLAB AND WALLS MUST CONTAIN CRYSTALLINE WATERPROOFING ADMIXTURE (XYPEX = BASIS OF DESIGN PRODUCT) AND SHRINKAGE INHIBITING ADMIXTURE (SRA).

REINFORCING STEEL

1. ALL CONCRETE REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
2. REINFORCING STEEL THAT REQUIRES WELDING SHALL CONFORM TO ASTM A706, WITH GRADES AS SHOWN ABOVE.
3. ALL REINFORCING BARS SHALL BE LAPPED 40 BAR DIAMETERS (2'-0" MINIMUM) AT SPLICES UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. DEVIATIONS IN SPLICE LOCATIONS AND LENGTHS ARE NOT ALLOWED UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. ALL LAPS IN WELDED WIRE FABRIC SHALL BE ONE MESH PLUS TWO INCHES.
5. CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI 315 AND ACI 318.
6. LAP SPLICES OF CONTINUOUS BEAM REINFORCEMENT SHALL BE MADE AT MIDSPAN FOR TOP BARS AND AT SUPPORTS FOR BOTTOM BARS.
7. PROVIDE CORNER BARS AT INTERSECTIONS OF WALLS, GRADE BEAMS AND STRIP FOOTINGS IN ACCORDANCE WITH THE TYPICAL DETAILS. BARS THAT HOOK AT DISCONTINUOUS ENDS SHALL HAVE THE HOOK PLACED HORIZONTALLY AT EXTERIOR CORNERS IN LIEU OF CORNER BARS.
8. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS NOTED BELOW. REFER TO ACI 318 SECTION 20.6 FOR CONDITIONS NOT NOTED:

CONDITION	PROTECTION
SLAB-ON-GROUND	MID-SLAB
GRADE BEAMS & WALLS	2 IN. FORMED SIDES 3 IN. BACKFILLED SIDES

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHAPES AND PL

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METAL DECK

1. REFER TO DRAWINGS FOR DECK TYPES, THICKNESS AND ATTACHMENT PATTERNS.
2. ALL STEEL DECK SHALL COMPLY WITH STEEL DECK INSTITUTE (SDI) SPECIFICATIONS.
3. THE METAL DECK IS REQUIRED TO ACT AS A DIAPHRAGM. REFER TO THE DIAPHRAGM FASTENER DIAGRAM AND/OR SCHEDULE FOR REQUIRED ATTACHMENT PATTERN.
4. ALL METAL DECKING SHALL BE GALVANIZED WITH G60 COATING CONFORMING TO ASTM 924.
5. COORDINATE METAL DECK LENGTH WITH THE FINAL JOIST AND BEAM LAYOUT, THE FINAL JOIST AND BEAM LAYOUT CAN BE DIFFERENT THAN THAT SHOWN IN THE CONTRACT DRAWINGS DEPENDING ON WHETHER THE JOIST BEARING SEATS ARE BUTTED OR LAPPED. THE JOIST LOCATIONS SHOWN IN THE CONTRACT DRAWINGS DO NOT ACCOUNT FOR THE SMALL DIFFERENCE IN JOIST LOCATION DUE TO THE VARIOUS JOIST BEARING CONDITIONS THAT COULD EXIST IN THE FIELD.
6. SHEET STEEL FOR DECK AND ACCESSORIES SHALL CONFORM TO ASTM A653-94 STRUCTURAL QUALITY WITH A YIELD STRENGTH OF 33 KSI.
7. STEEL DECK ATTACHMENTS INDICATED IN THE DRAWINGS ARE THE MINIMUM REQUIRED FOR DIAPHRAGM DESIGN. DECK SUPPLIER SHALL COORDINATE WITH THE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS SUCH AS FACTORY MUTUAL (FM) OR UNDERWRITERS LABORATORY (UL) REQUIREMENTS.
8. THE METAL DECK IS DESIGNED TO BE CONTINUOUS OVER THREE OR MORE SPANS. THE METAL DECK SUPPLIER SHALL ADJUST THE THICKNESS OR GAUGE OF THE DECK AT LOCATIONS WHERE SINGLE OR DOUBLE SPAN CONDITIONS ARE PROVIDED. DECK SHALL BE DESIGNED TO PROVIDE EQUIVALENT OR GREATER LOAD CAPACITY AS THE SPECIFIED DECK SUPPORTED OVER THREE CONTINUOUS SPANS.
9. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY DECKS WITHOUT CONCRETE TOPPING.

CONCRETE MASONRY UNITS

1. THE MASONRY DESIGN HAS BEEN BASED ON A PRISM STRENGTH, f'm = 2,500 psi (TYP, U.N.O.) AND f'm = 2,000 psi (TYP AT INTERIOR PARTITIONS).
2. HOLLOW CONCRETE MASONRY UNITS SHALL MEET ASTM C90, NORMAL WEIGHT, MINIMUM COMPRESSIVE STRENGTH OF 3,000 psi ON THE NET AREA OF THE BLOCK.
3. CMU MORTAR SHALL MEET ASTM C270. PROVIDE TYPE N MORTAR FOR INTERIOR PARTITIONS ONLY, TYPE S FOR ABOVE-GRADE EXTERIOR WALLS AND TYPE M FOR BELOW GRADE WALLS.
4. CMU GROUT SHALL MEET ASTM C476 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH THAT MEETS OR EXCEEDS f'm AT 28 DAYS (2,000 psi MINIMUM). AGGREGATE SIZE SHALL NOT EXCEED 1/2 INCH.
5. HORIZONTAL JOINT REINFORCEMENT SHALL CONFORM TO ASTM A951.
6. REINFORCE CMU WALLS AND PROVIDE FOUNDATION DOWELS PER DETAILS. LAP VERTICAL BARS PER MASONRY LAP SCHEDULE UNLESS NOTED OTHERWISE. LAP HORIZONTAL JOINT REINFORCEMENT MIN. 12 INCHES AND PROVIDE CORNER AND TEE PIECES.
7. PLACE REINFORCEMENT PRIOR TO GROUTING, AND SECURE VERTICAL REINFORCEMENT WITH POSITIONERS.
8. GROUT VERTICAL CELLS, BOND BEAMS AND LINTELS AS DETAILED.
9. LOCATE VERTICAL CONTROL JOINTS IN CMU WALLS AT MAX. 20 ft. ON CENTER (COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR LOCATIONS). DISCONTINUE HORIZONTAL JOINT REINFORCEMENT AND BOND BEAM REINFORCEMENT AT CONTROL JOINTS. DO NOT DISCONTINUE LINTEL REINFORCING.

Revisions / Submission

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
U.S. VIRGIN ISLANDS
11/14/2025

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

Salas O'Brien
salasobrien.com
New Orleans
541 Julia St., Suite 200
New Orleans, LA 70130

Registration: F-4111
Project No: 2250-00216

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

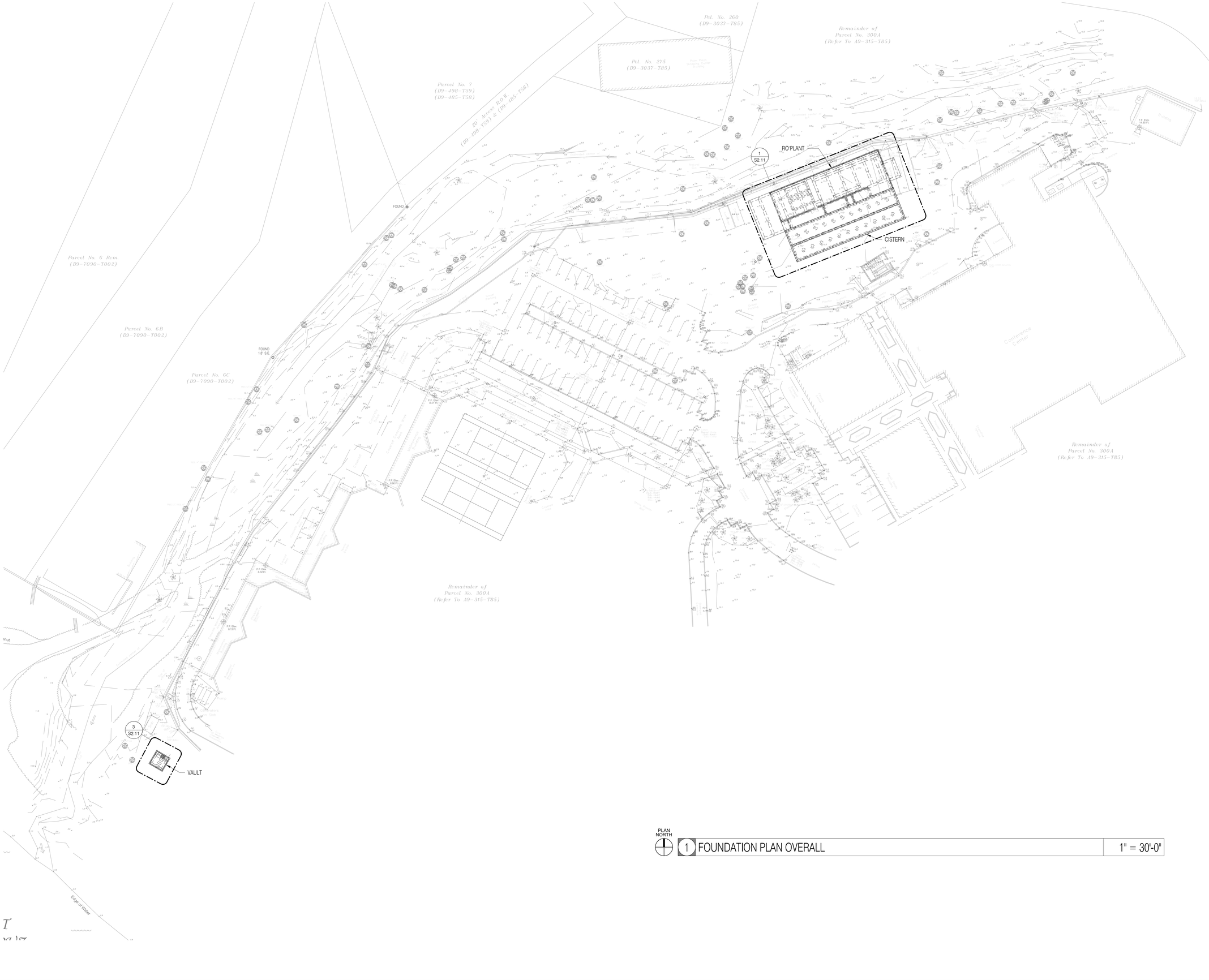
Project Number:	24032.05
Date:	11/14/2025
Project Engineer:	BC

STRUCTURAL INFORMATION

S1.11

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PLAN NORTH

1 FOUNDATION PLAN OVERALL 1" = 30'-0"

Revisions / Submission

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston, TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

Salas O'Brien
salasobrien.com
New Orleans
541 Julia St., Suite 200
New Orleans, LA 70130

Registration: F-4111
Project No: 2250-00216

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

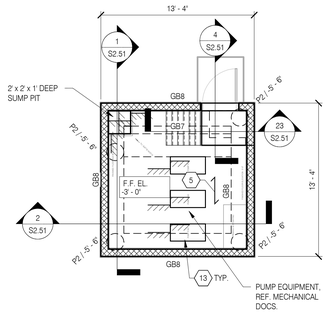
Project Number:	24032.05
Date:	11/14/2025
Project Engineer:	BC

FOUNDATION PLAN OVERALL

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NOTE:
1. TOP OF GB ELEVATION AT THE VAULT = -3'-8" U.N.O.

3 VAULT FOUNDATION PLAN — 3/16" = 1'-0"

GRADE BEAM SCHEDULE

MARK	WIDTH	DEPTH	REINFORCEMENT			NOTES
			TOP & BOTTOM	MID.	STIRRUPS	
GB1	24"	18"	4-#6	N/A	#3 @ 6" O.C.	
GB2	24"	18"	5-#7 TOP / 4-#6 BOTT.	N/A	#3 @ 6" O.C.	
GB3	24"	42"	5-#7 TOP / 4-#6 BOTT.	#5 EA. FACE	#3 @ 12" O.C.	
GB4	24"	18"	5-#6	N/A	#3 @ 6" O.C.	
GB5	24"	18"	4-#6	N/A	(8) #3 @ 6" O.C. AT SUPPORTS, REST @ 12" O.C.	
GB6	24"	18"	4-#6 TOP / 5-#7 BOTT.	#5 EA. FACE	(10) #3 @ 6" O.C. AT SUPPORTS, REST @ 12" O.C.	
GB7	24"	18"	3-#6	N/A	#3 @ 12" O.C.	
GB8	24"	30"	4-#6	N/A	#3 @ 12" O.C.	

EQUIPMENT SCHEDULE

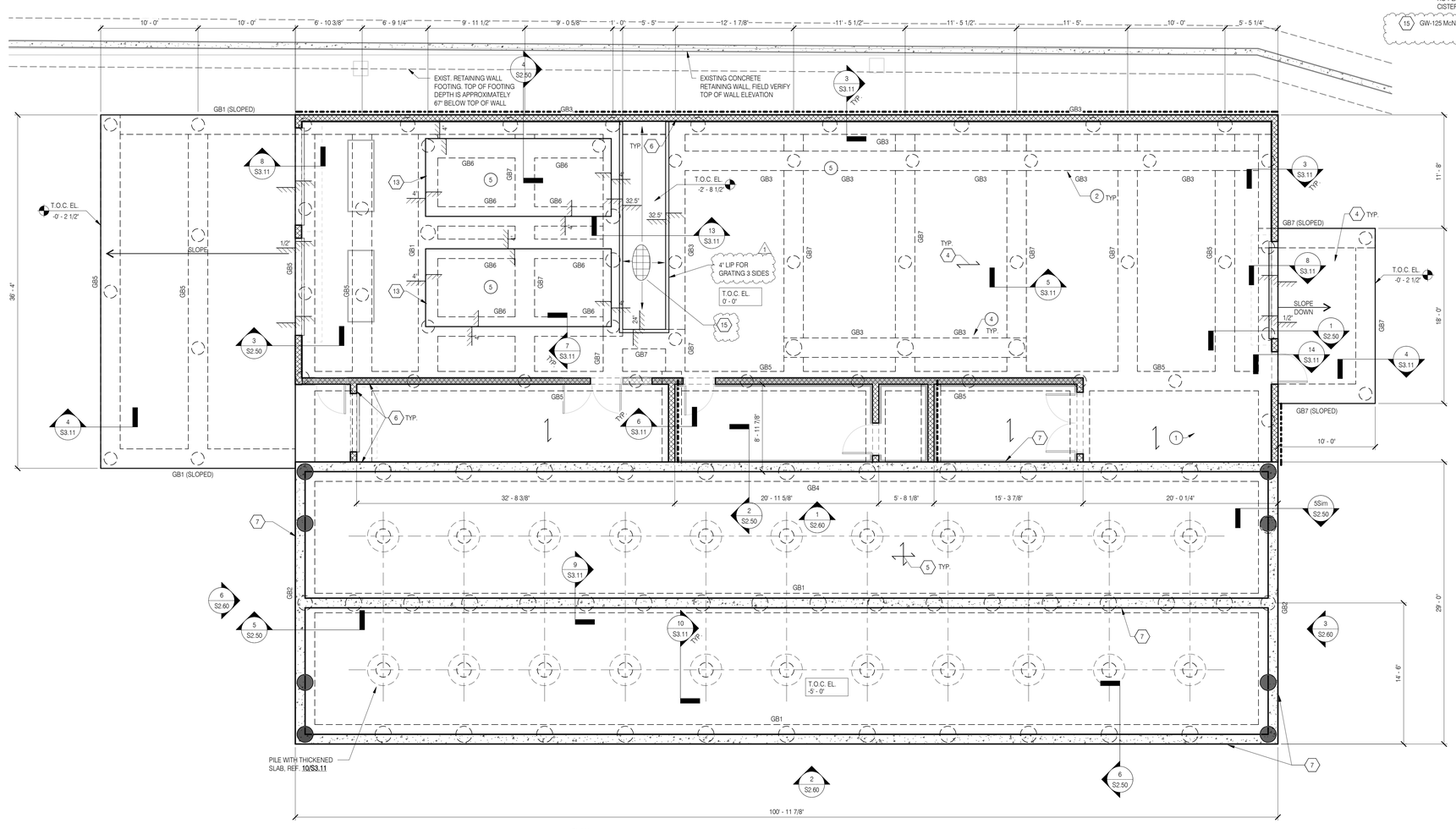
MARK	UNIT	WEIGHT (LBS)
1	P-71A - C	300
2	T-20A - G	15000
3	T-60	8400
4	T-50A - D	15000
5	RO-41A & B	24000
6	P-10A - C	500

SYMBOL LEGEND

- 8" CMU LOADBEARING WALL
- 8" CMU NON-LOADBEARING WALL
- CMU SHEARWALL, REF. SCHED.
- CAST-IN-PLACE CONCRETE WALL
- PRECAST CONCRETE SPUN PILE
- SLAB PILE, REF. 10/S3.11
- TENSION PILE, REF. 12/S3.11

PLAN NOTES

1. FINISHED FLOOR ELEVATION = T.O. CONCRETE SLAB = 0' - 0" = EL. 14.6' UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS FOR DATUM ELEVATION.
2. COORDINATE ALL WORK THIS SHEET WITH THE STRUCTURAL NOTES ON SHEET S1 SERIES AND WITH THE PROJECT SPECIFICATIONS.
3. REFER TO SHEET S3 SERIES FOR FOUNDATION DETAILS.
4. CONCRETE FLOOR SLAB OVER MOISTURE RETARDER PER GENERAL NOTES OVER IMPORTED AND IMPROVED SUBGRADE PER THE GEOTECHNICAL REPORT.
   - SLAB THICKNESS: 6 inches
   - CONCRETE SPECIFICATION: REFER TO 10/S1.10 AND SPECIFICATIONS
   - SLAB REINFORCEMENT: #4 @ 9' BOTT. & #5 @ 9' TOP IN THE PLAN E/W DIR., #4 @ 16' O.C. BOTT. IN THE PLAN N/S DIR. (TEMP STEEL) LAPPED AT SPLICES REF. DETAIL 4A/S3.10
   - SAWCUT CONTROL JOINTS: REFER TO DETAIL 5/S3.10
5. CONCRETE FLOOR SLAB OVER MOISTURE RETARDER PER GENERAL NOTES OVER IMPORTED AND IMPROVED SUBGRADE PER THE GEOTECHNICAL REPORT.
   - SLAB THICKNESS: 7 inches
   - CONCRETE SPECIFICATION: REFER TO 10/S1.10 AND SPECIFICATIONS
   - SLAB REINFORCEMENT: #5 @ 6' O.C. EACH WAY TOP AND BOTTOM, LAPPED AT SPLICES REF. DETAIL
   - SAWCUT CONTROL JOINTS: DO NOT PROVIDE AT THE CISTERN TOP AND BOTTOM SLABS
6. 8" CMU WALL, REF. S4.10 FOR REINF. AND TYP. DETAILS
7. 12" CONCRETE WALL TYP. REINF. W/ #6 VERT @ 12" O.C. EA. FACE AND #5 HORIZ. @ 12" O.C. EA. FACE. SEE ELEVATIONS FOR ADDITIONAL INFORMATION
8. COORDINATE O.H. DOOR LOCATIONS AND OPENING WIDTHS WITH ARCH. DOCS.
9. COORDINATE TRENCH LOCS. AND DEPTH WITH ARCH DOCS AND EQUIPMENT MFR
10. FINAL EQUIPMENT WEIGHTS TO BE PROVIDED TO THE ARCHITECT PRIOR TO ISSUING CONCRETE RESTEEL SHOP DRAWINGS
11. REFER TO S4.10 FOR CMU LINTEL INFORMATION
12. CISTERN BOTTOM SLAB AND WALLS MUST CONTAIN CRYSTALLINE WATERPROOFING ADMIXTURE (XYPEX = BASIS OF DESIGN) AND SHRINKAGE INHIBITING ADMIXTURE (SRA).
13. HOUSEKEEPING PAD. REF DETAILS FOR REINFORCEMENT. ALL HK PADS DIMENSIONS AND ELEVATIONS MUST BE COORDINATED WITH TSG DRAWINGS
14. TOP OF GRADE BEAM ELEVATIONS:
    RO PLANT = 0'-8" BELOW TOP OF SLAB U.N.O.
    CISTERN = TOP OF SLAB
15. GW-125 MCNICHOLS GALV BAR GRATING OVER TRENCH (BASIS OF DESIGN)



PLAN NORTH

1 RO PLANT & CISTERN FOUNDATION PLAN — 3/16" = 1'-0"

1	ASI-006.1-WSJ	12-12-2025

Revisions / Submission

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
STATE OF LOUISIANA
11/14/2025

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
3701 Kirby Drive, Suite 830
Houston, TX 77098
tel 832.947.1038
935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

Salas O'Brien
salasobrien.com
New Orleans
541 Julia St., Suite 200
New Orleans, LA 70130
Registration: F-4111
Project No: 2250-00216

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NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
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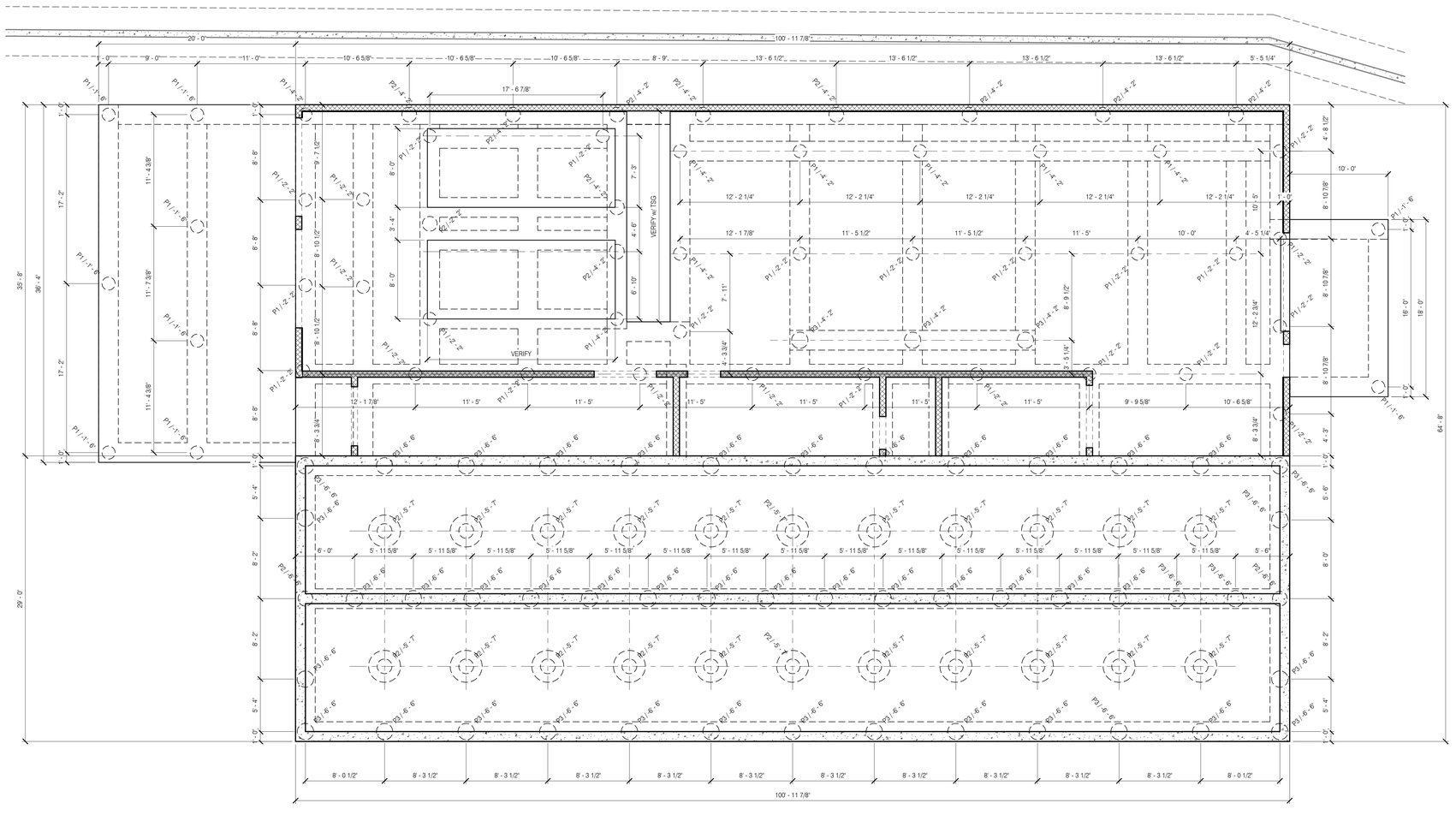
Project Number:	24032.05
Date:	11/14/2025
Project Engineer:	BC

FOUNDATION PLANS

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PLAN NORTH

21 RO PLANT & CISTERN SLAB & PILING PLAN — 3/16" = 1'-0"

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
STATE OF LOUISIANA
11/14/2025

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

Salas O'Brien
salasobrien.com
New Orleans
541 Julia St., Suite 200
New Orleans, LA 70130

Registration: F-4111
Project No: 2250-00216

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

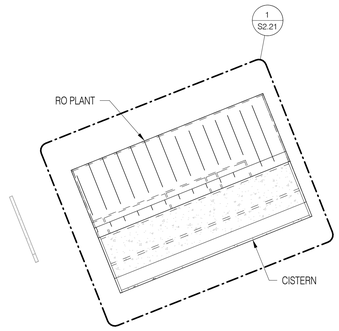
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Date:	11/14/2025
Project Engineer:	BC

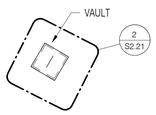
SLAB & PILING PLAN

S2.12

Autodesk Docs://24032_MVW Westin St John CAPEX Projects_r24/Westin St John CAPEX Projects_STRUCTURE_R24.rvt

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PLAN NORTH

1 ROOF FRAMING PLAN OVERALL 1" = 30'-0"

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
U.S. VIRGIN ISLANDS
11/14/2025

Coleman Partners ARCHITECTS
eparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

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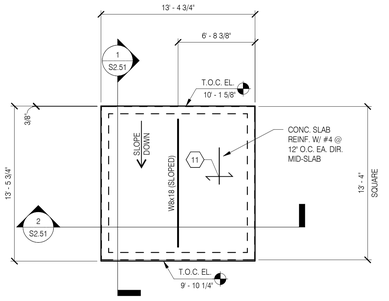
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300 CHOCOLATE HOLE
ST. JOHN, USVI

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Project Engineer:	BC

ROOF FRAMING PLAN OVERALL

S2.20

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2 VAULT ROOF FRAMING PLAN — 3/16" = 1'-0"

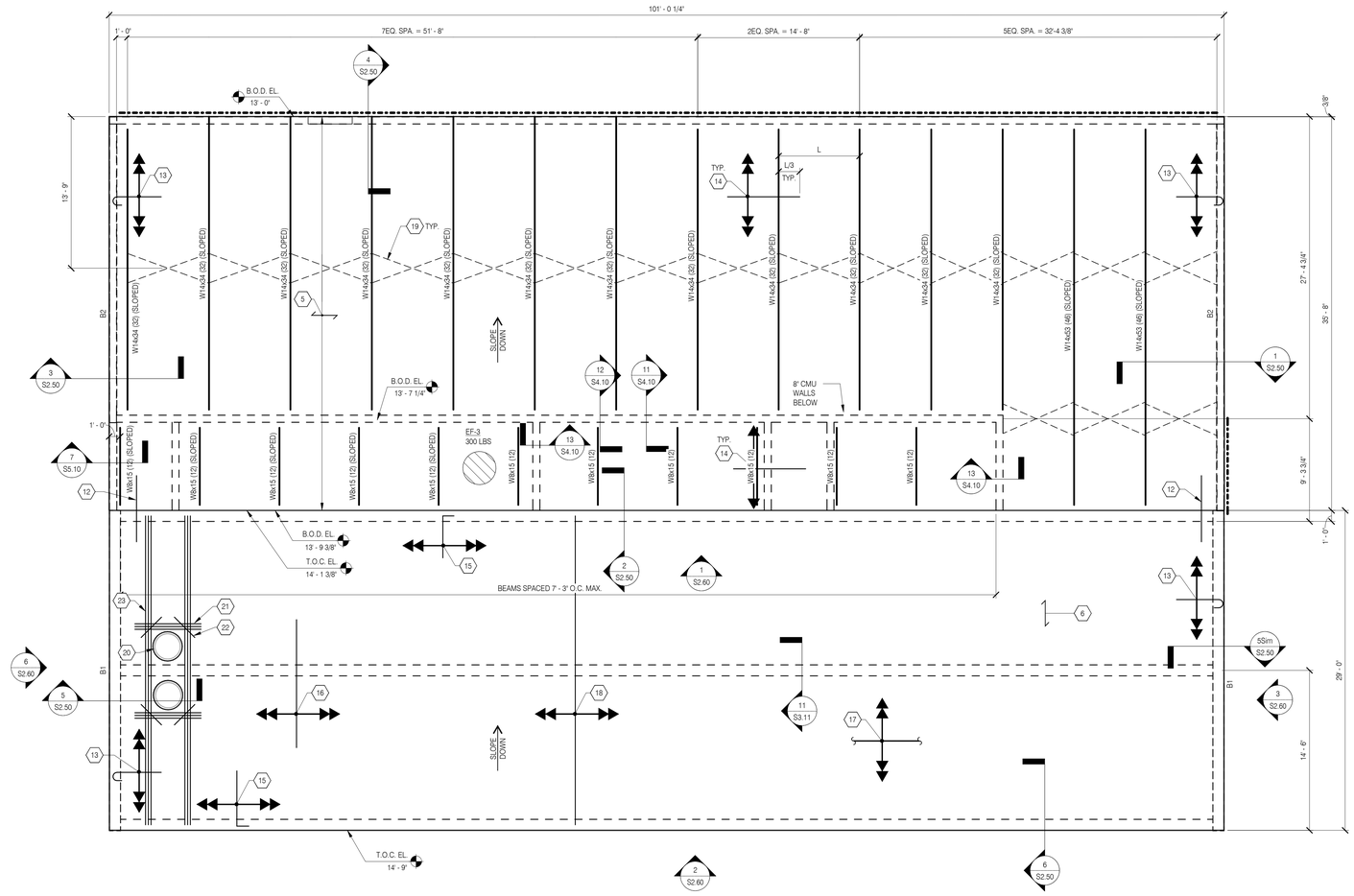
2021 IBC COMPONENTS AND CLADDING DESIGN PRESSURE (PSF)												
ZONE/EWA (FT2)	ZONE 1 (ROOF FIELD)		ZONE 1' (ROOF FIELD)		ZONE 2 (ROOF EDGE)		ZONE 3 (ROOF CORNER)		ZONE 4 (WALL FIELD)		ZONE 5 (WALL EDGE)	
≤ 10	29	-104	29	-104	29	-140	29	-195	72	-78	72	-96
20	23	-103	25	-103	25	-128	25	-172	69	-76	69	-90
50	23	-99	23	-99	23	-109	23	-143	65	-71	65	-82
100	23	-98	23	-98	23	-98	23	-122	60	-67	60	-75
200	23	-82	23	-82	23	-84	23	-98	59	-66	59	-69
≥ 500	23	-61	23	-61	23	-67	23	-67	54	-60	54	-60

NOTES
1. EWA IS EFFECTIVE WIND AREA OF A STRUCTURAL COMPONENT.
2. FOR ZONE DEFINITION, REF. ASCE 7-22 FIGURES 30.3-1 AND 30.3-2A.
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD ANY AWAY FROM THE SURFACE, RESPECTIVELY.
4. REFER TO ARCH. DOCUMENTS FOR FACTORY MANUAL RATED SYSTEM REQUIREMENTS.
5. WIND PRESSURE ARE ULTIMATE STRENGTH LEVEL. ZONE WIDTH 'a' = 3' - 11"

ELEVATED BEAM SCHEDULE							
			REINFORCEMENT				
MARK	WIDTH	DEPTH	TOP BARS	BOTTOM BARS	MID. BARS	STIRRUPS	NOTES
B1	12"	16"	2-#5	2-#5	N/A	N/A	
B2	8"	16"	2-#5	2-#5	N/A	N/A	

SYMBOL LEGEND

- 8" CMU LOADBEARING WALL
- 8" CMU NON-LOADBEARING WALL
- CMU SHEARWALL, REF. SCHED.
- CAST-IN-PLACE CONCRETE WALL
- PRECAST CONCRETE SPUN PILE
- SLAB PILE, REF. 10/S3.11
- TENSION PILE, REF. 12/S3.11



PLAN NORTH

1 RO PLANT & CISTERN ROOF FRAMING PLAN — 3/16" = 1'-0"

PLAN NOTES

1. T.O. STEEL ELEVATIONS REF. PLAN. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS FOR DATUM ELEVATION.
2. COORDINATE ALL WORK THIS SHEET WITH THE STRUCTURAL NOTES ON SHEET S1.10 AND WITH THE PROJECT SPECIFICATIONS.
3. REFER TO THE S600 SERIES SHEETS FOR FRAMING DETAILS.
4. REFER TO FOUNDATION PLANS FOR COLUMN & BASEPLATE SIZES.
5. COMPOSITE DECK: REF. SHEET S690 FOR TYPICAL COMPOSITE DETAILS & STUD PLACEMENT INFORMATION.
   DECK:
   CONCRETE THICKNESS: 2 1/2" NW CONCRETE ON
   DECK TYPE: 1 1/2", 20 GA. COMPOSITE DECK (GALV.)
   TOTAL THICKNESS: 4"
   REINFORCING: 6x6 W1.4 x W1.4 WELDED WIRE MESH THROUGHOUT SLAB. REF. S5.10 FOR ADD'L REINF.
   ATTACH STEEL TO SUPPORTS w/ THE FOLLOWING:
   FASTENERS: HILTI X-ENP-19-L-15 PAF
   FASTENER PATTERN: 36/7
   SIDELAP: HILTI SLC SIDELAP SCREWS @ 12" O.C.
6. CISTERN CONCRETE ROOF SLAB
   SLAB THICKNESS: 7 INCHES
   CONCRETE SPECIFICATION: REFER TO 10/S1.10 AND SPECIFICATIONS
   SLAB REINFORCEMENT: REF. PLAN FOR REINF.
7. JOIST BRIDGING PER JOIST SUPPLIER IS NOT SHOWN FOR CLARITY.
8. ALL STRUCTURAL STEEL TO BE HOT DIP GALVANIZED AFTER FABRICATION
9. TOP OF CMU = UNDERSIDE OF METAL DECK U.N.O.
10. CISTERN BOTTOM SLAB AND WALLS MUST CONTAIN CRYSTALLINE WATERPROOFING ADMIXTURE (XYPEX = BASIS OF DESIGN) AND SHRINKAGE INHIBITING ADMIXTURE (SRA).
    VAULT ROOM CONCRETE SLAB AND WALLS TO ALSO INCLUDE THESE ADMIXTURES
11. VAULT CONCRETE ROOF SLAB:
    SLAB THICKNESS: 5 INCHES
    CONCRETE SPECIFICATION: REFER TO 10/S1.10 AND SPECIFICATIONS
    SLAB REINFORCEMENT: REF. PLAN FOR REINF.
12. #4 DOWEL x 6 - 0" LONG @ 12" O.C CENTERED ON JOINT BETWEEN BUILDINGS
13. #3 (4' - 0") @ 12" O.C., TOP AT SLAB EDGE W/ 180 DEG HOOK
14. #3 @ 12" O.C., TOP OVER ALL SUPPORTS
15. #4 (5' - 0") @ 12" O.C., TOP
16. #4 (9' - 6") @ 12" O.C., TOP
17. #4 @ 12" O.C. CONT. TEMP STEEL BOTTOM
18. #4 @ 12" O.C. CONT. BOTTOM
19. ANGLE BRIDGING PER 4/S5.10
20. CISTERN ACCESS HATCH, REF. CIVIL DOCS
21. PROVIDE (3) #4 TOP AND BOTTOM 3" O.C. ABOVE AND BELOW OPENING. EXTEND BARS 2' BEYOND OPENING
22. PROVIDE #4 X 4'-0" DIAG. BARS EA. CORNER OF OPENING
23. PROVIDE (3) #4 TOP AND BOTTOM LONGITUDINAL BARS 3" O.C. BOTH SIDES OF OPENING

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-IB
VIRGIN ISLANDS
11/14/2025

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
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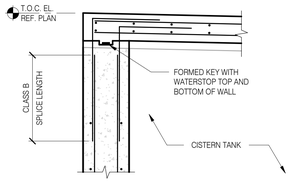
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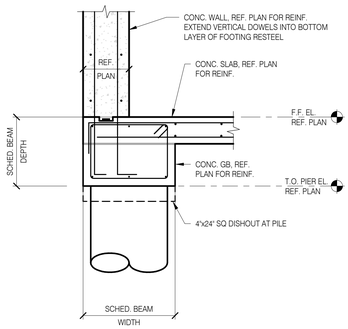
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ROOF FRAMING PLANS

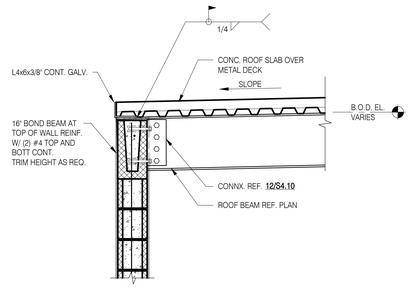
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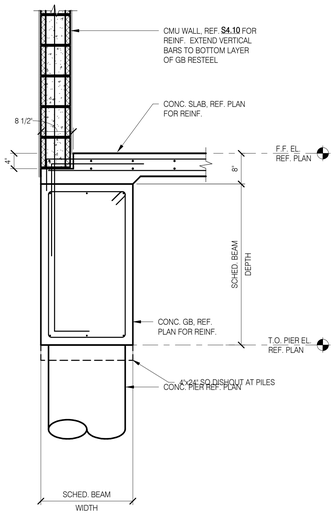
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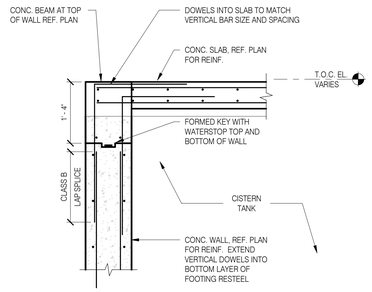


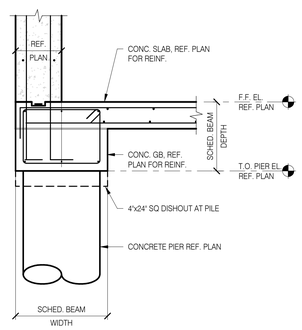
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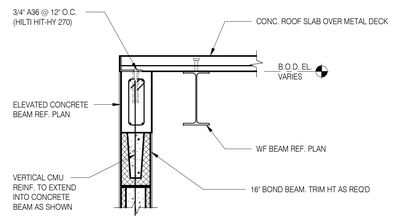


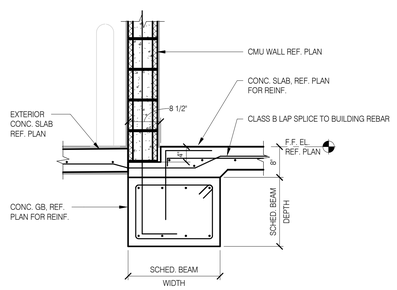
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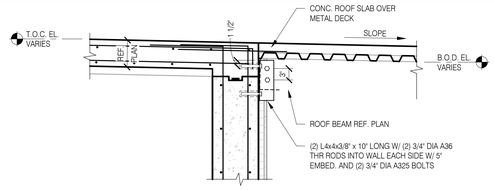


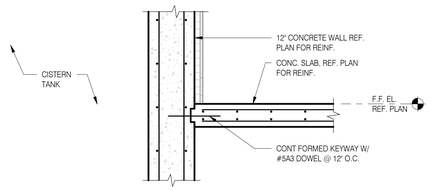
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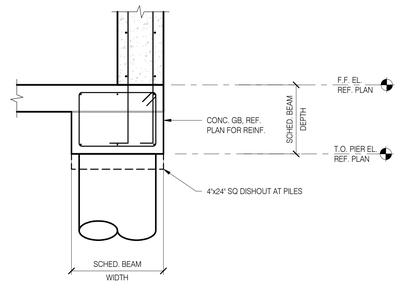




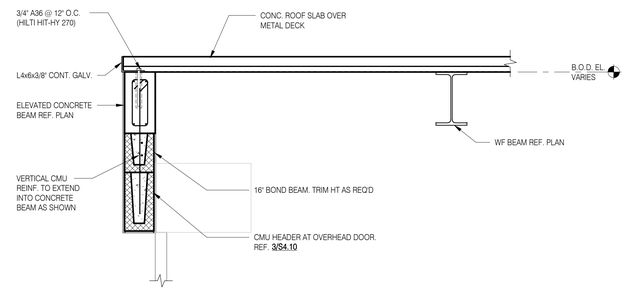
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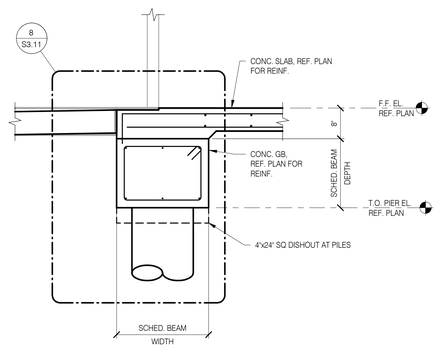






2 PERIMETER SECTION AT RO PLANT 3/4" = 1'-0"





1 PERIMETER SECTION AT RO PLANT 3/4" = 1'-0"

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

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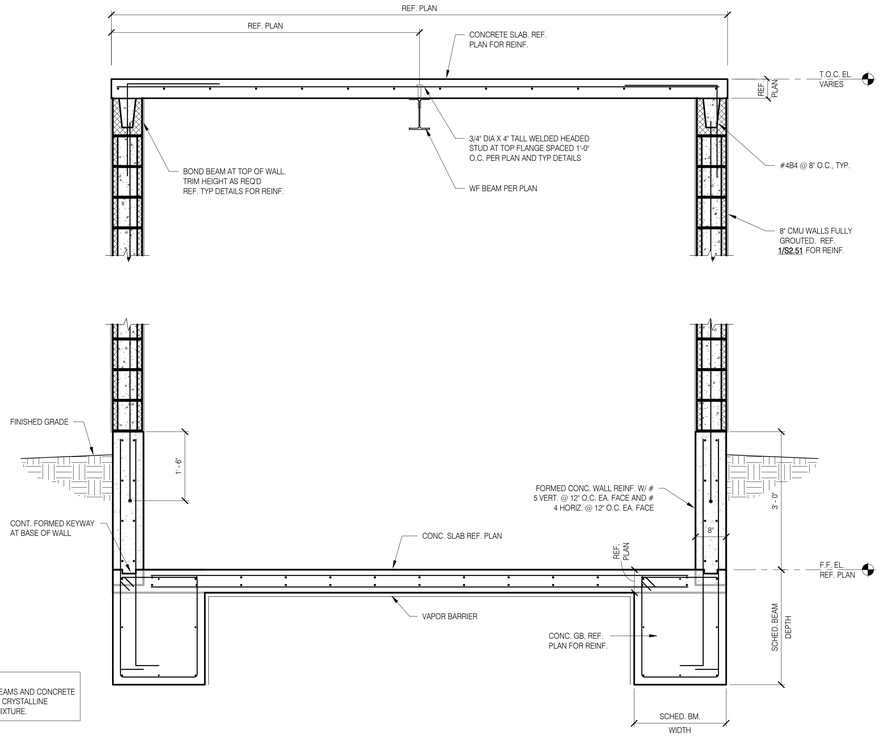
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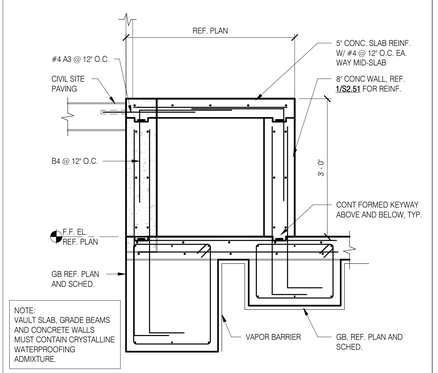
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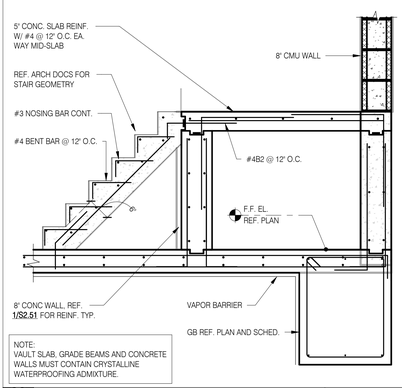
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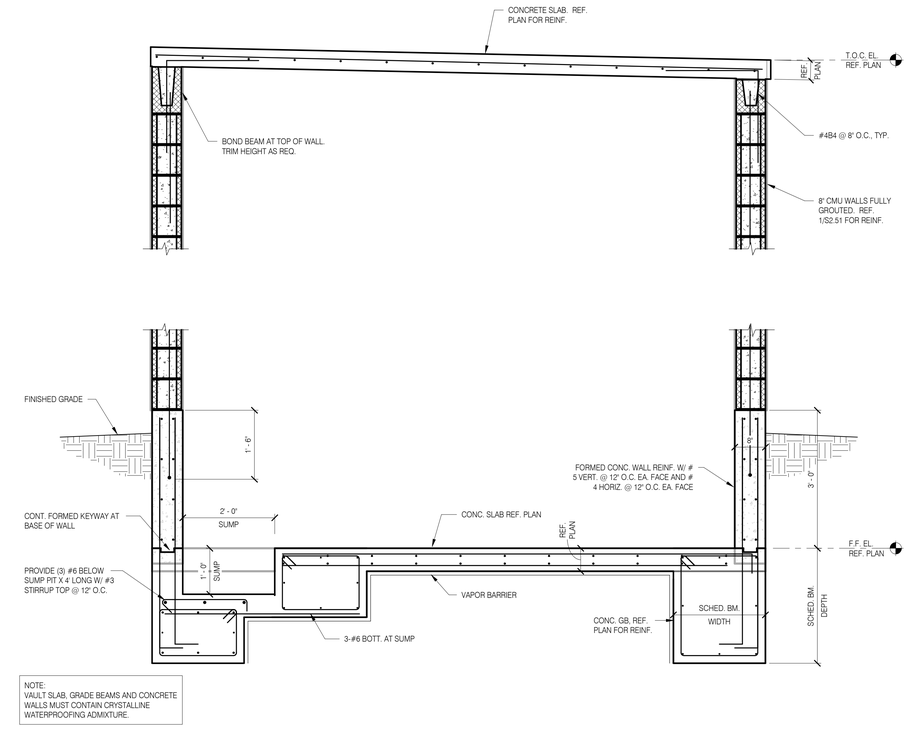
2 VAULT SECTION — 3/4" = 1'-0"



4 SECTION AT VAULT LANDING — 3/4" = 1'-0"



23 SECTION AT VAULT STAIRS — 3/4" = 1'-0"



1 VAULT SECTION — 3/4" = 1'-0"

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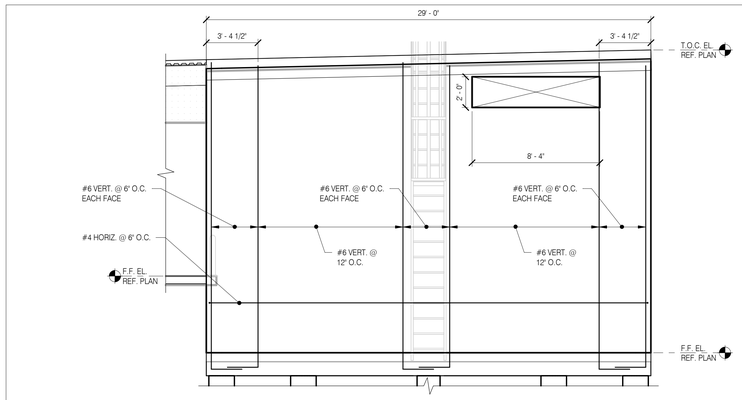
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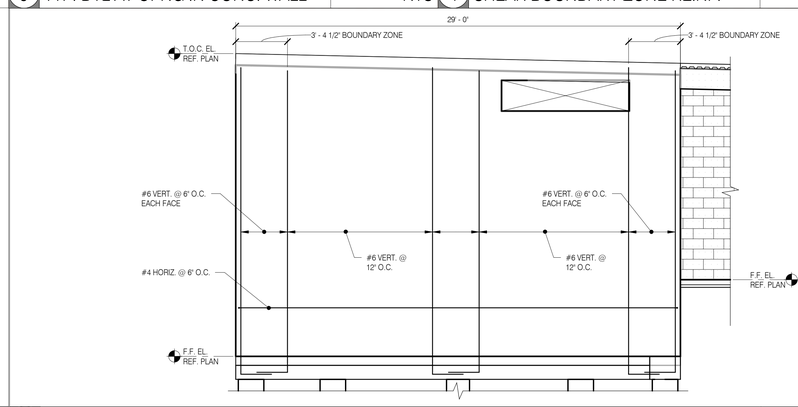
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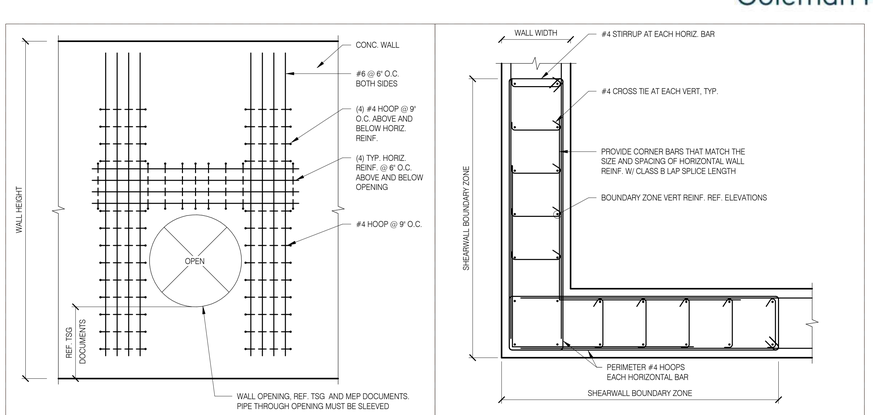
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6 CISTERN WEST SHEARWALL ELEVATION — 1/4" = 1'-0"

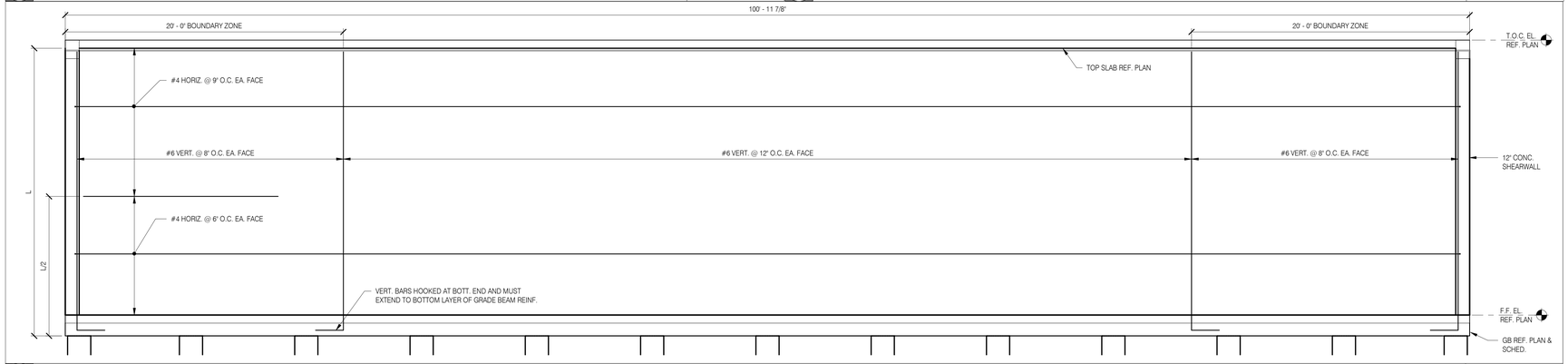


3 CISTERN EAST SHEARWALL ELEVATION — 1/4" = 1'-0"

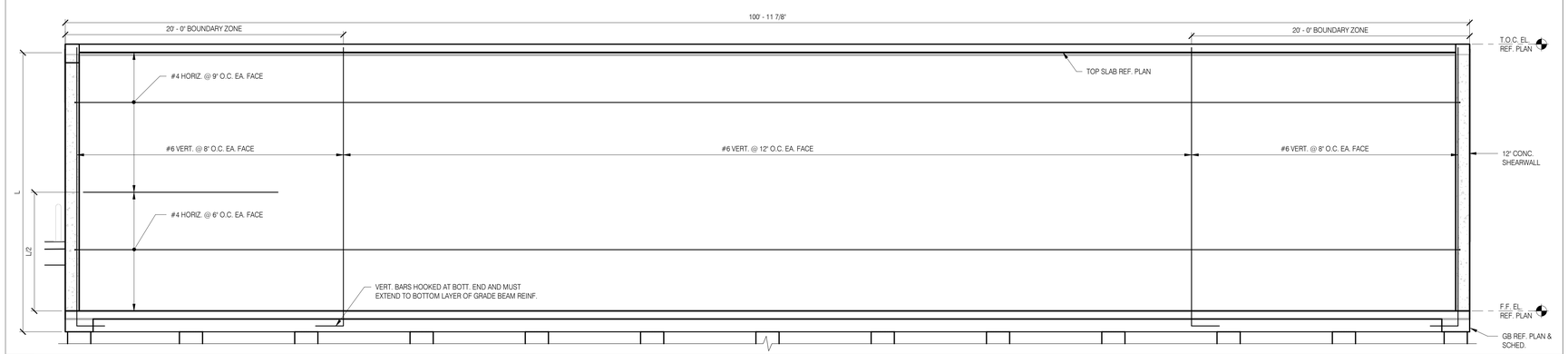


5 TYP. DTL AT OPNG IN CONC. WALL — NTS

4 SHEAR BOUNDARY ZONE REINF. — NTS



2 CISTERN SOUTH — 1/4" = 1'-0"



1 CISTERN NORTH SHERAWALL ELEVATION — 1/4" = 1'-0"

Autodesk Docs://24032_MVW Westin St John CAPEX Projects_24/Westin St John CAPEX Projects_STRUCTURE_R24.rvt

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Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038
935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

Salas O'Brien
salasobrien.com
New Orleans
541 Julia St., Suite 200
New Orleans, LA 70130
Registration: F-4111
Project No: 2250-00216

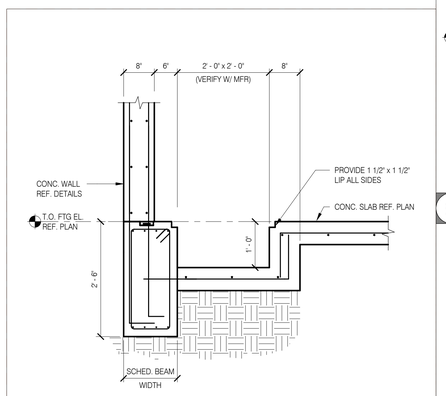
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Project Engineer:	BC

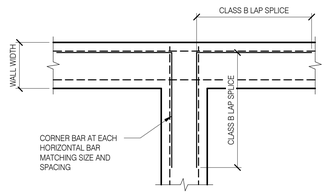
BUILDING ELEVATIONS

S2.60

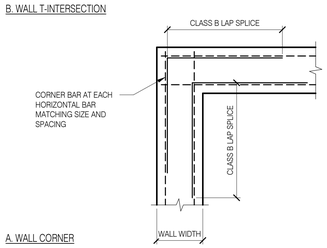
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11 SECTION AT VAULT SUMP PIT — NTS

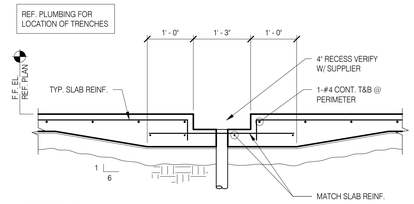


B. WALL T-INTERSECTION

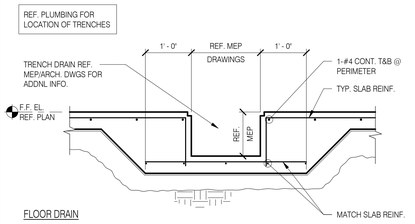


A. WALL CORNER

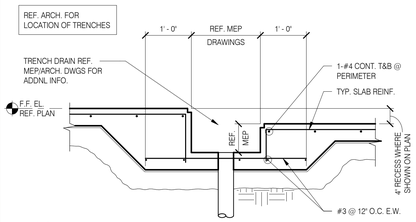
10 TYP. CONC. WALL REINF. DETAIL — NTS



RECESS @ URINAL



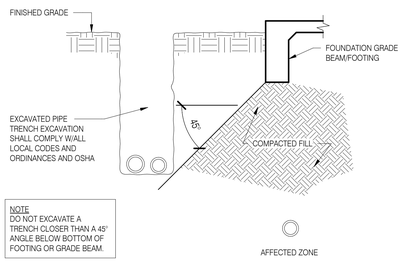
FLOOR DRAIN



TRENCH DRAIN

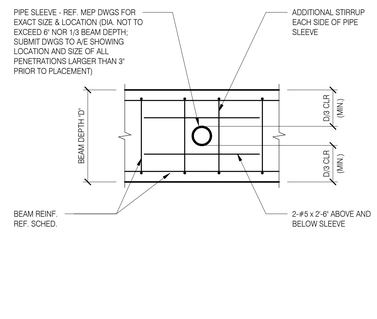
9 TYPICAL S.O.G. DRAIN DETAILS — NTS

NOTE
ALL PLUMBING LINES, IN THE AFFECTED ZONE & MORE THAN 3'-0" BELOW THE BOTTOM OF FOOTING, SHALL BE PLACED BEFORE COMPACTING THE SUBGRADE. THE FOOTINGS/GRADE BEAMS SHALL BE PLACED LATER. G.C. TO NOTIFY STRUCTURAL ENGINEER OF ANY PIPES IN THE AFFECTED ZONE OF THE FOUNDATION & WITHIN 3'-0" BELOW THE BOTTOM OF FOUNDATION.

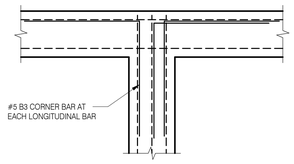


NOTE
DO NOT EXCAVATE A TRENCH CLOSER THAN A 45° ANGLE BELOW BOTTOM OF FOOTING OR GRADE BEAM.

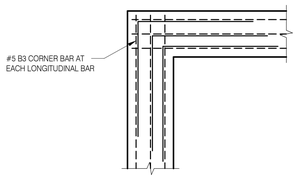
8 TRENCH PARALLEL TO FDN — NTS



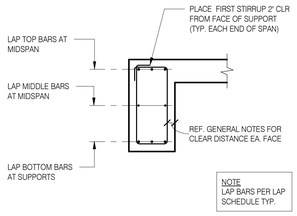
7 TYP. HORIZ. GR. BM PENETRATION — NTS



C. GRADE BEAM INTERSECTION

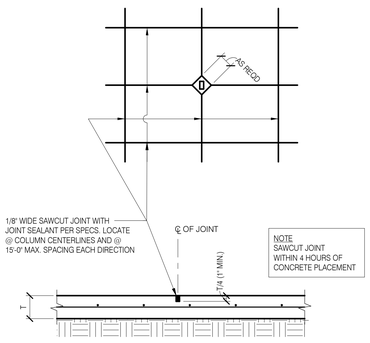


B. GRADE BEAM CORNER

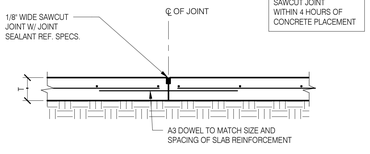


A. TYPICAL SECTION

6 TYP. GRADE BEAM REINF. DETAIL — NTS



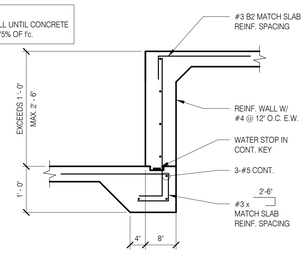
B. TYPICAL CONTROL JOINT



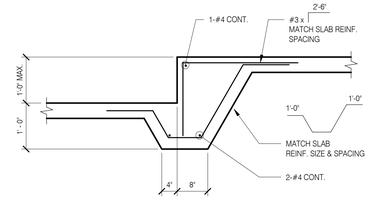
A. TYPICAL CONSTRUCTION JOINT

5 SLAB ON GROUND JOINTS — NTS

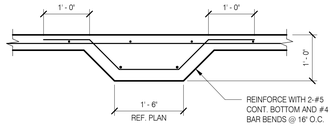
NOTE
BRACE WALL UNTIL CONCRETE REACHES 75% OF f'c.



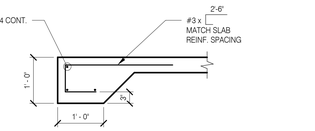
G. TYPICAL SLAB DROP - BTWN 1'-0" AND 5'-0"



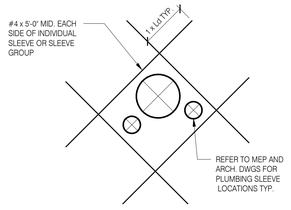
F. TYPICAL SLAB DROP - 1'-0" OR LESS



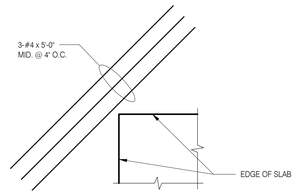
E. TYPICAL THICKENED SLAB



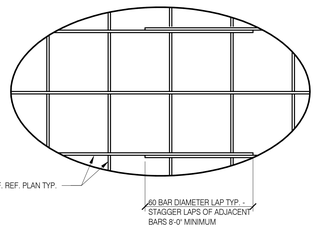
D. TYPICAL THICKENED SLAB EDGE



C. TYPICAL REINFORCEMENT AT SLAB PENETRATIONS



B. TYPICAL REINF. AT RE-ENTRANT CORNERS

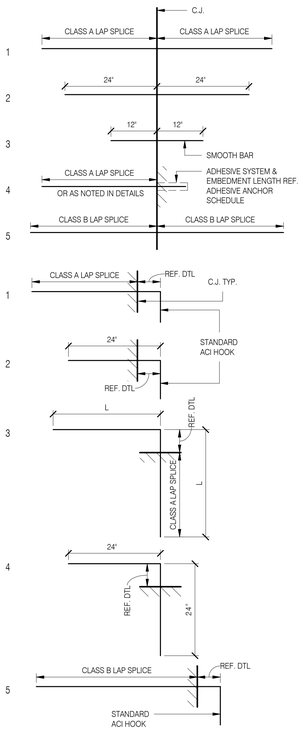


A. TYPICAL REINFORCEMENT

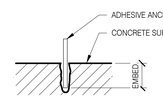
4 TYP. SLAB-ON-GROUND DETAILS — NTS

NOTATION





3 REBAR DOWEL SCHEDULE — NTS



ADHESIVE ANCHORS	
DIAMETER SIZE	EMBEDMENT
3/8"	3 1/2"
1/2"	4 1/2"
5/8"	5 5/8"
3/4"	6 3/4"
7/8"	7 7/8"
1"	9"

ADHESIVE DOWELS	
REBAR SIZE	EMBEDMENT
#3	3 3/8"
#4	4 1/2"
#5	5 5/8"
#6	6 3/4"
#7	7 7/8"
#8	9"

NOTES
1. ADHESIVE TO BE ONE OF THE FOLLOWING PRODUCTS:
   - HILTI HIT - HY 200 SAFE SET
   - SIMPSON SET - 3G
2. ANCHOR RODS SHALL BE ONE OF FOLLOWING:
   - FOR HILTI SYSTEM: HILTI HAS RODS OR HIT-Z RODS
   - FOR SIMPSON SYSTEM: A36 THREADED RODS
3. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
4. EMBEDMENTS SHOWN ARE TYPICAL FOR EACH ANCHOR SIZE U.N.O.
5. SPECIAL INSPECTIONS ARE REQUIRED FOR ADHESIVE ANCHORS.

2 ADH. ANCHOR & DWL SCHEDULE — NTS

fc	SPLICE CLASS	BAR SIZE								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
psi	fy	60ksi	60ksi	60ksi	60ksi	60ksi	60ksi	60ksi	60ksi	60ksi
3000	CLASS A 1.0 Ld	17	22	28	33	48	55	62	70	78
	CLASS B 1.3 Ld	22	29	36	43	63	72	81	91	101
4000	CLASS A 1.0 Ld	15	19	24	29	42	48	54	61	67
	CLASS B 1.3 Ld	19	25	31	37	54	62	70	79	87
5000	CLASS A 1.0 Ld	13	17	22	26	38	43	48	54	60
	CLASS B 1.3 Ld	17	23	28	34	49	56	63	71	78
6000	CLASS A 1.0 Ld	12	16	20	24	34	39	44	50	55
	CLASS B 1.3 Ld	16	21	26	31	45	51	57	64	71
7000	CLASS A 1.0 Ld	12	15	18	22	32	36	41	46	51
	CLASS B 1.3 Ld	14	19	24	28	41	47	53	60	66

NOTES
1. TENSION DEVELOPMENT LENGTH = Ld. LENGTHS LISTED IN TABLE ARE IN INCHES.
2. USE THE ABOVE DEVELOPMENT LENGTH AND LAP SPLICE TABLE FOR BEAMS, JOISTS, COLUMNS, WALLS, SLABS, ETC. WHEN THE CLEAR SPACE BETWEEN BARS IS GREATER THAN OR EQUAL TO TWO BAR DIAMETERS AND CLEAR COVER IS NOT LESS THAN ONE BAR DIAMETER.
3. WHEN THE CLEAR SPACE BETWEEN BARS IS LESS THAN TWO BAR DIAMETERS, MULTIPLY DEVELOPMENT AND SPLICE LENGTHS LISTED IN TABLE BY 1.50.
4. PROVIDE LAP SPLICE LENGTH BASED ON THE LARGER BAR BEING LAPPED WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED.
5. FOR TOP BARS, MULTIPLY THE DEVELOPMENT AND SPLICE LENGTHS BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

1 TENSION LAP SPLICE SCHEDULE — NTS

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REGISTERED ENGINEER
BRADLEY CARVILLE 0-67914-1B
VIRGIN ISLANDS
11/14/2025

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
3701 Kirby Drive, Suite 830
Houston, TX 77098
tel 832.947.1038
935 Gravier Street
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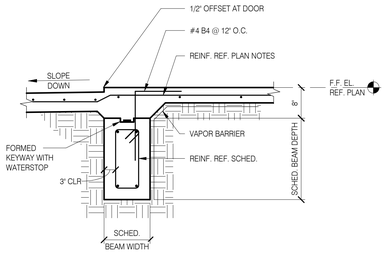
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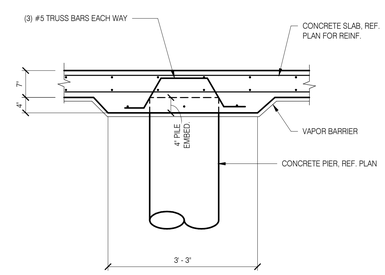
TYPICAL CONCRETE DETAILS

S3.10

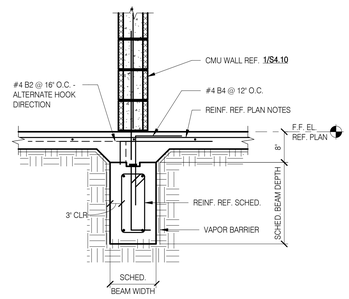
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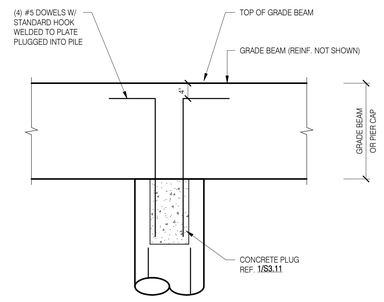
14 GB SECTION AT ENTRY DOOR — NTS



10 TYP. DTL AT DISHOUT AT PIER — NTS

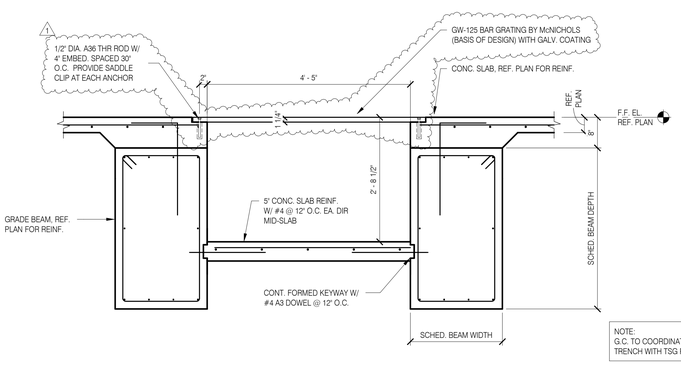


6 TYP. INTER. GRADE BEAM @ CMU — NTS

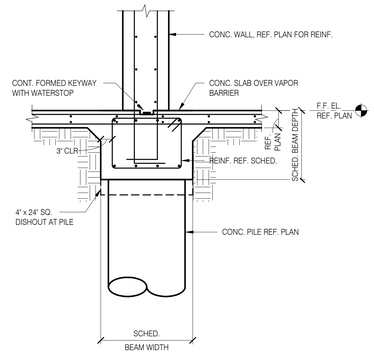


TOP OF PIER AT BEAM / PIER CAP / PILASTER / WALL

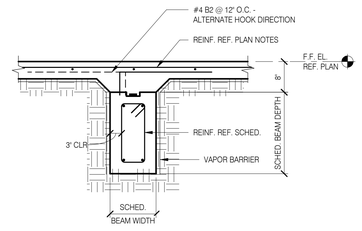
2 TYP. TOP OF PIER DETAIL — 3/4" = 1'-0"



13 SECTION AT TRENCH — 3/4" = 1'-0"



9 SECTION AT CISTERN FDTN — NTS



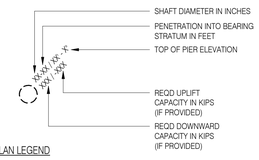
5 TYP. INTERIOR GRADE BEAM — NTS

REF. 2/S3.11 FOR ADDL INFO.

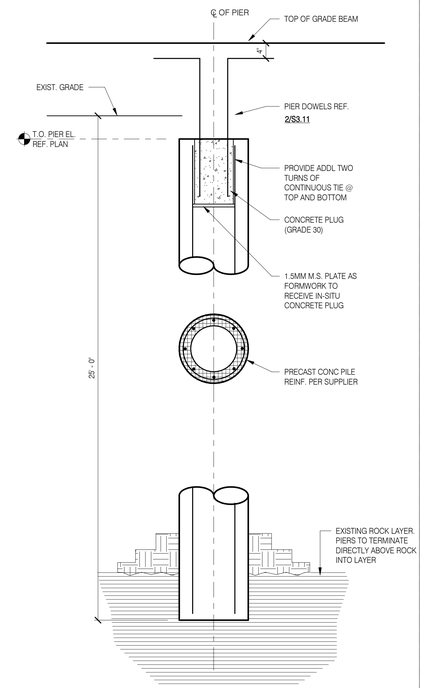
STRAIGHT SHAFT PIER SCHEDULE	
MARK	SHAFT DIA.
P1	16
P2	18
P3	20

NOTES:
1. PRECAST PILE REINF. BY SUPPLIER TO BE DESIGNED FOR ALLOWABLE LOADS.
2. REFER TO TYPICAL DETAILS FOR PILE INFILL REINFORCEMENT

C. STRAIGHT SHAFT PIER SCHEDLE

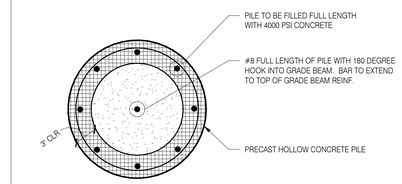


B. PIER PLAN LEGEND

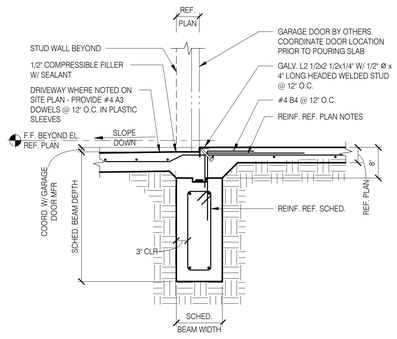


A. SECTION

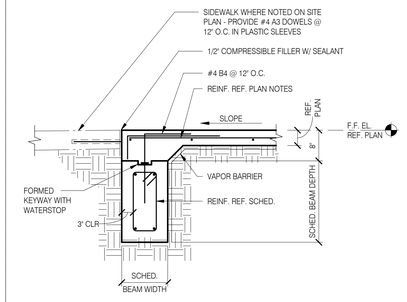
1 TYPICAL DRILLED PIER DETAILS — NTS



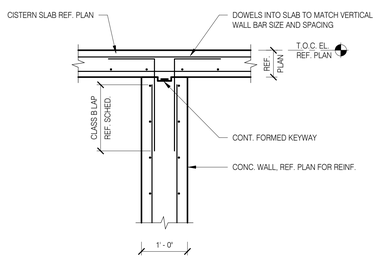
12 TYP. TENSION PILE DTL. — NTS



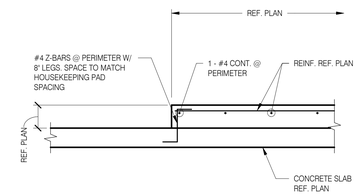
8 ENTRANCE @ OVERHEAD DOOR — NTS



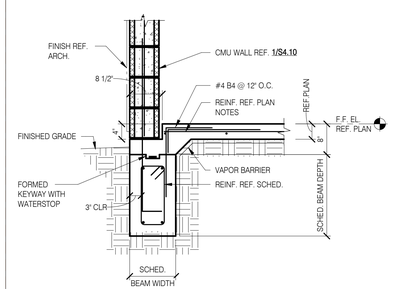
4 GB SECTION AT EDGE OF EXT. SLAB — NTS



11 SECTION AT CISTERN ROOF SLAB — NTS



7 HOUSEKEEPING PAD DETAIL — NTS



3 TYP. PERIM. GRADE BEAM @ CMU — NTS

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
3701 Kirby Drive, Suite 830
Houston, TX 77098
tel 832.947.1038
935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

Salas O'Brien
salasobrien.com
New Orleans
541 Julia St., Suite 200
New Orleans, LA 70130
Registration: F-4111
Project No: 2250-00216

1	ASI-006.1-WSJ	12-12-2025

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
U.S. VIRGIN ISLANDS
11/14/2025

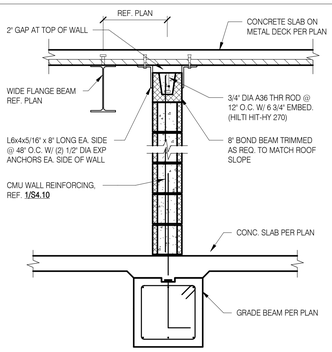
WESTIN ST JOHN RESORT
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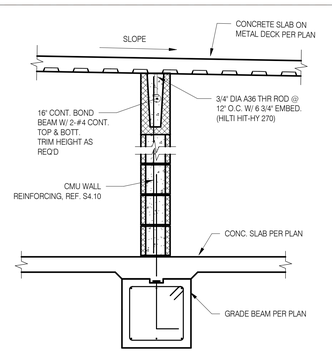
TYPICAL CONCRETE DETAILS

S3.11

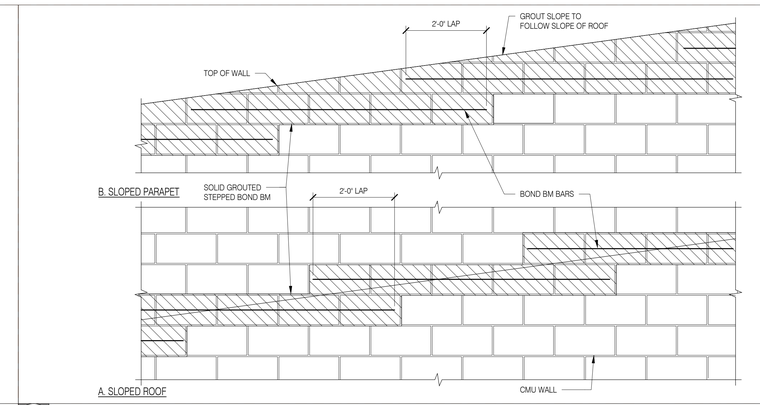
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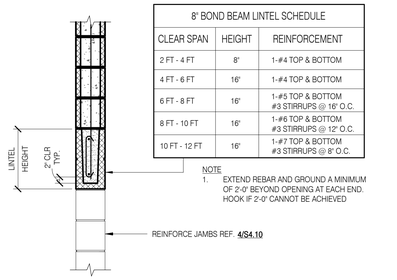
13 TYP. CMU SHEAR WALL AT ROOF DECK - PARALLEL — 3/4" = 1'-0"



11 TYP. CMU SHEAR WALL AT DECK — 3/4" = 1'-0"



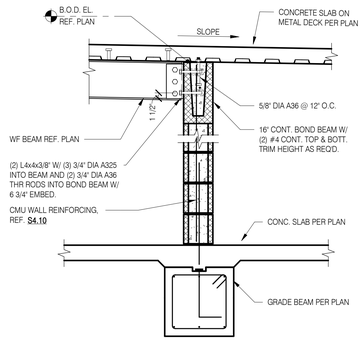
7 TYPICAL BOND BEAM STEP DETAIL — 3/4" = 1'-0"



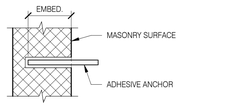
8" BOND BEAM LINTEL SCHEDULE		
CLEAR SPAN	HEIGHT	REINFORCEMENT
2 FT - 4 FT	8"	1-#4 TOP & BOTTOM
4 FT - 6 FT	16"	1-#4 TOP & BOTTOM
6 FT - 8 FT	16"	1-#5 TOP & BOTTOM #3 STIRRUPS @ 16" O.C.
8 FT - 10 FT	16"	1-#6 TOP & BOTTOM #3 STIRRUPS @ 12" O.C.
10 FT - 12 FT	16"	1-#7 TOP & BOTTOM #3 STIRRUPS @ 8" O.C.

