ELEVATOR RENOVATIONS AT ROANOKE ISLAND AQUARIUM

FILE # 22-24684-01 CD PHASE

ABBREVIATIONS

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(1) ROD + (1) SHELF ÀMERICAN CONCRETE INSTITUTE ACT ACOUSTICAL CEILING TILE AFF ABOVE FINISH FLOOR AFG ABOVE FINISH GRADE AHU AIR HANDLING UNIT ALUM. ALUMINUM ANTE MERIDEN ARCH. ARCHITECTURAL ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS BASE FLOOD ELEVATION BOTTOM OF B.O. CJ **CONTROL JOINT** CAB. CABINET CLG CEILING CMU **CONCRETE MASONRY UNIT** CO CLEANOUT CONC. CONCRETE CONT. CONTINUOUS COMMON PATH OF EXIT TRAVEL CPET **COLD WATER** CW DOUBLE DOOR DWG. DRAWING DRAIN/ WASTE/ VENT DOWNSPOUT

DWV ELECTRICAL CONTRACTOR **EXPANSION JOINT** ELECT. **ELECTRICAL** ELEV. **ELEVATION** ETC. E.T.R. **ETCETERA** EXISTING TO REMAIN **EWC ELECTRIC WATER COOLER** EXIST. **EXISTING** EXT. **EXTERIOR** FBGLS. **FIBERGLASS** FCP FIBER CEMENT PANEL FD FLOOR DRAIN FINISH FLOOR FEC FIRE EXTINGUISHER CABINET **FALSE JOINT** FLOOR GENERAL CONTRACTOR GAUGE GALV. GALVANIZED GENERAL GEN GANG STUD GWB GYPSUM WALL BOARD HANDICAPPED **HDWR** HARDWARE **HOLLOW METAL** HORIZ. HORIZONTAL

HEAT PUMP **ICEMAKER** INSUL. INSULATION INTERIOR **KILOWATT** LOCS. LOCATIONS MAX. MAXIMUM MBT MARBLE THRESHOLD MECHANICAL CONTRACTOR MCJ MASONRY CONTROL JOINT MEJ MASONRY EXPANSION JOINT MECH. MECHANICAL

MFR. MANUFACTURER MINIMUM MIN. METAL THRESHOLD MTL. METAL NORTH CAROLINA STATE BUILDING CODE NCSBC N.I.C. NOT IN CONTRACT

NUMBER NO. NOM. NOMINAL O.C. ON CENTER O.D. OVERFLOW DRAIN/OUTSIDE DIAMETER

O.H. OPPOSITE HAND OPNG. OPENING O/S OUTSIDE OTB OPEN TO BELOW PLUMBING CONTRACTOR

PHASE PANEL JOINT ΡJ POINT LOAD P-LAM PLASTIC LAMINATE PLUMBING, MECHANICAL, & ELECTRICAL PME

PUSH PAD PSF POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PSI PARALLEL STRAND LUMBER PSL P.T. PRESSURE TREATED PNTD PAINTED P.W. / PWD PLYWOOD

REINFORCED CONCRETE RCP REFLECTED CEILING PLAN **ROOF DRAIN** REINF REINFORCED OR REINFORCING REQ'D REQUIRED

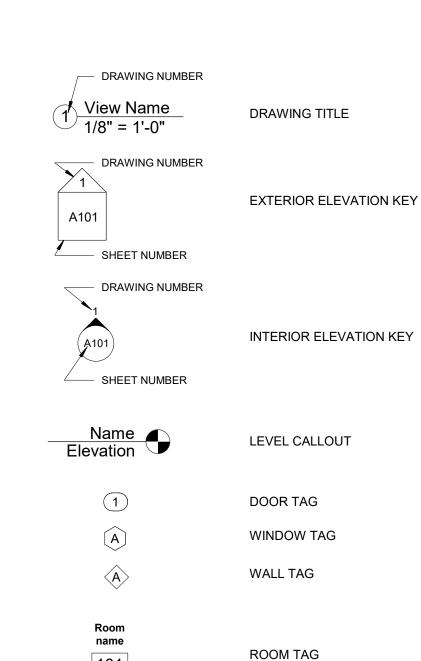
ROOF LEADER RUBBER RUB

SAN SANITARY SQUARE FOOT OR SQUARE FEET SIM SIMILAR

SOUTHERN PINE SPF SPRUCE/ PINE/ FIR STAINLESS STEEL STOR STOREFRONT STL. STEEL TD TRAVEL DISTANCE TME TO MATCH EXISTING T.O. TOP OF T.O.P. TOP OF PLATE

TRD. TREAD TYP. **TYPICAL** U.N.O. UNLESS NOTED OTHERWISE VOLT/ VOLTAGE VCT VERT. VINYL COMPOSITE TILE VERTICAL VERIFY IN FIELD WITH WIRE GLASS WGL WOOD

DRAWING SYMBOLS



DIMENSION

SECTION KEY

SIM A101

(FACE OF STUD U.N.O.)

ENLARGED PLAN OR

DETAIL KEY

DRAWING INDEX

Drawing Index								
Sheet								
Number	Sheet Name							
A001	Cover Sheet							
A002	Appendix B							
A101	Floor Plans & Sections							
PM1.1	Plumbing & Mechanical							
E0.1	Electrical Notes							
E1.1	Electrical Plans							

VICINITY PLAN

CAHOON & KASTEN ARCHITECTS 118 W. WOODHILL DRIVE NAGS HEAD, NC 27959 252.441.0271 252.441.8724

PLMB., MECH., & ELEC. ENG.

ENGINEERING SOURCE 252.439.0338 252.439.0462

STRUCTURAL ENGINEER

KITTY HAWK ENGINEERING

STEWART ELEVATOR CONSULTING, LLC 1 LAKEVIEW DR. WHISPERING PINES, NC 28327

OWNER

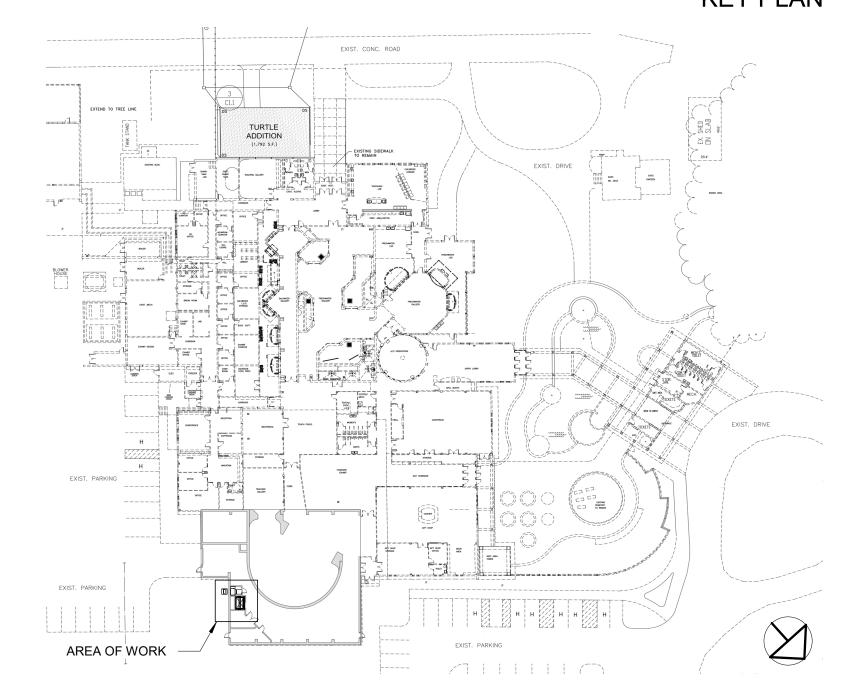
NCDENR - NC AQUARIUMS 3125 POPLARWOOD COURT, SUITE 160 RALEIGH, NC 27604 800.832.3474 919.981.5224

