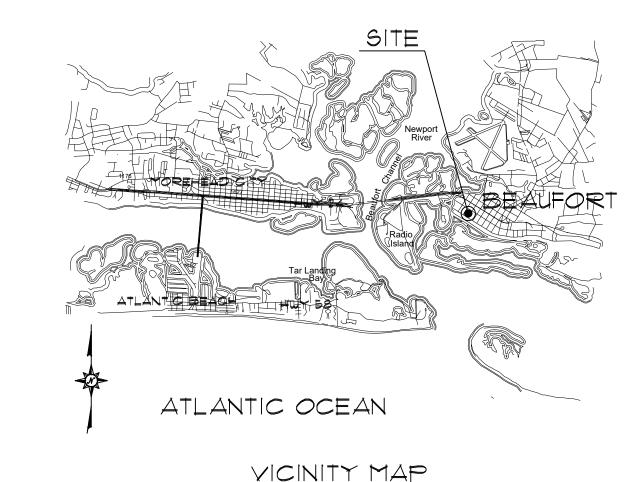
TOILET ROOM RENOVATIONS - PHASE III NORTH CAROLINA MARITIME MUSEUM

SCO#05-07574-02C 315 FRONT STREET BEAUFORT, NORTH CAROLINA 28516





INDEX TO DRAWING

G-1

EX-1

A-2

M-2

COVER SHEET

GENERAL DATA

PLUMBING PLAN

PLUMBING PLAN

HVAC PLAN

EXISTING ENLARGED TOILET

PLUMBING SPECIFICATIONS

SCHEDULES AND RISERS

SCHEDULES AND RISERS

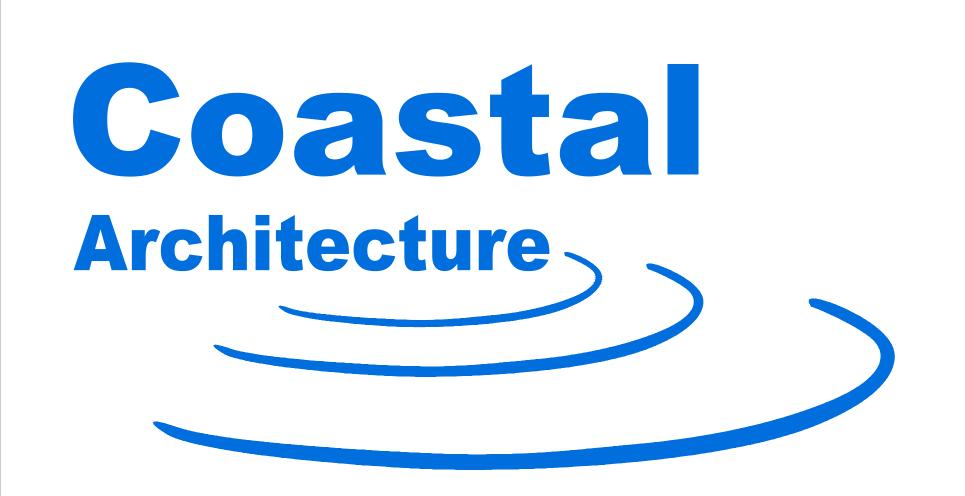
EXISTING ENLARGED TOILET PLAN AND ELEVATIONS

NEW EXTERIOR ELEVATIONS, ROOF PLAN, AND DETAIL

NEW ENLARGED EXTERIOR ELEVATION AND WALL SECTION

NEW ENLARGED TOILET PLAN AND ELEVATIONS

HVAC SCHEDULES AND SPECIFICATIONS



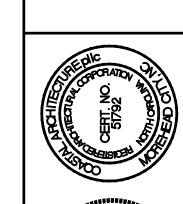
SE OF Coastal Architecture, DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

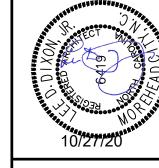
The Drawings, Specifications and other documents prepared by Coastal Architecture, the Designer, for this project are instruments of service for use solely with respect to this project and, unless otherwise provided, the Designer shall be deemed the author of these documents and shall retain all common law, statutory and other reserved rights, including copyright protection. The Owner shall be permitted to retain copies of the Designer's drawings, Specifications, and other documents for information and reference in connection with the Owner's use and occupancy of this project. No portions in part or in whole of the Drawings, Specifications and other documents shall be duplicated or used by the Owner or others for additions to this Project, completion of this Project by others, or on other Projects without written consent by the Designer.



Lee D. Dixon, Jr., Al

4206 Bridges St. Ex Suite C Morehead City, NC





20017

APPENDIX B

2018 BUILDING CODE SUMMARY

FOR ALL COMMERCIAL PROJECTS (EXCEPT ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES)

	_{ect:} NORTH CAROLIN EAUFORT, NORTH C _{ized Agent:} Jos e ph Sch	AROLINA	252) <u>728</u> -7	Zip Co	ode	rencdcr.gov
Owned By:	City/Count			State	<u> </u>	
•	ment Jurisdiction: City			ounty	X State	NC
CONTACT:	JOSEPH SCHWARZER					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL	
Architectural	Coastal Architecture	Lee Dixon	6419	(252) 247-2127	lee@coastal	architecture.ne
Civil	NOT APPLICABLE			()		
Electrical	Burke Design Group	Ben Burke	22Ø38	<u> </u>	_benburke@no	c.rr.com
Fire Alarm	Burke Design Group	Ben Burke	22Ø38	<u> </u>	_benburke@no	c.rr.com
Plumbing	Burke Design Group	Ben Burke	22Ø38	<u> </u>	_benburke@no	c.rr.com
Mechanical	Burke Design Group	Ben Burke	22Ø38	<u> </u>	benburke@no	c.rr.com
Sprinkler-Star	ndpipe NOT APPLICABL	<u> </u>		()		
Structural	NOT APPLICABLE			()		
Retaining Wal	lls > 5 feet High NOT APPL	ICABLE		()		
Other				()		
2018 NC BUI	LDING CODE: New Build	ling Shell/Core	1st	: Time Interior Complet	ions	
	STING BUILDING CODE:	☐ Prescripti			Historic Property	/
(check all that CONSTRUG RENOVATE	ct apply) CTED: (date) ED: (date)	Repair Chapter 1 CURRENT USE(S) (C	Alt Alt Alt Alt And And And And And And And An	teration Level I teration Level II teration Level III tum	Historic Property Change of Use	/ - -
CONSTRUCE RENOVATE OCCUPANCY	capply) CTED: (date) ED: (date) CATEGORY (Table 1604.5): C	Repair Chapter 1 CURRENT USE(S) (C	Alt	teration Level I teration Level II teration Level III tum		-
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CONSTRUCT RENOVATE OCCUPANCY BASIC BUILD Construction (check all that Sprinklers: Standpipes	Apply)	Repair Chapter 1 CURRENT USE(S) (C PROPOSED USE(S) (urrent: II-A II-B NFPA 13	Alt Alt	teration Level I teration Level II teration Level III teration Level	Change of Use	
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CONSTRUCT RENOVATE OCCUPANCY BASIC BUILD Construction (check all that Sprinklers: Standpipes Primary Fire Special Inspection 3rd Floor	CTED: (date) ED: (date) CATEGORY (Table 1604.5): COUNTY CATEGORY (Table 1604.5):	Repair Chapter 1 CURRENT USE(S) (C PROPOSED USE(S) (Urrent: III-A III-B NFPA 13 III IIII Fice Yes GROSS BUILD	Alt Alt Alt Alt Alt Alt Alt Alt	teration Level I teration Level II teration Level III teration Level	Change of Use	
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CONSTRUCT RENOVATE OCCUPANCY BASIC BUILD Construction (check all that Sprinklers: Standpipes Primary Fire Special Inspec	CTED: (date) ED: (date) CATEGORY (Table 1604.5): CONSTRUCTION OF TABLE 1604.5): C	Repair Chapter 1 CURRENT USE(S) (C PROPOSED USE(S) (urrent: II-A II-B NFPA 13 III IIII Fic Yes GROSS BUILD New (sq ft)	Alta Alta Alta Alta Alta Alta Alta Alta	teration Level I teration Level II teration Level III teration Level	Change of Use	

		ALLOV	ABLE AREA		
Primary Occupancy (Classification(s):				
Assembly	A-1	A-2 <i>A</i>	∆-3	☐ A-5	
Business					
Educationa	I 🗌				
Factory	F-1 Moderate	F-2 Low	_		
Hazardous	H-1 Detonate	_H-2 Deflagrate _H-3	Combust H-4 Health	_	
Institutional	☐ I-1	I-2 I-	-3 🔲 I-4		
I-3 Condi	tion 1 2			4	
I-2 Condi					
I-3 Condi	tion12	<u></u> 3 <u></u> 4 <u></u> 5	i		
Mercantile	- ∐ .		_ •\	HANCE	
Residential	= '		R-3 F 4	ζ'	
Storage	S-1 Moderate		lign-pil	ed	
	Parking Garag	eOpenEnclos	Repair	Garage	
Utility and N	//iscellaneous	e Open Enclos	I		
Accessory Occupand	cy Classification(s):	C 7			
ncidental Uses (Table	• • • • •	NO.			
,	is not exempt as No.	separated Use (see ex	ceptions).		
•	er 4 – List Code Section				
	Chapter 5 – List Code				
Mixed Occuupancy:		aration: No separation	Hr. Exception:		
	4)—See below for area		508.4 tory, the area of the occu ble floor area for each us		t the sum
Separated Use (508.	4)—See below for area	calculations for each s	tory, the area of the occu		t the sum
Separated Use (508.0 of the ratios of the actual Select one Actual Are	4)—See below for area	calculations for each see divided by the alloward	tory, the area of the occu ble floor area for each us cupancy B		t the sum
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Separated Use (508. of the ratios of the actual Area Allowable All	A)—See below for area and floor area of each use the analysis of the second sec	Calculations for each see divided by the alloward and a see divided by the	tory, the area of the occupible floor area for each use the floor area floor are	(C) AREA FOR FRONTAGE INCREASE1, 5	A AREA

5. Frontage increase is based on the unsprinklered area value in Table 506.2.

	Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state cost for the standard reference design versus the annual energy cost for the proposed design.
	Existing building envelope complies with code: [(If checked, the remainder of this section is not applicable.)
	Exempt Building: Provide code or statutory reference:
	Climate Zone:
	Method of Compliance:
ı	Energy Code: Performance Prescriptive
ı	ASHSAE 90.1: Performance Prescriptive
ı	Other: Performance (specify source)
	Energy Code: Performance Prescriptive ASHSAE 90.1: Performance Prescriptive Other: Performance (specify source) THERMAL ENVELOPE: (Prescriptive method only) Roof/ceiling Assembly (each assembly) Description of assembly:
ı	Description of assembly:
ı	U-Value of total assembly:
ı	R-Value of insulation:
ı	Skylights in each assembly:
ı	U-Value of kylight: \
ı	total square footage of kylights in each assembly:
ı	Exterior Wals ach assembly)
ı	Description of assembly
ı	U-Value of total assembly:
ı	R-Value of insulation:
١	Openings (windows or doors with glazing)
١	U-Value of assembly:
١	Solar heat gain coefficient:
١	projection factor:

ENERGY SUMMARY

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each

ENERGY REQUIREMENTS:

Door R-Values:

Walls below grade (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation:

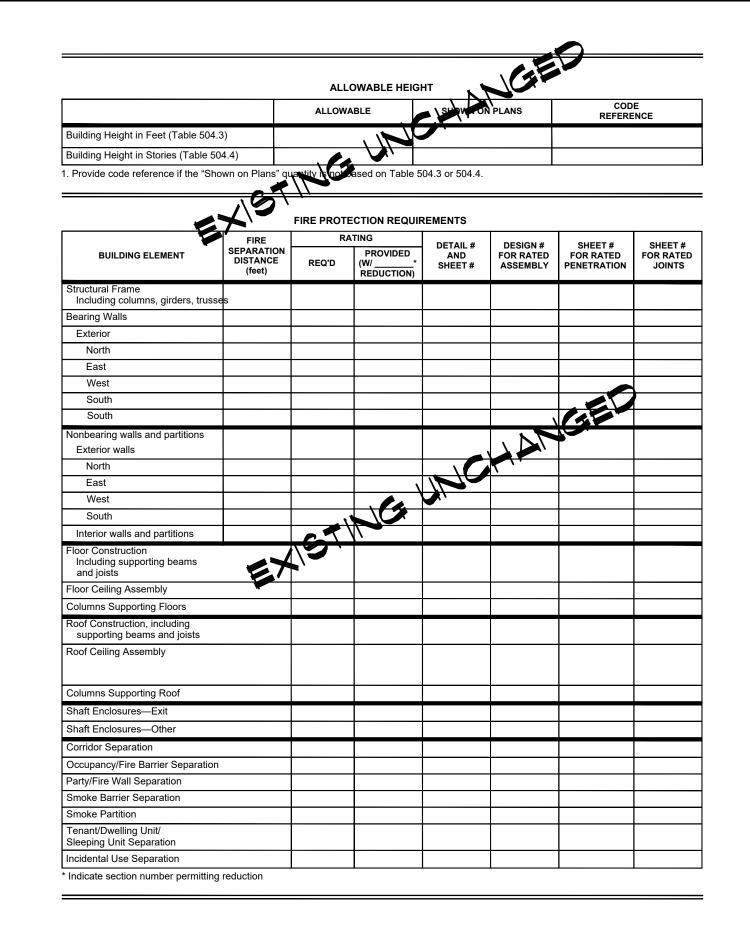
Description of assembly: U-Value of total assembly: R-Value of insulation:

Floors slab on grade Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement:

slab heated:

Floors over unconditioned space (each assembly)