NOTE
1. EXTEND REBAR AND GROUND A MINIMUM OF 2'-0" BEYOND OPENING AT EACH END. HOOK IF 2'-0" CANNOT BE ACHIEVED

3 TYP. CMU WALL OPENING — NTS



12 TYPICAL CMU WALL AT WF BEAM — 3/4" = 1'-0"



CMU ANCHORS OR DOWELS	
ANCHOR DIA.	EMBEDMENT
3/8" (OR #3 REBAR)	3 3/8"
1/2" (OR #4 REBAR)	4 1/2"
5/8" (OR #5 REBAR)	5 5/8"
3/4" (OR #6 REBAR)	6 3/4"

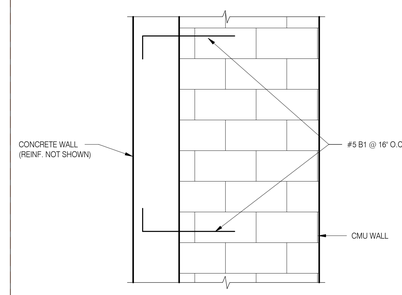
CMU NOTES
-MIN. EDGE DISTANCE = 4"
-MIN. SPACING = 8" (1 PER CELL)
-LOCATE ANCHORS IN SOLID GROUTED CELLS

BRICK ANCHORS	
ANCHOR DIA.	EMBEDMENT
1/4"	8"
5/16"	8"
3/8"	8"
1/2"	8"

BRICK NOTES
-MIN. EDGE DISTANCE = 8"
-MIN. SPACING = 16"
-LOCATE ANCHOR IN THE CENTER OF THE BRICK, NOT INTO MORTAR JOINTS

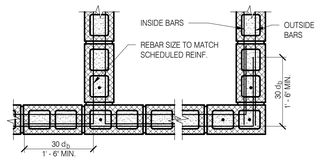
MASONRY ANCHOR NOTES
1. ADHESIVE TO BE HILTI HIT-HY 270.
2. ANCHOR RODS SHALL BE A36 THREADED RODS.
3. REBAR SHALL BE PER GENERAL NOTES.
4. FOLLOW MFR RECOMMENDATIONS FOR INSTALLATION.
5. CONTRACTOR SHALL HIRE A THIRD-PARTY TESTING AGENCY TO PERFORM TENSION AND SHEAR TESTS FOR ANCHORS IN EXIST BRICK TO PROVIDE DESIGN VALUES. TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM E3121/E3121M STANDARD TEST METHODS FOR FIELD TESTING OF ANCHORS IN CONC. OR MASONRY. CONNECTIONS INCLUDED IN THIS SET MAY HAVE TO BE REVISED BASED ON THE TESTING RESULTS

10 MASONRY ADHES. ANCH. SCHED. — 3/4" = 1'-0"



ELEVATION

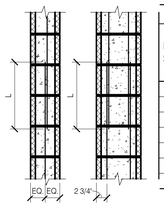
9 TYP. DTL AT CMU AT CONC. WALL — NTS



PLAN AT INTERSECTION PLAN AT CORNER

NOTES
1. PROVIDE CORNER/TEE PIECES FOR JOINT REINF.
2. TYPICAL WALL REINF. NOT SHOWN FOR CLARITY - REF. WALL SCHEDULE FOR SIZE AND SPACING.

6 CMU CORNER DTL AT BOND BM — 3/4" = 1'-0"

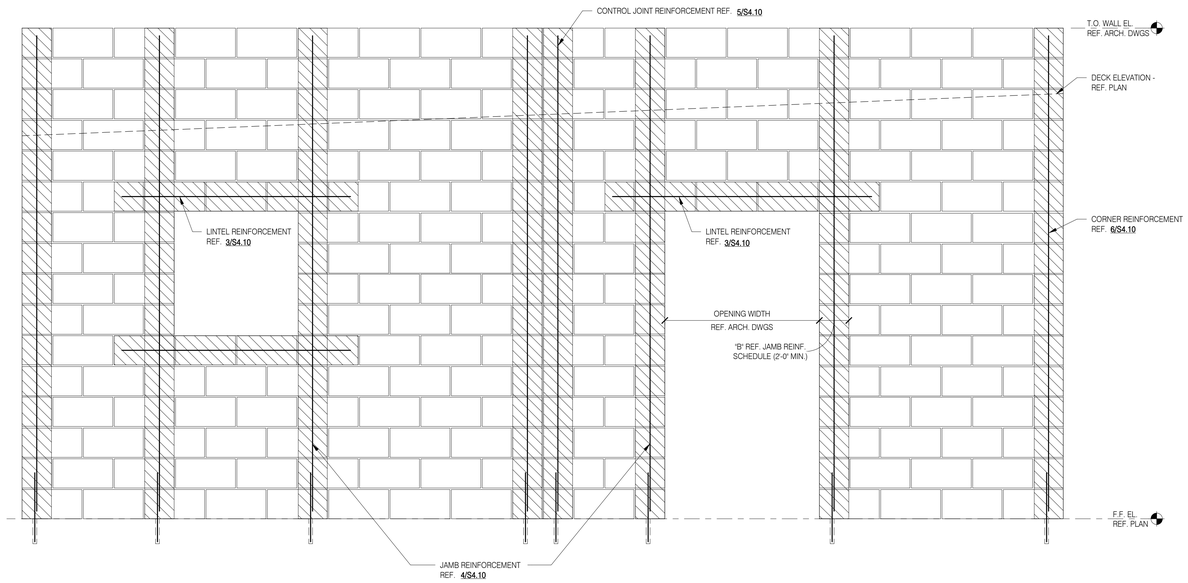


1 VERTICAL BAR 2 VERTICAL BAR

BAR SIZE	LAP LENGTH, "L" NOMINAL CMU WIDTH, "W" 12" 1 BAR	12" 2 BAR	8" 1 BAR	8" 2 BAR	6" 1 BAR	HORZ. 1 OR 2 BAR
#3	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"
#4	1'-1"	1'-6"	1'-1"	1'-6"	1'-6"	2'-6"
#5	1'-8"	2'-4"	1'-8"	2'-4"	2'-4"	3'-10"
#6	3'-2"	4'-6"	3'-2"	4'-6"	4'-5"	NOTE 3
#7	4'-3"	6'-4"	4'-3"	6'-4"		
#8	NOTE 3	NOTE 3	NOTE 3	NOTE 3		
#9						

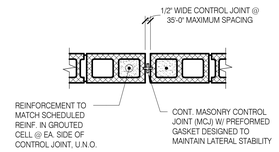
NOTES
1. BARS SHALL BE SPACED W/ "DUR-O-WAL" VERTICAL BAR POSITIONER OR APPROVED EQUAL.
2. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES AT CONTRACTOR'S OPTION.
3. PROVIDE ONE OF THE FOLLOWING MECHANICAL SPLICE OR APPROVED EQUAL:
- ERICO "LENTON" COUPLER SYSTEM
- BARLOCK "S-SERIES" COUPLER SYSTEM
- RICHMOND "US/MC-SAE" COUPLERS SYSTEM

2 MASONRY LAP SCHEDULE — NTS



8 WALL ELEVATION — 3/4" = 1'-0"

NOTES
1. DISCONTINUE JOINT AND BOND BEAM REINF. AT CONTROL JOINTS. DO NOT DISCONTINUE LINTEL REINFORCEMENT.
2. REFER TO ARCHITECTURAL FOR NON-REINFORCED WALL CONTROL JOINTS.



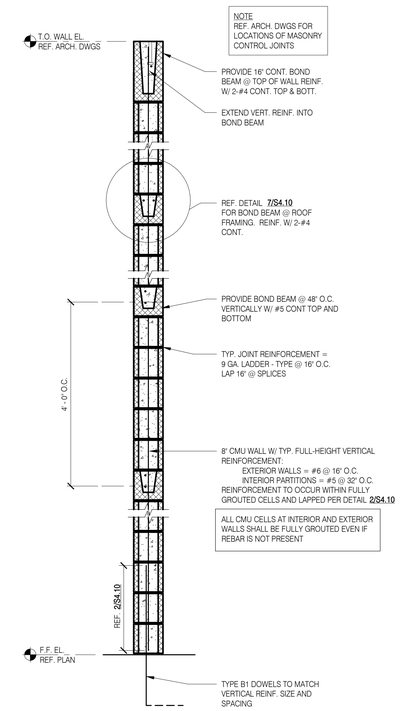
5 TYPICAL CONTROL JOINT — 3/4" = 1'-0"



JAMB REINFORCEMENT SCHEDULE			
REINFORCEMENT AT EDGE OF OPENINGS			
MARK	PLAN OF REINFORCING	B	REINF.
1		8	1-#6
2		16	2-#6
3		24	3-#7
4		16	4-#6
5		24	6-#6

NOTES
1. ALL REINFORCED CELLS SHOWN SHALL BE SOLID GROUTED.
2. ALL 8" CMU WALLS SHALL HAVE JAMB TYPE (1) AT EACH SIDE OF OPENINGS U.N.O. ON PLAN.
3. ALL 12" CMU WALLS SHALL HAVE JAMB TYPE (2) AT EACH SIDE OF OPENINGS U.N.O. ON PLAN.

4 TYP. CMU WALL OPENING JAMBS — NTS



1 TYP. 8" CMU WALL SECTION — 3/4" = 1'-0"

Autodesk Docs://24032_MVW Westin St John CAPEX Projects_24/Westin St John CAPEX Projects_STRUCTURE_R24.rvt

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
STATE OF LOUISIANA
11/14/2025

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
3701 Kirby Drive, Suite 830
Houston, TX 77098
tel 832.947.1038
935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

Salas O'Brien
salasobrien.com
New Orleans
541 Julia St., Suite 200
New Orleans, LA 70130
Registration: F-4111
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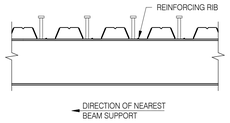
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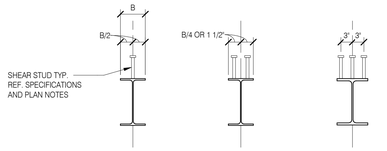
TYPICAL CMU DETAILS

S4.10

11/11/2025 11:31:40 AM



B. SHEAR STUD PLACEMENT IN FLUTES



A. SHEAR STUD PLACEMENT ON BEAMS

COMPOSITE BEAM NOTES

COMPOSITE STEEL BEAMS ARE INDICATED ON THE PLANS THUS:

W16x26 (N or N1,N2,N3,...)
C=XX" R=XXk A=XXk

WHERE: "N" IS THE TOTAL NUMBER OF SHEAR STUDS UNIFORMLY DISTRIBUTED BETWEEN SUPPORTS
"N1,N2,N3,..." IS THE NUMBER OF SHEAR STUDS IN EACH BEAM SEGMENT
"C" IS THE UPWARD BEAM CAMBER IN INCHES
"A" IS THE AXIAL LOAD IN THE BEAM DUE TO WIND OR SEISMIC LOADS IN KIPS
"R" IS THE REACTION AT THE END OF THE BEAM IN KIPS.
IF ONLY ONE IS GIVEN, REACTION IS THE SAME AT EACH END.

STUDS ARE TO BE DISTRIBUTED UNIFORMLY ALONG THE LENGTH OF THE BEAM UNLESS MULTIPLE NUMBERS OF STUDS ARE SPECIFIED FOR A BEAM. IF MULTIPLE NUMBERS ARE SHOWN, DISTRIBUTE EACH QUANTITY OF STUDS UNIFORMLY IN THE RESPECTIVE BEAM SEGMENT.

SHEAR STUD DIAMETER AND LENGTH ARE AS SPECIFIED IN THE PLAN NOTES. ALL SHEAR STUDS SHALL BE FIELD APPLIED IN A STRONG POSITION, AS SHOWN IN "SHEAR STUD PLACEMENT IN FLUTES" DETAIL.

COMPOSITE STEEL BEAMS DO NOT REQUIRE SHORING TO SUPPORT THE WET WEIGHT OF CONCRETE. BEAMS WILL BE STRESSED AS CONCRETE IS PLACED AND MUST BE POSITIVELY BRACED BY THE METAL DECK CONNECTIONS. DO NOT EXCEED SPECIFIED CONCRETE THICKNESS.

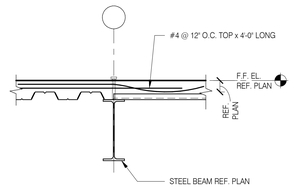
REFER TO "SHEAR STUD PLACEMENT ON BEAMS" DETAIL FOR MINIMUM TRANSVERSE SPACING BETWEEN STUDS. MINIMUM LONGITUDINAL STUD SPACING IS 4 1/2". MAXIMUM LONGITUDINAL STUD SPACING IS AS FOLLOWS:

A) BEAM PERPENDICULAR TO DECK SPAN -> MAX. SPACING = 24"
B) BEAM PARALLEL TO DECK SPAN -> MAX. SPACING = 32"

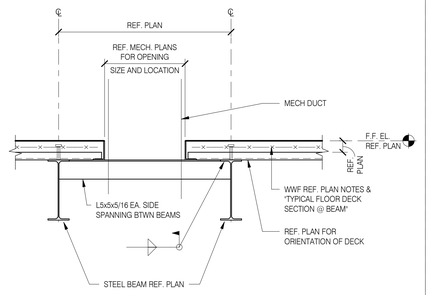
WHERE THE SPECIFIED NUMBER OF SHEAR STUDS EXCEEDS THE NUMBER OF STEEL DECK CORRUGATIONS THAT OCCUR AT THE BEAM OR BEAM SEGMENT, ADDITIONAL STUDS IN A SECOND ROW (THIRD ROW IF REQD) SHALL BE PLACED SUCH THAT THE HIGHEST DENSITY OF SHEAR STUDS OCCURS NEAR THE BEAM SUPPORT.

FASTEN DECK TO SUPPORTS PER PLAN NOTES.

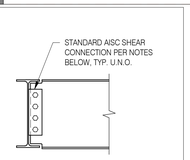
9 TYP. COMPOSITE BEAM DETAIL 3/4" = 1'-0"



6 DECK SPAN DIRECTION CHANGE 3/4" = 1'-0"



2 OPENING IN ROOF SLAB 3/4" = 1'-0"



SC1: BEAM TO BEAM

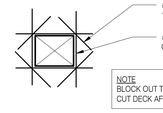
SHEAR CONNECTION DESIGN CRITERIA

A. DETAIL CONNECTIONS PER AISC - ASD 9TH EDITION SPECIFICATION USING MIN. 5/16" THICK DOUBLE CLIP ANGLES OR MIN. 3/8" SHEAR PLATE. USE 3/4" DIA. A 325-N BOLTS OR LARGER FOR ALL STRUCTURAL CONNECTIONS U.N.O.. SHEAR PLATE CONNECTIONS SHALL BE BOLTED @ BEAM AND WELDED @ SUPPORT. DOUBLE CLIP ANGLES CAN BE EITHER BOLTED OR WELDED PROVIDED THEY COMPLY WITH LOADING REQUIREMENTS AND AISC STANDARDS.

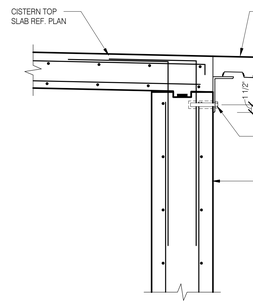
B. IN ADDITION TO SHEAR CONNECTION DESIGN CRITERIA PER NOTES A - C, PROVIDE A MINIMUM OF THE FOLLOWING NUMBER OF CONNECTION BOLTS AS FOLLOWS:

W8 - W12 2 BOLTS
W14 - W16 3 BOLTS

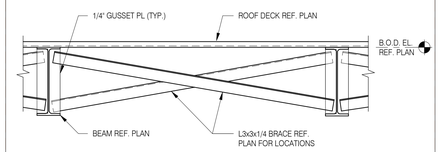
5 TYPICAL SHEAR CONNECTIONS NTS



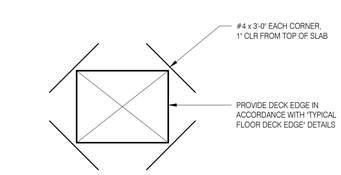
G. PUNCHED FLOOR OPENING (12" X 12" OR SMALLER)



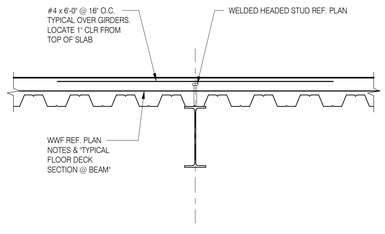
8 DTL AT CISTERN WALL BTWN BMS 1" = 1'-0"



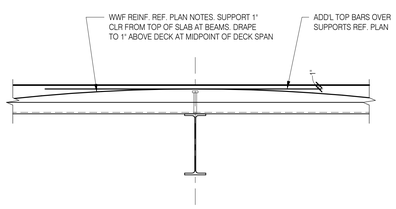
4 ANGLE BRIDGING 3/4" = 1'-0"



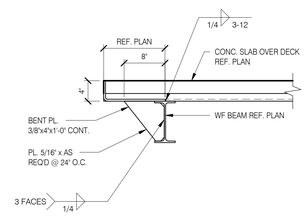
E. TYPICAL PLAN VIEW AT FLOOR OPENING



B. TYPICAL DECK SECTION AT GIRDER

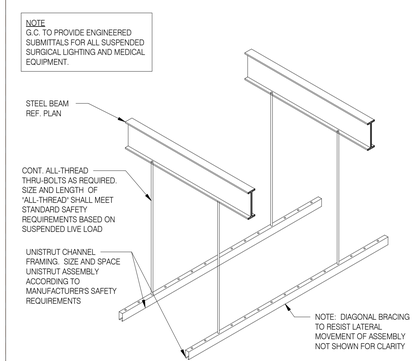


A. TYPICAL DECK SECTION AT BEAM



7 DTL AT RO PLANT ROOF SLAB 1" = 1'-0"

NOTE
G.C. TO PROVIDE ENGINEERED SUBMITTALS FOR ALL SUSPENDED SURGICAL LIGHTING AND MEDICAL EQUIPMENT.



3 SUSPENDED EQUIP. SUPPORT DTL NTS

1 TYP. COMP. DECK DETAILS NTS

Revisions / Submission

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REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
STATE OF LOUISIANA
11/14/2025

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
3701 Kirby Drive, Suite 830
Houston, TX 77098
tel 832.947.1038
935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

Salas O'Brien
salasobrien.com
New Orleans
541 Julia St., Suite 200
New Orleans, LA 70130
Registration: F-4111
Project No: 2250-00216

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

Project Number: 24032.05
Date: 11/14/2025
Project Engineer: BC

TYPICAL STEEL DETAILS

S5.10

Autodesk Docs://24032_MVW Westin St John CAPEX Projects_r24/Westin St John CAPEX Projects_STRUCTURE_R24.rvt

MECHANICAL SPECIFICATIONS

TESTING, BALANCING AND ADJUSTING

1. SECTION INCLUDES BALANCE, ADJUST AND TEST THE AIR DISTRIBUTION SYSTEM INCLUDING THE EXHAUST SYSTEM.
2. TAB TOLERANCES THE WATER, OUTSIDE AIR, SUPPLY AIR, RETURN AIR, AND EXHAUST AIR FOR EACH SYSTEM SHALL BE ADJUSTED TO WITHIN +/- 5% OF THE VALUE SCHEDULED ON THE DRAWINGS.
3. TESTING THE SYSTEM THE TAB AGENCY SHALL VERIFY THAT ALL DUCTWORK, DAMPERS, GRILLES, REGISTERS, AND DIFFUSERS HAVE BEEN INSTALLED PER DESIGN.
   1. SUPPLY FANS:
      - A. FAN SPEEDS: TEST AND ADJUST FAN RPM TO ACHIEVE DESIGN CFM REQUIREMENTS.
      - B. CURRENT AND VOLTAGE: TEST AND RECORD MOTOR VOLTAGE AND AMPERAGE AND COMPARE DATA WITH THE NAMEPLATE LIMITS TO ENSURE FAN MOTOR IS NOT IN OR ABOVE THE SERVICE FACTOR.
      - C. PITOT-TUBE TRAVERSE: PERFORM A PITOT-TUBE TRAVERSE OF THE MAIN SUPPLY AND RETURN DUCTS, AS APPLICABLE, TO OBTAIN TOTAL CFM. MEASUREMENTS MUST BE RECORDED WITH AN INCLINED MANOMETER OR AN INCLINED/VERTICAL MANOMETER.
      - D. OUTSIDE AIR: TEST AND ADJUST THE OUTSIDE AIR ON APPLICABLE EQUIPMENT USING A PITOT-TUBE TRAVERSE.
      - E. STATIC PRESSURE: TEST AND RECORD SYSTEM STATIC PRESSURE, INCLUDING THE STATIC PRESSURE PROFILE OF EACH SUPPLY FAN.
   2. ALL OTHER FANS:
      - A. FAN SPEEDS: TEST AND ADJUST FAN RPM TO ACHIEVE DESIGN CFM REQUIREMENTS
      - B. CURRENT AND VOLTAGE: TEST AND RECORD MOTOR VOLTAGE AND AMPERAGE AND COMPARE DATA WITH THE NAMEPLATE LIMITS TO ENSURE FAN MOTOR IS NOT IN OR ABOVE THE SERVICE FACTOR.
      - C. PITOT-TUBE TRAVERSE: PERFORM A PITOT-TUBE TRAVERSE OF THE MAIN RETURN DUCTS, AS APPLICABLE, TO OBTAIN TOTAL CFM. MEASUREMENTS MUST BE RECORDED WITH AN INCLINED MANOMETER OR AN INCLINED/VERTICAL MANOMETER.
      - D. STATIC PRESSURE: TEST AND RECORD SYSTEM STATIC PRESSURE, INCLUDING THE STATIC PRESSURE PROFILE OF EACH RETURN FAN.
   3. COILS (INCLUDING ELECTRIC COILS):
      - A. AIR TEMPERATURE: ONCE AIR FLOWS ARE SET TO ACCEPTABLE LIMITS, TAKE WET BULB (COOLING COIL ONLY) AND DRY BULB AIR TEMPERATURES ON THE ENTERING AND LEAVING SIDE OF EACH COIL. CALCULATE THE SENSIBLE AND LATENT (COOLING COIL ONLY) CAPACITY OF THE COIL.
   4. REVIEW THE RETURN AIR PATH FOR EACH AREA SERVED BY AIR HANDLING UNITS TO ENSURE A CORRECT OPERATING SYSTEM.
4. EQUIPMENT POWER READINGS (RECORD THE FOLLOWING INFORMATION FOR EACH MOTOR)
   1. EQUIPMENT DESIGNATION.
   2. MANUFACTURER.
   3. UNIT MODEL NUMBER AND SERIAL NUMBER AND FRAME.
   4. MOTOR NAMEPLATE HORSEPOWER; NAMEPLATE VOLTAGE; PHASE AND FULL LOAD AMPERES.
   5. HEATER COIL IN STARTER.
      - A. RATING IN AMPERES.
      - B. MANUFACTURER'S RECOMMENDATION.
   6. MOTOR RPM/DRIVEN EQUIPMENT RPM.
   7. POWER READING (VOLTAGE, AMPERES OF ALL LEGS AT MOTOR TERMINALS).
5. DIRECT EXPANSION EQUIPMENT (WITH EACH UNIT OPERATING AT NEAR DESIGN CONDITIONS, MEASURE AND RECORD THE FOLLOWING)
   1. MANUFACTURER, MODEL NUMBER, SERIAL NUMBER AND ALL NAMEPLATE DATA.
   2. AMBIENT TEMPERATURE, CONDENSER DISCHARGE TEMPERATURE.
   3. AMPERAGE AND VOLTAGE FOR EACH PHASE.
   4. LEAVING AND ENTERING AIR TEMPERATURES.
   5. SUCTION AND DISCHARGE PRESSURES AND TEMPERATURES.
   6. TONS OF COOLING.
6. TAB REPORT
   1. THE ACTIVITIES DESCRIBED IN THIS SPECIFICATION SHALL BE RECORDED IN A REPORT FORM. NEATLY TYPE AND ARRANGE DATA. INCLUDE WITH THE DATA THE DATE TESTED, PERSONNEL PRESENT, WEATHER CONDITIONS, NAMEPLATE RECORD OF THE TEST INSTRUMENTS USED AND LIST ALL MEASUREMENTS TAKEN AFTER ALL CORRECTIONS ARE MADE TO THE SYSTEM. PROVIDE A "PREFACE" WHICH SHALL INCLUDE A GENERAL DISCUSSION OF THE SYSTEM AND ANY ABNORMALITIES OR PROBLEMS ENCOUNTERED. SUBMIT PDF ELECTRONIC COPY TO THE ARCHITECT AND ENGINEER.
   2. ALL MEASUREMENTS AND RECORDED READINGS (OF AIR, WATER, ELECTRICITY, ETC.) THAT APPEAR IN THE REPORT MUST HAVE BEEN RECORDED ON SITE BY THE PERMANENTLY EMPLOYED TECHNICIANS OR ENGINEERS OF THE TAB FIRM.
   3. SUBMIT REPORTS ON FORMS APPROVED BY THE ENGINEER THAT WILL INCLUDE THE FOLLOWING DATA AS A MINIMUM: TITLE PAGE: COMPANY NAME, COMPANY ADDRESS, COMPANY TELEPHONE NUMBER, PROJECT NAME, PROJECT LOCATION, PROJECT MANAGER, PROJECT ENGINEER, PROJECT CONTRACTOR, SUMMARY OF THE TAB REPORT DATA, INDEX
   4. FAN DATA: LOCATION, MANUFACTURER, MODEL, AIR FLOW, SPECIFIED AND ACTUAL, TOTAL STATIC PRESSURE (TOTAL EXTERNAL) SPECIFIED AND ACTUAL, INLET PRESSURE, DISCHARGE PRESSURE, FAN RPM
   5. RETURN AIR/OUTSIDE AIR DATA: IDENTIFICATION/LOCATION, DESIGN RETURN AIRFLOW, ACTUAL RETURN AIRFLOW, DESIGN OUTSIDE AIRFLOW, ACTUAL OUTSIDE AIR FLOW, RETURN AIR TEMPERATURE, OUTSIDE AIR TEMPERATURE, REQUIRED MIXED AIR TEMPERATURE, ACTUAL MIXED AIR TEMPERATURE
   6. ELECTRIC MOTORS: MANUFACTURER, HP/BHP, PHASE, VOLTAGE, AMPERAGE, NAMEPLATE, ACTUAL, RPM, SERVICE FACTOR, STARTER SIZE, HEATER ELEMENTS, RATING.
   7. V-BELT DRIVE: IDENTIFICATION/LOCATION, REQUIRED DRIVEN RPM, DRIVE SHEAVE, DIAMETER AND RPM, BELT, SIZE AND QUANTITY, MOTOR SHEAVE, DIAMETER AND RPM, CENTER-TO-CENTER DISTANCE, MAXIMUM, MINIMUM AND ACTUAL
   8. DUCT TRAVERSE: SYSTEM ZONE/BRANCH, DUCT SIZE, AREA, DESIGN VELOCITY, DESIGN AIRFLOW, TEST VELOCITY, TEST AIRFLOW, DUCT STATIC PRESSURE, AIR CORRECTION FACTOR.
   9. COIL DATA: IDENTIFICATION/NUMBER, LOCATION, SERVICE, MANUFACTURER, ENTERING AIR DB TEMPERATURE, DESIGN AND ACTUAL, LEAVING AIR DB TEMPERATURE, DESIGN AND ACTUAL, WATER PRESSURE FLOW, DESIGN AND ACTUAL, WATER PRESSURE DROP, DESIGN AND ACTUAL, ENTERING WATER TEMPERATURE, DESIGN AND ACTUAL ,(LEAVING WATER TEMPERATURE, DESIGN AND ACTUAL, AIR PRESSURE DROP, DESIGN AND ACTUAL, CAPACITY
   10. ELECTRIC COIL DATA: IDENTIFICATION/NUMBER, LOCATION, SERVICE, MANUFACTURER, ENTERING AIR DB TEMPERATURE, DESIGN AND ACTUAL, LEAVING AIR DB TEMPERATURE, DESIGN AND ACTUAL, ELECTRICAL CHARACTERISTICS, CAPACITY

DUCTWORK INSULATION

A. FURNISH AND INSTALL EXTERNAL INSULATION ON SUPPLY, RETURN, EXHAUST AND FRESH AIR DUCTWORK.
B. ALL DUCT INSULATION USED ON THE PROJECT INSIDE THE BUILDING MUST HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50 AS DETERMINED BY TEST PROCEDURES ASTM E84, NFPA 255 AND UL 723.
C. CONDENSATION ON ANY INSULATED SYSTEM IS NOT APPROVED.
D. WHERE EXISTING INSULATED DUCTWORK OR OTHER SERVICES ARE TAPPED, REMOVE EXISTING INSULATION BACK TO UNDAMAGED SECTIONS AND REPLACE WITH NEW INSULATION OF THE SAME TYPE AND THICKNESS AS EXISTING INSULATION.
E. INSULATION: GLASS FIBER BLANKET DUCT INSULATION. ACCEPTABLE MANUFACTURERS ARE: MANVILLE R-SERIES MICROLITE FSKL, OWENS-CORNING ED100 RKF, KNAUF +.0 PCF FSK.
F. REINFORCED FOIL TAPE: ACCEPTABLE MANUFACTURERS ARE: VENTURE 1525CW, 3" FSK.
G. THERMAL CHARACTERISTICS: MINIMUM OF R-6. MINIMUM OF R-8 IN VENTILATED ATTICS.

FANS

A. PROVIDE FAN TYPE, ARRANGEMENT, ROTATION, CAPACITY, SIZE, MOTOR HORSEPOWER, AND MOTOR VOLTAGE AS SHOWN. FAN CAPACITIES AND CHARACTERISTICS ARE SCHEDULED ON THE DRAWINGS. PROVIDE FANS CAPABLE OF ACCOMMODATING STATIC PRESSURE VARIATIONS OF +10 % OF SCHEDULED DESIGN AT THE DESIGN AIR FLOW.
B. ACCEPTABLE MANUFACTURERS: COOK, GREENHECK, PENN VENTILATOR, ACME, CARNES, DAIKIN.
C. SAFETY DISCONNECT SWITCH: PROVIDE A FACTORY-WIRED TO MOTOR, SAFETY DISCONNECT SWITCH ON EACH UNIT.
D. DAMPERS: WHERE AUTOMATIC BACKDRAFT DAMPER IS SCHEDULED: MULTI-BLADED, ROLL FORMED ALUMINUM BLADES, NYLON BEARINGS, NEOPRENE WEATHER STRIP ON BLADE EDGE.
E. FURNISH SUPPLY FANS WITH 1" ALUMINUM, WASHABLE FILTER SECTION.

AIR-COOLED CONDENSING UNITS

A. FURNISH AND INSTALL AIR-COOLED CONDENSING UNITS COMPLETE WITH CASING, COMPRESSOR, CONDENSER COIL, CONDENSER FAN AND CONTROLS REQUIRED FOR A SPLIT AIR CONDITIONING SYSTEM.
B. PROVIDE PERFORMANCE AS SCHEDULED ON DRAWINGS, AND HEAD PRESSURE CONTROL TO ENABLE UNIT TO OPERATE IN TEMPERATURES AS LOW AS 20 DEGREES FAHRENHEIT.
C. ACCEPTABLE MANUFACTURERS: CARRIER, TRANE, YORK.
D. COMPRESSOR: PROVIDE A HERMETIC OR SEMI-HERMETIC COMPRESSOR WITH CRANKCASE HEATERS, INHERENTLY PROTECTED MOTORS, SPRING MOUNTS AND CAPACITY MODULATION. PROVIDE EACH COMPRESSOR WITH A 5-YEAR WARRANTY.
E. CONDENSER COILS: PROVIDE COPPER TUBES WITH MECHANICALLY BONDED ALUMINUM FINS. PROTECT CONDENSER COILS WITH A HEAVY GAUGE, CORROSION RESISTANT WIRE GUARD.
F. FANS AND MOTORS: PROVIDE PROPELLER-TYPE FANS WITH DIRECT DRIVE OR BELT DRIVE AND VERTICAL DISCHARGE. PROTECT FAN WITH A HEAVY-GAUGE, CORROSION RESISTANT WIRE GUARD. PROVIDE INHERENTLY PROTECTED, PERMANENTLY LUBRICATED, AND WEATHERPROOF MOTORS.
G. CONTROLS: PROVIDE SAFETY AND OPERATING CONTROLS FACTORY WIRED AND MOUNTED IN A SEPARATE ENCLOSURE. INCLUDE HIGH AND LOW PRESSURE SWITCHES AND COMPRESSOR MOTOR OVERLOAD DEVICES. FURNISH A TIME DELAY DEVICE TO PREVENT SHORT CYCLING. EMPLOY A CONTROL TRANSFORMER, A PRESSURE RELIEF DEVICE AND SUCTION AND DISCHARGE VALVES WITH SERVICE CONNECTIONS.
H. THERMOSTAT: LOW VOLTAGE THERMOSTAT IS A COMPONENT OF THE UNIT MANUFACTURER UNLESS SPECIFIED IN ANOTHER SECTION. INDIVIDUAL HEATING/COOLING SETPOINTS. AUTOMATIC HEAT/COOL CHANGE-OVER. SUB-BASE ON-OFF-AUTO FAN SELECTION. SUB-BASE HEAT-OFF-COOL-AUTO SYSTEM SELECTION.
I. INSTALLATION: MOUNT CONDENSING UNITS ON 4" FOUNDATION PADS AND PIPE AS SHOWN ON DRAWINGS OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. INSTALL REMOVABLE CORE REFRIGERANT FILTER DRYER AND SIGHT INDICATING GLASS.
J. CONTROL WING: FURNISH AND INSTALL CONTROL WIRING AS REQUIRED. INSTALL CONTROL WIRING IN CONDUIT.

REFRIGERANT PIPING

A. REFRIGERANT PIPING: TYPE K HARD-DRAWN COPPER TUBING WITH SWEAT-TYPE, WROUGHT COPPER FITTINGS. CAST FITTINGS ARE NOT PERMITTED.
B. PRESSURE TEST: CHARGE THE SYSTEM WITH DRY NITROGEN AND TEST TO 300 PSIG. TEST JOINTS WITH A HALIDE TORCH OR AN ELECTRONIC LEAK DETECTOR. RETEST SYSTEM UNTIL PROVEN TIGHT.
C. EVACUATION AND DRYING: AFTER REFRIGERANT SYSTEM HAS BEEN PRESSURE TESTED, CONNECT A SUITABLE VACUUM PUMP AND EVACUATE PIPING SYSTEM, INCLUDING LINES AND EQUIPMENT. MAINTAIN A VACUUM AS HIGH AS PRACTICABLE FOR LONG ENOUGH TO EVAPORATE THE MOISTURE IN THE SYSTEM (AT LEAST 48 HOURS). CHECK THE HUMIDITY WITHIN THE SYSTEM WITH A WET BULB INDICATOR, AND MAINTAIN THE VACUUM UNTIL THE WET BULB TEMPERATURE IS REDUCED TO -40° F. AFTER THE SYSTEM HAS BEEN EVACUATED AND DRIED, BREAK THE VACUUM BY CHARGING PROPER REFRIGERANT INTO THE SYSTEM.
D. INSULATION: ELASTOMERIC INSULATION WITH A MINIMUM THICKNESS OF 3/4" WITH A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS. THERMAL CONDUCTIVITY OF 0.27 AT 75° F MEAN (ASTM C177 OR C 518). INSULATION TO BE ARMSTRONG OR APPROVED EQUAL. ALL INSULATION IS TO BE COVERED BY SMOOTH FABRICATED Z-LOCK ALUMINUM JACKET 0.016" THICK WITH A FACTORY APPLIED 1 MIL POLYETHYLENE/40LB AND FAB STRAP. KRAFT MOISTURE BARRIER. CHILERS LOCK-ON OR APPROVED EQUAL.

AIR FILTERS

A. AIR FILTERS: FURNISH AND INSTALL A DISPOSAL MEDIA AND FRAME FILTER WITH RESISTANCE TO AIR FLOW OF A CLEAN FILTER NOT TO EXCEED 0.12" WG AT 300 FPM.
B. INSTALL THE FILTERS AND FILTER GAUGES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SYSTEM CONTROL

A. GENERAL EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHTS IN ROOM UNLESS OTHERWISE NOTED.
B. FAN COIL UNIT / CONDENSING UNIT SHALL GO INTO OCCUPIED/UNOCCUPIED MODE AT TIME SET THROUGH PROGRAMMED THERMOSTAT (CONSULT WITH OWNER FOR TIMES). A SPACE TEMPERATURE SENSOR SHALL MAINTAIN DESIRED SET POINT TEMPERATURE. IF UNIT HAS (2) COMPRESSORS, FAN COIL SHALL RUN AT HALF SPEED WHEN ONLY ONE COMPRESSOR IS ENERGIZED TO MAINTAIN COLDEST AIR POSSIBLE. UNIT SHALL BE SET TO RUN IN "AUTO" MODE ONLY. THE OUTSIDE AIR DAMPER SHALL BE INTERLOCKED TO ONLY OPEN WHEN THE UNIT IS OPERATING.

GENERAL

A. PERFORM WORK IN ACCORDANCE WITH APPLICABLE STATUTES, ORDINANCES, CODES AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.
B. OBTAIN ALL PERMITS REQUIRED.
C. CONTRACT DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT GIVE FULLY DIMENSIONED LOCATIONS OF VARIOUS ELEMENTS OF WORK. DETERMINE EXACT LOCATIONS FROM FIELD MEASUREMENTS.
D. GUARANTEE WORK FOR 1 YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT. DURING THAT PERIOD MAKE GOOD ANY FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIAL, EQUIPMENT OR WORKMANSHIP. AT THE OWNER'S OPTION, REPLACEMENT OF FAILED PARTS OR EQUIPMENT SHALL BE PROVIDED.
E. IMMEDIATELY PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT, REPLACE AIR FILTERS.
F. PROVIDE EQUIPMENT HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED AND GROUND MOUNTED HVAC EQUIPMENT, AND AS SHOWN ON THE DRAWINGS. CONCRETE PADS ARE TO BE 4" THICK UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
G. PROVIDE NAMEPLATES WITH 1/2" HIGH LETTERS AND FASTENED WITH EPOXY OR SCREWS.
H. MAINTAIN QUALITY CONTROL OVER SUPERVISION, SUBCONTRACTORS, SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS AND WORKMANSHIP TO PRODUCE WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS.
I. COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.
J. PERFORM WORK BY PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.
K. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSES, VIBRATION, AND RACKING. UNDER NO CONDITIONS SHALL MATERIAL OR EQUIPMENT BE SUSPENDED FROM STRUCTURAL BRIDGING.
L. PROVIDE FINISHES TO MATCH APPROVED SAMPLES. ALL EXPOSED FINISHES SHALL BE APPROVED BY THE ARCHITECT. SUBMIT COLOR SAMPLES AS REQUIRED.
M. COMPLY WITH INSTRUCTIONS IN FULL DETAIL, INCLUDING EACH STEP IN SEQUENCE. SHOULD INSTRUCTION CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT / ENGINEER BEFORE PROCEEDING.

CONDENSATE PIPING

A. TYPE "L" COPPER WITH DRAINAGE PATTERN FITTINGS IN RETURN PLENUM AREAS, PVC WITH DRAINAGE PATTERN FITTINGS IN NON-PLENUM AREAS.
B. INSTALL THE SYSTEM TO FACILITATE EASY REMOVAL. USE THREADED PLUGGED TEE AT EACH CHANGE OF DIRECTION TO PERMIT CLEANING. INSTALL A CLEANOUT EVERY 50 FEET OF STRAIGHT RUN PIPING, MAINTAIN A POSITIVE SLOPE ON ALL PIPING.
C. INSTALL A WATER SEAL TRAP LEG BASED ON THE FAN PRESSURE. SIZE THE LENGTH OF THE TRAP LEG 1 INCH LARGER THAN THE ACTUAL SYSTEM PRESSURE.
D. DO NOT INSTALL PIPING SIZED SMALLER THAN THE UNIT DRAIN CONNECTION SIZE.
E. INSULATE PIPING WITH 3/4" ELASTOMERIC INSULATION FOR ALL PIPE BELOW ROOF. INSULATION TO BE 25/50 FLAME AND SMOKE RATING.

DUCTWORK

A. DUCT MATERIAL AND CONSTRUCTION: USE LOCK FORMING QUALITY PRIME GALVANIZED STEEL SHEETS OR COILS UP TO 60" WIDE. STENCIL EACH SHEET WITH GAUGE AND MANUFACTURER'S NAME. STENCIL COILS OF SHEET STEEL THROUGHOUT ON 10' CENTERS WITH GAUGE AND MANUFACTURER'S NAME. PROVIDE CERTIFICATION OF DUCT GAUGE AND MANUFACTURER FOR EACH SIZE DUCT.
B. RECTANGULAR LOW PRESSURE DUCT CONSTRUCTED OF SHEET METAL IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
C. LOW PRESSURE ROUND DUCTS SHALL BE SHOP FABRICATED WITH SNAP LOCK LONGITUDINAL SEAMS. DUCTS SHALL BE CONSTRUCTED FOR A MINIMUM OF 2" W.G. STATIC PRESSURE.
D. DUCT LINING SHALL BE 1" THICK, 1 1/2 LB. DENSITY; FLEXIBLE LINING COATED ON THE AIR STREAM SIDE TO REDUCE ATTRITION, LINER SHALL BE SCHULER LINA-COUSTIC, CERTAIN TEED ULTRALITE, OR EQUAL MEETING REQUIREMENTS OF NFPA 90 A. PROVIDE I.A.Q. RATED LINER.
E. WALL LOUVERS: REFER TO SCHEDULE ON DRAWINGS. COORDINATE WITH ARCHITECTURAL DRAWINGS. ALL LOUVER FRAMES SHALL BE A MINIMUM OF 0.08" EXTRUDED ALUMINUM. ALL BLADES SHALL BE A MINIMUM OF 0.081" EXTRUDED ALUMINUM BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ/SQ.FT. SHALL BE A MINIMUM OF 800 FT/MIN. PROVIDE ALL LOUVERS WITH REMOVABLE ALUMINUM BIRD SCREEN WITH 1/4" MESH.
F. VOLUME DAMPERS: MANUAL BALANCING DAMPERS THAT MEET OR EXCEED THE FOLLOWING MINIMUM CONSTRUCTION STANDARDS: FRAME 16-GAUGE, BLADES 16-GAUGE, BEARINGS CORROSION RESISTANT, OPPOSED BLADE DAMPERS.
G. INSTALLATION: USE CONSTRUCTION METHODS AND REQUIREMENTS AS OUTLINED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS AS WELL AS SMACNA BALANCING AND ADJUSTING PUBLICATIONS, UNLESS INDICATED OTHERWISE IN THE SPECIFICATIONS. REFER TO DETAILS ON THE DRAWINGS FOR ADDITIONAL INFORMATION. REINFORCE DUCTS IN ACCORDANCE WITH RECOMMENDED CONSTRUCTION PRACTICE OF SMACNA. PROVIDE ADDITIONAL REINFORCEMENT OF LARGE PLENUMS AS REQUIRED TO PREVENT EXCESSIVE FLEXING AND OR VIBRATION.

AIR DEVICES

A. FURNISH AND INSTALL AIR DISTRIBUTION DEVICES, INCLUDING GRILLES, DIFFUSERS, REGISTERS, DAMPERS, AND EXTRACTORS.
B. ACCEPTABLE MANUFACTURERS: TUTTLE AND BAILEY, TITUS, KRUEGER, METAL-AIRE, NAILOR INDUSTRIES, PRICE.

FAN COIL UNITS

A. ACCEPTABLE MANUFACTURERS: TRANE, CARRIER, YORK.
B. FAN SECTION: LOCATE THE MOTOR AND DRIVE ASSEMBLY INSIDE THE CABINET. SIZE EACH V-BELT DRIVE FOR 50 % OVERLOAD. ADJUSTABLE PITCH MOTOR PULLEY. PROVIDE BUILT-IN MOTOR PROTECTION PROVIDE A BELT ADJUSTMENT MEANS. SELECT THE FAN MOTOR SO THAT THE BRAKE HORSEPOWER REQUIRED TO DELIVER THE DESIGN AIR QUANTITY AT THE SYSTEM STATIC PRESSURE WILL NOT EXCEED THE MOTOR NAMEPLATE AMPERAGE RATING.
C. UNIT HOUSING: CONSTRUCT THE UNIT OF GALVANIZED STEEL SHEETS, AND FORMED MEMBERS. INTERNALLY INSULATE THE ENTIRE UNIT WITH NEOPRENE COATED, 1-1/2 LB. DENSITY GLASS FIBER INSULATION, APPLIED TO INTERNAL SURFACES WITH ADHESIVE AND WELD PINS. COAT EXPOSED EDGES OF INSULATION WITH ADHESIVE. PROVIDE A DUCT FLANGE ON FOUR SIDES OF THE RETURN AIR INLET AND SUPPLY AIR OUTLET OF THE UNIT.
D. CONDENSATE DRAIN PANS: PROVIDE IAQ STYLE DRAIN PANS SHALL BE PROVIDED UNDER ALL COILS. PITCH TO DRAIN CONNECTION

MECHANICAL GENERAL NOTES

1.) ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.

2.) COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECTS) REFLECTED CEILING PLAN.

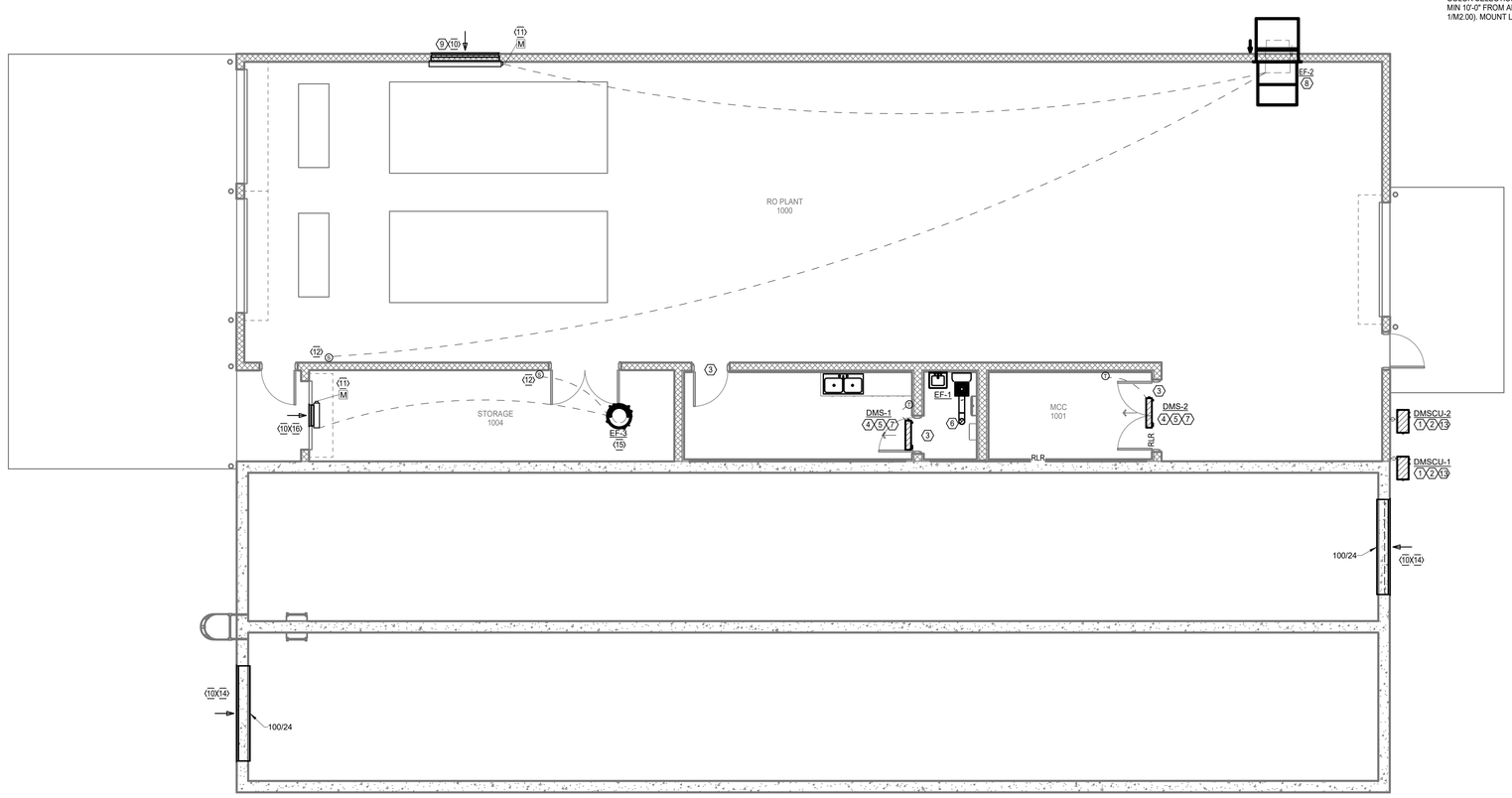
3.) ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.

4.) SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.

5.) REFER TO ARCHITECTURAL FOR ALL SOFFIT GRILLE MOUNTING LOCATIONS.

MECHANICAL KEYED NOTES

1. ROUTE REFRIGERANT LINES UP OUTSIDE EXTERIOR WALL, PENETRATE WALL AT 1'-0"AFF. FIELD ROUTE TO RESPECTIVE INDOOR UNIT.
2. PROVIDE 4" THICK REINFORCED CONCRETE HOUSEKEEPING PAD. SIZE PAD PER UNIT MANUFACTURER'S RECOMMENDATIONS. (RE: 2/M2.00)
3. UNDERCUT DOOR 1" FOR MAKE UP AIR PATH.
4. ROUTE 3/4" INSULATED CONDENSATE DRAIN TO HUB DRAIN. COORDINATE WITH PLUMBING FOR EXACT LOCATION OF HUB DRAIN. (RE: 3/M2.00)
5. MOUNT UNIT ABOVE DOOR.
6. ROUTE EXHAUST DUCT (SIZE AS SHOWN) UP TO ROOF HOOD. PROVIDE GREENHECK MODEL GRSR WITH 0.37 SQFT THROAT AREA OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS AND 3'-0" FROM ALL BUILDING KITCHEN EXHAUST OUTLETS.
7. PROVIDE UNITS WITH MEANS OF VIBRATION ISOLATION MOUNTING.
8. SIDEWALL MOUNTED FAN. MOUNT FAN 8'-0" AFF.
9. INSTALL INTAKE LOUVER WITH MINIMUM FREE AREA OF 9.6 SF GREENHECK MODEL AFL-601-72x44 WITH BIRD SCREEN OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION AND MOUNTING HEIGHT. LOCATE INTAKE MIN 10'-0" FROM ALL BUILDING EXHAUST OUTLETS. (RE: 1/M2.00). MOUNT LOUVER 8'-0" AFF.
10. LOUVER TO HAVE THE FOLLOWING REQUIREMENTS: AMCA-500-L (AIR), AMCA-500-L (WATER), AMCA-500-L (WIND DRIVEN), AMCA 540 BASIC LEVEL D DEBRIS IMPACT; AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN, MIAMI/DADE RATED.
11. MOTORIZED DAMPER TO OPEN WHEN ASSOCIATED WALL MOUNTED EXHAUST FAN IS ENERGIZED.
12. WALL MOUNTED EXHAUST FAN CONTROLS TO BE INSTALLED HERE.
13. MOUNT CONDENSING UNIT ON WALL.
14. INSTALL INTAKE LOUVER WITH MINIMUM FREE AREA OF 6.1 SF GREENHECK MODEL AFL-601-100x24 WITH BIRD SCREEN OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION AND MOUNTING HEIGHT. LOCATE INTAKE MIN 10'-0" FROM ALL BUILDING EXHAUST OUTLETS. (RE: 1/M2.00). MOUNT LOUVER 10'-10" AFF.
15. PROVIDE ROOF MOUNTED EXHAUST FAN FOR 1004 STORAGE.
16. INSTALL INTAKE LOUVER WITH MINIMUM FREE AREA OF 0.6 SF GREENHECK MODEL AFL-601-24x16 WITH BIRD SCREEN OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION AND MOUNTING HEIGHT. LOCATE INTAKE MIN 10'-0" FROM ALL BUILDING EXHAUST OUTLETS. (RE: 1/M2.00). MOUNT LOUVER 10'-0" AFF.



N

1 **MECHANICAL - ENLARGED PLAN - NEW SWRO PLANT**
Scale: 3/16" = 1'-0"

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Revisions / Submission

The drawings, specifications and other documents prepared by the Architect for this project are instruments of the Architect's service for use solely with respect to this project and, unless otherwise provided, the architect shall be deemed the author of these documents and shall retain all common law, statutory and other reserved rights, including reproducible copies, of the Architect's drawings, specifications and other documents for information and reference in connection with the Owner's use and occupancy of the project. The Architect's drawings, specifications or other documents shall not be used by the Owner or others on other projects, for additions to this project or for completion of this project by others, unless the Architect is adjudged to be in default under this agreement, except by agreement in writing and with appropriate compensation to the Architect.

PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
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Project Number: 24032.05
Date: NOVEMBER 14, 2025
Project Architect: JMH

MECHANICAL FLOOR PLANS - SWRO PLANT & CISTERN

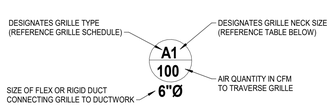
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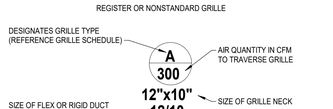
GRILLE SIZING SCHEDULE

STANDARD GRILLE



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

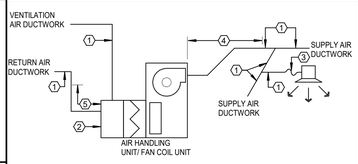
REGISTER OR NONSTANDARD GRILLE



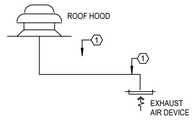
ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

DUCT LINER AND INSULATION



AIR HANDLING UNITS AND FAN COIL UNITS

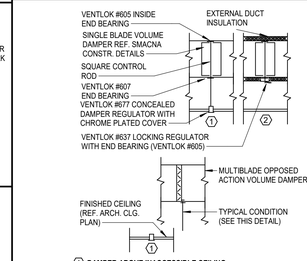


EXHAUST AIR SYSTEMS

KEYED NOTES:

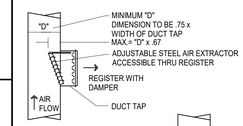
1. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
2. SHEETMETAL DUCTWORK RETURN AIR PLENUM WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
3. FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
4. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT DISCHARGE TO 10'-0" DOWNSTREAM.
5. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT INLET TO 10'-0" UPSTREAM.

DUCTWORK CONSTRUCTION DETAILS



1 DAMPER ABOVE INACCESSIBLE CEILING

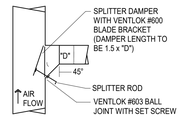
2 DAMPER ABOVE LIFT-OUT CEILING



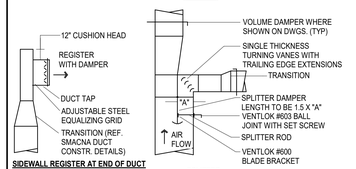
NOTES:

1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN.= 4")

EXTRACTOR SIDEWALL REGISTER



DUCT TAP

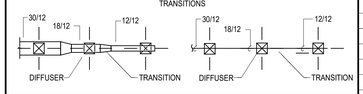


SIDEWALL REGISTER AT END OF DUCT

SPLITTER

DUCTWORK SYMBOLS LEGEND

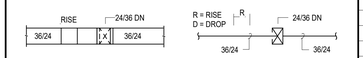
TRANSITIONS



MAIN BRANCH TAKE-OFFS



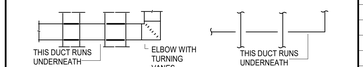
RISERS



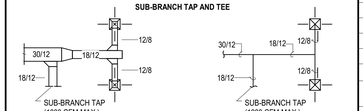
SIDEWALL REGISTERS



DUCT CROSSOVERS



SUB-BRANCH TAP AND TEE



TWO LINE DUCTWORK LEGEND	TWO LINE DUCTWORK SYMBOLS	ONE LINE DUCTWORK SYMBOLS
RECTANGULAR DUCTWORK 30/16	FLEXIBLE DUCT CONNECTION	
	INSTRUMENT TEST HOLE	
ROUND DUCTWORK 30"ø	STATIC PRESSURE SENSOR	
	MANUAL BALANCING DAMPER	
FLAT OVAL DUCTWORK 30x16	MOTORIZED DAMPER	
	DUCT MOUNTED SMOKE DETECTOR	

SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
(#)	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
SD	SMOKE DAMPER (VERTICAL)
SD	SMOKE DAMPER (HORIZONTAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
H	HUMIDISTAT
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
AIR DEVICES	
(#)	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
D	CONDENSATE DRAIN LINE
RLR	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES. ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
S	CONTINUATION
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	NOM. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP. (°F)	MINIMUM EER/ SEER2	CURRENT CHARAC.			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
				V	PH	F		MANUFACTURER	MODEL	MCA	MOCP	
DMSCU-1	9,000	88	11 / 16.2	208	1	60	DMS-1	DAIKIN	RBK	7	15	1,2,3
DMSCU-2	9,000	88	11 / 16.2	208	1	60	DMS-2	DAIKIN	RBK	7	15	1,2,3

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT KIT.
2. PROVIDE WITH HAIL GUARD.
3. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN						COOLING				REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	HORSE POWER	CURRENT CHARAC.			AIR TEMPERATURE (°F)		NOM. TOTAL CAPACITY (BTUH)	NOM. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER2	NUMBER OF STAGES	
				V	P	F	ENTERING DRY BULB	ENTERING WET BULB					
DMS-1	300	0	0.1	208	1	60	80.0	67.0	9000	6750	11 / 16.2	1	1,2,3,4,5,6,7
DMS-2	300	0	0.1	208	1	60	80.0	67.0	9000	6750	11 / 16.2	1	1,2,3,4,5,6,7

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. BASIS OF DESIGN: DAIKIN FTXB.
6. PROVIDE WITH CONDENSATE PUMP.
7. COOLING ONLY UNIT.

FAN SCHEDULE

Mark	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.).	MAX RPM	HORSE POWER	CURRENT CHAR			INTERLOCK WITH	FAN TYPE	DRIVE TYPE	Manufacturer	MODEL NUMBER	REMARKS
						V	P	F						
EF-1	1002 TLT.	70	.25	700	0.1	120	1	60	LIGHTS	CEILING	DIRECT	GREENHECK	SP	1
EF-2	1000 RO PLANT	6300	.36	890	2.0	208	1	60	SWITCH	WALL MOUNT	DIRECT	GREENHECK	AER-36-VG	2,3
EF-3	1004 STORAGE	255	0.5	1579	0.25	208	1	60	SWITCH	ROOF MOUNT	DIRECT	GREENHECK	G-097-VG	1,4

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER, VIBRATION ISOLATION, SPEED CONTROLLER, DECORATIVE GRILLE AND INTEGRAL DISCONNECT.
2. PROVIDE WITH OSHA MOTOR GUARD, WEATHER HOOD, WALL HOUSING KIT, MOTOR STARTER, AND INSECT SCREEN.
3. PROVIDE WITH GRAVITY OPERATED DAMPER MOUNT.
4. PROVIDE WITH ROOF CURB, HINGE KIT, INTEGRAL DISCONNECT, AND BIRDSCREEN.

BASIS OF DESIGN
THE MANUFACTURER AND MODEL NUMBER LISTED IN THE DRAWINGS OR SPECIFICATIONS ARE THE BASIS OF DESIGN. WHEN PROVIDING EQUIPMENT BY AN ACCEPTABLE MANUFACTURER THAT IS NOT BASIS OF DESIGN, THE CONTRACTOR SHALL PROVIDE AS A PART OF THE SUBMITTAL AND/OR SHOP DRAWING AN ITEMIZED LIST OF ALL MODIFICATIONS REQUIRED TO INSTALL THE NON-BASIS OF DESIGN EQUIPMENT FROM THE INFORMATION DETAILED IN BOTH THE SPECIFICATION SECTION AND EQUIPMENT SCHEDULE. ADDITIONALLY, THE EQUIPMENT MUST ADDRESS THE PHYSICAL CONSTRAINTS OF SPACE INCLUDING COORDINATION WITH OTHER TRADES AND ALL EQUIPMENT CLEARANCES. FINALLY, THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST TO THE PROJECT ANY SCOPE INCREASE BASED ON THE NON-BASIS OF DESIGN EQUIPMENT FOR THE FOLLOWING MINIMUM ITEMS:

- ELECTRICAL MODIFICATIONS, INCLUDING WIRING, CONDUIT, DISCONNECTS, OVERCURRENT PROTECTION, PANELS, MOTORS, ETC.
- PLUMBING MODIFICATIONS, INCLUDING DOMESTIC WATER, SANITARY, CONDENSATE, AND GAS PIPING, ETC.
- STRUCTURAL MODIFICATIONS
- CIVIL MODIFICATIONS
- DUCT AND PIPE CONNECTIONS OR ARRANGEMENTS
- SPACE HEATING AND COOLING REQUIREMENTS
- EXHAUST OR VENTILATION REQUIREMENTS
- VIBRATION ISOLATION REQUIREMENTS
- CONTROLS REQUIREMENTS TO MEET SPECIFICATIONS

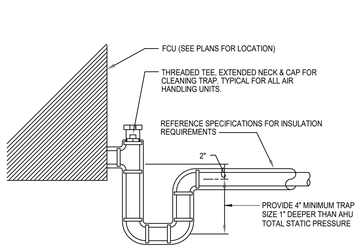
OUTDOOR DESIGN CONDITIONS ARE BASED ON MAXIMUM SUMMER TEMPERATURE AND MINIMUM WINTER TEMPERATURE FOR 99.6% OF THE YEAR AT THE NEAREST WEATHER STATION TO THE SITE PER 2021 ASHRAE FUNDAMENTALS.

OUTDOOR DESIGN DEHUMIDIFICATION CONDITION IS BASED ON THE MAXIMUM DEWPOINT FOR 98% OF THE YEAR AT THE NEAREST WEATHER STATION TO THE SITE PER 2021 ASHRAE FUNDAMENTALS.

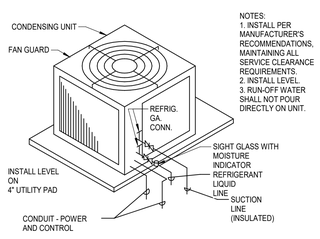
VENTILATION BASIS OF DESIGN: 2021 INTERNATIONAL MECHANICAL CODE (IMC) & ASHRAE 62.1 - 2019.

INTERIOR SPACE REQUIREMENTS, UNLESS NOTED OTHERWISE:

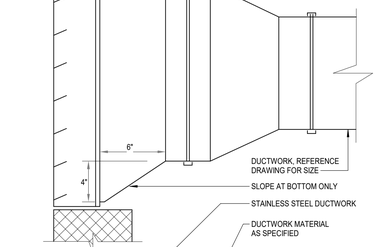
COOLING DESIGN	COOLING DESIGN	HEATING DESIGN	NOISE DESIGN
75°F DB	50% RH	72°F DB	35 (NC)



3 CONDENSATE DRAIN PIPING AT FCU
SCALE: NONE



2 CONDENSING UNIT ON UTILITY PAD
SCALE: NONE



1 DUCTWORK AT LOUVER
SCALE: NONE

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
3701 Kirby Drive, Suite 830
Houston, TX 77098
tel 832.947.1038
935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

Revisions / Submission

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
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WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

Project Number: 24032.05
Date: NOVEMBER 14, 2025
Project Architect: JMH

MECHANICAL DETAILS - SWRO PLANT & CISTERN

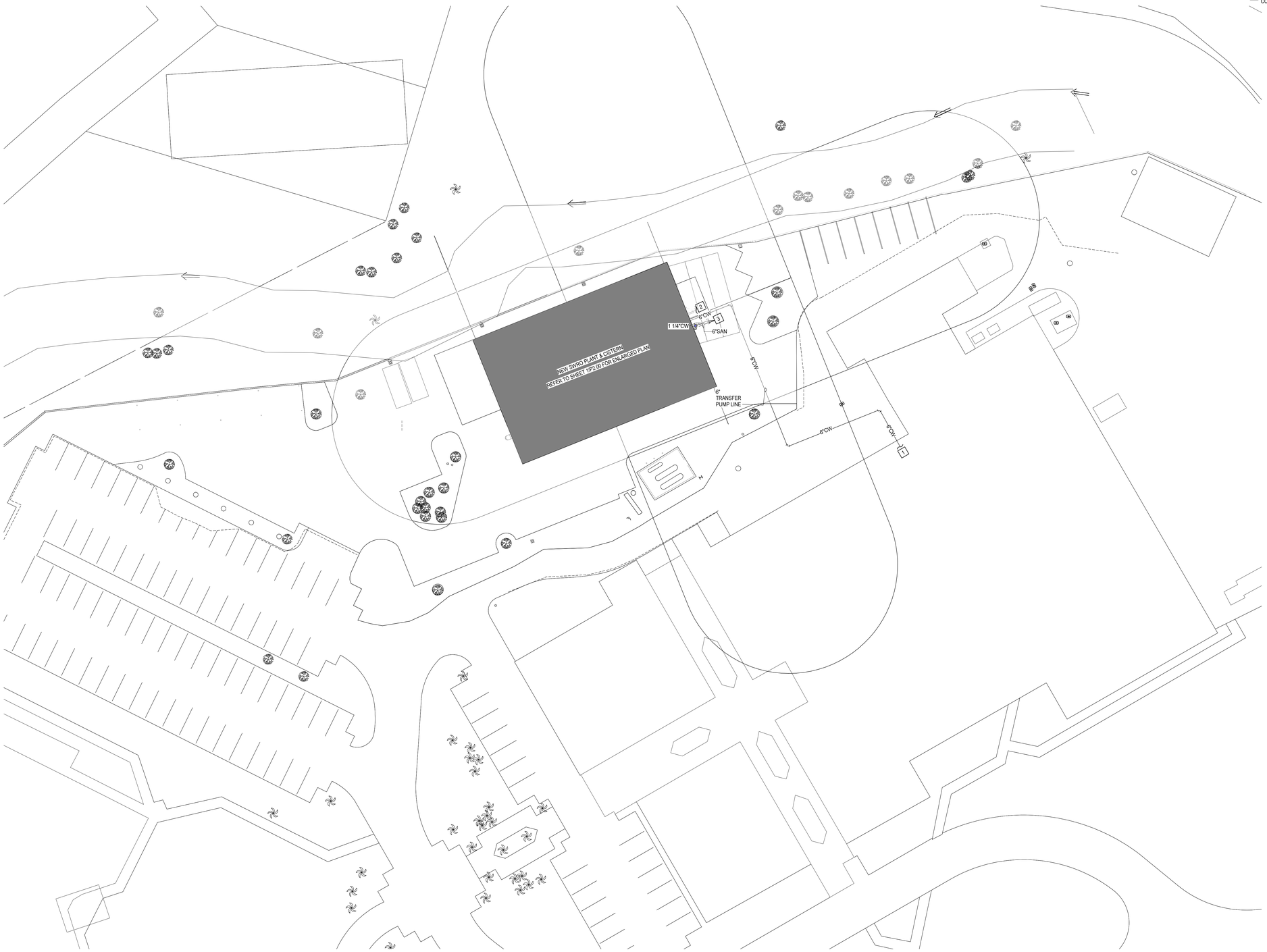
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PLUMBING KEYED NOTES:

1. ROUTE 6" TRANSFER PIPING TO EXISTING CISTERN PUMP ROOM.
2. REFER TO FIRE PROTECTION DRAWINGS FOR CONTINUATION.
3. REFER TO CIVIL DRAWINGS FOR PIPING CONTINUATION.



1 **PLUMBING - PROPOSED PLAN - NEW SWRO PLANT**
Scale: 1" = 20'-0"

Revisions / Submission

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
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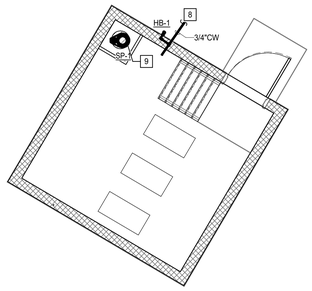
Project Number:	24032.05
Date:	NOVEMBER 14, 2025
Project Architect:	JMH

PLUMBING SITE PLAN - SWRO PLANT

P1.01

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PLUMBING GENERAL NOTES

1. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. ALL SANITARY PIPING 3" AND LARGER ROUTED AT 1/8" SLOPE PER FOOT UNLESS OTHERWISE NOTED. ALL PIPE LESS THAN 3" SHALL BE ROUTED AT 1/4" SLOPE PER FOOT.
3. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.
4. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
5. PROVIDE A TWO-WAY CLEANOUT AT CIVILS POINT OF CONNECTION.
6. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
7. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
8. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
9. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
10. PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS DIRECTED.