SITE -

SITE MAP



KEY PLAN



PROJECT TEAM

PROJECT ARCHITECT

102-A2 REGENCY BLVD. GREENVILLE, NC 27834

5306 MULHOLLAND DR. SUMMERVILLE, SC 29485 252.655.1056

ELEVATOR CONSULTANT

910.514.3071

Elev. Reno. at Roanoke Island Aquarium

cahoon+kasten

118 West Woodhill Drive

Nags Head, North Carolina 27959

P.252.441.0271 F.252.441.8724 E. office@obxarchitects.com

Project No: **SCO#22-24684-01A** Location: 374 Airport Rd,

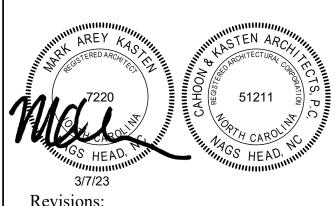
Manteo, NC 27954 Title: Cover Sheet

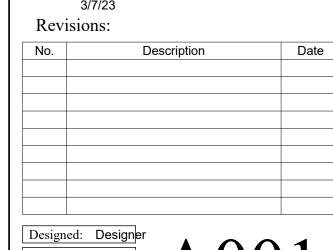
March 7, 2023

As indicated

CD PHASE

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner, contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the





Reviewed: Checker

2018 APPENDIX B

Owner/Authorized Agent: State of North Carolina - Depart. of Natural & Cultural Resources - NC Aquarium

Name of Project: __Elev. Reno. at Roanoke Island Aquarium

Phone #: __919-877-5500_ E-Mail: __James.Mancari@ncaquariums.com

City/County

Manteo, NC 27954

374 Airport Rd,

Code Enforcement Jurisdiction: City ____

Address:

Owned By:

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2

Private

County_

X StateX State

DESIGNER	FIRM		NAME	LIC#	TELEPHONE #	E-MAIL
Architectural	Cahoon + Kas	ten Architects	Ben Cahooon	5413	252.441.0271	ben@obxarchitects.com
Civil						
Electrical Fire Alarm	Engineering So	ource of NC, P.A.	Wilson Pou	021993	252.439.0338	wilson@engrsource.com
Plumbing	Engineering So	ource of NC, P.A	. Wilson Pou	021993	252.439.0338	wilson@engrsource.com
Mechanical	Engineering So	ource of NC, P.A		021993	252.439.0338	wilson@engrsource.com
Sprinkler-Standpipe	e					
Structural Retaining Walls >5	'h					
Other						
AAAA NG BUUL BUNG	C CODE			1		
2018 NC BUILDING	G CODE:		w Building ll / Core*	Addition	n	t Time Interior Completion
2018 NC EXISTING CONSTRUCTED: RENOVATED:	(date)	CODE:	☐ Pres ☐ Rep ☐ Cha CURRE PROPO	n for poss scriptive air pter 14 ENT OCC	ible additional prix Alteration L Alteration L Alteration L UPANCY(S) (C CUPANCY(S) (evel II Change of Use evel III h. 3):
RISK CATEGORY		Cu	rrent:	_ Prop	osed:	
BASIC BUILDING Construction Type	DATA		II-A	III-A	X IV	□ V-A
(check all that apply)			II-A II-B	III-B	<u> </u>	□ V-A □ V-B
Sprinklers:	No Part	tial x	NFPA 13	NFPA	13R NF	FPA 13D
	No Clas] II	Wet	Dry	
Primary Fire Distri Special Inspections		Yes No		Hazard		Yes
special inspections	Kequii eu.	X NO				res and requirements.
		Grass	Building Area T	able		
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4th Floor					_	
3rd Floor 2nd Floor						
2nd Floor Mezzanine						
1st Floor			58227 SI	=		58227 S
Basement						
Total						58227 S
		Α.	LLOWABLE A	DE A		
Mercantile		∐ I-4	I-3 Condition	1	$\begin{array}{ccc} & 1 & & \downarrow & 2 \\ & 1 & & \hline & & 2 \end{array}$	3 4 5
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DISTANCE FROM

PROPERTY LINES (FEET) (TABLE 705.8)

PROTECTION

	1	albr o	ROTECTION	REUIIIDEA	TENTS		
BUILDING ELEMENT	FIRE		ROTECTION RATING	DETAIL#	DESIGN#	SHEET#	SHEET#
	SEPARATION DISTANCE (FEET)	REQ'D		AND SHEET#	FOR RATED ASSEMBLY	FOR RATED PENETRATION	FOR RATED JOINTS
Structural frame,	(1221)		TEB COTTON)		TIBBENIEE	12:\2111111	
including columns,		0					
girders, & trusses Bearing walls							
Exterior							
North		2					
East		2					
West		2					
South		2					
Interior Nonbearing walls and partitions		0					
Exterior walls North East							
West							
South							
Interior walls and partition	ons	0					
Including supporting		0					
beams and joists							
Floor Ceiling Assembly		0					
Columns Supporting Floors		0					
Roof Construction, including supporting beams and joists	_	0					
Roof Ceiling Assembly		0					
Columns Supporting Roof		0					
Shafts Enclosures - Exit							
Shafts Enclosures - Other Corridor Separation							
Occupancy/ Fire Barrier Sep	paration						
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Sleeping Unit Separation Incidental Use Separation							
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Sleeping Unit Separation Incidental Use Separation	M REQUIREMI	ENTS No	X Yes				
Sleeping Unit Separation Incidental Use Separation Indicate section number per LIFE SAFETY SYSTE Emergency Lighting: Exit Signs:	M REQUIREMI	No No	X Yes				
Sleeping Unit Separation Incidental Use Separation Indicate section number per LIFE SAFETY SYSTE Emergency Lighting: Exit Signs: Fire Alarm:	M REQUIREMI	No No No	X Yes X Yes	Portial			
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Sleeping Unit Separation Incidental Use Separation Indicate section number per LIFE SAFETY SYSTE Emergency Lighting: Exit Signs: Emoke Detection System Carbon Monoxide Detection LIFE SAFETY PLAN I Life Safety Plan Sheet #: Fire and/or smoke Assumed and real Exterior wall oper Occupancy Use for	M REQUIREMI as: crion: rated wall location property line location	No No No No TS ons (Chations (ippect to	X Yes X Yes X Yes X Yes X Yes apter 7) if not on the sit distance to ass	te plan) umed property)	
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PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHA, etc., describe below)

WATERCLOSETS URINALS LAVATORIES SHOWERS DRINKING FOUNTAINS

MALE FEMALE UNISEX /TUBS REGULAR ACCESSIBLE

TOTAL

EXIST'G

REQ'D

SPACE NEW

ON PLANS

(%)

AREA

(%)

MALE FEMALE UNISEX

Ground Snow Load:

SEISMIC DESIGN CATEGORY:

Provide the following Seismic Design Parameters:

Data Source:

Architectural, Mechanical, Components anchored?

LATERAL DESIGN CONTROL: Earthquake

Field Test (provide copy of test report)

Bearing wall

Moment Frame

Building Frame

Occupancy Category (Table 1604.5)

Basic structural system (check one)

Spectral Response Acceleration

Site Classification (ASCE-7)

Analysis Procedure:

SOIL BEARING CAPACITIES:

Presumptive Bearing capacity

Pile size, type, and capacity

Wind Load:

Basic Wind Speed

Exposure Category

Field Test

Simplified

_____ mph (ASCE-7)

___ Equivalent Lateral Force

Yes No

Wind

Dynamic

ENERGY SUMMARY	MECHANICAL SUMMARY							
ENERGY REQUIREMENTS:	MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT							
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.	Thermal Zone winter dry bulb:							
Existing building envelope complies with code: (If checked the remainder of this section is not applicable.)	summer dry bulb:							
Exempt Building: Climate Zone: A 4A 5A Method of Compliance:	Interior design conditions winter dry bulb: summer dry bulb: relative humidity:							
Energy Code Performance Prescriptive ASHRAE 90.1 Performance Prescriptive Other Performance (specify source)	Building heating load: Building cooling load:							
THERMAL ENVELOPE (Prescriptive method only) Roof/ceiling Assembly (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Skylights in each assembly: U-Value of skylights: total s.f. of skylights in each assembly: Exterior Walls (each assembly) Description of assembly: U-Value of total assembly:	Mechanical Spacing Conditioning System Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Size category. If oversized, state reason.: Chiller Size category. If oversized, state reason.: List equipment efficiencies:							
R-Value of insulation: Openings (windows or doors with glazing)	ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive Performance Lighting Schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total wattage specified vs. allowe total exterior wattage specified vs. allowe Additional Efficiency Package Options							
Floors slab on grade Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: Slab heated:	(When using the 2018 NCECC; not required for ASHRAE 90.1) C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating							
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Cahoon+kasten
A R C H I T E C T S