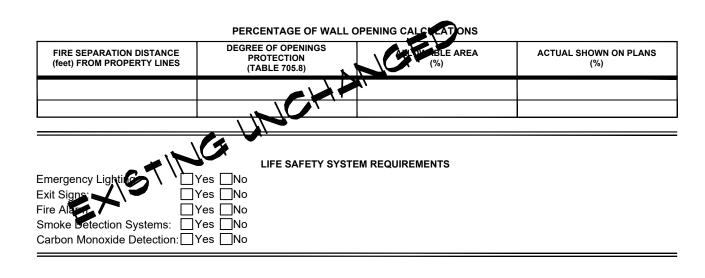
DESIGN LOADS:		
Importance Fact	ors: Wind (IW)	<u></u>
	Snow (IS)	
	Seismic (IE)	
Live Loads:	Roof	psf
	Mezzanine	psf
	Floor	psf
Ground Snow L	.oad: psf	
Wind Load:	Basic Wind Speed	mph (ASCE-7)
	Exposure Category	
SEISMIC DESIGN CAT	EGORY:	
	\ \	mph (ASCE-7)
Provide the following Se	eismic Design Parameters:) `
Provide the following Se Occupancy Cate	eismic Design Parameters egory (Table 1604.5)	
Provide the following Se Occupancy Cate Spectral Respo	eismic Design Parameters gory (Table 1604.5) \ \ III nse Accele atton SS	
Provide the following Se Occupancy Cate	eismic Design Parameters: egory (Table 1604.5)	
Provide the following Se Occupancy Cate Spectral Respo Site Classificatio	eismic Design Parameters: egory (Table 1604.5)	
Occupancy Cate Spectral Respo Site Classificatio Basic structure	eismic Design Parameters: egory (Table 1604.5) nse Acceleration SS n (430 =	☐ III ☐ IV
Provide the following Se Occupancy Cate Spectral Respo Site Classificatio	eismic Design Paramete segory (Table 1604.5)	☐ III ☐ IV
Provide the following Se Occupancy Cate Spectral Respo Site Classificatio Basic structure Bearing Wa	eismic Design Paramete segory (Table 1604.5)	☐ III ☐ IV
Provide the following Secondary Cate Spectral Responsite Classification Basic structure Bearing Walling Free Moment Free Concepts of the Conc	eismic Design Paramete segory (Table 1604.5)	☐ III ☐ IV
Provide the following Se Occupancy Cate Spectral Respo Site Classificatio Basic structure Bearing Walliding Fr Moment Fr Analysis Proced	eismic Design Paramete segory (Table 1604.5)	☐ III ☐ IV
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MECHANICAL DESIGN MECHANICAL SUMMARY MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT winter dry bulb: summer dry bulb: Interior design conditions winter dry bulb: summer dry bulb: description of unit heating efficiency: _ cooling efficiency: size category of unit: Size category. If oversized, state reason. Size category. If oversized, state reason.: List equipment efficiencies: _

ELECTRICAL DESIGN
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 tegained in fixture tumper of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified versus allowed (whole building or space by space) total exterior wattage specified versus allowed
Additional Prescriptive Compliance 506.2.1 More Efficient Mechanical Equipment 506.2.2 Reduced Lighting Power Density 506.2.3 Energy Recovery Ventilation Systems 506.2.4 Higher Efficiency Service Water Heating 506.2.5 On-Site Supply of Renewable Energy

506.2.6 Automatic Daylighting Control Systems



LIFE SAFETY PLAN REQUIREMENTS Life Safety Plan Sheet #: _

Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property lines (705.8) Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)

Occupant loads for each area Exit access travel distances (1017) Common path of travel distances [Tables 1006.2.1 & 1006.3.2(1) Dead end lengths (1020.4) Clear exit widths for each exit door

Maximum calculated occupant load capacity each exit door can accom Actual occupant load for each exit door

A separate schematic plan indicating where it a rated hoor/ceiling and/or roof structure is provided for purposes of occupancy separation

Location of doors with panic hardware (vi) 10(1)10)

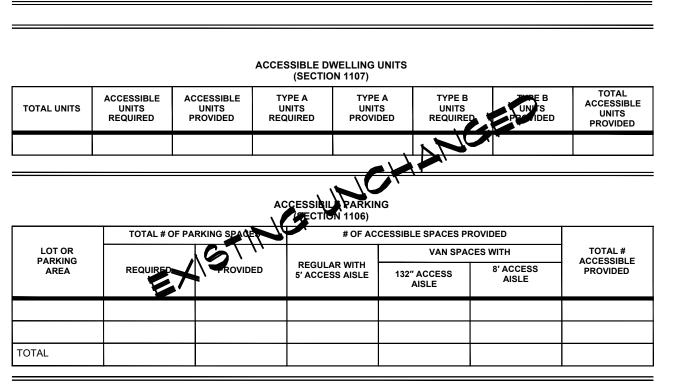
Location of doors with delayed extensives and the amount of delay (1010.1.9.7)

Location of doors with elastion senetic egress locks (1010.1.9.9)

Location of doors equipped with hold-open devices

Location of emergency escape windows (1030) The square footage of each fire area (202)

The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) Note any code exceptions or table notes that may have been utilized regarding the items above



USE	V	VATERCLOSE	rs	URINALS	LAVATORIES LAVATORIES			HOWERS/	DRINKING FOUNTAINS		
002	Male	Female	Unisex	ORINALO	Male	Female	Ulvisex	TUBS	Regular	Accessible	
SPACE	EXIST'G				,						
	NEW			_	111						
	REQ'D			.\(3							
			15	The state of the s	CIAL APPRO	•					

Coastal

 Architectural Design

Interiors

Planning

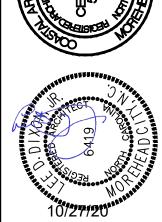
Member of the American Institute of Architects Lee D. Dixon, Jr., AIA 252-247-2127

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28557 www.CoastalArchitecture.ne

SEU MARITIME MUS ENOVATIONS PF 07574-02C ORTH TOILE

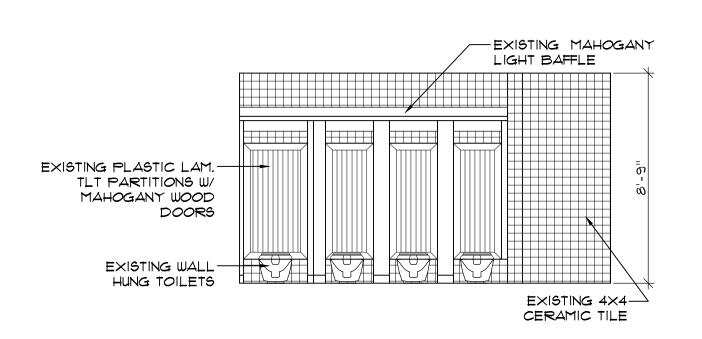


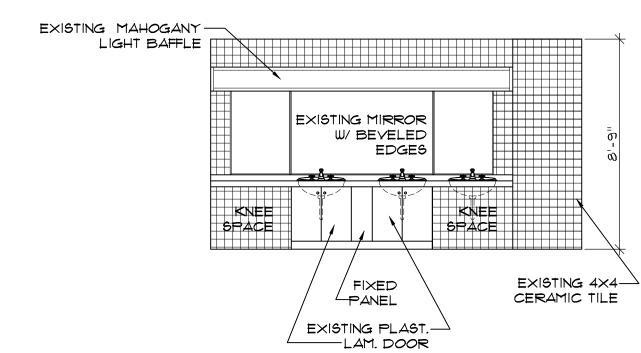


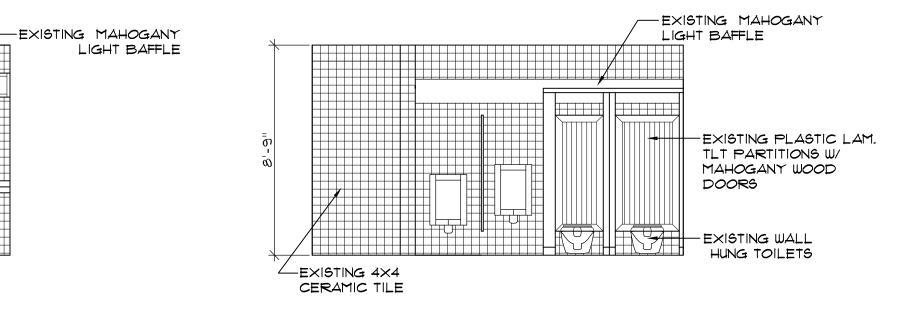
GENERAL DATA

DWG BY: MLR/MES CKD BY: LDD REVISIONS

SHEET NO.







EXISTING WOMANS TLT





EXISTING MIRROR

KNEE

SPĂCE

- EXISTING 4X4 CERAMIC TILE

W/ BEVELED EDGES

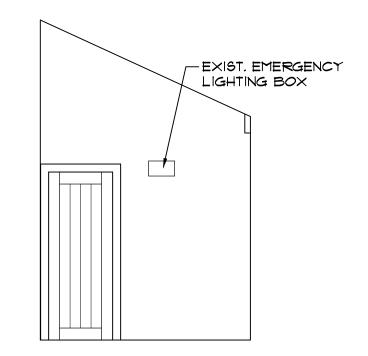
FIXED

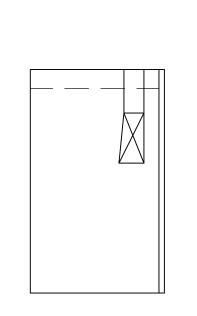
∠PANEL

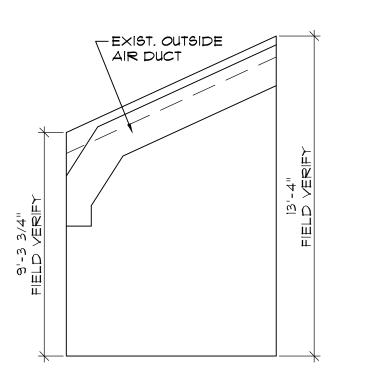
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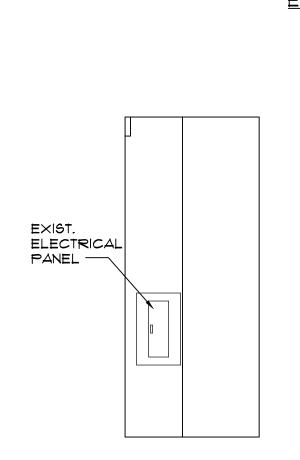
SPACE



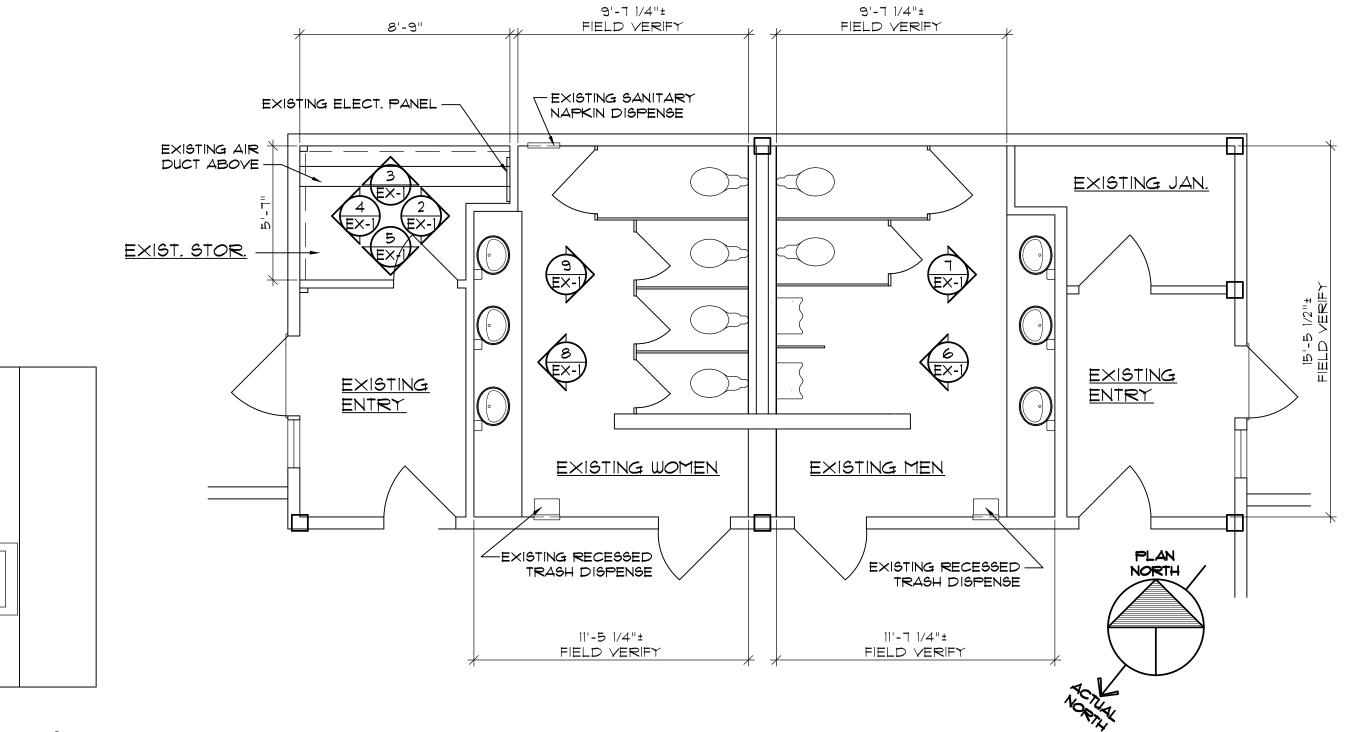
















existing storage 3 INT. ELEVATION

EX-1 SCALE: 1/4 "=1'-0"

EXISTING ENLARGED TOILET PLAN

EX-1 SCALE: 1/4 "=1'-0"

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Planning



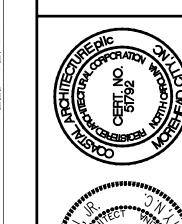
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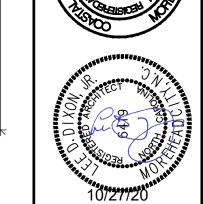
Lee D. Dixon, Jr., AIA 252-247-2127 lee@coastalarchitecture.net