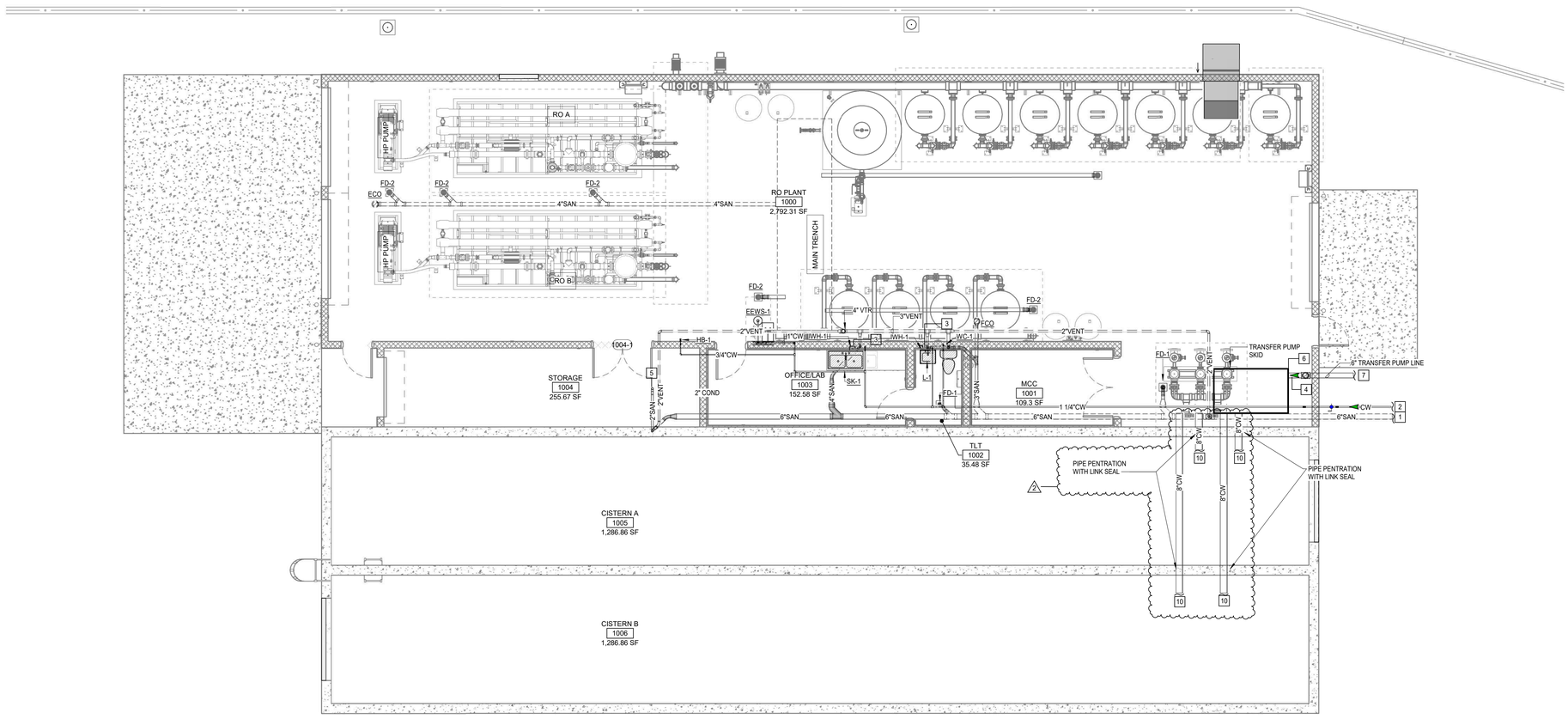
PLUMBING KEYED NOTES:

1. 4" SANITARY LINE FROM BUILDING. EXTEND AND CONNECT TO EXISTING GRAVITY SANITARY SEWER MAIN ROUGHLY IN THIS AREA. FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
2. 1-1/4" DOMESTIC WATER LINE ENTRY TO BUILDING. SUGGESTED WATER METER SIZE OF 5/8".
3. INSTANTANEOUS WATER HEATER (WH-1) MOUNTED UNDER SINK.
4. TRANSFER PUMP PIPING ROUTED UNDERGROUND TO CONNECT TO EXISTING WATER SYSTEM.
5. 2" HUB DRAIN SERVING MECHANICAL EQUIPMENT CONDENSATE. REFER TO MECHANICAL SHEETS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
6. CONNECT TO NEW RO PLANT, CONTRACTOR SHALL COORDINATE WATER CONNECTION WITH TSG PRIOR TO CONSTRUCTION.
7. REFER TO SHEET P1.01 FOR PIPING CONTINUATION.
8. PROVIDE 3/4 CW CONNECTION TO NEAREST COLD WATER LINE IN EXISTING MAINTENANCE BUILDING.
9. PROVIDE 3'x3'x3' PUMP SUMP PIT.
10. PROVIDE WITH ANTI VORTEX CONNECTION.

N

2 PLUMBING - ENLARGED PLAN - INTAKE PUMP BUILDING

Scale: 1/4" = 1'-0"



N

1 PLUMBING - ENLARGED PLAN - NEW SWRO PLANT & CISTERN

Scale: 3/16" = 1'-0"

1	ASI-003.2	12/10/2025
2	ASI-006.2-WSJ	01/09/26

Revisions / Submission

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
1.7.26

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
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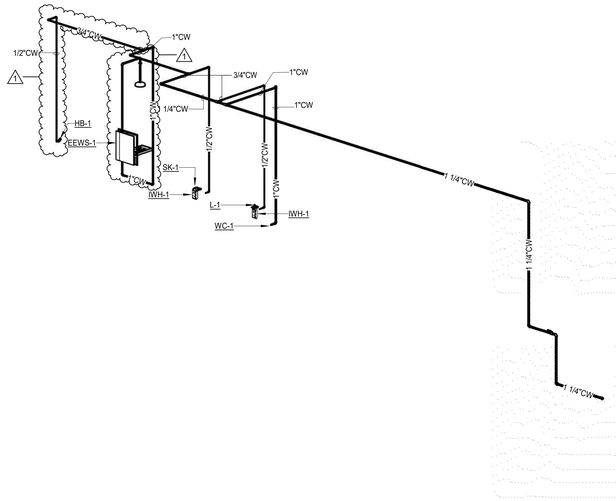
Project Number:	24032.05
Date:	NOVEMBER 14, 2025
Project Architect:	JMH

PLUMBING FLOOR PLANS - SWRO PLANT & CISTERN

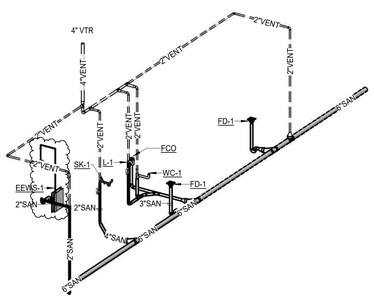
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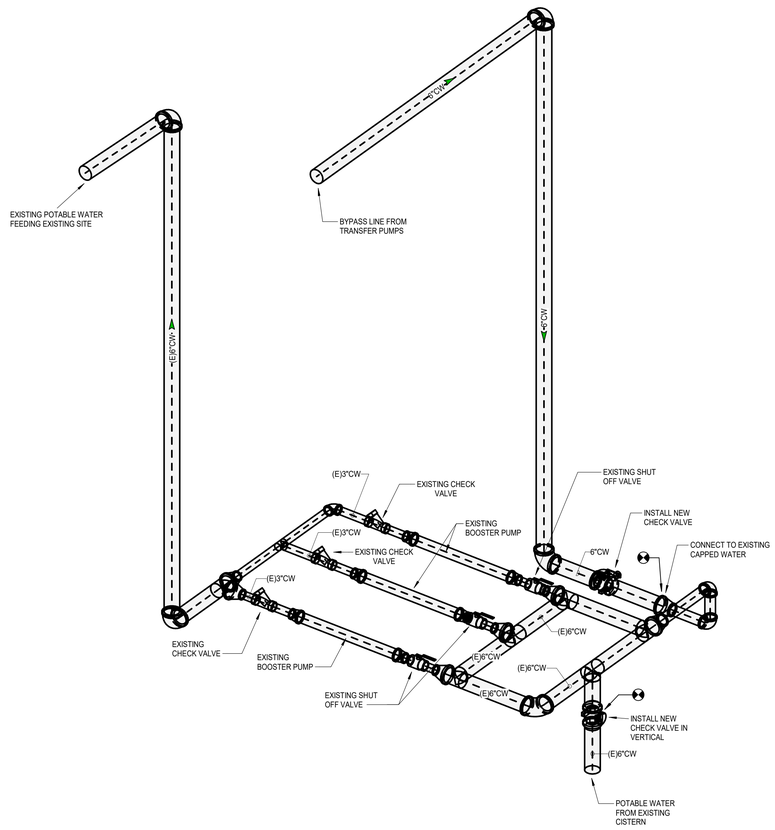
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2 PLUMBING RISER DIAGRAM - DOMESTIC WATER
Scale:



3 PLUMBING RISER DIAGRAM - WASTE & VENT
Scale:



1 EXISTING CISTERN PIPING SCHEMATIC
Scale:

1	ASI-006.1WSJ	12/10/2025

Revisions / Submission

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ARCHITECTS
cparch.com

3377 North Boulevard
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tel 504.322.3191

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PLUMBING RISERS

P2.01

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SHOCK ARRESTOR SCHEDULE

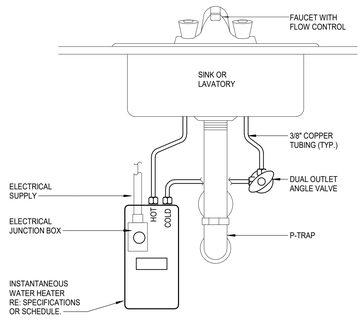
P.D.I. SYMBOLS:	FIXTURE UNITS:	THREADED CONNECTION	CERTIFICATION
A	1 - 11	1/2"	ASSE 1010
B	12 - 32	3/4"	ASSE 1010
C	33 - 60	1"	ASSE 1010
D	61 - 113	1"	ASSE 1010
E	114 - 154	1"	ASSE 1010
F	155 - 330	1"	ASSE 1010

ELECTRIC WATER HEATER SCHEDULE

ITEM NO.	KW INPUT	TEMP RISE PER 1.0 GPM	OUTPUT WATER TEMP	ELECTRICAL REQUIRED	MCA	*MOCP	MANUFACTURER / COMMENTS
IWH-1	1.5	30° F	110° F	120V/1PH.	13A	15A	EEMAX EMT2.5

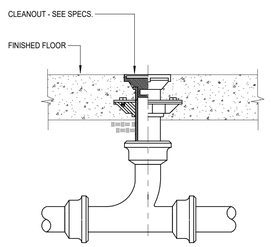
*IF THE MAXIMUM FUSE SIZE OF THE EQUIPMENT EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COSTS TO INCREASED FUSE SIZE / WIRE SIZE.

PHW02 - 09/10/18



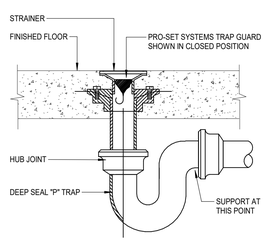
1 INSTANTANEOUS ELECTRIC WATER HEATER PIPING FOR SINK OR LAVATORY
SCALE: NONE

PSAN01- XX/XX/XX



2 FLOOR CLEANOUT
SCALE: NONE

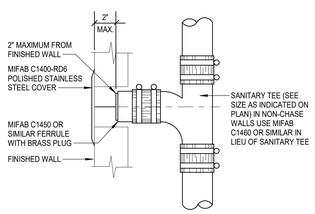
PSAN10- XX/XX/XX



NOTES:
1. TRAP GUARD SHALL BE FACTORY FITTED TO MATCH EACH FLOOR DRAIN (AND/FLOOR SINK) BY SIZE, MODEL, AND MANUFACTURER.
2. CONTACT LOCAL REP OR MANUFACTURER FOR CORRECT MODEL NUMBER.
3. FLOOR SINK TRAP GUARD INSTALLATION IS SIMILAR.
4. INSTALLATION OF TRAP GUARD TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. INSERT TRAP GUARD ONLY AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS TITE SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

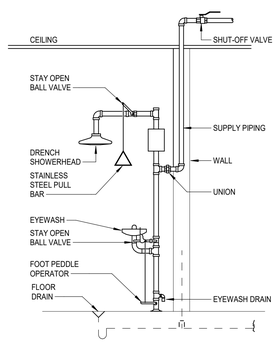
3 TRAP SEAL PROTECTION
SCALE: NONE

PSAN02- XX/XX/XX



4 WALL CLEANOUT
SCALE: NONE

PM06 - XX/XX/XX



5 EMERGENCY SHOWER / EYEWASH CONNECTION
SCALE: NONE

PUMP SCHEDULE

ITEM NO.	DESCRIPTION	TYPE	GPM HP.	FEET	H.P MIN.	VOLT/ PHASE	MANUFACTURER AND MODEL
SP-1	SUMP PUMP	SUBMERSIBLE SEWAGE	10	6	1/2	115/1	GOULDS SERIES 3872 #WW0511F

REMARKS:
1. SUMP PUMP FOR INTAKE PUMP BUILDING.
2. PROVIDE WITH 100 FOOT HOSE.
3. PROVIDE WITH PLUG.

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION
ECO	EDIT PER PROJECT!! DESCRIPTION: EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH ADJUSTABLE TOP ASSEMBLY WITH GASKET SEAL, AND ROUND SCORIATED VANDAL RESISTANT DUCTILE IRON TRACTOR TYPE COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"X18"X12" CONCRETE PAD. WADE 6000-Z.
EEWS-1	EMERGENCY SHOWER/FACE AND EYEWASH. FLOOR MOUNTED WITH STAINLESS STEEL BOWL AND SCEDULE 80, HOT DIP GALVANIZED PIPING. CHROME PLATED STAY-OPEN BALL VALVES, STAINLESS STEEL ACTUATORS, GRPAHICS. YELLOW ABS PLASTIC SHOWER HEAD ACTIVATED BY PULL ROD, 22 GPM FLOW CONTROL. ABS PLASTIC DUAL STREAM EYE-FACEWASH HEADS ACTIVATED BY PUSH PLATE, SELF ADJUSTING 4.8 SPM REGULATOR. FLOAT OFF COVERS SECURED WITH STAINLESS STEEL BEAD CHAINS. IN-LINE STRAINER TEE. ROTATE DRAIN LOCATION. FIELD PAINT SAFETY YELLOW. BRADLEY S19314 SERIES.
FCO	TYPE: FCO DESCRIPTION: FLOOR CLEANOUT, CAST IRON BODY AND ADJUSTABLE TOP ASSEMBLY WITH GASKET SEAL, AND ROUND SCORIATED STAINLESS STEEL COVER. WADE 6000-153. FOR CARPETED FLOORS PROVIDE WADE 6000-CM.
HB-1	DESCRIPTION: HOSE BIBB. EXPOSED TYPE, MILD CLIMATE. WALL-MOUNTED FAUCET WITH 3/4" F.P.T. INLET, 3/4" MALE HOSE THREAD OUTLET AND SELF-DRAINING ANTI-SIPHON VACUUM BREAKER. CHROME PLATED BRASS FINISH WITH REMOVABLE TEE HANDLE. CHICAGO 952-CP.
IWH-1	ROUGH-IN: 3/4" COLD WATER. INSTALL WITH OUTLET AT 18" A.F.F. OR AS DIRECTED BY ARCHITECT/OWNER.
DRAINAGE FIXTURE (CO, FD, FS, HD, TD)	
FD-1	TYPE: 3" FD-1 SERVICE: TOILET ROOMS AND GENERAL USE DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE 1100-MR6. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
FD-2	TYPE: 4" FD-2 SERVICE: TOILET ROOMS AND GENERAL USE DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE 1100-MR6. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
LAVATORY (L)	
L-1	TYPE: L-1 DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 18-1/2"X 17" BOWL WITH REAR OVERFLOW, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.027. FAUCET: CHROME PLATED BRASS LAVATORY, SINGLE LEVER ON 4" CENTERS VANDAL RESISTANT AERATOR. MOEN 8439. MIXING VALVE: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: 1-1/4" 17 GAUGE OFFSET WHEELCHAIR STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE OFFSET TAILPIECE. MCGUIRE 155WC. GRAVITY FED TRAP PRIMER TAILPIECE, 1/2" NOMINAL BRANCH CONNECTION. SIOUX CHIEF" 213-092. P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE W520-M36. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
SINK (HS, SK)	
SK-1	TYPE: SK-1 DESCRIPTION: SINK, COUNTER MOUNTED, SELF-RIMMING, 20 GAUGE TYPE 302 STAINLESS STEEL, 33" X 21-1/4" X 7" DEEP, DOUBLE COMPARTMENT WITH FAUCET DECK. FOUR FAUCET HOLES ON 8" CENTERS. ELKAY "CELEBRITY" CR3321. FAUCET: CHROME PLATED FAUCET WITH SPRAY HANDLE. 8" CENTERS. MOEN 8244. MIXING VALVE: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
WATER CLOSET (WC)	
WC-1	TYPE: WC-1 (STANDARD HEIGHT) DESCRIPTION: WATER CLOSET, FLOOR MOUNTED, TANK TYPE, 1.28 GALLON PER FLUSH, VITREOUS CHINA, SIPHON JETTED BOWL, CHROME LEVER TRIP, TWO-PIECE TOILET AMERICAN STANDARD "CADET PRO" 215CA.104. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2166LK. ROUGH-IN: 4" WASTE, 3" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.

GENERAL NOTES:

ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON (UNLESS NOTED TO BE AN ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.

INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE A.D.A. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.

INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

APPROVED EQUAL MANUFACTURERS AND MODEL NUMBERS CAN BE PROVIDED FOR THE MANUFACTURER AND MODEL NUMBERS OF THE FIXTURES AND EQUIPMENT LISTED IN THE ABOVE SPECIFICATIONS.

PLUMBING SPECIFICATIONS

GENERAL

A. PERFORM WORK IN ACCORDANCE WITH APPLICABLE STATUTES, ORDINANCES, CODES AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

B. OBTAIN ALL PERMITS REQUIRED.

C. CONTRACT DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT GIVE FULLY DIMENSIONED LOCATIONS OF VARIOUS ELEMENTS OF WORK. DETERMINE EXACT LOCATIONS FROM FIELD MEASUREMENTS.

D. GUARANTEE WORK FOR 1 YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT. DURING THAT PERIOD MAKE GOOD ANY FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIAL, EQUIPMENT OR WORKMANSHIP. AT THE OWNER'S OPTION, REPLACEMENT OF FAILED PARTS OR EQUIPMENT SHALL BE PROVIDED.

E. PROVIDE FINISHES TO MATCH APPROVED SAMPLES. ALL EXPOSED FINISHES SHALL BE APPROVED BY THE ARCHITECT. SUBMIT COLOR SAMPLES AS REQUIRED

F. PROVIDE EQUIPMENT HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED AND GROUND MOUNTED PLUMBING EQUIPMENT, AND AS SHOWN ON THE DRAWINGS. CONCRETE PADS ARE TO BE 4" THICK UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

G. PROVIDE NAMEPLATES WITH 1/2" HIGH LETTERS AND FASTENED WITH EPOXY OR SCREWS.

H. MAINTAIN QUALITY CONTROL OVER SUPERVISION, SUBCONTRACTORS, SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS AND WORKMANSHIP TO PRODUCE WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS.

I. COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.

J. PERFORM WORK BY PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.

K. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSES, VIBRATION, AND RACKING. UNDER NO CONDITIONS SHALL MATERIAL OR EQUIPMENT BE SUSPENDED FROM STRUCTURAL BRIDGING.

L. COMPLY WITH INSTRUCTIONS IN FULL DETAIL, INCLUDING EACH STEP IN SEQUENCE. SHOULD INSTRUCTION CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT / ENGINEER BEFORE PROCEEDING.

EARTHWORK

A. EXCAVATE AND BACKFILL FOR PIPE TRENCHES FOR UNDERGROUND PIPING, AND EXCAVATE FOR STRUCTURES INSTALLED AS PART OF MECHANICAL WORK.

B. REMOVE EXCESS EXCAVATION MATERIAL OR MATERIAL UNSUITABLE FOR BACKFILL. EXCESS MATERIAL CAN BE SPREAD ON GRADE, OR SHALL BE REMOVED FROM SITE AS DIRECTED BY THE OWNER/ARCHITECT.

PLUMBING FIXTURES AND FIXTURE CARRIERS

ACCEPTABLE MANUFACTURERS:

A. VITREOUS CHINA FIXTURES: AMERICAN STANDARD, ELJER, KOHLER, TOTO, ZURN.

B. PLUMBING FAUCETS: AMERICAN STANDARD, CHICAGO, T&S BRASS, ZURN, SYMMONS, MOEN COMMERCIAL HD

C. SUPPORTS AND CARRIERS: ZURN, J.R. SMITH, WADE, JOSAM, WATTS/ANCON, MIFAB

D. FLUSH VALVES: SLOAN, ZURN, MOEN COMMERCIAL HD

E. SUPPLIES, STOPS AND CHROME PLATED TUBULAR BRASS: MCGUIRE, KOHLER, CHICAGO, ZURN, BRASSCRAFT

F. WATER CLOSET SEATS: BENEKE, CHURCH, OLSONITE, BEMIS, CENTOCO

G. ELECTRIC DRINKING FOUNTAINS: HALSEY TAYLOR, ELKAY, OASIS, HAWS, ACORN AQUA.

H. FLOOR DRAINS: ZURN, J.R. SMITH, JOSAM, WADE, WATTS/ANCON, SIOUX CHIEF, MIFAB

I. CLEANOUTS: ZURN, J.R. SMITH, JOSAM, WADE, WATTS/ANCON, MIFAB

K. STAINLESS STEEL SINKS: ELKAY, JUST

L. MOP SINKS: CRANE FIAT, STERN WILLIAMS, ACORN, CECO

M. THERMOSTATIC MIXING VALVES: LAWLER, SYMMONS, POWERS, HOLBY

O. HOSE BIBBS: CHICAGO, JOSAM, WOODFORD, ZURN, J.R. SMITH, WADE

P. WALL HYDRANTS: WOODFORD, MIFAB, ZURN, J.R. SMITH, JOSAM, WADE

INSTALLATION

A. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

B. PROVIDE NECESSARY STOPS, VALVES, TRAPS, UNIONS, VENTS, COLD WATER, HOT WATER, SANITARY, ETC. FOR A COMPLETE INSTALLATION.

C. REMOVE PIPING AND SERVICES ROUGHED-IN INCORRECTLY AND INSTALL CORRECTLY, WITHOUT COST.

D. EXPOSED PIPING, FITTINGS AND APPURTENANCES SHALL BE CHROME-PLATED BRASS.

E. PROVIDE ISOLATION VALVES IN DOMESTIC WATER LINES TO ISOLATE ALL EQUIPMENT, RESTROOMS, HOSE BIBS, AND WHERE SHOWN ON DRAWINGS.

DOMESTIC WATER PIPING AND APPURTENANCES

A. FURNISH AND INSTALL DOMESTIC HOT AND COLD WATER PIPING.

C. BELOW SLAB ON GRADE PIPING. FURNISH ASTM B 88 AND ANSI/NSF STANDARD 61 COLD DRAWN, TYPE K COPPER WATER TUBE. RUN CONTINUOUS WITH NO JOINTS UNDER THE FLOOR SLAB. PROVIDE COPPER PIPE CORROSION PROTECTION AS SPECIFIED IN THIS SECTION.

D. ABOVE SLAB PIPING: PEX SYSTEM MUST BE LISTED ASTM F876/F877. TUBING SHALL BE LISTED PEX 5006 FOR CHLORINE RESISTANCE FOR CONTINUOUS USAGE UP TO 140°F. ALL TUBING INSTALLED IN RETURN AIR PLENUMS SHALL BE LISTED ASTM E84. THE LISTING MAY BE FOR THE TUBING ITSELF OR FOR THE TUBING INCLUDING INSULATION TO ACHIEVE THE LISTING. THE FITTINGS SHALL BE OF THE SAME MANUFACTURER AS THE TUBING AND THE INSTALLATION INSTRUCTIONS OF THE MANUFACTURER SHALL BE STRICTLY ADHERED TO.

D.1. COPPER MANIFOLD: COMPRISED WITH PIPE SIZE INLET, SPUN CLOSED END AND 1/2" OUTLETS. THE 1/2" OUTLETS ARE BRAZED TO THE HEADER. THESE FITTINGS, AS A SYSTEM ARE PRESSURE RATED AT 160 PSI AT 73°F.

E. WATER HAMMER ARRESTORS: PROVIDE PISTON TYPE HYDRAULIC ENGINEERED/MANUFACTURED WATER HAMMER ARRESTORS IN COLD AND HOT WATER SUPPLY LINES IN CHASES OR WALLS TO EACH FIXTURE BRANCH OR BATTERY OF FIXTURES SERVING QUICK CLOSING VALVES OF ELECTRICAL, PNEUMATIC, SPRING LOADED TYPE, OR QUICK HAND CLOSURE VALVES ON FIXTURE TRIM. PROVIDE WATER HAMMER ARRESTORS AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED. PROVIDE PRECISION PLUMBING PRODUCTS, INC., OR EQUAL. SIZE UNITS ACCORDING TO WATER HAMMER ARRESTOR'S STANDARD PDI WH-201; REFER TO SCHEDULE ON DRAWINGS.

F. AIR CHAMBERS: PROVIDE A MINIMUM 18-INCH LONG AIR CHAMBER, OF THE SAME SIZE AND CONNECTING PIPE MATERIAL AT EACH SINGLE LAVATORY, SINK, DRINKING FOUNTAIN OR FIXTURE THAT DOES NOT HAVE A QUICK-CLOSING VALVE OR ELECTRICAL, PNEUMATIC, SPRING LOADED TYPE, OR FLUSH VALVE. AIR CHAMBERS TO BE USED FOR REMOTE FIXTURES AND NOT MIXED WITH WATER HAMMER ARRESTORS AT GROUP TOILETS.

G. TESTING: TEST UNDER A COLD WATER HYDROSTATIC PRESSURE OF NOT LESS THAN 200 PSI FOR AT LEAST 15 MINUTES AND CAREFULLY CHECK FOR LEAKS. REPAIR LEAKS AND RETEST SYSTEM UNTIL PROVEN WATERTIGHT. USE ONLY POTABLE WATER FOR THE TEST. PERFORM THE TEST BEFORE FIXTURES, FAUCETS, TRIM OR FINAL CONNECTIONS ARE MADE TO EQUIPMENT.

H. COPPER PIPE CORROSION PROTECTION: CORROSION PROTECT COPPER TUBE PIPING SYSTEMS: IN THE BUILDING SLAB.

I. COVER COPPER TUBING PIPING SYSTEM WITH: "TAPECOAT" TC PRIMER. EXTEND THE CORROSION PROTECTION 2 INCHES ABOVE CONCRETE SLAB ON GRADE.

J. STERILIZE THE WATER SYSTEM WITH SOLUTION CONTAINING NOT LESS THAN 50PPM AVAILABLE CHLORINE. ALLOW CHLORINATING SOLUTION TO REMAIN IN SYSTEM FOR PERIOD OF 8 HOURS (MINIMUM). HAVE VALVES AND FAUCETS OPENED AND CLOSED SEVERAL TIMES DURING THE PERIOD. AFTER STERILIZATION, FLUSH THE SOLUTION FROM THE SYSTEM WITH CLEAN WATER UNTIL RESIDUAL CHLORINE CONTENT IS LESS THAN 0.2 PARTS PER MILLION.

INSTANTANEOUS ELECTRIC WATER HEATER

A. ACCEPTABLE MANUFACTURERS: EEMAX, CHRONOMITE, STIEBEL ELTRON

B. PROVIDE TANKLESS, FLOW SWITCH ACTIVATED HEATER.

C. HOT WATER TEMPERATURE RANGE OF 103°F TO 120°F.

D. 0.5 GPM FLOW RATE.

SOIL, WASTE AND SANITARY DRAIN PIPING, VENT PIPING AND APPURTENANCES

B. ABOVE SLAB PIPING: SCHEDULE 40 PVC PLASTIC PIPE AND DWV FITTINGS WITH SOLVENT WELDED JOINTS. PIPE AND FITTINGS SHALL CONFORM TO ASTM D 1784-82.

C. BELOW SLAB ON GRADE PIPING: SCHEDULE 40 PVC PLASTIC PIPE AND DWV FITTINGS. SOLVENT WELDED DWV JOINTS SHALL CONFORM TO IAPMO INSTALLATION STANDARD IS-9. PIPE AND FITTINGS SHALL CONFORM TO ASTM D 1784, ASTM D 1785, ASTM D 2665, ASTM D 3311 AND NPS STANDARD 14 & 61.

E. VENT PIPE AND FITTINGS: ABOVE SLAB PIPING. PROVIDE SCHEDULE 40 PVC PLASTIC PIPE AND DWV FITTINGS WITH SOLVENT WELDED JOINTS. PIPE AND FITTINGS SHALL CONFORM TO ASTM D 1784-82.

F. BELOW SLAB ON GRADE PIPING: SAME AS DRAIN PIPE AND FITTINGS LISTED ABOVE.

G. TESTING: BELOW SLAB ON GRADE AND ALL FLOORS IN MULTI-STORY BUILDINGS: TEST PIPE BELOW SLAB ON GRADE BEFORE BACKFILLING AND CONNECTING TO CITY SEWERS. MAINTAIN NOT LESS THAN 10 FOOT OF HYDROSTATIC HEAD FOR 1 HOUR WITHOUT A LEAK.

H. RODDING SEWERS: ALL SANITARY SOIL AND WASTE LINES, BOTH IN THE BUILDING AND OUT, SHALL BE RODDED OUT AND FLUSHED OUT AFTER COMPLETION OF CONSTRUCTION AND PRIOR TO FINISH FLOOR BEING INSTALLED. ALL WORK MUST BE COMPLETED PRIOR TO SUBSTANTIAL COMPLETION. ALL FLOOR DRAINS AND CLEANOUTS LOCATIONS MUST BE INCLUDED IN THIS WORK.

DOMESTIC WATER INSULATION

A. ELASTOMERIC INSULATION: INSULATION MATERIAL SHALL BE 1/2" FLEXIBLE, CLOSED-CELL ELASTOMERIC INSULATION IN TUBULAR OR SHEET FORM. MATERIAL SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84, LATEST REVISION.

B. FIBERGLASS INSULATION: 1/2" THICK HEAVY DENSITY, DUAL TEMPERATURE FIBERGLASS INSULATION WITH FACTORY APPLIED, ALL SERVICE, REINFORCED VAPOR BARRIER JACKET HAVING INTEGRAL LAMINATED VAPOR BARRIER. PROVIDE WITH A FACTORY APPLIED PRESSURE SENSITIVE TAPE CLOSURE SYSTEM AND MATCHING BUTT STRIPS.

D. COVER ALL COLD & HOT WATER PIPING WITH INSULATION BY SLITTING TUBULAR SECTIONS OR SLIDING UN-SLIT SECTIONS OVER THE OPEN ENDS OF PIPING OR TUBING. SEAMS AND BUTT JOINTS SHALL BE ADHERED AND SEALED USING ADHESIVE.

E. ALL FITTINGS SHALL BE INSULATED WITH THE SAME INSULATION THICKNESS AS THE ADJACENT PIPING. ALL SEAMS AND MITERED JOINTS SHALL BE ADHERED WITH ADHESIVE.

F. INSULATION APPLICATIONS:
INDOOR CONCEALED: ELASTOMERIC
INDOOR EXPOSED: FIBERGLASS
OUTDOOR: ELASTOMERIC WITH WITH TWO COATS OF EITHER WB OR SB ARMAFLEX FINISH OR FOSTER 30-64 ELASTOMER FOAM COATING. ALL SEAMS SHALL BE LOCATED ON THE LOWER HALF OF THE PIPE.

1	ASI-006.1WSJ	12/10/2025

Revisions / Submission

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
12-1-25

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
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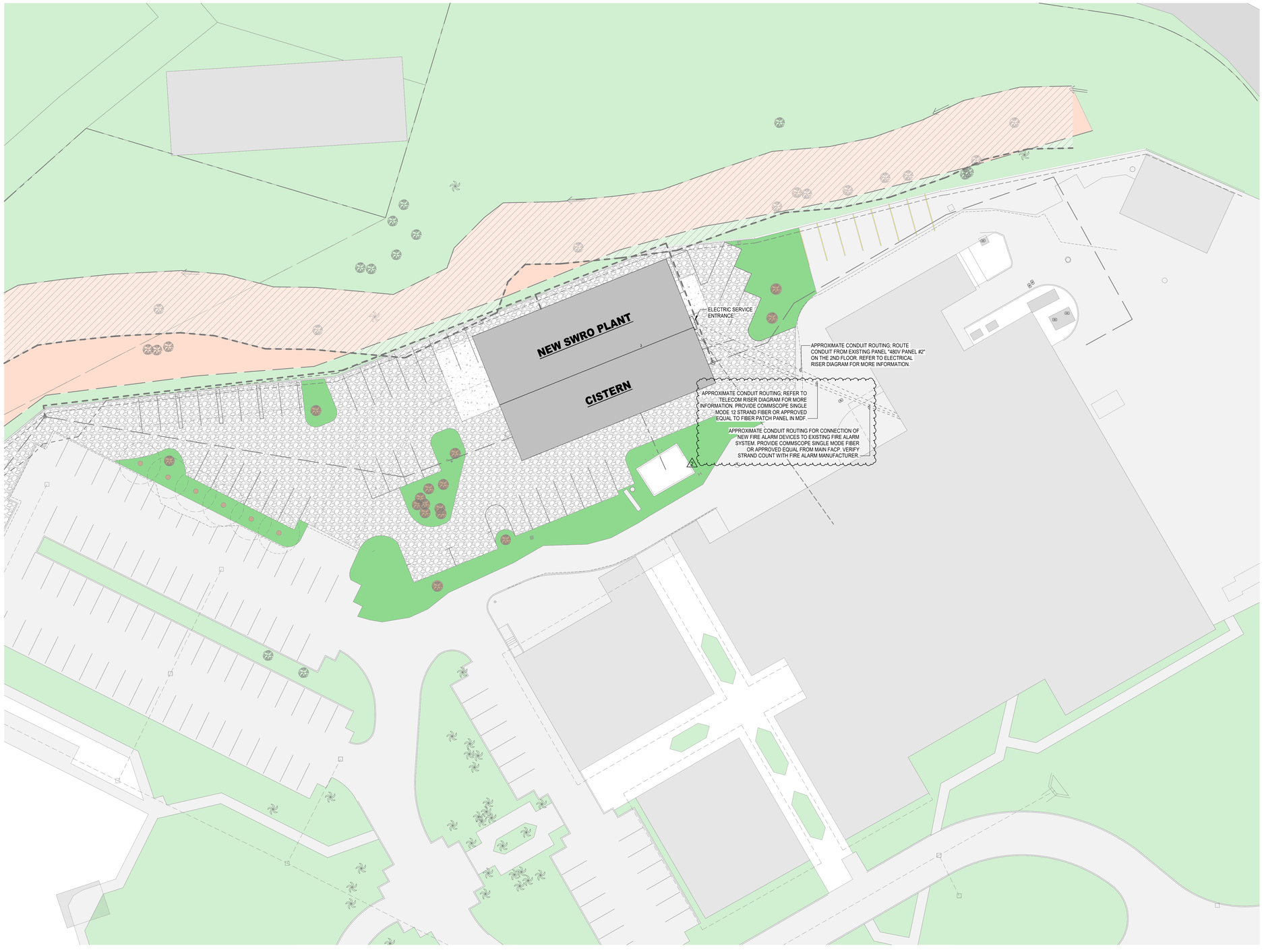
Project Number:	24032.05
Date:	NOVEMBER 14, 2025
Project Architect:	JMH

PLUMBING SCHEDULE AND SPEC - SWRO PLANT

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1 **ELECTRICAL - PROPOSED PLAN - NEW SWRO PLANT**
Scale: 1" = 20'-0"

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2	ASI-006.2-WSJ	01/09/26

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
1-7-26

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

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Project Number:	24032.05
Date:	NOVEMBER 14, 2025
Project Architect:	JMH

ELECTRICAL SITE PLAN - SWRO PLANT

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1 **ELECTRICAL SITE PLAN - INTAKE PUMPS**
Scale: 1" = 40'-0"

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

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TSG WATER RESOURCES
2401 NE 18th Terrace B,
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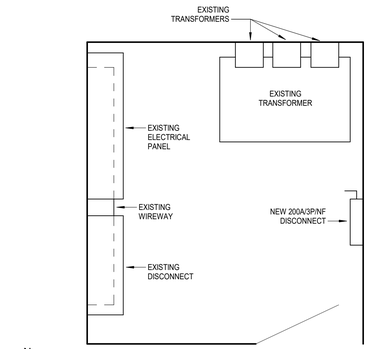
Project Number: 24032.05
Date: NOVEMBER 14, 2025
Project Architect: JMH

ELECTRICAL SITE PLAN - INTAKE PUMP BUILDING

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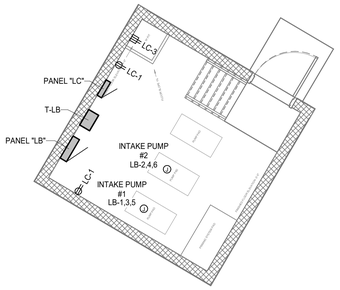
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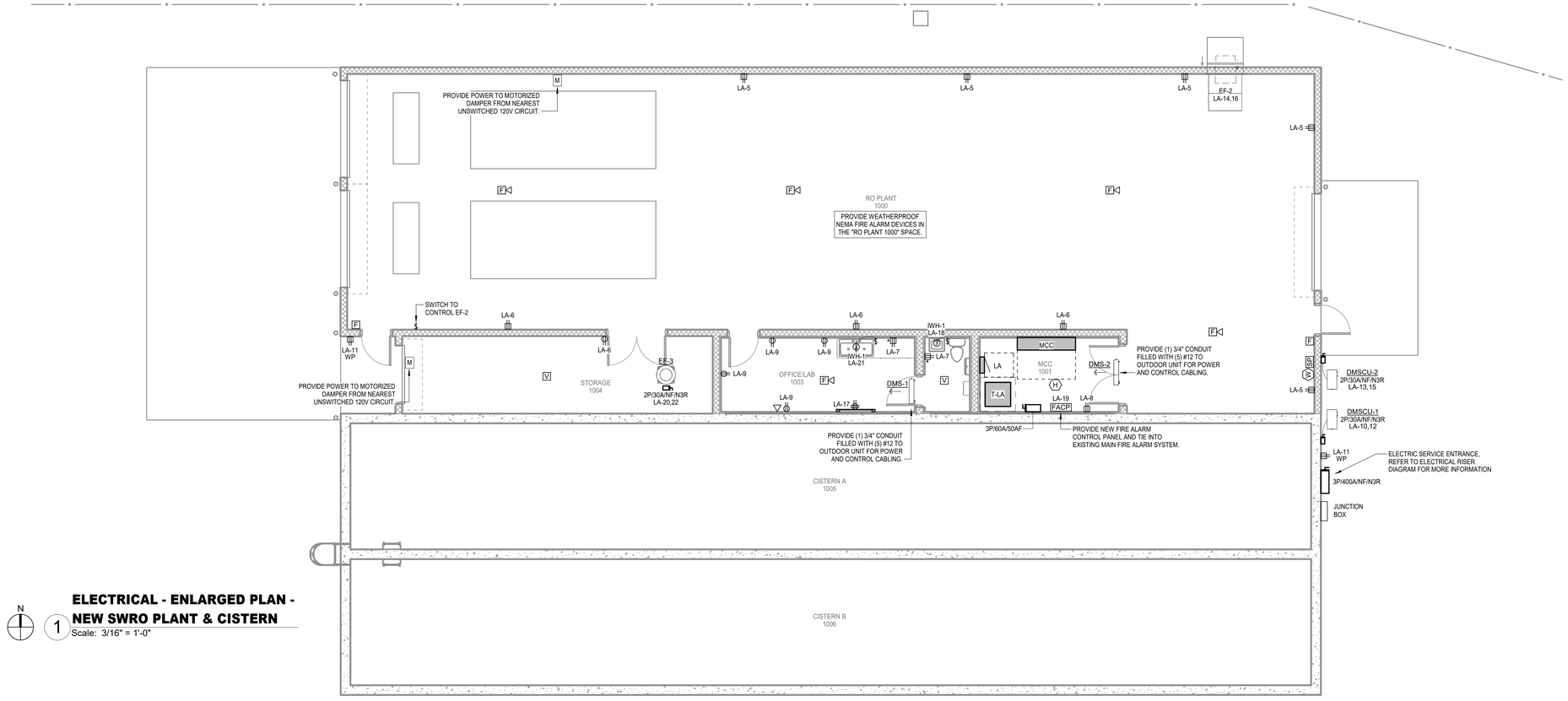
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3 **ELECTRICAL - INTAKE PUMP ELECTRICAL ROOM**
Scale: NTS



N

2 **ELECTRICAL - ENLARGED PLAN - INTAKE PUMP BUILDING**
Scale: 1/4" = 1'-0"



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1 **ELECTRICAL - ENLARGED PLAN - NEW SWRO PLANT & CISTERN**
Scale: 3/16" = 1'-0"

ELECTRICAL GENERAL NOTES: (NOTES APPLY TO ALL SHEETS)

1. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE INDICATED.
2. MOUNT ALL RECEPTACLES AT 18" ABOVE FINISHED FLOOR TO CENTER OF THE COVER PLATE UNLESS OTHERWISE INDICATED.
3. FOR OUTLETS REQUIRING GFCI PROTECTION WHERE THE RECEPTACLE IS CONCEALED SUCH AS IN THE CASE OF A WATER FOUNTAIN OR VENDING MACHINE INSTALLATION, THE CONTRACTOR SHALL PROVIDE A STANDARD RECEPTACLE WITH GFCI CIRCUIT BREAKER IN THE ASSOCIATED PANEL. BLANK FACE GFCI TEST/RESET BUTTONS ARE NOT PERMITTED UNLESS EXPLICITLY LOCATED ON THESE DRAWINGS.
4. FURNISH AND INSTALL ALL EXTERIOR RECEPTACLES WITH WEATHERPROOF COVERS. EXTERIOR RECEPTACLES SHALL BE GFCI TYPE.
5. FOR ALL EXTERIOR ELECTRICAL EQUIPMENT, FURNISH AND INSTALL WITH NEMA 3R ENCLOSURES MINIMUM. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THIS REQUIREMENT AND INFORMATION LOCATED ELSEWHERE IN THE ELECTRICAL DOCUMENTS, THE CONTRACTOR SHALL BID ACCORDING TO THE MOST STRINGENT REQUIREMENT.
6. IN KITCHENS, BREAK ROOMS AND SIMILAR SPACES, THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DOCUMENTS AND LOCATE ELECTRICAL DEVICES AT LOCATIONS AND ELEVATIONS TO BEST SERVE EACH DEDICATED APPLIANCE.
7. VERIFY DOOR SWINGS PRIOR TO INSTALLING LIGHT SWITCHES.
8. GANG ALL SWITCHES SHOWN TO BE INSTALLED AT THE SAME LOCATION UNDER A SINGLE COVER PLATE UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO EXIT SIGNS IN CORRIDORS WHERE THERE IS A CHANGE OF CEILING ELEVATION WITH 10-FEET OF THE EXIT SIGN. THE CONTRACTOR SHALL LOCATE THESE EXIT SIGNS SUCH THAT THEY ARE ON THE LOWER CEILING AND VISIBLE THROUGHOUT THE CORRIDOR SEGMENT.
10. COORDINATE WITH OTHER DISCIPLINES IN THE FIELD TO ENSURE THAT THE INTEGRITY OF FIRE RATED CONSTRUCTION IS PRESERVED WHERE PENETRATING RATED WALLS AND FLOORS.
11. THE CONTRACTOR SHALL ROUTE ALL EXPOSED CONDUIT NEATLY AND TIGHT TO SUPPORTING SURFACES. IN THE EVENT THAT THE OWNER IS NOT SATISFIED WITH WORKMANSHIP, THE CONTRACTOR SHALL MAKE CORRECTIONS AT NO ADDITIONAL COST TO THE OWNER. MC CABLE IS NOT PERMITTED IN EXPOSED AREAS.
12. FOR ALL CONDUIT RUNS SHOWN ON ELECTRICAL DRAWINGS, THE ROUTING IS APPROXIMATE. THE CONTRACTOR SHALL MAKE ROUTING ADJUSTMENTS AS REQUIRED BASED ON FIELD CONDITIONS AND COORDINATION WITH OTHER DISCIPLINES.
13. FOR UNDERGROUND CONDUIT RUNS, PROVIDE (1) PULL BOX FOR EVERY 500-FEET OF CONDUIT LENGTH AND FOR EVERY 360° OF CONDUIT BENDS, UNLESS OTHERWISE INDICATED MORE FREQUENTLY. FOR PULL BOXES LOCATED WITHIN DRIVABLE SURFACES, ENSURE THAT THE PULL BOX IS TRAFFIC RATED. IN THE EVENT THAT A PULL BOX IS REQUIRED ON A UTILITY CONDUIT RUN, ENSURE THAT THE PULL BOX MEETS ALL REQUIREMENTS OF THAT UTILITY.
14. IN THE EVENT THAT THERE IS A DISCREPANCY IN THE MINIMUM CIRCUIT AMPACITY (MCA) AND/OR THE MAXIMUM OVERCURRENT PROTECTION (MOCP) BETWEEN THE DIVISION 26 AND DIVISION 22/23 SCHEDULES, THE CONTRACTOR SHALL BID ACCORDING TO THE MORE STRINGENT REQUIREMENTS.
15. MECHANICAL, PLUMBING, AND OTHER EQUIPMENT FURNISHED AND INSTALLED BY OTHER DIVISIONS IS SHOWN ON ELECTRICAL DRAWINGS FOR CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL REFER TO OTHER DISCIPLINE CONSTRUCTION DOCUMENTS FOR EXACT LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN OF THE ASSOCIATED ELECTRICAL CIRCUITS, DISCONNECTING MEANS, OUTLETS, ETC. AND ADJUST ROUTING AND LOCATIONS ACCORDINGLY.
16. LIGHT FIXTURES, ELECTRICAL OUTLETS AND DISCONNECTING MEANS LOCATED IN MECHANICAL ROOMS AND ATTIC SPACES ARE SHOWN FOR QUANTITY AND CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL LOCATE LIGHT FIXTURES TO BEST ILLUMINATE WALKING AND WORKING SURFACES, AND LOCATE OUTLETS AND DISCONNECTING MEANS SUCH THEY ARE EASILY ACCESSIBLE FOLLOWING THE INSTALLATION OF ALL DEVICES AND EQUIPMENT IN THESE SPACES.
17. ALL MECHANICAL EQUIPMENT SHALL HAVE A RECEPTACLE INSTALLED WITHIN 25-FEET. A SINGLE RECEPTACLE CAN ACCOMPLISH THIS PURPOSE FOR MULTIPLE PIECES OF EQUIPMENT. A RECEPTACLE LOCATED BELOW A LAY-IN CEILING ON THE SAME LEVEL AS A PIECE OF MECHANICAL EQUIPMENT COMPLIES WITH THIS REQUIREMENT. IN THE EVENT THAT FIELD CONDITIONS DICTATE THAT A RECEPTACLE CAN NOT MEET THIS REQUIREMENT FOR ALL OF THE INTENDED PIECES OF EQUIPMENT IN AN AREA ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL RECEPTACLES AS REQUIRED.
18. NEW FIRE ALARM EQUIPMENT TO TIE INTO EXISTING MAIN FIRE ALARM SYSTEM. CONTRACTOR TO VERIFY EXACT LOCATION OF MAIN FIRE ALARM PANEL.

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-12
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
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SWRO PLANT CIVIL ENGINEER
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Gainesville, FL 32609
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Project Architect: JMH

ELECTRICAL FLOOR PLANS - SWRO PLANT & CISTERN

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LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	MODEL	MOUNTING	LAMP TYPE	VOLTAGE	LOAD	REMARKS
A2	LITHONIA	CLX-L96	SURFACE	8,000L LED	120 V	51 W	8' STRIP LIGHT WITH FLAT DIFFUSE LENS.
A	LITHONIA	CLX-L48	SUSPENDED	4,000L LED	120 V	26 W	4' STRIP LIGHT WITH FLAT DIFFUSE LENS. PROVIDE FIXTURE WITH ACCESSORY FOR SUSPENDED MOUNTING.
B	LITHONIA	CLX-L96	SUSPENDED	8,000L LED	120 V	51 W	8' STRIP LIGHT WITH FLAT DIFFUSE LENS. PROVIDE FIXTURE WITH ACCESSORY FOR SUSPENDED MOUNTING.
C	LITHONIA	CLX-L24	SUSPENDED	2,000L LED	120 V	15 W	2' STRIP LIGHT WITH FLAT DIFFUSE LENS. PROVIDE FIXTURE WITH ACCESSORY FOR SUSPENDED MOUNTING.
WP	LITHONIA	WDGE2	WALL	3,216L LED	120 V	32 W	WALL MOUNTED LUMINAIRE WITH TYPE III DISTRIBUTION.
WPE	LITHONIA	WDGE2	WALL	3,216L LED	120 V	32 W	WALL MOUNTED LUMINAIRE WITH TYPE III DISTRIBUTION WITH EMERGENCY BATTERY BACKUP.
X	LITHONIA	EDG	WALL	LED	120 V	3 W	UNIVERSAL LED EXIT SIGN MOUNTED WITH RED LETTERING AND EMERGENCY BATTERY BACK-UP.
X2	LITHONIA	EDG	SURFACE	LED	120 V	3 W	UNIVERSAL LED EXIT SIGN WITH RED LETTERING AND EMERGENCY BATTERY BACK-UP.

1	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "E" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AE, C2E, TE") AND/OR A HALF SHADED REGION SHALL BE THE BASE FIXTURE TYPE EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
2	ALL REQUIRED TEST SWITCHES FOR THE BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE.
3	REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
4	UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER SHALL SELECT ALL FINISHES, COLORS, AND TRIMS.
5	ALL LED FIXTURE BOARDS AND DRIVERS SHALL BE OF THE LATEST GENERATION, BASED UPON THE INDIVIDUAL MANUFACTURER'S STATED LITERATURE. IF A "GEN 5" IS AVAILABLE, "GEN 4" FIXTURES ARE NOT ACCEPTABLE.
6	EXIT SIGNS AND EMERGENCY BATTERY BACK-UPS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AS REQUIRED TO MAINTAIN THE BATTERIES AT FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED.
7	LIGHTING FIXTURE MANUFACTURERS OTHER THAN THOSE LISTED IN THE LIGHTING FIXTURE SCHEDULE AND DESIRING TO BID THIS PROJECT SHALL REQUEST PRIOR APPROVAL OF THE FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEETS.
8	FOR PRIOR APPROVALS AND SUBMITTALS THAT DEVIATE FROM NOMINAL WATTAGE AND/OR DELIVERED LUMENS, IT SHALL BE UP THE ENGINEER'S SOLE DISCRETION TO APPROVE OR DECLINE THESE FIXTURES BASED ON ANY AND ALL FACTORS INCLUDING BUT NOT LIMITED TO INTENDED LIGHTING LEVELS FOR EACH SPACE AND IMPACT ON THE OVERALL ELECTRICAL POWER SYSTEM.
9	ALL LIGHTING SPECIFIED SHALL BE 4000K UNLESS NOTED OTHERWISE.
10	THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.
11	WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED. OTHERWISE PROVIDE AS INDICATED IN SCHEDULE.
12	FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.
13	ALL EXTERIOR LIGHT FIXTURES NOT RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET FROM ABOVE LOCATION.

GENERAL LIGHTING PLAN NOTES:

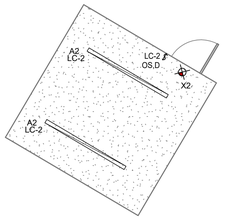
1. CIRCUIT LIGHT FIXTURES TO THE CIRCUIT AS IDENTIFIED NEAR THE ASSOCIATED CONTROLS AND/OR FIXTURE.
2. UNLESS OTHERWISE INDICATED, LIGHT FIXTURES SHALL BE CONTROLLED BY THE SWITCH AND/OR OCCUPANCY SENSOR(S) LOCATED IN THE SAME SPACE.
3. IN SPACES WITH MORE COMPLEX SWITCHING REQUIREMENTS, LOWERCASE LETTERS NEAR THE FIXTURES AND SWITCHES INDICATE THE CONTROL SCHEME.
4. WHERE MULTIPLE OCCUPANCY SENSORS ARE ILLUSTRATED IN THE SAME AREA OR WITH THE SAME CONTROL ZONE DESIGNATION, MOTION DETECTION BY ANY ONE OCCUPANCY SENSOR SHALL ILLUMINATE ALL LIGHTING IN THE RESPECTIVE AREA OR ZONE.

LIGHTING CONTROL DEVICE PROGRAMMING:

1. PROGRAM ALL INTERIOR OCCUPANCY ZONES TO MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE NOTED:
   A. AUTOMATIC ON: SET FOR 50% BRIGHTNESS UPON SPACE OCCUPANCY
   B. AUTOMATIC OFF: SET FOR 20 MINUTES AFTER AREA VACANCY
   C. MANUAL OFF: INCLUDE A WALL-MOUNTED MANUAL DIMMER WITH MANUAL ON/OFF BUTTON FOR SPACES WITH CEILING MOUNTED OCCUPANCY SENSOR(S). FOR SPACES WITH WALL-MOUNTED OCCUPANCY SENSOR(S), FURNISH A SENSOR THAT HAS A MANUAL DIMMER WITH MANUAL ON/OFF BUTTON.
2. PROGRAM WAREHOUSE OCCUPANCY ZONES SUCH THAT THE LIGHT LEVELS ARE REDUCED TO 50% BRIGHTNESS 20 MINUTES AFTER WAREHOUSE VACANCY. CORRIDORS SHALL BE FULL BRIGHTNESS DURING OCCUPANCY.
3. PROGRAM TIMECLOCK SUCH THAT CIRCUIT LA-4 IS OFF FROM THE HOURS OF MIDNIGHT TO 6AM. CIRCUIT LA-3 SHALL REMAIN ON DURING THESE HOURS.

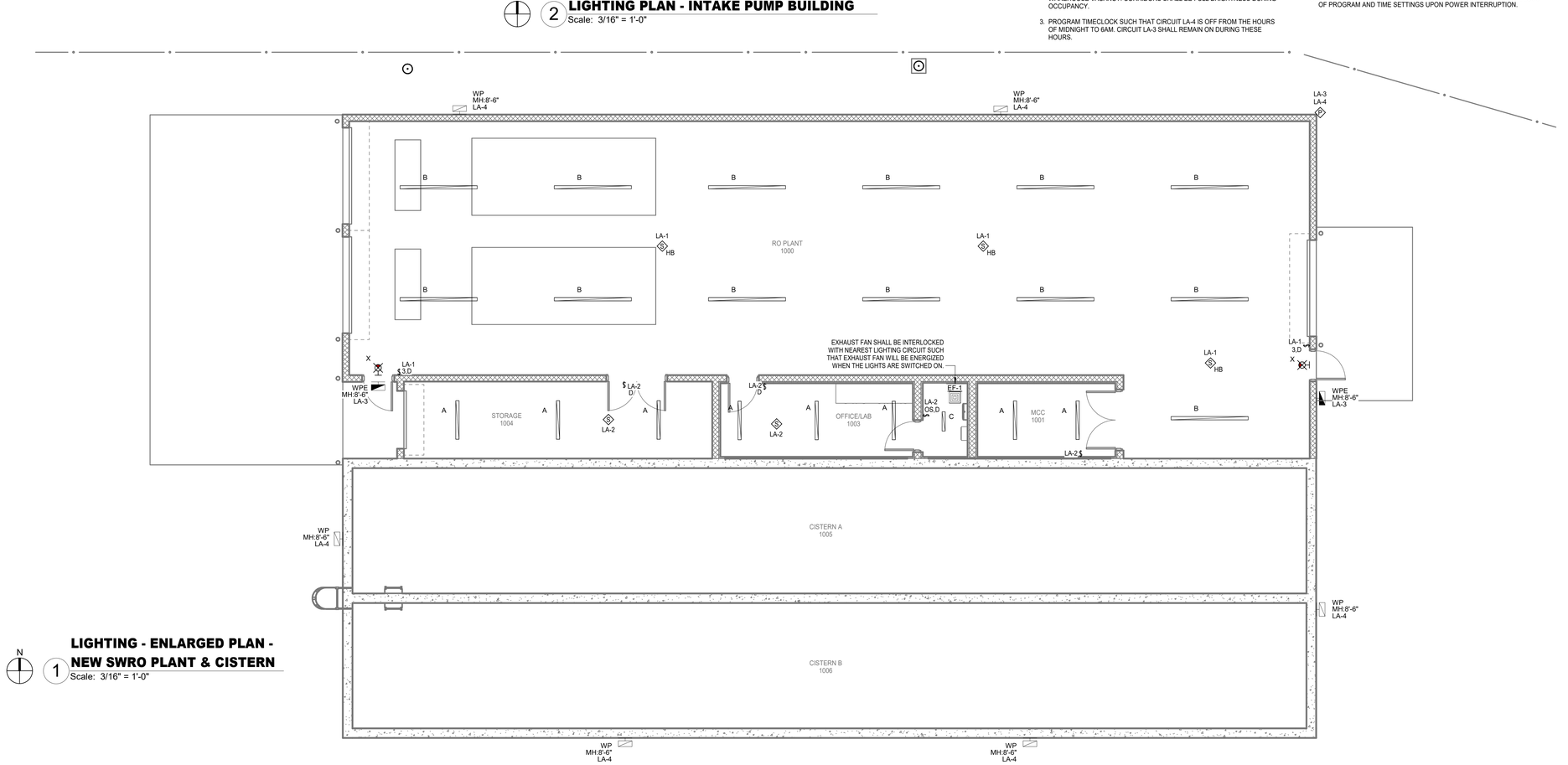
LIGHTING CONTROL DEVICE REQUIREMENTS:

1. ALL LIGHTING DEVICES SHALL BE IECC 2021 COMPLIANT. LIGHTING CONTROLS SHALL BE CAPABLE OF BEING PROGRAMMED TO PERFORM ALL OCCUPANCY, LIGHT-REDUCTION AND OTHER FUNCTIONS AS OUTLINED IN THE 2021 IECC.
2. IN ALL SPACES ON THIS DRAWING, UNLESS OTHERWISE NOTED, PROVIDE OCCUPANCY SENSORS AND WALL-MOUNTED DIMMABLE USER-INPUT DEVICES. EACH WALL-STATION DIMMER SWITCH SHALL BE CAPABLE OF CONTINUOUS DIMMING FROM FULL OUTPUT DOWN TO THE MINIMUM OUTPUT RATING OF EACH FIXTURE'S DRIVER (0.1%, 1%, ETC.).
3. PROVIDE 0-10V DIMMING CABLES FROM LIGHTING CONTROLS TO EACH FIXTURE IN THE ASSOCIATED ZONE FOR DIMMING CAPABILITY. FIXTURES WHICH UTILIZE DIMMING TECHNOLOGY OTHER THAN 0-10V ARE IDENTIFIED IN THE LIGHT FIXTURE SCHEDULE.
4. PROVIDE MANUAL ON/OFF SWITCHES WITHOUT DIMMING FUNCTIONALITY IN ELECTRICAL AND MECHANICAL ROOMS.
5. PROVIDE A TIMECLOCK FOR EXTERIOR LIGHTING CONTROL ZONES WITH THE NUMBER OF CONTACTS AS REQUIRED PER THE NUMBER OF CONTROL ZONES ON DRAWINGS PLUS A MINIMUM OF 25% SPARE CONTACTS.
6. PROVIDE A BUILDING MOUNTED PHOTOCELL INTERFACED WITH THE TIMECLOCK FOR AUTOMATIC SHUTOFF OF EXTERIOR LIGHT FIXTURES WHEN SUFFICIENT DAYLIGHT IS PRESENT.
7. TIMECLOCK FUNCTIONALITY:
   A. SHALL BE CAPABLE OF BEING PROGRAMMED FOR 7 DAYS, AND CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK
   B. SHALL INCORPORATE AN AUTOMATIC HOLIDAY SETBACK FEATURE
   C. SHALL HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS UPON POWER INTERRUPTION.



N

2 **LIGHTING PLAN - INTAKE PUMP BUILDING**
Scale: 3/16" = 1'-0"



N

1 **LIGHTING - ENLARGED PLAN - NEW SWRO PLANT & CISTERN**
Scale: 3/16" = 1'-0"

Revisions / Submission

The drawings, specifications and other documents prepared by the Architect for this project are instruments of the Architect's service for use solely with respect to this project and, unless otherwise provided, the architect shall be deemed the author of those documents and shall retain all common law, statutory and other reserved rights, including reproducible copies, of the Architect's drawings, specifications and other documents for information and reference in connection with the Owner's use and occupancy of the project. The Architect's drawings, specifications and other documents shall not be used by the Owner or others on other projects, for additions to this project or for completion of this project by others, unless the Architect is adjudged to be in default under this agreement, except by agreement in writing and with appropriate compensation to the Architect.

PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038
935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

Project Number: 24032.05
Date: NOVEMBER 14, 2025
Project Architect: JMH

ELECTRICAL LIGHTING PLANS - SWRO PLANT & CISTERN

E2.01

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Branch Panel: LA

Location: MCC 1001 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 100A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
	1	LTG - WAREHOUSE	#12	20	1	0.7 / 0.2			1	20	#12	LTG - OFFICE/MCC/STORAGE	2	
	3	LTG - EXTERIOR	#12	20	1		0.1 / 0.3		1	20	#12	LTG - EXTERIOR	4	
	5	REC - WAREHOUSE	#12	20	1			0.9 / 0.7	1	20	#12	REC - WAREHOUSE/STORAGE	6	
	7	REC - OFFICE/RESTROOM	#12	20	1	0.4 / 0.2			1	20	#12	REC - MCC	8	
	9	REC - OFFICE	#12	20	1		0.7 / 0.7						10	
	11	REC - EXTERIOR	#12	20	1			0.4 / 0.7	2	15	#12	DMSCU-1	12	
	13					0.7 / 1.3							14	
	15	DMSCU-2	#12	15	2		0.7 / 1.3		2	20	#12	EF-2	16	
	17	TTB	#12	20	1			0.4 / 0.5	1	15	#12	IWH-1	18	
	19	FIRE ALARM CONTROL PANEL	#12	20	1	0.5 / 0.4							20	
	21	IWH-1	#12	15	1		0.5 / 0.4		2	20	#12	EF-3	22	
--	23	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	24	--
--	25	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	26	--
--	27	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	28	--
--	29	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	30	--
--	31	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	32	--
--	33	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	34	--
--	35	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	36	--
--	37	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	38	--
--	39	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	40	--
--	41	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	42	--
			Total Load:			4.4 kVA	4.8 kVA	3.6 kVA						
			Total Amps:			37 A	41 A	30 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2.9 kVA	100.00%	2.9 kVA		
Lighting	1.3 kVA	125.00%	1.6 kVA	**Total Conn. Load:**	12.7 kVA
Miscellaneous	4.9 kVA	100.00%	4.9 kVA	**Total Est. Demand:**	13.0 kVA
Receptacles	3.6 kVA	100.00%	3.6 kVA	**Total Conn. Current:**	35 A
				Total Est. Demand Current:	36 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: LB

Location: INTAKE PUMPS 1006 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 10,000
Supply From: | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 200A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
	1					11.1 / 11.1							2	
	3	INTAKE PUMP#1	#6	60	3		11.1 / 11.1		3	60	#6	INTAKE PUMP#2	4	
	5							11.1 / 11.1					6	
	7	XFMR "T-LB"	#12	15	2	0.5 / 0.0			1	20	--	SPARE	8	--
	9						0.2 / 0.0		1	20	--	SPARE	10	--
--	11	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	12	--
--	13	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	14	--
--	15	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	16	--
--	17	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	18	--
			Total Load:			22.6 kVA	22.3 kVA	22.1 kVA						
			Total Amps:			82 A	81 A	80 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0.1 kVA	125.00%	0.1 kVA		
Motor	66.4 kVA	100.00%	66.4 kVA	**Total Conn. Load:**	67.1 kVA
Receptacles	0.5 kVA	100.00%	0.5 kVA	**Total Est. Demand:**	67.1 kVA
				Total Conn. Current:	81 A
				Total Est. Demand Current:	81 A

Notes:

Abbreviations:

Branch Panel: LC

Location: INTAKE PUMPS 1006 | **Volts:** 120/240 Single | **A.I.C. Rating:** 10,000
Supply From: T-LB | **Phases:** 1 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 3 | **Mains:** 30A
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	Breaker		Wire	Circuit Description	CKT	Note
	1	REC - GENERAL	#12	20	1	0.4 / 0.1		1	20	#12	LIGHTING	2	
	3	REC - SUMP PUMP	#12	20	1		0.2 / 0.0	1	20	--	SPARE	4	--
--	5	SPARE	--	20	1	0.0 / 0.0		1	20	--	SPARE	6	--
			Total Load:			0.5 kVA	0.2 kVA						
			Total Amps:			4 A	2 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0.1 kVA	125.00%	0.1 kVA		
Receptacles	0.5 kVA	100.00%	0.5 kVA	**Total Conn. Load:**	0.6 kVA
				Total Est. Demand:	0.7 kVA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 A

Notes:

Abbreviations:

FIRE DETECTION AND ALARM REQUIREMENTS:

THE DEVICE LOCATIONS AND QUANTITIES SHOWN ON THE DRAWINGS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. SEE THE PROJECT SPECIFICATIONS FOR A COMPLETE DESCRIPTION AND LOCATION OF REQUIRED NOTIFICATION AND INITIATION APPLIANCES. ADDITIONAL CODE REQUIRED DEVICES SHALL BE INCLUDED IN THE PROJECT BID AS DETERMINED BY THE CERTIFIED FIRE ALARM PLANNING SUPERINTENDENT.

FIRE ALARM DESIGN PLANS SHALL BE SUBMITTED TO AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO INSTALLATION AND THE INSTALLATION MUST BE APPROVED BEFORE THE CERTIFICATE OF OCCUPANCY MAY BE ISSUED.

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL III IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, NFPA 72, NFPA 101, IBC 2015 EDITION, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
SWITCHES	
$	LINE VOLTAGE SINGLE POLE SWITCH.
$OS	LINE VOLTAGE WALL MOUNTED SWITCH WITH OCCUPANCY SENSOR. AUTO ON/AUTO OFF.
$D	LINE VOLTAGE WALL DIMMER SWITCH, SIZE AND TYPE AS REQUIRED.
$3	LINE VOLTAGE 3-WAY SWITCH.
LOW VOLTAGE LIGHTING CONTROLS	
(S)	CEILING MOUNTED OCCUPANCY SENSOR, AUTO ON/AUTO OFF.
(P)	CEILING MOUNTED PHOTO SENSOR.
RECEPTACLES AND OUTLETS	
	DUPLEX RECEPTACLE
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	ROUGH-IN DATA OUTLET WITH 1/2" CONDUIT WITH PULL WIRE TO AN ACCESSIBLE LOCATION ABOVE CEILING.
MOTOR CONTROLLERS AND EQUIPMENT	
	DISCONNECT SWITCH AS REQUIRED
ELECTRICAL EQUIPMENT	
	ELECTRICAL DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
CIRCUITING	
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES WEATHERPROOF
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

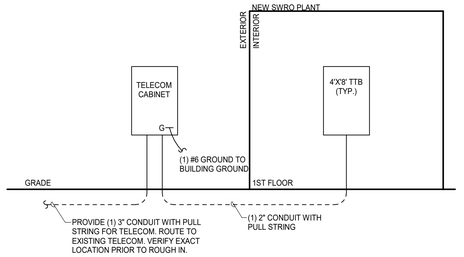
GENERAL NOTES:
-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM.

FIRE ALARM SYMBOL SCHEDULE

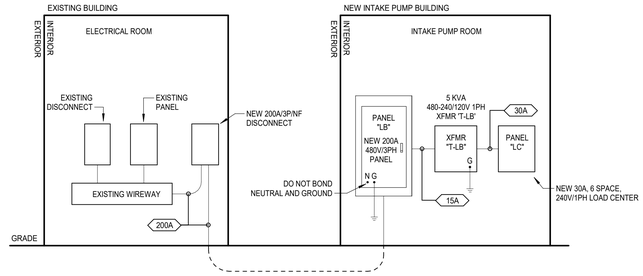
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
FACP	FIRE ALARM SYSTEM CONTROL PANEL
F	FIRE ALARM SYSTEM MANUAL PULL STATION
F	FIRE ALARM SYSTEM AUDIBLE/VISUAL NOTIFICATION APPLIANCE, AUDIBLE SIGNAL SHALL BE PROVIDED TO MATCH THE REQUIRE FIRE ALARM OR VOICE EVACUATION SYSTEM
V	FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE
W	WATERFLOW SWITCH
SP	FIRE SPRINKLER SUPERVISORY/TAMPER SWITCH
SD	FIRE ALARM SYSTEM HEAT DETECTOR

FIRE ALARM GENERAL NOTES:

1. THE FIRE ALARM SYSTEM FOR THIS BUILDING SHALL BE AUTOMATICALLY ACTIVATED BY THE SPRINKLER SYSTEM AND ANY SMOKE DETECTORS SHOWN. IN ADDITION TO MANUAL ACTIVATION BY PULL STATIONS.
2. THE FIRE ALARM SYSTEM FOR THIS BUILDING SHALL BE A VOICE EVACUATION SYSTEM WITH A VOICE EVACUATION PANEL AND AUDIBLE SPEAKER NOTIFICATION APPLIANCES FOR RECORDED AND LIVE EVACUATION INSTRUCTIONS.
3. PROVIDE FIRE SPRINKLER SUPERVISORY/TAMPER SWITCHES AT ALL LOCATIONS AS REQUIRED BY THE DELEGATED DESIGN SPRINKLER SYSTEM. NOT ALL OF THESE LOCATIONS ARE DEPICTED ON THE FIRE ALARM DRAWINGS.



2 TELECOM RISER DIAGRAM
Scale: NTS

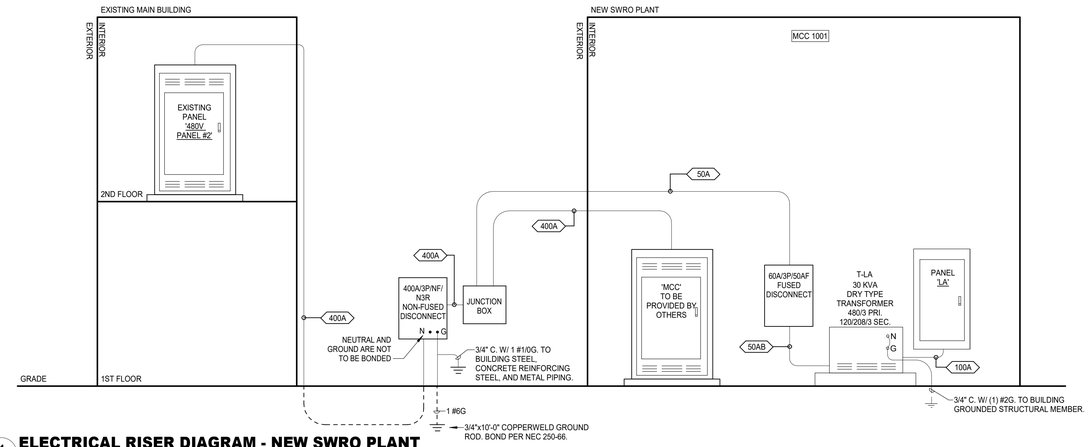


FEEDER SCHEDULE

AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
15A	1	(2) #12	#12	1/2"C
30A	1	(3) #10	8#10	1/2"C
50A	1	(4) #8	#10	3/4"C
50AB	1	(3) #8	#8	3/4"C
100A	1	(4) #3	#8	1-1/4"C
200A	1	(4) #3/0	#6	2-1/2"C
400A	1	(4) 500 KCMIL	#3	3"C

1. CONDUIT SIZE AND QUANTITIES ARE BASED ON 3-PHASE 4-WIRE SYSTEMS. CONDUIT SIZE IS PERMITTED TO BE REDUCED BY THE CONTRACTOR AS PREMITTED BY THE NEC FOR THE REDUCED NUMBER OF CONDUCTORS THAT ARE TYPICAL FOR EQUIPMENT THAT IS SINGLE PHASE OR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL CONDUCTOR.
2. CONDUCTOR SIZES BASED ON NEC TABLE 310.16 - COPPER 75°
3. GROUND SIZES BASED ON NEC TABLE 250.122 – COPPER, UNLESS NOTED OTHERWISE. FEEDER TAGS WITH 'SE' REFERS TO SERVICE ENTRANCE CONDUCTORS AND GROUND SIZES BASED ON NEC TABLE 250.66 – COPPER
4. CONDUIT FILL BASED ON NEC ANNEX C.

3 ELECTRICAL RISER DIAGRAM - INTAKE PUMPS
Scale: NTS



1 ELECTRICAL RISER DIAGRAM - NEW SWRO PLANT
Scale: NTS

Revisions / Submission

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-12
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com
3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414
3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038
935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
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Project Number: 24032.05
Date: NOVEMBER 14, 2025
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ELECTRICAL SCHEDULES AND DETAILS

E3.00

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ELECTRICAL SPECIFICATIONS:

GENERAL

A. VERIFY ALL JOB SITE AND ARCHITECTURAL PLAN DIMENSIONS. REPORT ALL DISCREPANCIES TO ARCHITECT.

B. CONTRACTOR SHALL INITIATE CONTACT WITH THE POWER COMPANY (RETAIL SELLER), UTILITY (TRANSMISSION AND DISTRIBUTION) AND OWNER WITHIN 14 DAYS OF NOTICE TO PROCEED TO ENSURE PERMANENT POWER WILL BE AVAILABLE TO THE SITE. AND DELAYS RESULTING FROM LACK OF THIS COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

C. UNLESS OTHERWISE NOTED, CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES AND CHARGES REQUIRED.

D. VISITING THE SITE: EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND SHALL FULLY INFORM HIMSELF REGARDING THE LOGISTICS AND UTILITIES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK OR MATERIAL OMITTED FROM THE BIDDER'S CONTRACT PROPOSAL DUE TO HIS FAILURE TO SO INFORM HIMSELF BY SUCH INVESTIGATION.

E. ALL CUTTING AND PATCHING OF ROOF, FLOOR, CEILING AND WALLS SHALL BE COMPLETED BY OR COORDINATED WITH GENERAL CONTRACTOR.

F. FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS INDICATED IN THE CONSTRUCTION DOCUMENTS. ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT, UNLESS NOTED OTHERWISE.

G. CONTRACTOR SHALL COMPLY WITH ALL GOVERNING CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION AGENCY (NFPA) AND LOCAL AUTHORITY HAVING JURISDICTION (AHJ).

CONDUIT

A. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT COMPLYING WITH THE NEC. CONDUIT SHALL BE U.L. LISTED. APPLICABLE USE FOR CONDUIT TYPES AS FOLLOWS:

1. EMT (ELECTRIC METALLIC TUBING) - INTERIOR CONCEALED OR EXPOSED.
2. GRC (GALVANIZED RIGID CONDUIT) - EXTERIOR EXPOSED. UNDERGROUND ELBOWS AND RISES.
3. PVC (POLYVINYL CHLORIDE) - UNDERGROUND OR UNDER SLAB.
4. LIQUIDTIGHT FLEXIBLE METAL CONDUIT - SHALL BE USED AT ALL MOTOR CONNECTIONS OR WHERE MOVEMENT OR VIBRATION IS A CONCERN FOR EXTERIOR EQUIPMENT CONNECTIONS. LENGTH NOT TO EXCEED 3 FEET.
5. FLEXIBLE STEEL CONDUIT - SHALL BE USED WHERE MOVEMENT OR VIBRATION IS A CONCERN FOR INTERIOR EQUIPMENT CONNECTIONS. LENGTH NOT TO EXCEED 3 FEET.
6. MC CABLE (METAL CLAD) - MC CABLE IS PERMITTED AND SHALL COMPLY WITH NEC 330 AND BE INSTALLED IN LOCATIONS APPROVED BY LOCAL AHJ. MC CABLE NOT ALLOWED FOR EQUIPMENT CONNECTIONS. SUPPORT AND BUNDLE NEATLY ABOVE CEILING WITH BRIDLE RINGS OR J-HOOKS.