118 West Woodhill Drive
Nags Head, North Carolina 27959
P.252.441.0271 F.252.441.8724
E. office@obxarchitects.com

Project: Elev. Reno. at Roanoke Island Aquarium

Project No: SCO#22-24684-01A

Location: 374 Airport Rd, Manteo, NC 27954

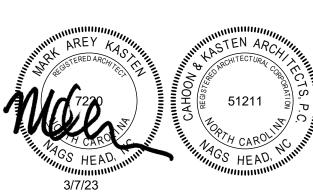
Title: Appendix B

Date: March 7, 2023

Scale:

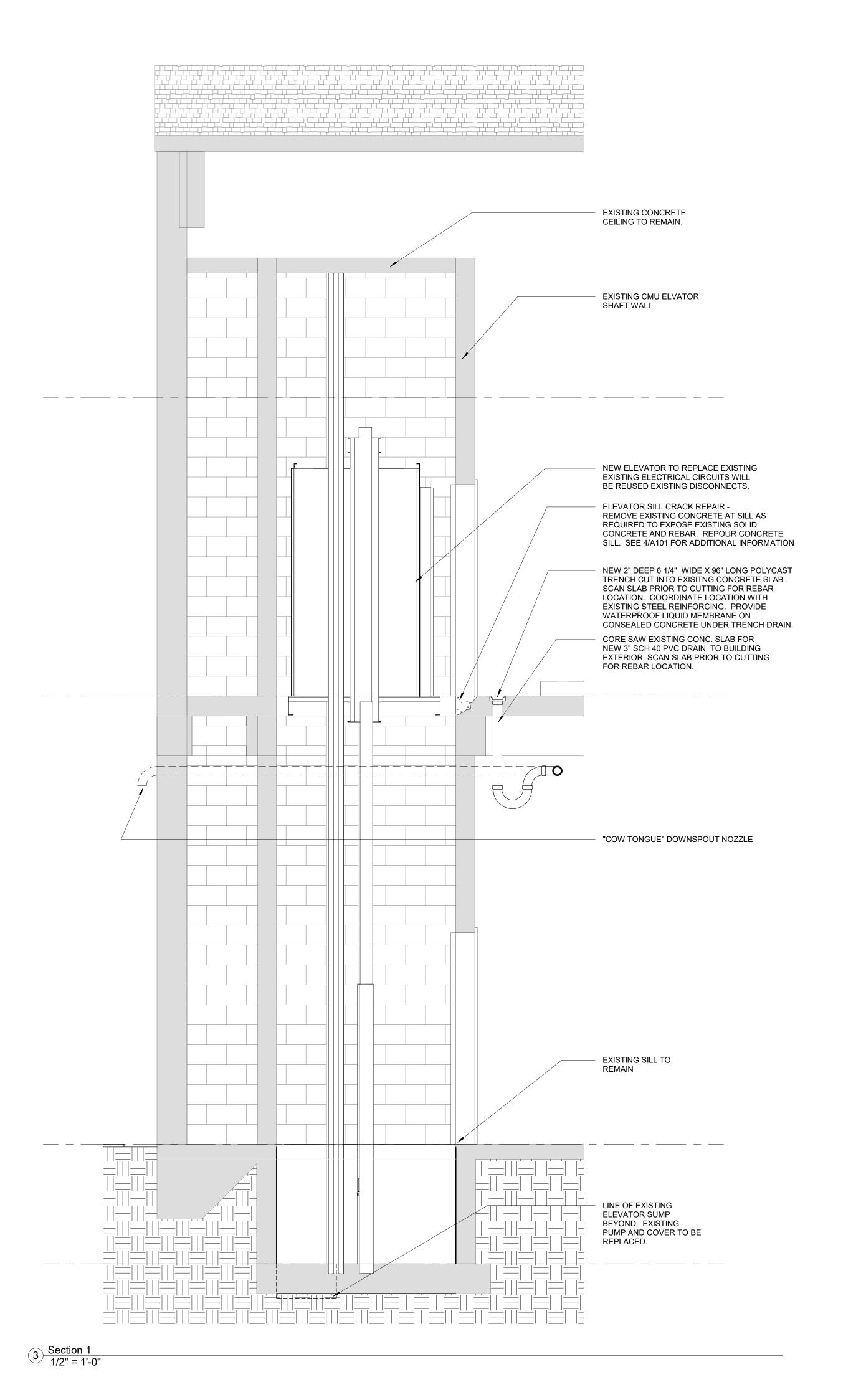
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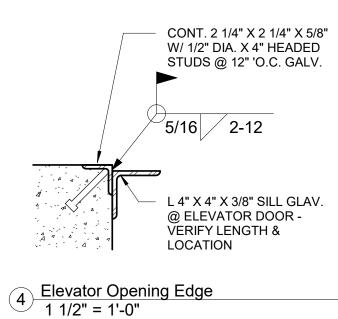
The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner, contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the

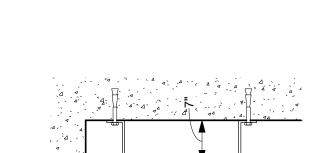


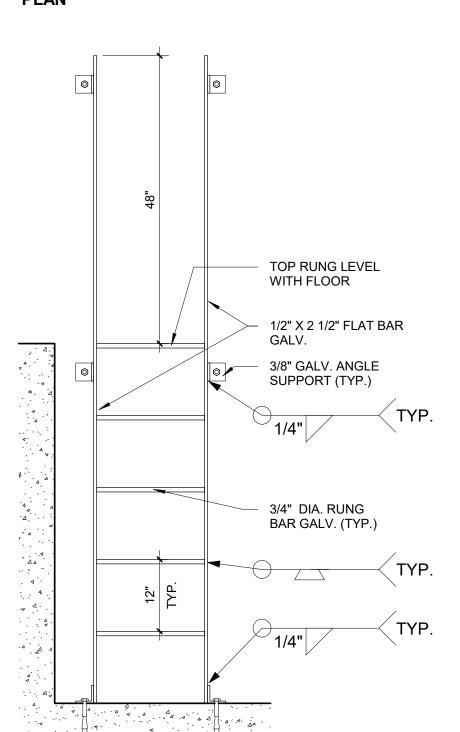
	7/23	
Revision	s:	
No.	Description	Date

Designed: Designer
Drawn: Author
Reviewed: Checker









ELEVATION

Elevator Pit Ladder 3/4" = 1'-0"

ELEVATOR NOTES:

ALL EXISTING EQUIPMENT WILL BE DEMOLISHED INCLUDING BUT NOT LIMITED TO:

- GUIDE RAILS
- 2. JACK ASSEMBLY
- 3. PIT BUFFERS AND SUPPORTS 4. OIL SUPPLY LINE & FITTINGS

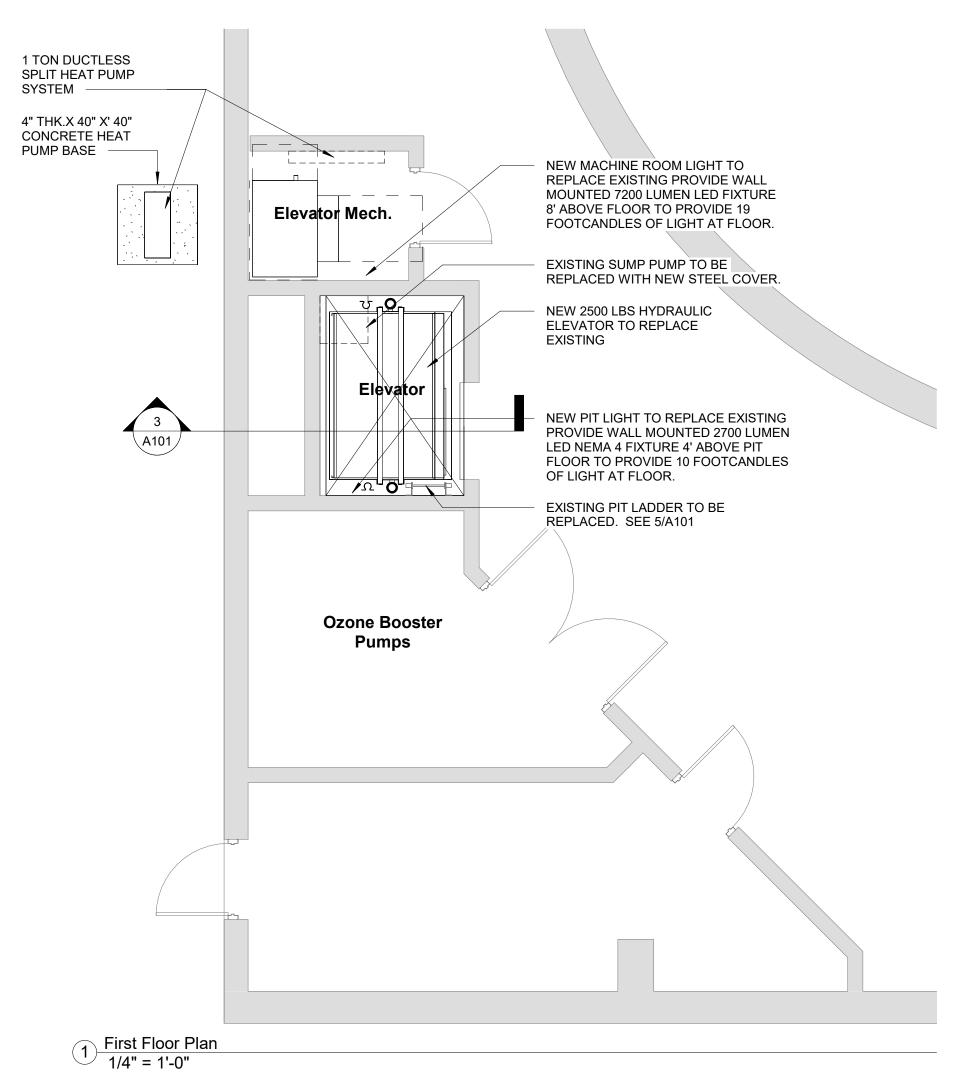
CONDITIONS DICTATE OTHERWISE.

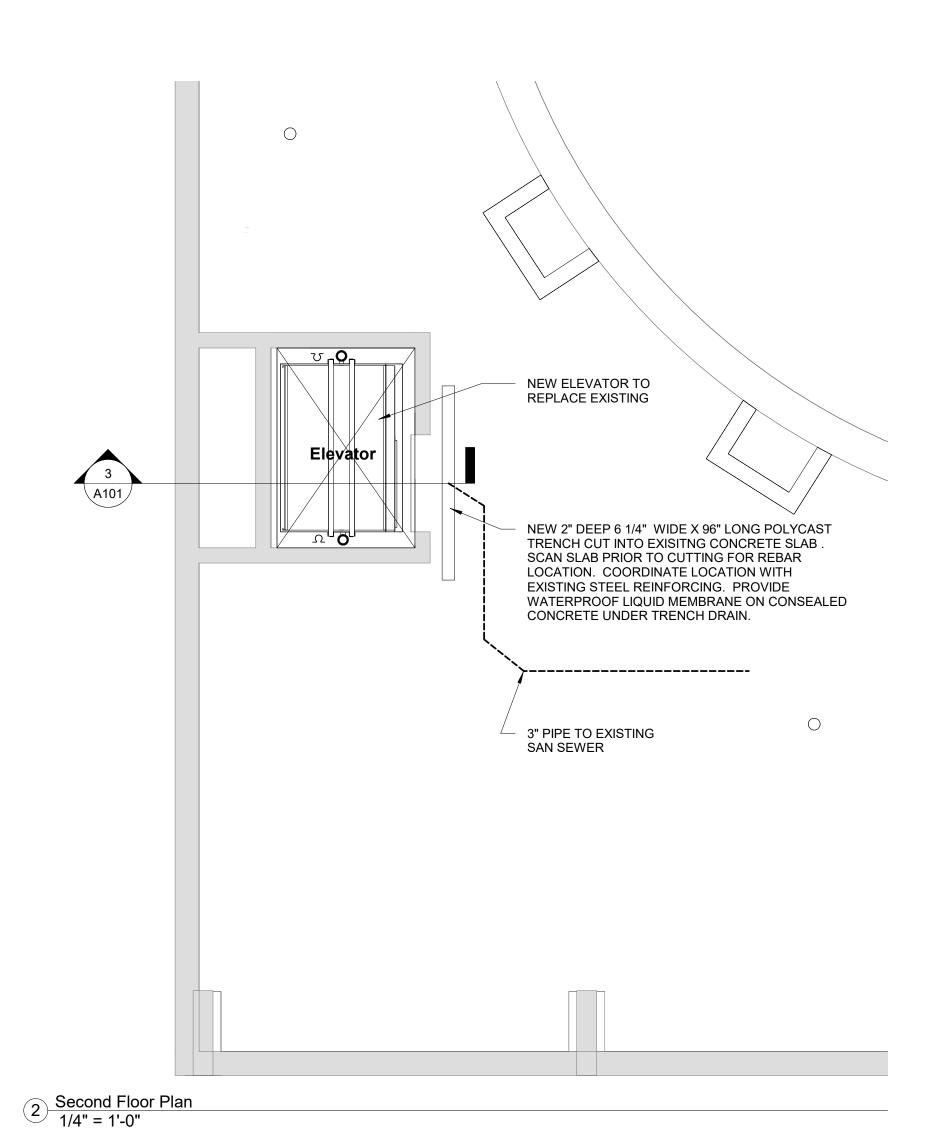
BE #316 STAINLESS STEEL.

- 5. SUMP PUMP, SUMP PUMP GRATING, & SUMP PUMP PLUMBING 6. HOISTWAY CONDUIT WIRING AND RELATED FIXTURES/EQUIPMENT 7. TRAVEL CABLES AND JUNCTION BOXES.
- 8. CAR SLING. CAB.
- 10. DOOR OPERATOR
- 11. HOISTWAY FASCIA. 12. HOISTWAY DOORS, HANGERS, GUIDES, STRUT ANGLES, AND
- RELATED EQUIPMENT 13. CAR DOOR AND DOOR PROTECTION DEVICE.
- 14. ALL HOISTWAY DOOR ENTRANCE FRAMES. 15. PATCHWORK AROUND ENTRANCES FRAMES/PATCHWORK INSIDE

THE HOISTWAY.

- 1. WHERE REQUIREMENTS FOR EQUIPMENT OPERATION ALLOW, # 316 STAINLESS IS TO BE USED 2. WHERE REQUIREMENTS FOR EQUIPMENT OPERATION ALLOW, ALLUMINUM TO BE USED.
- 3. ALL ELEVATOR MECHANICAL DEVICES ARE TO BE NEMA 4 RATED. 4. ALL BOXES, FIXTURES IN THE HOISTWAY, CAR TOP, PIT ARE TO BE
- NEMA 4 RATED 5. ALL PIT LIGHTING AND FIXTURES ARE TO BE NEMA 4 RATED. 6. FLEXIBLE LIQUID TIGHT CONDUIT IS TO BE USED UNLESS
- 7. PROVIDE TWO (2) COATS OF ASTMB115 RATED PRIMER,, TWO (2) COATS ASTMB117 PAINT TO ALL STEEL SURFACES IN THE HOISTWAY. THIS IS INCLUDING BUT NOT LIMITED TO HOISTWAY BEAMS, ANGLES, CHANNELS. AND ALL STEEL ELEVATOR COMPONENTS. 8. ALL FASTENING HARDWARE TO BE USED FOR INSTALLATION IS TO





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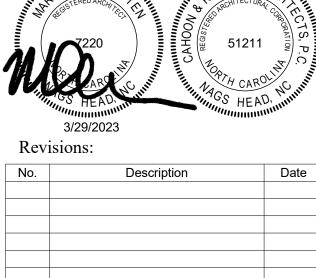
118 West Woodhill Drive Nags Head, North Carolina 27959 P.252.441.0271 F.252.441.8724 E. office@obxarchitects.com

Project: Elev. Reno. at Roanoke **Island Aquarium** Project No: **SCO#22-24684-01A** Location: 374 Airport Rd, Manteo, NC 27954 Floor Plans & Sections March 7, 2023