4206 Bridges St. Ext., Suite C Morehead City, NC 28557

SEUM

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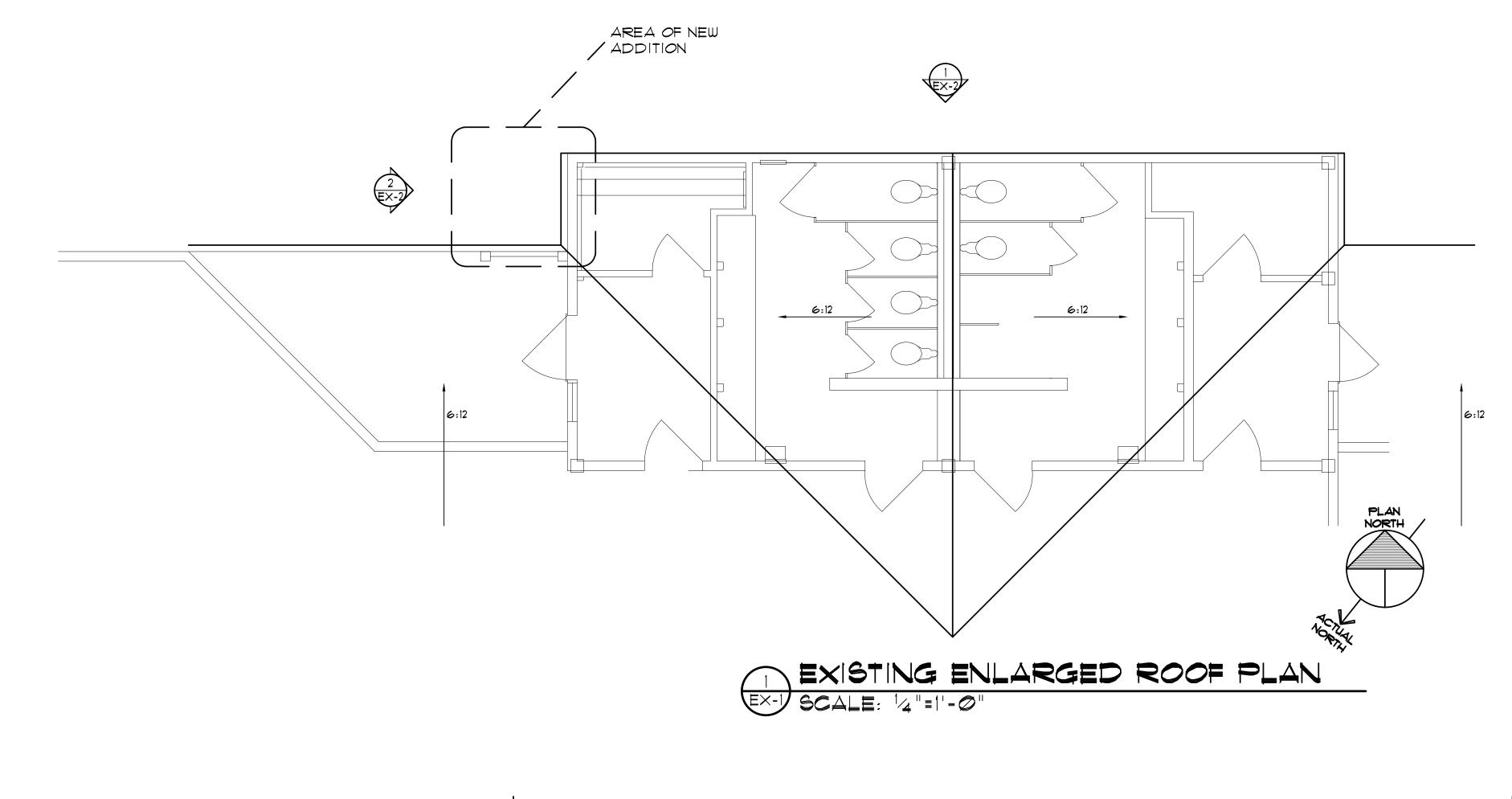


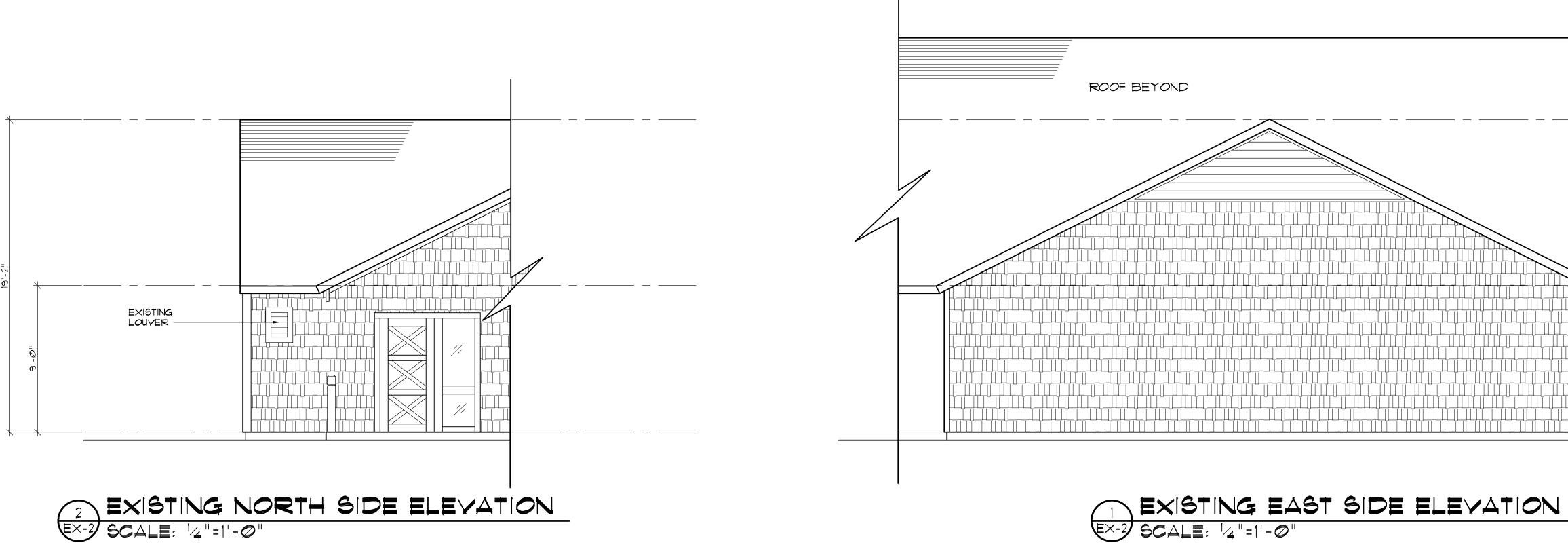
EXISTING ENLARGED TOILET PLANS AND INTERIOR ELEVATIONS

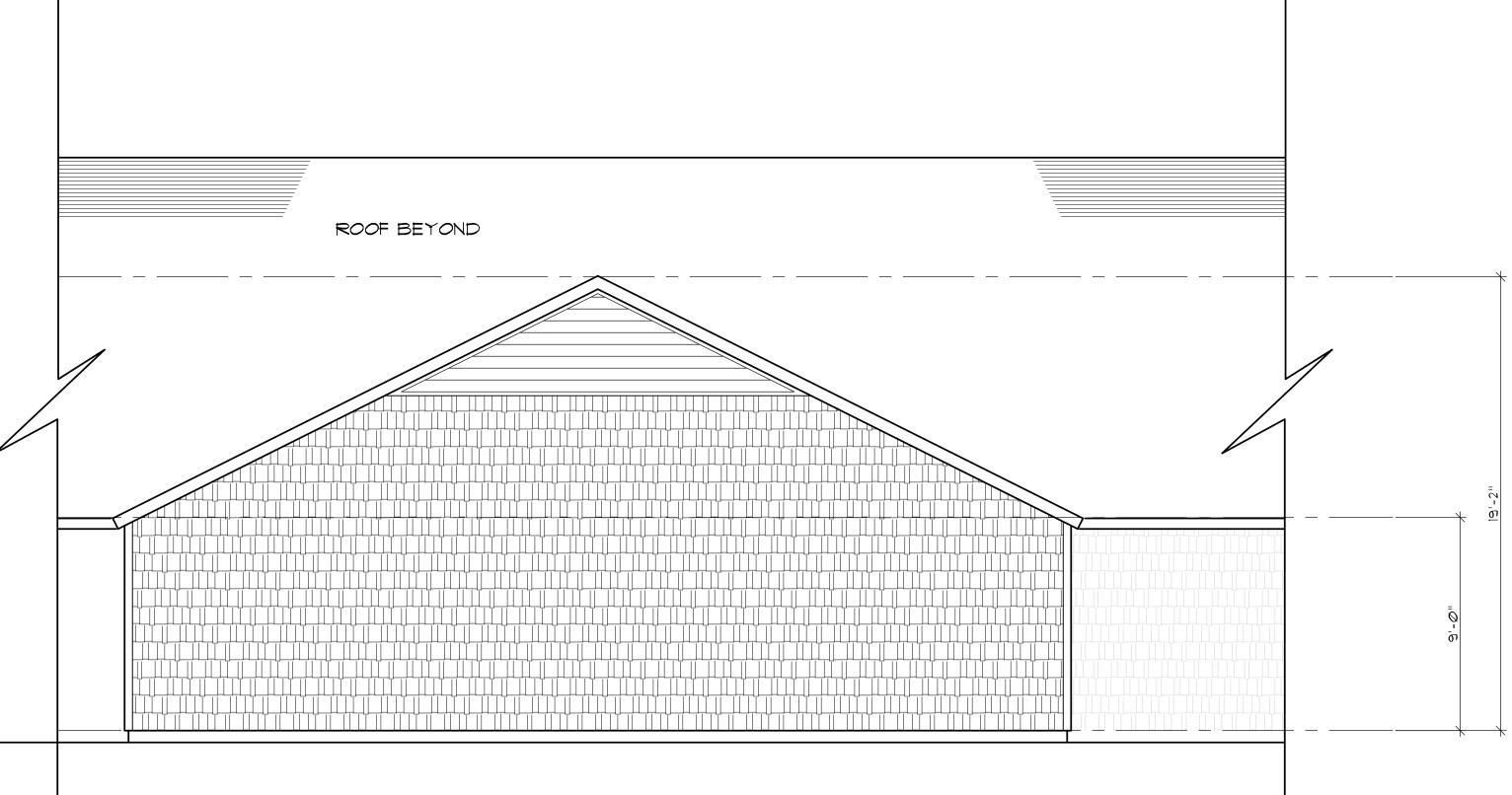
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ISSUED: 10/27/20 DWG BY: MES/MLR CKD BY: LDD REVISIONS









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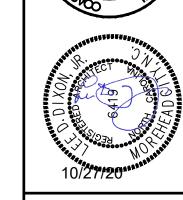
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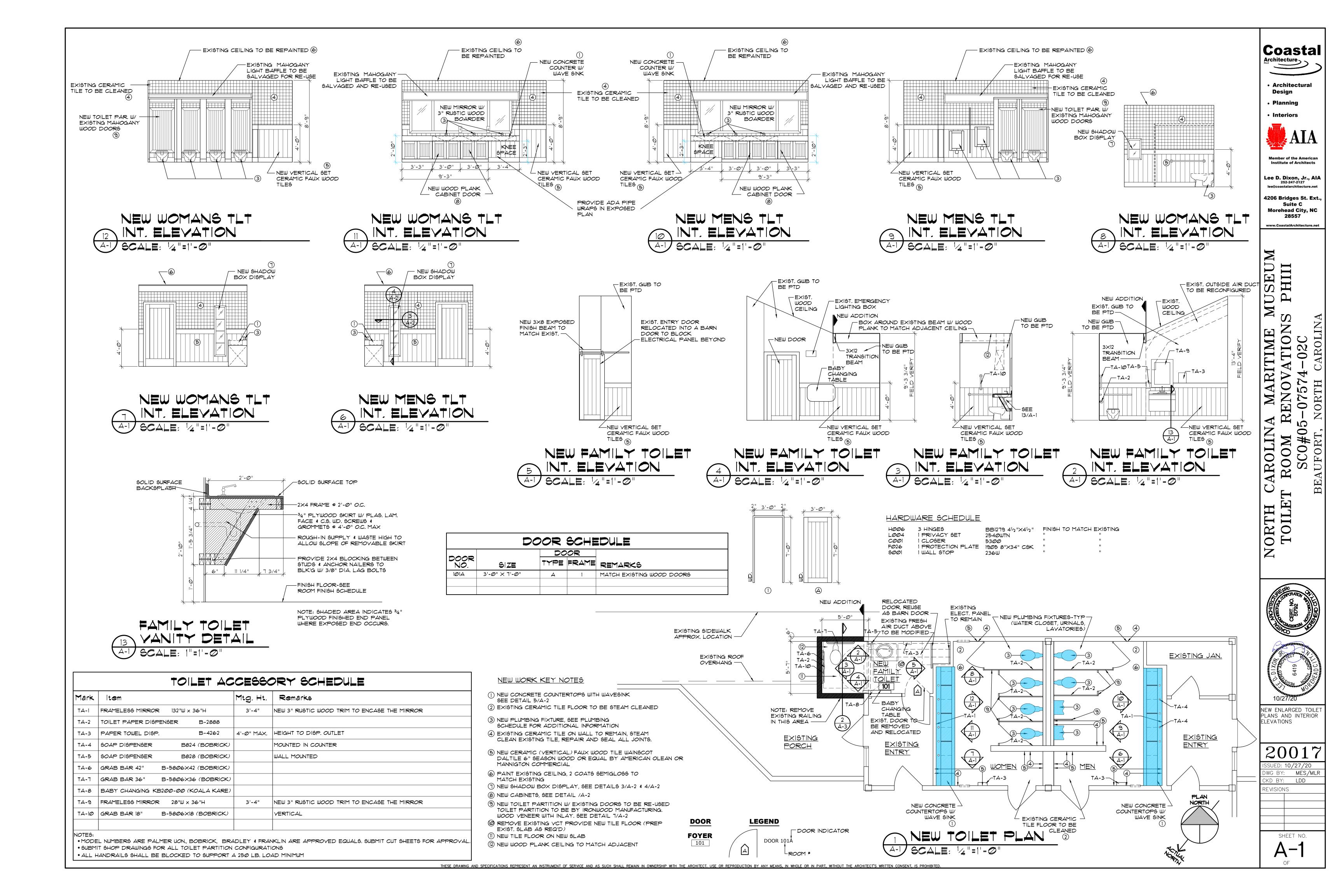
EXISTING ENLARGED ROOF PLAN AND EXTERIOR ELEVATIONS

20017

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CKD BY: LDD



A. GENERAL

1. Notes below are not intended to replace specifications. See specifications for requirements in addition to the 2. Design Live Loads