B. MINIMUM CONDUIT SIZE. NOT UNDERGROUND OR UNDER SLAB, SHALL BE 1/2 INCH.
MINIMUM CONDUIT SIZE FOR UNDERGROUND OR UNDER SLAB SHALL BE 3/4 INCH.

C. CONDUIT FILL SHALL NOT EXCEED 40% PER NEC.

D. CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE, FRAMING, JOIST, ETC. PROVIDE HANGERS, SUPPORTS AND FASTENINGS AS REQUIRED BY NEC. DO NOT SUPPORT FROM ROOF DECK OR SUSPENDED CEILING SYSTEM. IN NO INSTANCE, SHALL CONDUIT BE INSTALLED WITHIN 6 INCHES OF ROOF DECK.

E. ALL CONDUIT FITTINGS SHALL BE STEEL, SET SCREW OR COMPRESSION TYPE AND U.L. LISTED. PLASTIC BUSHINGS REQUIRED FOR ALL CONDUIT, 1 INCH AND LARGER.

ELECTRICAL BOXES & FITTINGS

A. INTERIOR OUTLET BOXES: PROVIDE GALVANIZED STEEL WIRING BOXES, OF THE TYPE, SHAPE, AND SIZE, INCLUDING DEPTH OF BOX, TO SUIT RESPECTIVE LOCATIONS AND INSTALLATION. BOXES SHALL HAVE STAMPED KNOCKOUTS IN BACK AND SIDES. PROVIDE APPROPRIATE PLASTER RINGS AND COVERS AS REQUIRED. PROVIDE GANG BOXES WHERE DEVICES ARE SHOWN GROUPED.

B. EXTERIOR OUTLET BOX: PROVIDE OUTLET BOX FLUSH WITH EXTERIOR WALL AND WITH CAST ALUMINUM WEATHERPROOF COVER. PROVIDE "IN USE" TYPE COVERS WHERE NOTED. SURFACE MOUNT BOXES SHALL BE NEMA 3R CAST ALUMINUM TYPE WITH THREADED CONDUIT HUBS.

C. FLOOR BOXES: GENERAL USE FLOOR BOXES CAN BE OF PLASTIC CONSTRUCTION, UNLESS NOTED OTHERWISE, WITH METAL TRIMS, FLANGES AND COVERS AS REQUIRED. COORDINATE TRIM FINISHES WITH ARCHITECT. SPECIAL USE BOXES SHALL BE SPECIFIED AS NOTED ON DRAWINGS. SUBMIT ALL BOXES AND ACCESSORIES FOR APPROVAL.

D. INGROUND PULL/SPLICE BOXES: BOXES SHALL BE CONSTRUCTED OF COMPOSITE POLYMER CONCRETE REINFORCED WITH FIBERGLASS. PROVIDE OPEN BOTTOM BOX COMPLETE WITH COVER AND APPROPRIATE LOGO. UNLESS NOTED OTHERWISE, MINIMUM BOX DIMENSIONS, COVER TYPE AND USE SHALL BE SPECIFIED AS NOTED ON DRAWINGS. ALL BOXES ASSOCIATED WITH UTILITY SERVICES SHALL BE PROVIDED AND INSTALLED PER PROVIDER ENTITY STANDARDS. SUBMIT ALL BOXES AND ACCESSORIES FOR APPROVAL.

INSTALLATION OF BOXES AND FITTINGS

A. INSTALL ELECTRICAL BOXES AND FITTINGS AS SHOWN AND AS REQUIRED IN COMPLIANCE WITH NEC AND MANUFACTURER'S RECOMMENDATIONS.

B. JUNCTION/PULL BOXES: BOXES SHALL BE SECURED TO ROOF STRUCTURE. ALL JUNCTION/PULL BOX OPENINGS SHALL BE SIDE OR BOTTOM ACCESSIBLE.

C. PROVIDE EACH OUTLET/SPLICE BOX WITH A GROUNDING PIGTAIL. FACTORY MANUFACTURED PIGTAIL SHALL HAVE BOLTED CONNECTION TO BOX.

D. UNLESS NOTED OR DIRECTED OTHERWISE AT INSTALLATION, PLACE OUTLET BOXES AS INDICATED ON ARCHITECTURAL ELEVATIONS AND AS REQUIRED BY LOCAL CODES.

E. OUTLETS ABOVE COUNTERS: MOUNT LONG AXIS HORIZONTALLY. REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE TO CLEAR BACKSPLASH AND MILLWORK.

F. BOXES FOR ANY CONDUIT SYSTEM SHALL NOT BE SECURED TO SUSPENDED CEILING SYSTEM, HVAC DUCTWORK OR PIPING SYSTEMS.

G. PROVIDE JUNCTION AND PULL BOXES FOR FEEDERS AND BRANCH CIRCUITS WHERE SHOWN AND/OR WHERE REQUIRED BY NEC.

H. ALIGN ADJACENT WALL MOUNTED OUTLETS, UNLESS NOTED OTHERWISE.

I. ALL BOXES SHALL BE ACCESSIBLE AS PER NEC. IF A BOX IS REQUIRED ABOVE INACCESSIBLE CEILING, COORDINATE USE OF AN ACCESS PANEL WITH ARCHITECT.

J. OUTLET BOX SUPPORTS: OUTLET BOXES SHALL UTILIZE MOUNTING BRACKETS FOR INSTALLATION IN STUD WALLS AND WHERE FLUSH WITH CEILINGS. PROVIDE BRACKET OF THE TYPE THAT SHALL BE FASTENED ON EACH END.

PANELBOARDS

A. GENERAL: ALL PANELBOARDS SHALL BE DEAD-FRONT SAFETY-TYPE EQUIPPED WITH MOLDED CASE CIRCUIT BREAKERS AS SHOWN AND SCHEDULED. LOAD CENTER CONSTRUCTION IS NOT ACCEPTABLE. PROVIDE ENGRAVED TAG DENOTING PANEL NAME.

B. CIRCUIT BREAKERS: CIRCUIT BREAKERS SHALL BE MOLDED CASE, THERMAL MAGNETIC TYPE. PROVIDED WITH INDIVIDUALLY INSULATED, BRACED, AND BOLTED CONNECTIONS. THE FRONT FACES OF CIRCUIT BREAKERS SHALL BE FLUSH WITH EACH OTHER. TRIPPED INDICATION SHALL BE SHOWN BY THE BREAKER HANDLE TAKING A POSITION BETWEEN ON AND OFF. MAKE PREPARED SPACE PROVISIONS FOR ADDITIONAL BREAKERS SUCH THAT NO ADDITIONAL HARDWARE WILL BE REQUIRED TO ADD BREAKERS. TWO AND THREE POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIPS AND FACTORY EXTERNAL HANDLE. ALL ADJUSTABLE TRIP CIRCUIT BREAKERS REQUIRE A COORDINATION STUDY TO DETERMINE AND DOCUMENT TRIP SETTINGS. ALL CIRCUIT BREAKER SHALL BE PROVIDED WITH AIC BRACING EQUAL TO OR GREATER THAN THAT OF THE PANELBOARD RATING. SERIES RATED BREAKERS NOT ALLOWED.

C. PANELBOARD ENCLOSURES: PROVIDE SHEET STEEL ENCLOSURES, NEMA TYPE AS SCHEDULED, MINIMUM 16-GAUGE NOMINAL THICKNESS. PANELBOARDS 600 AMPS AND BELOW PROVIDE FRONTS WITH HINGED DOOR IN DOOR TYPE, INTERIOR HINGED TRIM AND FLUSH LOCK AND KEY. ALL PANELBOARD ENCLOSURES SHALL BE KEYED ALIKE AND SHALL MATCH THE OWNER'S STANDARD KEY SYSTEM IF APPLICABLE. COORDINATE WITH OWNER ENCLOSURE SHALL BE RECESSED OR SURFACE MOUNTED AS SCHEDULED. ENCLOSURES SHALL BE FABRICATED BY THE SAME MANUFACTURER AS PANELBOARDS INTERIORS. MULTI-SECTION PANELBOARDS SHALL HAVE SAME PHYSICAL DIMENSIONS AND BE PROVIDED WITH FEED-THRU TYPE LUGS IN SECTION 1. PROVIDE WITH INTERIOR CIRCUIT DIRECTORY FRAME. PROVIDE THREE 1 INCH CONDUITS TO ACCESSIBLE CEILING SPACE FOR ALL RECESSED PANELS.

D. DIRECTORY: PROVIDE A TYPED CIRCUIT DIRECTORY CARD AND CLEAR PLASTIC COVERING UPON COMPLETION OF WORK. DIRECTORY CARD SHALL BE OF SUPER HEAVY-WEIGHT INDEX CARD STOCK, 110 LB, WHITE. DIRECTORY SHALL INCLUDE TYPE OF LOAD (IE: RECEPTACLES, LIGHTING, EF-1, ETC.) AND LOCATION (IE: ROOM 102, OFFICE, ETC.) ROOM NUMBER SHALL BE IDENTIFIED AS THE ACTUAL ROOM NUMBER ASSIGNED TO THE SPACE AND NOT THE ROOM NUMBER IDENTIFIED ON THE PLANS. CIRCUITS WITH SHUNT TRIP SHALL BE IDENTIFIED WITH THE CONTROL CIRCUIT OPERATING THE SHUNT TRIP (IE: KITCHEN HOOD NO. 2). SHUNT TRIP BREAKERS WITH COMMON TRIP CIRCUIT SHALL BE GROUPED TOGETHER IN THE PANELBOARD (IE: CIRCUITS 1, 3, & 5). DISTRIBUTION PANELS - PROVIDE ENGRAVED LABELS WITH TYPICAL BRANCH CIRCUIT INFORMATION PER EACH CIRCUIT.

E. CLEARANCE: ALL PANELBOARDS SHALL BE INSTALLED WITH MINIMUM REQUIRED FORWARD AND HORIZONTAL WORKING CLEARANCES PER NEC. THERE SHALL BE NO EQUIPMENT OTHER THAN CONDUIT, CONDUCTORS AND OTHER APPURTENANCES RELATING TO THE PANELBOARD INSTALLATION LOCATED WITHIN THE FOOTPRINT OF THE PANELBOARD EXTENDING UPWARDS TO THE STRUCTURE.

TRANSFORMERS

A. GENERAL: ALL INDOOR TRANSFORMERS SHALL BE DRY-TYPE MULTIPLE-WINDING TRANSFORMERS RATED AS SHOWN AND SHALL HAVE MANUFACTURER'S STANDARD IMPEDANCE. WINDINGS SHALL BE CONSTRUCTED OF STEEL. PROVIDE ENGRAVED TAG DENOTING TRANSFORMER NAME.

B. TEMPERATURE RATINGS: MAXIMUM WINDING TEMPERATURE OF 150 DEGREE C. RISE WITH INSULATION CLASSIFICATION OF 220 DEGREE C.

C. LOAD RATING: TRANSFORMERS SHALL BE CAPABLE OF OPERATING AT 100% OF NAMEPLATE RATING CONTINUOUSLY WHILE IN AN AMBIENT TEMPERATURE NOT EXCEEDING 40 DEGREE C.

D. TRANSFORMERS SHALL BE FLOOR MOUNTED ON CONCRETE HOUSEKEEPING PADS UNLESS NOTED OTHERWISE. CONCRETE PADS SHALL BE 6 INCHES THICK MINIMUM INDOORS AND 8 INCHES THICK OUTDOORS. CHAMFER STRIPS AT EDGES AND CORNER OF FORMS. PAD SHALL EXTEND 3 INCHES MINIMUM BEYOND THE PERIMETER OF EQUIPMENT. CONCRETE PAD SHALL BE FORMED WITH 6 INCH x 6 INCH #8 WIRE REINFORCEMENT MESH.

E. TRANSFORMERS SHALL BE INSTALLED SUCH THAT THERE IS A MINIMUM 6 INCH CLEARANCE ON ALL FOUR SIDES OF THE TRANSFORMER.

CONDUCTORS

A. ALL CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE. SOLID OR STRANDED CONDUCTORS ALLOWED. WIRE SHALL HAVE TYPE "THHN" OR "THWN" INSULATION.

B. MINIMUM WIRE SIZE, EXCEPT FOR CONTROL WIRING, SHALL BE #12 AWG.

C. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE SUPPLIED IN EVERY BRANCH CIRCUIT. THE GROUND CONDUCTOR SHALL BE COPPER AND SIZED PER NEC 250.122, UNLESS SIZED ON DRAWINGS.

D. NO MORE THAN SIX CURRENT CARRYING CONDUCTORS PER EACH RACEWAY. IF APPLICATION REQUIRES MORE THAN SIX, DERATE PER NEC 310.15(B)(3)(a).

E. FEEDER CONDUCTORS SHALL RUN THEIR ENTIRE LENGTH WITHOUT SPLICE. COORDINATE FEEDER TERMINATIONS WITH ASSOCIATED EQUIPMENTS LUGS.

WIRING DEVICES

A. RECEPTACLES: COMMERCIAL SPECIFICATION GRADE RECEPTACLES, NEMA CONFIGURATION AS INDICATED. COORDINATE STYLE OF RECEPTACLE TO BE PROVIDED WITH ARCHITECT.
1. 20A, 125V GROUNDED DUPLEX DECORA, NEMA 5-20R: LEVITON/16352 OR EQUAL.
2. 20A, 125V GROUNDED DUPLEX, NEMA 5-20R: LEVITON/5362 OR EQUAL.
3. SPECIAL RECEPTACLES AS NOTED ON DRAWINGS.

B. GROUND FAULT CIRCUIT INTERRUPTER (GFCI): INSTALL A GFCI DEVICE AT EACH LOCATION SHOWN AND ADDITIONALLY PROVIDE A GFCI DEVICE WITHIN 25' OF ALL EQUIPMENT MOUNTED OUTDOORS AND/OR ON ROOFS. PROVIDE WR RATED GFCI RECEPTACLE WITH WEATHERPROOF COVER AT ALL EXTERIOR LOCATIONS. DO NOT USE FEED THROUGH FEATURE FOR GFCI DEVICES. GFCI CIRCUIT BREAKERS ALLOWED ONLY WHERE INDICATED.
1. INTERIOR: 20A, 125V GFCI, NEMA 5-20R, LEVITON/GFWT2 OR EQUAL.
2. EXTERIOR: 20A, 125V GFCI, WEATHER RESISTANT, NEMA 5-20R LEVITON/GFWT2 OR EQUAL.

C. WALL SWITCHES: COMMERCIAL SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES WITH MOUNTING YOKE INSULATED FROM MECHANISM, PLASTER EARS AND SIDE OR REAR WIRED SCREW TERMINALS.
1. SINGLE POLE, 120/277V: LEVITON/54521 OR EQUAL.
2. DOUBLE POLE, 120/277V: LEVITON/54522 OR EQUAL.
3. THREE WAY, 120/277V: LEVITON/54523 OR EQUAL.
4. FOUR WAY, 120/277V: LEVITON/54524 OR EQUAL.

D. INSTALL SWITCHES ON THE STRIKE SIDE OF DOORS A HUNG. ORIENTATE SWITCHES SUCH THAT THE UP POSITION CLOSES THE CIRCUIT. WHERE MORE THAN ONE SWITCH IS IN THE SAME LOCATION, INSTALL ALL IN A MULTI-GANG BOX WITH A SINGLE COVER PLATE.

E. DEVICE COVER PLATES:
1. INTERIOR - HIGH IMPACT NYLON.
2. BLOCK OR MASONRY WALLS (INTERIOR) - SATIN FINISH TYPE 302 STAINLESS STEEL, JUMBO, UNLESS NOTED OTHERWISE
3. SURFACE MOUNT (INTERIOR) - COVER SHALL BE 4" SQUARE RAISED TYPE TO MATCH DEVICE.

F. FINISHES SELECTED BY ARCHITECT OR OWNER. DEVICE AND ASSOCIATED COVER FINISHES SHALL MATCH, UNLESS NOTED OTHERWISE.

G. PROVIDE A COVERPLATE OR BLANK COVER FOR EVERY OUTLET (INCLUDING TELE/COMM).

H. MOUNTING HEIGHTS OF ALL WIRING DEVICES SHALL COMPLY WITH CURRENT ACCESSIBILITY STANDARDS AND LOCAL CODES AS APPLICABLE. OTHERWISE MOUNT AS NOTED ON DRAWINGS.

I. REFER TO ARCHITECTURAL DRAWING, ELEVATIONS, ETC. FOR COORDINATION OF WIRING DEVICE LOCATIONS. COORDINATE WITH OTHER SPECIALTY ITEMS, EQUIPMENT AND MILLWORK TO AVOID CONFLICTS. COORDINATE WITH ALL TRADES TO AVOID CONFLICTS PRIOR TO ROUGH-IN.

J. PROVIDE PIGTAIL TO EACH DEVICE (PHASE, NEUTRAL AND GROUND). CONDUCTORS SHALL BE INSTALLED USING SIDE OR REAR ENTRY LUGS. DO NOT WRAP STRANDED CONDUCTORS AROUND SCREW TERMINALS. EQUIPMENT GROUND SHALL BOND TO ROUGH-IN BOX VIA GREEN THREADED SCREW.

K. OCCUPANCY SENSORS: FURNISH THE TYPE AND QUANTITY AS REQUIRED TO MEET THE CONTROLS INTENT AS INDICATED ON DRAWINGS. THE CONTRACTOR SHALL ADJUST OCCUPANCY SENSOR FINAL LOCATIONS AS REQUIRED TO CONFORM TO THE FURNISHED OCCUPANCY SENSOR COVERAGE PATTERNS.

L. DIMMERS: PROVIDE DIMMERS OF THE TYPE, SIZE AND VOLTAGE REQUIRED FOR PROPER OPERATION OF ASSOCIATED FIXTURE(S) BEING CONTROLLED.

DISCONNECT SWITCHES

A. GENERAL: PROVIDE HEAVY DUTY TYPE DISCONNECT SWITCHES OF THE TYPE, MOUNTING AND SIZE INDICATED. SWITCHES SHALL BE RATED FOR THE VOLTAGE OF THE ASSOCIATED CIRCUIT BEING SERVED. SWITCHES USED AS MOTOR DISCONNECTS SHALL BE HORSEPOWER RATED FOR THE MOTOR SERVED. PROVIDE SOLID NEUTRAL CONNECTION VIA INSULATED LUG WHERE APPLICABLE. PROVIDE ENGRAVED TAG DENOTING EQUIPMENT SERVED.

B. ENCLOSURES:
1. INTERIOR GENERAL USE - NEMA 1, STEEL, UNLESS NOTED OTHERWISE.
2. INTERIOR WET LOCATION (KITCHEN, FOOD PREPARATION, HOSE DOWN AND CORROSIVE AREA, ETC.) - NEMA 4X, STAINLESS STEEL.
3. EXTERIOR GENERAL USE - NEMA 3R, STEEL, UNLESS NOTED OTHERWISE.

C. SUPPORTS: PROVIDE ALL SWITCHES WITH GALVANIZED STEEL RACK WHERE MOUNTING ON WALL OR OTHER RIGID SURFACE IS IMPRACTICAL. SWITCHES SHALL NOT BE SUPPORTED BY CONDUIT ALONE. SWITCHES ARE NOT ALLOWED TO MOUNT ON EQUIPMENT. DO NOT UTILIZE DRIVE PIN THROUGH ENCLOSURE OR PLASTIC ANCHORS. SWITCHES SHALL ADHERE TO CODE REQUIRED WORKING SPACE AND SHALL BE READILY ACCESSIBLE.

LIGHTING FIXTURES AND LAMPS

A. WORK INCLUDED: PROVIDE LIGHTING FIXTURE WORK AS SHOWN, SCHEDULED AND SPECIFIED.

B. QUALITY ASSURANCE:
1. PROVIDE LED FIXTURES THAT COMPLY WITH THE DESIGN LIGHTS CONSORTIUM (DLC)/STANDARDS AND ARE DLC LISTED. FIXTURES SHALL HAVE MINIMUM 5-YEAR REPLACEMENT WARRANTY FOR LED DRIVER AND LIGHT ENGINE.
2. PROVIDE FLUORESCENT FIXTURES WITH BALLASTS THAT COMPLY WITH CERTIFIED BALLAST MANUFACTURERS ASSOCIATED (CBM) STANDARDS AND CARRY THE CBM MARK ON THE LABEL.
3. PROVIDE HID FIXTURES WITH BALLASTS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ANSI STANDARDS.
4. FIXTURES SHALL CONFORM TO APPLICABLE U.L. STANDARDS AND BE U.L. OR ETL LISTED.
5. EMERGENCY FIXTURES SHALL CONFORM TO THE REQUIREMENTS OF NFPA 101, NFPA 70 (NEC) AND SHALL BE UL924 CODE COMPLIANT.
6. ALL ASPECTS OF LIGHTING SHALL ADHERE TO ENERGY CODE COMPLIANCE.

C. FIXTURE TYPES:
1. EMERGENCY/EGRESS FIXTURE (EXIT SIGNS & EMERGENCY LIGHTING UNITS) - PROVIDE FIXTURES WITH BATTERY DESIGNED TO ILLUMINATE A MINIMUM OF 90 MINUTES UPON LOSS OF POWER. FIXTURES SHALL HAVE SELF DIAGNOSTICS FEATURE. EXIT FIXTURE DIRECTIONAL ARROWS ORIENTATION SHALL COORDINATE WITH ARCHITECTURAL EGRESS PLAN. PROVIDE AN UN-SWITCHED HOT CONDUCTOR, FROM LOCAL LIGHTING CIRCUIT, TO ALL BATTERY POWERED EGRESS FIXTURES.
2. LAY-IN TROFFER FIXTURES - PROVIDE LOUVERS, LENSES, REFLECTORS AS SCHEDULED. ACRYLIC PANEL STYLE LENSES SHALL BE .125 INCH THICK MINIMUM, PROVIDE TWO TIE WIRES AT OPPOSITE CORNERS OF EACH FIXTURE TO STRUCTURE.
3. RECESSED DOWNLIGHT FIXTURES- PROVIDE FIXTURES WITH HOUSING AND TRIM RING COMPATIBLE WITH CEILING PER ARCHITECTURAL FINISH SCHEDULE. COORDINATE TRIM FINISH WITH ARCHITECT. WHERE INSTALLED IN GRID CEILING, PROVIDE TWO TIE WIRES AT APPOSITE CORNERS OF EACH FIXTURE TO STRUCTURE.
4. EXTERIOR FIXTURES - HOUSINGS SHALL BE ALUMINUM OR STAINLESS STEEL. FIXTURES SHALL BE U.L. LISTED FOR WET LOCATION. FINAL AIMING OF ADJUSTABLE FLOOD FIXTURES SHALL BE DONE AT NIGHT AND APPROVED BY THE ARCHITECT AND OWNER. FIXTURE PEDESTAL/FOUNDATION IS THE RESPONSIBILITY OF THE CONTRACTOR

D. INSTALLATION:
1. STANDARDS - COMPLY WITH NEMA STANDARDS, NECA STANDARDS OF INSTALLATION AND APPLICABLE REQUIREMENTS OF NEC.
2. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS.
3. INSTALL FIXTURES SUCH THAT ILLUMINATION IS NOT OBSTRUCTED. COORDINATE DISCREPANCIES WITH ENGINEER PRIOR TO INSTALLATION.
4. INSTALL ALL FIXTURES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
5. IN NO INSTANCE SHALL FIXTURES BE SUPPORTED BY SUSPENDED CEILING GRID OR ASSOCIATED SUPPORTS
6. PENDANTS SHALL BE SUPPORTED TO BUILDING STRUCTURE. DO NOT SUPPORT VIA CONDUIT SYSTEM.
7. PROVIDE 6 FEET LONG FIXTURE WHIPS (MC CABLE) ABOVE ACCESSIBLE CEILINGS WHERE APPLICABLE. "DAISY CHAIN" METHOD IS PROHIBITED. AT INACCESSIBLE SPACE, USE JUNCTION BOX FURNISHED WITH LIGHT FIXTURE LISTED FOR THROUGH WIRING VIA USE OF CONDUIT.

Revisions / Submission

The drawings, specifications and other documents prepared by the Architect for this project are instruments of the Architect's service for use solely with respect to this project and, unless otherwise provided, the architect shall be deemed the author of these documents and shall retain all common law, statutory and other reserved rights, including reproducible copies, of the Architect's drawings, specifications and other documents for information and reference in connection with the Owner's use and occupancy of the project. The Architect's drawings, specifications or other documents shall not be used by the Owner or others on other projects, for additions to this project or for completion of this project by others, unless the Architect is adjudged to be in default under this agreement, except by agreement in writing and with appropriate compensation to the Architect.

PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-12
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

Project Number: 24032.05
Date: NOVEMBER 14, 2025
Project Architect: JMH

ELECTRICAL SPECIFICATIONS

E4.00

FIRE ALARM SPECIFICATIONS:

FIRE ALARM AND SMOKE DETECTION SYSTEM

1. THE CONTRACTOR SHALL MODIFY AND AUGMENT THE EXISTING MAIN FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED HARDWARE AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO, ALL CONTROL EQUIPMENT, POWER SUPPLIES, POWER CIRCUITS, SIGNAL INITIATING AND TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
2. FIRE ALARM AND SMOKE DETECTION DEVICES INDICATED ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE INSTALLING CONTRACTOR SHALL DESIGN AND PROVIDE A COMPLETE SYSTEM, MEETING THE REQUIREMENT OF SPECIFICATION SECTION 16727. THE CONTRACTOR SHALL PROVIDE ALL FIRE ALARM AND INITIATION DEVICES REQUIRED FOR A COMPLETE SYSTEM ACCEPTABLE TO ALL GOVERNING AUTHORITIES.
3. THE SYSTEM SHALL OPERATE AS A NON-CODED, CONTINUOUS RINGING SYSTEM WHICH WILL SOUND ALARM DEVICES UNTIL MANUALLY SILENCED, AS HEREIN SPECIFIED.
4. THE SYSTEM SHALL BE WIRED AS A CLASS B SUPERVISED SYSTEM FOR ALL CIRCUITS.

THE SYSTEM SHALL COMPLY WITH THE APPLICABLE CODES AND STANDARDS AS FOLLOWS:
1. NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS: NFPA 70 NATIONAL ELECTRIC CODE, NFPA 72 NATIONAL FIRE ALARM CODE, NFPA 90A AIR CONDITIONING SYSTEMS, & NFPA 101 LIFE SAFETY CODE
2. LOCAL & STATE BUILDING CODES
3. REQUIREMENTS OF AMERICAN DISABILITIES ACT (PUBLIC LAW 101-336)
4. STATE FIRE MARSHALL

CONTRACTOR QUALIFICATIONS
1. THE INSTALLING CONTRACTOR SHALL BE THE AUTHORIZED REPRESENTATIVE OF THE FIRE ALARM MANUFACTURER TO SELL, INSTALL, AND SERVICE THE PROPOSED MANUFACTURER'S EQUIPMENT. THE INSTALLING CONTRACTOR SHALL HAVE REPRESENTED THE FIRE ALARM MANUFACTURER'S PRODUCT FOR AT LEAST FIVE YEARS.
2. THE INSTALLING CONTRACTOR SHALL BE LICENSED BY THE STATE FIRE MARSHALL TO DESIGN, SELL, INSTALL, AND SERVICE FIRE ALARM SYSTEMS.
3. THE INSTALLING CONTRACTOR SHALL PROVIDE 24 HOUR, 365 DAYS PER YEAR EMERGENCY SERVICE WITH FACTORY TRAINED, STATE LICENSED SERVICE TECHNICIANS.

THE INSTALLING CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL PROVIDE COMPLETE AND
DETAILED SHOP DRAWINGS AND INCLUDE:
1. CONTROL PANEL WIRING AND INTERCONNECTION SCHEMATICS.
2. COMPLETE POINT-TO-POINT WIRING DIAGRAMS.
3. RISER DIAGRAMS.
4. COMPLETE FLOOR PLAN DRAWINGS LOCATING ALL SYSTEM DEVICES.
5. FACTORY DATA SHEETS ON EACH PIECE OF EQUIPMENT PROPOSED.
6. DETAILED SYSTEM OPERATIONAL DESCRIPTION. ANY SPECIFICATION DIFFERENCES AND DEVIATIONS SHALL BE CLEARLY NOTED AND MARKED.
7. COMPLETE SYSTEM BILL OF MATERIAL.

IT SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO COORDINATE ALL REQUIREMENTS SURROUNDING INSTALLATION OF THE FIRE ALARM SYSTEM WITH ALL OTHER TRADES.

FIRE ALARM CONTROL PANEL: THE EXISTING CONTROL PANEL SHALL REMAIN AND BE RE-USED. SURGE PROTECTION SHALL BE PROVIDED AND INTEGRAL TO CONTROL PANELS.

CENTRAL PROCESSING UNIT MODULE (CPU): THE EXISTING CPU SHALL REMAIN AND BE RE-USED.

POWER SUPPLY: AUGMENT THE EXISTING BATTERIES AS REQUIRED TO ACCOMMODATE THE NEW PROJECT DEVICES.

DIGITAL FIRE ALARM COMMUNICATOR: THE EXISTING FIRE CONTROL COMMUNICATOR SHALL REMAIN AND BE RE-USED.

FIELD DEVICES

1. PHOTOELECTRIC SMOKE DETECTOR
   A. THE DETECTORS SHALL USE THE PHOTOELECTRIC PRINCIPAL TO MEASURE SMOKE DENSITY AND SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE ANALOG LEVEL OF SMOKE DENSITY.
   B. THE DETECTORS SHALL PROVIDE ADDRESS-SETTING MEANS ON THE DETECTOR HEAD OR AUTOMATIC SETTING AT THE PANEL.
   C. THE DETECTORS SHALL PROVIDE OPERATIONAL STATUS AND ALARM STATE LED. UNDER NORMAL CONDITIONS, THE LED SHALL FLASH, INDICATING THE DETECTOR IS OPERATIONAL AND IN REGULAR COMMUNICATION WITH THE CONTROL PANEL. AN OUTPUT CONNECTION SHALL ALSO BE PROVIDED IN THE BASE FOR CONNECTING AN EXTERNAL REMOTE ALARM LED.
   D. THE DETECTOR SHALL BE SEMI-FLUSH CEILING MOUNTED AND BE PROVIDED WITH MODULAR DETECTOR HEAD WITH TWIST-LOCK BASE. DETECTORS SHALL BE UL LISTED WITH RESPECTIVE CONTROL PANEL.

2. AUXILIARY AHU RELAYS: AIR PRODUCTS MODEL MR-101C RELAYS SHALL BE PROVIDED FOR HVAC AND AHU CONTROL AND INTERFACE. RELAYS SHALL BE HEAVY DUTY TYPE AND RATED UP TO 10 AMPS AT 24 VDC, 60 HZ. RELAYS SHALL BE PROVIDED WITH NEMA I DUST COVER ASSEMBLY AND BE PROVIDED WITH DPDT CONTACTS AS WELL AS ACTIVATED LED INDICATOR.

3. ADDRESSABLE MANUAL STATIONS
   A. MANUAL STATIONS SHALL BE PROVIDED AS REQUIRED. THE MANUAL STATION SHALL PROVIDE ADDRESS-SETTING MEANS.
   B. MANUAL STATIONS SHALL BE DESIGNED FOR SEMI-FLUSH (SURFACE) MOUNTING ON STANDARD ELECTRICAL BOX. THE STATION SHALL BE CONSTRUCTED OF HI-IMPACT RED MOLDED LEXAN WITH INSTRUCTIONS FOR STATION OPERATION IN RAISED WHITE LETTERS. STATIONS SHALL BE OF THE DUAL ACTION TYPE.

4. AUTOMATIC HEAT DETECTORS: AUTOMATIC HEAT DETECTORS SHALL BE COMBINATION RATE-OF-RISE AND FIXED-TEMPERATURE-RATED AT 135°F FOR AREAS WHERE AMBIENT TEMPERATURES DO NOT EXCEED 100°F AND 200°F FOR AREAS WHERE AMBIENT TEMPERATURES EXCEED 100°F BUT NOT 150°F. THE FIXED TEMPERATURE ELEMENT SHALL CONSIST OF A FUSIBLE ALLOY RETAINER AND ACTUATOR SHAFT. DETECTORS SHALL HAVE A SMOOTH CEILING RATING OF 2,500 SQUARE FEET. DETECTORS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS AND/OR WHERE REQUIRED BY CODE OFFICIALS.

5. CONTROL MODULE
   A. CONTROL/RELAY MODULES SHALL BE PROVIDED WHERE REQUIRED TO PROVIDE AUDIBLE ALARM INTERFACE AND/OR RELAY CONTROL INTERFACE. THE CONTROL AUDIBLE ALARM INTERFACE AND/OR RELAY CONTROL INTERFACE. THE CONTROL MODULE SHALL BE USED TO CONNECT A SUPERVISED ZONE OF CONVENTIONAL INDICATING DEVICES TO AN INTELLIGENT LOOP. THE ZONE MAY BE WIRED CLASS A OR CLASS B - FIELD SELECTED. THE CONTROL MODULE MAY BE OPTIONALLY WIRED AS DRY CONTACT (FORM C) RELAY.
   B. THE CONTROL MODULE SHALL PROVIDE ADDRESS-SETTING MEANS. A STATUS/ALARM LED SHALL BE PROVIDED WHICH SHALL INDICATE THAT THE CONTROL MODULE IS OPERATIONAL AND IN REGULAR COMMUNICATION WITH THE CONTROL PANEL AND INDICATE WHEN THE DEVICE IS ACTUATED VIA THE FIRE ALARM CONTROL PANEL.

6. REMOTE LCD ALPHA-NUMERIC ENUNCIATORS
   A. PROVIDE IN THE ADMINISTRATIVE AREA OF THE CENTRAL OFFICE IN CONSTANTLY ATTENDED AREA AND OR WHERE INDICATED ON THE DRAWINGS, REMOTE ALPHA-NUMERIC ANNUNCIATOR(S) TO ANNUNCIATE ALL SYSTEM EVENTS AND DUPLICATE THE DISPLAYED STATUS AT THE MAIN FACP. THE ANNUNCIATOR(S) SHALL BE A BACKLIT 16 CHARACTER DISPLAY. THE DISPLAYS SHALL AUTOMATICALLY ILLUMINATE UPON RECEIPT OF AN ALARM OR TROUBLE CONDITION. THE UNIT SHALL OPERATE FROM FACP 24VDC POWER AND FUNCTION DURING SYSTEM POWER FAILURE WHILE THE SYSTEM RESIDES ON STANDBY BATTERIES. FAILURE WHILE THE SYSTEM RESIDES ON STANDBY BATTERIES.

7. ELECTRONIC ALARM SIGNAL: ELECTROMECHANICAL DEVICES SHALL NOT BE ACCEPTABLE. EACH UNIT SHALL PROVIDE A CODE 3 TEMPORAL TONE. THE HORN SHALL PROVIDE A MINIMUM OUTPUT OF 90DB AT 10'.

8. VISUAL SIGNALS: STROBE LIGHTS SHALL BE OF THE ELECTRONIC FLASHING XENON STROBE TYPE AND OPERATE ON 24 VDC. THE STROBE LIGHT SHALL BE CAPABLE OF PRODUCING 75 CANDELA ON AXIS TO COMPLY WITH ADA AND UL 1638 REQUIREMENTS, AND 15, 30, OR 110 CANDELA TO COMPLY WITH UL 1971 REQUIREMENTS. ADA STROBE LIGHTS SHALL BE WALL MOUNTED 80" AFF. ALL VISUAL SIGNALING DEVICES SHALL BE INSTALLED PER NFPA 72 1993. VISUAL SIGNALS IN COMMON AREAS OF ILLUMINATION SHALL HAVE SYNCHRONIZED FLASH.

9. COMBINATION ALARM SIGNAL AND HIGH INTENSITY VISUAL SIGNALS: STROBE LIGHTS SHALL BE OF THE ELECTRONIC FLASHING XENON STROBE TYPE AND OPERATE ON 24 VDC. THE STROBE LIGHT SHALL BE CAPABLE OF PRODUCING 75 CANDELA ON AXIS TO COMPLY WITH ADA REQUIREMENTS, AND 15, 30 OR 110 CANDELA TO COMPLY WITH UL 1971 REQUIREMENTS. ADA STROBE LIGHTS SHALL BE WALL MOUNTED 80" AFF. ALL VISUAL SIGNALING DEVICES SHALL BE INSTALLED PER NFPA 72. VISUAL SIGNALS IN COMMON AREAS OF ILLUMINATION SHALL HAVE SYNCHRONIZED FLASH. EACH UNIT SHALL PROVIDE A CODE 3 TEMPORAL TONE. THE HORN SHALL PROVIDE A MINIMUM OUTPUT OF 90DB AT 10', AND INTENSITY SIZED ACCORDINGLY FOR THE AREA OF COVERAGE.

WARRANTY: THE FIRE ALARM SYSTEM, INCLUDING LABOR AND MATERIAL, SHALL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS, UNDER NORMAL USE AND SERVICE, FOR PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION, ANY EQUIPMENT OR WORKMANSHIP SHOWN TO BE DEFECTIVE SHALL BE REPAIRED, REPLACED OR ADJUSTED DURING NORMAL WORKING HOURS AT NO COST TO THE OWNER WITHIN 4-HOUR NOTIFICATION.

SYSTEM SEQUENCE OF OPERATION

1. ALARM DETECTION - WHEN A FIRE ALARM CONDITION IS DETECTED BY ANY OF THE SYSTEM ALARM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL OCCUR:
   A. THE SYSTEM COMMON ALARM LED ON THE CPU MODULE SHALL FLASH. THE INTERNAL AUDIBLE TROUBLE DEVICE SHALL SOUND. ACKNOWLEDGING THE ALARM CONDITION SHALL SILENCE THE AUDIBLE TROUBLE DEVICE AND REVERT THE FLASHING COMMON ALARM LED TO A STEADY STATE.
   B. A DISPLAY SHALL INDICATE ALL APPLICABLE INFORMATION ASSOCIATED WITH THE ALARM CONDITION INCLUDING: ZONE, DEVICE TYPE, DEVICE LOCATION, AND TIME PROGRAMMED TO RESPECTIVE PREMISES.
   C. ANY REMOTE OR LOCAL ANNUNCIATOR LED'S ASSOCIATED WITH THE ALARM POINT SHALL BE ILLUMINATED AS HEREIN SPECIFIED.
   D. THE REMOTE SIGNALING CONNECTION SHALL BE ACTIVATED RELAYING THE ALARM SIGNAL TO AN APPROVE CENTRAL STATION (CENTRAL STATION CONNECTION AND SERVICE PROVIDED BY OWNER).
   E. ALL AUTOMATIC EVENTS PROGRAMMED TO THE ALARM POINT SHALL BE EXECUTED AND THE ASSOCIATED INDICATING DEVICES AND/OR OUTPUTS ACTIVATED.
   F. ACTIVATE ALL AUDIBLE/VISUAL ALARM DEVICES.
   G. DE-ACTIVATE HVAC SYSTEMS.
   H. INDICATED THE ZONE IN ALARM.
2. ALARM VERIFICATION SHALL BE FIELD PROGRAMMED FOR EACH RESPECTIVE DETECTOR. GLOBAL VERIFICATION WILL NOT BE ACCEPTABLE. THE VERIFICATION SEQUENCE IS ACTIVATED AFTER A "CHECK" PROCEDURE AND THE PANEL WILL WAIT A FIELD PROGRAMMABLE DELAY PERIOD (0-50 SECONDS) THEN PROCEED TO RESAMPLE THE DETECTOR FOR CONTINUED PRESENCE OF SMOKE. IF THE ALARM CONDITION STILL EXISTS OR A NON-VERIFIED DEVICE IS ACTUATED DURING THE VERIFICATION PERIOD, THE SYSTEM WILL THEN INITIATE ALL ALARM SEQUENCES SPECIFIED HEREIN. THE SYSTEM SHALL INCORPORATE THE ABILITY TO LOG IN MEMORY THE NUMBER OF VERIFICATION EVENTS THAT HAVE OCCURRED FOR EACH SELECTED DEVICE.

SYSTEM TROUBLE DETECTION

1. WHEN A TROUBLE CONDITION IS DETECTED BY THE CPU, ONE OF THE SYSTEM SLC, INITIATING, OR INDICATING CIRCUITS AND/OR DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
   A. THE SYSTEM TROUBLE LED ON THE CPU MODULE SHALL FLASH AND THE INTERNAL AUDIBLE TROUBLE DEVICE SHALL SOUND. ACKNOWLEDGMENT OF THE TROUBLE CONDITION SHALL SILENCE THE AUDIBLE TROUBLE DEVICE AND CAUSE ALL TROUBLE LED'S TO ILLUMINATE STEADY.
   B. THE ALPHANUMERIC ANNUNCIATOR SHALL DISPLAY ALL APPLICABLE INFORMATION VIA THE ALPHANUMERIC DISPLAY ASSOCIATED WITH THE RESPECTIVE TROUBLE CONDITION AND ITS LOCATION.
   C. DISPLAY SHALL INDICATE TYPE OF DEVICE, ARCHITECTURAL ROOM LOCATION, AND RELATED EQUIPMENT IF APPLICABLE (IE: DUCT SMOKE DETECTOR/E107/AHU-5).
   D. THE SYSTEM COMMON TROUBLE INDICATOR ON ASSOCIATED REMOTE ANNUNCIATORS SHALL BE ILLUMINATED AS HEREIN SPECIFIED.
   E. ALL DESIGNATED "NON-SILENCABLE" AUXILIARY CONTROL FUNCTIONS SHALL REMAIN IN OPERATION (EVEN UPON SILENCING OF AUDIBLE ALARMS) UNTIL SUCH TIME AS THE CONTROL PANEL IS CLEARED AND RESET MANUALLY (I.E. FAN CONTROL OUTPUTS, CENTRAL STATION INTERFACE, ETC.).
2. THE ANNUNCIATOR(S) SHALL DUPLICATE THE CONTROL PANEL ALARM STATUS INDICATORS FOR SELECTED SYSTEM ZONES/POINTS AND IN ADDITION, ANNUNCIATE ANY SYSTEM TROUBLE CONDITIONS AS HEREIN SPECIFIED.
3. ZONING - THE SYSTEM SHALL EMPLOY SMOKE DETECTORS AND ADDRESSABLE INTERFACE DEVICES CAPABLE OF BEING RECOGNIZED AND ANNUNCIATED AT THE MAIN CONTROL PANEL ON AN INDIVIDUAL BASIS. ALL ZONING/DEVICE LOCATION INFORMATION SHALL BE TOTALLY FIELD PROGRAMMABLE TO EXACT JOB REQUIREMENTS AS APPROVED BY THE ARCHITECT/ENGINEER.

INSTALLATION
1. WIRING:
   A. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NFPA 72, THE NATIONAL ELECTRICAL CODE, LOCAL CODES, AND ARTICLE 760 OF NFPA STANDARD 70. ALL WIRING SIZES SHALL CONFORM TO RECOMMENDATIONS OF THE EQUIPMENT MANUFACTURER, AND AS INDICATED ON THE ENGINEERED SHOP DRAWINGS.
   B. ALL WIRE SHALL BE UL LISTED FPL FOR LIMITED ENERGY (300V) AND FIRE ALARM APPLICATIONS AND SHALL BE INSTALLED IN CONDUIT. LIMITED ENERGY FPLP OR MPP WIRE MAY BE RUN OPEN IN RETURN AIR CEILING PLENUMS PROVIDED SUCH WIRE IS UL LISTED FOR SUCH APPLICATIONS AND IS OF THE LOW SMOKE PRODUCING FLUOROCARBON TYPE AND COMPLIES WITH THE NEC ARTICLE 760 IF SO APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
   C. NO A/C WIRING OR ANY OTHER WIRING SHALL BE RUN IN THE SAME CONDUIT AS FIRE ALARM WIRING.
   D. ALL FIRE ALARM WIRING IS TO BE RED.

2. CONDUIT/RACEWAY
   A. ALL WIRE SHALL BE INSTALLED IN AN APPROVED CONDUIT/RACEWAY SYSTEM (EXCEPT WHERE PERMITTED BY NEC AN THE LOCAL AUTHORITY HAVING JURISDICTION). MAXIMUM CONDUIT "FILL" SHALL NOT EXCEED 40.
   B. CONDUIT AND RACEWAY SYSTEM SHALL BE INSTALLED AS SPECIFIED UNDER THE GENERAL ELECTRICAL SECTION OF THE SPECIFICATIONS, AND PER NEC.
   C. MINIMUM CONDUIT SIZE SHALL BE 1/2" EMT. INSTALL CONDUIT PER ENGINEERED SHOP DRAWINGS.
   D. SYSTEMS UTILIZING OPEN WIRING TECHNIQUES WITH LOW SMOKE PLENUM CABLE SHALL PROVIDE CONDUIT IN ALL INACCESSIBLE LOCATIONS, INSIDE CONCEALED WALLS, ALL MECHANICAL/ELECTRICAL ROOMS, OR OTHER AREA WHERE WIRING MIGHT BE EXPOSED TO VIEW AND OR SUBJECT TO DAMAGE.
   E. ALL VERTICAL WIRING AND ALL MAIN TRUNK/RISER WIRING SHALL BE INSTALLED IN A COMPLETED RACEWAY/CONDUIT SYSTEM. ALL RISER BOXES SHALL BE ADEQUATELY WELL AS THE NUMBER OF TERMINATIONS REQUIRED.
   F. ALL JUNCTION BOXES ARE TO BE PAINTED RED CONTAINING FIRE ALARM WIRING.
   G. ALL PLENUM WIRING IS TO BE INSTALLED PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE. INSTALL WIRING TIGHT UP AGAINST STRUCTURE FOR PROTECTION. CABLE SHALL BE BUNDLED ON A MAXIMUM OF 2'-6" AND SECURED TO THE STRUCTURE AT A MAXIMUM OF 5' ON A CENTER. BUNDLING AND SUPPORT SHALL BE WITH PLENUM RATED CABLE TIES.

TEST AND REPORTS

1. A STATE LICENSED AND FACTORY TRAINED TECHNICAL REPRESENTATIVE OF THE MANUFACTURER SHALL SUPERVISE THE FINAL CONTROL PANEL CONNECTIONS AND TESTING OF THE SYSTEM. UPON COMPLETION OF THE ACCEPTANCE TESTS, THE OWNER AND/OR HIS REPRESENTATIVES S HALL BE INSTRUCTED IN THE PROPER OPERATION OF THE SYSTEM.
2. THE INSTALLING CONTRACTOR SHALL FUNCTIONALLY TEST EACH AND EVERY DEVICE IN THE ENTIRE SYSTEM FOR PROPER OPERATION AND RESPONSE. IN ADDITION, EACH CIRCUIT IN THE SYSTEM SHALL BE FULLY TESTED FOR WRITING SUPERVISION. ANY ITEMS FOUND NOT PROPERLY INSTALLED OR NON-FUNCTIONING SHALL BE REPLACED OR REPAIRED AND RETESTED.
3. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETE WRITTEN REPORT ON THE FUNCTIONAL TEST OF THE ENTIRE SYSTEM. A COPY OF THE TEST REPORT SHALL BE PROVIDED WITH MAINTENANCE MANUALS. THE TEST REPORT SHALL BE SIGNED AND DATED BY THE LICENSED FIRE ALARM SUPERINTENDENT RESPONSIBLE FOR SUPERVISING THE FINAL SYSTEM TEST AND CHECKOUT.
4. THE INSTALLING CONTRACTOR'S FIRE ALARM SUPERINTENDENT SHALL TEST THE ENTIRE SYSTEM IN THE PRESENCE OF THE LOCAL AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ANY CHANGES, ADJUSTMENTS, OR CORRECTIONS AS MAY BE REQUIRED BY THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL AFFIX HIS CERTIFICATION LABEL TO THE MAIN FIRE ALARM CONTROL PANEL AS OUTLINED IN FML009.

GRAPHIC FLOOR PLANS

1. PROVIDE ONE COPY OF A 1/32" SCALE COLOR CODED FLOOR PLAN DETAILED WITH ROOM NAMES AND ROOM NUMBERS AND ADEQUATE INFORMATION TO DIRECT PEOPLE TO THE FIRE ALARM DEVICES IN ALARM AND TO EXITS.
2. THE FLOOR PLAN SHALL BE SOLVENT WELDED IN ACRYLIC PLASTIC. MOUNT IN AN EXTRUDED ALUMINUM FRAME NEXT TO THE MAIN FIRE ALARM CONTROL PANEL.

ADDITIONAL REQUIREMENTS:
1. PROVIDE ALL ACCESSORIES REQUIRED FOR OFF-SITE MONITORING. COORDINATE WITH OWNER FOR APPROPRIATE OFF-SITE MONITORING SERVICE.
2. COORDINATE DOOR-HOLD DEVICES WITH DOOR AND DOOR HARDWARE.

Revisions / Submission

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-LA
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

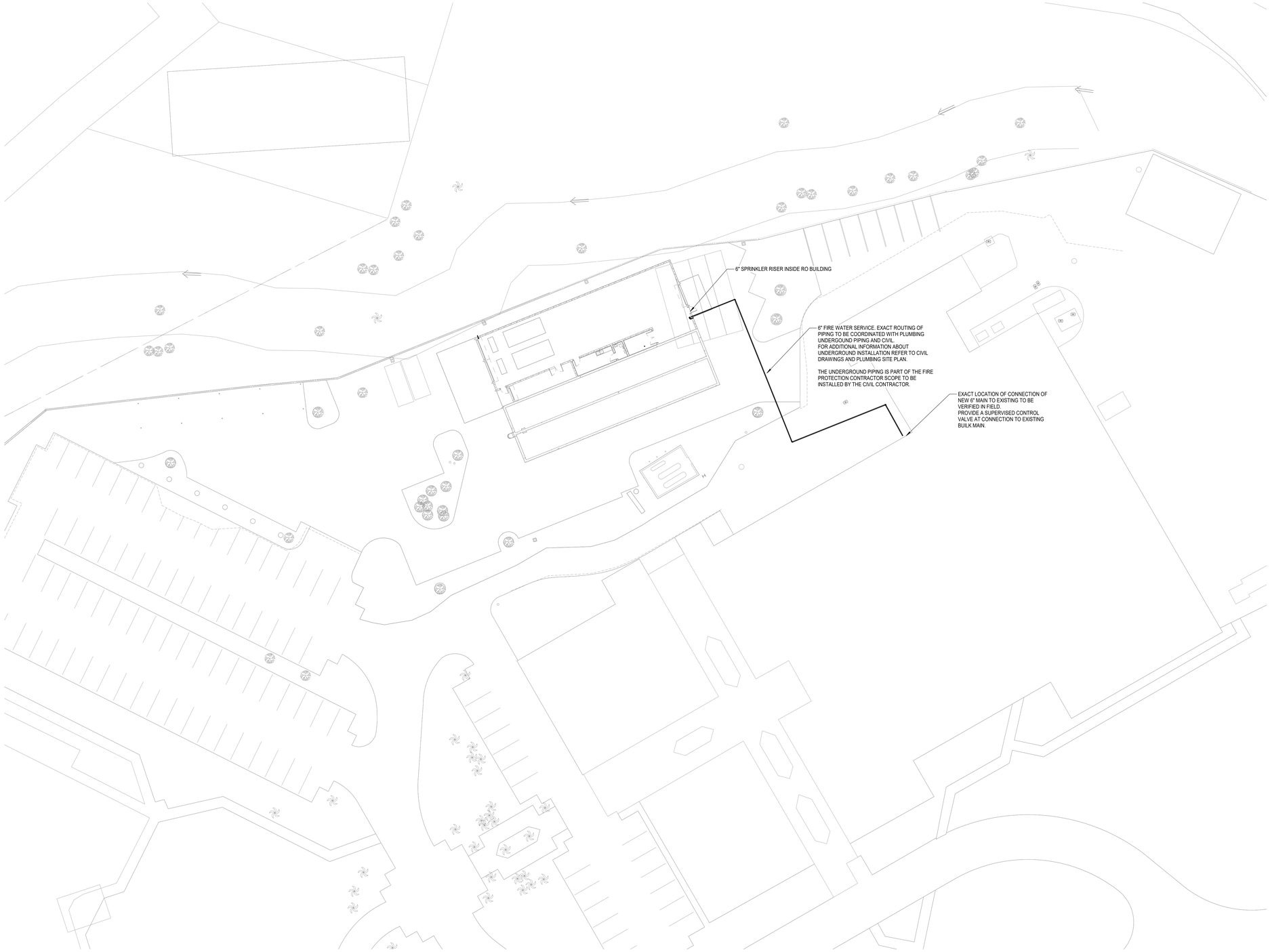
WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

Project Number:	24032.05
Date:	NOVEMBER 14, 2025
Project Architect:	JMH

FIRE ALARM SPECIFICATIONS

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1 **FIRE PROTECTION - PROPOSED PLAN - NEW SWRO PLANT**
Scale: 1" = 20'-0"

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners
ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

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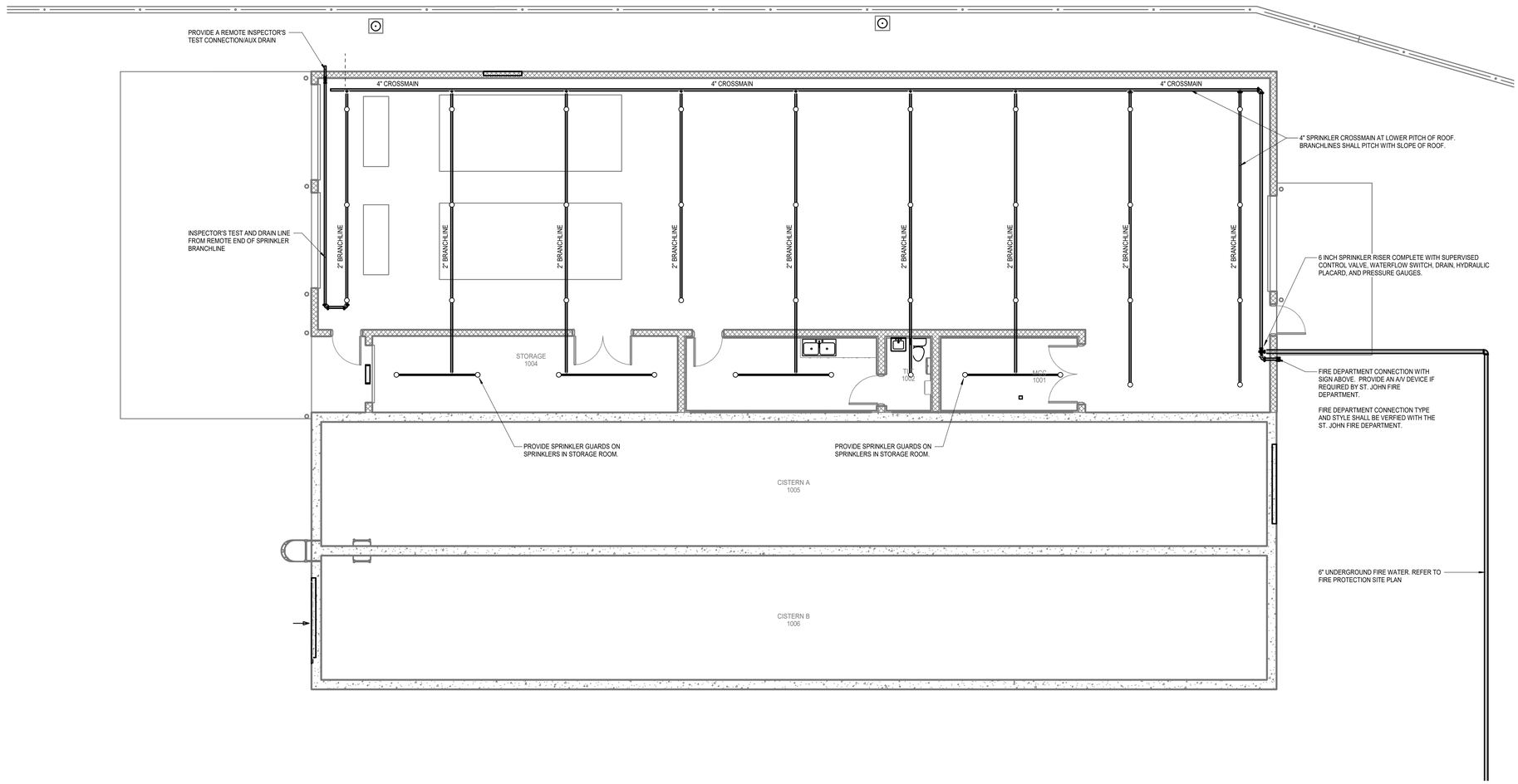
Project Number:	24032.05
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Project Architect:	JMH

FIRE PROTECTION
SITE PLAN - SWRO
PLANT & CISTERN

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1 **FIRE PROTECTION - ENLARGED PLAN - NEW SWRO PLANT & CISTERN**
Scale: 3/16" = 1'-0"

NOTES:

1. EXISTING CROSSMAIN TO REMAIN. BACK OF HOUSE AREA OF RENOVATION IS IT'S OWN SPRINKLER SYSTEM WITH A DEDICATED SUPERVISED CONTROL VALVE AND WATERFLOW SWITCH THAT REPORTS TO THE MAIN FIRE ALARM PANEL.

2. REMOVE EXISTING BRANCHLINES BACK TO CROSSMAIN. PROVIDE NEW BRANCHLINES COORDINATED WITH NEW HVAC DUCTWORK TO SUPPLY NEW SPRINKLERS.

3. ALL EXTERIOR CORRIDOR SIDEWALL SPRINKLERS SHALL BE REPLACED WITH NEW TEFLON QUICK RESPONSE TYPE SIDEWALLS. ALL EXTERIOR BATHROOMS AND ANY ROOMS THAT OPEN TO THE EXTERIOR SHALL BE PROVIDED WITH CORROSION RESISTANT QUICK RESPONSE TYPE SPRINKLERS.

Revisions / Submission

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

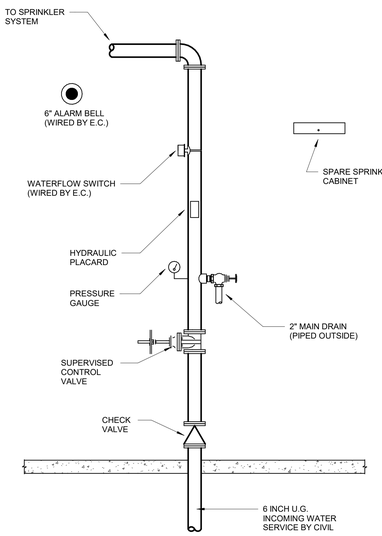
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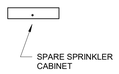
FIRE PROTECTION FLOOR PLANS - SWRO PLANT & CISTERN

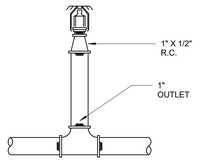
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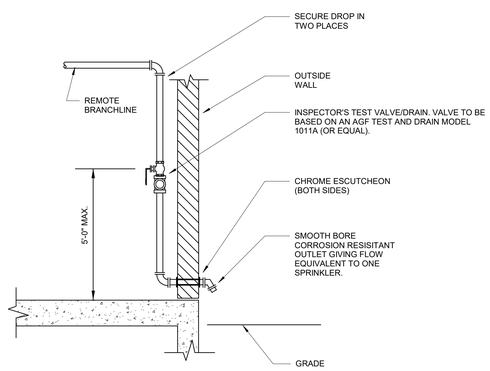


SPRINKLER RISER DETAIL





TYPICAL SPRIG



INSPECTOR'S TEST CONNECTION/DRAIN

AUTOMATIC SPRINKLER SCHEDULE

SYMBOL	MANUFACTURE MODEL NO.	TYPE	TEMP.	FINISH SPRK.	FINISH CANOPY	REMARKS	SIN
○	VIKING MICROFAST (OR EQUAL)	UPRIGHT OR PENDENT	175°	BRASS	———	UL/FM APPROVED QUICK-RESPONSE CORRO-PROOF	UPRIGHT - VK 300 PENDENT - VK 302

* NOTE: PROVIDE TEFLON COATED SPRINKLERS FOR ALL SPRINKLERS THROUGHOUT RO BUILDING INCLUDING STORAGE, MCC, TOILET ROOMS

FIRE PROTECTION NOTES AND SPECIFICATIONS

1. THE SPRINKLER DESIGN DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THE SPRINKLER CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
2. THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
3. THE SPRINKLER CONTRACTOR SHALL VISIT THE SITE TO DETERMINE ACTUAL FIELD CONDITIONS AND EXTENT OF WORK.
4. THE SPRINKLER DESIGN AS SHOWN IS A REPRESENTATIVE DESIGN ONLY. THE SPRINKLER CONTRACTOR SHALL BASE HIS DESIGN ON THE LATEST ARCHITECTURAL AND MECHANICAL DRAWINGS AND ACTUAL FIELD CONDITIONS BEFORE ANY FABRICATION OR INSTALLATION OF THE PROPOSED SPRINKLER WORK. FINAL SPRINKLER COUNT IS BY THE CONTRACTOR.
5. THE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED PER NFPA #13, AND IFC CODE, WITH ST. JOHN AMENDMENTS.
6. SYSTEMS SHALL BE TESTED HYDROSTATICALLY AT NOT LESS THAN 200 POUNDS PER SQUARE INCH PRESSURE FOR TWO HOURS, OR AT 50 POUNDS PER SQUARE INCH IN EXCESS OF THE MAXIMUM STATIC PRESSURE WHEN THE MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 POUNDS.
7. THE SPRINKLER CONTRACTOR SHALL PAY FOR ALL PERMITS AND FEES RELATED TO THE SPRINKLER WORK.
8. THE SPRINKLER CONTRACTOR SHALL SUBMIT SAMPLE SPRINKLERS TO THE ARCHITECT FOR APPROVAL BEFORE INSTALLATION.
9. PROVIDE WET SYSTEM LOW POINT DRAINS AND AUXILIARY DRAINS AS NECESSARY.
10. THE OWNER SHALL PROVIDE A MINIMUM 40 DEGREES F TEMPERATURE THROUGHOUT ALL AREAS OF THE BUILDING WHERE WET PIPE SPRINKLER SYSTEMS ARE PROVIDED.
11. THE SPRINKLER CONTRACTOR SHALL PROVIDE HANGERS PER NFPA #13.
MAXIMUM SYSTEM PRESSURE EXCEEDS 100 PSI. HANGER ASSEMBLIES SUPPORTING THE PIPE SUPPLYING AN END SPRINKLER IN A PENDENT POSITION SHALL BE RESTRAINED TO PREVENT UPWARD MOVEMENT OF THE PIPING AND BE LOCATED NO GREATER THAT 12" FROM THE SPRINKLER.
12. SUBMIT ENGINEERED SHOP DRAWINGS TO THE ARCHITECT (INCLUDING CATALOG CUTS AND HYDRAULIC CALCULATIONS) FOR APPROVAL PRIOR TO FABRICATION AND THE START OF WORK.
13. SUBMIT ENGINEERED SHOP DRAWINGS TO THE USVI ST. JOHN FIRE PREVENTION, MVW FIRE LIFE SAFTEY AND THE OWNER'S INSURANCE CARRIER (ZURICH)FOR APPROVAL PRIOR TO FABRICATION AND THE START OF WORK.
14. DELIVER MATERIAL TO THE JOB SITE, UNLOAD AND STORE IT IN A LOCATION AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
15. MAINTAIN THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH COVERED BY THIS WORK. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC. AND LEAVE THE PREMISES CLEAN.
16. THE SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER PROTECTION UNDER ALL MECHANICAL DUCTWORK AND/OR OBSTRUCTIONS IN EXPOSED STRUCTURE AREAS, IN ACCORDANCE WITH NFPA #13 REQUIREMENTS.
17. THE SPRINKLER GUARDS SHALL BE PROVIDED FOR ALL SPRINKLERS WITHIN 7'-0" ABOVE FINISHED FLOOR AND/OR IN AREAS SUBJECT TO MECHANICAL DAMAGE.
18. THE SPRINKLER CONTRACTOR SHALL PROVIDE SIX (6) SPARE SPRINKLERS COMPLETE WITH WRENCH AND CABINET, TURN OVER TO BUILDING ENGINEER ON COMPLETION OF JOB.
19. GENERAL DESIGN
    A. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED. CONTRACTOR SHALL SUBMIT CALCULATIONS WITH SHOP DRAWINGS. CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA #13.
    B. THE FIRE PROTECTION SYSTEM SHALL BE HYDRAULICALLY CALCULATED AS FOLLOWS:
        1) MCC, TOILET ROOM, ETC: NFPA #13, LIGHT HAZARD.
        2) PLANT AREA, STORAGE AREAS: NFPA #13, ORDINARY HAZARD, GROUP 2.
    C. ADD APPROPRIATE HOSE ALLOWANCE.
    D. PROVIDE A MINIMUM SAFETY FACTOR CUSHION OF 5 PSI OR 10% OF DESIGN PRESSURE, WHICHEVER IS GREATER, TO HYDRAULIC CALCULATIONS.
    E. THE SPRINKLER CONTRACTOR SHALL OBTAIN THE LATEST FIRE PUMP TEST AT THE SITE TO VERIFY THE AVAILABLE WATER SUPPLY.
20. LEAK DAMAGE
THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE DURING THE INSTALLATION AND TESTING PERIODS OF THE SPRINKLER SYSTEM FOR ANY LOSS OR DAMAGE TO THE WORK OF OTHERS, TO THE BUILDING, IT'S CONTENTS, ETC. CAUSED BY LEAKS IN ANY EQUIPMENT. BY UNPLUGGED OR DISCONNECTED PIPES, FITTINGS, ETC. OR BY OVERFLOW, AND SHALL PAY FOR THE NECESSARY REPLACEMENTS OR REPAIRS TO THE WORK OF OTHERS, DAMAGED BY SUCH LEAKAGE.
21. MATERIALS
ALL BASE BUILDING STANDARDS AND SPECIFICATIONS WHICH ARE PART OF THE BASE BUILDING CONTRACT DOCUMENTS APPLY TO ALL WORK INDICATED ON THESE DOCUMENTS, INCLUDING THE FOLLOWING MINIMUM REQUIREMENTS.
    A. ALL PIPE SHALL BE SCH. 40 GALVANIZED.
    B. ALL PIPE SHALL BE UL LISTED AND FM APPROVED.
    C. ALL VALVES, FITTINGS, ETC. SHALL BE OF THE APPROVED AND LISTED TYPE.
22. GUARANTEES
FURNISH TO THE OWNER AT THE COMPLETION OF THIS WORK, A WRITTEN GUARANTEE (IN TRIPLICATE) STATING THAT ALL EQUIPMENT, MATERIALS, AND WORK PERFORMED ARE IN FULL ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE GUARANTEE SHALL ALSO STATE THAT THIS WORK AND ALL SUBSEQUENT CHANGE ORDERS, ARE FULLY GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE, AND ANY EQUIPMENT, MATERIALS, OR WORKMANSHIP WHICH MAY PROVE DEFECTIVE WITHIN THAT TIME MAY BE REPLACED AT NO COST TO THE OWNER.
23. FIRE STOPPING
INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURERS PUBLISHED DIRECTIONS AND PER FIRE TESTED DESIGNS THAT HAVE BEEN ACCEPTED BY THE APPROPRIATE CODE AUTHORITY HAVING JURISDICTION.
24. PHASING
PHASING SHALL BE COORDINATED BETWEEN THE SPRINKLER CONTRACTOR AND GENERAL CONTRACTOR. SPRINKLER INSTALLATION SHALL BE PHASED IN A MANNER WHICH WILL ALLOW FULL OCCUPANCY OF THE EXISTING FACILITY WHILE THE INSTALLATION IS IN PROGRESS.
25. CUTTING, PATCHING, REMOVAL, AND REPLACEMENT. FOR REPLACEMENT OF WORK REMOVED, MATCH EXISTING IN NATURE, CONSTRUCTION AND FINISH.
26. ALTERNATES/SUBSTITUTIONS
CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY CONTRACTOR PROPOSED SUBSTITUTION OF MATERIALS OR METHODS OF INSTALLATION FROM THAT SPECIFIED. THESE ALTERNATES SHALL BE LISTED ON THE PROPOSAL AS CONTRACTOR ALTERNATES.
27. PROVIDE CONTRACTORS MATERIAL AND TEST CERTIFICATES FOR ALL SYSTEMS INSTALLED.
27. PROVIDE CONTRACTORS MATERIAL AND TEST CERTIFICATES FOR ALL SYSTEMS INSTALLED.
28. PROVIDE AN AIR VENT AS REQUIRED PER NFPA 13.

Revisions / Submission

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PROFESSIONAL ENGINEER
THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
11.13.25

Coleman Partners ARCHITECTS
cparch.com

3377 North Boulevard
Baton Rouge, LA 70806
tel 225.387.4414

3701 Kirby Drive, Suite 830
Houston,TX 77098
tel 832.947.1038

935 Gravier Street
New Orleans, LA 70112
tel 504.322.3191

MEP + STRUCTURAL + CIVIL ENGINEER
SALAS O'BRIEN
5215 Essen Ln, Suite 100
Baton Rouge, LA 70809
225.766.8002

SWRO PLANT CIVIL ENGINEER
TSG WATER RESOURCES
2401 NE 18th Terrace B,
Gainesville, FL 32609
352.371.6925

WESTIN ST JOHN RESORT
NEW REVERSE OSMOSIS PLANT
300 CHOCOLATE HOLE
ST. JOHN, USVI

Project Number: 24032.05
Date: NOVEMBER 14, 2025
Project Architect: JMH

FIRE PROTECTION DETAILS SPECIFICATIONS & SCHEDULES

FP2.01

FIRE PROTECTION NOTES AND SPECIFICATIONS

1. THE SPRINKLER DESIGN DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THE SPRINKLER CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
2. THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
3. THE SPRINKLER CONTRACTOR SHALL VISIT THE SITE TO DETERMINE ACTUAL FIELD CONDITIONS AND EXTENT OF WORK.
4. THE SPRINKLER DESIGN AS SHOWN IS A REPRESENTATIVE DESIGN ONLY. THE SPRINKLER CONTRACTOR SHALL BASE HIS DESIGN ON THE LATEST ARCHITECTURAL AND MECHANICAL DRAWINGS AND ACTUAL FIELD CONDITIONS BEFORE ANY FABRICATION OR INSTALLATION OF THE PROPOSED SPRINKLER WORK. FINAL SPRINKLER COUNT IS BY THE CONTRACTOR.
5. THE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED PER NFPA #13, USVI FIRE CODE AND MVW FLS STANDARDS
6. SYSTEMS SHALL BE TESTED HYDROSTATICALLY AT NOT LESS THAN 200 POUNDS PER SQUARE INCH PRESSURE FOR TWO HOURS, OR AT 50 POUNDS PER SQUARE INCH IN EXCESS OF THE MAXIMUM STATIC PRESSURE WHEN THE MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 POUNDS.
7. THE SPRINKLER CONTRACTOR SHALL PAY FOR ALL PERMITS AND FEES RELATED TO THE SPRINKLER WORK.
8. THE SPRINKLER CONTRACTOR SHALL SUBMIT SAMPLE SPRINKLERS TO THE ARCHITECT FOR APPROVAL BEFORE INSTALLATION.
9. PROVIDE WET SYSTEM LOW POINT DRAINS AND AUXILIARY DRAINS AS NECESSARY.
10. THE OWNER SHALL PROVIDE A MINIMUM 40 DEGREES F TEMPERATURE THROUGHOUT ALL AREAS OF THE BUILDING WHERE WET PIPE SPRINKLER SYSTEMS ARE PROVIDED.
11. THE SPRINKLER CONTRACTOR SHALL PROVIDE HANGERS PER NFPA #13.
MAXIMUM SYSTEM PRESSURE EXCEEDS 100 PSI. HANGER ASSEMBLIES SUPPORTING THE PIPE SUPPLYING AN END SPRINKLER IN A PENDENT POSITION SHALL BE RESTRAINED TO PREVENT UPWARD MOVEMENT OF THE PIPING AND BE LOCATED NO GREATER THAT 12" FROM THE SPRINKLER.
12. SUBMIT FOUR (4) SETS OF ENGINEERED SHOP DRAWINGS TO THE ARCHITECT (INCLUDING CATALOG CUTS AND HYDRAULIC CALCULATIONS) FOR APPROVAL PRIOR TO FABRICATION AND THE START OF WORK.
13. SUBMIT FOUR (4) SETS OF ENGINEERED SHOP DRAWINGS TO THE ST JOHN FIRE PREVENTION BUREAU, MVW, AND ZURICH INSURANCE FOR APPROVAL PRIOR TO FABRICATION AND THE START OF WORK.
14. DELIVER MATERIAL TO THE JOB SITE, UNLOAD AND STORE IT IN A LOCATION AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
15. MAINTAIN THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH COVERED BY THIS WORK. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC. AND LEAVE THE PREMISES CLEAN.
16. THE SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER PROTECTION UNDER ALL MECHANICAL DUCTWORK AND/OR OBSTRUCTIONS IN EXPOSED STRUCTURE AREAS, IN ACCORDANCE WITH NFPA #13 REQUIREMENTS.
17. THE SPRINKLER GUARDS SHALL BE PROVIDED FOR ALL SPRINKLERS WITHIN 7'-0" ABOVE FINISHED FLOOR AND/OR IN AREAS SUBJECT TO MECHANICAL DAMAGE.
18. THE SPRINKLER CONTRACTOR SHALL PROVIDE SIX (6) SPARE SPRINKLERS COMPLETE WITH WRENCH AND CABINET. TURN OVER TO BUILDING ENGINEER ON COMPLETION OF JOB.
19. GENERAL DESIGN
    A. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED. CONTRACTOR SHALL SUBMIT CALCULATIONS WITH SHOP DRAWINGS. CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA #13.
    B. THE FIRE PROTECTION SYSTEM SHALL BE HYDRAULICALLY CALCULATED AS FOLLOWS:
        1) OFFICE AREAS, CORRIDORS, ETC: NFPA #13, LIGHT HAZARD.
        2) MECHANICAL ROOMS: NFPA #13, ORDINARY HAZARD, GROUP 1.
        3) SMALL STORAGE AREAS, WITH STORAGE LESS THAN 12' HIGH: NFPA #13, ORDINARY HAZARD, GROUP 2.
    C. ADD APPROPRIATE HOSE ALLOWANCE.
    D. PROVIDE A MINIMUM SAFETY FACTOR CUSHION OF 10 PSI OR 10% OF DESIGN PRESSURE, WHICHEVER IS GREATER, TO HYDRAULIC CALCULATIONS.
    E. THE SPRINKLER CONTRACTOR SHALL OBTAIN THE LATEST FIRE PUMP TEST AT THE SITE TO VERIFY THE AVAILABLE WATER SUPPLY.
20. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY WORK REQUIRED FOR EXTENDING DROPS, RELOCATING SPRINKLERS AND/OR PROVIDING NEW SPRINKLERS AND PIPING AS REQUIRED TO ACCOMMODATE NEW CEILING ELEVATIONS, LIGHTING AND DIFFUSER LOCATIONS AND ALL CEILING HIGH PARTITIONS, DROPPED CEILINGS, BAFFLES AND LIGHTING CORNICES WHICH FORM AN OBSTRUCTION TO SPRINKLER DISCHARGE PATTERN.
21. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY WORK REQUIRED FOR EXTENDING DROPS, RELOCATING PIPING AND/OR PROVIDING NEW PIPING AS REQUIRED DUE TO NEW CONSTRUCTION. THIS SHALL INCLUDE, FOR EXAMPLE, RAISING EXISTING BRANCHLINES AND MAINS DUE TO NEW CEILING HEIGHTS AND/OR NEW DUCT WORK, ETC. DO NOT ASSUME THAT ALL PIPING IS TO REMAIN.
22. LEAK DAMAGE
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    A. PIPE 2" AND SMALLER SHALL BE SCH. 40 WITH THREADED ENDS.
    B. PIPE 2-1/2" AND LARGER SHALL BE SCH. 10 WITH ROLLED GROOVED ENDS.
    C. ALL PIPE SHALL BE UL LISTED AND FM APPROVED.
    D. ALL VALVES, FITTINGS, ETC. SHALL BE OF THE APPROVED AND LISTED TYPE.
24. GUARANTEES
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THOMAS EVANS
0-37505-18
U.S. VIRGIN ISLANDS
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Coleman Partners ARCHITECTS
cparch.com

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Baton Rouge, LA 70806
tel 225.387.4414

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300 CHOCOLATE HOLE
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FIRE PROTECTION SPECIFICATIONS

FP3.01

11/12/2025 7:23:42 PM
Autodesk Docs://24032_MVW Westin St John CAPEX Projects_r24/Westin St John_CAPEX Projects_MEP_R24.rvt

WESTIN ST. JOHN, USVI

2 x 150K GPD SEAWATER REVERSE OSMOSIS PLANT FROM OPEN SEA INTAKE

CIVIL

CIVIL		
Sheet Number	Sheet Name	
C-0000	SHEET LIST	
C-001A	WESTIN INTAKE APROXIMATE PIPE LINE LOCATION	
C-001B	WESTIN INTAKE PIPE LINE DEMO	
C-002	OVERALL LINE LAYOUT	
C-003	OVERALL LINE PROFILE	
C-004	LAYOUT PLAN SWRO FACILITY	NOT PROVIDED IN THIS SET
C-004 A	TRENCH PLAN LAYOUT SWRO FACILITY	NOT PROVIDED IN THIS SET
C-005	CUT SECTIONS SWRO FACILITY	NOT PROVIDED IN THIS SET
C-006	LAYOUT PLAN INTAKE WATER FACILITY	
C-007	CUT SECTIONS INTAKE WATER FACILITY	
C-008	INTAKE WATER PIPE PLAN VIEW - A-A	
C-009	INTAKE WATER PIPE PLAN VIEW - B-B	
C-010	INTAKE WATER PIPE PLAN VIEW - C-C	
C-011	INTAKE WATER PIPE PLAN VIEW - D-D	
C-012	INTAKE WATER PIPE PROFILE - A-A	
C-013	INTAKE WATER PIPE PROFILE - B-B	
C-014	INTAKE WATER PIPE PROFILE - C-C	
C-015	INTAKE WATER PIPE PROFILE - D-D	
C-016	INTAKE PIPE SURF AND BLOCK DETAILS	

REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
U.S. VIRGIN ISLANDS
11/14/2025

TSG TECHNOLOGIES
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

100%DD



REGISTERED ENGINEER
BRADLEY
CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

PLAN NOTES:

1. FLANGE CONNECTIONS ARE LOCATED AT THE FOLLOWING APPROXIMATE LOCATIONS, TO BE FIELD VERIFIED:
18°19' 17.61" N, 64° 47' 22.71" W
18° 19' 23.62" N, 64° 47' 17.06" W
THE BALANCE OF HDPE PIPING WILL BE FUSION WELDED IN THE FIELD.
2. HDPE WATER INTAKE PIPE SHALL BE 12" HDPE SDR 11 OR EQUIVALENT.