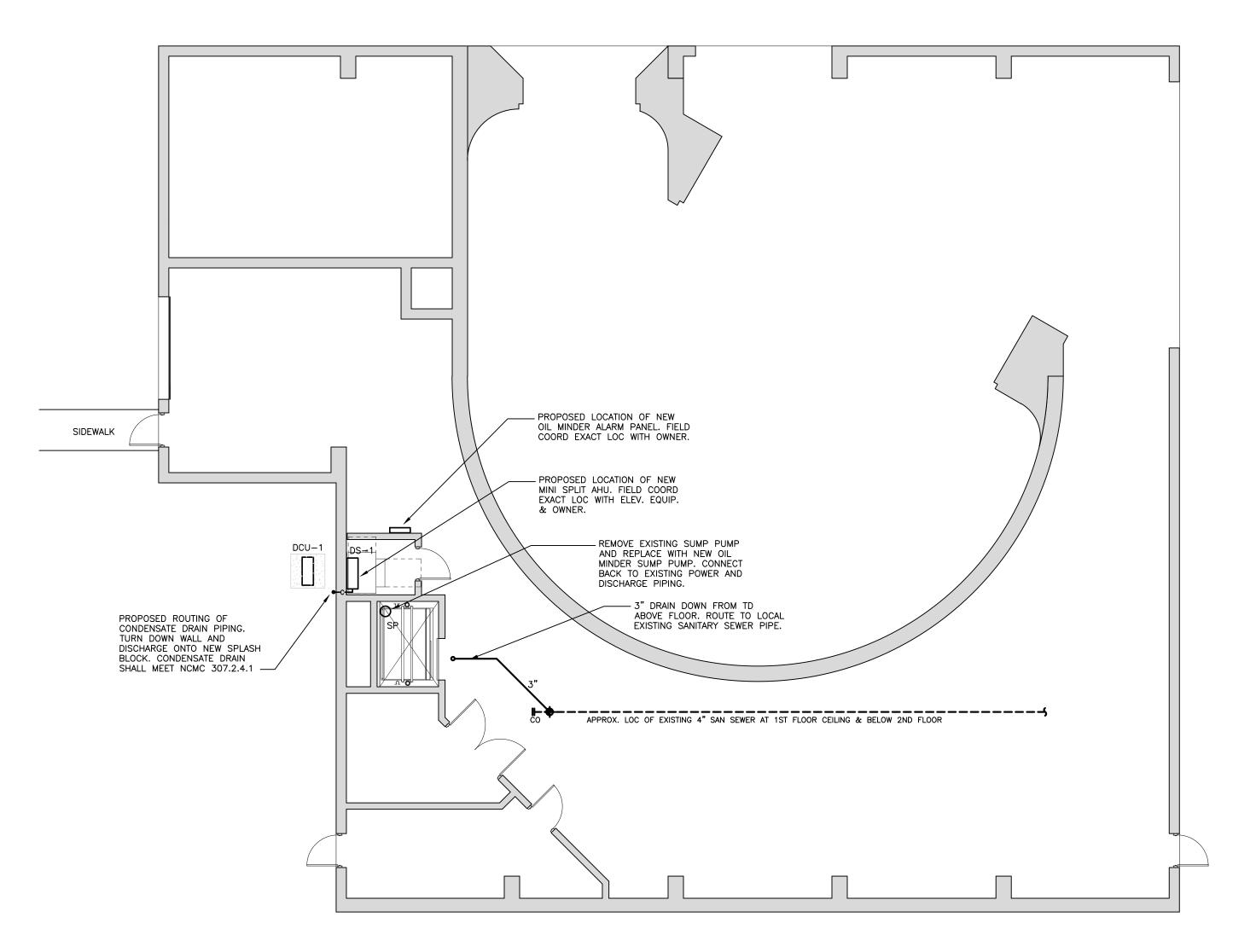
As indicated

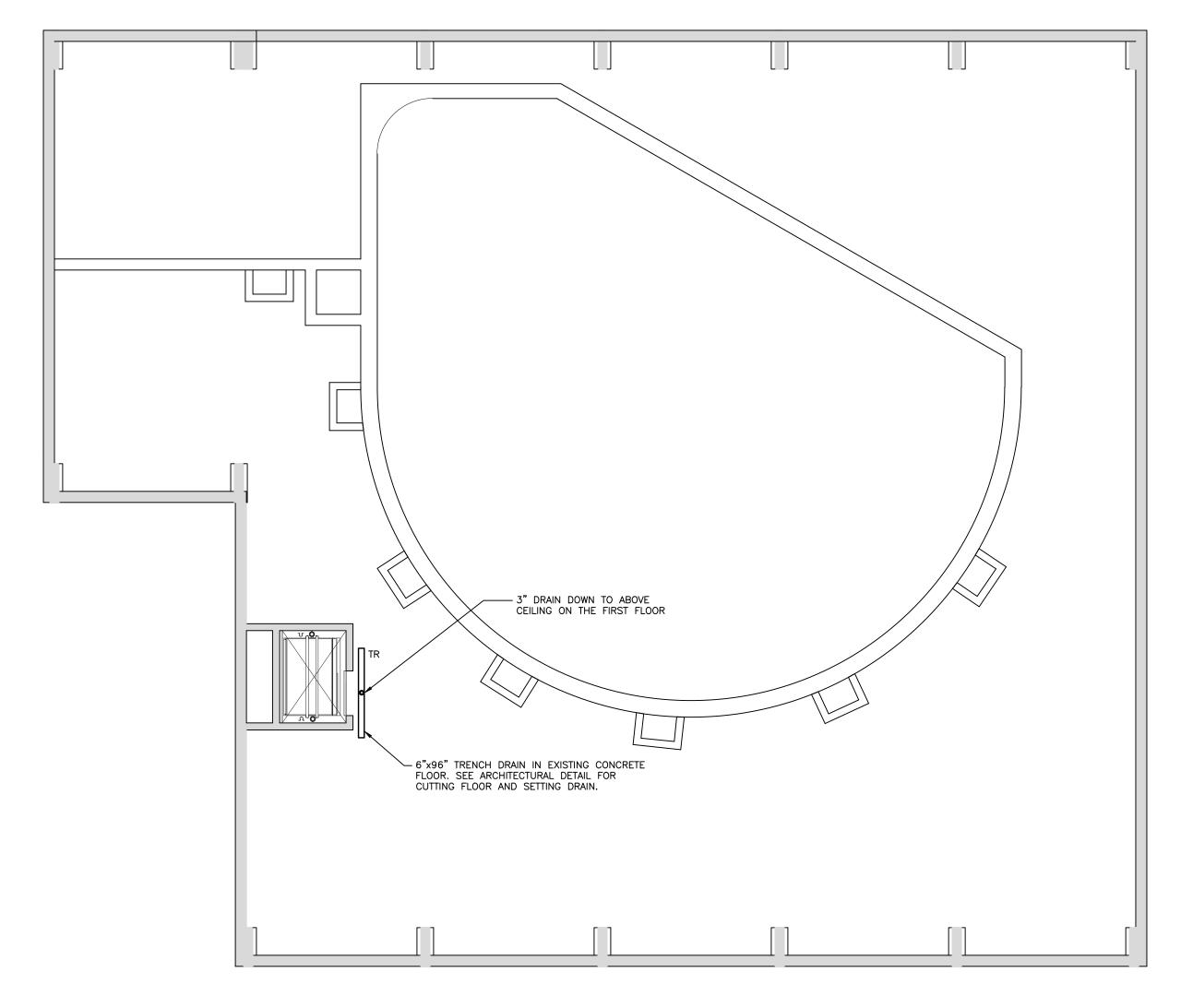
CD PHASE

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner, contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the



Reviewed: Checker





2ND FLR PLMB & MECH PLAN

1ST FLR PLMB & MECH PLAN

PLUMBING GENERAL NOTES:

1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL AUTHORITY HAVING JURISDICITION.

2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, TEES, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.

3. THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.

4. THE CONTRACTOR SHALL OBTAIN AND PAY AAY FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC. THAT MAY REQUIRED FOR A STATE CONSTRUCTION PROJECT. ENGINEER OF RECORD IS THE AUTHORITY HAVING JURISDICTION.

5. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.

6. ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.

7. ALL WASTE AND VENT PIPING SHALL BE CAST IRON PIPE. PROVIDE CASKETED HUB & SPIGOT PIPE FOR WASTE PIPING AND HUBLESS PIPE WITH STAINLESS STEEL BANDS FOR VENT PIPING TO CONFORM TO SCO STANDARDS.

8. ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL.

9. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS RECOMMENDATIONS.

10. ALL PIPING PENETRATIONS THRU NEW AND EXISTING FLOORS/WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING WALL.

11. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.

12. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPING WITH ALL STRUCTURAL FOUNDATIONS, P.C. SHALL COORDINATE ALL UNDER SLAB PLUMBING WITH ELEVATION INVERTS WITH THE SITE UTILITY INVERTS.

13. METAL ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.

	PLUMBING FIXTURE SCHEDULE										
ITEM	DESCRIPTION	FINISH	COLD	НОТ	VENT	WASTE	ADA				
TD	TRENCH DRAIN 4" WIDE WITH 2" BOTTOM RADIUS. APPROXIMATELY 96" IN LENGTH AND A MINIMUM	CONCRETE			2"	4"					
	OF 3.5" DEEP TO BOTTOM OF TRENCH FROM TOP OF FINISHED FLOOR PROVIDE WITH REMOVEABLE CAST IRON OR										
	STEEL GRATE ALONG ENTIRE LENGTH OF TRENCH CAPABLE OF SUPPORTING HEAVY WHEEL TRAFFIC										
SP	SUMP PUMP- ZOELLER OIL GUARD SYSTEM WITH PUMP MODEL NO. FM2809 (FLOAT OPERATED, SUBMERSIBLE)	CAST FINISH.				1-1/2"					
	TEMPERATURE TO 130°. NON-CLOGGING VORTEX IMPELLAR DESIGN.										
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS).										

*MODEL NUMBERS ARE PROVIDED TO ESTABLISH A LEVEL OF QUALITY. EQUAL QUALITY PRODUCTS ARE ACCEPTABLE.

					DUCT	TLESS SF	PLIT-SYSTEM SCH	HEDULE					
		SUF	PPLY FAN				HEAT PU	COOLING	HEATING				
											MAX.	MAX.	EFFICIENCY
MARK	CFM	MANUF./MODEL	VOLT/PH	MCA	МОСР	MARK	MANUF./MODEL	VOLT/PH	MCA	МОСР	TC (BTUH)	TC (BTUH)	SEER
DS-1	200	MITSUBISHI/ MSZ-GL-09	_	0.1	_	DCU-1	MITSUBISHI/ LS-090	208/1	16.0	25	9,000	_	18

- 1. HEATING AND COOLING CAPACITIES ARE MINIMUM ACCEPTABLE VALUES 2. PROVIDE WITH FILTERS AND FILTER FRAMES.
- 3. PROVIDE WITH SINGLE POINT POWER CONNECTION & "LOW-AMBIENT" KIT.
 4. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH E.C. FUSES REQUIRED FOR EQUIPMENT PURCHASED.
- 5. AMP RATINGS GIVEN ARE MAXIMUM VALUES.
 6. BASIS OF DESIGN IS MITSUBISHI, EQUIPMENT BY DAIKIN, TRANE, & CARRIER ARE CONSIDERED EQUALS.

cahoon+kasten

A R C H I T E C T S

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Project No: SCO#22-24684-01

ES22056

Location: 374 Airport Rd,
Manteo, NC 27954

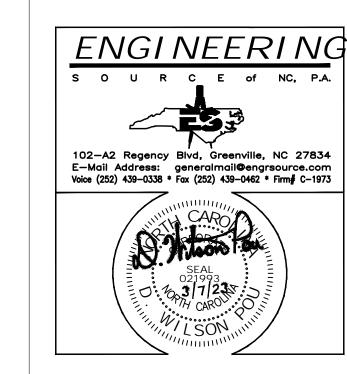
March 07, 2023

Title: PLMB & MECH PLANS

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shall in no event cause or allow a reduction in the fees

otherwise due designer for services provided on the



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Designed: DWP

Drawn: DWP

Reviewed: DWP

Cad File:

ELECTRICAL NOTES:

- * "NEC" IS DEFINED AS BEING THE CURRENT NFPA-70 THAT HAS BEEN ADOPTED BY THE NC CODE COUNCIL AND THE NC DEPT OF INSURANCE.
- 1. DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL PLANS.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO SHOW MINOR DETAILS AND EXACT LOCATIONS. DESIGN ADJUSTMENTS SHALL BE ANTICIPATED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

3. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE CURRENT NEC/NFPA 70. CONTRACTOR SHALL NOTIFY ENGINEER REGARDING ANY CODE DISCREPANCIES SHOWN ON PLAN. THE ENGINEER OF RECORD AND THE OFFICE OF STATE CONSTRUCTION ARE THE AUTHORITIES HAVING JURISDICTION. SCHEDULING OF ALL INSPECTIONS WITH THE NC-DOI ELECTRICAL INSPECTOR FOR THIS AREA IS THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. INSPECTIONS MAY ONLY BE SCHEDULED ON WEEKDAYS, MONDAY THRU FRIDAY, UNLESS APPROVED BY SCO PRIOR TO SCHEDULING.

- 4. CONTRACTOR SHALL INSTALL, GROUND AND BOND SYSTEM PER THE NEC WITH ALL NC MODIFICATIONS.
- 5. MINIMUM WIRE SIZE SHALL BE #12 AWG., MINIMUM CONDUIT SIZE SHALL BE 3/4" REGARDLESS OF NEC OR SCO GUIDELINES ALLOWANCES FOR SMALLER CONDUIT.
- 6. ELECTRICAL CONTRACTOR SHALL PROVIDE HACR RATED CIRCUIT BREAKERS ON ALL HVAC EQUIPMENT.

7. CONDUCTORS SHALL BE COPPER TYPE THHN, THWN, OR THW. BRANCH CIRCUIT CONDUCTOR SHALL NOT BE SMALLER THAN No. 12 AWG., EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. HOME RUNS ORIGINATING MORE THAN 50' AT 120V FROM PANEL LOCATION SHALL BE No. 10 AWG MINIMUM SIZE. WIRES No. 10 AWG AND SMALLER SHALL BE SOLID; WIRES No. 8 AWG AND LARGER SHALL BE STRANDED. PROVISIONS OF SECTION 210-5 OF THE NEC SHALL BE STRICTLY COMPLIED WITH AND BE CONSISTENT THROUGHOUT ENTIRE SYSTEM.

8. ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250-122. HASHMARK FOR GROUNDING CONDUCTOR IS NOT INDICATED ON THESE DRAWINGS. RACEWAY SHALL NOT BE USED AS EQUIPMENT GROUND.

9. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT SHALL HAVE A PULL WIRE.

10. ALL CONDUIT FITTINGS SHALL BE COMPRESSION TYPE WITH INSULATED THROATS. ALL EXTERIOR CONDUIT FITTINGS SHALL BE LISTED FOR USE IN WET LOCATIONS PER NEC ARTICLE 314.

11. SERVICE ENTRANCE CONDUCTORS SHALL BE IN CONDUIT (RIGID OR PVC). EXTERIOR CONDUIT EXPOSED ABOVE SLAB SHALL BE RIGID. INTERIOR CONDUIT EXPOSED SHALL BE ELECTRICAL METALLIC TUBING (EMT). EMT SHALL BE COLD—ROLLED STEEL TUBING w/A COATING ON THE OUTSIDE AND PROTECTED ON THE INSIDE BY A ZINC, ENAMEL, OR EQUIVALENT CORROSION RESISTANT COATING AND CONFORMING TO THE REQUIREMENTS OF ANSI C 80.3—1996 OR LATER EDITION. ALL UNDERGROUND CONDUIT SHALL BE UL LISTED SCHD 40 PVC CONFORMING TO ARTICLES 352 & 300 OF THE NEC. WHERE SCHD 40 PVC IS INSTALLED BELOW GRADE OR UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., SHALL BE OF RIGID STEEL AND SHALL CONTINUE AS RIGID STEEL TO THE CABINET, EQUIPMENT, ETC. ALL FEEDER AND BRANCH CIRCUITS SHALL BE IN CONDUIT.

- 12. ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER.
- 13. ALL 1P-20A CIRCUITS SHALL BE 2-#12 & 1-#12G IN 3/4"C WITH NO SHARED NEUTRALS, U.N.O.

14. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL VOLUMES OF THE NCSBC, INSPECTORS HAVING JURISDICTION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.

15. EACH PIECE OF ELECTRICAL GEAR, EQUIPMENT, ETC., SHALL BEAR A CERTIFICATION LABEL FROM A THIRD PARTY TESTING AGENCY ACCREDITED BY THE NC BUILDING CODE COUNCIL.

- 16. METAL ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT ELECTRICAL ITEMS.
- 17. COLOR CODE JUNCTION BOXES, CONDUIT, AND INSTALL ENGRAVED PHENOLIC LABELS FOR ELECTRICAL GEAR, DISCONNECTS, ETC. PER SCO ELECTRICAL GUIDELINES. FASTEN LABELS WITH SCREW FASTENERS.

18. E.C. SHALL INSTALL HEAVY DUTY NEMA-1 DISCONNECTS AT ALL INTERIOR LOCATIONS INDICATED AND HEAVY DUTY NEMA-3R DISCONNECTS AT ALL EXTERIOR LOCATIONS INDICATED ON THESE DRAWINGS.

19. VERIFY WITH OWNER LOCATION/TYPE OF ALL FIXTURES, PANEL BOXES, OUTLET PLACEMENT, ETC. BY HOLDING AN ELECTRICAL WALK THROUGH ON THE BUILDING SITE ONCE FRAMING IS COMPLETED.

20. ELECTRICAL BOXES INSTALLED IN U.L. RATED WALLS SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY OTHER ELECTRICAL BOX IN THAT WALL.

- 21. LIGHTING SWITCHES, RECEPTACLES AND/OR DATA OUTLETS SHALL NOT BE MOUNTED BACK TO BACK IN ANY WALL.
- 22. CONTRACTOR SHALL PERFORM GROUNDING TEST AS REQUIRED BY SCO AND NC-DOI REQUIREMENTS.

23. E.C. SHALL INSTALL COMPLY WITH ANSI A117.1 FOR OUTLET AND CONTROL SWITCH MOUNTING HEIGHTS FOR ADA ACCESSIBILITY.

24. E.C. SHALL BE RESPONSIBLE FOR ALL LINE SIDE AND LOAD SIDE WIRING ON ALL EQUIPMENT REQUIRING ELECTRICAL POWER. EXTERNALLY MOUNTED DISCONNECT SWITCHES AND ALL REQUIRED FUSES SHALL BE FURNISHED BY THE CONTRACTOR PROVIDING THE EQUIPMENT. E.C. SHALL BE RESPONSIBLE FOR INSTALLING EXTERNALLY MOUNTED DISCONNECT SWITCHES AND PROVIDING LOAD SIDE WIRING AND CONDUIT TO EQUIPMENT. ALL FINAL CONNECTIONS TO EQUIPMENT SHALL BE DONE BY THE CONTRACTOR PROVIDING THE EQUIPMENT. SEE "ELECTRICAL CONNECTION DETAIL".

- 25. "PROVIDE" IS DEFINED AS FURNISH AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- 26. THE TERM "VERIFY" RELATIVE TO THESE DRAWINGS SHALL BE DEFINED AS OBTAINING EQUIPMENT INSTALLATION INSTRUCTIONS

FROM EQUIPMENT SUPPLIER OR OBTAINED OWNER'S REPRESENTATIVE'S APPROVAL.

27. E.C. IS RESPONSIBLE FOR DEMOLITION OF EXISTING LIGHT FIXTURES THAT ARE INDICATED TO BE REPLACED. E.C. SHALL FIELD VERIFY EXISTING SWITCH CIRCUITING AND REWORK SWITCH WIRING TO PROVIDE CONTROL OF LIGHTS AS INDICATED ON PLANS.

28. ALL RECEPTACLES WITHIN 6 FEET OF A SINK, BATHTUB, SHOWER, SUMP, OR THE LIKE SHALL BE GFCI PROTECTED REGARDLESS OF WHETHER THEY ARE INDICATED ON THESE PLANS. E.C. SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXACT DISTANCES AND PROVIDING THE GFCI PROTECTION AS REQUIRED.

LI	GHT FIXTURE S	SCH	ED	ULE	
TYPE	DESCRIPTION	LAMPS	VOLTS	WATTS	B.F.
Α	4' STRIP STYLE ENCLOSED LED LIGHT FIXTURE FOR EXTREME ENVIRONMENTS WITH MEDIUM LUMEN OUTPUT (6,000 LUMENS) AND OPAQUE LENS. PROVIDE COLUMBIA #: LXEM4-40-HL-RFP-E-U OR WILLIAMS #: 96-4-L62/840-PCFR-DRV-UNV OR LITHONIA #: FEM-L48-6000LM-LPPFL-WD-MVOLT-40K-80CRI	LED	MULTI	55W	-

ELECTRICAL LEGEND (REFER TO MOUNTING HEIGHT SCHEDULE FOR MOUNTING HEIGHT INFORMATION) WALL SWITCH, SINGLE POLE, 20 AMP, FLUORESCENT LIGHT FIXTURE, 2x4 FT. 120 V., "SPEC. GRADE" FLUORESCENT LIGHT FIXTURE NIGHT LIGHT WALL SWITCH, DIMMER, 20 AMP, 120 V., \$D "SPEC. GRADE" FLUORESCENT STRIP LIGHT, 8 FT. WALL SWITCH, 3-WAY, 20 AMP, 120 V., "SPEC. GRADE" FLUORESCENT STRIP LIGHT, 4 FT. MANUAL MOTOR STARTER, 20A, 120V FLUORESCENT LIGHT FIXTURE, 1x4 FT. DOUBLE GANG WALL SWITCH, 20 AMP, 120V., FLUORESCENT LIGHT FIXTURE, 2'x2' WALL MOUNTED OCCUPANCY SENSOR CEILING MOUNTED OCCUPANCY SENSOR POLE MOUNTED LIGHT FIXTURE, AS SPECIFIED NON-FUSED DISCONNECT SWITCH, 240V, 30A, U.N.O. FUSED DISCONNECT SWITCH FLUORESCENT LIGHT FIXTURE FUSE DISCONNECT SWITTER

FUSE DISCONNECT FRAME SIZE

FRAME DISCONNECT FRAME SIZE WALL SCONCE OWNER SELECTED PENDANT MOUNTED FIRE ALARM MANUAL PULL STATION EXTERIOR TWO-HEAD LIGHT FIRE ALARM HORN/STROBE EXTERIOR DOOR LIGHT FIRE ALARM STROBE LIGHT AND EXHAUST FAN COMBINATION SMOKE DETECTOR EXHAUST FAN HEAT DETECTOR, CEILING MOUNTED H.I.D. LIGHT FIXTURE, AS SPECIFIED. RECESSED OR SURFACE MOUNTED ROUND FIXTURE DUCT SMOKE DETECTOR FIRE ALARM CONTROL PANEL, FLUSH MOUNTED. RECESSED NIGHT LIGHT GROUND - EXTEND AND CONNECT TO H.I.D. WALL PACK APPROVED GROUND ELECTRICAL PANEL - SURFACE MOUNTED. BOLLARD EXTERIOR LIGHT ELECTRICAL PANEL - FLUSH MOUNTED. EXTERIOR GROUND MOUNTED FLOOD LIGHT UNSWITCHED CIRCUIT, 2#12 & 1 #12 G. ' IN 3/4" C., U.N.O. JUNCTION BOX SWITCHED CIRCUIT TELEPHONE OUTLET WITH COVER SEE DETAIL FOR INSTALLATION INSTRUCTIONS. ?-# PANEL NAME-CIRCUIT # DATA/LAN OUTLET WITH COVER. WEATHER PROOF SEE DETAIL FOR INSTALLATION INSTRUCTIONS EXIT LIGHT GROUND FAULT INTERRUPTER EMERGENCY EXIT LIGHT A.F.F. ABOVE FINISHED FLOOR EMERGENCY LIGHT NIGHT LIGHT WALL MOUNTED UNLESS NOTED OTHERWISE. U.N.O. UNLESS NOTED OTHERWISE DUPLEX RECEPTACLE, 20 AMP, 120 V., ISOLATED GROUND 'SPEC. GRADE" GFI DUPLEX RECEPTACLE, 20 AMP, 120 V., LC LIGHTING CONTACTOR "SPEC. GRADE" EWC ELECTRIC WATER COOLER 220 V. RECEPTACLE, MATCH APPLIANCE PLUG ABOVE COUNTER BC BELOW COUNTER FLUSH MOUNTED FLOOR DUPLEX RECEPTACLE FLUSH MOUNTED FLOOR DATA/LAN OUTLET QUAD RECEPTACLE, 20 AMP, 120 V., "SPEC. GRADE"