۷.	Design Live Loads	
	Floor:	100 psf / 50 psf
	Roof:	20 psf
3.	Design Dead Loads	
	Roofing, insulation & decking:	15 psf
	Allowance for future roofing:	0 psf
4.	Wind loads	
	Basic Wind Velocity:	145 mph
	Exposure Condition:	С
	Importance Factor:	1.00
5.	Snow Loads	
	Ground Snow Load, Pg:	20 psf
6.	Earthquake Loads	
	Seismic Risk Category:	II
	Spectral Response Acceleration, Sms:	0.116%
	Spectral Response Acceleration, Sm1:	0.069%
	Site Classification:	D
	Caionaia Danian Catagory	D

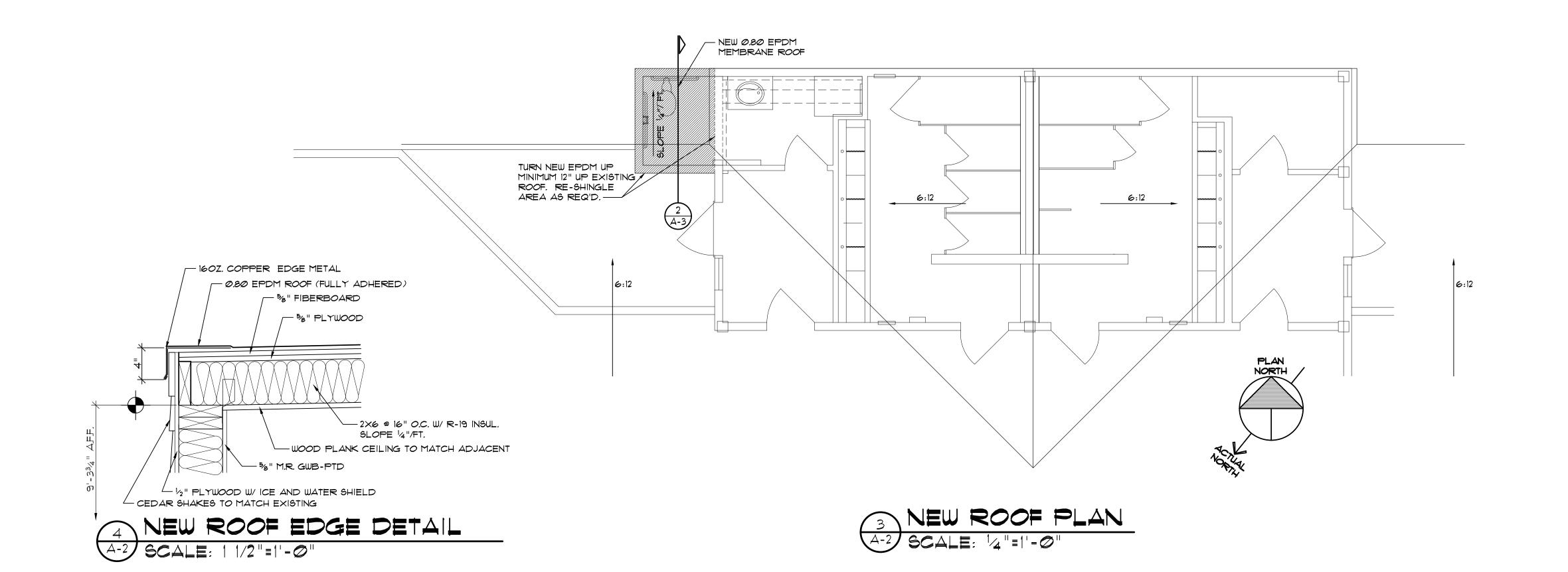
- Seismic Design Category: 7. Structural Drawings shall be used in conjunction with the project specifications and Architectural and other
- 8. Contractor is responsible for dissemination of revisions to Contract documents and requirements to all
- 9. Contractor shall verify all dimensions, elevations and existing field conditions before proceeding with construction.
- 10. Structural frame shall be braced until erection is complete and permanent connections, bracing members and shear walls are installed 11. In case of conflict between specifications and drawings, contact Architect for resolution.
- 12. All safety and OHSA regulations shall be followed strictly. Methods of construction and erection of structural material are the Contractor's responsibility.
- 13. Depress slabs for tile, etc., as required by the Architectural Drawings. Maintain slab thickness below depressed areas as shown on Structural Drawings.
- 14. For slopes or depressions in slab on grade, see Architectural Drawings.

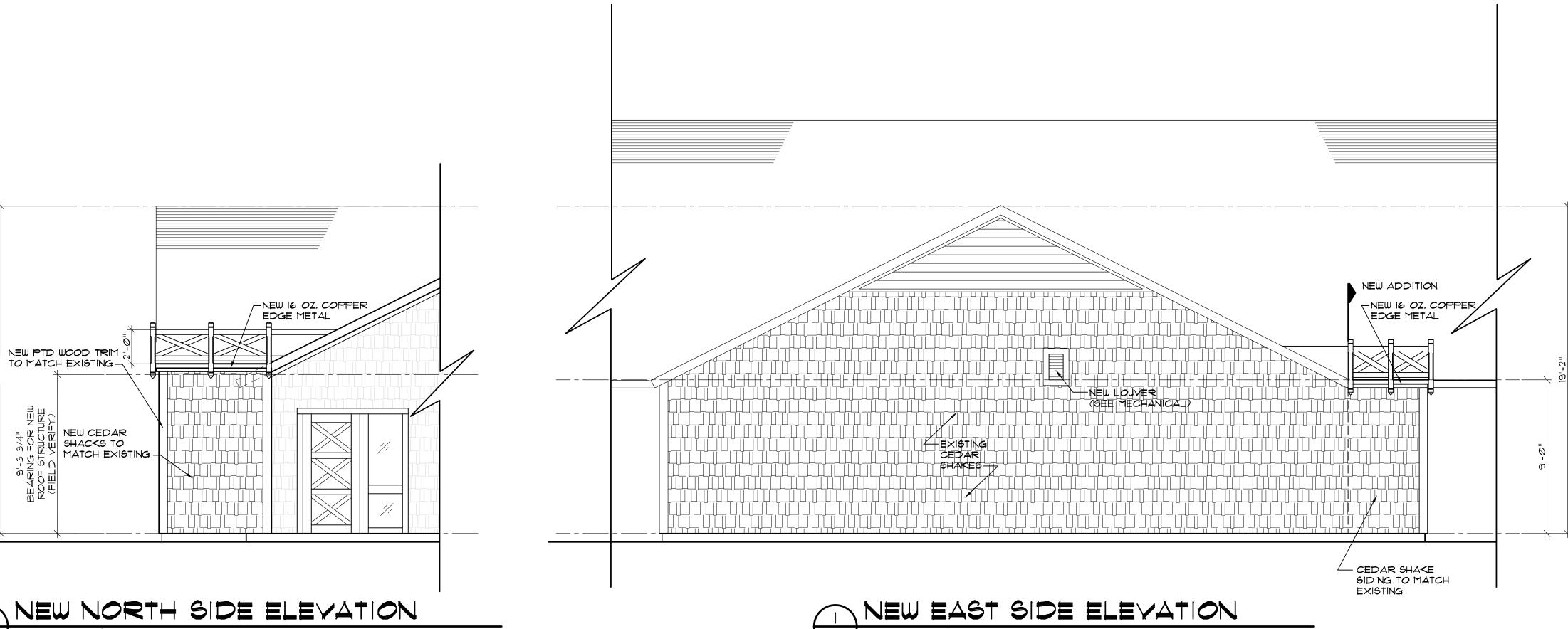
B. FOUNDATION

- 1. Design soil bearing capacity: 1,500 PSF (ASSUMED)
- 2. Footings shall be carried to a lower elevation than those indicated on the drawings if required by the Architect and/or Engineer to reach firm undisturbed soil bearing as herein specified.
- 3. Elevation of foundation shown on the drawings is assumed for bidding purposes only. Foundation to bear on
- 4. All slabs on grade shall be placed over a 4" base of well compacted gravel or granular base. The gravel shall be placed on original soil or on earth fill as described in note #7 below. Cover gravel base with an approved vapor barrier before placing concrete. Structural fill to be placed below reinforced concrete slab and to achieve minimum of 98% of the material's standard proctor maximum dry density according to ASTM D698.
- 5. Sand 4" thick may be substituted for crushed stone at the Contractor's option. Sand shall be compacted to 100% of its maximum density at optimum water content.
- 6. Where footing or slab on grade is to be placed on fill, all topsoil, roots, trash and other extraneous materials shall be removed and replaced with select fill compacted to a minimum of 95% of its maximum density at its optimum moisture content as measured by the Standard Proctor Method (ASTM D 698). The top 12" shall be compacted to a minimum of 98%. Soil compaction shall be field controlled by a representative technician of a qualified laboratory as approved by the Architect and/or Engineer. Each layer/liftu of fill shall be no greater
- than 12" thick and shall be compacted as specified prior to placement of the following layer. 7. It shall be the Contractor's responsibility to provide well—braced shoring at excavations near existing buildings
- and construction to prevent settlement and to prevent cave—ins. 8. Walls acting as retaining walls shall not be backfilled without bracing until all supporting soil and slabs are in
- 9. Select and place porous backfill at retaining walls carefully where indicated on the drawings.
- 10. Place concrete for wall footings monolithically with column footings. Construction joints in wall footings shall be made only midway between column footings.
- 11. Footings shall be excavated to final depth and concrete placed in the same day.
- 12. Footing excavations and forms shall be reviewed by the Architect, Engineer, or approved construction testing agency prior to placing concrete. All footings shall be formed with wood or metal forming materials to the dimensions shown on the drawings, unless otherwise noted. All formwork shall be removed prior to backfill.
- 13. See Architectural Drawings for locations of partition footings and thickened slabs not dimensioned on Structural 14. Place concrete for slab on grade in continuous strips and provide control and construction joints at locations

shown on drawings. C. CONCRETE

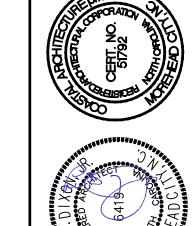
- 1. Minimum compressive strength at 28 days shall be: 3000 psi for footings, and 3000 psi for slab on grade. 2. Exposed concrete shall be air entrained in accordance with Table 1904.2.1 of the NC State Building Code. 3. All detailing, fabrication and erection of reinforcing bars shall conform to ACI "Manual of Standard Practice for
- Detailing Reinforced Concrete Structure" (ACI—315, Latest Edition) and the "Building Code Requirements for Reinforced Concrete" (ACI-318, 2002 Edition).
- 4. Reinforcing bars shall be rolled from new billet steel conforming to "Specification for Deformed Billet Steel Bars for Concrete Reinforcement", ASTM A 615, and shall be Grade 60 except for column and pilaster ties and beam stirrups which shall be Grade 40.
- 5. Welded wire fabric shall conform to ASTM A 185 and A 82.
- 6. All shop and field welding of reinforcing steel to structural shapes shall be performed by welders who have been
- qualified by test as prescribed in the AWS D1.1—88 and shall be performed in accordance with AWS D1.4—79. 7. Grout under all column base plates and beam bearing plates with non—shrink, non—metallic grout which
- conforms to ASTM C1107. 8. Details, workmanship and procedure of concrete placement shall conform to the latest editions of ACI-315,
- ACI-318 and ACI-301. 9. Clear distance from face of concrete to main reinforcing:
 - 1"UON Suspended slabs and joists: Grade beams, pedestals, columns, walls: 2"UON Footings, walls cast against earth: 3" UON
- 10. All isolation joint strips shall be 1/2" thick, unless otherwise noted.
- 11. Provide corner bars at all footing steps and corners unless otherwise noted. Bars shall lap a minimum of 48 bar diameters and shall have the same size and spacing as the horizontal reinforcing.
- 12. Provide #4 diagonal corner bars, minimum 48" long at center of slab around all openings in floor slabs.
- 13. Lap all reinforcing splices at least 48 bar diameters (24" minimum) unless otherwise noted.
- 14. Welded wire fabric shall have end laps of one full fabric plus 2" between cross wires and edge laps obtained by overlapping longitudinal selvage wires 2" and wiring all laps securely together. Welded wire fabric shall extend into supporting beams and walls for anchorage unless an expansion joint is called for.
- 15. All reinforcing shall be securely wired together in forms as called for in "Placing Reinforcing Bars" by CRSI. 16. Crack control joints shall be placed in slabs on grade at a maximum spacing of 16', unless otherwise noted.
- 17. Reinforcing steel in place shall be reviewed by the Architect, Engineer, or approved construction testing agency prior to placing concrete.
- 18. Chamfer exposed edges of concrete 3/4" or as shown in Structural and/or Architectural Drawings. 19. Slab on grade shall be 4" thick with W1.4 x W1.4 welded wire fabric at 1/3 depth from top of slab unless
- 20. Provide all necessary cover and protection for masonry work when placing concrete.
- 21. Provide at least two (2) #4 bars in top of wall footing under door and other openings, 4'-0" longer than the
- 22. Provide dowels in wall footings equivalent in size and number to vertical steel extending 24 bar diameters into footing and with projection as required to provide minimum lap splice as noted above.
- 23. Do not sleeve structural members where not shown on the Structural Drawings without approval of the Architect
- 24. See Architectural Finish Schedule for required floor finishes.