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

CIVIL
WESTIN INTAKE APROXIMATE PIPE LINE LOCATION

DWG NO. C-001A
DATE DEC. 2025
PROJ NO. 02-103-106

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0-67914-1B
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11/14/2025

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2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

CIVIL
WESTIN INTAKE PIPE LINE DEMO

DWG NO. C-001B
DATE DEC. 2025
PROJ NO. 02-103-106

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N TRUE

N PROJECT

REGISTERED ENGINEER
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0-67914-1B
VIRGIN ISLANDS
11/14/2025

STA (APP) 1+98
APPR. MHW

TREE LINE

N24° 44'35"E
55.00'

S60° 01'11"E
182.91'

EXISTING UTILITY(UTIL) LINE
FIELD COORDINATE WITH INTAKE
WATER PIPE
(REFER TO 3530 AB-7 SHEET)

SHEET C-009

ESTIMATED CENTER OF GUT

APP. GUINEA GUT AREA
PIPE SUPPORT W SURF. BLOCKS

STATION 0+00

PROPOSED WATER INTAKE FACILITY

STA 0+63.8
SEE SHEET C-008

SHEET C-008

STA 2+76.6
SEE SHEET C-010

STA 3+09
SEE SHEET C-010
APPR. MLW

GREAT CRUZ BAY

1,190' ± 0' WIDTH

POOL

SNORKELS

POOL BAR

SNORKELS BAR & GRILL

SNORKELS BAR & GRILL

SEE SHEET C-011

STA 10+09.9

INTAKE WATER SCREEN

STA 10+34
SEE SHEET C-011

1 OVERALL
1" = 200'-0"

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DSGN SD, SS
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APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

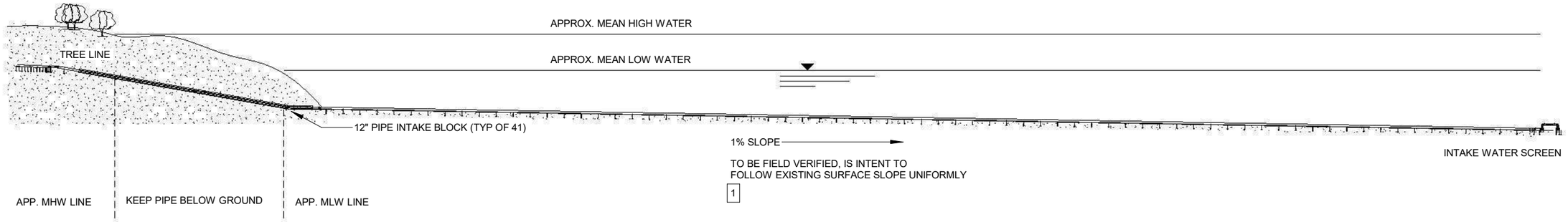
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2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
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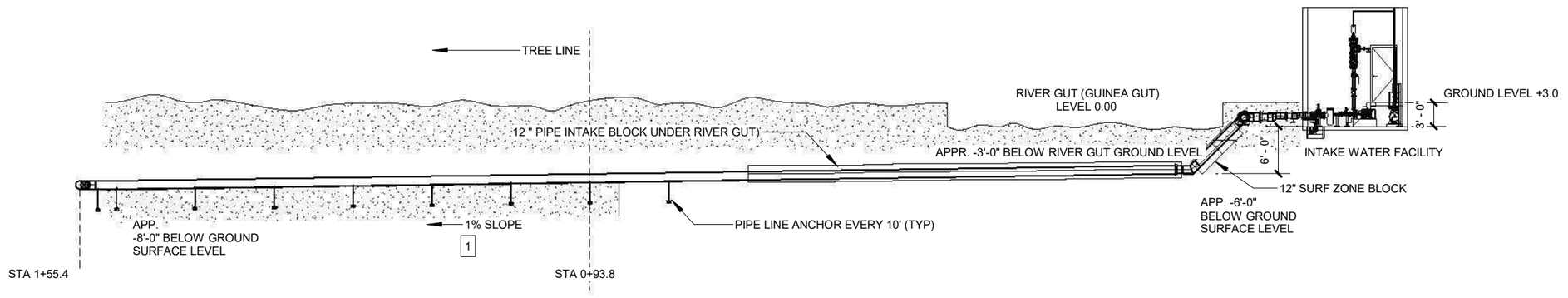
CIVIL
OVERALL LINE LAYOUT

DWG NO. C-002
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



1 INTAKE LINE PROFILE A-A
1/64" = 1'-0"



2 OVERALL LINE PROFILE B-B
1/16" = 1'-0"

REGISTERED ENGINEER
BRADLEY
CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

GENERAL NOTES:
1. UNDERWATER PIPING TO FOLLOW EXISTING SURFACE SLOPE AND MUST MAINTAIN A SLOPE DOWNWARDS TOWARD INTAKE SCREEN.

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GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

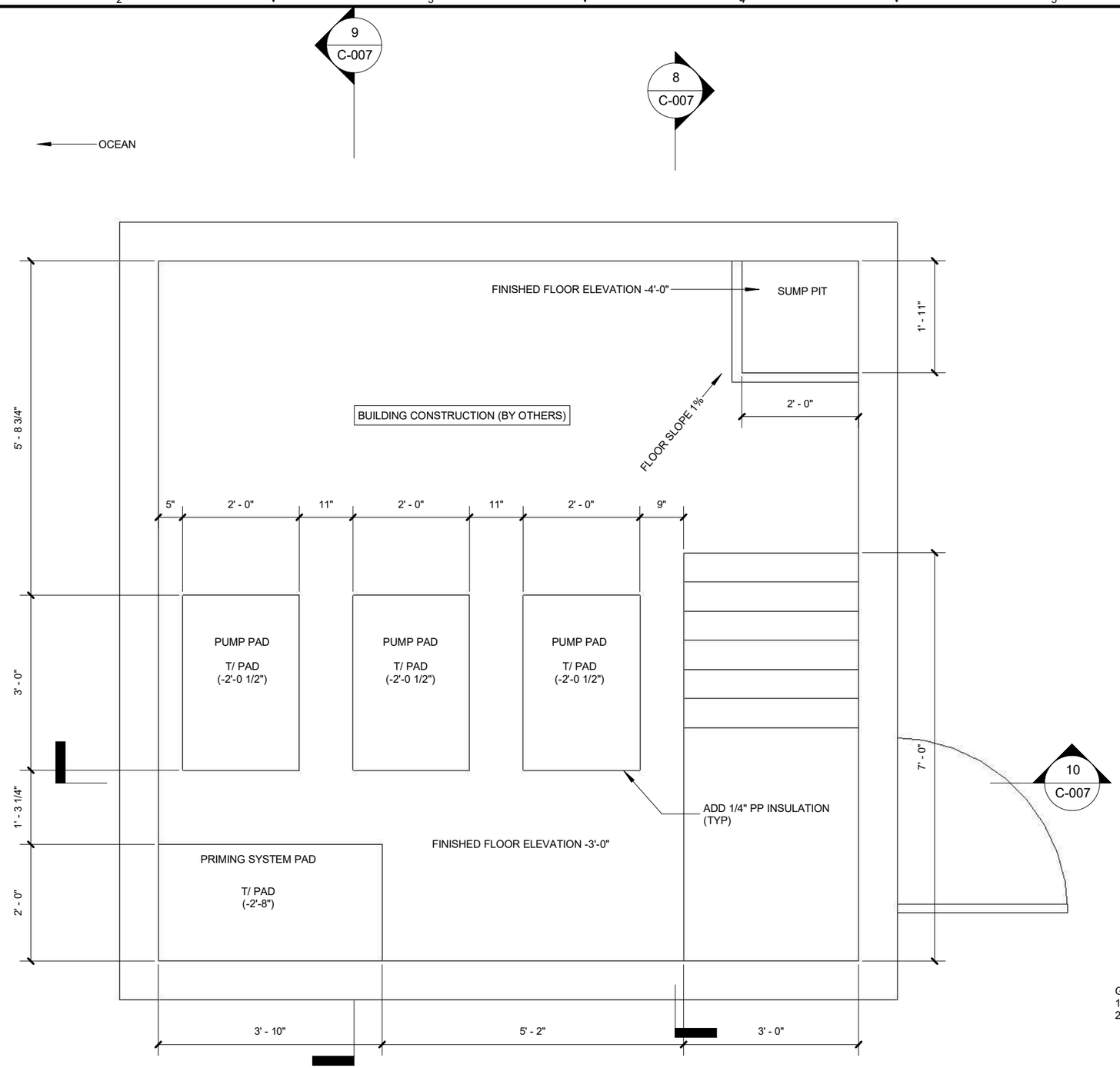
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

CIVIL
OVERALL LINE PROFILE

DWG NO. C-003
DATE DEC. 2025
PROJ NO. 02-103-106

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1 LAYOUT PLAN INTAKE WATER FACILITY
1/2" = 1'-0"

GENERAL NOTE:
1. BUILDING CONSTRUCTION BY OTHERS.
2. SUMP CONSTRUCTION BY OTHERS.

REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

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DR TH
CHK SD, SS
APVD SD, SS

TSG
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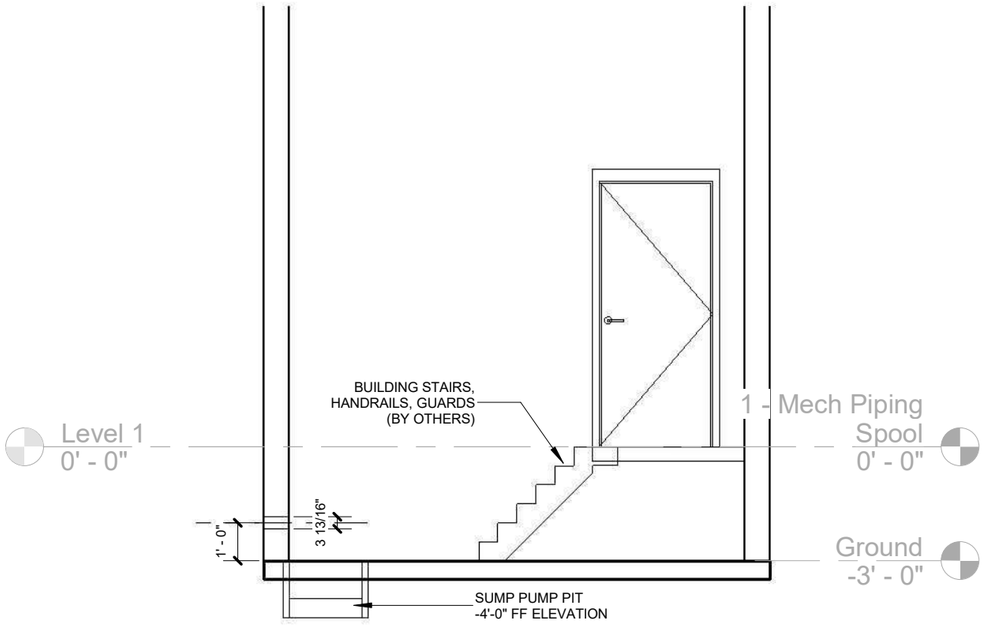
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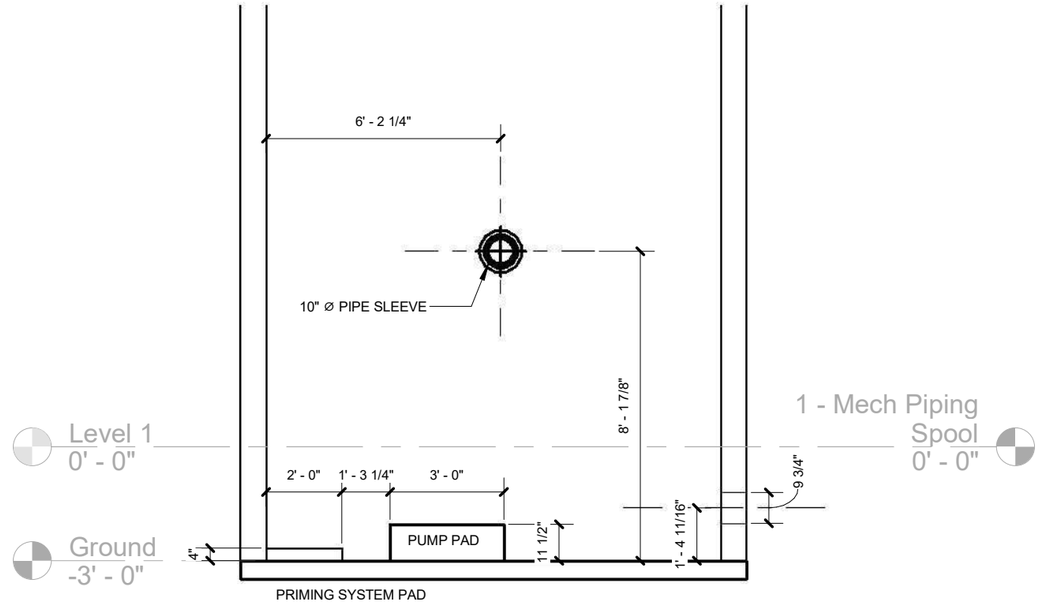
CIVIL
LAYOUT PLAN INTAKE WATER FACILITY

DWG NO. C-006
DATE DEC. 2025
PROJ NO. 02-103-106

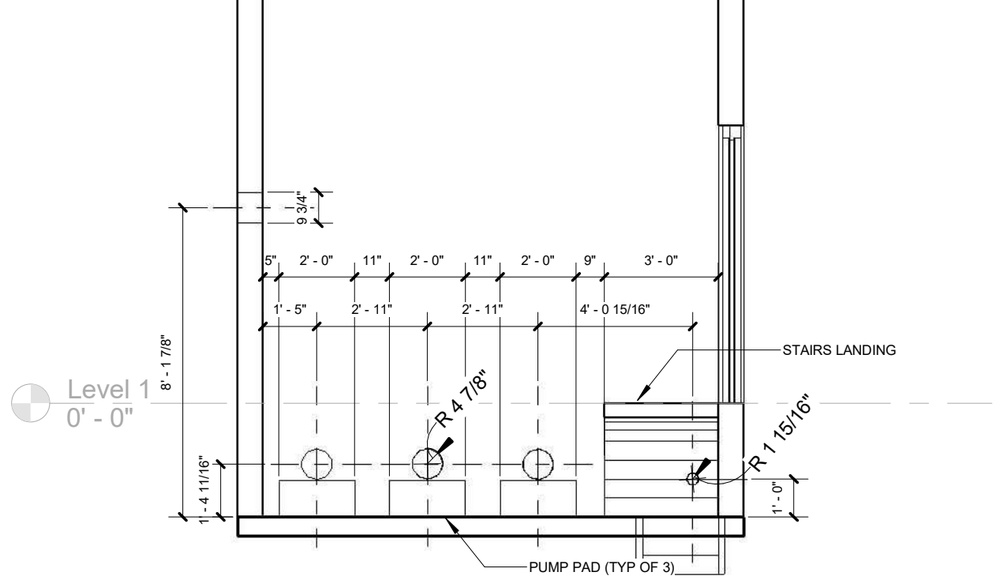
100%DD



8 Section 8
1/4" = 1'-0"



9 Section 9
1/4" = 1'-0"



10 Section 10
1/4" = 1'-0"

GENERAL NOTE:
1. BUILDING CONSTRUCTION BY OTHERS.
2. SUMP CONSTRUCTION BY OTHERS.
3. STAIRS, HANDRAILS, GUARDS BY OTHERS.
4. PUMP PLINTHS BY OTHERS.

REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

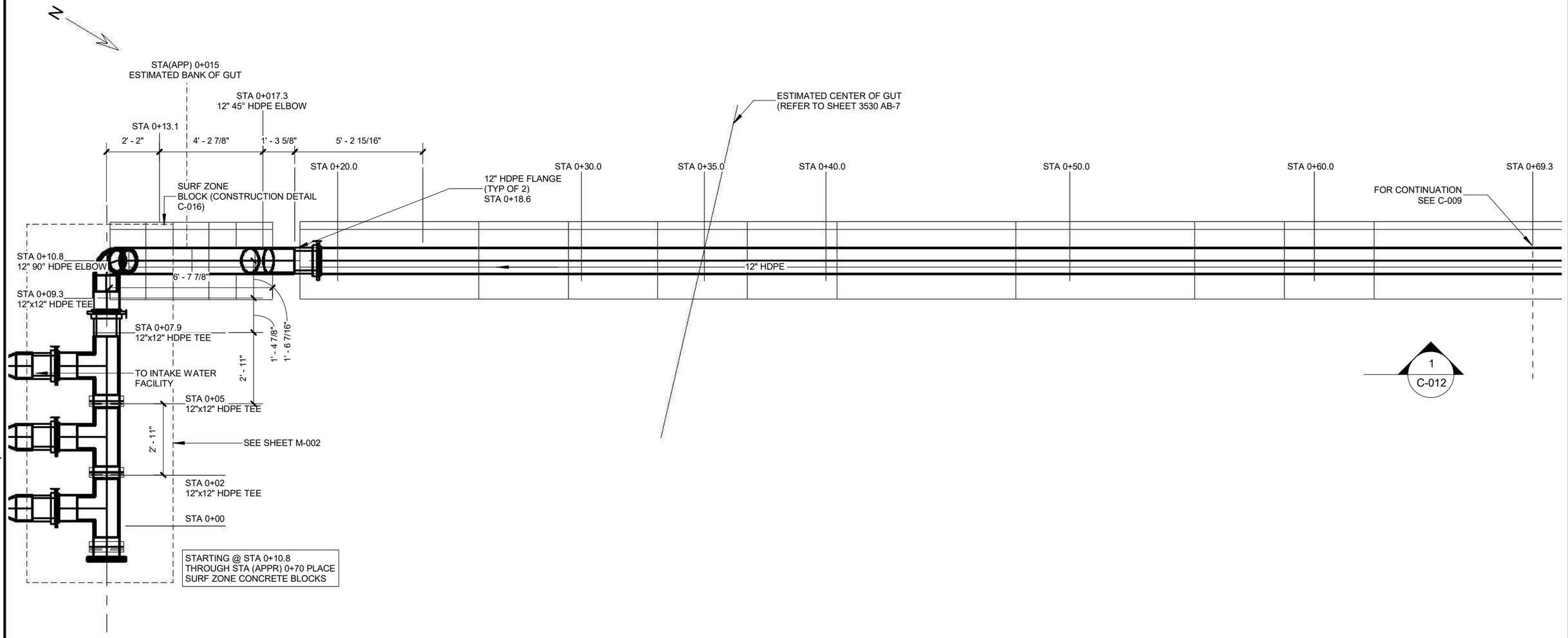
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

CIVIL
CUT SECTIONS INTAKE WATER FACILITY

DWG NO. C-007
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



INTAKE WATER PIPE PLAN VIEW - A-A

1/4" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
BRADLEY
CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

GENERAL NOTES:

1.FOR CLARITY, STA(APPR) 0+70 TO STA(APPR) 0+99 HAVE BEEN OMITTED FROM THIS SET.

FROM STA(APPR) 0+72 TO STA(APPR) 1+72, CONSTRUCTION TO ADD SAND SCREW EVERY 10 FOOT.

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

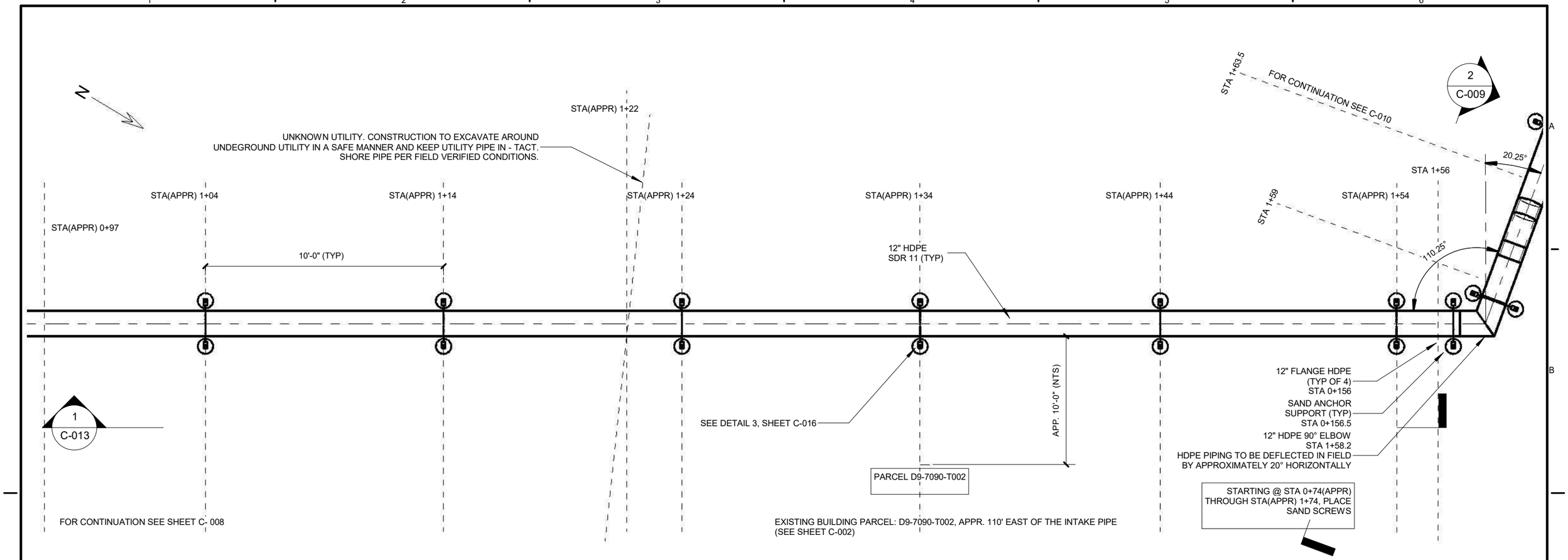
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

CIVIL
INTAKE WATER PIPE PLAN VIEW - A-A

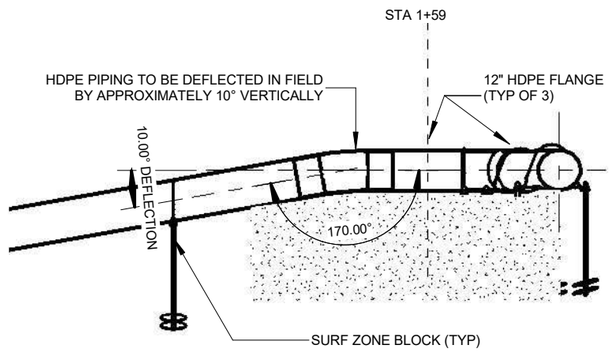
DWG NO. C-008
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



1 INTAKE WATER PIPE PLAN VIEW - B-B- PLAN VIEW

1/4" = 1'-0"



2 INTAKE WATER ELEVATION VIEW

1/4" = 1'-0"

REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
U.S. VIRGIN ISLANDS
11/14/2025

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

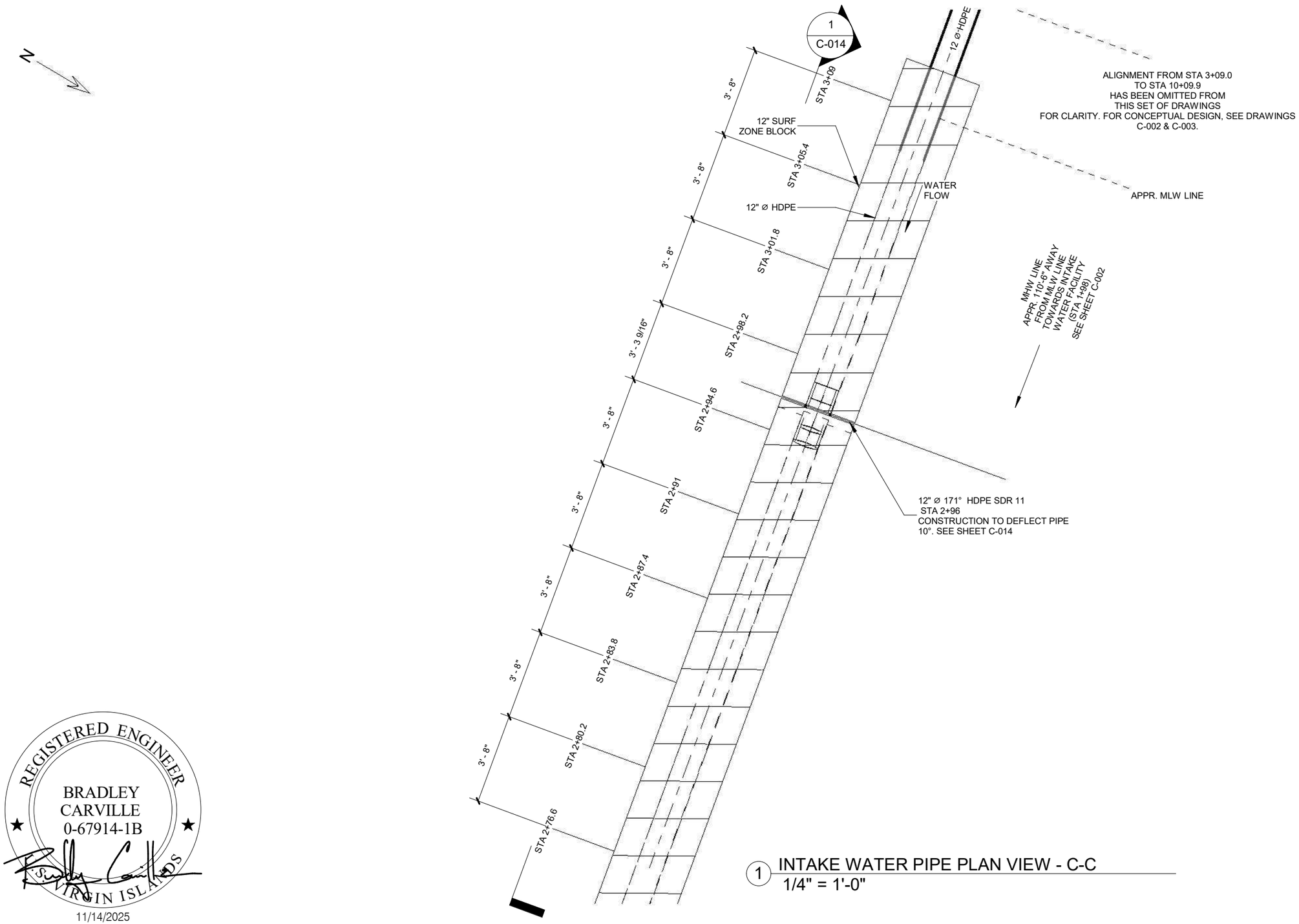
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT FROM OPEN SEA INTAKE

CIVIL
INTAKE WATER PIPE PLAN VIEW - B-B

DWG NO. C-009
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



1 INTAKE WATER PIPE PLAN VIEW - C-C
1/4" = 1'-0"

REGISTERED ENGINEER
BRADLEY
CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

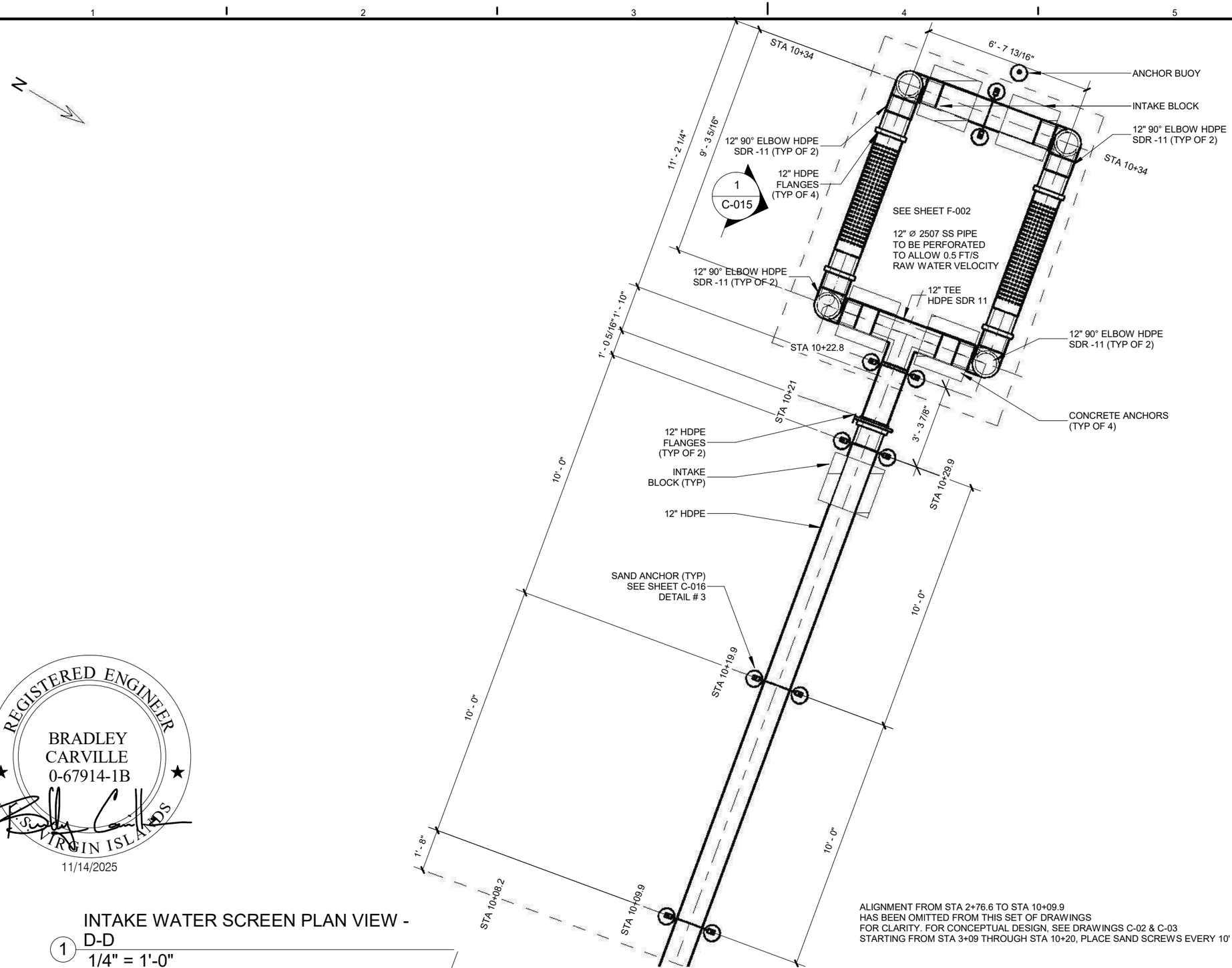
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

CIVIL
INTAKE WATER PIPE PLAN VIEW - C-C

DWG NO. C-010
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



ALIGNMENT FROM STA 2+76.6 TO STA 10+09.9
HAS BEEN OMITTED FROM THIS SET OF DRAWINGS
FOR CLARITY. FOR CONCEPTUAL DESIGN, SEE DRAWINGS C-02 & C-03
STARTING FROM STA 3+09 THROUGH STA 10+20, PLACE SAND SCREWS EVERY 10'

REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
U.S. VIRGIN ISLANDS
11/14/2025

1 INTAKE WATER SCREEN PLAN VIEW - D-D
1/4" = 1'-0"

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES. C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

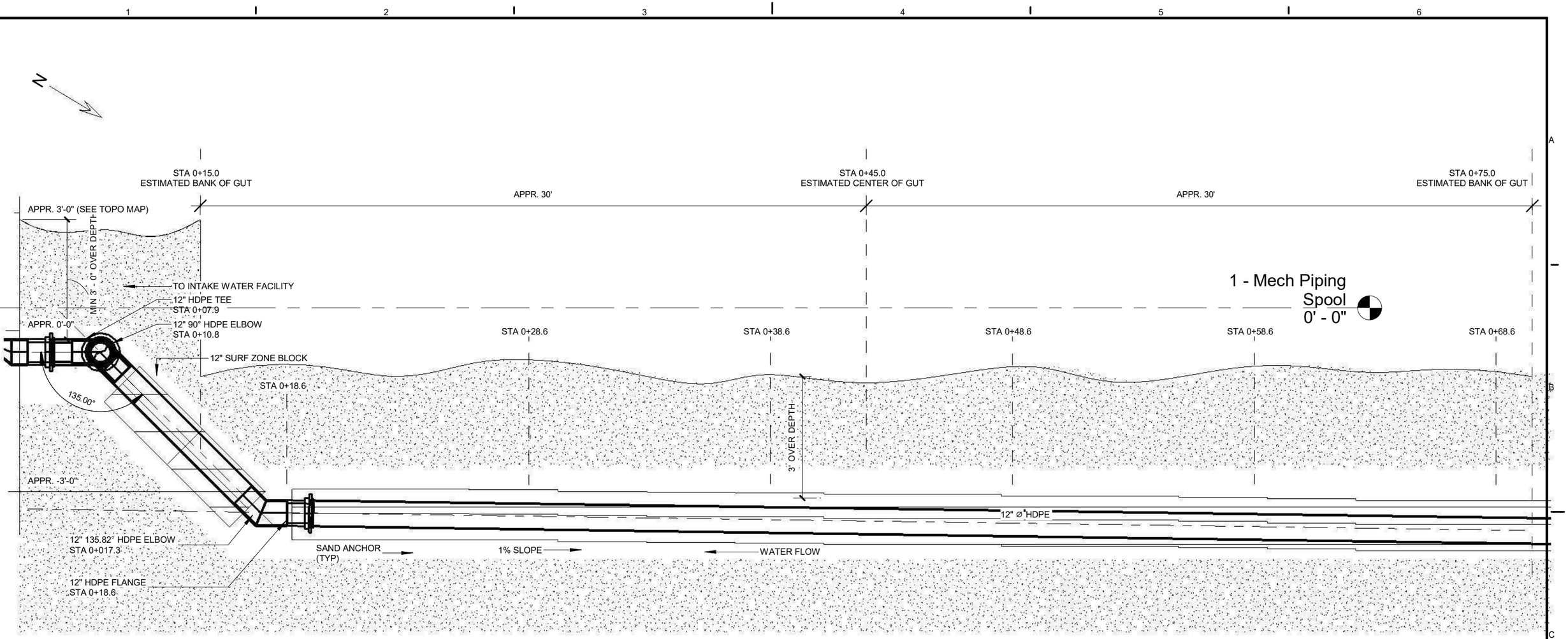
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

CIVIL
INTAKE WATER PIPE PLAN VIEW - D-D

DWG NO. C-011
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



1 INTAKE WATER PIPE PROFILE - A-A

1/4" = 1'-0"

REGISTERED ENGINEER
BRADLEY
CARVILLE
0-67914-1B
VIRGIN ISLANDS

11/14/2025

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

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0" — 1"

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DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

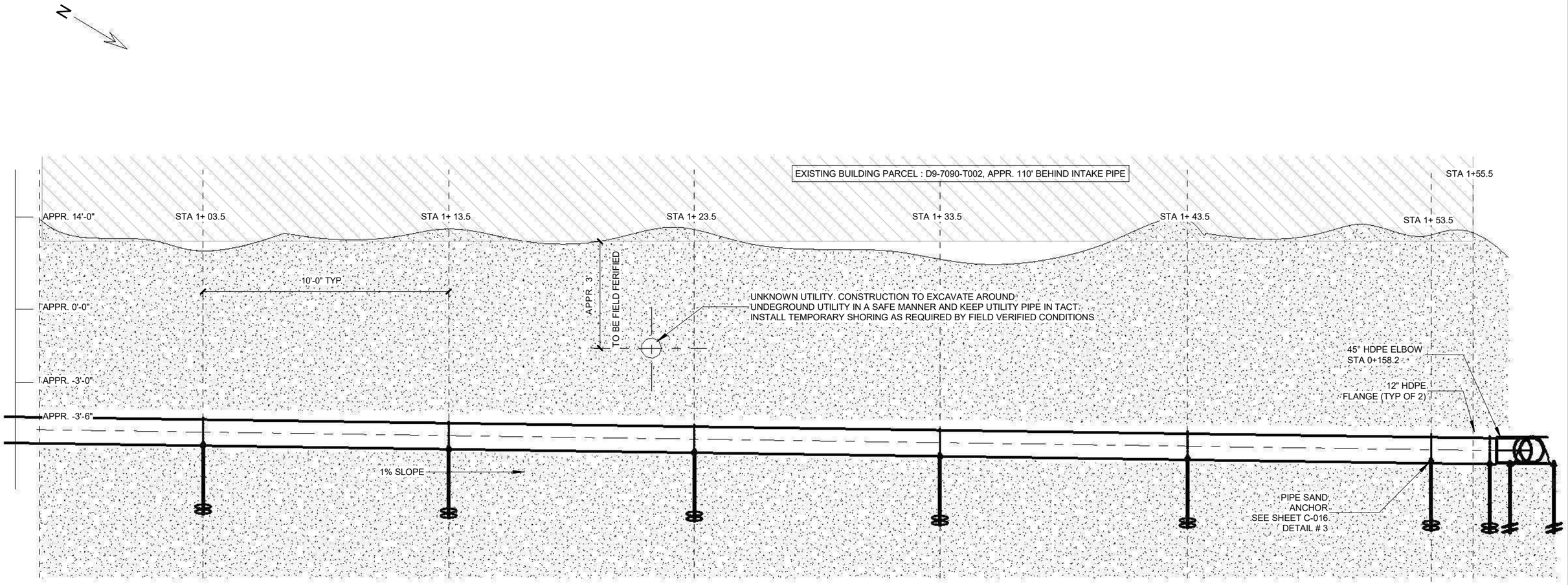
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

CIVIL
INTAKE WATER PIPE PROFILE - A-A

DWG NO. C-012
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



1 INTAKE WATER PIPE PROFILE B-B
1/4" = 1'-0"

REGISTERED ENGINEER
BRADLEY
CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

GENERAL NOTES:
1. FOR STA 1+57 TO STA 1+00, SEE DRAWING C-009.
2. PIPE ALIGNMENT SHALL BE ADJUSTED TO AVOID PIPE INTERFERENCE AND ALIGNMENT OF PROPOSED PIPE TO MAINTAIN CONSTANT SLOPE TOWARDS INTAKE STRUCTURE.

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
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DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

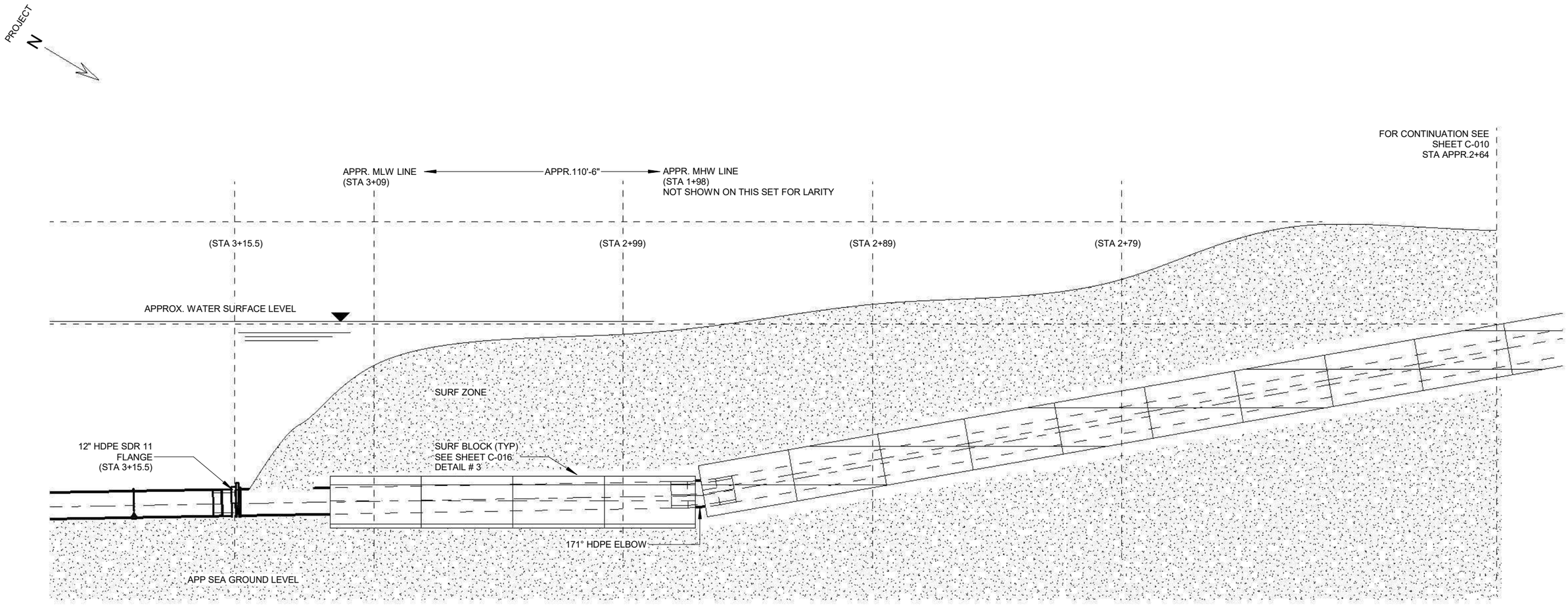
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

CIVIL
INTAKE WATER PIPE PROFILE - B-B

DWG NO. C-013
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



1 INTAKE WATER PIPE PROFILE - C-C
1/4" = 1'-0"

REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
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DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

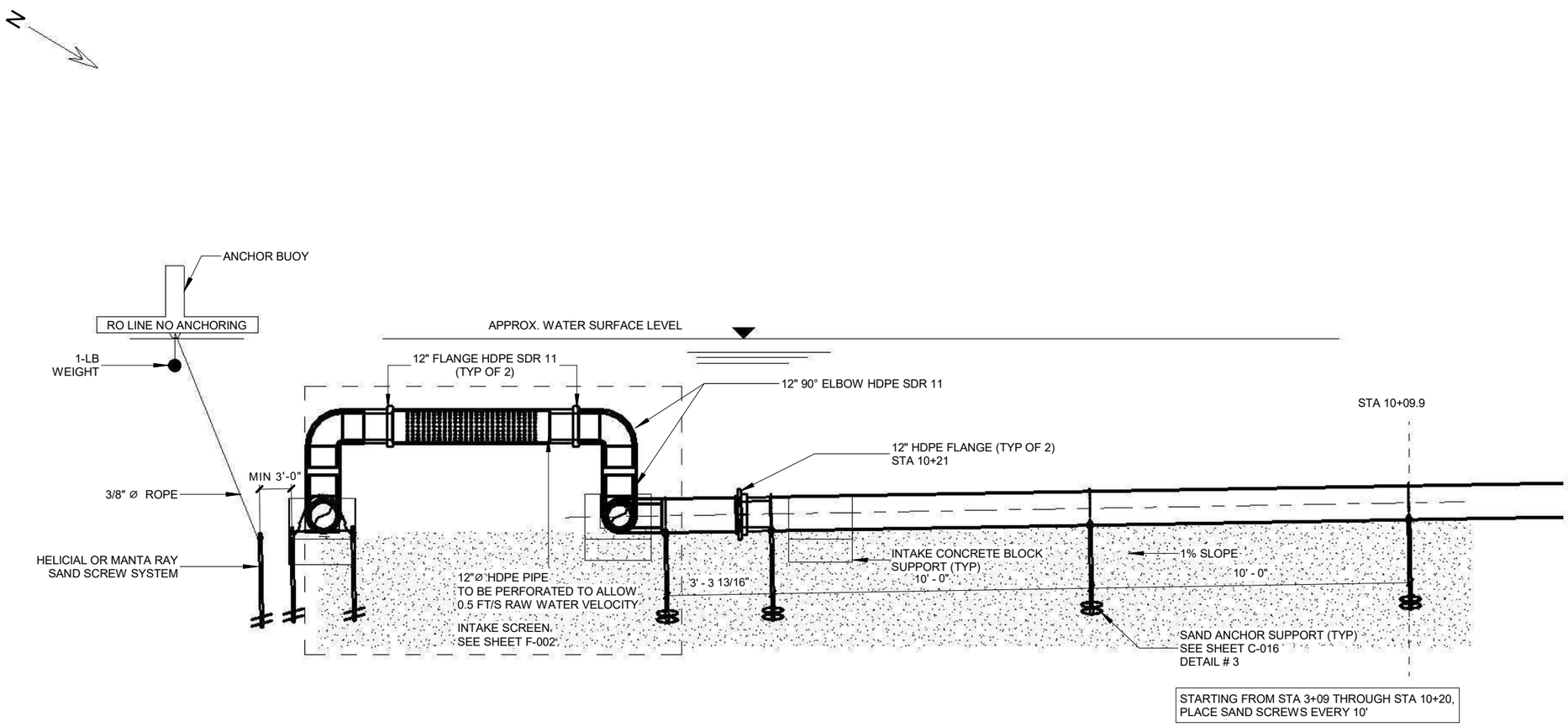
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

CIVIL
INTAKE WATER PIPE PROFILE - C-C

DWG NO. C-014
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



1 INTAKE WATER PIPE PROFILE - D-D
1/4" = 1'-0"

REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
VIRGIN ISLANDS
11/14/2025

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
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0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

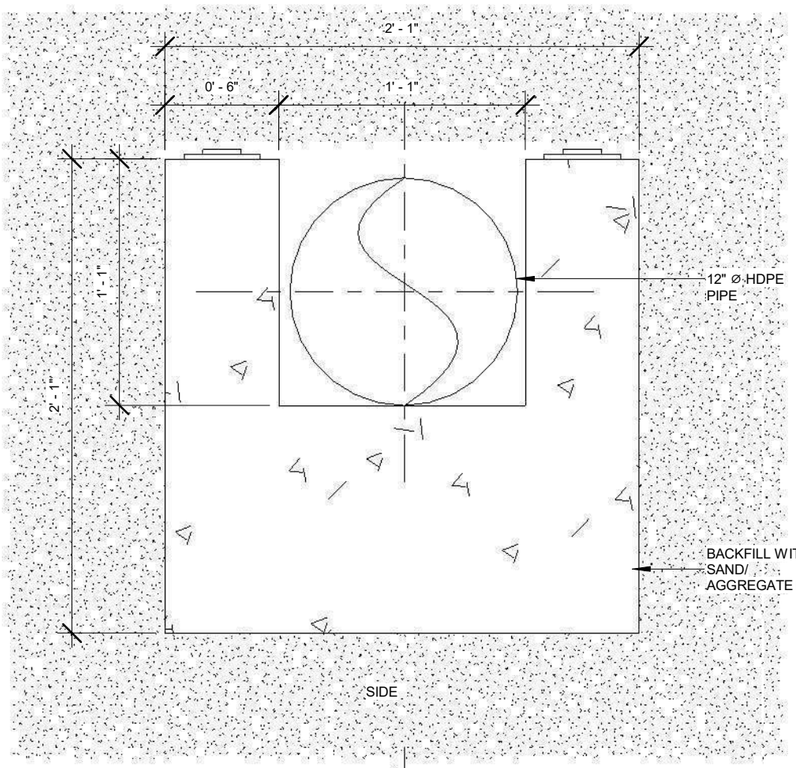
WESTIN ST. JOHN
ST. JOHN, USVI

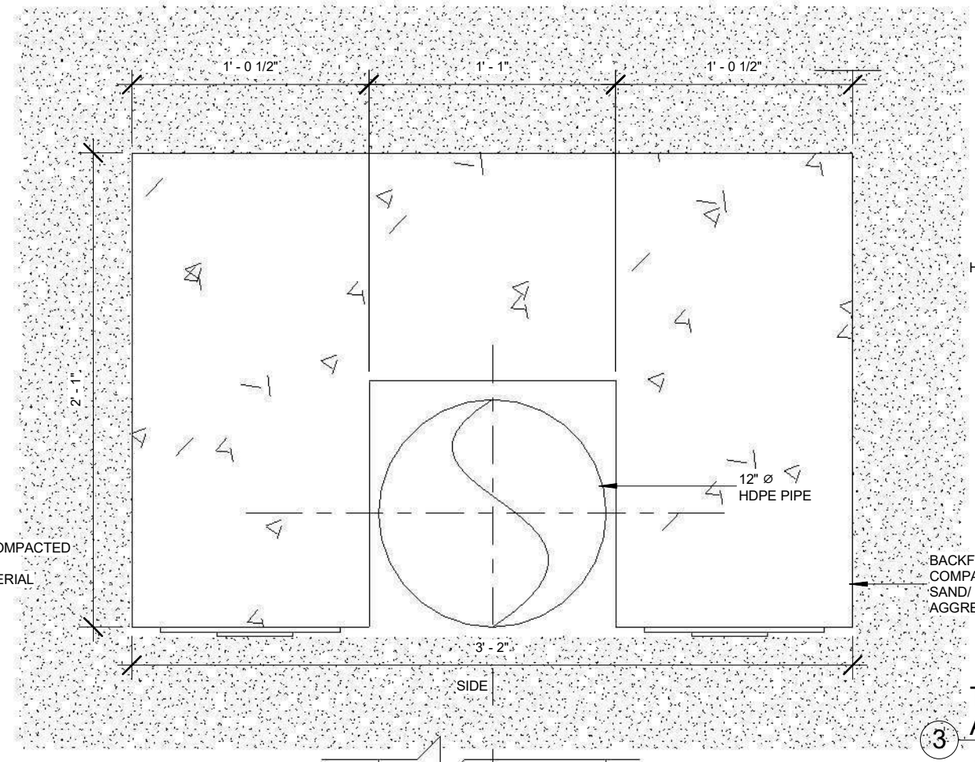
2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

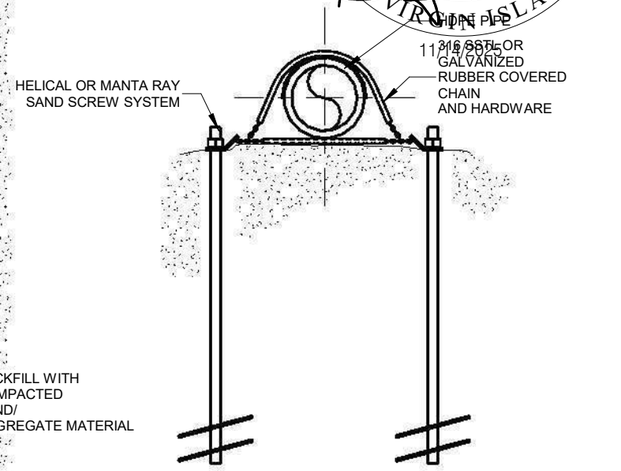
CIVIL
INTAKE WATER PIPE PROFILE - D-D

DWG NO. C-015
DATE DEC. 2025
PROJ NO. 02-103-106

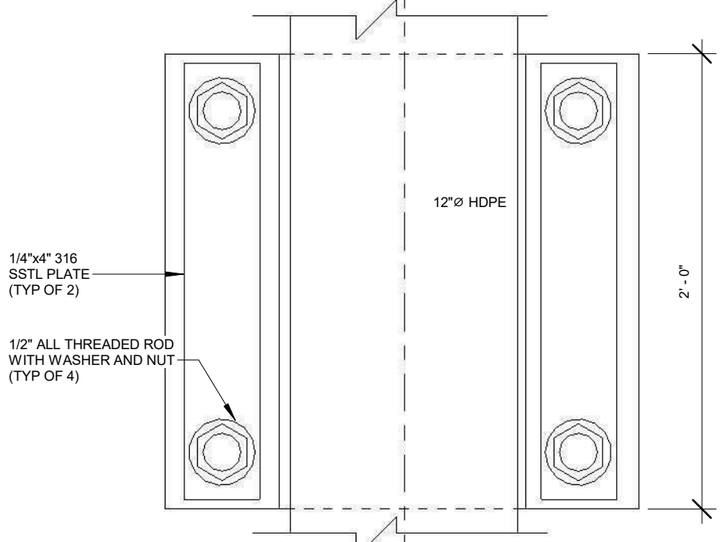
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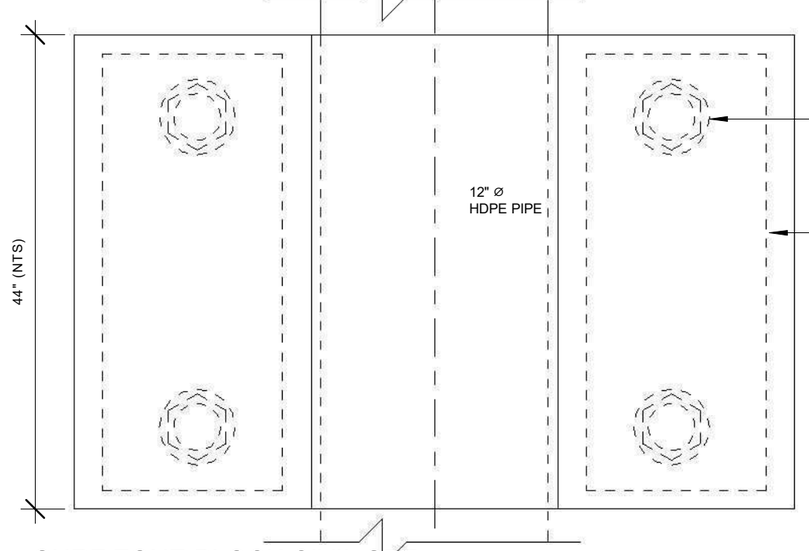


3 TYPICAL SUBMERGED PIPE LINE ANCHOR DETAIL CIVIL SET
3/4" = 1'-0"



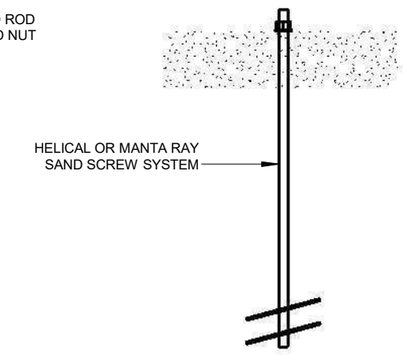
1 INTAKE BLOCK DETAIL CIVIL SET
1 1/2" = 1'-0"

FOR FABRICATION DETAILS SEE S - 003



2 SURF ZONE BLOCK CIVIL SET
1 1/2" = 1'-0"

FOR FABRICATION DETAILS SEE S - 003



4 TYPICAL SUBMERGED ANCHOR BUOY DETAIL
3/4" = 1'-0"

REGISTERED ENGINEER
BRADLEY CARVILLE
0-67914-1B
VIRGIN ISLANDS
11.18.2025

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT FROM OPEN SEA INTAKE

CIVIL
INTAKE PIPE SURF AND BLOCK DETAILS

DWG NO.	C-016
DATE	DEC. 2025
PROJ NO.	02-103-106

100%DD

WESTIN ST. JOHN, USVI

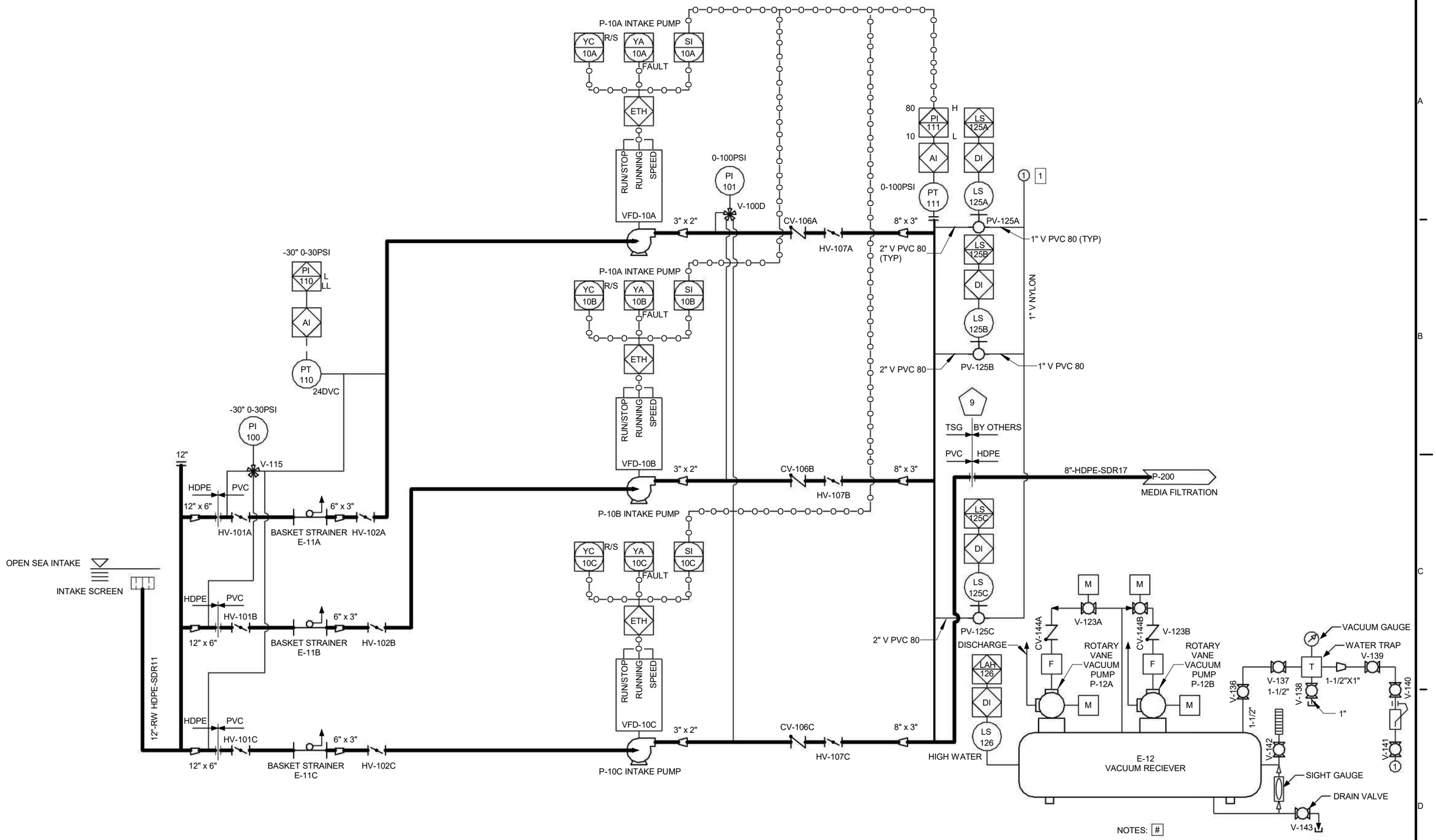
2 x 150K GPD SEAWATER REVERSE OSMOSIS PLANT FROM OPEN SEA INTAKE

P&ID

PID	
Sheet Number	Sheet Name
P-0000	SHEET LIST
P-100	RAW WATER SUPPLY
P-200	MEDIA FILTRATION
P-300	CARTRIDGE FILTER/ CHEMICAL SYSTEM
P-400	REVERSE OSMOSIS
P-500	POST TREATMENT
P-600	CLEANING
P-700	STORAGE/DISTRIBUTION
P-1000	CONCENTRATE AND DRAIN HEADER SYSTEM
PFD-100	PROCESS FLOW DIAGRAM

TSG TECHNOLOGIES
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

100% DD



NOTES: #

1. PRIMING SYSTEM CONNECTION TO BE AT A SYSTEM HIGH POINT

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

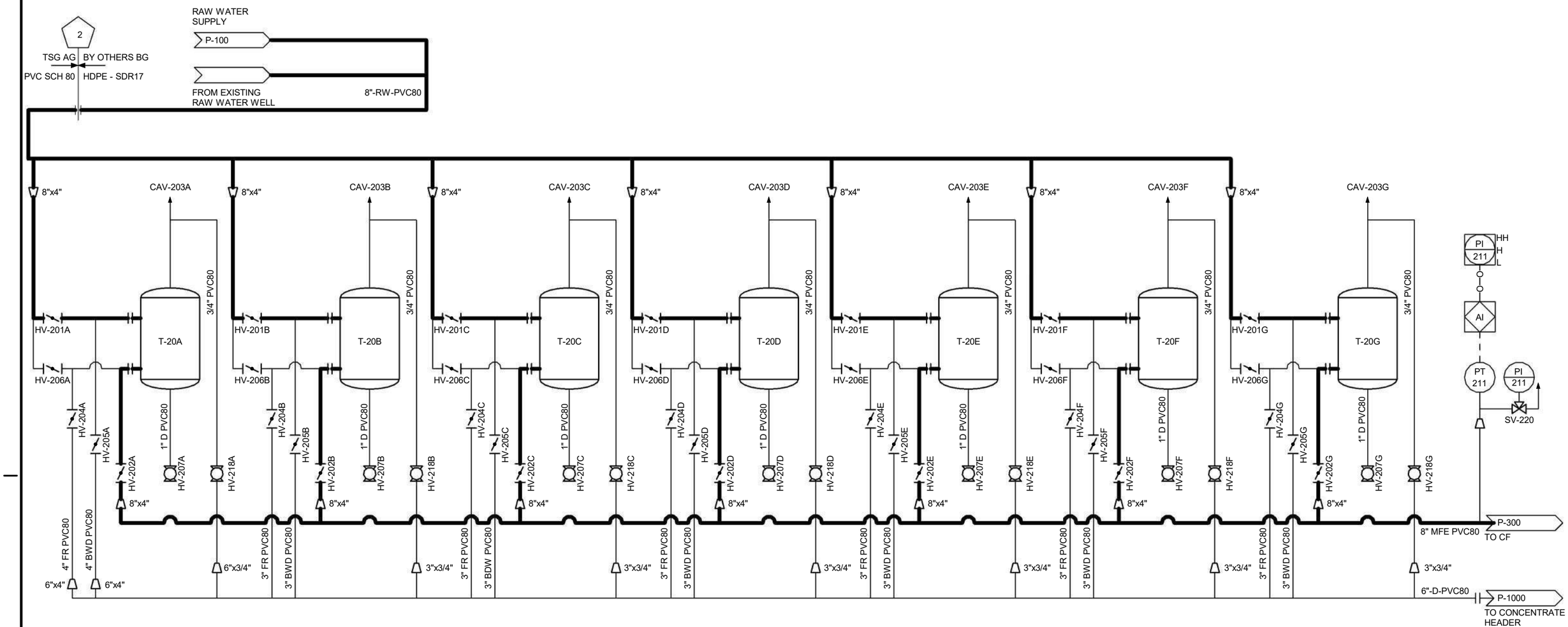
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

PROCESS
RAW WATER SUPPLY

DWG NO. P-100
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD



NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

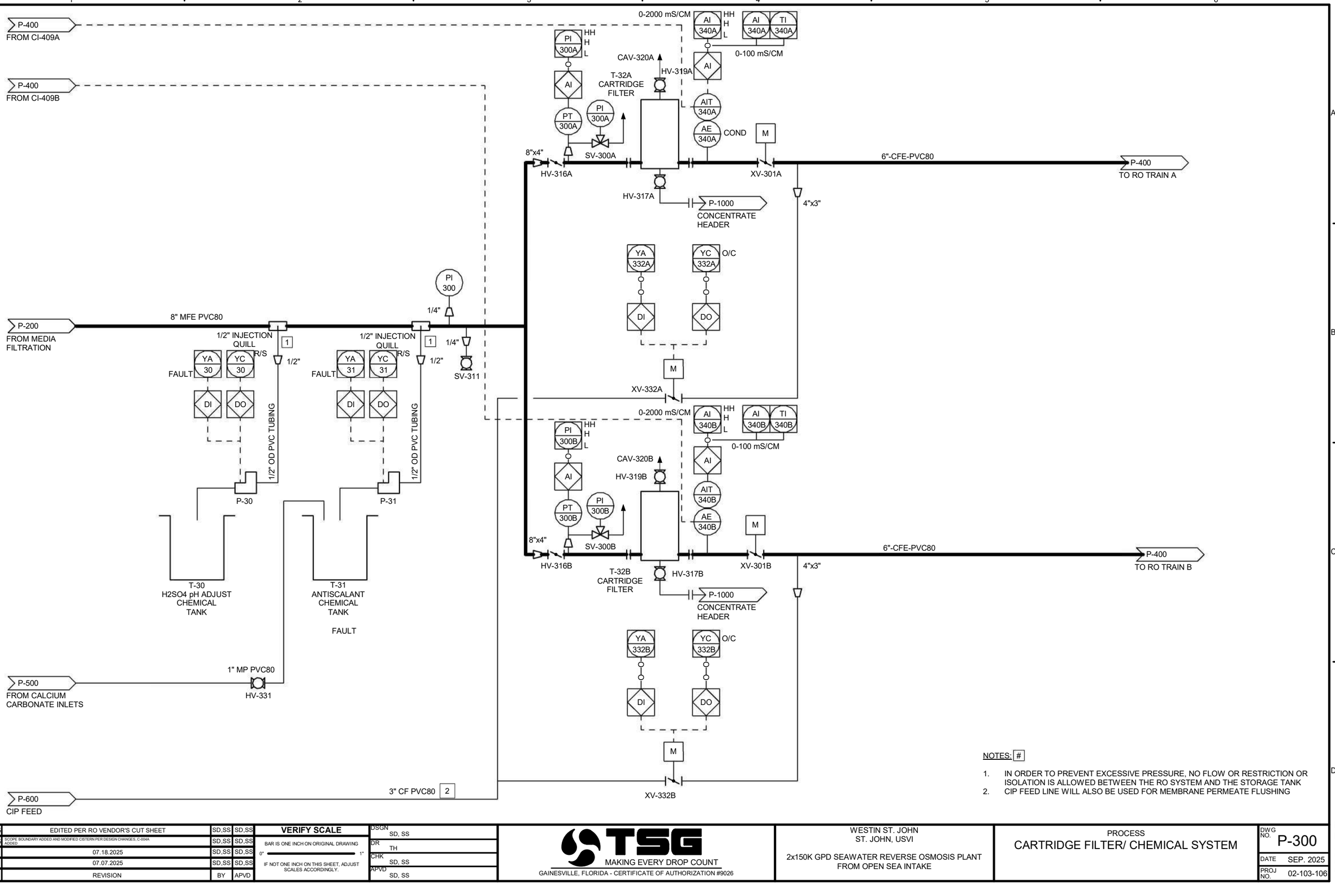
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

PROCESS
MEDIA FILTRATION

DWG NO.	P-200
DATE	SEP. 2025
PROJ NO.	02-103-106

100% DD



NOTES: #

1. IN ORDER TO PREVENT EXCESSIVE PRESSURE, NO FLOW OR RESTRICTION OR ISOLATION IS ALLOWED BETWEEN THE RO SYSTEM AND THE STORAGE TANK
2. CIP FEED LINE WILL ALSO BE USED FOR MEMBRANE PERMEATE FLUSHING

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

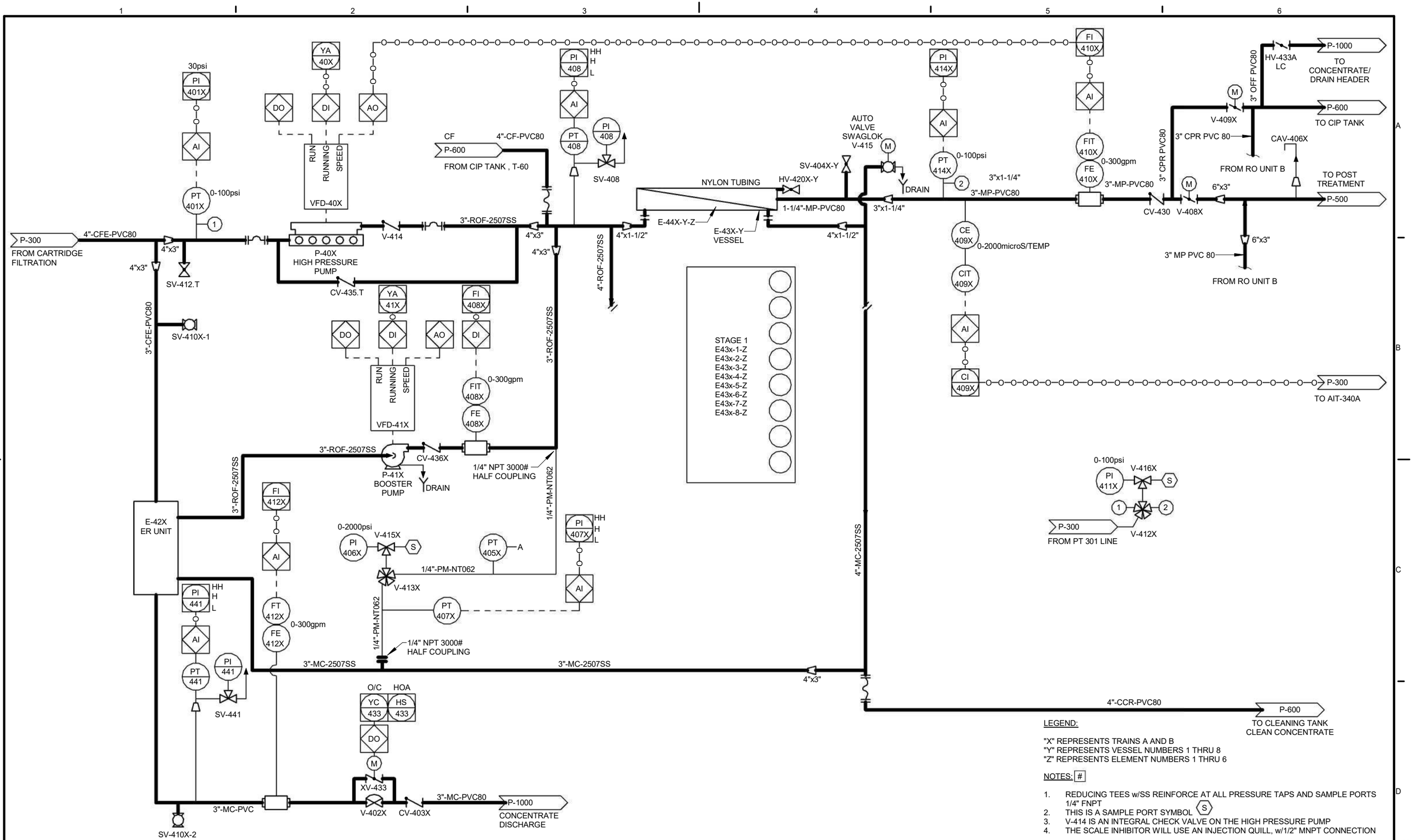
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