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ARCHITECTS

118 West Woodhill Drive
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Project: Elev. Reno. at Roanoke Island Aquarium

Project No: SCO#22-24684-01
ES22056

March 07, 2023

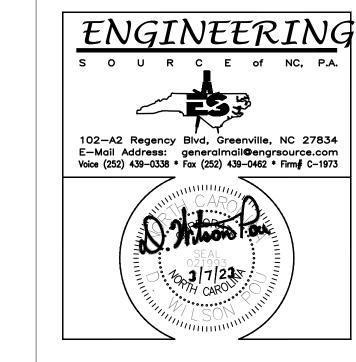
Location: 374 Airport Rd,
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Title: ELECTRICAL PLANS

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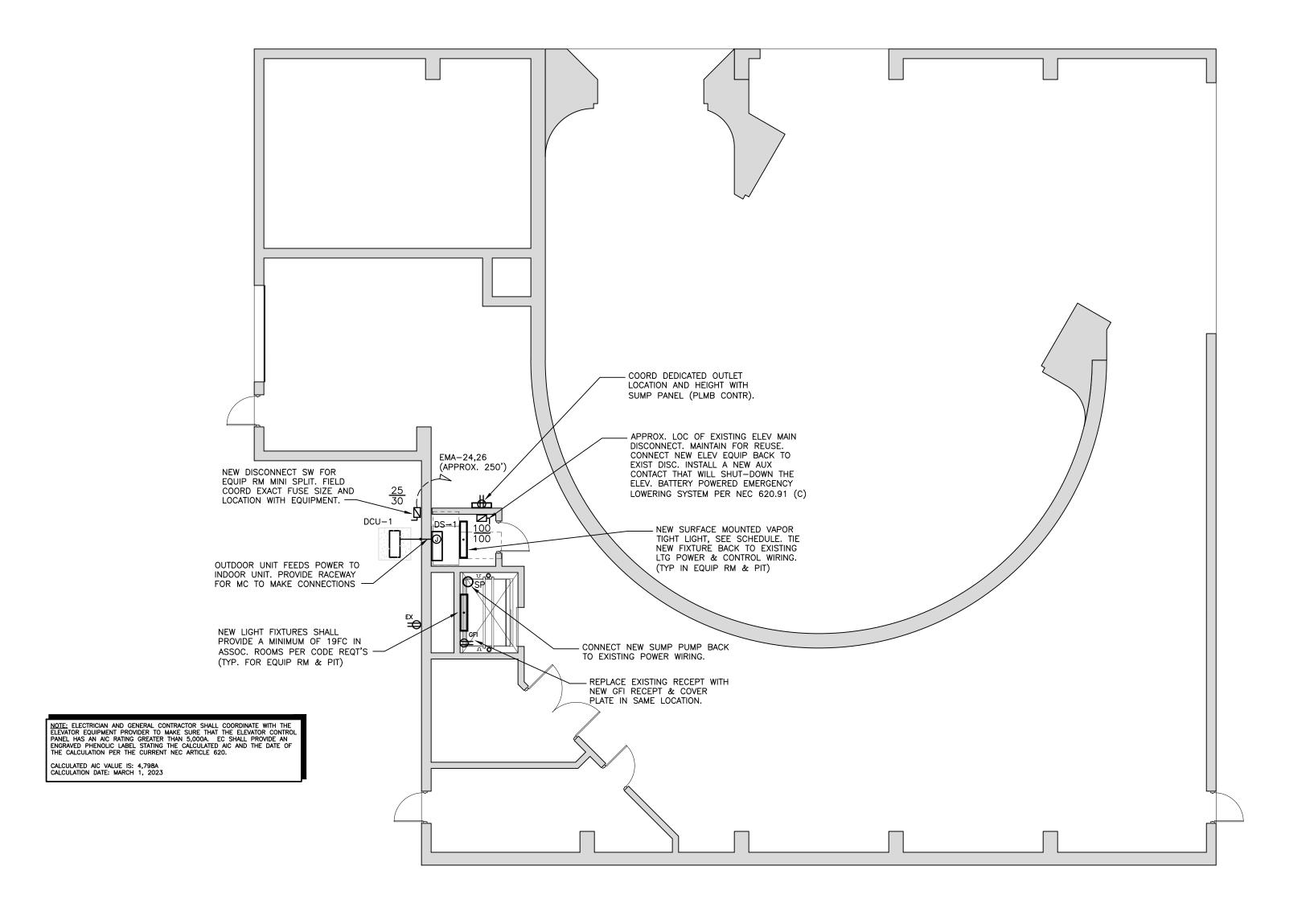
Designed: DWP

Drawn: DWP

Reviewed: DWP

Cad File:

E0.1



1ST FLR ELECTRICAL PLAN

					F	XIS	STI	NG	PA	۱NF	I B	SO/	۱R۲) S	СН	FDI	JI F	= _ '	'FM	1Δ''	!					
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			WIRE	COND				1 No. 10 124 11 10	AD (K				PHAS				AD (K						WIRE	POLE	BKR	CKT
#	TRIP		SIZE	SIZE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	АВ	CLT	G REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	SIZE	SIZE		TRIP	#
1	20	1	12	3/4"	ELEV EQUIP RM LTS	0.2															SPARE	3/4"	12	1	20	2
3	20	1	12	3/4"	ELEV SUMP PUMP							0.5								0.5	GENSET FUEL PUMP	3/4"	12	1	20	4
5	20	1	12	3/4"	ELEV PIT REC		0.2													0.2	GENSET BATT CHARG	3/4"	12	1	20	6
7	20	1	12	3/4"	ELEV CONTROL PNL							0.5								0.5	GENSET CRANKCASE	3/4"	12	2	20	8
9	20	1	12	3/4"	ELEV CAB LTS	0.2														0.5						10
11	20	1	12	3/4"	ELEV EQUIP RM REC		0.2													1.0	CIRC PUMP	3/4"	12	3	20	12
13	20	1	12	3/4"	ELEV PIT LTS	0.2														1.0						14
15	20	1	12	3/4"	BOILER RM LTS	0.2														1.0						16
17	20	1	12	3/4"	BOILER							0.5	T								SPACE					18
19	20	3	12	3/4"	AIR COMP - CONTROLS							1.0									SPACE					20
21												1.0									SPACE					22
23												1.0					1.6				* DCU-1 *	3/4"	8	2	30	24
25					SPACE												1.6									26
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	TING (K	•		!	0.8	0.8	0.4	0.0	0.0	0.0	0.0	4.5		0.0	0.0	0.0	3.2	0.0	0.0	4.7	CONNECTED LOAD (KV.	A):		•	_	3.6
	PTACL		/A):		0.4																DEMAND LOAD (KVA):				1:	3.8
	ORS (K	√A):			0.0						PHAS		5		11.7						CONNECTED LOAD (AN	DO)			0.	7 7
A/C (KVA): ING (K\	//\\·			3.2 0.0						PHAS		<u>4</u> 5	_	32.5 39.2						CONNECTED LOAD (AMDEMAND LOAD (AMPS)					7.7 8.3
	HEN (K)				0.0						r nas		KVA		MPS						DEMINING LOAD (AMPS)				30	0.0
	ELLANI		(KVA):		9.2								1.07													
			,	EW C/B	IN AN EXISTING SPACE	FIEL	D VE	RIFY	HVA	CUNI	T DAT	TA PL	ATE	PRIO	R TO	ORDE	RING	C/B.								

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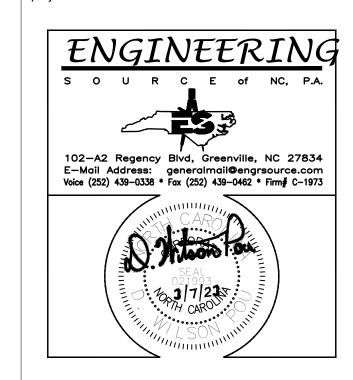
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