Coastal Architectural Design Planning **Institute of Architects** Lee D. Dixon, Jr., AIA 252-247-2127 4206 Bridges St. Ext. Suite C **Morehead City, NC** HIII SE TION-02C MARITIME 0 90#





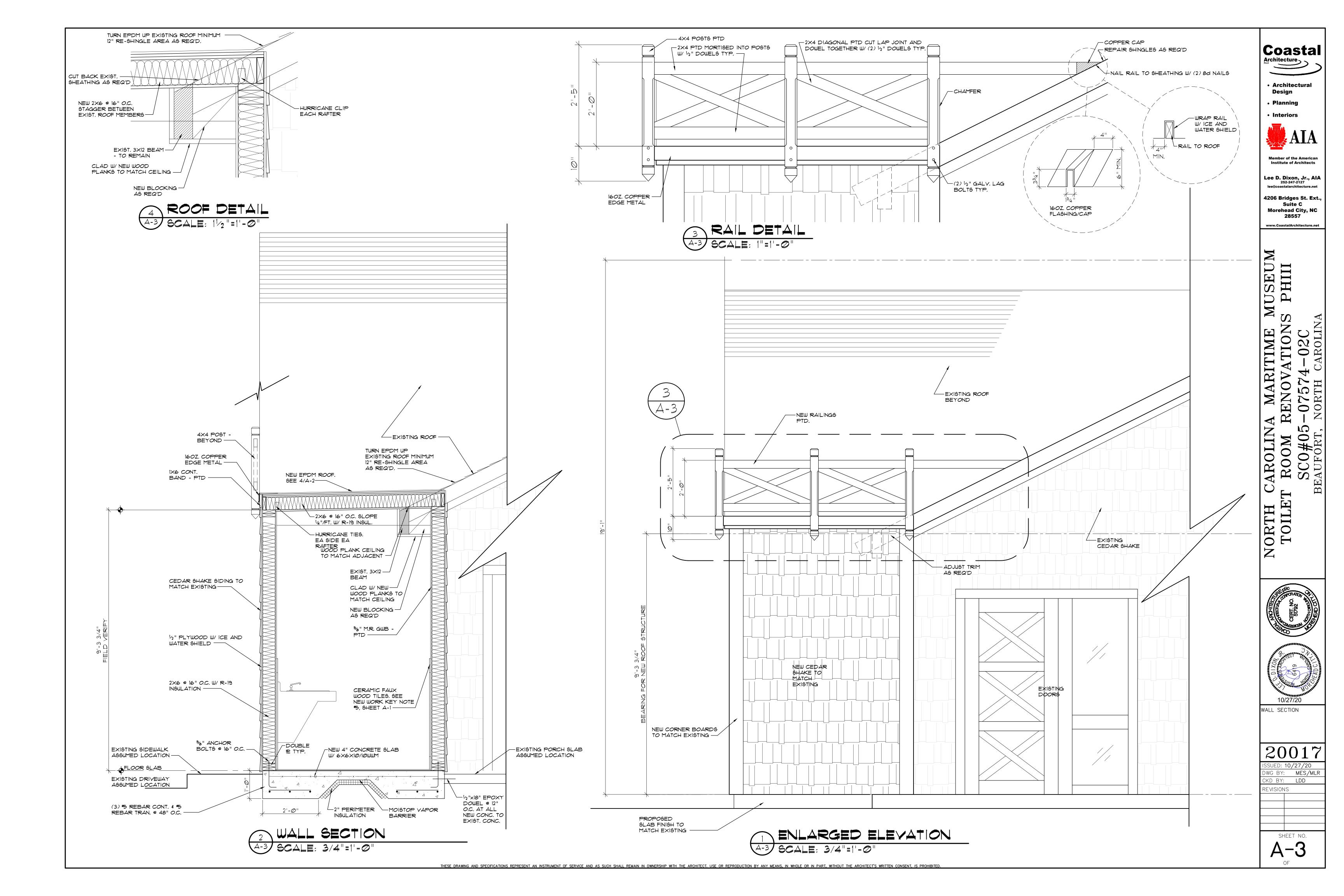
NEW ENLARGED ROOF PLAN AND EXTERIOR ELEVATIONS

20017 SUED: 10/27/20 DWG BY: MES/MLR

CKD BY: LDD

REVISIONS

SHEET NO.



DIVISION 15A - PLUMBING

1.1 DESCRIPTION OF THE WORK

- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
- 1. Plumbing fixtures, water heaters, and any other
- equipment necessary. 2. Cold and hot water piping and insulation.
- DWV piping.
- 4. Connection of all equipment; drain, vent,
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards
- insofar as they apply.
- 1. The National Electrical Code. 2. 2018 N.C. Building Code: Plumbing, and all applicable category codes.
- 3. American Society of Sanitary Engineering Standard 1010. 4. All local codes and ordinances.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.
- D. The Plumbing Contractor shall be licensed in the State of
- North Carolina and have all local licenses required for the work. E. Obtain all permits, licenses, inspections, etc., required for the work, and pay for the same.
- A. The intent of these specifications and accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Plumbing Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.
- 1.3 COORDINATION
- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
- B. Locations shown are approximate. The Plumbing Contractor shall refer to the architectural drawings for placement of equipment, fixtures, etc. Where locations are not clear, the Contractor shall obtain the exact locations from the Architect.
- C. Coordinate all exterior piping connections w/Architect, site contractor/plans. Verify manhole elevations and provide backwater valves as required if flood level rims are below next upstream manhole cover elevation. with flood level rims above upstream manhole shall not discharge thru bw valve. Notify engineer of backwater valve requirement, any issue prior to bid. 1.4 SHOP DRAWINGS
- A. Shop drawings shall be submitted for plumbing fixtures and for pipe. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly

PART 2 - PRODUCTS

- 2.1 FIXTURES A. Each fixture shall be properly supported from the building
- structure as required to the end effect that all fixtures and accessories will be held rigidly in place. Water pipes
- B. Provide loose key angle stops and chrome plated supply pipe water supplies to fixtures.
- C. All exposed piping traps and accessories for fixtures shall be chrome plated. Provide chrome plated escutcheon plates where pipes enter walls.
- D. Provide shutoff valves for all sinks, water heaters, toilets, washing machines, refrigerator icemaker, exterior hose bibbs and all other plumbing fixtures.
- E. Provide trap primers for all floor drains in areas not served by hose bibbs.

- A. Drain-Waste-Vent: All DWV piping shall be Schedule 40 PVC-DWV u.o.n., with the following exceptions: Use cast iron piping in all return air plenums, penetrations of rated walls/floors/ceilings, and in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings. ABS or cast iron piping shall be used for drainage/discharge with a
- B. Hot and cold water piping above grade: Type "L" copper w/solder joints (ASTM-B88), hard drawn with wrought copper fittings (ANSI B16.22). PEX piping with copper fittings may be used with owner/tenant approval and as allowed per code. Copper piping shall be used in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings.

temperature greater than 140 deg. F for a minimum distance of 10'-0".

- C. Cold water piping below grade: Type "K" copper (ASTM-88A) soft drawn.
- Hangers: Use pipe hangers where required on 8-foot centers with
- E. Solder: 95/5. Lead free.
- F. Unions: Provide unions where indicated on drawings, in long runs of piping (except drainage) and at equipment to provide convenient disassembly. Provide dielectric unions when connecting copper tubing to equipment and piping made of ferrous materials.
- 2.3 CLEANOUTS
- A. Hex plugs in rough areas: Recessed plugs with cover plates in
- 2.4 SHOCK ARRESTERS
- Provide shock arresters as required by codes, manufacturer's recommendations and accepted industry standards for qualify construction. Provide for all quick closing valves.

PART 3 - EXECUTION

3.1 CONNECTIONS

- A. This contract includes complete connection of cold water, hot water, drainage, and vent piping as required. All fittings, valves, accessories, cutoffs, drains, etc., required to complete such connections shall be included.
- The connection to water closets shall be made watertight with gasket and wax ring. Floor flanges shall be caulked into position. Plastic caps shall be provided on the tie down bolts, and shall be secured in place by screwing down on threaded brass washers.
- C. Where water pipes connect to exposed chrome plated trim, use proper chrome plated escutcheons.

3.2 SERVICE ACCESS

- A. All valves and accessories shall be insulated so that they can be properly serviced. In no case shall the Plumbing Contractor install equipment or other components in situations that do not meet code requirements or manufacturer's requirements.
- 3.3 ROUTING OF PIPING
- A. Coordinate routing of piping with others, line up work true to or at right angle to adjacent surfaces and in a workmanlike manner. Support all interior piping from building structure by means of hanger or inserts to maintain pitch of lines, to prevent vibration, and to secure piping place.

- B. Space pipe hangers 8'-0" on center for one inch and smaller pipe, 4'-0" on center for 1-1/4 inch and larger pipe. Provide expansion loops as required.
- C. Pipe hangers for insulated lines shall have suitable saddles to protect insulation.
- All H/W and C/W piping shall be insulated with a min. of 1" inch elastomeric insulation (R-6.5 min.) in unconditioned areas. See NCSBC—Plumbing Sect. 305 for all protection requirements. All H/W piping of circulating systems shall be insulated with 1" insulation per Sect. C404.4 of the NCSBC 2018 Energy Conservation Code.
- B. Provide pre-fabricated insulation kits for all sink and lavatory exposed drain and supply piping.

3.5 INSPECTIONS AND TESTS

- A. Before being concealed, all water, soil and vent piping shall be tested to determine if they are water— and air—tight.
- B. Prior to placing into service, entire system shall be tested for leaks in strict accordance with state and local codes.

3.6 STERILIZATION OF PIPING

- A. Sterilize the new water piping thoroughly with a solution containing not less than 50 parts per million of available chlorine, using liquid chlorine, or sodium hydrochloride solution. introduced into the system in an approved manner. The sterilizing solution shall remain in the system in an approved manner. The sterilizing solution shall remain in the system for a period of 24 hours. After sterilization, flush the solution from the system with clean water until the residual chlorine content is not greater than 0.2 parts per million, unless otherwise directed.
- 3.7 SERVICE PRESSURE
- A. Provide approved water-pressure reducing valve (PRV) if service pressure exceeds 80 psi to reduce pressure to 80 psi static or less and as required per NCSBC-Plumbing Sect. 604.8.

- A. Contractor to provide for complete plumbing system drain down.
- 3.9 CLEAN UP A. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of

and exposed material and leave them bright and clean.

construction, clean, wash, and/or polish all fixtures, equipment

- A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.
- B. Any defects in the system which become evident during the guarantee period shall be corrected without cost to the Owner This shall include the replacing of defective materials where required, and the repair of damage caused by leaking pipes, etc., and damage to building surfaces caused in making repairs.

PLUMBING FIXTURE SCHEDULE

ALTERNATE MANUFACTURER/MODEL

AMERICAN STANDARD #3351.660 AFWALL

AMERICAN STANDARD #6550.001 ALLBROOK FLOWISE WITH #6063.051.002 VALVE.

CONCRETE WAVE DESIGN SINK WITH AMERICAN STANDARD FAUCET #7055.105.

MILLENIUM W/VALVE.

ALTERNATE MANUFACTURER/MODEL

ZURN #Z5615-BWL WITH #ZTR6200 VALVE.

ZURN #Z5755-U WITH #ZTR6203 VALVE.

STOGS CONCRETE DESIGN SINK WITH

ZURN FAUCET #Z6950-XL.

GENERAL NOTES - PLUMBING

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE PLUMBING CONTRACTOR (PC) SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC).
- 3. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION AND ALL DISCREPANCIES OR INTERFERENCES BROUGHT TO THE ENGINEERS ATTENTION.
- 4. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. THE PC SHALL PROVIDE ALL MISC. ITEMS NEEDED FOR A COMPLETE SYSTEM REGARDLESS IF NOTED ON THE DRAWINGS OR NOT. FOR DIMENSIONS REFER TO ARCHITECTURAL PLANS.
- 5. THE GC SHALL PROVIDE ALL WALL, FLOOR AND ROOF OPENINGS OF THE SIZE AND LOCATION REQUIRED BY THE PC AND SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES. THE PC SHALL PROPERLY SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEON PLATES AT ALL FINISHED
- 6. ALL NEW WATER PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE, ADEQUATELY SUPPORTED AND PROTECTED AND PROPERLY PITCHED TO ALLOW TOTAL DRAINAGE.
- 7. ALL WATER PIPING SHALL BE HYDROSTATICALLY TESTED FOR A MINIMUM OF 15 MINUTES AT A MINIMUM OF 100 PSIG BEFORE COVERING AND ALL LEAKS CORRECTED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
- 8. PROVIDE MIN. 18" SHOCK ABSORBERS WITH STOPS ON ALL HOT AND COLD WATER FIXTURE RUNS AS REQUIRED BY CODE.
- 9. VENT LINES SHALL SLOPE UP TO ALL STACKS AND TERMINATE A MIN. OF 12" ABOVE ROOF LINE.
- 10. PROVIDE CUT SHEETS ON ALL PLUMBING FIXTURES FOR ARCHITECT AND OWNER APPROVAL PRIOR TO ORDERING ANY FIXTURES.
- 11. PROVIDE/VERIFY HOT WATER TO FIXTURES AT 110 DEGREES (MAX) F U.O.N. PROVIDE THERMOSTATIC MIXING VALVE (TMV) WHERE REQUIRED.
- 12. PROVIDE CLEANOUTS AS REQUIRED BY CODE. NOT MORE THAN 100 FEET FOR 4" DRAIN.

SYMBOL LEGEND - PLUMBING

SYMBOL **DESCRIPTION** (U.O.N.) WASTE PIPING (W) VENT PIPING (V) ____________ COLD WATER PIPING (CW) HOT WATER PIPING (HW) _____________ CLEANOUT FINISH FLOOR COFF WALL/HORIZONTAL CLEANOUT CLEANOUT FINISH GRADE - PROVIDE FLUSH CONCRETE COLLAR AND BRONZE COVER DIELECTRIC UNION SHUT-OFF VALVE VENT THRU ROOF (VTR) ABOVE FINISHED FLOOR

FIXTURE SCHEDULE - PLUMBING

ADA COMPLIANT, PROVIDE SLOAN OPTIMA #EBF-187 BATTERY OPERATED SENSOR FAUCET. PROVIDE DRAIN WITH GRID STRAINER, P-TRAP AND SHUT-OFF VALVES.

MULTI-STATION LAVATORY. PROVIDE BATTERY SENSOR FAUCET FOR EACH STATION (SINGLE HOLE). PROVIDE DRAIN W/GRID STRAINER, P-TRAP AND ALL SHUT-OFF VALVES.

THERMOSTATIC MIXING VALVE (ASSE 1070)

WATTS LFUSG-B 'LEAD FREE' GUARDIAN. INSTALL IN MAINTENANCE ACCESSIBLE LOCATION BELOW LAV/SINK OR ABOVE CEILNG. SET HW OUTFLOW TO SPECIFIED TEMPERATURE (110 DEG. F (MAX.) LTHW).

KOHLER MODEL K-5016-ET, 3/4" TOP SPUD, ADA COMPLIANT W/PROPER INSTALL, 0.5 GPF, 2" OUTLET DRAIN. PROVIDE SLOAN G2 #8186-0.5 BATTERY SENSOR FLUSH VALVE, 0.5 GPF. PROVIDE/VERIFY VALVE WITH OVERRIDE BUTTON.

KOHLER HIGHLINE WATER CLOSET, K-4405, ADA COMPLIANT 1.6 GPF. PROVIDE WITH K-4731-C SEAT, WAX SEAL, CLOSET BOLT KIT. FOR UNITS NOT REQUIRING ADA COMPLIANCE (COORDINATE W/ARCHITECT), USE KOHLER WELLWORTH K-4406 IF REQUIRED. PROVIDE SLOAN G2 8111-1.6 BATTERY POWERED SENSOR FLUSH W/ARCHITECT).