PROCESS
CARTRIDGE FILTER/ CHEMICAL SYSTEM

DWG NO. P-300
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD



LEGEND:

"X" REPRESENTS TRAINS A AND B
"Y" REPRESENTS VESSEL NUMBERS 1 THRU 8
"Z" REPRESENTS ELEMENT NUMBERS 1 THRU 6

NOTES: #

1. REDUCING TEES w/SS REINFORCE AT ALL PRESSURE TAPS AND SAMPLE PORTS 1/4" FNPT
2. THIS IS A SAMPLE PORT SYMBOL (S)
3. V-414 IS AN INTEGRAL CHECK VALVE ON THE HIGH PRESSURE PUMP
4. THE SCALE INHIBITOR WILL USE AN INJECTION QUILL, w/1/2" MNPT CONNECTION

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

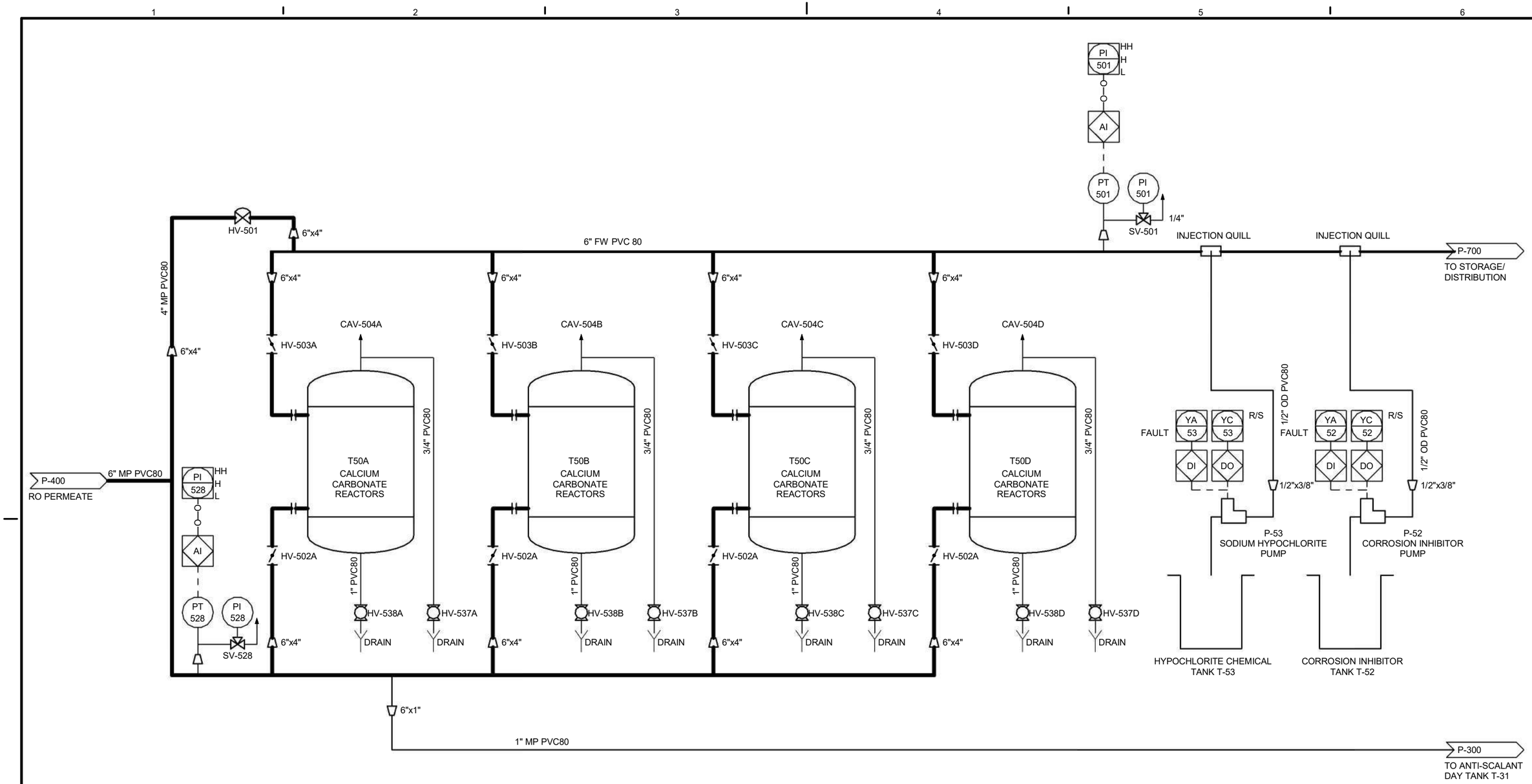
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

PROCESS
REVERSE OSMOSIS

DWG NO. P-400
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD



NOTES: #

1. 6"x1/2" CLAMP SADDLE REDUCED TO 1/4" ALL PRESSURE

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

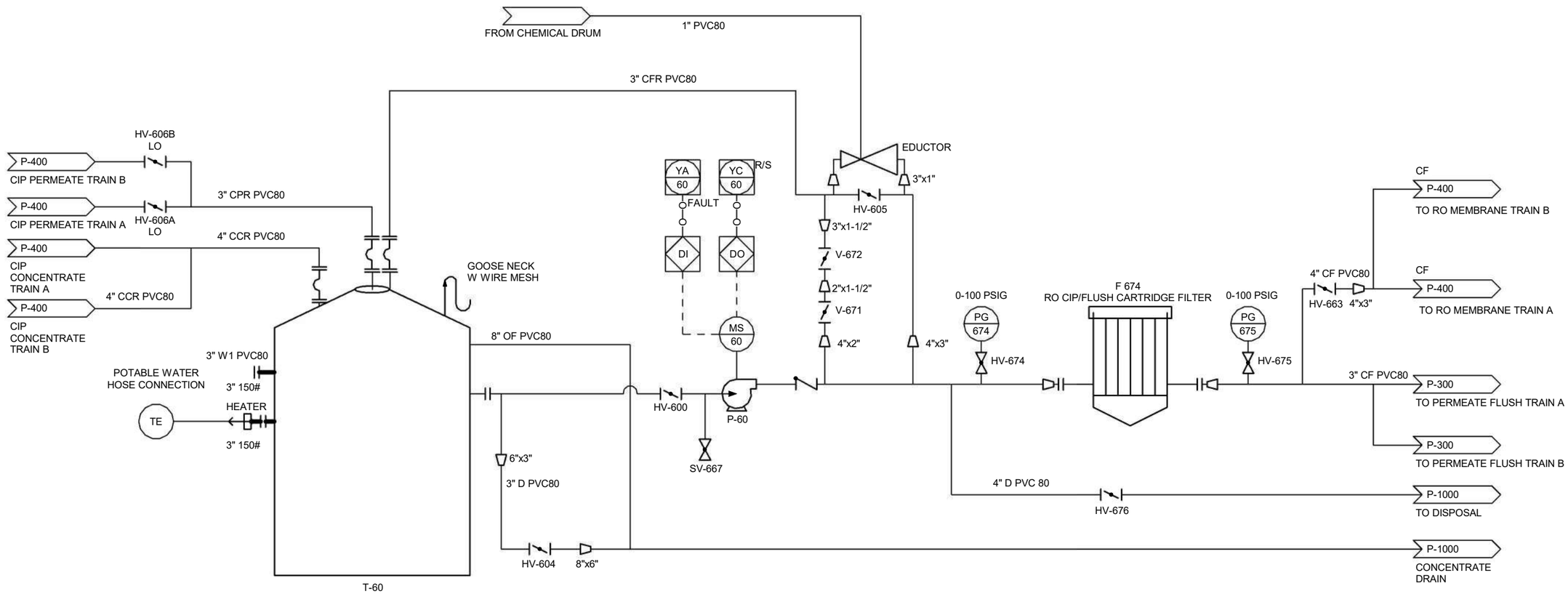
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

PROCESS
POST TREATMENT

DWG NO. P-500
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD



NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

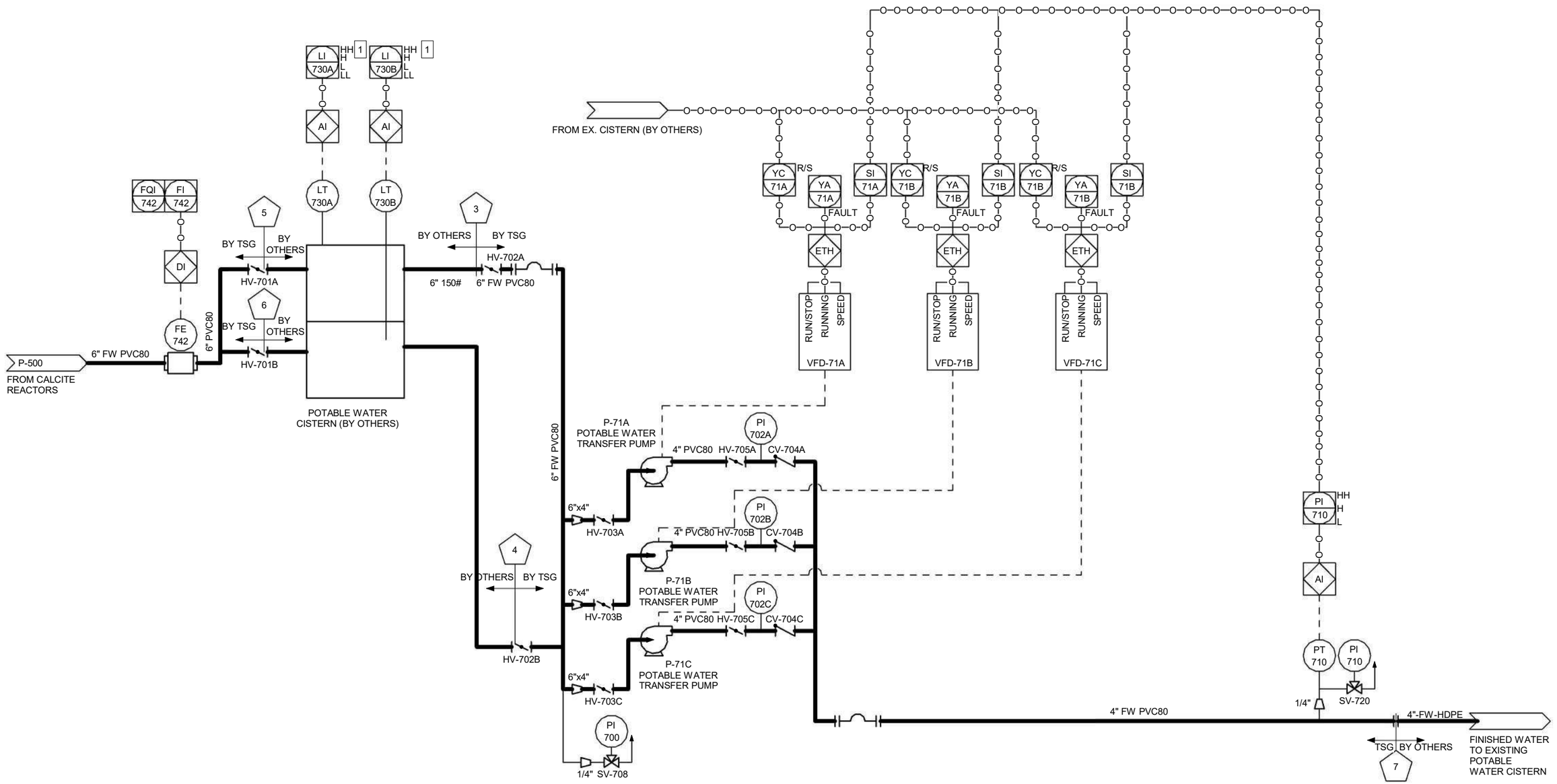
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

PROCESS
CLEANING

DWG NO. P-600
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD



GENERAL NOTES:

1. OPERATOR CAN CHOOSE EITHER LT-730A OR LT-730B TO CONTROL POTABLE WATER TRANSFER PUMPS (P-71A/B/C). THE NON - CONTROLING LT IS FOR INFORMATION ONLY.

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-604A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

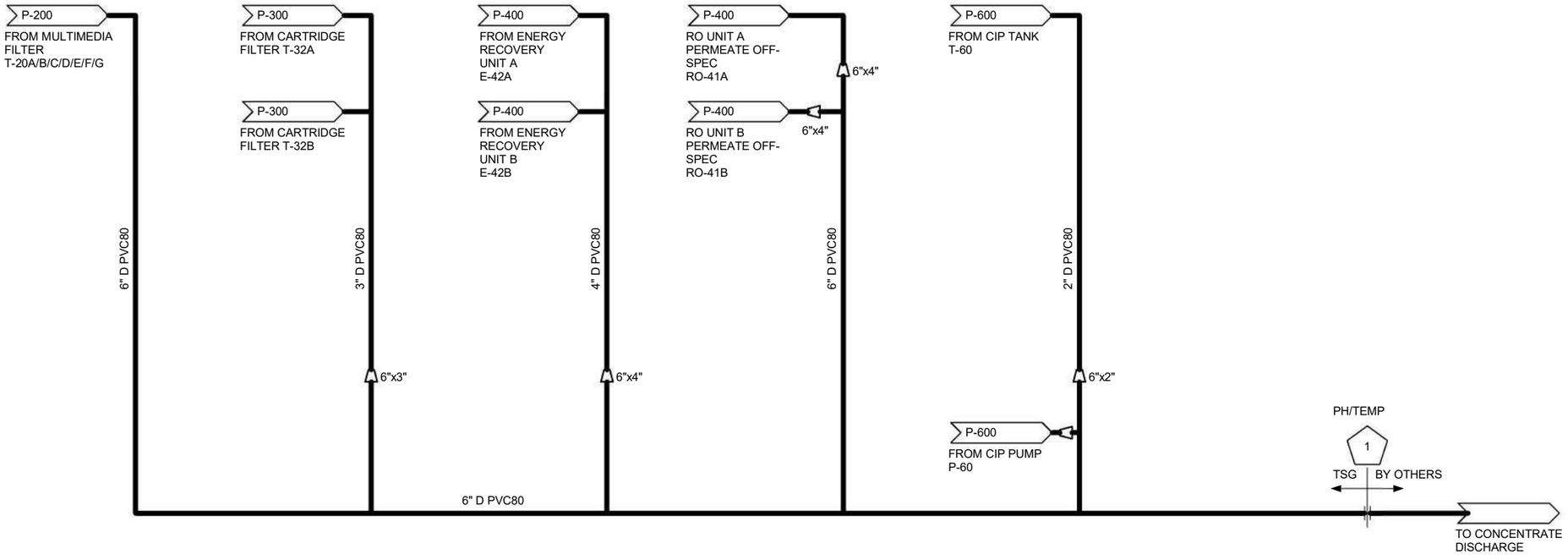
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

PROCESS
STORAGE/DISTRIBUTION

DWG NO.	P-700
DATE	SEP. 2025
PROJ NO.	02-103-106

100% DD



NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

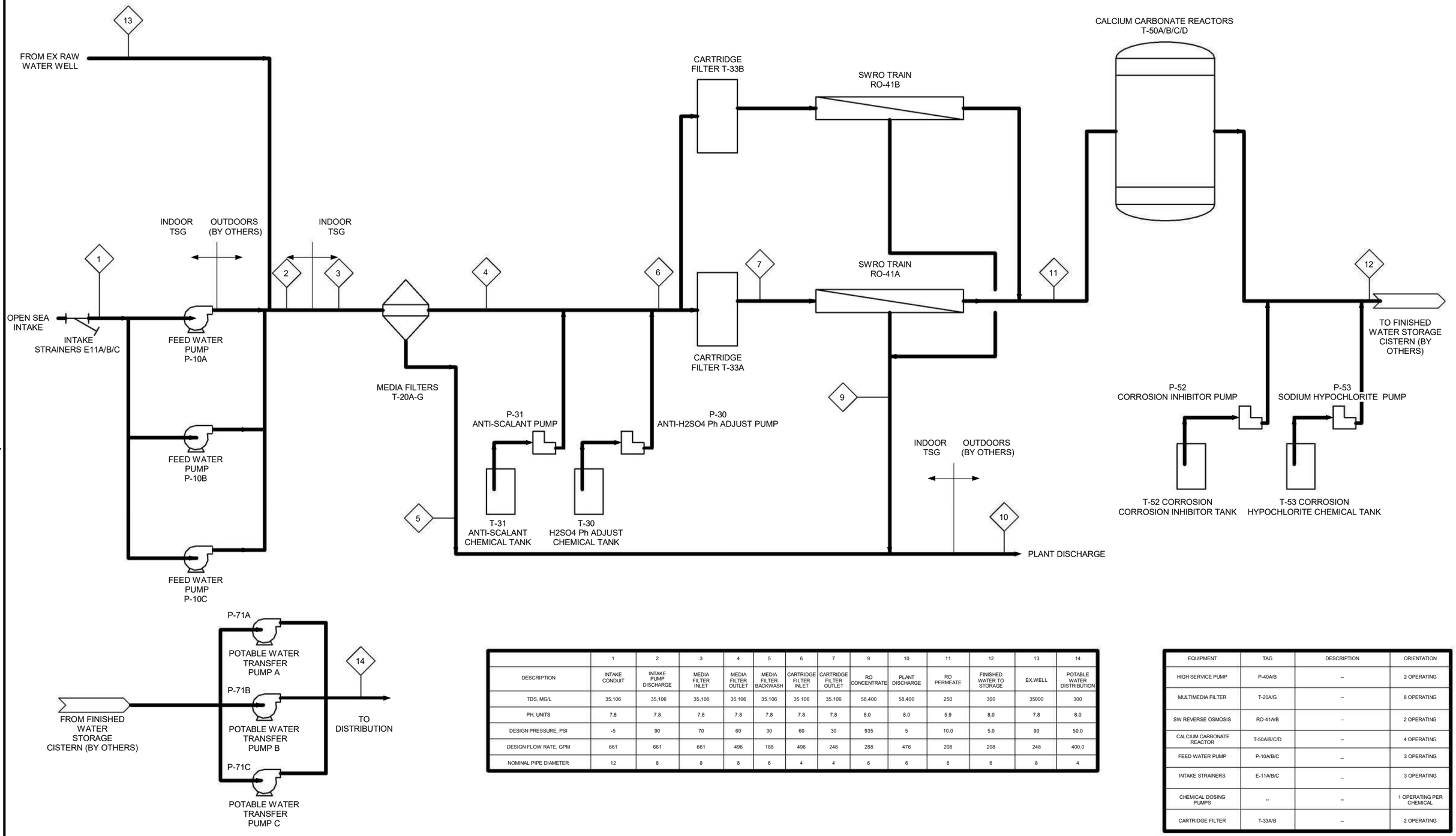
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

PROCESS
CONCENTRATE AND DRAIN HEADER SYSTEM

DWG NO. P-1000
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD



	1	2	3	4	5	6	7	9	10	11	12	13	14
DESCRIPTION	INTAKE CONDUIT	INTAKE PUMP DISCHARGE	MEDIA FILTER INLET	MEDIA FILTER OUTLET	MEDIA FILTER BACKWASH	CARTRIDGE FILTER INLET	CARTRIDGE FILTER OUTLET	RO CONCENTRATE	PLANT DISCHARGE	RO PERMEATE	FINISHED WATER TO STORAGE	EX.WELL	POTABLE WATER DISTRIBUTION
TDS, MG/L	35,106	35,106	35,106	35.106	35.106	35.106	35.106	58.400	58.400	250	300	35000	300
PH, UNITS	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.0	8.0	5.9	8.0	7.8	8.0
DESIGN PRESSURE, PSI	-5	90	70	60	30	60	30	935	5	10.0	5.0	90	50.0
DESIGN FLOW RATE, GPM	661	661	661	496	188	496	248	288	476	208	208	248	400.0
NOMINAL PIPE DIAMETER	12	8	8	8	6	4	4	6	6	6	6	8	4

EQUIPMENT	TAG	DESCRIPTION	ORIENTATION
HIGH SERVICE PUMP	P-40A/B	--	2 OPERATING
MULTIMEDIA FILTER	T-20A/G	--	8 OPERATING
SW REVERSE OSMOSIS	RO-41A/B	--	2 OPERATING
CALCIUM CARBONATE REACTOR	T-50A/B/C/D	--	4 OPERATING
FEED WATER PUMP	P-10A/B/C	--	3 OPERATING
INTAKE STRAINERS	E-11A/B/C	--	3 OPERATING
CHEMICAL DOSING PUMPS	--	--	1 OPERATING PER CHEMICAL
CARTRIDGE FILTER	T-33A/B	--	2 OPERATING

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

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DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

PROCESS
PROCESS FLOW DIAGRAM

DWG NO. PFD-100
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD

WESTIN ST. JOHN, USVI

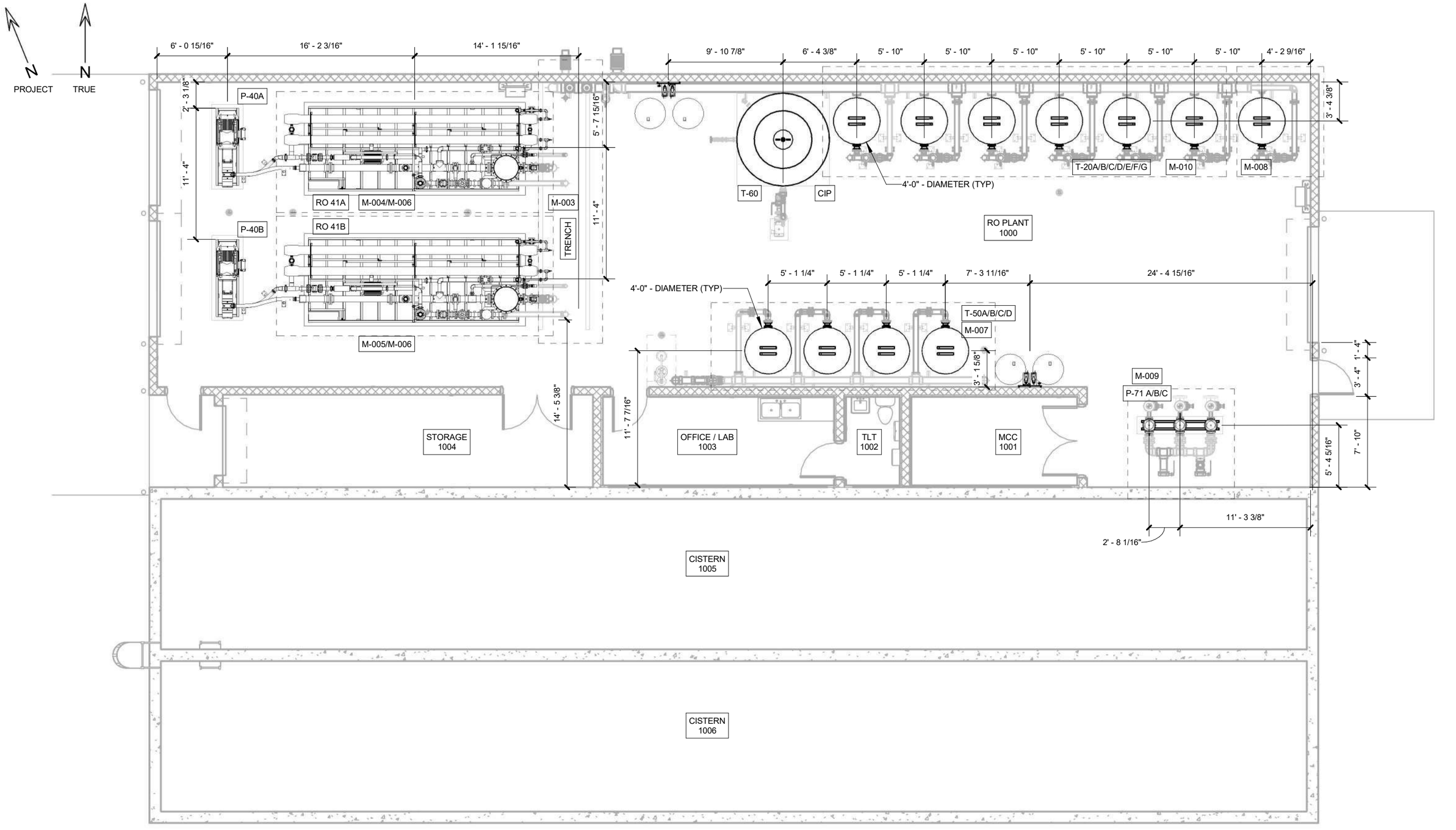
2 x 150K GPD SEAWATER REVERSE OSMOSIS PLANT FROM OPEN SEA INTAKE

MECHANICAL

MECHANICAL	
Sheet Number	Sheet Name
M-0000	SHEET LIST
M-001	MECHANICAL LAYOUT
M-001A	FLOOR DRAIN LAYOUT
M-002	INTAKE BUILDING LAYOUT
M-003	MAIN BUILDING TRENCH PIPING
M-003A	MAIN TRENCH PIPING SECTIONS
M-003B	MAIN TRENCH PIPING SECTIONS
M-004	RO A TRENCH PIPE
M-004 A	RO TRENCH MC & RW PENETRATIONS
M-005	RO B TRENCH PIPE
M-006	RO SYSTEMS
M-006A	RO SYSTEMS ISO
M-006B	RO SYSTEMS SECTIONS
M-006C	RO SYSTEMS SECTIONS
M-007	CALCIUM CARBONATE REACTORS
M-007A	CALCIUM CARBONATE REACTORS ISO
M-007B	CALCIUM CARBONATE REACTORS SECTIONS
M-007C	CALCIUM CARBONATE REACTORS SECTIONS
M-008	CIP SYSTEM
M-008A	CIP SYSTEM CUT SECTIONS
M-009	TRANSFER PUMP SYSTEM - PLAN LAYOUT
M-009A	TRANSFER PUMP SYSTEM CUT SECTIONS
M-009B	TRANSFER PUMP SYSTEM CUT SECTIONS
M-009C	TRANSFER PUMP SYSTEM - ISO VIEW
M-010	MEDIA FITERS SYSTEM
M-010A	MEDIA FILTERS SYSTEM CUT SECTIONS
M-010B	MEDIA FILTERS SYSTEM CUT SECTIONS
M-010C	MEDIA FILTERS SYSTEM CUT SECTIONS
M-010D	MEDIA FILTERS SYSTEM CUT SECTIONS
M-011	INTAKE BUILDING ISO
M-011A	INTAKE BUILDING CUT SECTIONS

TSG TECHNOLOGIES
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

100% DD



1 MECHANICAL LAYOUT
1/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING
0" — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

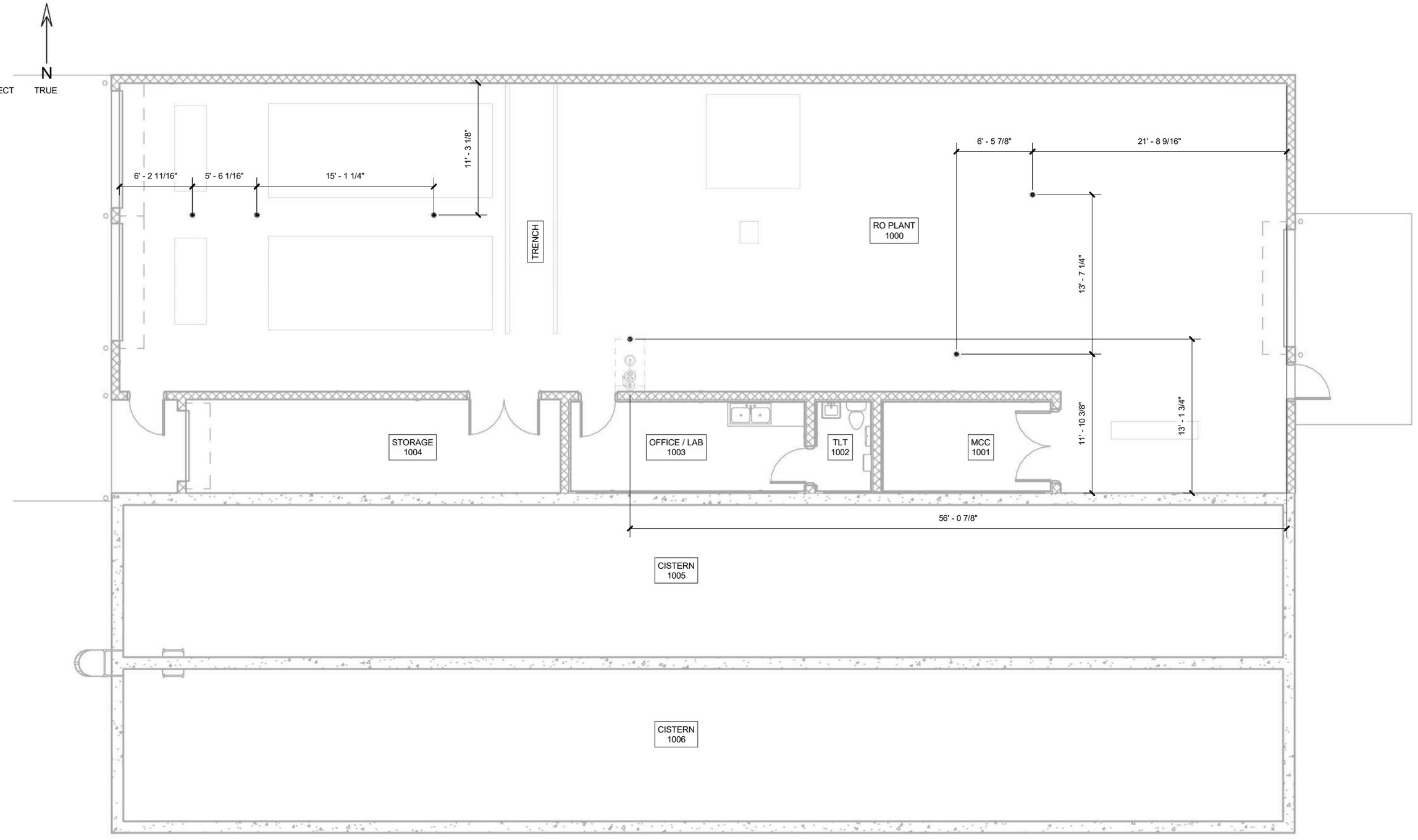
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
MECHANICAL LAYOUT

DWG NO. M-001
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 FLOOR DRAIN LAYOUT
1/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING
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DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

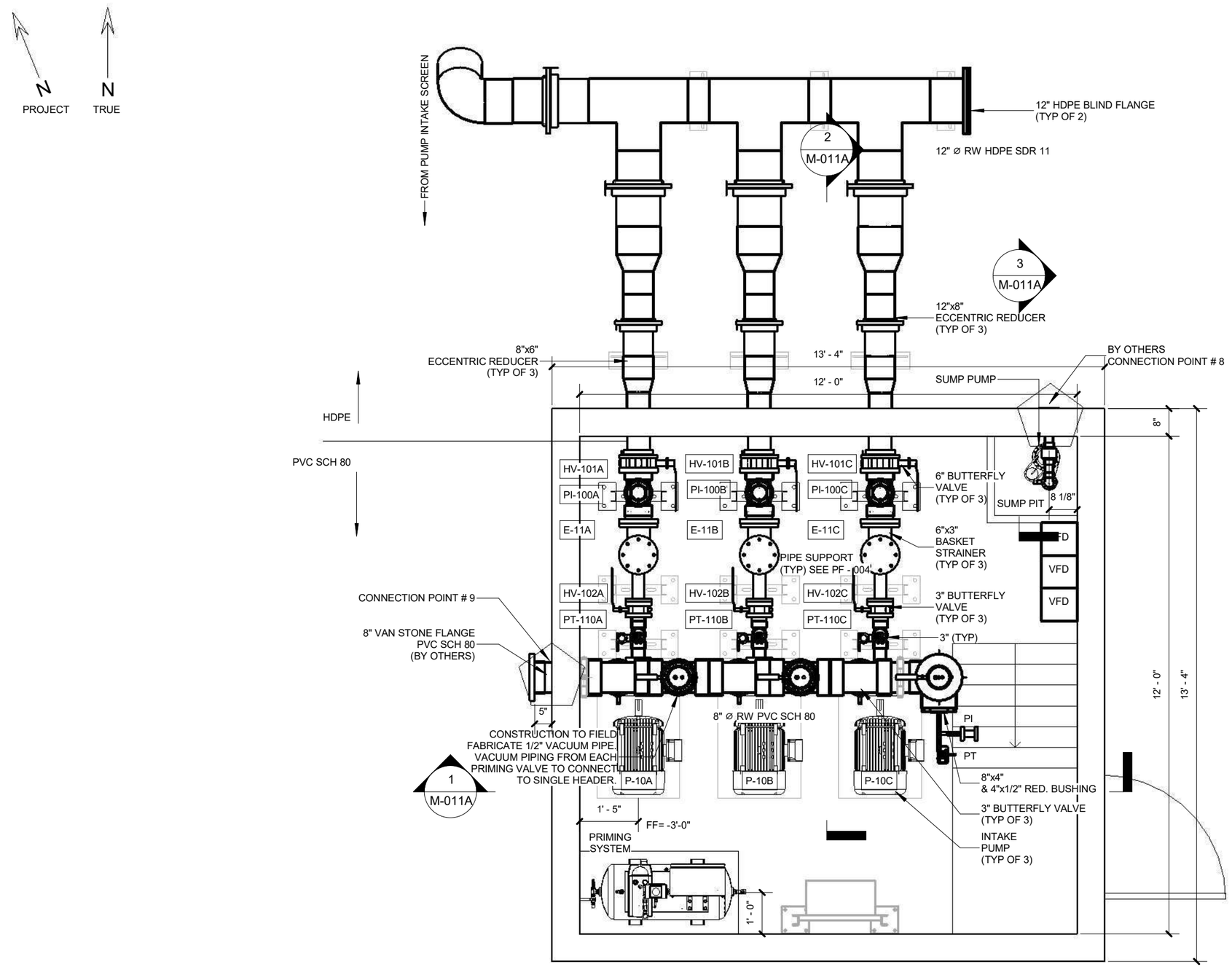
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
FLOOR DRAIN LAYOUT

DWG NO. M-001A
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 INTAKE BUILDING LAYOUT
3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

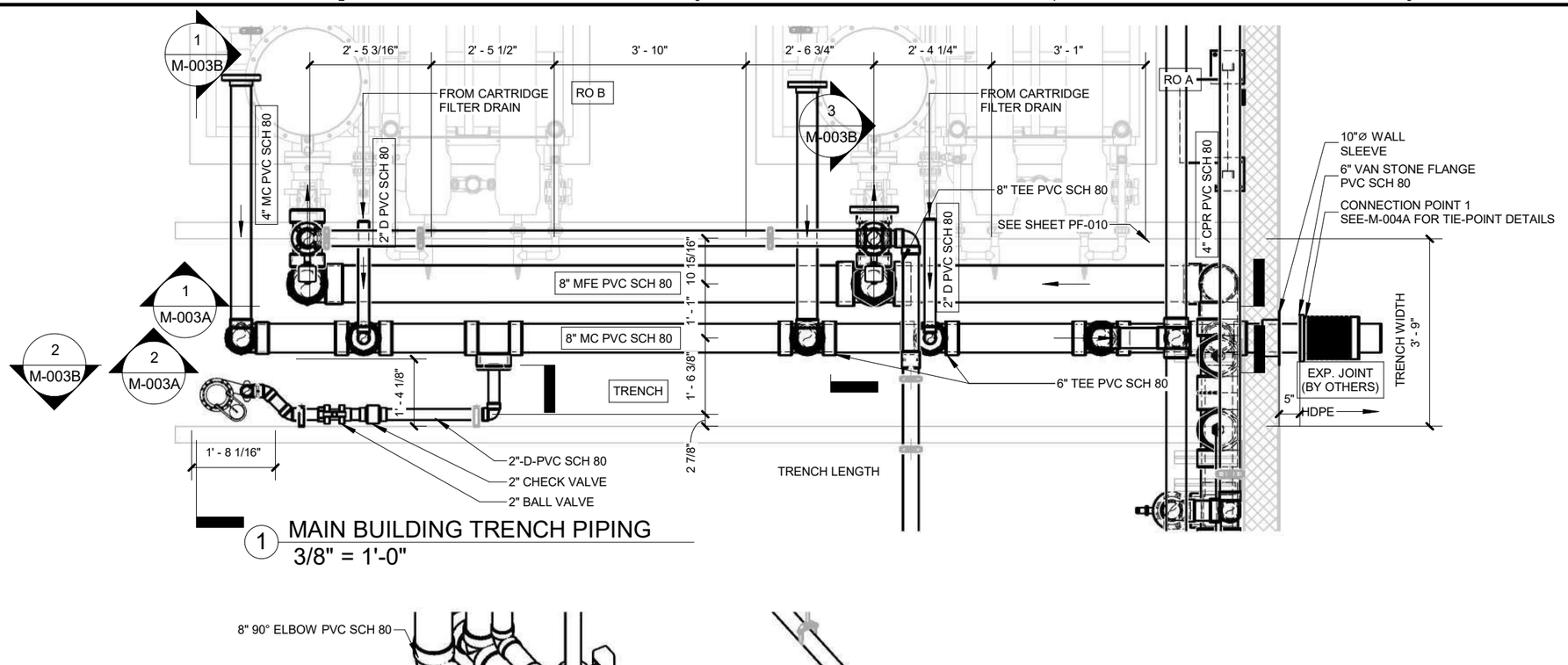
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
INTAKE BUILDING LAYOUT

DWG NO. M-002
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



1 MAIN BUILDING TRENCH PIPING
3/8" = 1'-0"

2 MAIN BUILDING TRENCH PIPING ISO

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

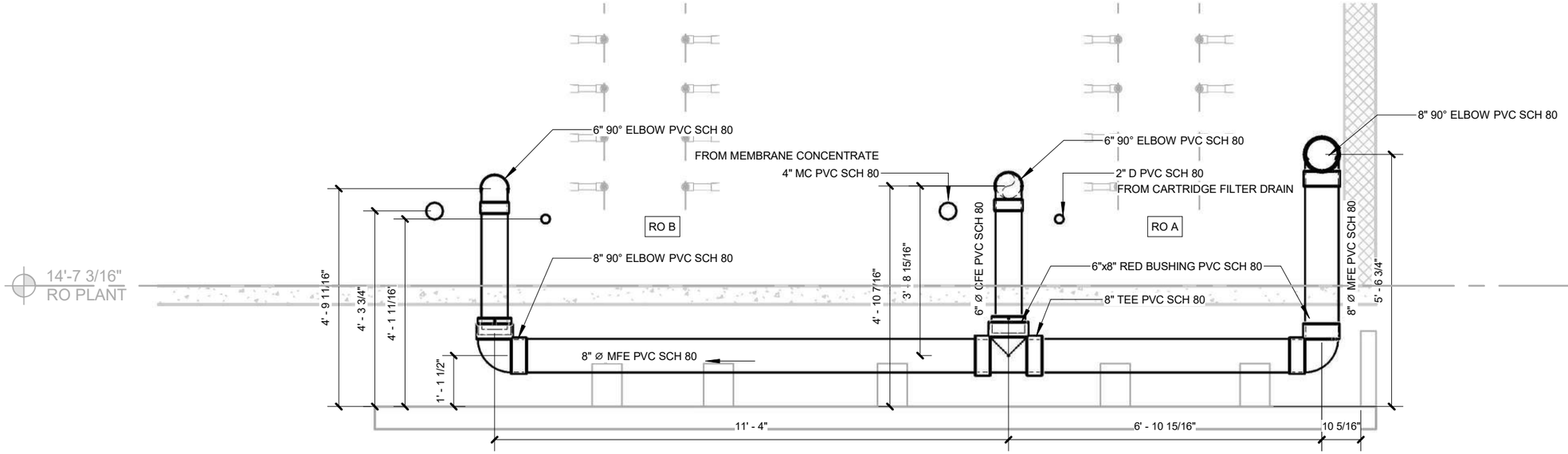
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

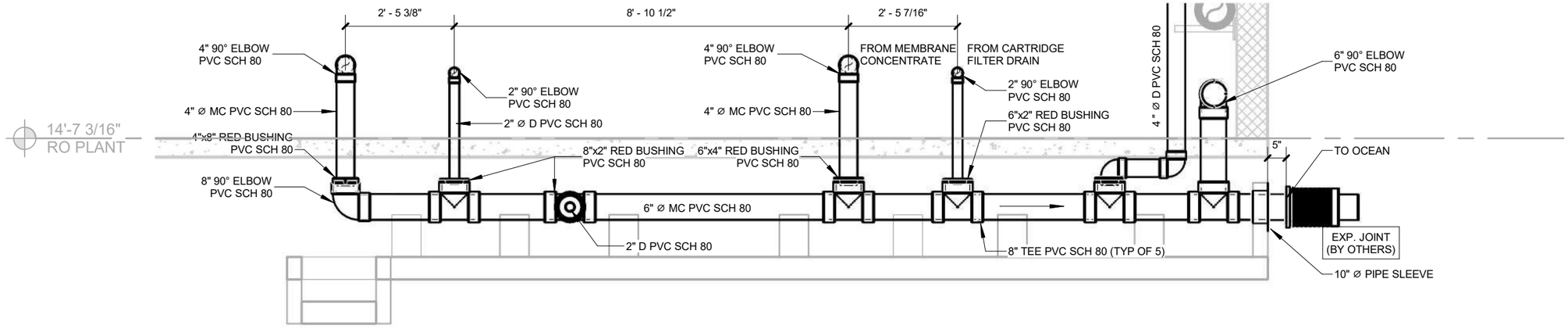
MECHANICAL
MAIN BUILDING TRENCH PIPING

DWG NO. M-003
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 RAW WATER PIPE SECTION 1-1
3/8" = 1'-0"



2 MEMBRANE CONCENTRATE PIPE SECTION 2-2
3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

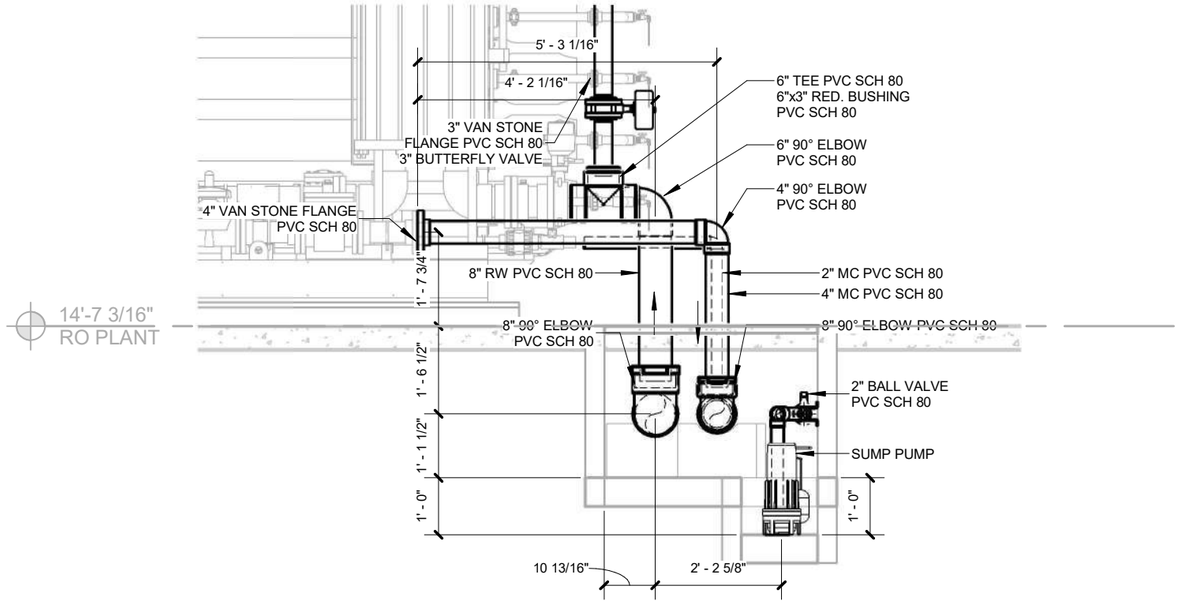
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

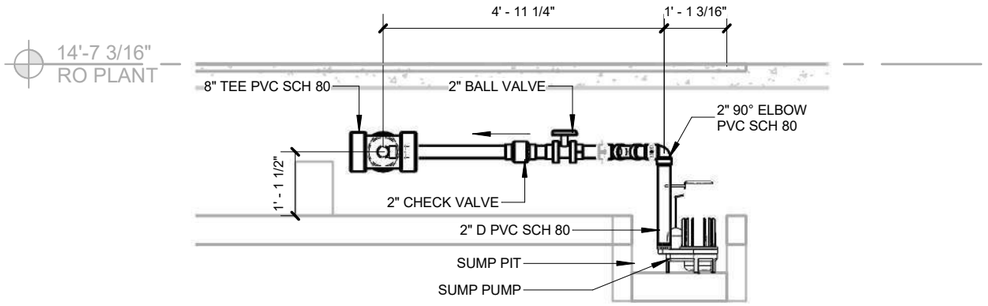
MECHANICAL
MAIN TRENCH PIPING SECTIONS

DWG NO. M-003A
DATE DEC. 2025
PROJ NO. 02-103-106

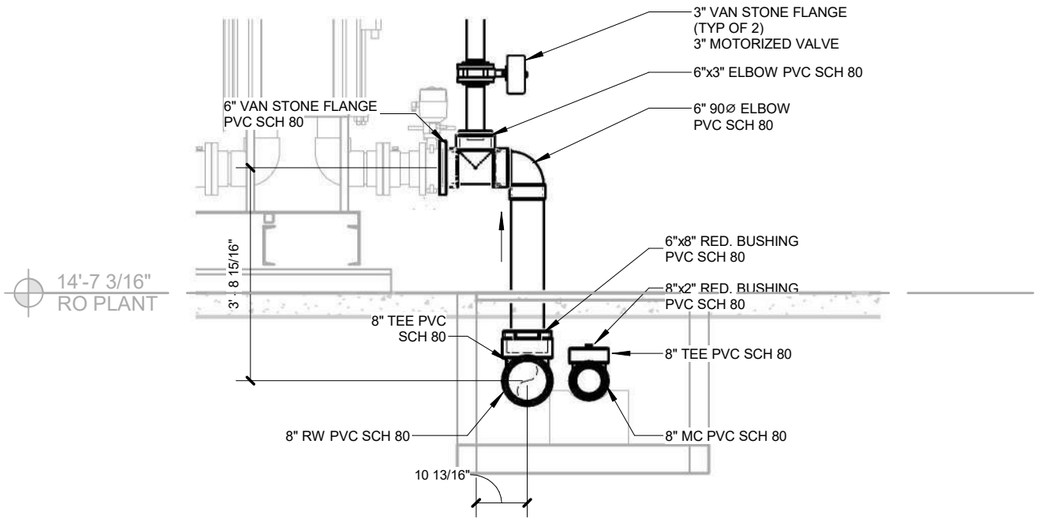
100% DD



1 TRENCH PIPE SECTION 3-3
3/8" = 1'-0"



2 DRAIN PIPE SECTION 4-4
3/8" = 1'-0"



3 RAW WATER PIPE SECTION
3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

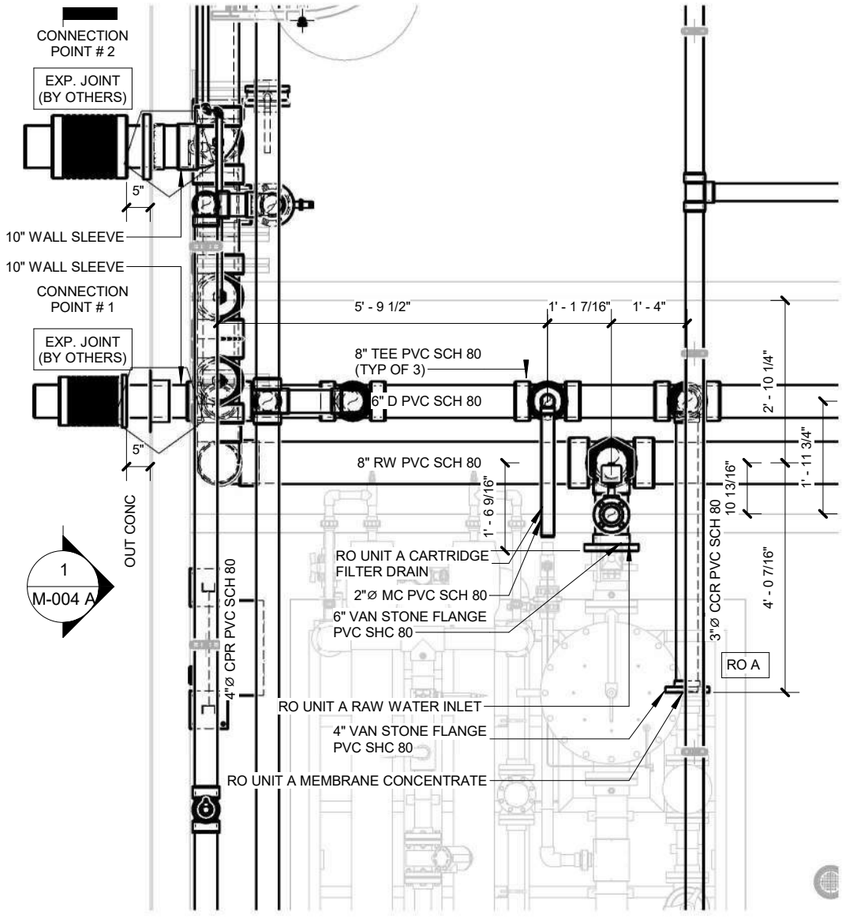
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

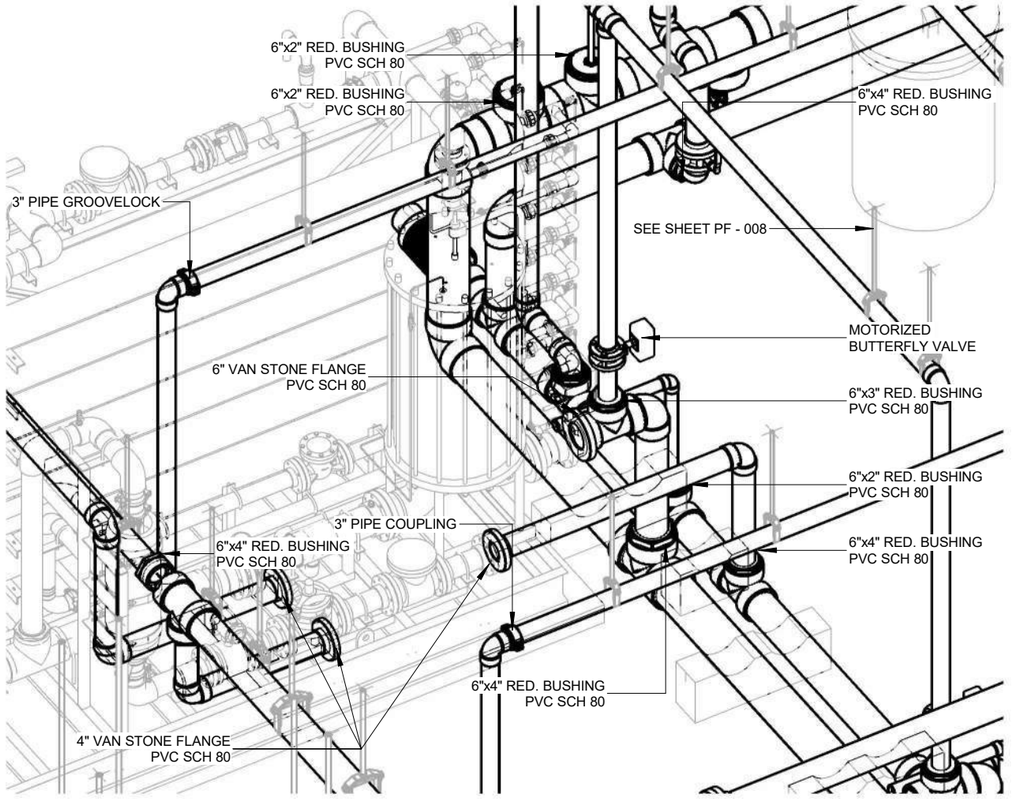
MECHANICAL
MAIN TRENCH PIPING SECTIONS

DWG NO. M-003B
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 RO A TRENCH PIPE
3/8" = 1'-0"



2 RO A TRENCH PIPE ISO

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
RO A TRENCH PIPE

DWG NO. M-004
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 RO TRENCH MC & RW PENETRATIONS - ELEVATION VIEW
3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

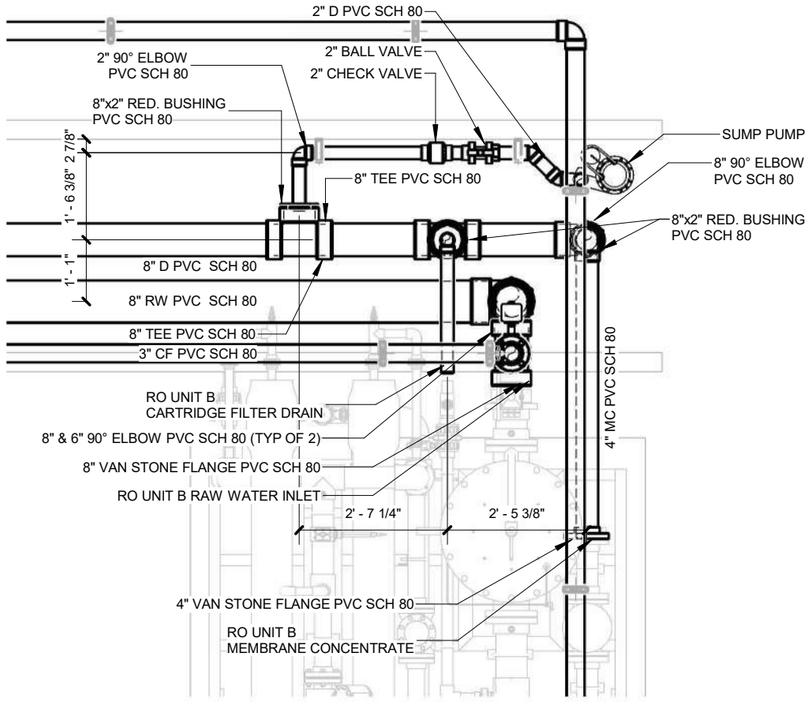
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

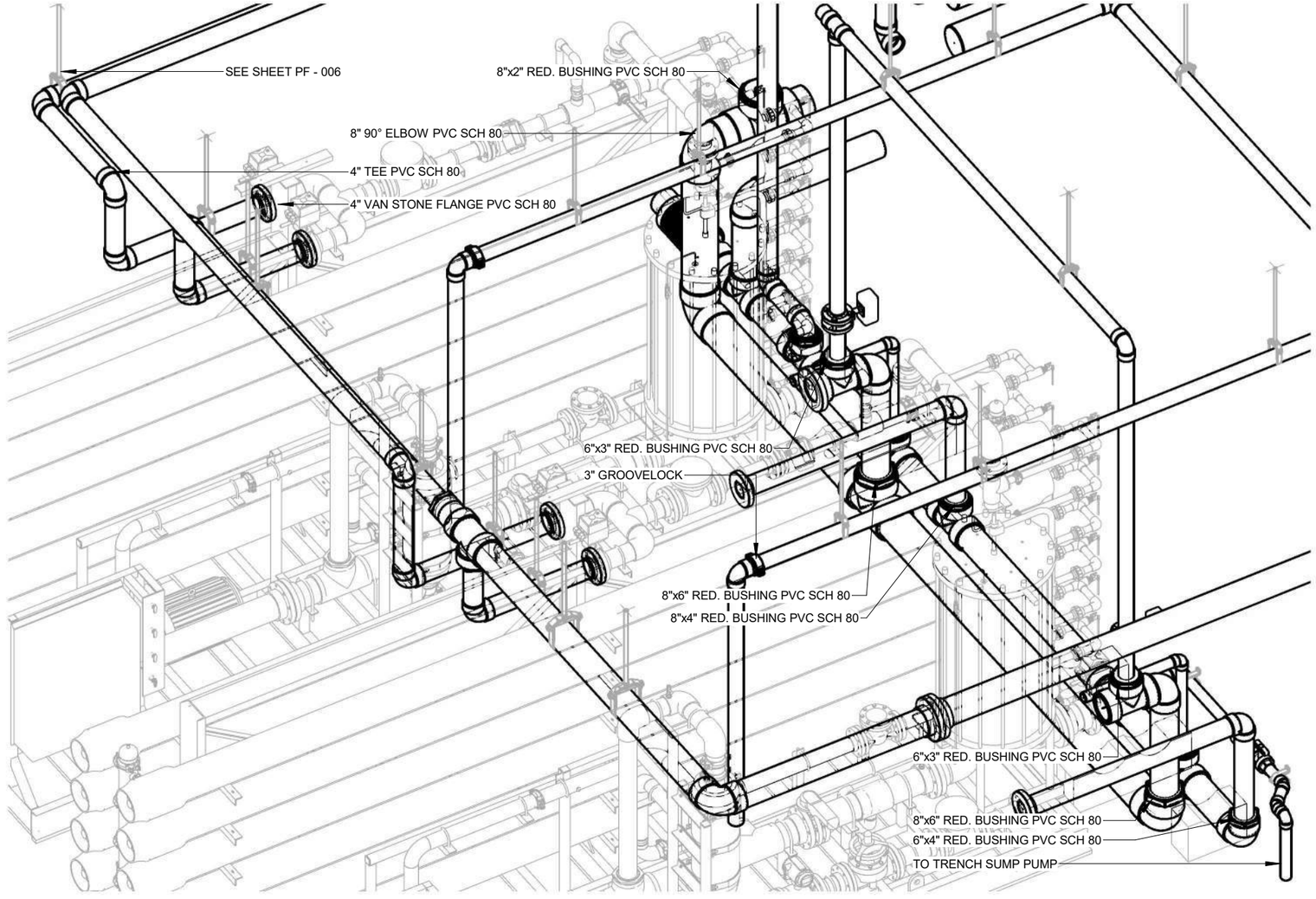
MECHANICAL
RO TRENCH MC & RW PENETRATIONS

DWG NO. M-004 A
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



2 RO B TRENCH PIPE
3/8" = 1'-0"



1 RO B TRENCH PIPE ISO

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

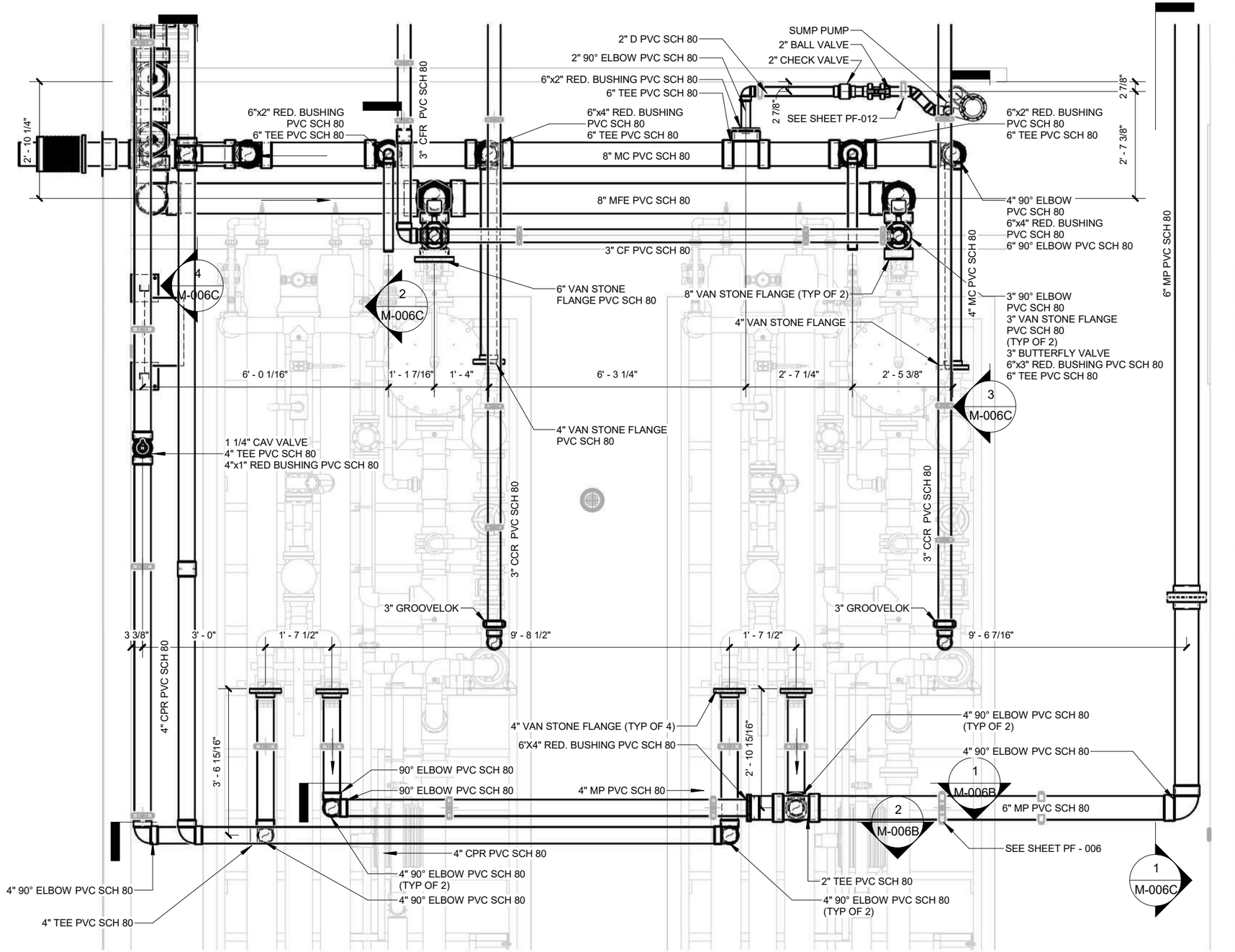
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
RO B TRENCH PIPE

DWG NO. M-005
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 RO SYSTEMS
3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

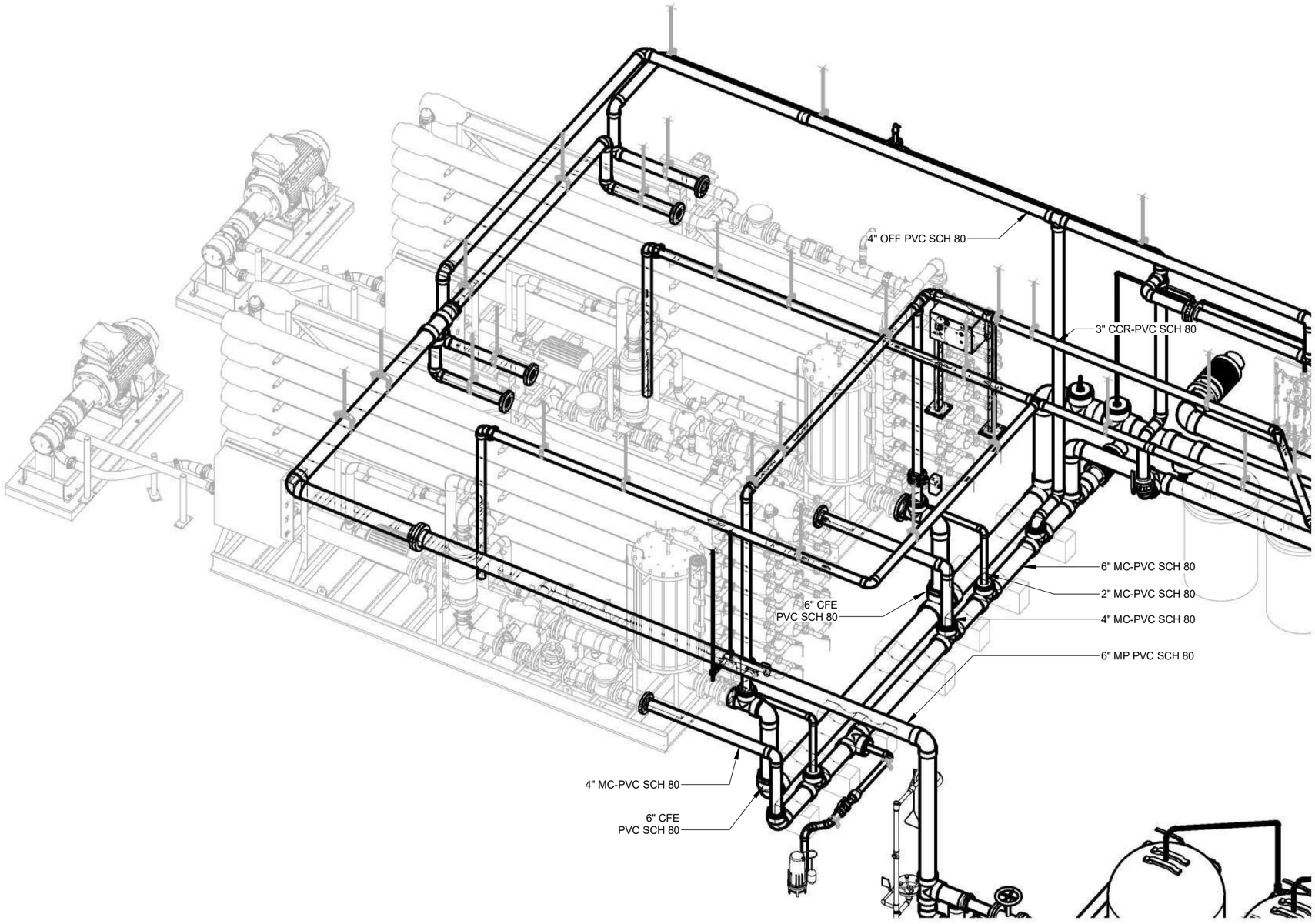
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
RO SYSTEMS

DWG NO. M-006
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 RO SYSTEMS ISO

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

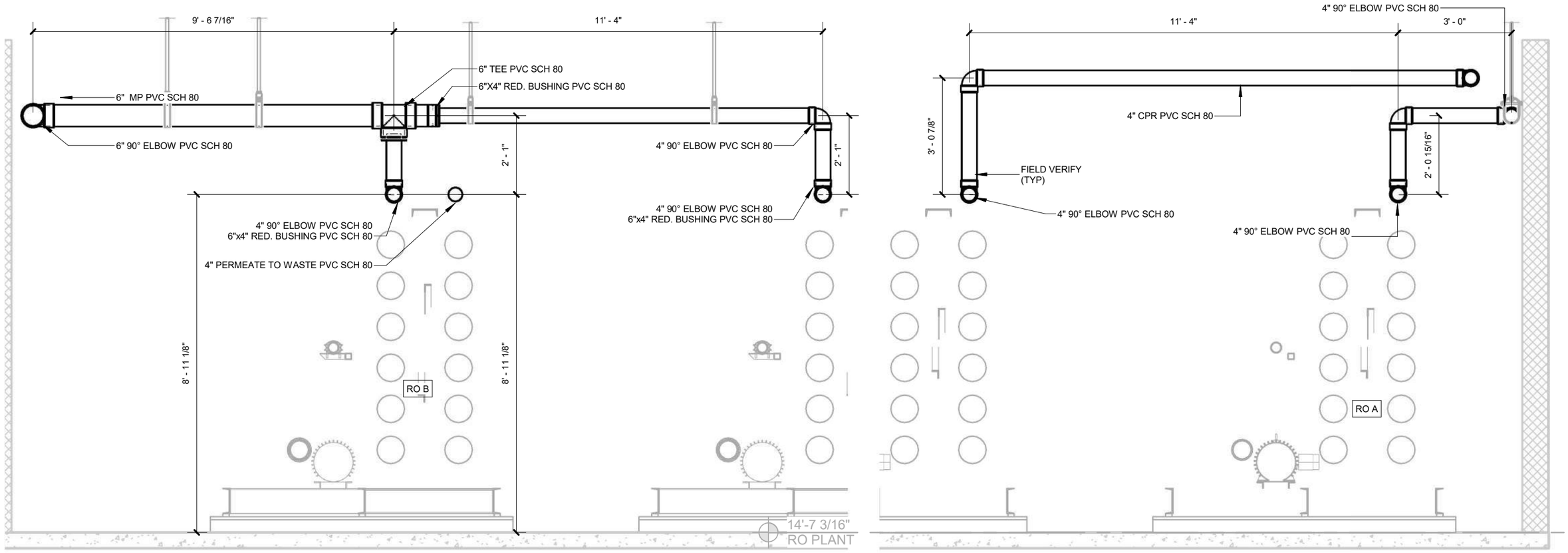
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
RO SYSTEMS ISO

DWG NO.	M-006A
DATE	DEC. 2025
PROJ NO.	02-103-106

100% DD



1 MEMBRANE PERMEATE SECTION 1-1
3/8" = 1'-0"

2 MEMBRANE PERMEATE SECTION 2-2
3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

WESTIN ST. JOHN
ST. JOHN, USVI

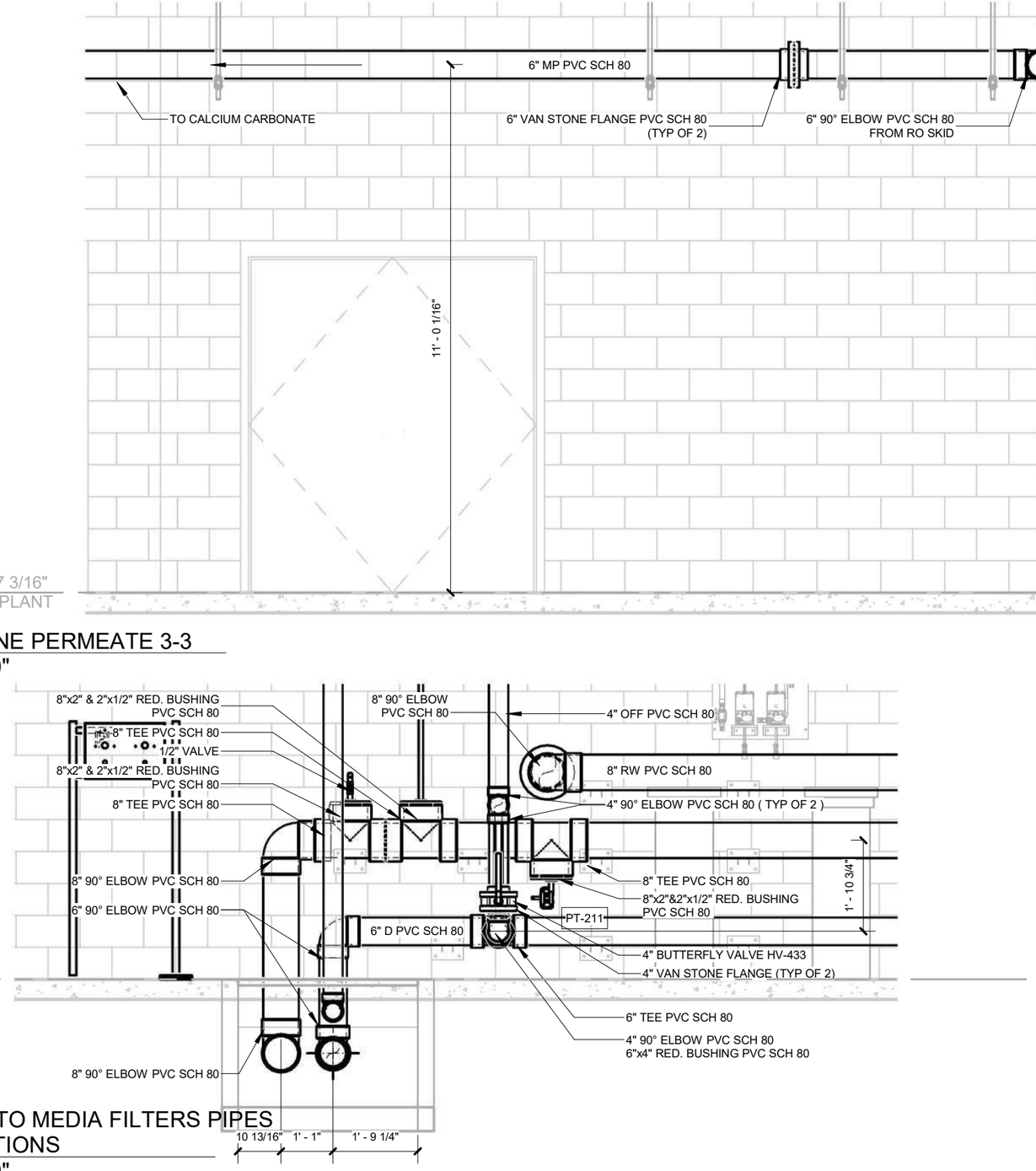
2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
RO SYSTEMS SECTIONS

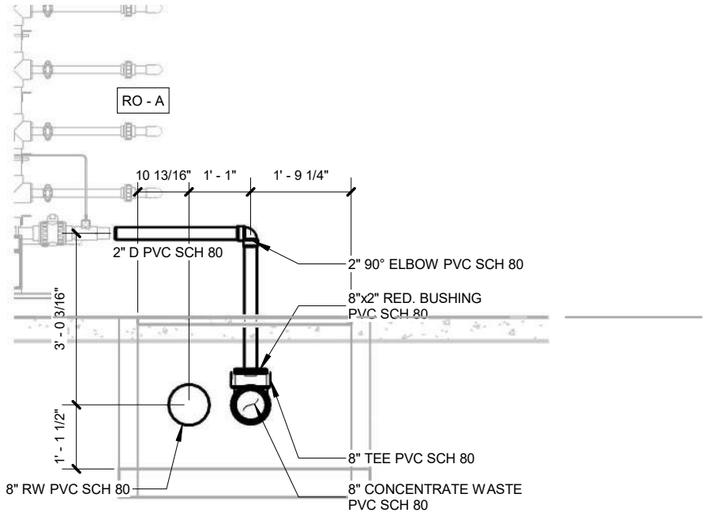
DWG NO. M-006B
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD

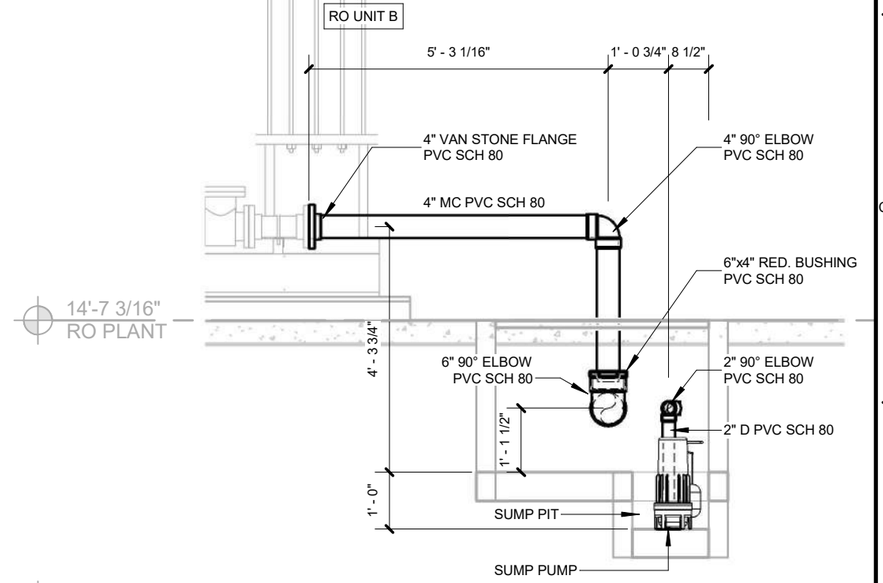
1 MEMBRANE PERMEATE 3-3
3/8" = 1'-0"



4 TRENCH TO MEDIA FILTERS PIPES CONNECTIONS
3/8" = 1'-0"



2 CARTRIDGE FILTER DRAIN LINE SECTION 4-4
3/8" = 1'-0"



3 MEMBRANE CONCENTRATE SECTION 5-5
3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

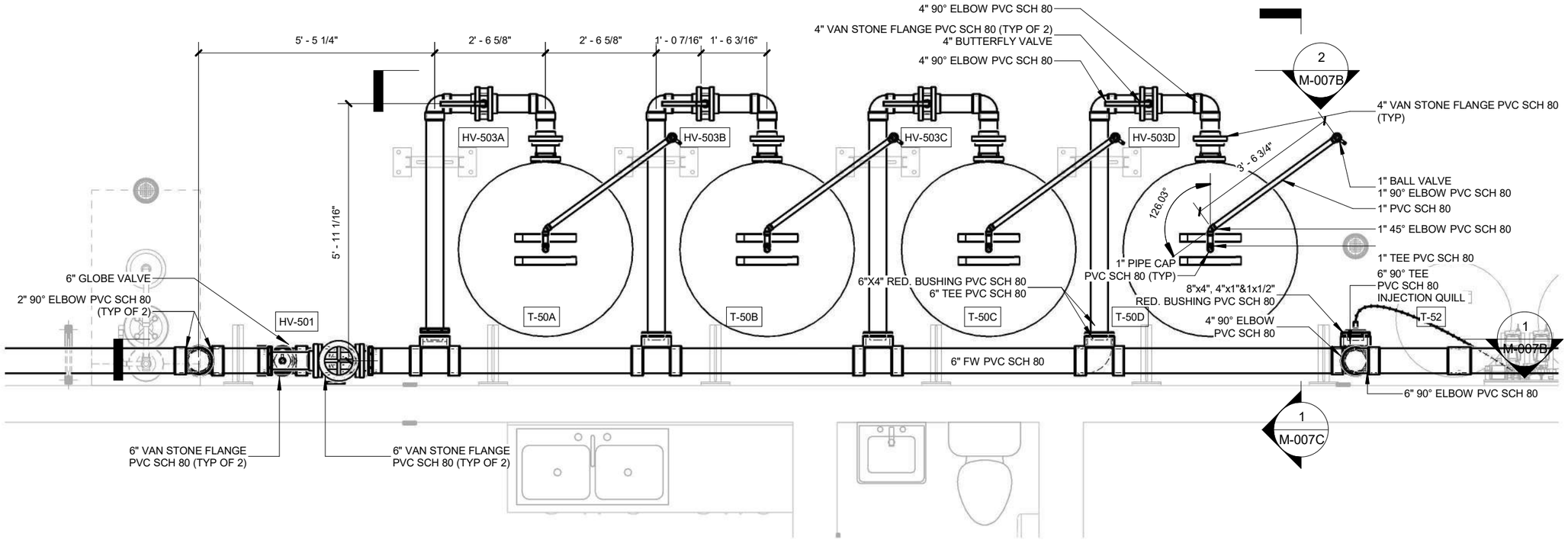
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
RO SYSTEMS SECTIONS

DWG NO. M-006C
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 CALCIUM CARBONATE REACTORS
3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

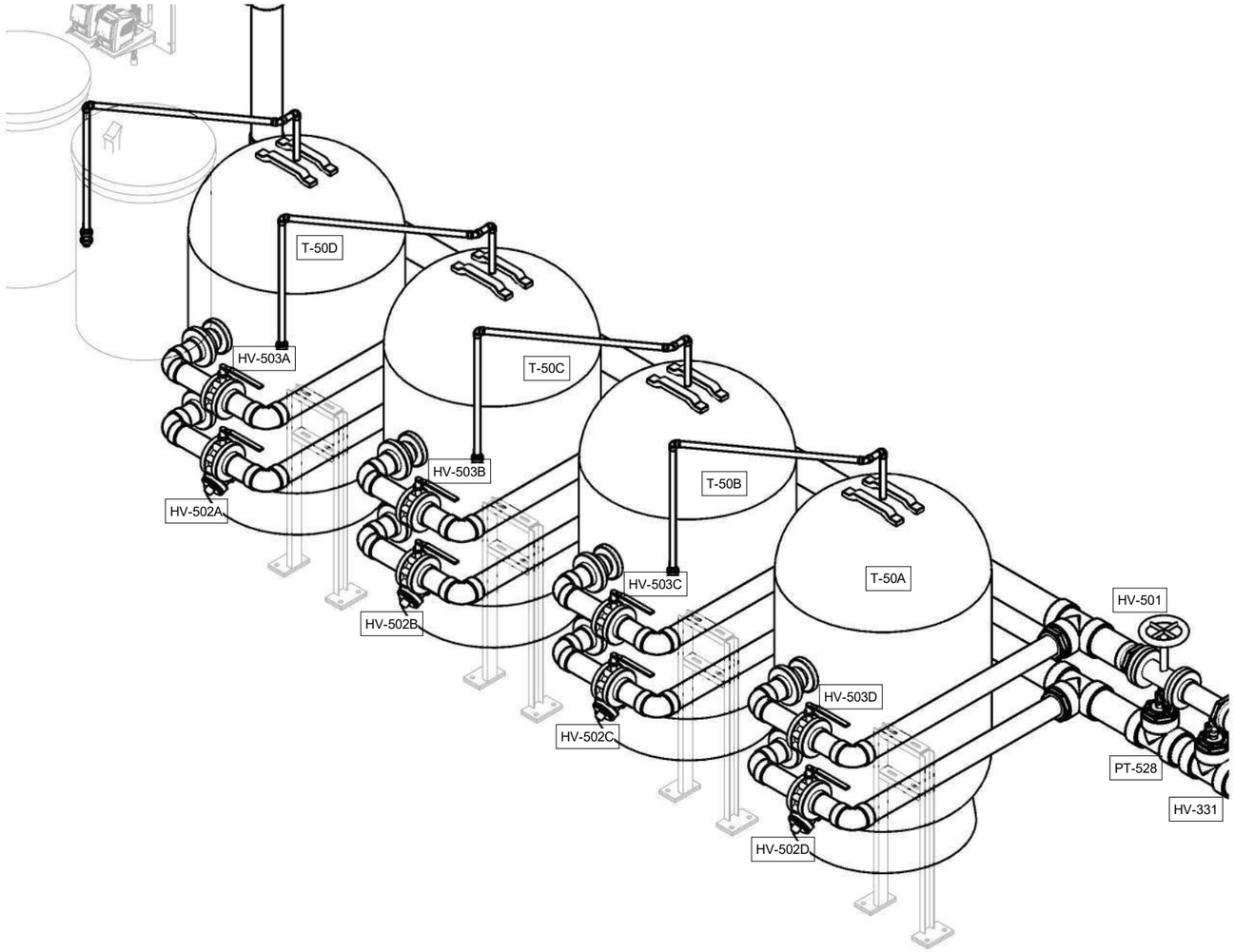
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
CALCIUM CARBONATE REACTORS

DWG NO. M-007
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 CALCIUM CARBONATE REACTORS ISO

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-604A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

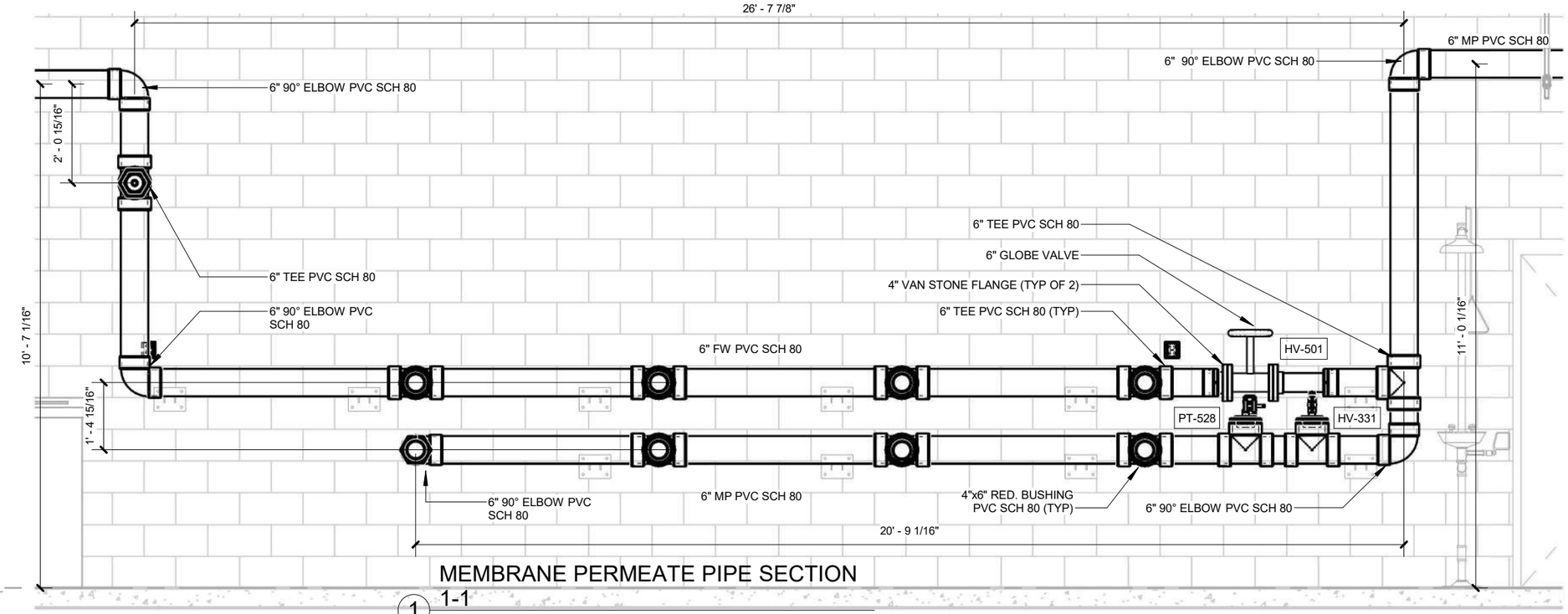
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

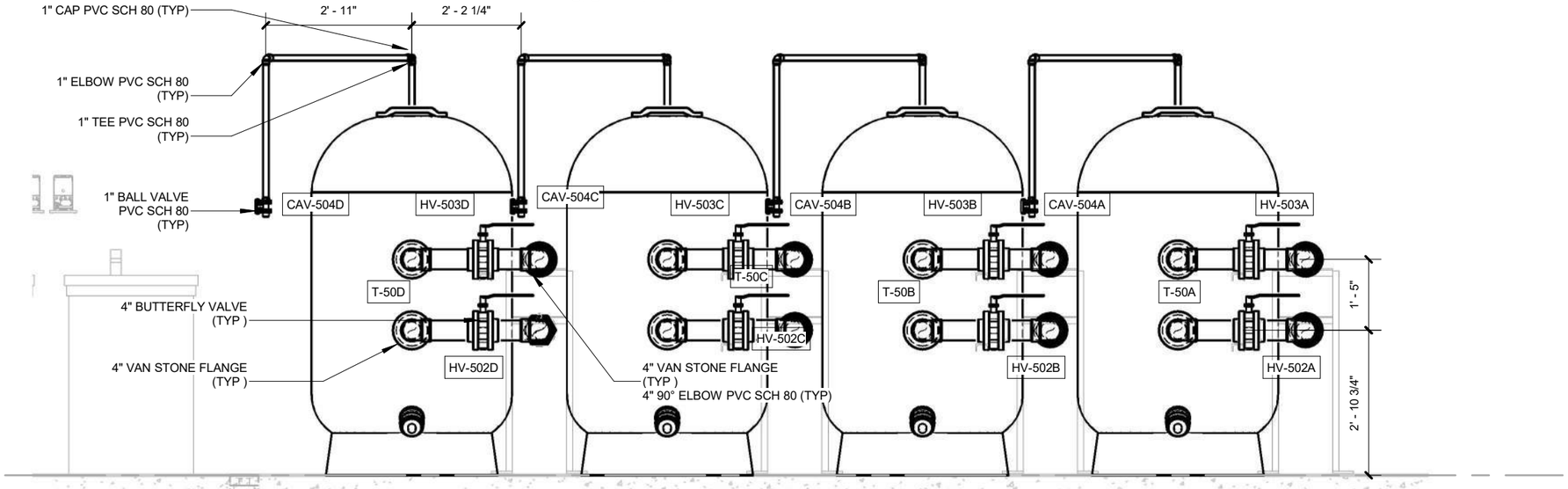
MECHANICAL
CALCIUM CARBONATE REACTORS ISO

DWG NO.	M-007A
DATE	DEC. 2025
PROJ NO.	02-103-106

100% DD



MEMBRANE PERMEATE PIPE SECTION
1-1
1 3/8" = 1'-0"



MEMBRANE PERMEATE & FINISH
WATER SECTION 2-2
2 3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

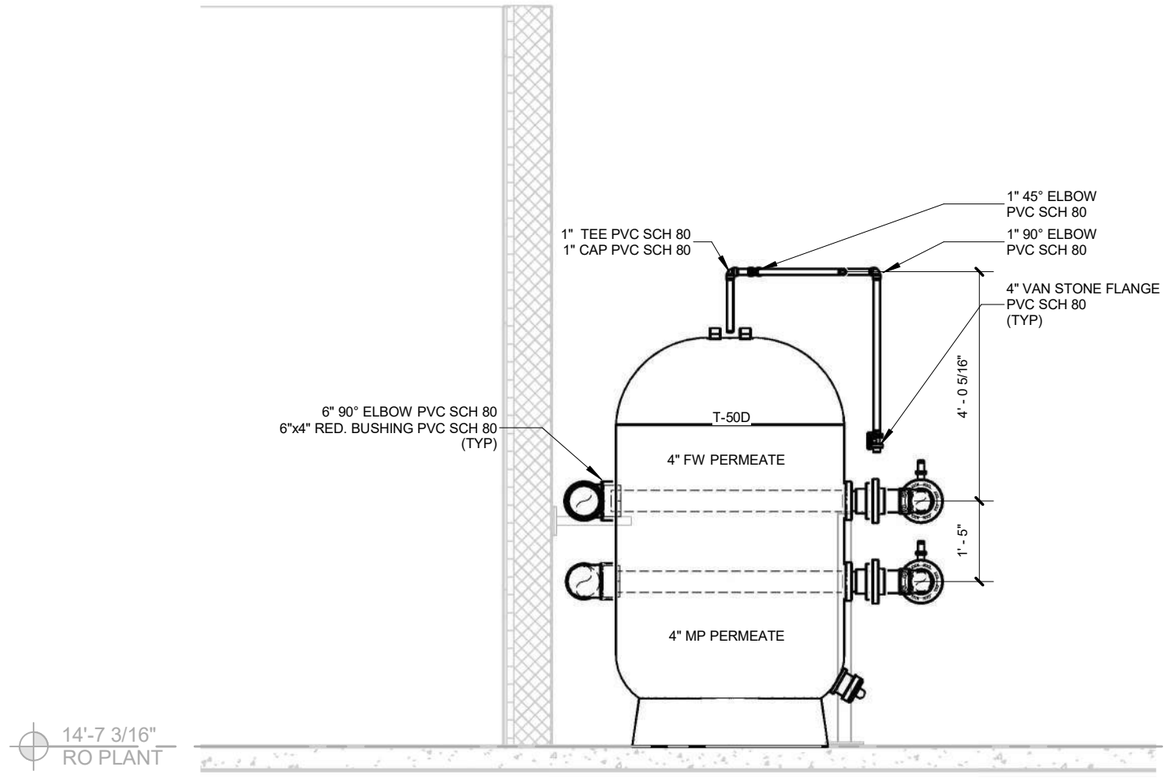
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
CALCIUM CARBONATE REACTORS SECTIONS

DWG NO. M-007B
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 CALCIUM CARBONATE TANKS
3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

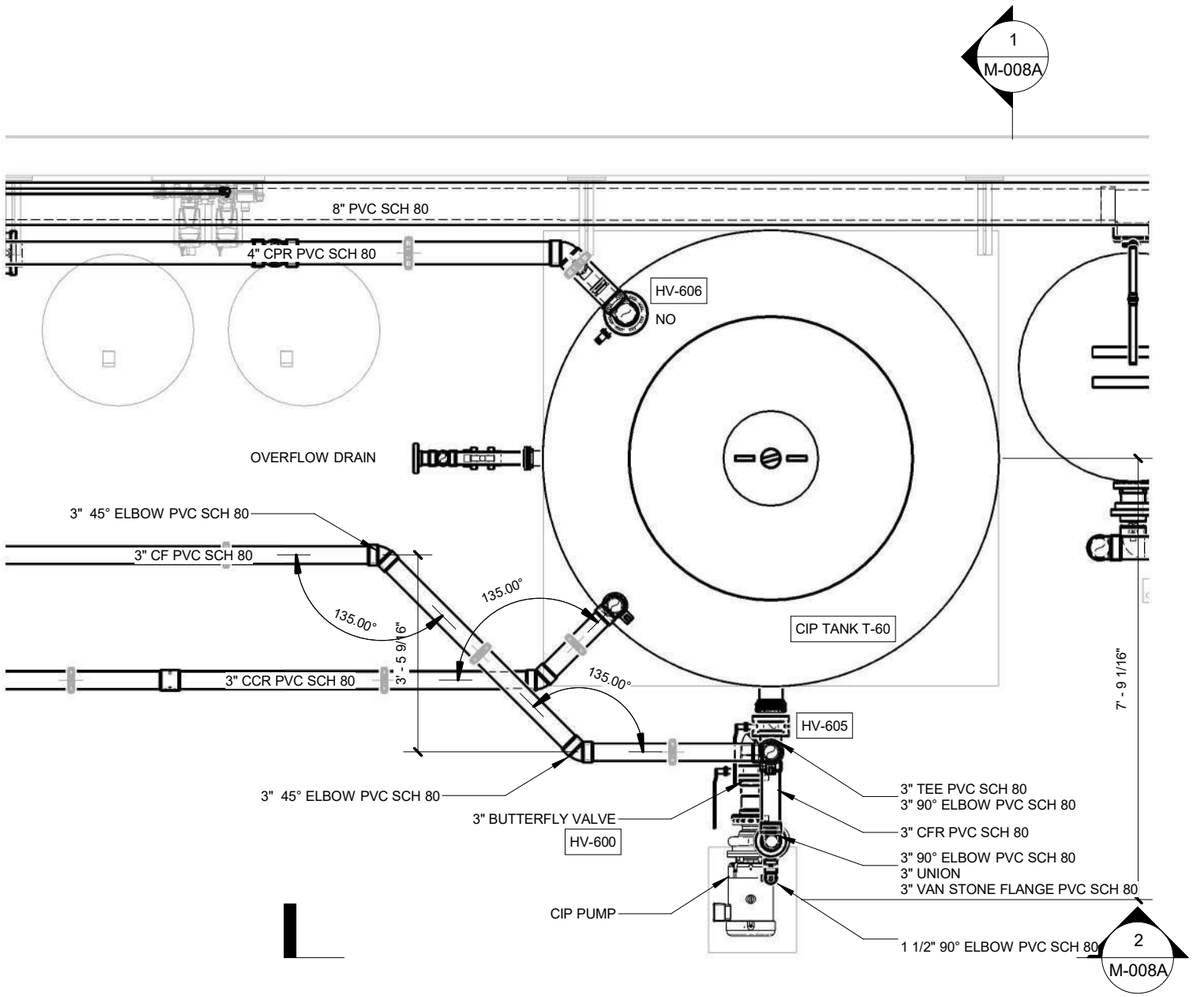
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

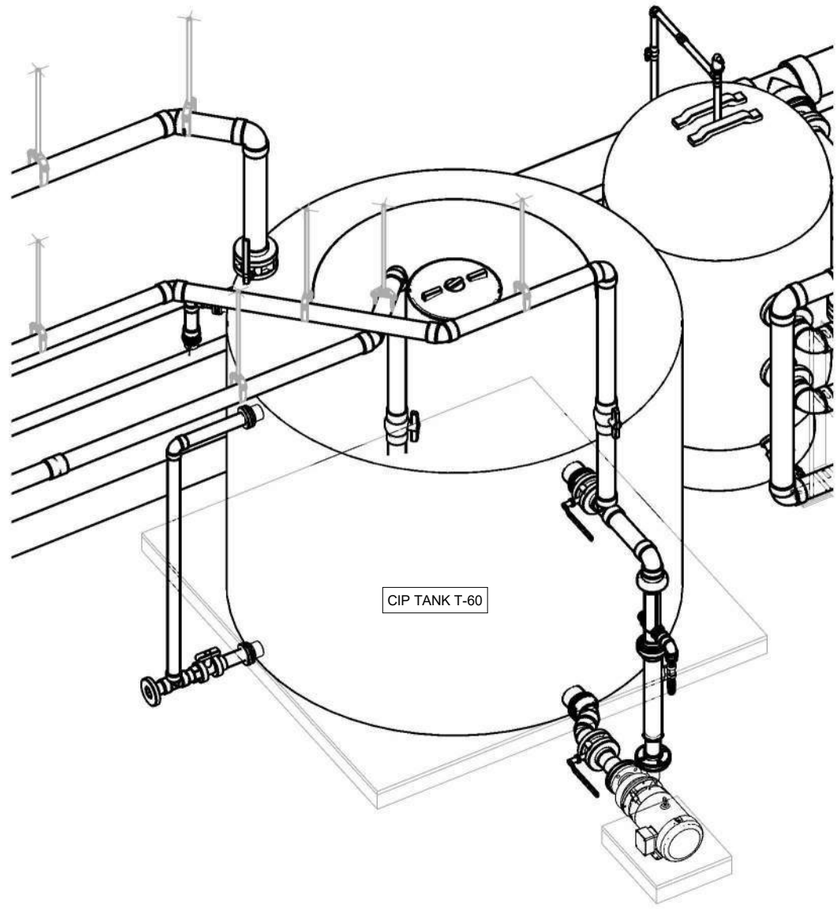
MECHANICAL
CALCIUM CARBONATE REACTORS SECTIONS

DWG NO. M-007C
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 CIP SYSTEM
3/8" = 1'-0"



2 CIP SYSTEM ISO

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

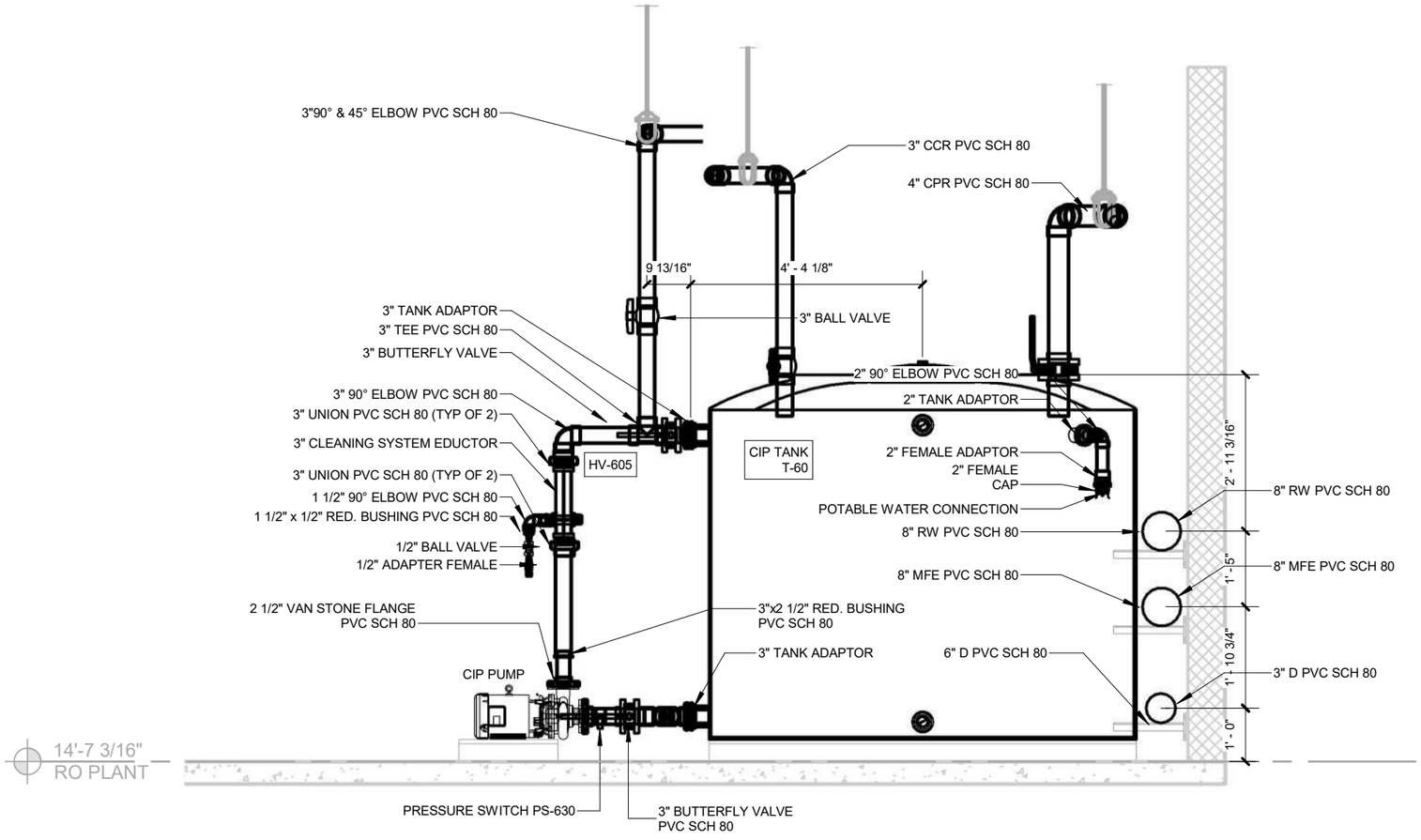
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

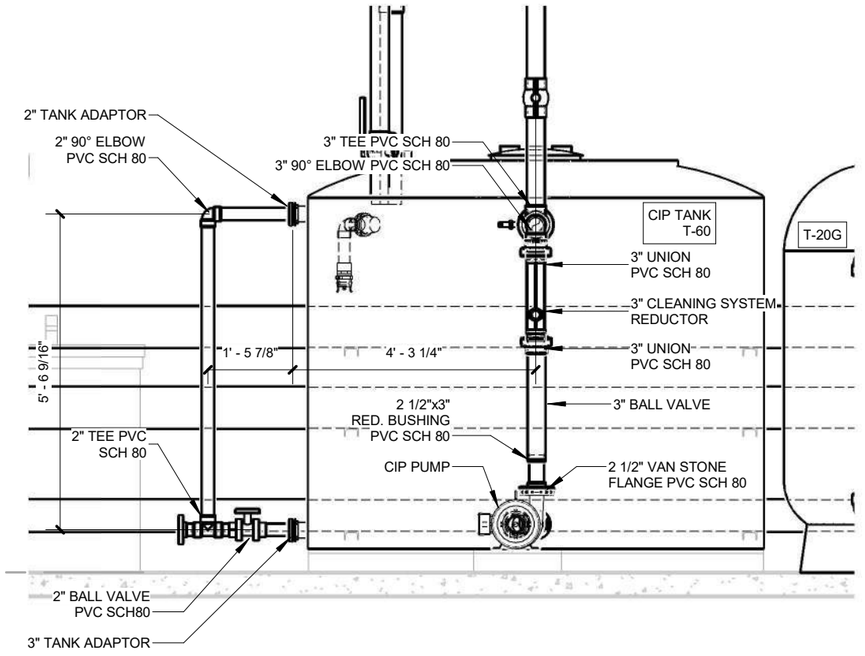
MECHANICAL
CIP SYSTEM

DWG NO. M-008
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 CIP SYSTEM CUT SECTION 1
3/8" = 1'-0"



2 CIP SYSTEM CUT SECTION 2
3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

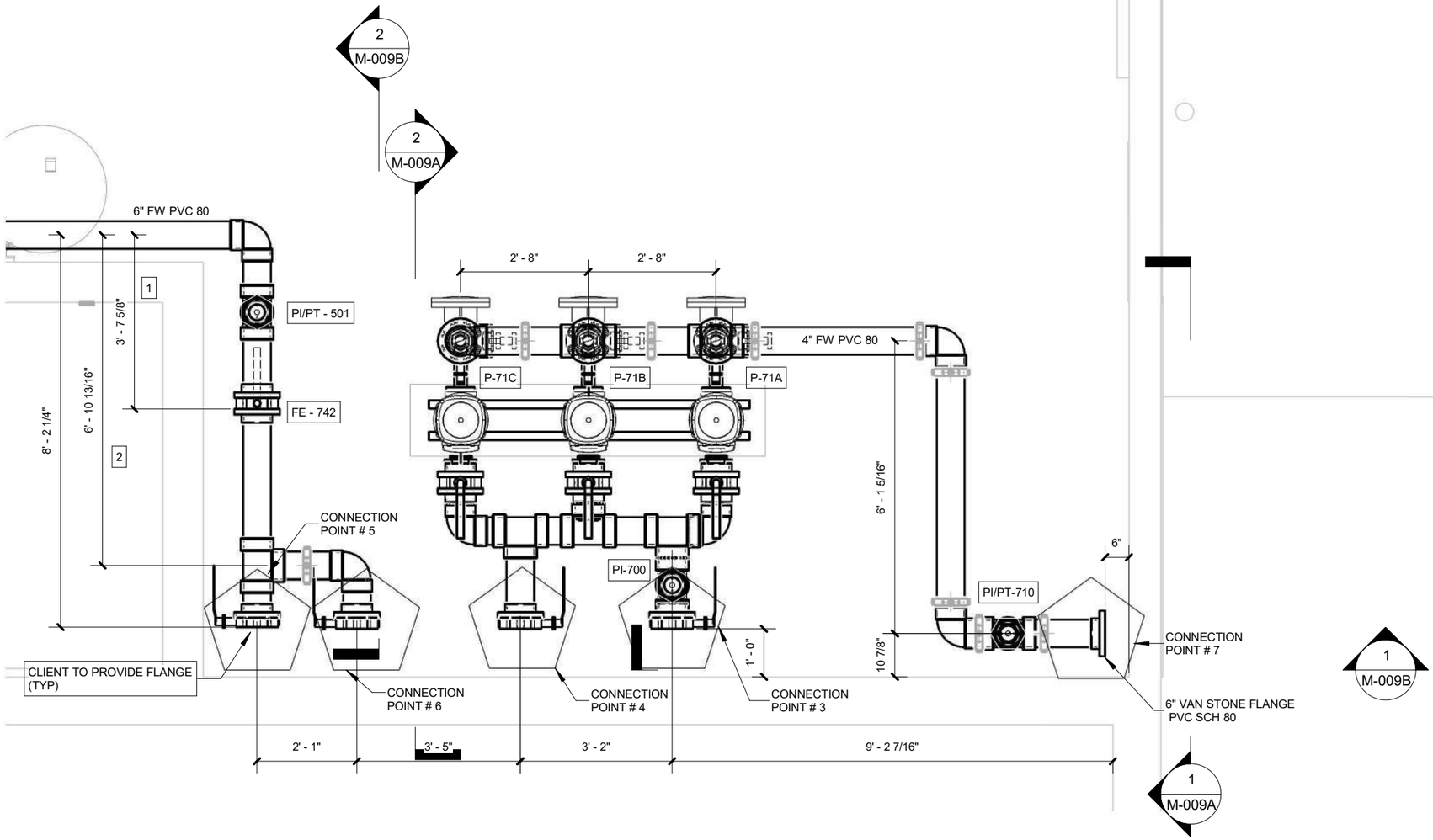
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
CIP SYSTEM CUT SECTIONS

DWG NO. M-008A
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 TRANSFER PUMP SYSTEM
3/8" = 1'-0"

GENERAL NOTES:
1. 30" MINIMUM
2. 12" MINIMUM

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

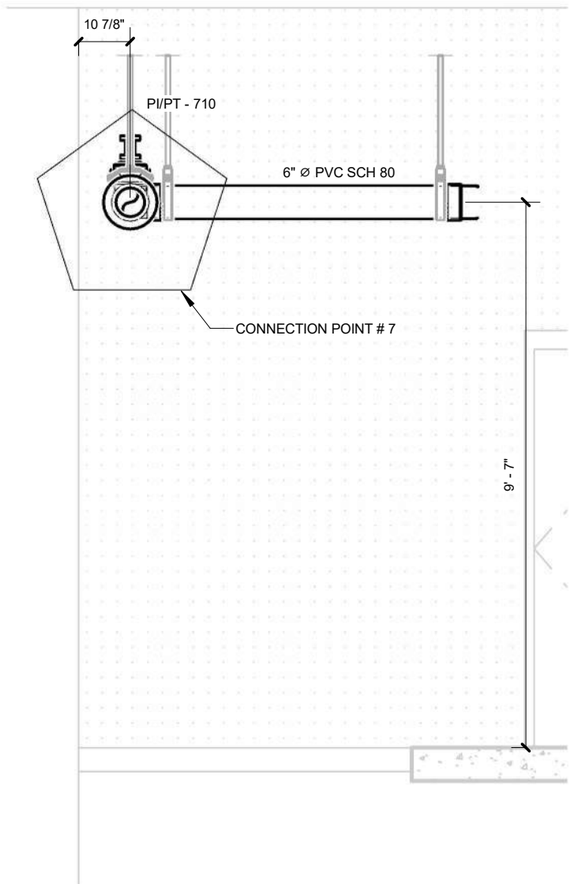
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
TRANSFER PUMP SYSTEM - PLAN LAYOUT

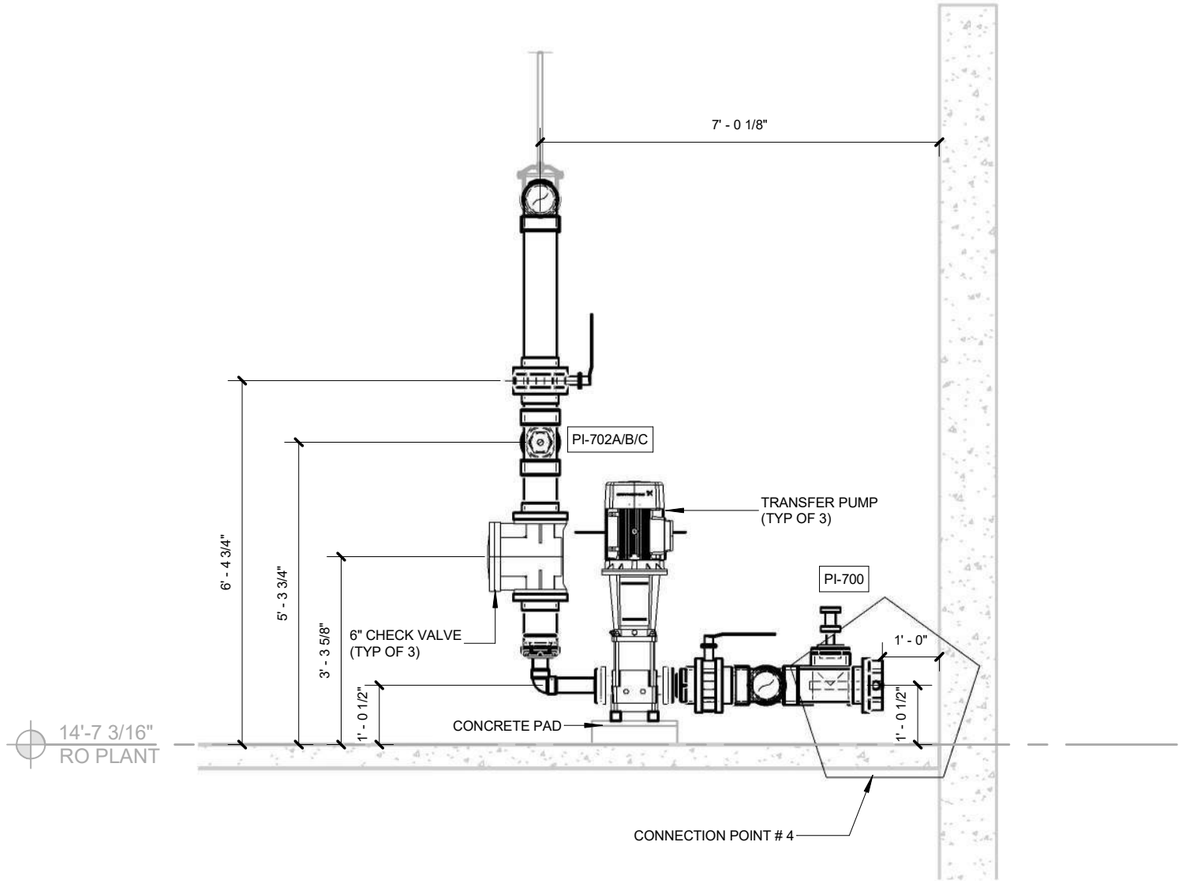
DWG NO. M-009
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



TRUNSFER PUMPS SYSTEM CUT SECTION 1

3/8" = 1'-0"



TRUNSFER PUMPS SYSTEM CUT SECTION 2

3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

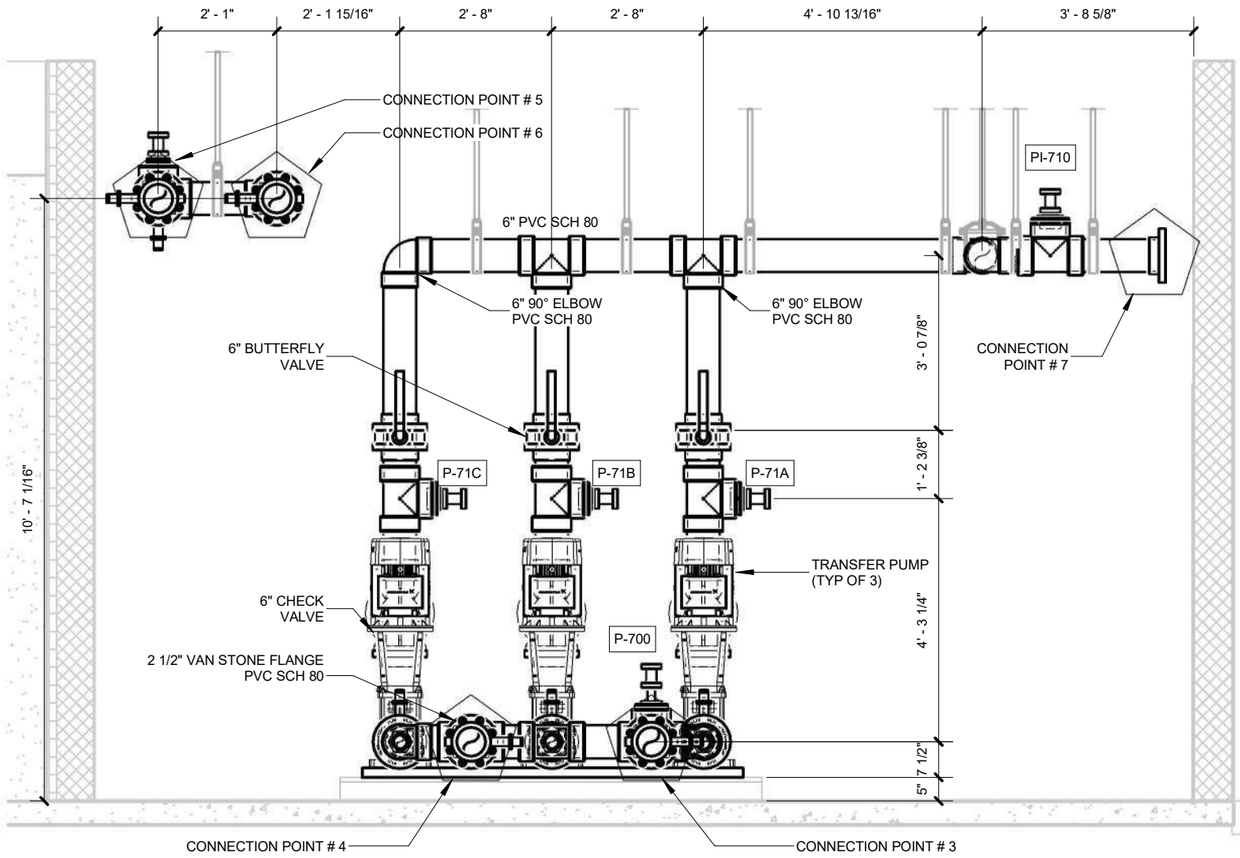
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
TRANSFER PUMP SYSTEM CUT SECTIONS

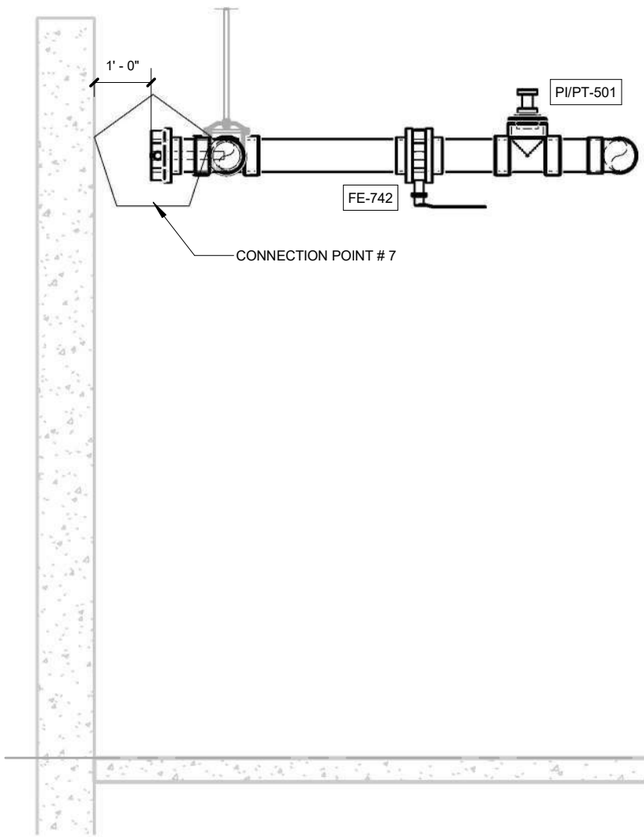
DWG NO.	M-009A
DATE	DEC. 2025
PROJ NO.	02-103-106

100% DD



TRANSFER PUMPS SYSTEM CUT SECTION 1

1 — 3/8" = 1'-0"



TRANSFER PUMPS SYSTEM CUT SECTION 2

2 — 3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

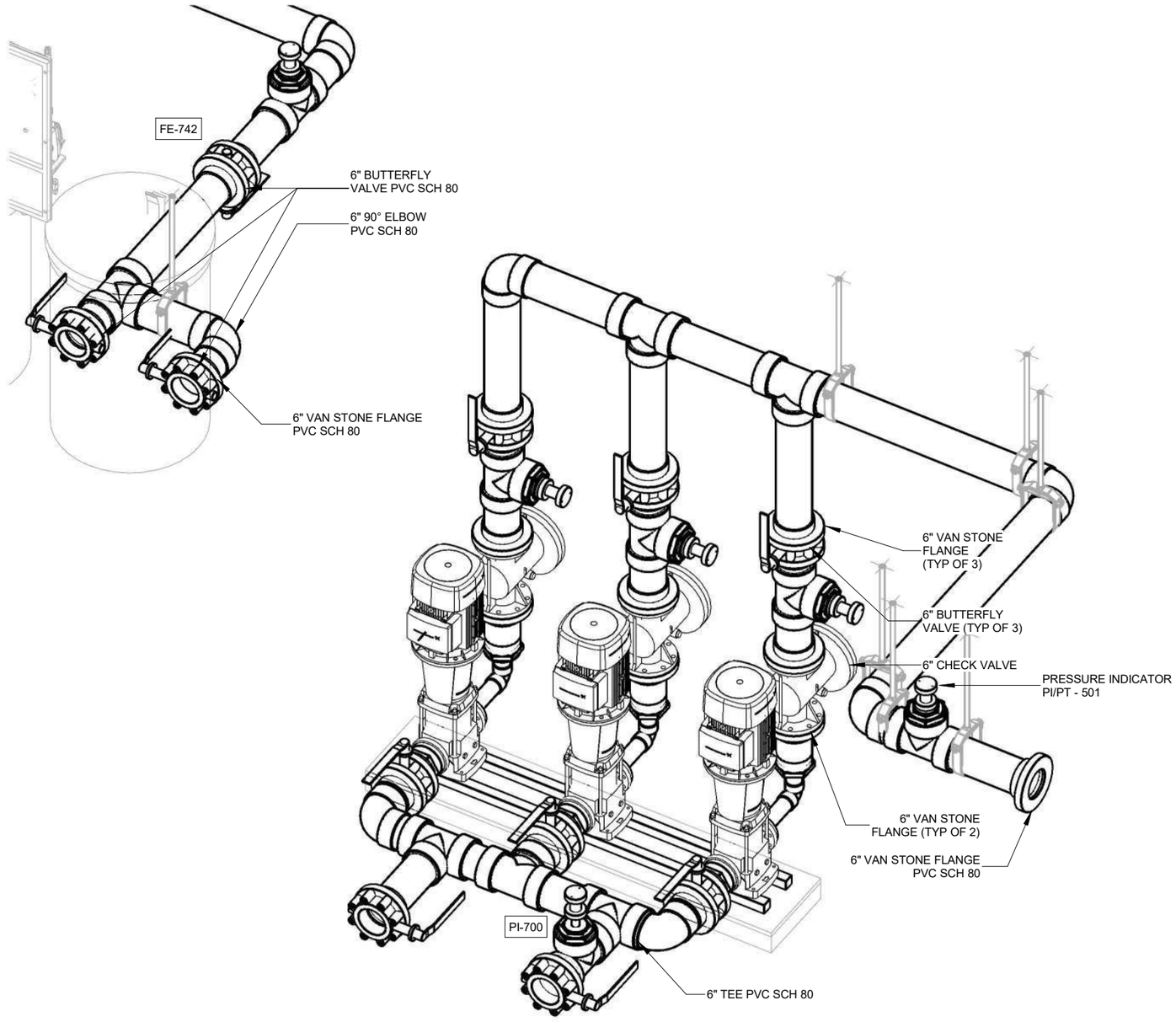
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
TRANSFER PUMP SYSTEM CUT SECTIONS

DWG NO. M-009B
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



2 TRANSFER PUMP SYSTEM ISO VIEW

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

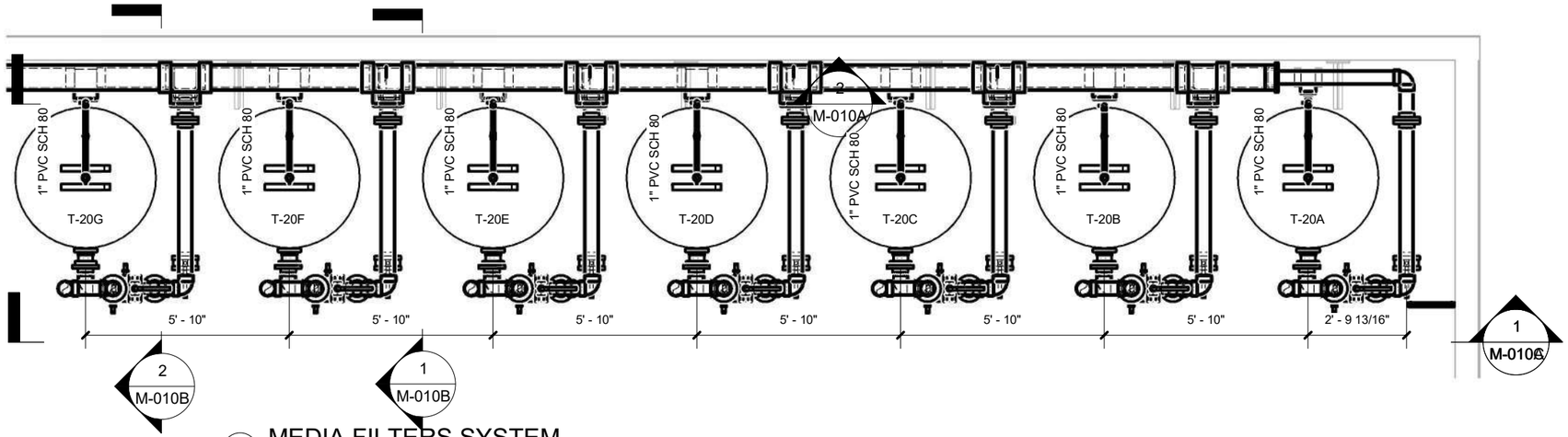
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

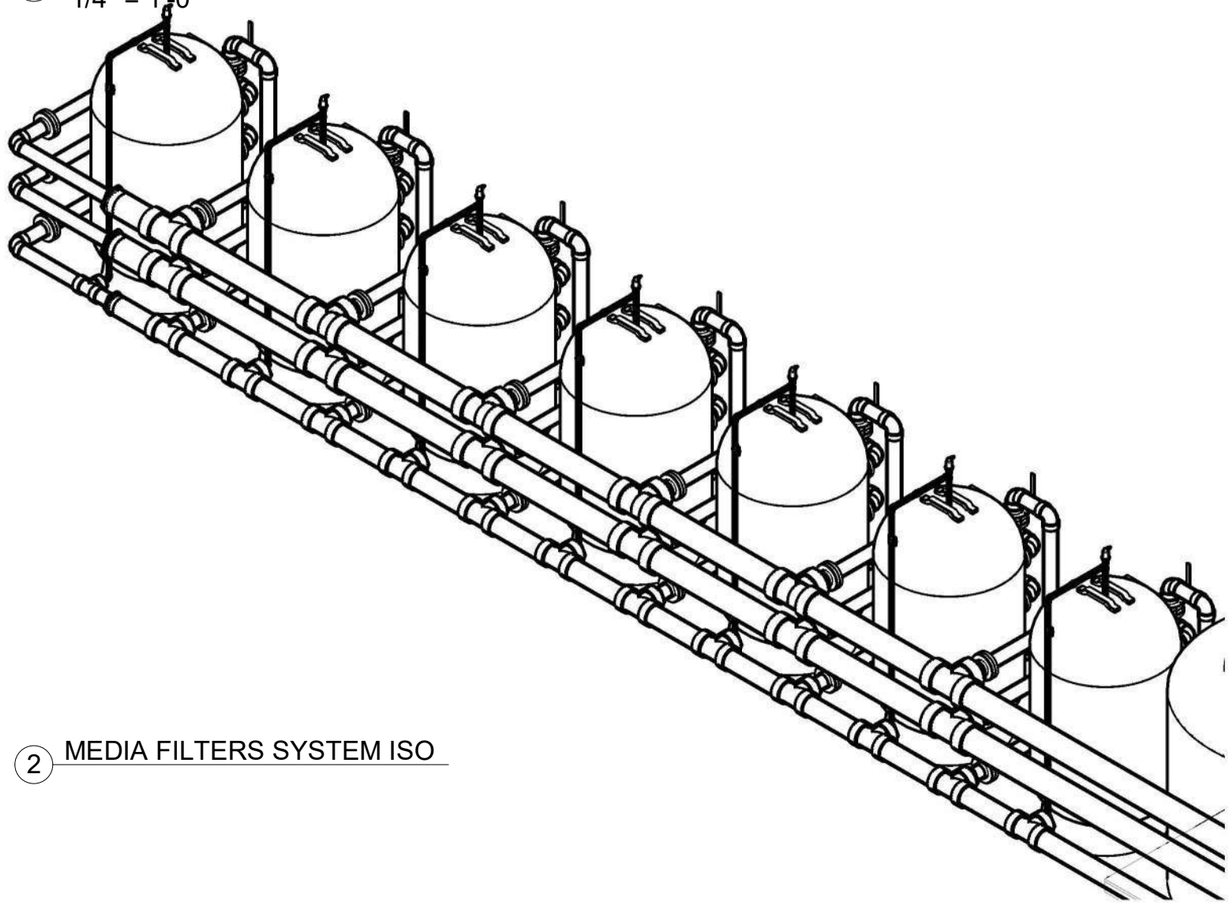
MECHANICAL
TRANSFER PUMP SYSTEM - ISO VIEW

DWG NO.	M-009C
DATE	DEC. 2025
PROJ NO.	02-103-106

100% DD



1 MEDIA FILTERS SYSTEM
1/4" = 1'-0"



2 MEDIA FILTERS SYSTEM ISO

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

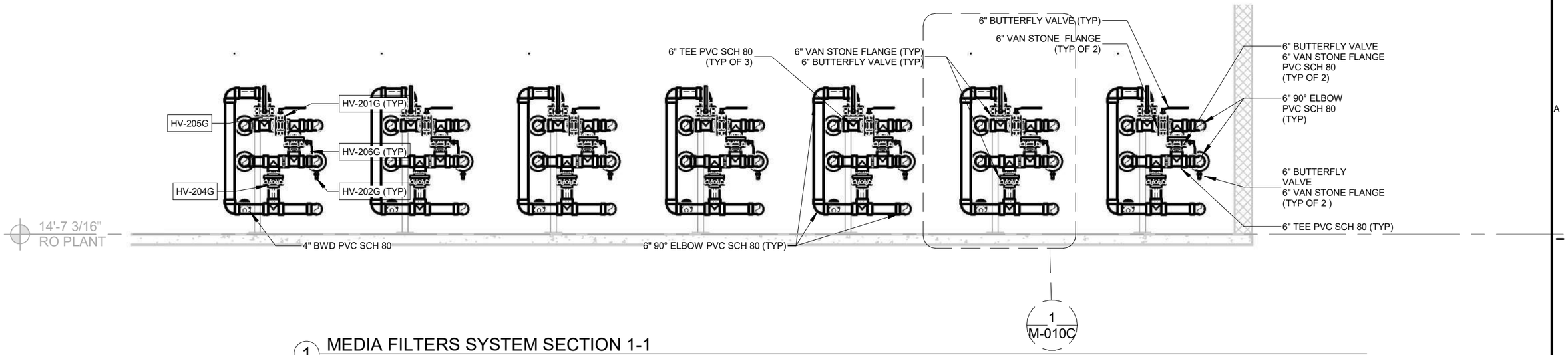
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

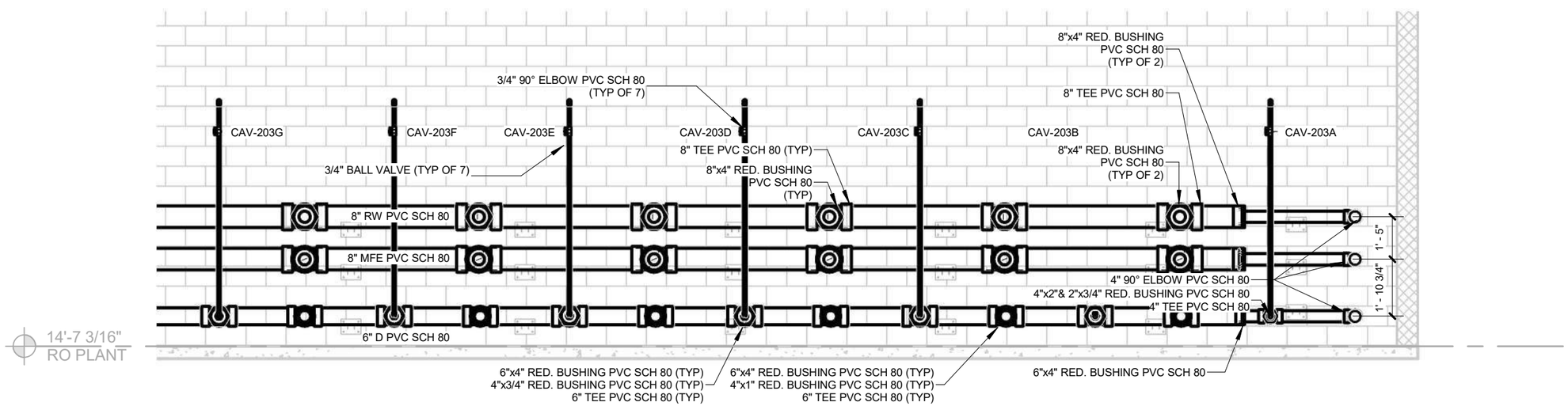
MECHANICAL
MEDIA FITERS SYSTEM

DWG NO. M-010
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 MEDIA FILTERS SYSTEM SECTION 1-1
1/4" = 1'-0"



2 MEDIA FILTERS SYSTEM SECTION 2-2
1/4" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

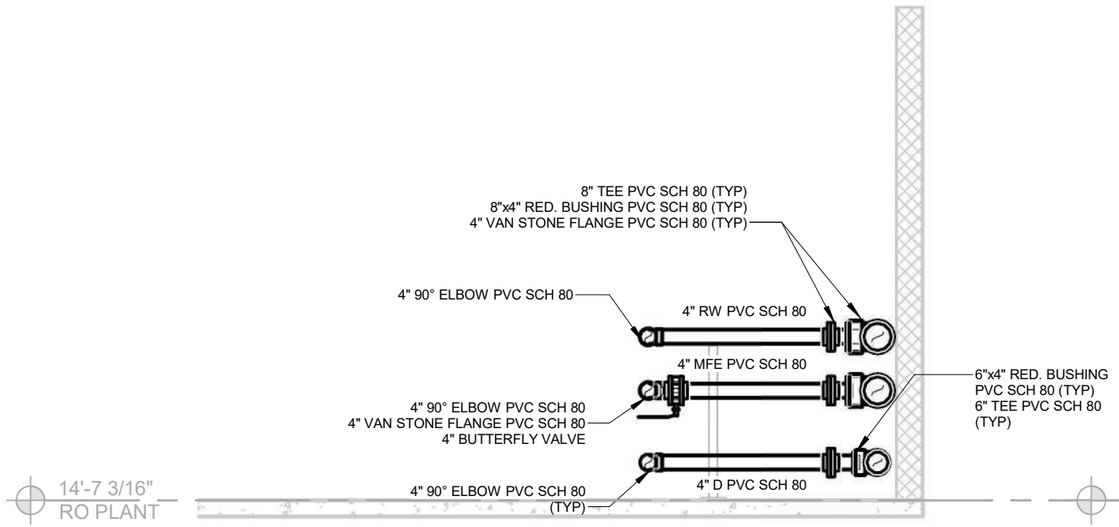
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
MEDIA FILTERS SYSTEM CUT SECTIONS

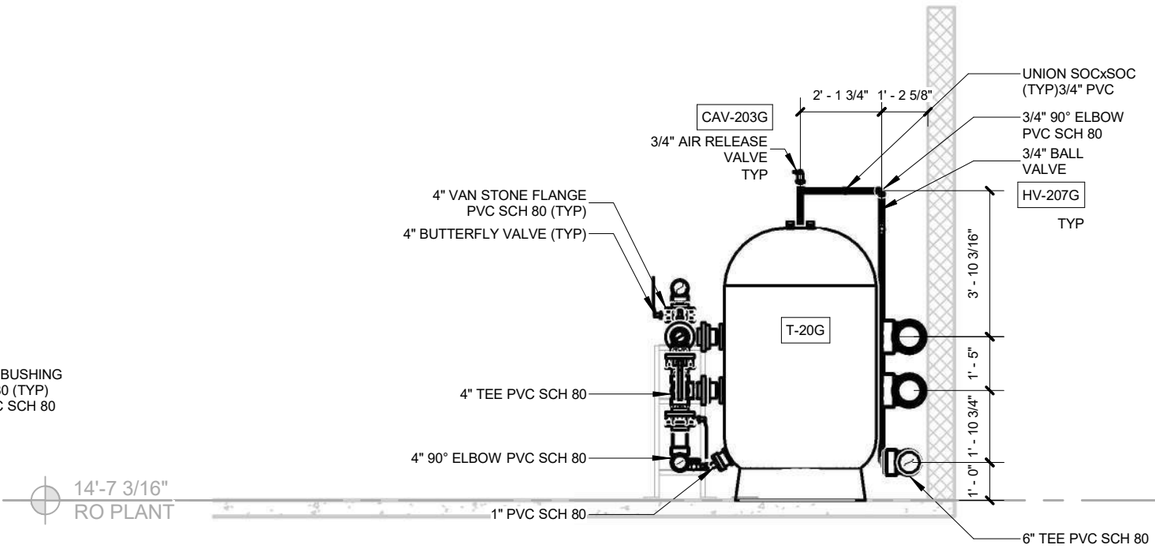
DWG NO.	M-010A
DATE	DEC. 2025
PROJ NO.	02-103-106

100% DD



MEDIA FILTERS SYSTEM CUT SECTION 3-3

1/4" = 1'-0"



MEDIA FILTERS SYSTEM CUT SECTION 4-4

1/4" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

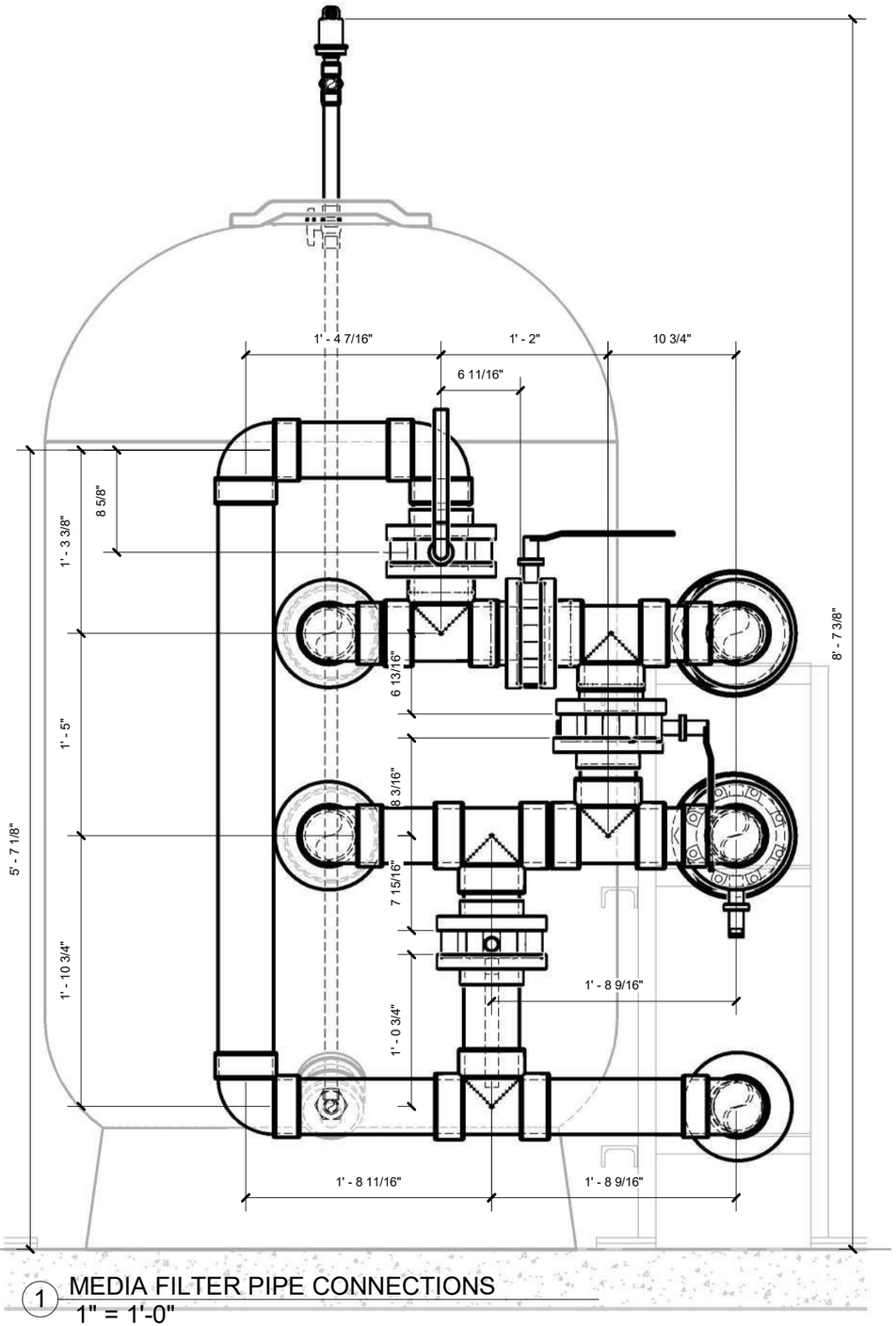
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
MEDIA FILTERS SYSTEM CUT SECTIONS

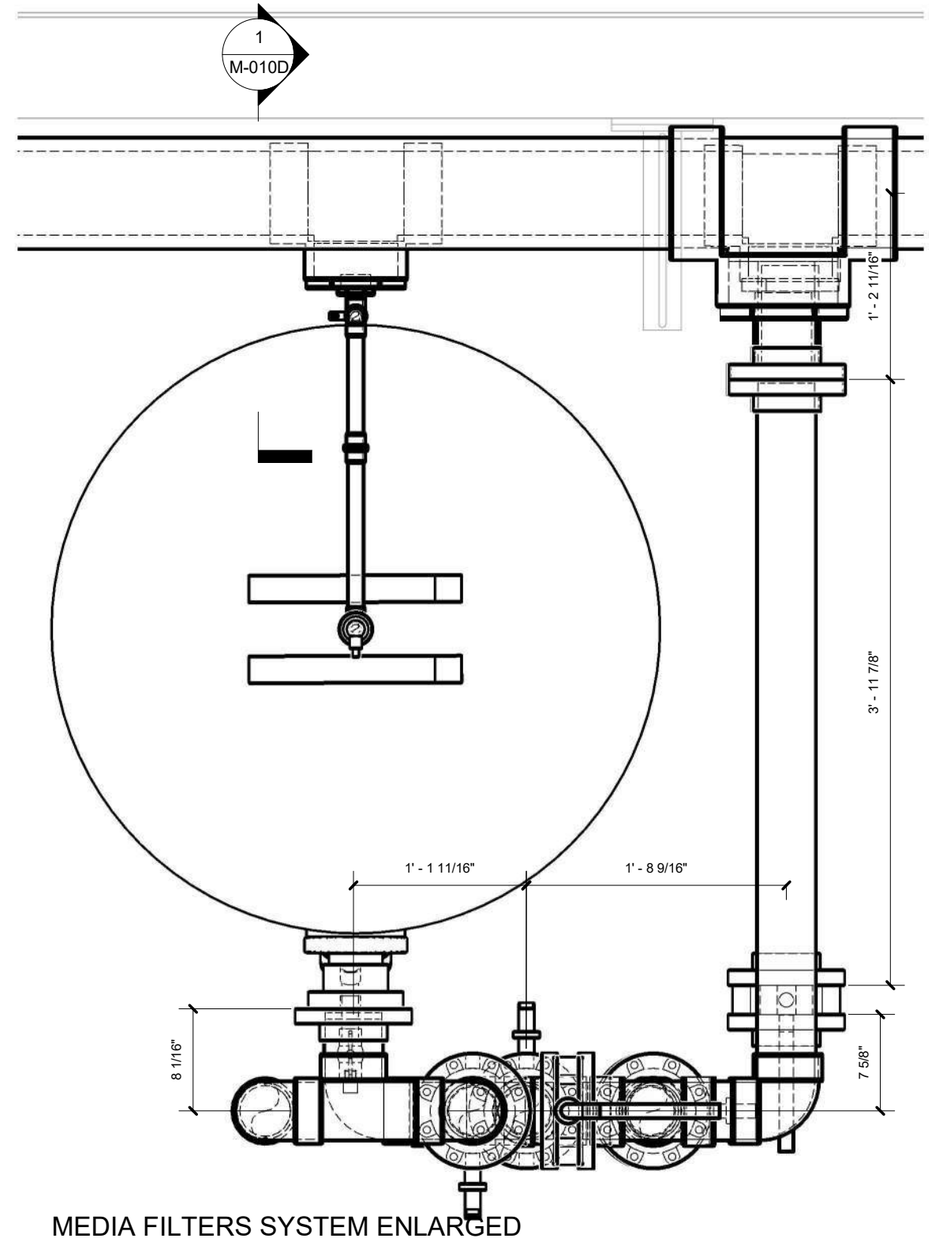
DWG NO. M-010B
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



14'-7 3/16"
RO PLANT

1 MEDIA FILTER PIPE CONNECTIONS
1" = 1'-0"



2 MEDIA FILTERS SYSTEM ENLARGED PLAN VIEW
1" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

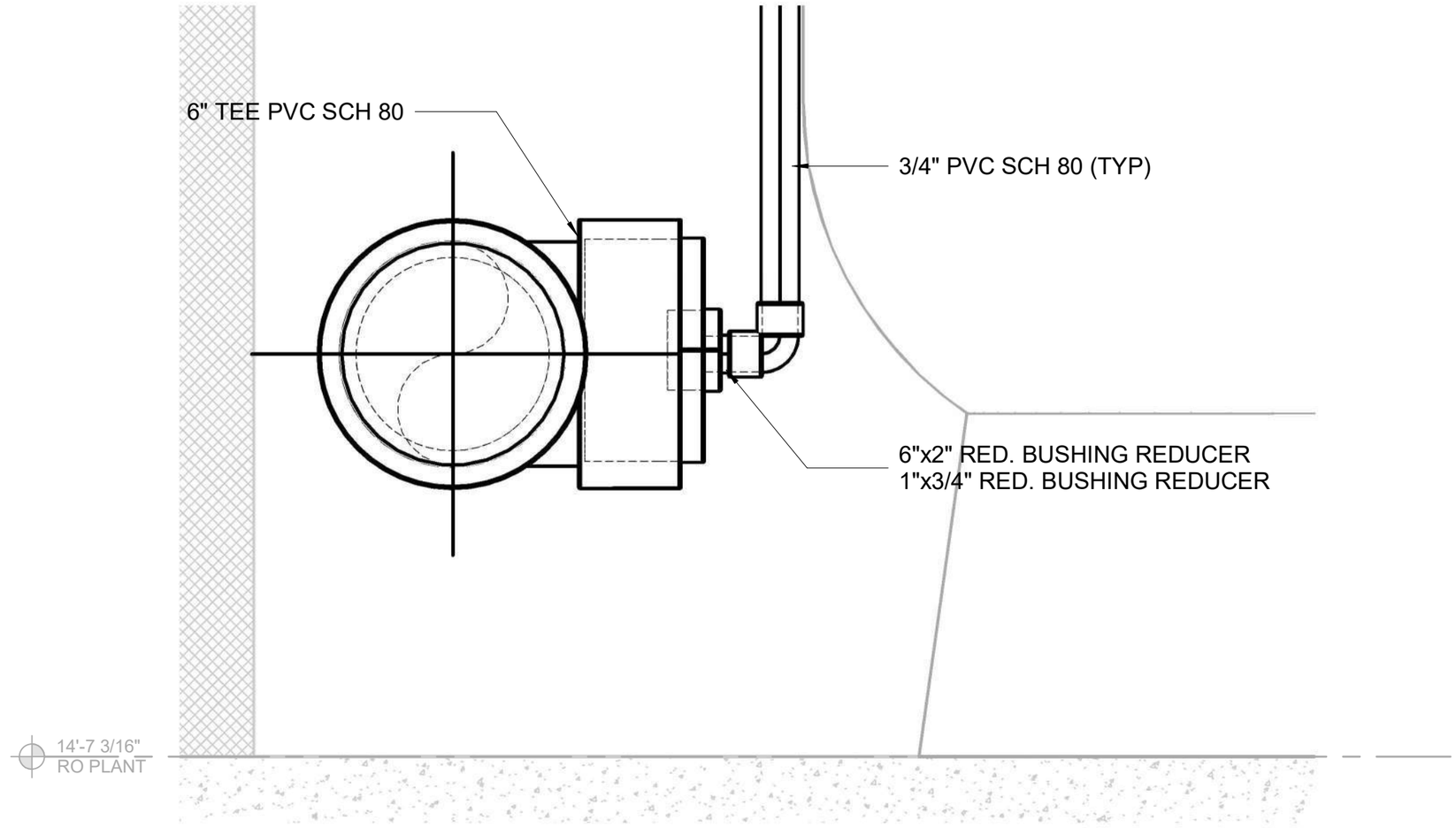
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
MEDIA FILTERS SYSTEM CUT SECTIONS

DWG NO. M-010C
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



1 MEDIA FILTERS DRAIN CONNECTION
3" = 1'-0"

NO.		REVISION	BY	APVD
4	11.07.25	EDITED PER RO VENDOR'S CUT SHEET	SD,SS	SD,SS
3	08.28.25	SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