* OR APPROVED EQUAL. SUBMIT ALL ITEMS FOR APPROVAL BY TENANT AND ARCHITECT PRIOR TO ORDERING. ALL OTHER PLUMBING FIXTURES SHOWN ARE PROVIDED BY THE TENANT AND INSTALLED BY THE PLUMBING CONTRACTOR. SEE PLANS FOR NUMBER AND LOCATION. COORDINATE ALL REQUIREMENTS

UNLESS OTHERWISE NOTED

L1 LAVATORY (COUNTERTOP)

A.F.F.

U.O.N.

KOHLER PENNINGTON SELF RIMMING COUNTERTOP LAVATORY, K-2196, WHITE COLOR,

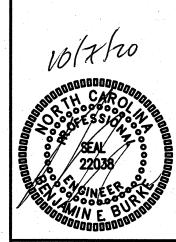
LS * LAVATORY STATION

VERIFY DRAIN/SUPPLY REQUIREMENTS (QTY) AND PROVIDE PLUMBING AS REQUIRED REGARDLESS OF HOW SHOWN ON PLANS— COORDINATE WITH UNIT.

WC * WATER CLOSET (FLOOR MOUNT FLUSH VALVE)

VALVE. VERIFY MODEL FLUSH VALVE WITH OVERRIDE BUTTON. FOR UNITS NOT REQUIRING ADA COMPLIANCE, USE KOHLER WELLWORTH K-4406 IF REQUIRED (VERIFY/COORDINATE

WITH EQUIPMENT SERVED.



Coastal

Design **Planning** Interiors

Member of the America Institure of Architects

Lee D. Dixon, Jr., AIA

4206 Bridges St. Ext.,

Suite C

Morehead City, NC

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252-247-2127 coastalarchitecture.ne

SPECIFICATIONS

DWG BY: DS CKD BY: BEB

REVISIONS

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SHEET NO.

* OR APPROVED EQUAL

TRIPLE LAVATORY

MARK

WC

DESCRIPTION

KOHLER KINGSTON WATER CLOSET, K-4325, WHITE, 1.6 GPF, TOP SPUD. INSTALL

TO BE ADA COMPLIANT WHERE REQUIRED. PROVIDE COMMERCIAL SEAT, SLOAN

OPTIMA PLUS #8111 BATTERY POWERED FLUSHOMETER. VERIFY/PROVIDE PROPER FIXTURE CARRIER. COORDINATE SUPPORT REQUIREMENTS WITH EXISTING CONDITIONS.

KOHLER DEXTER URINAL, K-5016-ET, 3/4" TOP SPUD, ADA COMPLIANT WITH PROPER INSTALL,

SONOMASTONE COMMERCIAL CONCRETE ADA TRIPLE LAVATORY WAVE SINK WITH LINEAR SLOT DRAIN.

COORDINATE NUMBER OF HOLE REQUIREMENTS W/ARCH. OWNER, PROVIDE SLOAN EAF-250 BATTERY

POWERED SENSOR FAUCET. COORDINATE WITH EXISTING CONDITIONS, OWNER, ARCH, AND PROVIDE PROPER MIXING VALVE OR FAUCET MODEL OPTION AS REQUIRED.

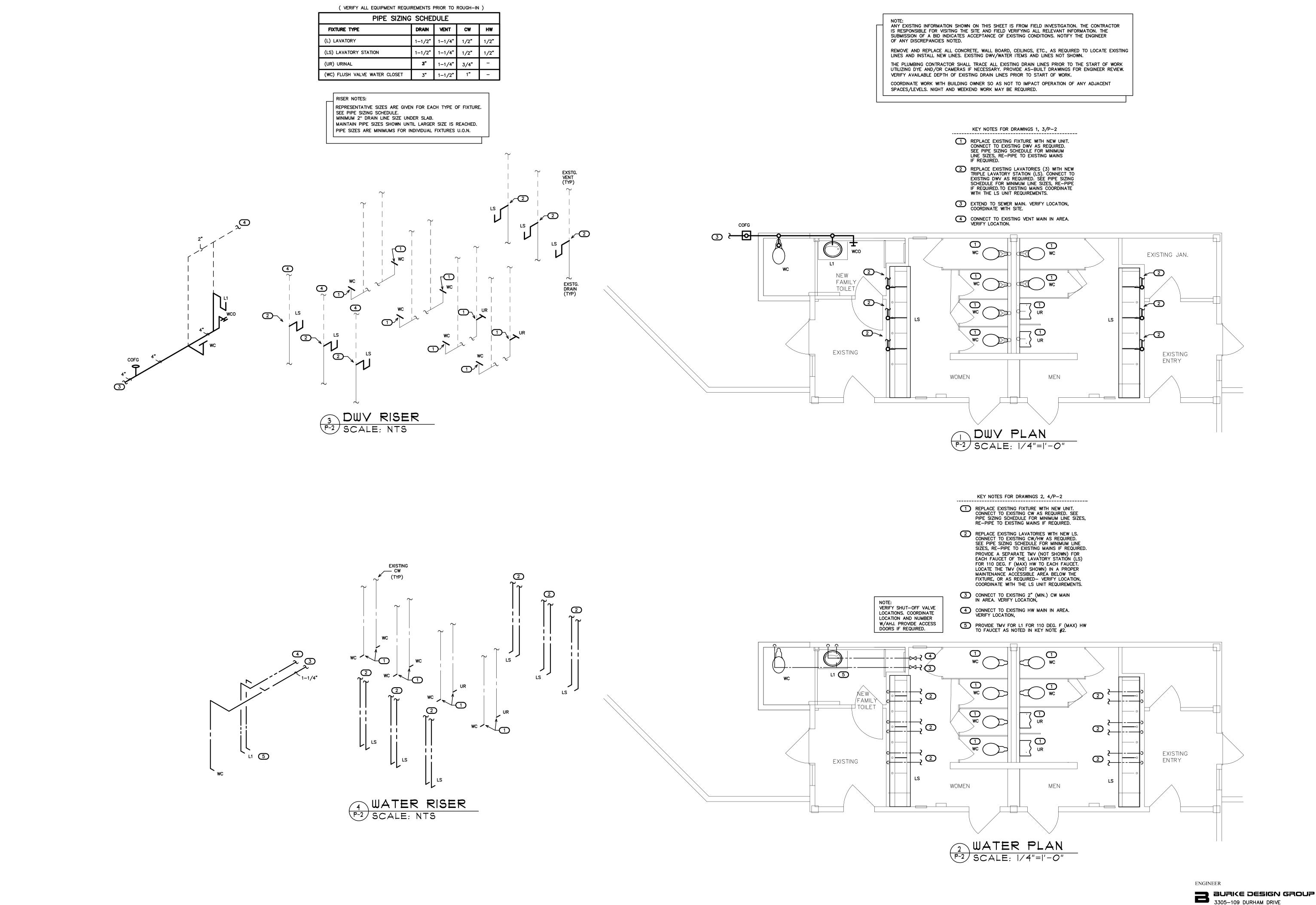
0.5 GPF, 2" OUTLET DRAIN, ANSI COMPLIANT. PROVIDE SLOAN ROYAL OPTIMA 186 BATTERY POWERED SENSOR FLUSH VALVE W/MANUAL OVERRIDE, 0.5 GPF, 3/4" IPS SUPPLY. VERIFY/PROVIDE

PROPER FIXTURE CARRIER. COORDINATE SUPPORT REQUIREMENTS WITH EXISTING CONDITIONS.

WATER CLOSET (WALL MOUNT)

ENGINEER BURICE DESIGN GROUP

3305-109 DURHAM DRIVE RALEIGH, NC 27603
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Coastal

Architectural Design **Planning** Interiors



Member of the American Institure of Architects

Lee D. Dixon, Jr., AIA

4206 Bridges St. Ext., Suite C Morehead City, NC

28557

EMOD CAROLIN SEUM M ORTH MARITIME **EAUFORT** M



PLUMBING

SUED: **9/10/2020**

DWG BY: DS CKD BY: BEB REVISIONS

SHEET NO.

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email: ben@bdg—nc.com Corp. License # C-2652

P-2

DIVISION 15 B - HEATING, VENTILATING AND AIR CONDITIONING

- 1.1 DESCRIPTION OF THE WORK
- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
- Ductwork.
 Grilles and diffusers.
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards incofer as they goals.
- 1. ASHRAE Guide
- National Electric Code.
 2018 NC State Building Code: Mech Code.
- 4. The Electrical Specifications for this project.
 5. SMACNA HVAC Duct Construction Standards.
 6. All local codes and ordinances.
- 7. ARI rating.8. 2018 NC State Building Code: Energy Conservation Code.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.
- D. The HVAC Contractor shall be licensed in North Carolina and have all local licenses required for the work.

1.2 INTENT

A. The intent of these specification and the accompanying drawing is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The HVAC Contractor shall take this into consideration and include in his bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Owner of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Owner for a decision before resuming operations.
- B. Locations shown are approximate. The HVAC Contractor shall verify with owner, the placement of equipment, fixtures, outlets, etc. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required.
- C. Changes in duct or piping design caused by obstructions shall be submitted to Engineer in sketch form for study and comment prior to execution. Additional cost will not be allowed for this type of work.
- 1.4 SHOP DRAWNGS
- A. Shop drawings shall be submitted for all major items of equipment, These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified. Shop drawings shall include but are not limited to the following:

1. Grilles and diffusers.

2.3 DUCTWORK

PART 2 -PRODUCTS

- A. Ductwork shall be built in accordance with SMACNA HVAC Duct construction standards. Furnish and install all supply, return, and ventilation ductwork shown, together with splitters, deflectors, dampers, etc. This work shall be constructed of new galvanized prime grade steel sheets. The gauges of metal to be used and the construction and bracing of joints shall be in accordance with the SMACNA recommendations.
- B. Seal all sheet metal joints with fiber impregnated mastic.C. Support from building structure on strap hangers not over 8 feet apart.
- D. Use manufactured turning vanes in each elbow where required or where indicated on drawings.
- E. Flexible connectors shall be 3 inches wide, of fireproof material and used to isolate noise between equipment and ductwork on supply and return side of all units.
- F. Round runouts, where used, shall be built in accordance with the above standards, and each runout shall also have manufactured side take off, adjustable quadrant damper at a accessible locations and shall be of Owens Corning INL—25 flexible duct with UL label. Flex duct lengths allowed up to 14 feet. Duct must be supported with sufficient hangers in order to prevent sags. Serpentine routing will not be permitted. Quadrant damper to be 22 gauge easily adjustable manually with exterior handle (similar to H&C Kwik—set) and is not to be mounted in side take—off.

2.4 DUCT INSULATION (LOW PRESSURE)

- A. All insulation, linings, coverings and adhesives shall have a flame spread classification of 25 or less and a smoke
- developed rating of not more than 50, exposed exterior piping.

 B. All duct insulation shall comply with Section 604, of the N. C. Building Code: Mechanical Code
- C. All supply and return ductwork shall be completely insulated, either internally or externally.
- D. Rectangular ductwork shall be lined with two—inch thick,
 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG Ultraliner, Johns Manville or approved equal.
- E. As an alternative to duct liner rectangular duct may be wrapped with Class I 2", 3/4 lb. density (R-6.5) thick reinforced foil back fiberglass insulation, Owens-corning Series ED or equal. Tape shall be Kraft
- F. Exhaust air duct does not require insulation, unless otherwise noted on the plans.
- G. Insulation shall be held inplace with adhesive and welding
- H. Duct dimensions shown on the drawings are Net Inside Dimensions

2.6 ROOF PENETRATION

- A. Provide pre—manufactured roof flashings compatible with equipment served.
 B. Coordinate roof work with roof system used. Provide proper flashing as required.
 C. Provide 1 year warranty on all roof work performed.
- C. Provide I year warranty on C

PART 3 - EXECUTION

- 3.2 ELECTRICAL WORK
- A. The electrical contractor shall provide all switches, starters, wire conduit for the air conditioning, heating and ventilation equipment. Control wiring shall be by the heating and air conditioning contractor.
- B. HVAC Contractor is responsible for verifying that power terminals have been properly grounded prior to operating equipment and must find connections to all equipment including control wiring.
- C. All materials and workmanship shall be in accordance with the electrical specifications for the project. All wiring shall be color coded, and as—built wiring diagram prepared showing all connections and colors of wiring and delivered to the Owner.
- Furnish certification for acceptance of control wiring from local electrical inspector prior to acceptance.

3 CLEAN UP

- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.
- B. Furnish one box of clean filters, for each size required, at the time of final inspection to the owner.

3.4 OPERATOR'S MANUAL AND DIAGRAM

- A. The HVAC Contractor shall prepare in one copy a manual describing the proper maintenance and operation of the systems. This manual shall not consist of standard factory instructions (although these may be included) but shall be prepared to describe this particular job.
- B. The manual shall be bound, indexed, dated and signed by the HVAC Contractor.
- C. Qualified representative of the HVAC contractor shall meet with the designated representatives of the Owner and the Owner's representative shall be instructed in the proper operation and maintenance of the control system and other systems.

3.5 GUARANTEE

- A. Guarantee all materials and labor included in the HVAC work for a period of one year from date of final acceptance by the owner. In addition, motor compressors shall be a nonprorated five year warranty. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the owner or tenant.
- B. All air flows must be measured and balanced to within 10% of design airflows. All equipment used must have a current certification. Provide two copies of the balance report to the owner at closeout. The HVAC contractor shall return and re-balance to occupant comfort after 90 days from close-out Provide all balance dampers needed for satisfactory operation regardless if shown on the drawings or not, and shift location of thermostats themostats if required for occupancy comfort.

GENERAL NOTES - MECHANICAL

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- 3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
- 4. THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- 5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
- 6. THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED ELECTRICIAN.
- 7. PROPERLY SUPPORT ALL DUCT WORK, AND EQUIP FROM STRUCTURE. PROVIDE ALL STRUCTURAL SUPPORTS FOR THE LOADS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- 9. INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING.
- 10. DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
- 11. THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- 12. PROVIDE ALL REQUIRED ROOF PENETRATIONS FOR THE INSTALLATION OF THE NEW EQUIPMENT. ALL FLASHINGS ARE BY THE MECHANICAL CONTRACTOR. ALL ROOFING WORK SHALL BE DONE BY A LICENSED ROOFING CONTRACTOR SO AS TO MAINTAIN ORIGINAL WARRANTY.
- 13. THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.

AIR DISTRIBUTION SCHEDULE ARK ** MANUFACTURER MODEL NO. NECK SIZE FACE SIZE MATERIAL SERVICE NOTES A CARNES RTDBH 6" X 6" 8" X 8" STEEL SUPPLY DUCT MOUNTED, WHITE.

* OR APPROVED EQUAL

COORDINATE BORDER TYPE WITH THE CEILING TYPE. SEE ARCH SHEETS PROVIDE CUT SHEETS TO OWNER/ARCH. PRIOR TO ORDERING.

EXHAUST SCHEDULE

EXHAUST RATE PROVIDED PER TABLE 403.3 NCSBC MECHANICAL CODE.

APPLICATION

70 CFM/FLUSHING FIXTURE

TOILETS 70 CFM/FLUSHING I

EXHAUST PROVIDED BY ONE EXHAUST FANS, MAKE UP AIR BY TRANSFER AIR

LEGEND - MECHANICAL

12 X 8

RECTANGULAR DUCTWORK. INSIDE CLEAR DIMENSION INDICATED (WIDTH X HEIGHT)

12" DIA.

ROUND GALVANIZED STEEL DUCT INSIDE CLEAR DIMENSION INDICATED.

12° / OJ.K. //

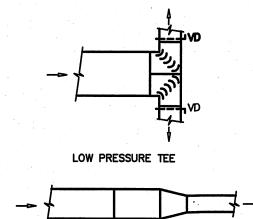
DOUBLE WALLED GALVANIZED STEEL SPIRAL DUCT INSIDE CLEAR DIMENSION INDICATED.

DUCT MOUNTED SUPPLY AIR DIFFUSER

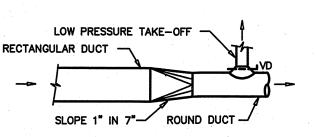


SUPPLY DIFFUSER

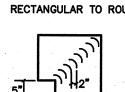
RETURN GRILLE



₩ LOW PRESSURE BRANCH TAKE-OFF



RECTANGULAR TO ROUND TRANSITION



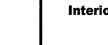
R= DUCT WIDTH

FULL RADIUS ELBOW

SQUARE THROAT ELBOW FULL
LOW PRESSURE DUCT ELBOWS

DUCT CONSTRUCTION DETAILS

M-I SCALE: NOT TO SCALE



Design Planning Interiors

Architectural

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MODEL

MARITIME MUSEUN BATHROOM ROOM REM

SEAL 22038 OF STATE BURNING OF THE B

HVAC SCHEDULES

20017

DWG BY: CLS
CKD BY: BEB
REVISIONS

SHEET NO.

BURICE DESIGN GROUP

3305-109 DURHAM DRIVE

RALEIGH, NC 27603

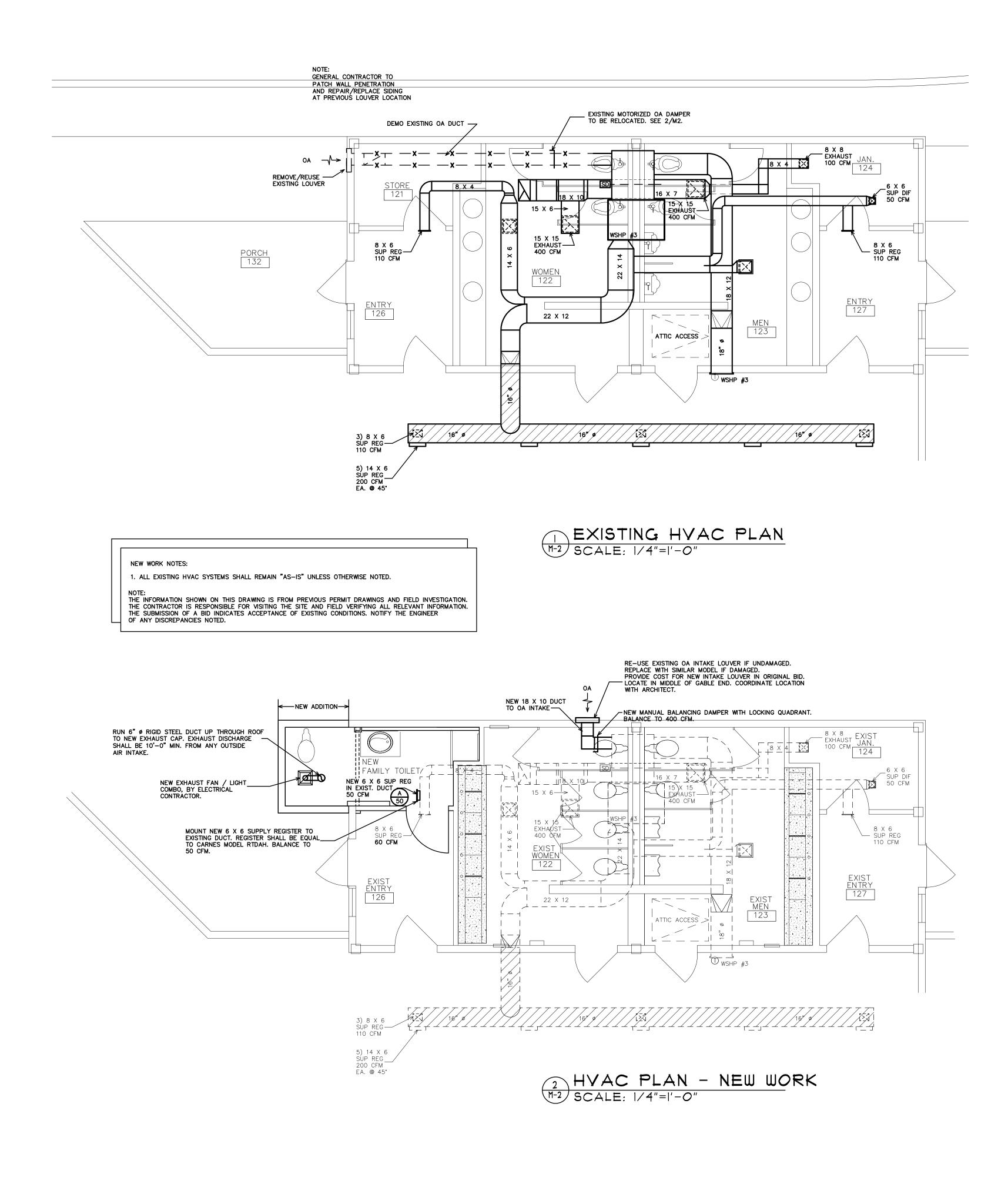
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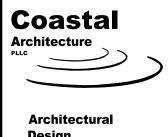
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REMODEL CAROLINA MUSEUM MARITIME **THROOM RO** BEAUFORT, 4



HVAC PLAN

20017 SUED: 10/02/2020 DWG BY: CLS / DS

CKD BY:

BEB REVISIONS

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SHEET NO. M-2

DIVISION 16 - ELECTRICAL

- PART 1 GENERAL 1.1 DESCRIPTION OF THE WORK
- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
- 1. Lighting and power distribution system. 2. Provide lighting fixtures per light fixture schedule
- with lamps to match.
- 3. Wiring devices, boxes, cover plates, etc. 4. Source of power for all items of equipment.
- 5. Grounding. 6. Other requirements and/or systems where shown.
- B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct
- C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:
- 1. The 2017 National Electrical Code. 2. The National Electrical Safety Code.
- 3. Underwriter's Laboratories, Inc., Standards and approved listings or other approved 3rd party listing agency.
- 4. Electrical Testing Labatories standards. 5. 2018 North Carolina State Building Code. 6. 2018 North Carolina State Energy Code.
- D. The Electrical Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.
- E. Local permits are not required. All work must be inspected by the Office of State Construction state electrical inspector and the Engineer of Record. Provide certificate of inspection and approval from the state electrical inspector prior to the final inspection. The electrical contractor is responsible for contacting the state electrical inspector for all required inspections.
- F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.
- A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming
- B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.

1.4 SHOP DRAWINGS

A. Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

PART 2 - PRODUCTS AND MATERIALS

- 2.1 GENERAL
- A. All material shall be new and shall bear the manufacturer's name, trade name, and be third party acceptable to NCDOI listed and labeled where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacturer of the required type of equipment and the manufacturer's latest approved design.
- 1. Boxes installed in concealed locations shall be set flush with
- the finished surfaces. 2. Provide rated boxes in all fire barriers & walls installed per code.

2.2 CONDUCTORS

- A. Conductors shall be color coded, sizes #4 and larger may be color taped on the job. Color coding shall comply with 2017 NEC.
- 208/120V, 3 phase Phase A- Black Phase B- Red Chase C- Blue Neutral- White
- Ground- Green 480/277V, 3 phase
- Phase A- Brown Phase B- Orange Chase C- Yellow Neutral — Natural Grav Ground- Green
- B. Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and IPCEA and shall be third party acceptable to NCDOI approved.
- C. Conductors shall be spliced and taped as follows: 1. Size #10 and #12, use Ideal "Wing Nuts" or T&B "Piggy" connectors. Connectors shall be rated for
- 150 degrees C for use in recessed lighting fixtures. 2. Size #8 and larger shall be solderless screw and screw-clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed insulating covers may be used. All connectors shall
- be UL approved. 3. No split-bolt type connectors may be used. (D. All branch wire and connections shall be copper and sized per
- National Electric Code with a minimum size of #12. E. All conductors shall be continuous without splice between junction. outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.
- F. All wiring in mechanical spaces shall be plenum rated.
- G. Provide GFI protection within 6'-0" of any sink.
- H All multi-wire branch circuits shall comply with 2017 NEC. 2.3 PANELBOARDS, SAFETY SWITCHES
- A. Panelboards shall comply with NEMA Standard PB 1 Latest Edition and as manufactured by Square D or ITE—Siemens. All panel boards must have copper buses and bolt—in breakers.
- B. Safety switches shall be heavy duty type, size and rating as required for lead service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.

2.4 WIRING DEVICES

- A. Wiring devices shall be commercial grade by Bryant, Leviton, Cooper or approved equal. With matching cover. Color by Architect.
- B. Wiring devices installed under a Kitchen Hood shall have stainless steel covers.
- C. Wiring devices installed over counters shall comply with ANSI A117.1.

2.7 CONDUIT

- A. PVC conduit will be allowed under slab. Provide rigid turn-ups.
- B. All exposed conduit shall be rigid steel where exposed to the elements, located less than 8'-0" above grade or where exposed to hazardous conditions.
- C. EMT conduit, above slab, concealed or exposed above 8'-0" shall be used D. Metallic sheathed "MC" cable should not be used for this project, without
- designer authorization. MC cable is allowed for light whips 6'-0" or less and where concealed with-in existing construction to minimize demolition work. If used, MC cable shall be 1/2" with minimum #12 AWG copper wire and green insulated copper ground.

PART 3 - EXECUTION 3.1 CIRCUIT GROUNDING

A. All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250-122 of the NEC. Grounding conductors shall be connected to equipment grounding bus in panelboard and securely attached and grounded to the device or enclosure at the other end.

3.2 GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES

A. Outlets and switches shall be solidly grounded to equipment grounding system with a green colored insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the hex nut on the convenience outlet or switch.

3.3 MOTORS

- A. All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 36") of flexible liquidtight
- 3.4 EQUIPMENT LABELING
- A. Provide permanent penolic plastic name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment controlled, services, etc. Nameplates shall be securely and permanently attached to equipment with stainless steel screws. Nameplates shall include the name of the equipment and where it is fed from. Color Coding-
- Blue surface with white core- 120/208v equipment Black surface with white core- 277/480v equipment Bright red surface with white core— fire alarm systems Dark red surface with white core- security systems Green surface with white core— "emergency" systems Orange surface with white core— telephone systems Brown surface with white core— data systems White surface with black core-paging systems Purple surface with white core— TV systems
- B. All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.
- C. All empty conduit runs shall be identified and indicated where they terminate.
- D. Provide typewritten directory in each panelboard to clearly identify each circuit, service, etc.
- 3.5 JUNCTION AND/OR PULL BOXES
- A. Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.
- 3.6 PULL WIRE
- A. Leave pull wire in each empty conduit run.

- A. All grounding shall be in accordance with Article 250 of the NEC. In addition, the following requirements shall be met:
- 1. Grounding conductors shall be installed as to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible.
- 2. Equipment ground continuity shall be maintained through flexible metal conduit.
- 3. All wiring devices equipped with grounding connection shall be
- solidly grounded to ground system with grounding conductors. 4. The frame of all lighting fixtures shall be securely grounded
- to the equipment ground system with grounding conductors. 5. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be
- effectively and adequately bonded to ground. 6. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be
- effectively and adequately bonded to ground. 7. The reaceway system shall not be relied on for ground continuity A green grounding conductor, properly sized per NEC table 250-122,

3.8 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK

shall be run in all power raceways.

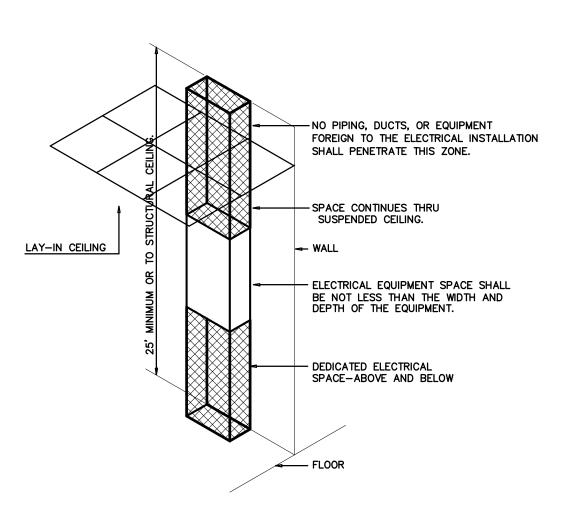
A. The trade(s) furnishing equipment will provide disconnect switches, motor starters, and make will make line side connections to disconnect switches or motor starters.

3.9 CLEAN UP

A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.