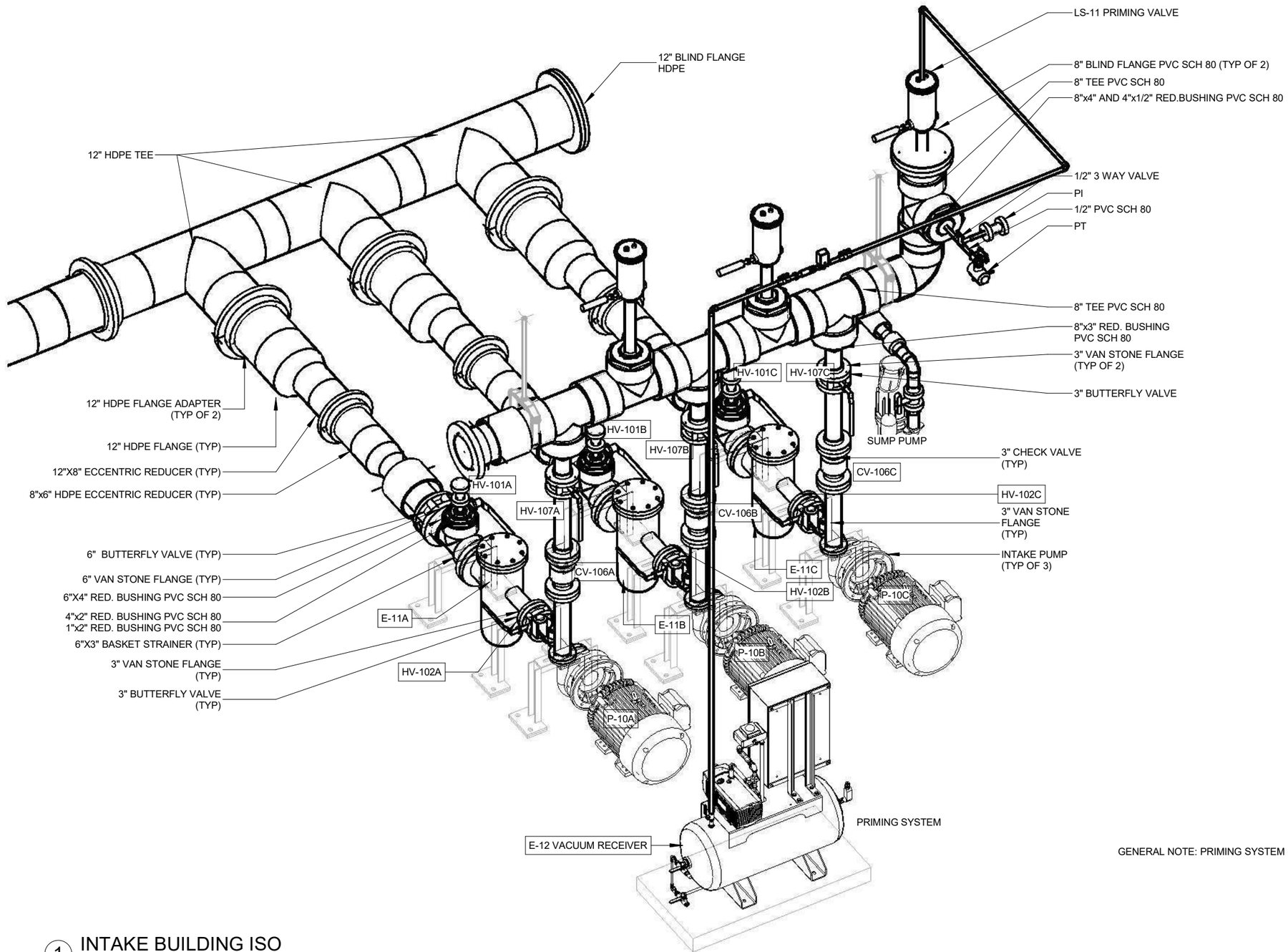
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
MEDIA FILTERS SYSTEM CUT SECTIONS

DWG NO. M-010D
DATE DEC. 2025
PROJ NO. 02-103-106

100% DD



GENERAL NOTE: PRIMING SYSTEM CONNECTION TO BE AT A SYSTEM HIGH POINT

1 INTAKE BUILDING ISO

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

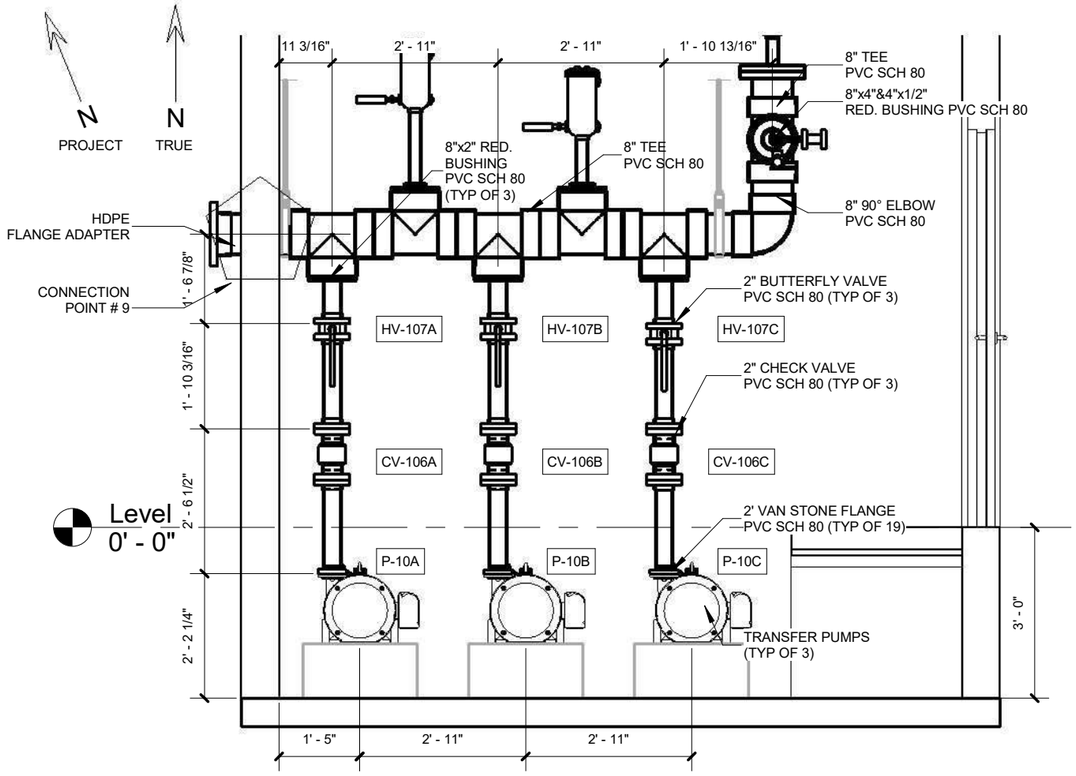
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
INTAKE BUILDING ISO

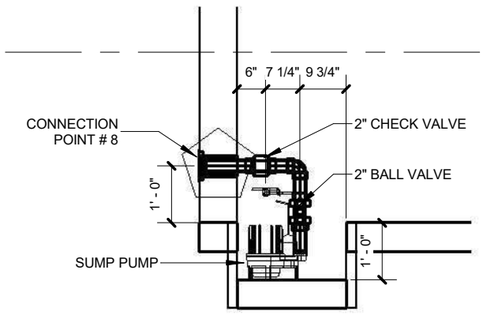
DWG NO. M-011
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD



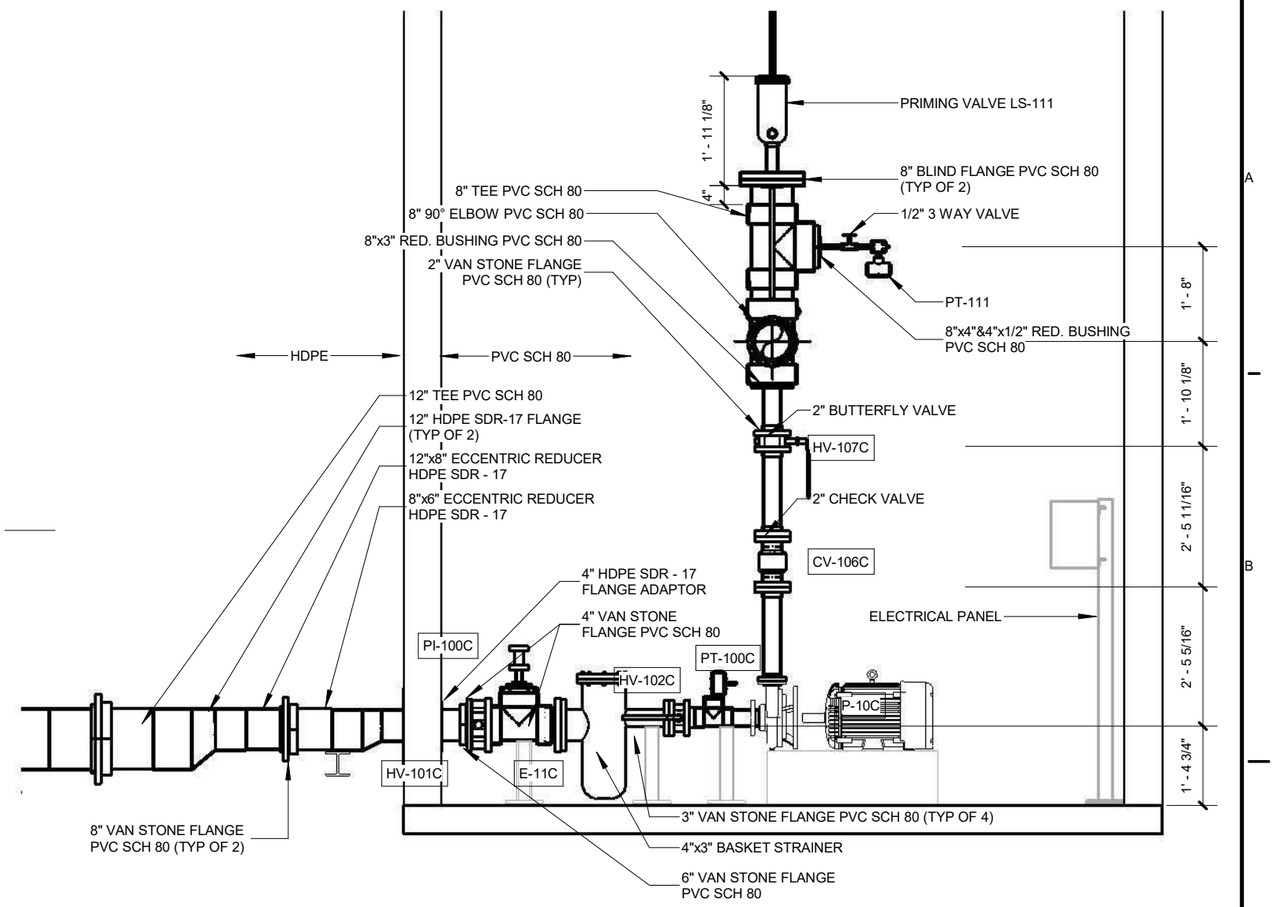
TRANSFER PUMP SYSTEM CUT SECTION 1

3/8" = 1'-0"



SUMP PUMP PIT CUT SECTION 3

3/8" = 1'-0"



TRANSFER PUMP SYSTEM CUT SECTION 2

3/8" = 1'-0"

NO.		REVISION	BY	APVD
4	12.12.2025	REVISED PER SALAS O'BRIAN'S REVIEW	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1	06.23.2025	07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

MECHANICAL
INTAKE BUILDING CUT SECTIONS

DWG NO. M-011A
DATE DEC. 2025
PROJ NO. 02-103-106

100%DD

WESTIN ST. JOHN, USVI

2 x 150K GPD SEAWATER REVERSE OSMOSIS PLANT FROM OPEN SEA INTAKE

ELECTRICAL

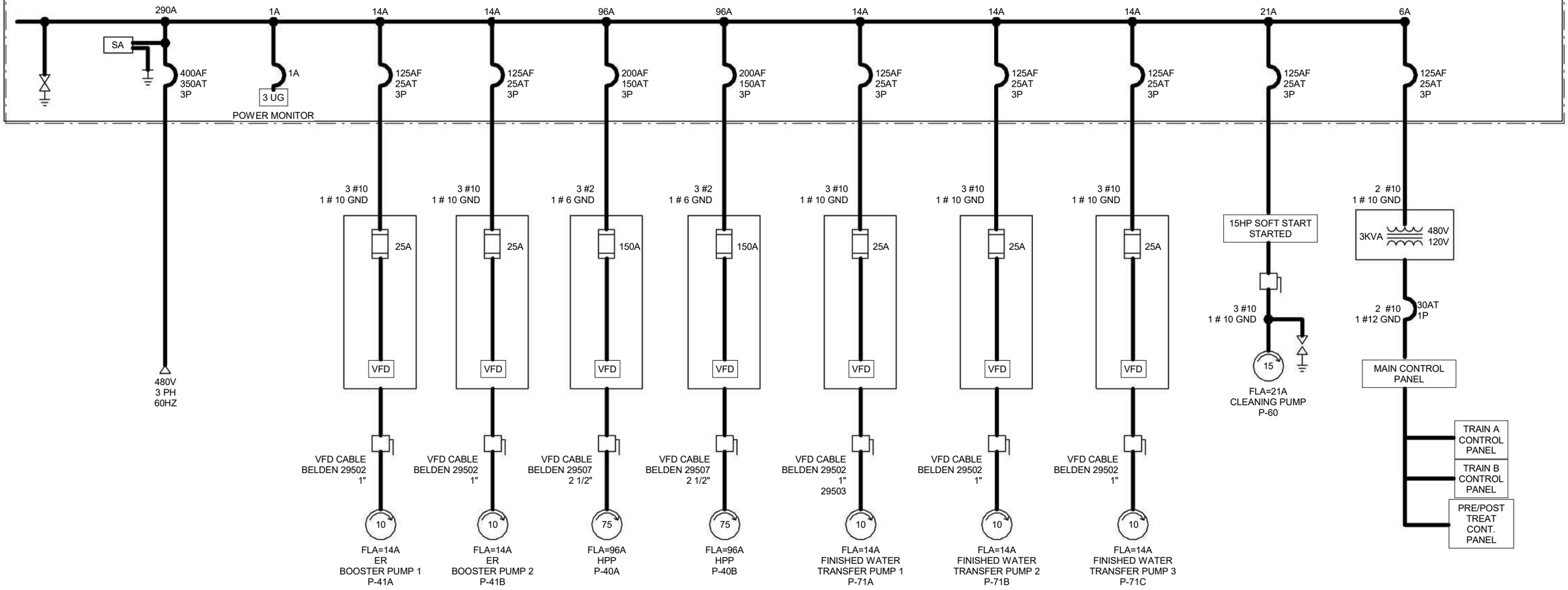
ELECTRICAL	
Sheet Number	Sheet Name
E-0000	SHEET LIST
E-001A	RO SYSTEM ONE LINE
E-001B	INTAKE BUILDING ONE LINE
E-002	3 PHASE POWER DIAGRAM MAIN CONTROL PANEL (0-99)
E-003	POWER DIAGRAM MAIN CONTROL PANEL (0-99)
E-004	CONTROL SCHEMATIC MAIN CONTROL PANEL (0-99)
E-400	TRAIN X CONTROL PANEL SCHEMATIC (400-499)
E-500	PRE/POST TREATMENT CONTROL PANEL SCHEMATIC (500-599)
E-501	PRE/POST TREAT CHEM PUMP CONTROL SCHEMATIC (500-599)
E-601	RECEPTACLES LOCATION
E-602	ELECTRICAL CABLE PLAN VIEW
E-602A	ELECTRICAL CABLE CUT SECTIONS
E-700	RO SKIDS AND EQUIPMENT ARCHITECT DIAGRAM

TSG TECHNOLOGIES
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

100% DD

RO POWER PANEL

RO SYSTEM POWER PANEL
480 VOLT, 3 PHASE, 3 WIRE 60HZ
400 AMP MAIN BUS.



STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

WESTIN ST. JOHN
ST. JOHN, USVI

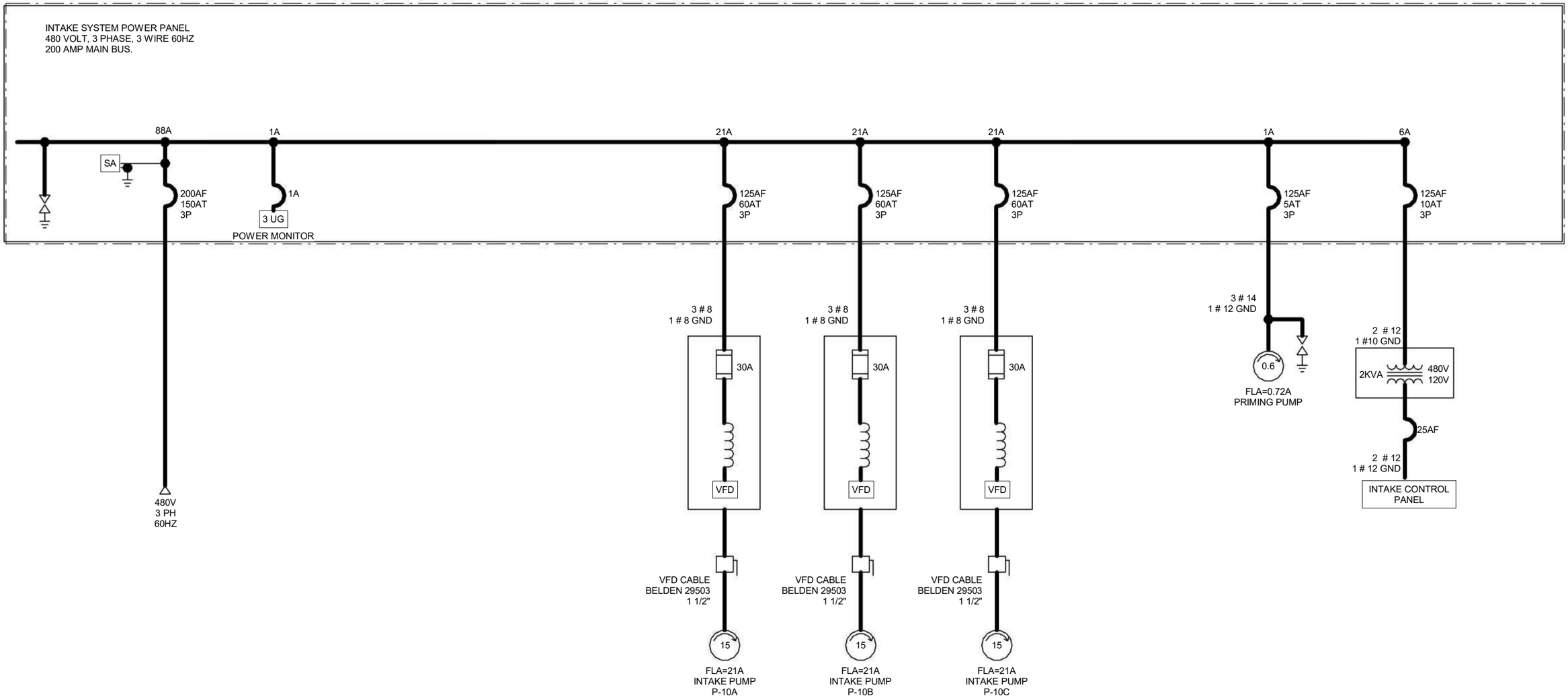
2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
RO SYSTEM ONE LINE

DWG NO.	E-001A
DATE	SEP. 2025
PROJ NO.	02-103-106

100% DD

INTAKE POWER PANEL



STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

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DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

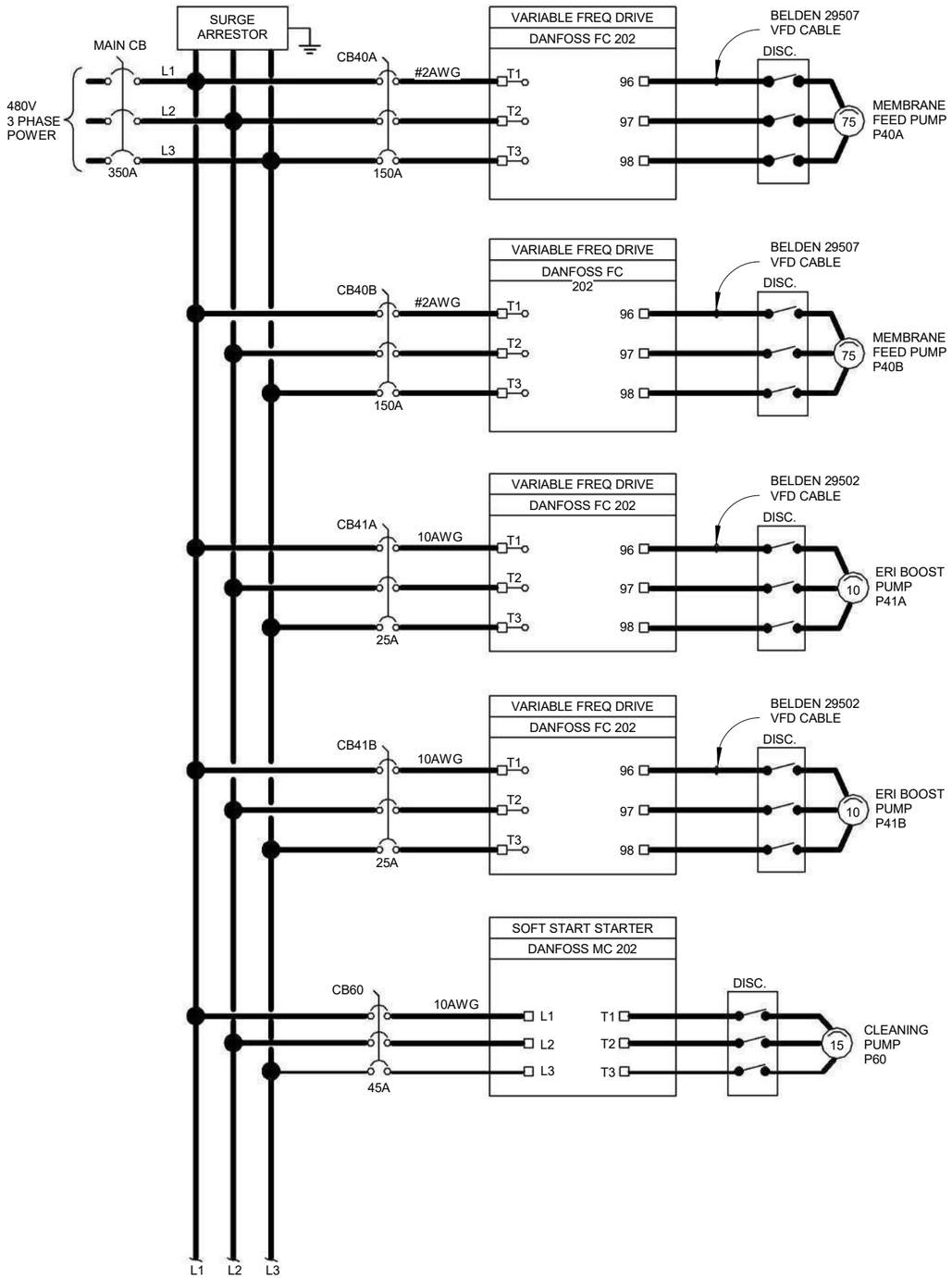
WESTIN ST. JOHN
ST. JOHN, USVI

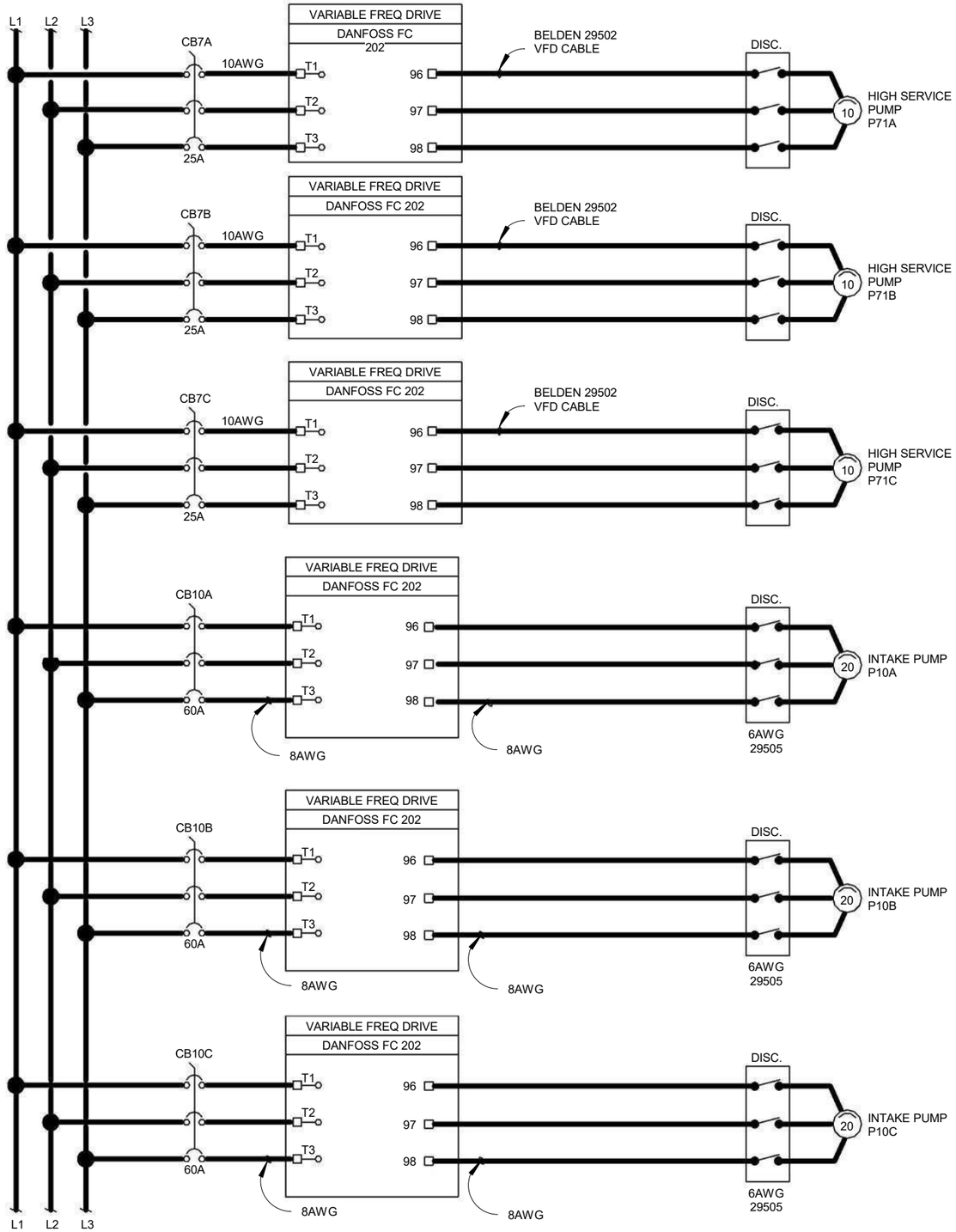
2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
INTAKE BUILDING ONE LINE

DWG NO.	E-001B
DATE	SEP. 2025
PROJ NO.	02-103-106

100% DD





STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

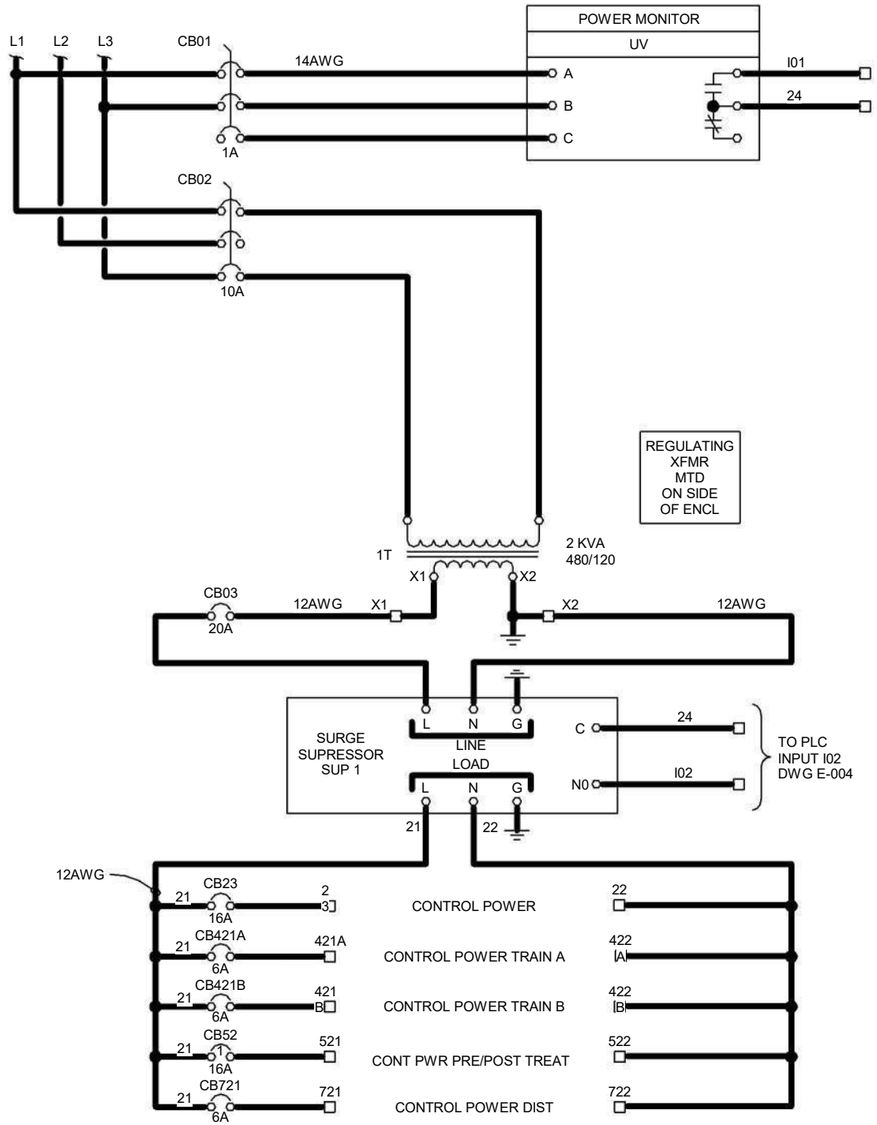
WESTIN ST. JOHN
ST. JOHN, USVI

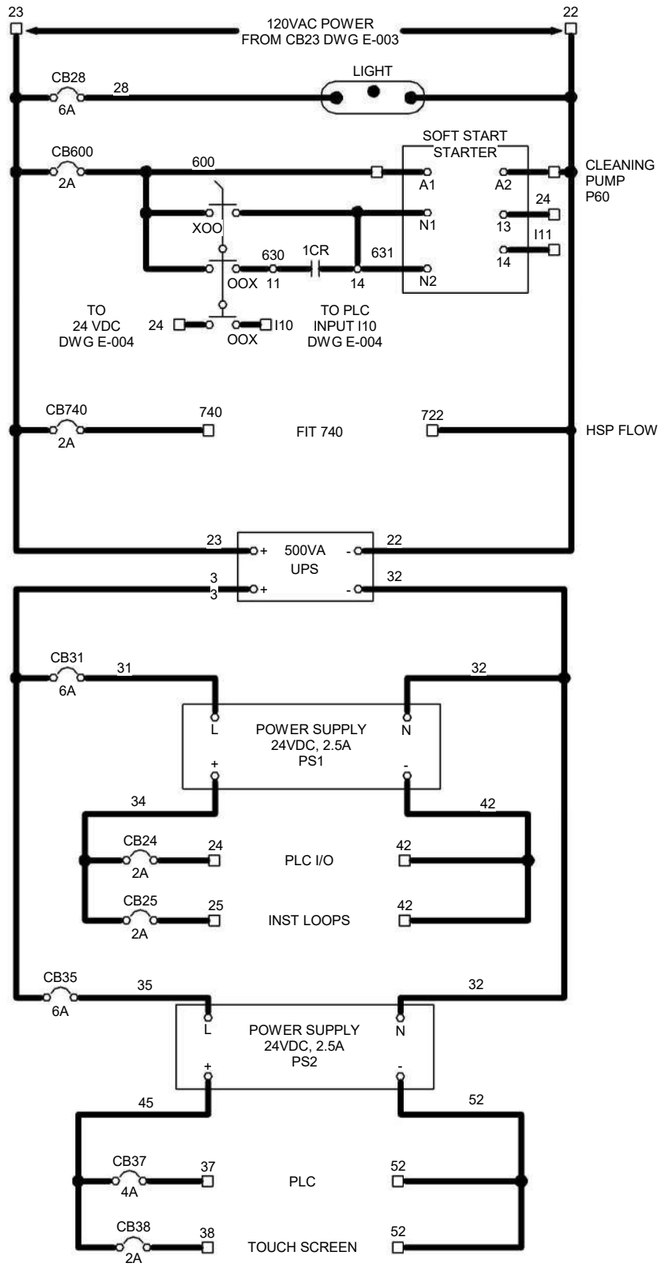
2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
3 PHASE POWER DIAGRAM MAIN CONTROL PANEL (0-99)

DWG NO. E-002
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD





NOTES:

1. UNLESS OTHERWISE NOTED. PANEL CONTROL WIRING TO BE AS FOLLOWS.
   DC WIRING TO BE 20 AWG UL STYLE 1007 (BELDEN 9919) OR EQUAL.
   AC WIRING TO BE 16 AWG MTW OR TFFN.
   COLORS TO BE:
   AC HOT - RED
   AC NEUT - WHITE
   DC+ - BLUE
   DC- - YELLOW
2. POWER WIRING TO BE SIZED AS INDICATED. PANEL POWER WIRING TO BE TYPE MTW.

STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

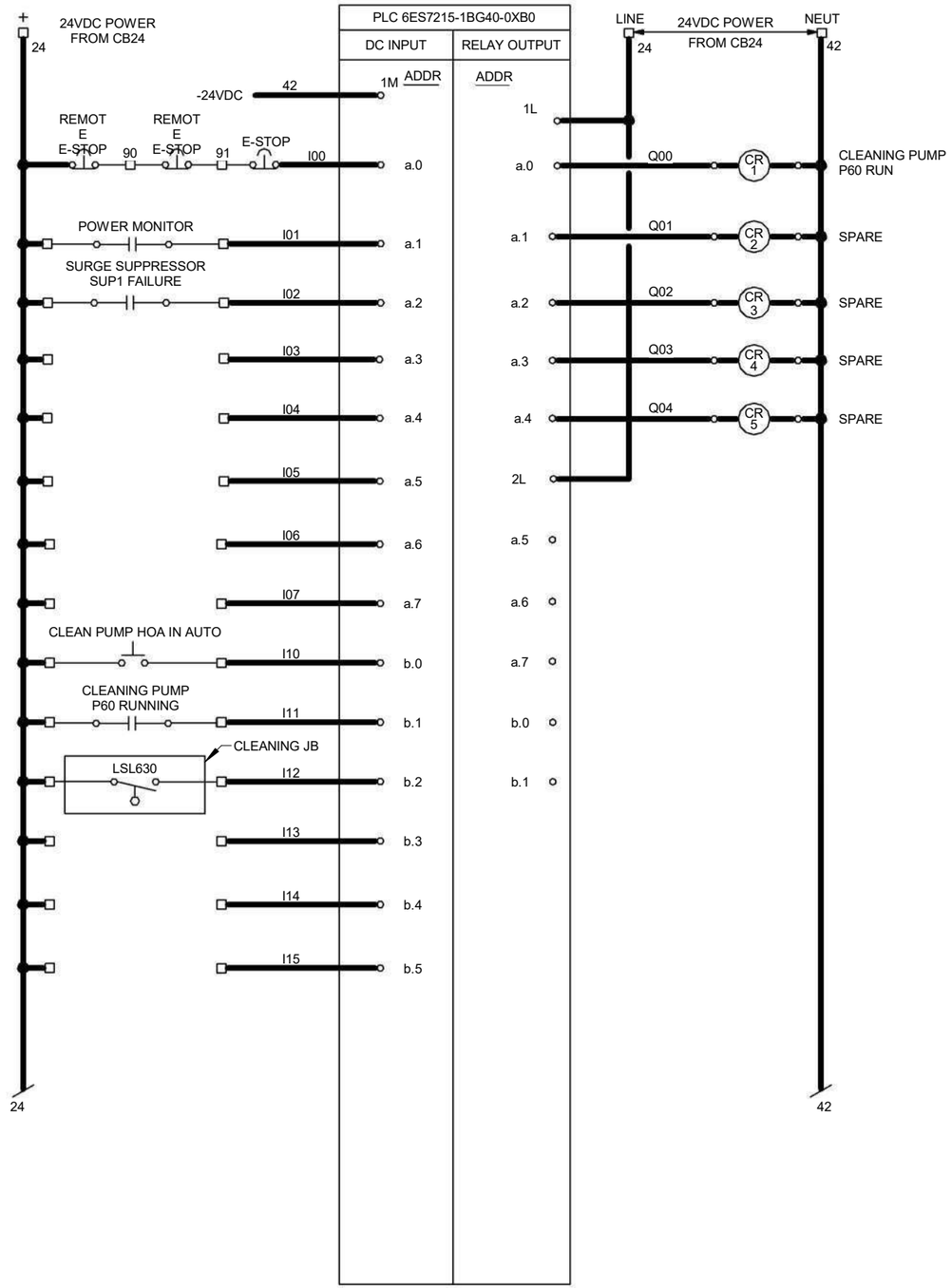
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
POWER DIAGRAM
MAIN CONTROL PANEL (0-99)

DWG NO.	E-003
DATE	SEP. 2025
PROJ NO.	02-103-106

100% DD



STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

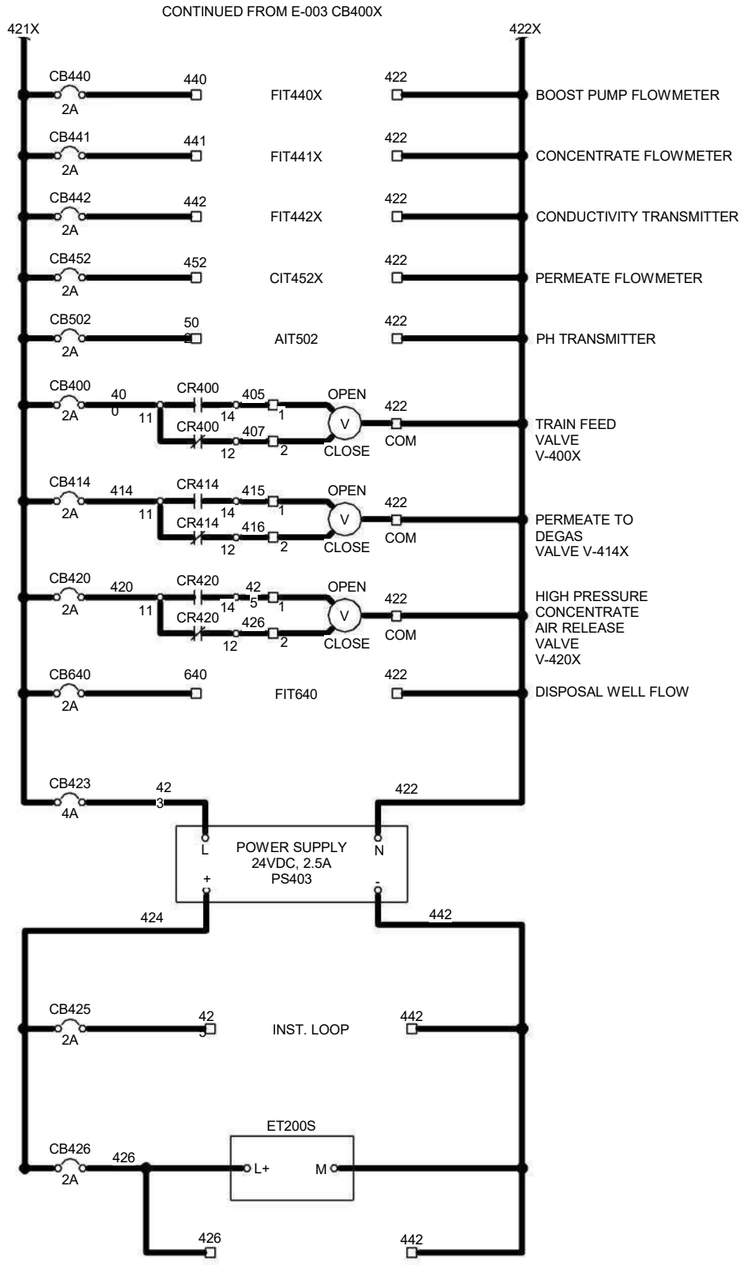
WESTIN ST. JOHN
ST. JOHN, USVI

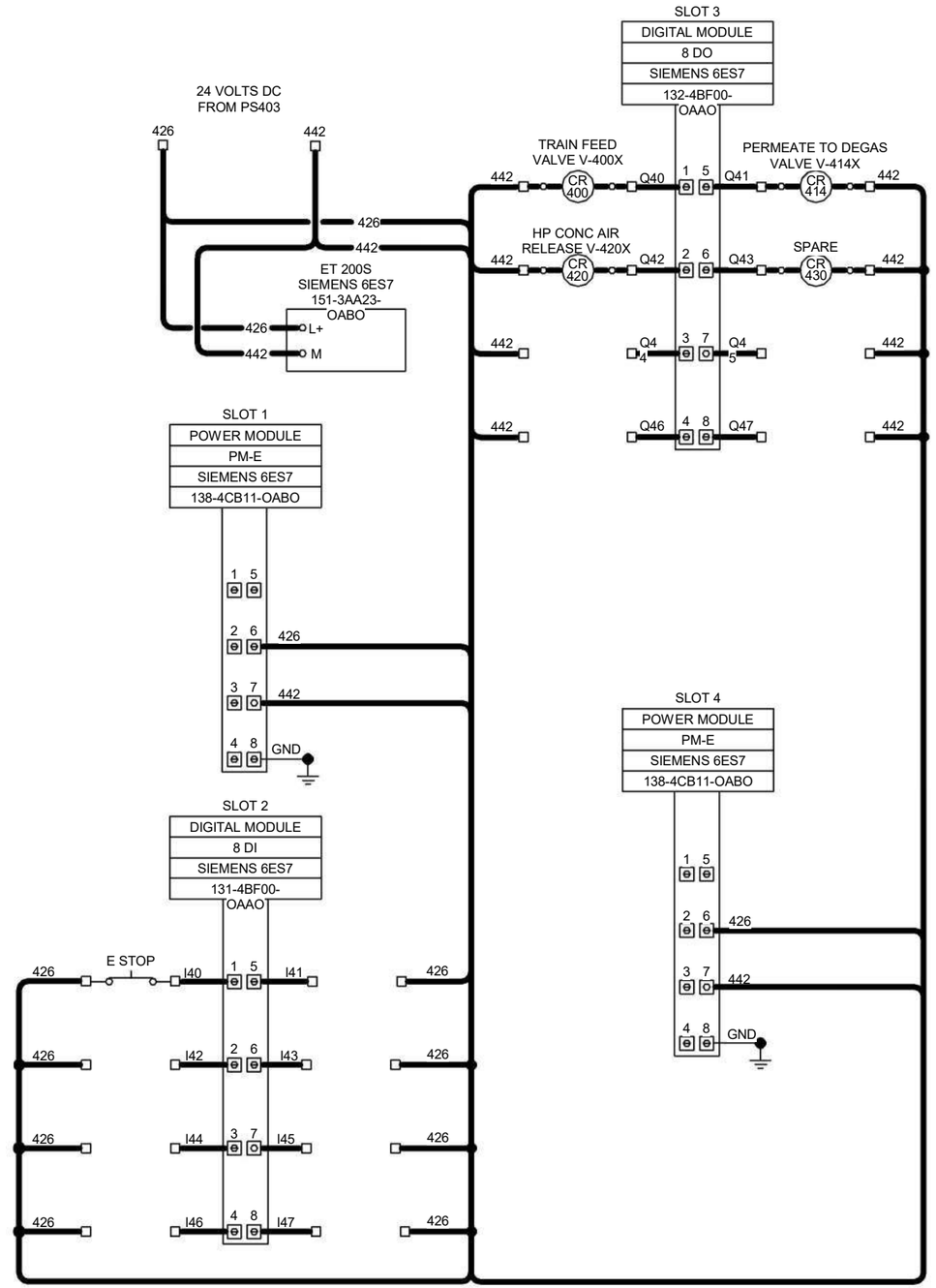
2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
CONTROL SCHEMATIC
MAIN CONTROL PANEL (0-99)

DWG NO.	E-004
DATE	SEP. 2025
PROJ NO.	02-103-106

100% DD





STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

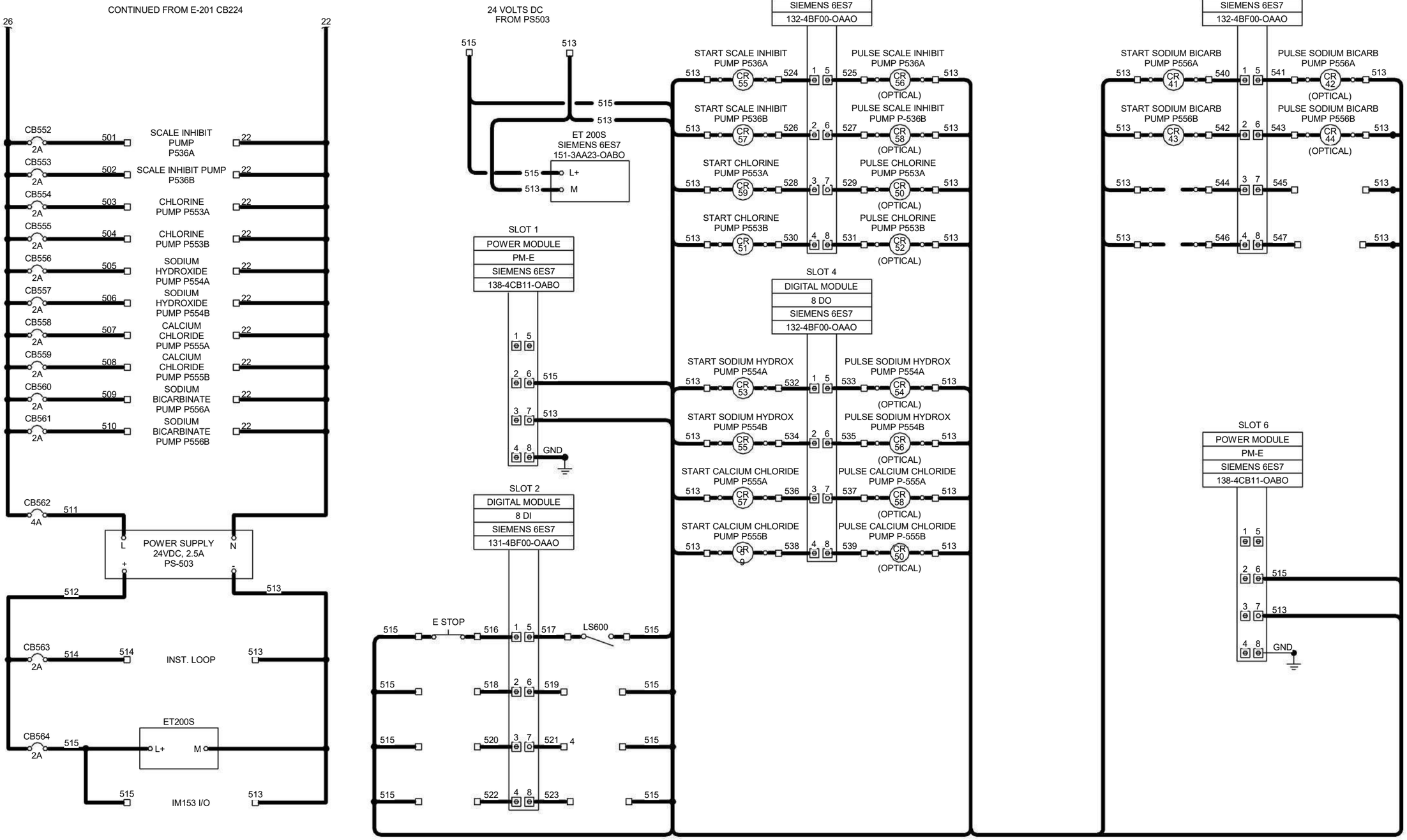
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
TRAIN X CONTROL PANEL SCHEMATIC (400-499)

DWG NO. E-400
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD



STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

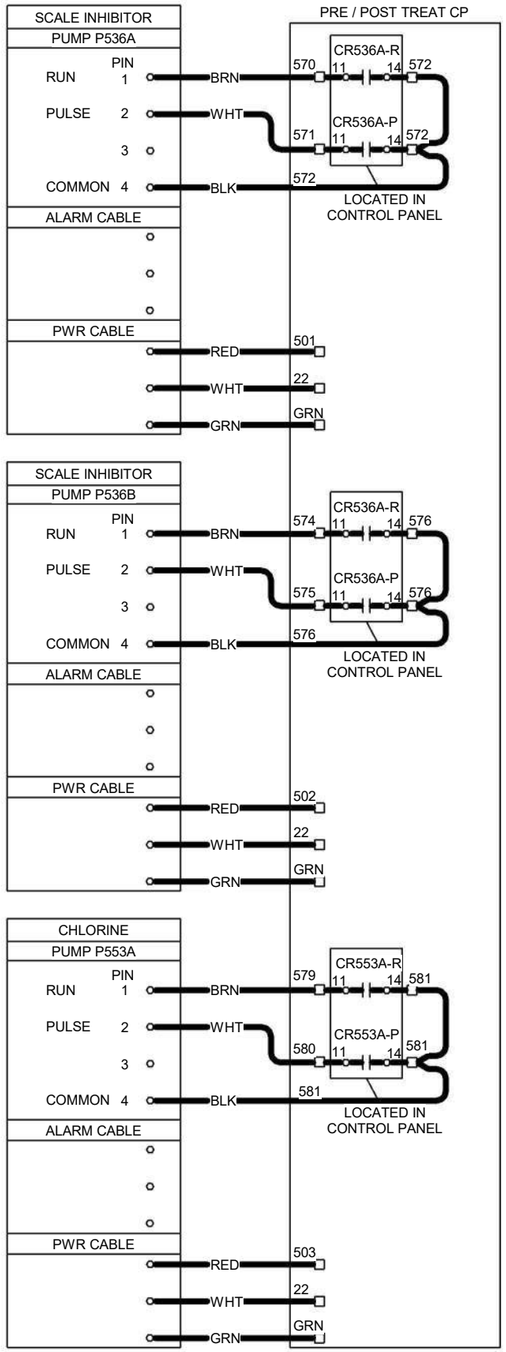
WESTIN ST. JOHN
ST. JOHN, USVI

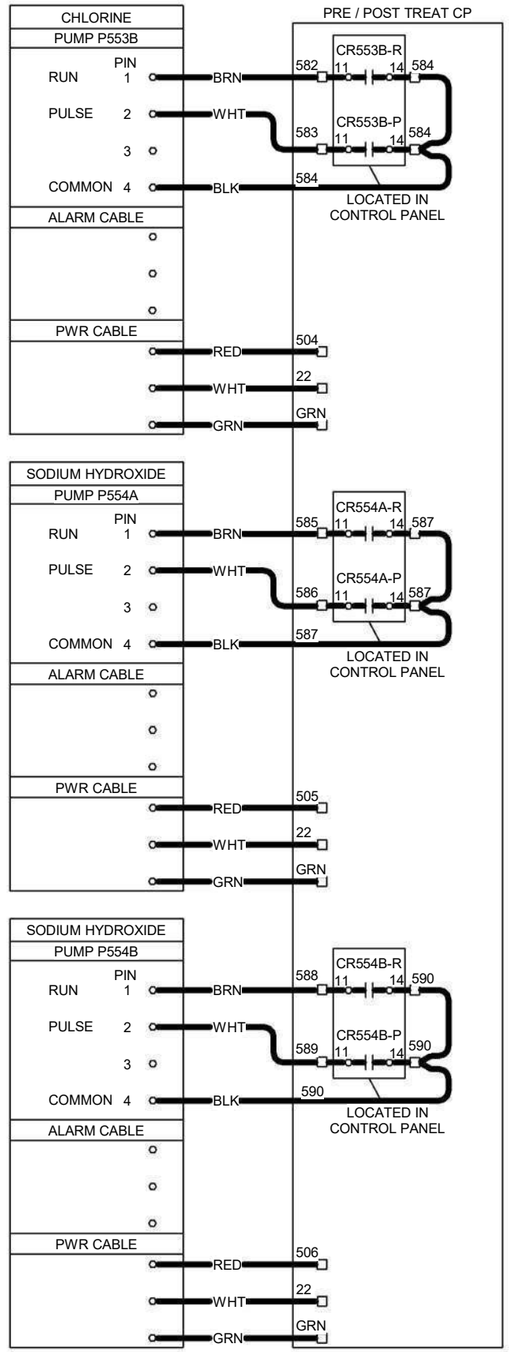
2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

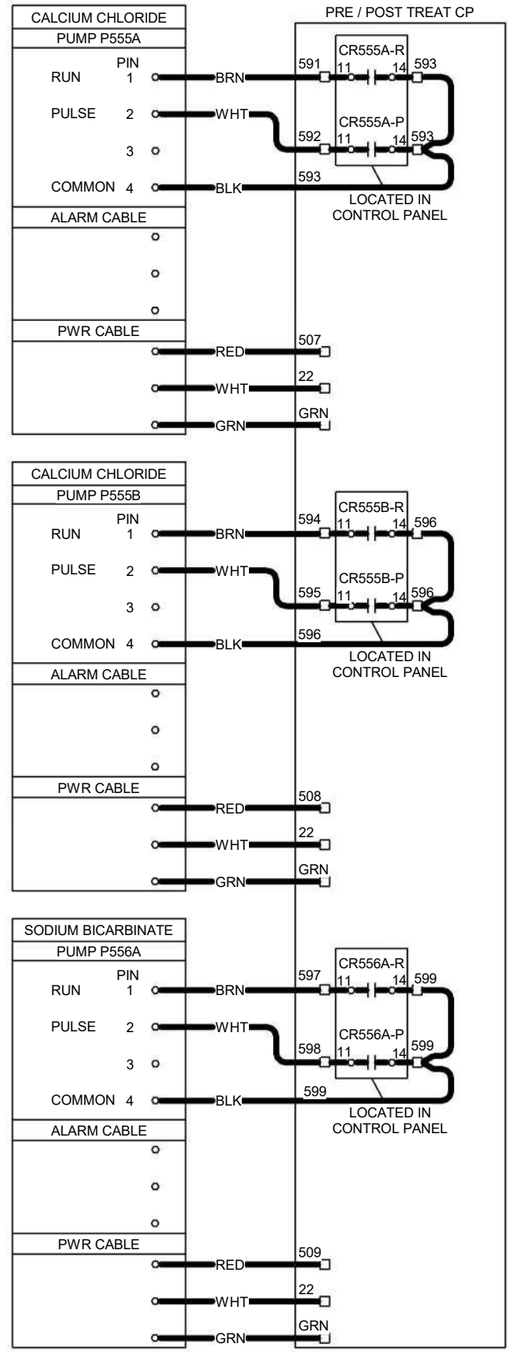
FABRICATION
PRE/POST TREATMENT CONTROL PANEL
SCHEMATIC (500-599)

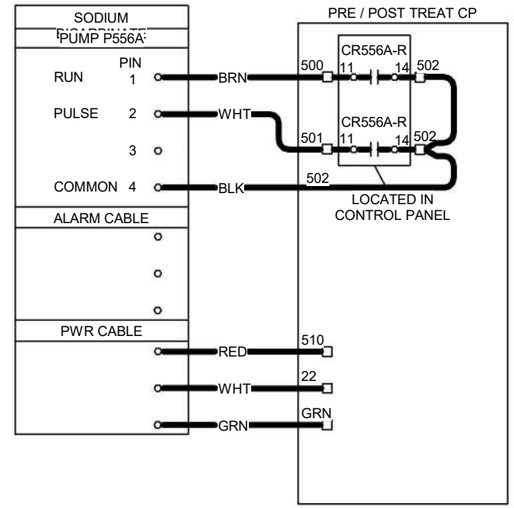
DWG NO. E-500
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD









STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

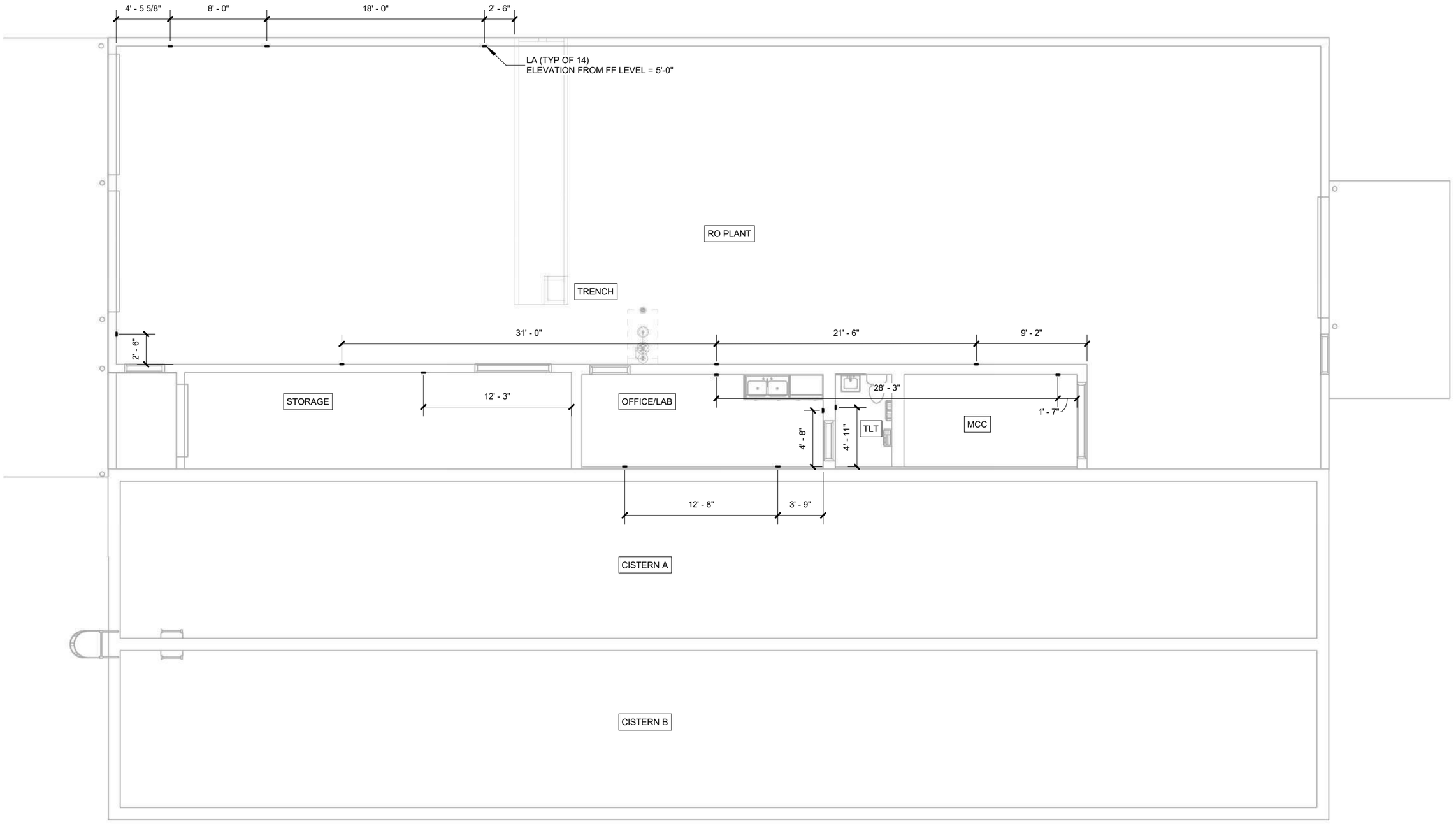
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
PRE/POST TREAT CHEM PUMP CONTROL SCHEMATIC (500-599)

DWG NO.	E-501
DATE	SEP. 2025
PROJ NO.	02-103-106

100% DD



1 OVERALL RECEPTACLES LAYOUT
1/8" = 1'-0"

STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

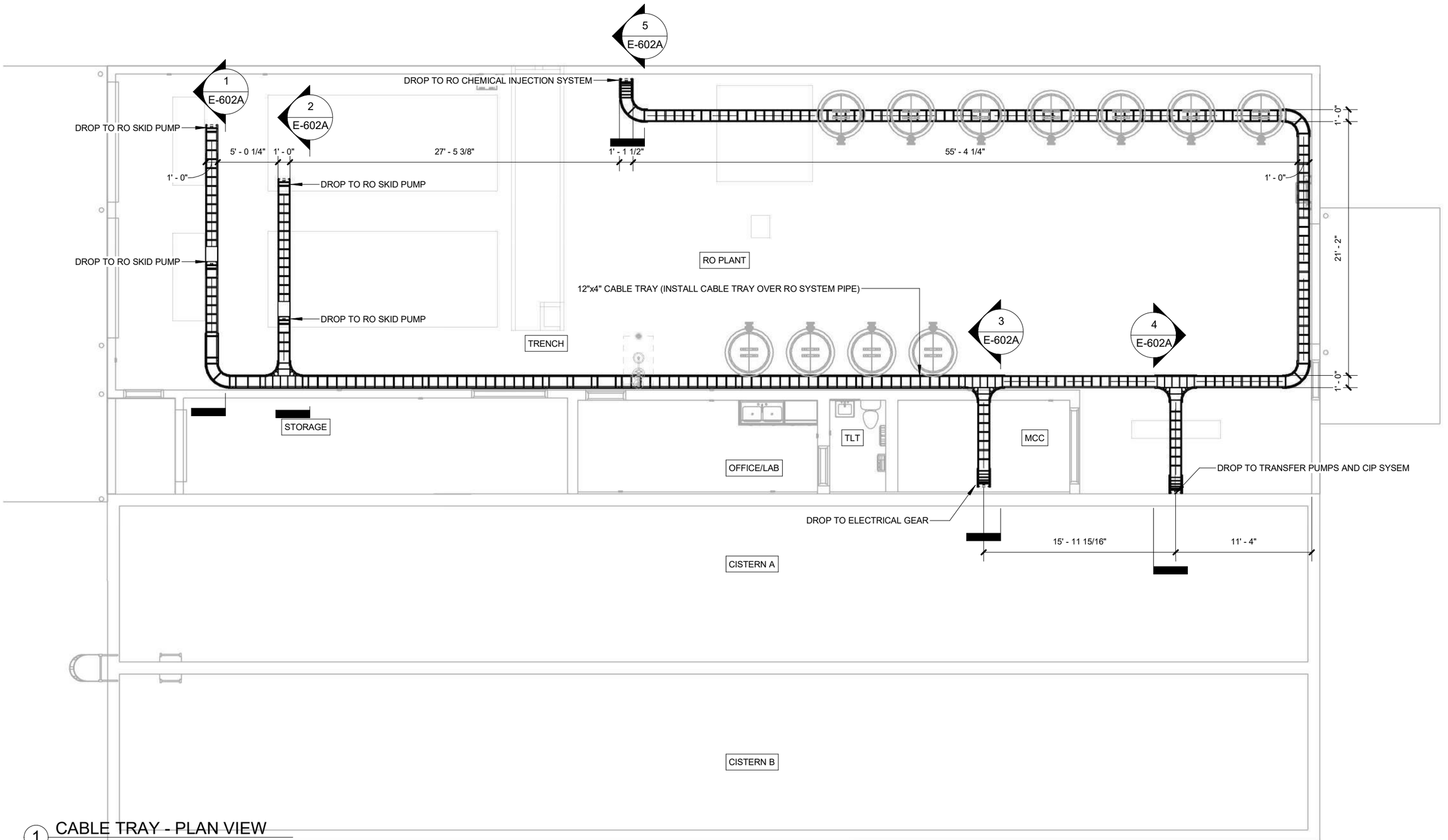
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
RECEPTACLES LOCATION

DWG NO. E-601
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD



1 CABLE TRAY - PLAN VIEW
1/8" = 1'-0"

STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

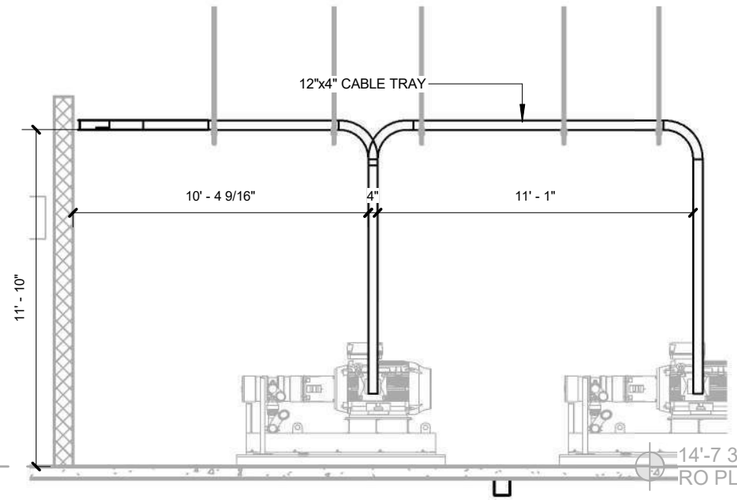
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
ELECTRICAL CABLE PLAN VIEW

DWG NO. E-602
DATE SEP. 2025
PROJ NO. 02-103-106

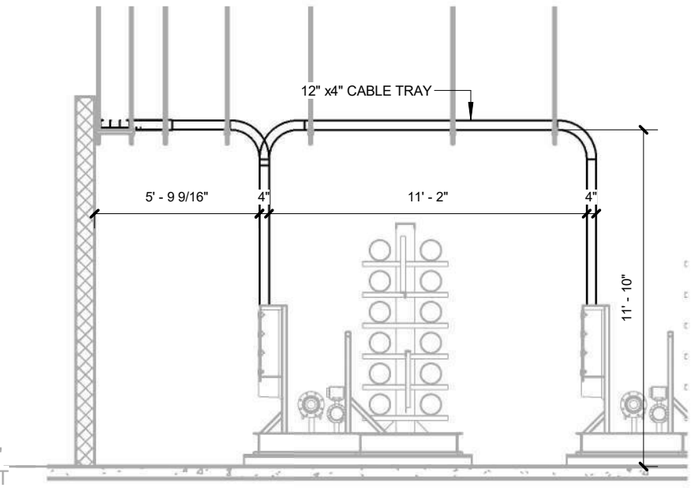
100% DD



CABLE TRAY DROP TO RO PUMPS ELEVATION VIEW

1

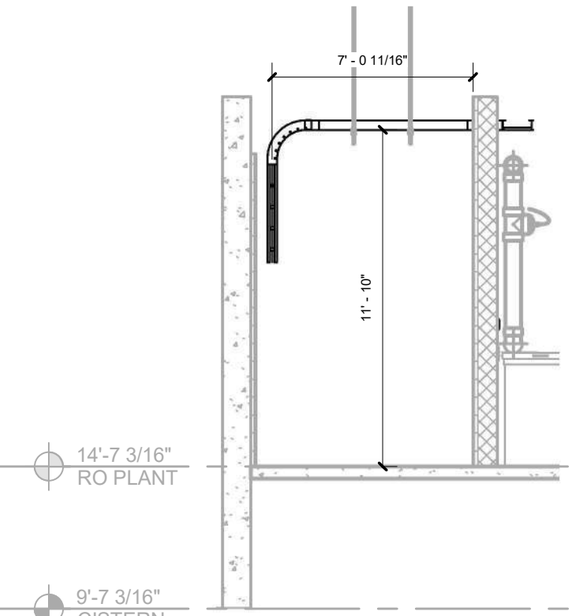
3/16" = 1'-0"



CABLE TRAY DROP TO RO SKID ELEVATION VIEW

2

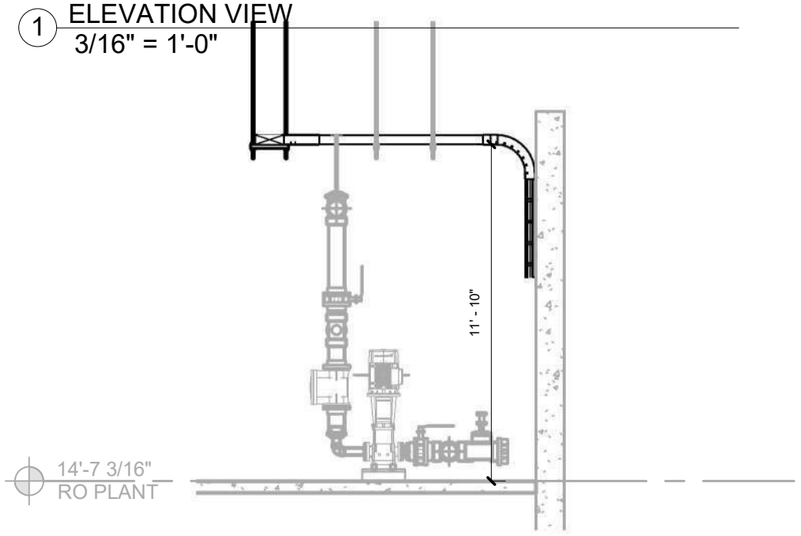
3/16" = 1'-0"



CABLE TRAY DROP TO ELECTRICAL GEAR ELEVATION VIEW

3

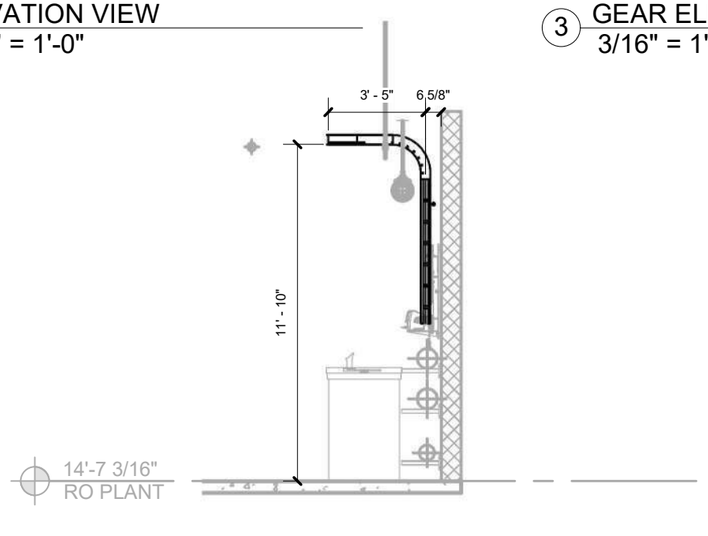
3/16" = 1'-0"



CABLE TRAY DROP TO CIP AND TRANSFER PUMP SYSTEM ELEVATION VIEW

4

3/16" = 1'-0"



CABLE TRAY DROP TO RO CHEMICAL INJECTION SYSTEM

5

3/16" = 1'-0"

STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN SD, SS
DR TH
CHK SD, SS
APVD SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

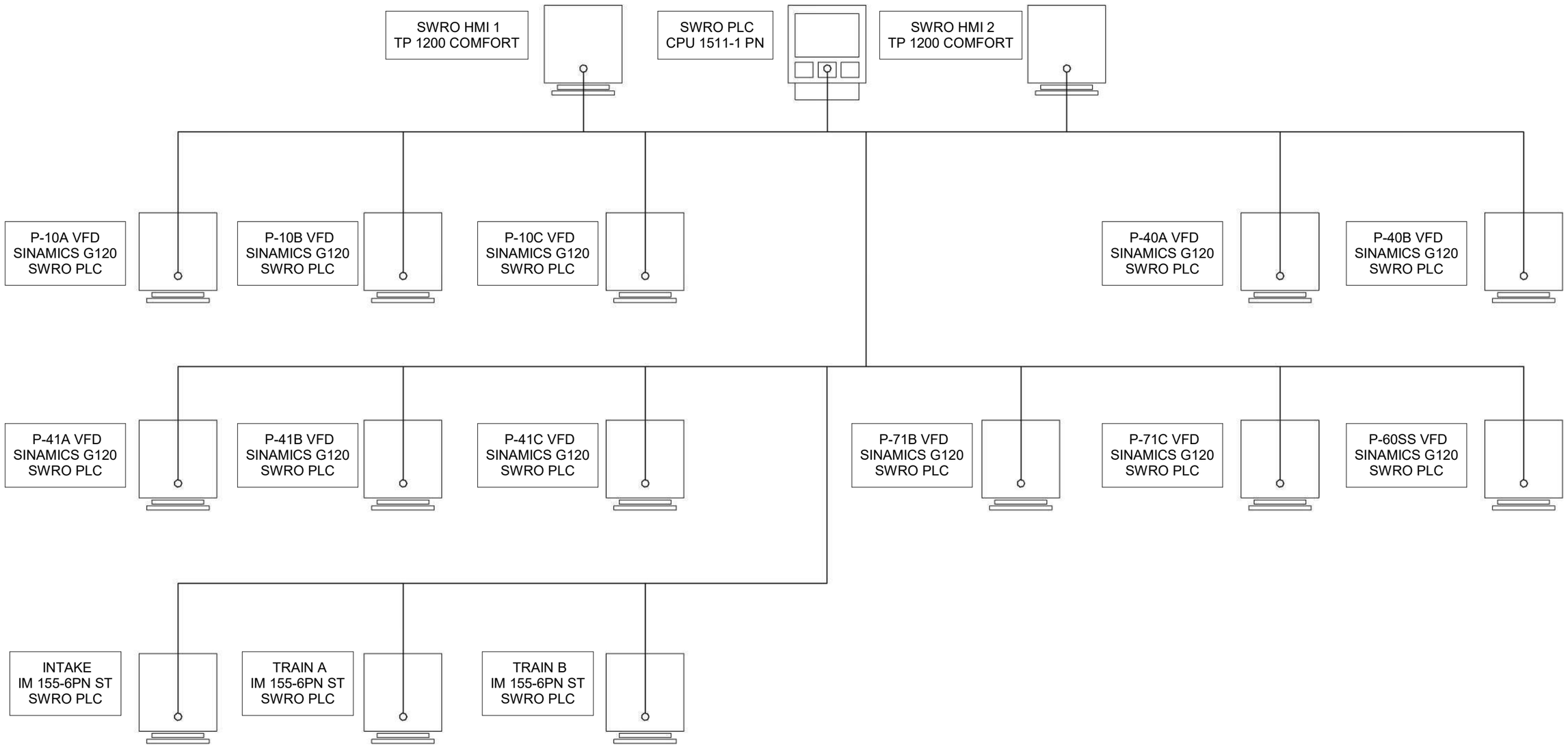
WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
ELECTRICAL CABLE CUT SECTIONS

DWG NO E-602A
DATE SEP. 2025
PROJ NO. 02-103-106

100% DD



STAMP

NO.		REVISION	BY	APVD
4		RE - DESIGN 10.05.2025	SD,SS	SD,SS
3		SCOPE BOUNDARY ADDED AND MODIFIED CISTERN PER DESIGN CHANGES, C-004A ADDED 08.28.2025	SD,SS	SD,SS
2		07.18.2025	SD,SS	SD,SS
1		07.07.2025	SD,SS	SD,SS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN	SD, SS
DR	TH
CHK	SD, SS
APVD	SD, SS

TSG
MAKING EVERY DROP COUNT
GAINESVILLE, FLORIDA - CERTIFICATE OF AUTHORIZATION #9026

WESTIN ST. JOHN
ST. JOHN, USVI

2x150K GPD SEAWATER REVERSE OSMOSIS PLANT
FROM OPEN SEA INTAKE

FABRICATION
RO SKIDS AND EQUIPMENT ARCHITECT DIAGRAM

DWG NO.	E-700
DATE	SEP. 2025
PROJ NO.	02-103-106

100% DD