3.10 GUARANTEE

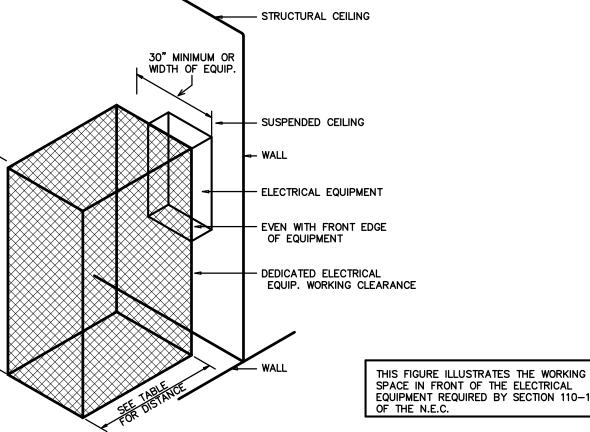
A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.





ELECTRICAL EQUIPMENT DEDICATED SPACE

PER ARTICLE 110.26.F.1 OF N.E.C.



ELECTRICAL CLEARANCES

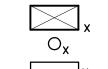
ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110-26 OF N.E.C.

WORKING CLEARANCES								
OLTAGE TO			DISTANCE IN	FEET				
OUND NOMINAL	CONDITION:	1	2	3				
150		3	3	3				
1–600		3	3–1/2	4				

WHERE THE CONDITIONS ARE AS FOLLOWS:

- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS. 2 EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED
- PARTS ON THE OTHER SIDE. 3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

ELECTRICAL LEGEND



LIGHT FIXTURE: LETTER DENOTES FIXTURE TYPE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE). NL = NIGHT LIGHT (NOT SWITCHED/ALWAYS ON)



DUPLEX RECEPTACLE - 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; 'WP' INDICATES WEATHER PROOF, 'GFI' INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED

LIGHT SWITCH

SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.

JUNCTION BOX

TELE/DATA OUTLET - PROVIDE JUNCTION BOX WITH CONDUIT BACK TO MTP. PROVIDE (1) TELEPHONE JACK AND (1) CAT 5 DATA JACK

SINGLE-POLE HOMERUN TO PANELBOARD

EXIT EXIT LIGHT

EMERGENCY EGRESS FIXTURE

BRANCH CIRCUIT WIRING

DISTRIBUTION PANELBOARD

E H



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Architectural

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0

2

0

SE

Planning

'U' INDICATES RECEPTACLE WITH (2) USB PORTS.

QUADRAPLEX RECEPTACLE - 120V

FLOOR OR CEILING OUTLET (AS NOTED) - 120V SPECIAL PURPOSE RECEPTACLE - REFER TO POWER PLAN AND PANEL SCHEDULE

DIMMABLE LIGHT SWITCH MOTOR RATED SWITCH

TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD



---- SWITCH LEG GROUND CONNECTION

> DISCONNECTING MEANS AS REQUIRED BY CODE

SCHEDULES AND RISERS

SUED: 9/10/2020 DWG BY: DS CKD BY: BEB

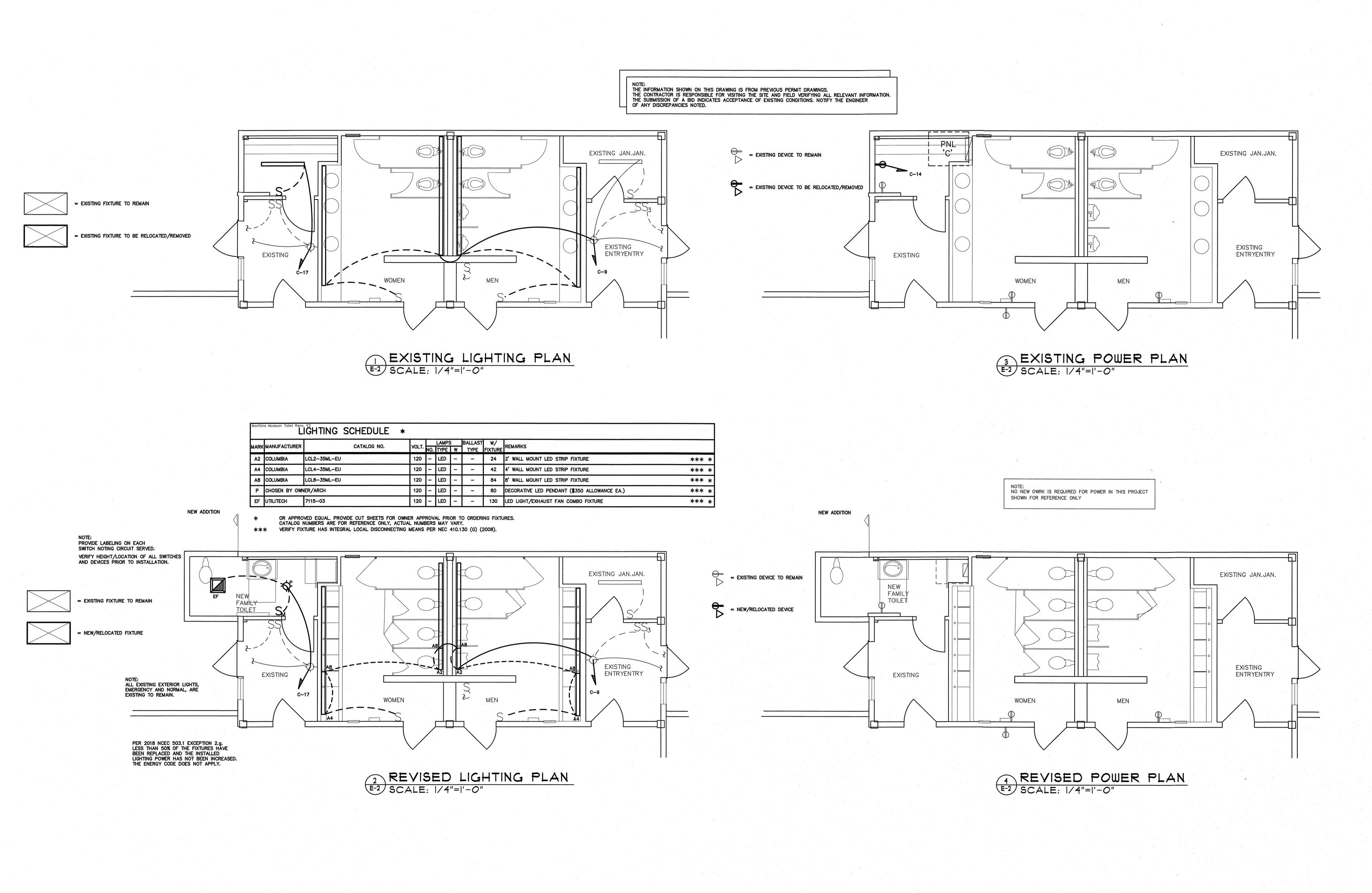
2/4/21 TOWN COMMENTS

REVISIONS

SHEET NO.

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ENGINEER



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Planning



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4206 Bridges St. Ext., Suite C Morehead City, NC 28557

OM REMODEL
RTH CAROLINA MUSEUM NORTH MARITIME EAUFORT, **HROOM**

M

10/7/20

PLUMBING PLAN

ISSUED: 9/10/2020 DWG BY: DS CKD BY: BEB REVISIONS

ENGINEER

BURICE DESIGN GROUP

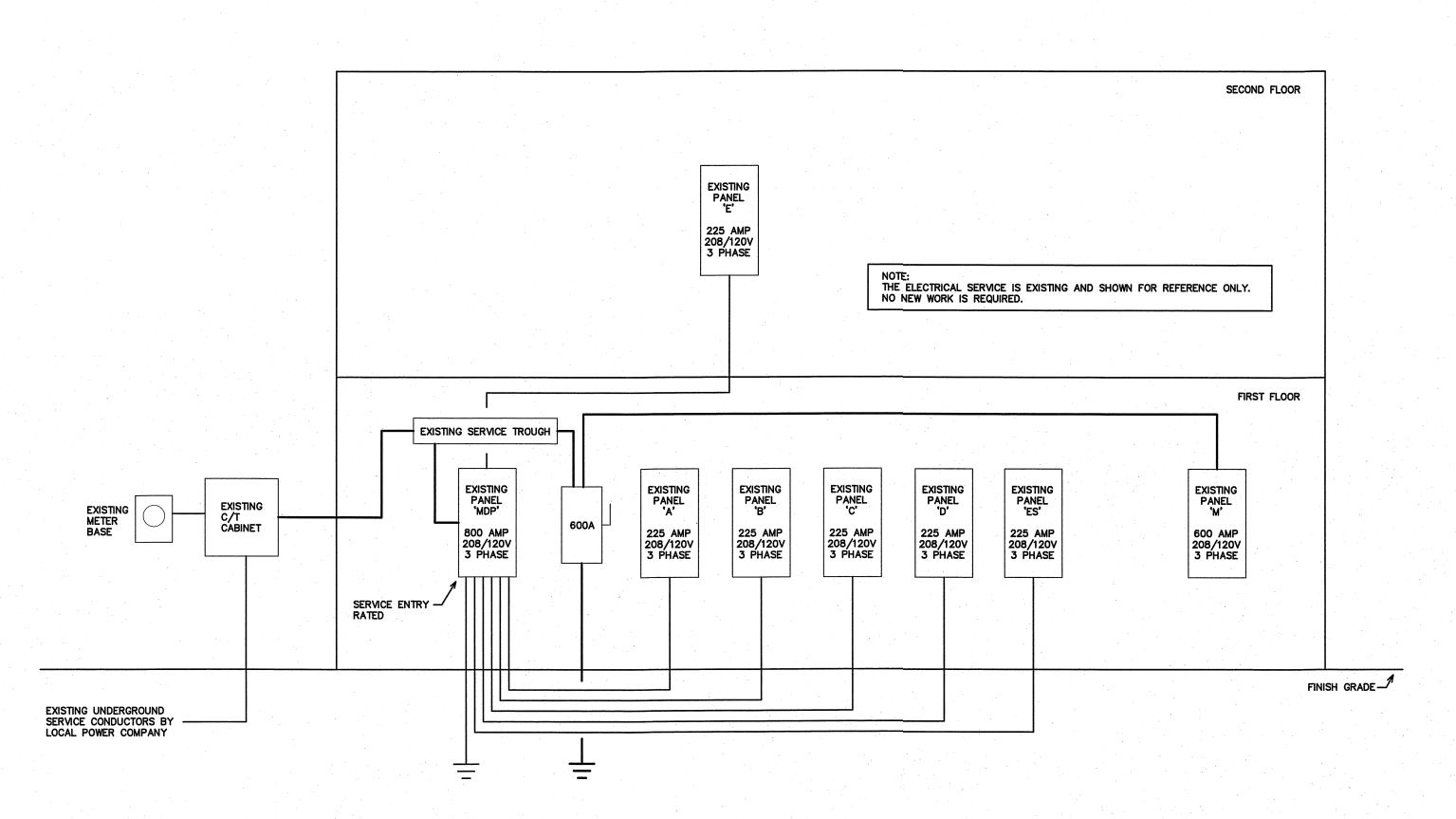
3305-109 DURHAM DRIVE
RALEIGH, NC 27603
PHONE: (919) 771-1916
FAX: (919) 779-0826
email: ben@bdg-nc.com
Corp. License # C-2652

SHEET NO. E-2

EXISTING PANEL— 'C'	MAKE: _ TYPE: _					208/12 G: _FLUS		PHAS	E <u>4</u> WRE				uit Breaker ID Bus	⊠(YES □NO
				М	NIMUM	AIC: V	ERIF	Υ		SER	VICE EN	ITRY R	ATED	□yes ⊠(no
LOAD SERVICE	CKT BRKR	WATTS A	S PER F	PHASE C	CKT NO	NEUT A B		CKT NO	WATTS	S PER I	PHASE C	CKT BRKR	•	LOAD ERVICE
LTS-120	20A				1		10	2				 	REC-118,120	
LTS-120	20A				3	\cap	1	4					REC-118,120	
LTS-125	20A				5		1	6				/	REC-118, EWC	
LTS-125	20A				7	$\overline{}$	\sim	8				20A	REC-DOOR SE	CURITY
LTS-122,123	20A				9	\cap	7	10				20A	REC-AMPLIFIER	
LTS-125	20A				11	$\overline{\Box}$	→	12				20A	REC-122,123	
LTS-125	20A				13	$\overline{}$	1	14					REC-121	·
REC-MECH RM & DECK	20A				15	\cap	7	16			-		WSHP #3	
LTS-EMERGENCY/EXIT	20A				17	\cap	7	18				40A	208V	
SPARE	20A				19		+	20					ЗРН	
WATER HEATER MECH 207	30A				21	\cap	4	22				20A	REC-MTP	
208V 1PH	JUA				23	\Box	5	24					SPACE	
SPARE	20A				25	\cap	4	26					SPACE	
SPACE					27		5	28					SPACE	
SPACE					29		5	30		-			SPACE	
SPACE					31	\cap	7	32					SPACE	
SPACE					33	\cap	4	. 34					SPACE	
SPACE					35	\Box	<u> </u>	36					SPACE	
SPACE					37	\cap	1	38					SPACE	
SPACE					39	\cap	+	40					SPACE	
SPACE					41	$\Delta \Pi$	40	42					SPACE	
NOTES SUB-	TOTALS 'B'				XXX	_225	5A	BUS				SUB-	TOTALS 'A'	
					-	225	5A	LUGS				SUB-	TOTALS 'B'	TAL CONNECTED LO
						225	5A	FEED				GRANI	TOTAL	INL COMMECTED L
						VER		SIZE	A	A	A	AMPS	/PHASE	

CIRCUIT SUMMARY									
CIRCUIT	EXISTING WATTAGE	REVISED WATTAGE							
C-9	960	468							
C-14	180	_							
C-17	70	210							
TOTALS	1210	678							

THE PANEL LOADS HAVE BEEN MAINTAINED OR REDUCED. PANEL SCHEDULES ARE NOT REQUIRED



ELEC. SERVICE RISER

E-3 SCALE: NTS

ENGINEER

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Architectural Design Planning Interiors



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MARITIME MUSEUM
ATHROOM ROOM REMODEL
BEAUFORT, NORTH CAROLINA BAT

6/7/20

SCHEDULES AND RISERS

 ISSUED:
 9/10/2020

 DWG BY:
 DS

 CKD BY:
 BEB
 REVISIONS

SHEET NO. E-3