

REPAIRS TO
CARTERET COMMUNITY
THEATRE
MOREHEAD CITY, NORTH CAROLINA

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- **Architectural Design**
- **Planning**
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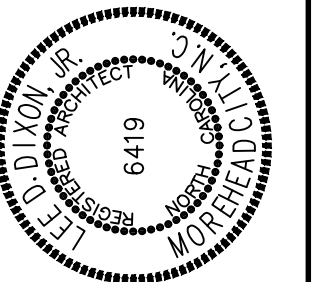
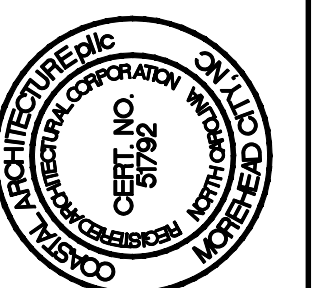
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REPAIRS TO
CARTER COMMUNITY THEATRE
MOREHEAD CITY, NORTH CAROLINA



OVER SHEET

24034

ISSUED: 24 JULY 24

WG BY: MSG

REVISIONS

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SHEET NO.

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APPENDIX B

2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: **CARTERET COMMUNITY THEATRE - REPAIRS**
Address: **MOREHEAD CITY, NORTH CAROLINA**
Owner/Authorized Agent: **LEE DIXON** Phone # (252) 247-2121 E-Mail **LEE@COASTALARCHITECTURE.NET**
Owned By: ☒ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☒ City **MOREHEAD CITY** ☐ County ☐ State

CONTACT:
DESIGNER **FIRM** **NAME** **LICENSE #** **TELEPHONE #** **E-MAIL**
Architectural **Coastal Architecture** **Lee Dixon** **6419** **(252) 247-2121** **lee@coastalarchitecture.net**
Civil **Burke Design Group** **Ben Burke** **22038** **(919) 771-1916** **benburke@ncrr.com**
Electrical **Burke Design Group** **Ben Burke** **22038** **(919) 771-1916** **benburke@ncrr.com**
Fire Alarm **Burke Design Group** **Ben Burke** **22038** **(919) 771-1916** **benburke@ncrr.com**
Plumbing **Burke Design Group** **Ben Burke** **22038** **(919) 771-1916** **benburke@ncrr.com**
Mechanical **Burke Design Group** **Ben Burke** **22038** **(919) 771-1916** **benburke@ncrr.com**
Sprinkler-Standpipe _____
Structural _____
Retaining Walls > 5 feet High _____
Other _____

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☐ New Building ☐ Shell/Core ☐ 1st Time Interior Completions
☐ Addition ☐ Phased Construction—Shell Core

2018 NC EXISTING BUILDING CODE: ☐ Prescriptive ☐ Alteration Level I ☐ Historic Property
(check all that apply) ☒ Repair ☐ Alteration Level II ☐ Change of Use
☐ Chapter 14 ☐ Alteration Level III

CONSTRUCTED: (date) _____ CURRENT USE(S) (Ch. 3): **A-1**
RENOVATED: (date) _____ PROPOSED USE(S) (Ch. 3): **A-1**
OCCUPANCY CATEGORY (Table 1604.5): Current: _____ Proposed: _____

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ II-B ☒ II-B ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D ☐ V-B
Sprinklers: ☒ No ☐ Partial ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☐ No ☐ Class ☐ II ☐ III ☐ Wet ☐ Dry ☐ SPRINKLER NOT REQUIRED 603.1
Primary Fire District: ☐ No ☐ Yes ☐ Flood Hazard Area: ☐ No ☐ Yes ☐ PRICE SPRINKLERS AS ALT.

SPECIAL INSPECTIONS REQUIRED: ☐ No ☐ Yes

GROSS BUILDING AREA TABLE

Floor	Existing (sq ft)	New (sq ft)	Subtotal
3rd Floor			
2nd Floor			
Mezzanine	158	158	158
1st Floor	8,199	8,199	8,199
Basement			
TOTAL	9,555	9,555	9,555

ENERGY REQUIREMENTS:

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 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: ☐ 3A ☐ 4A ☐ 5A

Method of Compliance:

Energy Code: ☐ Performance ☐ Prescriptive
ASHRAE 90.1: ☐ Performance ☐ Prescriptive
Other: ☐ Performance (specify source) _____

Thermal Envelope (Table 1604.5) (Ch. 3):
Roof/ceiling Assembly (each assembly):
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____
Exterior Walls (each assembly):
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing):
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____
Walls below grade (each assembly):
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Floors over unconditioned space (each assembly):
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: _____

PLEASE NOTE IN REPAIRS TO THIS BUILDING -
ADDITIONAL INSULATION HAS BEEN ADDED IN
ADDITION TO WHAT EXISTED PRIOR.

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly ☒ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Degenerate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2
I-2 Condition ☐ 1 ☐ 2
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): _____
Incidental Uses (Table 509): _____
This separation is not exempt as a Nonseparated Use (see exceptions).
Special Uses (Chapter 4 – List Code Sections): _____
Special Provisions: (Chapter 5 – List Code Sections): _____
Mixed Occupancy: ☒ No ☐ Yes Separation: No separation Hr: Exception: _____
Non-separated Use (508.3) required per 1508.4
Separated Use (508.4)—See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
Select one
Actual Area of Occupancy A + Actual Area of Occupancy B
Allowable Area of Occupancy A Allowable Area of Occupancy B 15
____ + _____ = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.24 AREA	(C) AREA FOR FRONTAGE INCREASES 1	(D) ALLOWABLE AREA PER STORY OR INCREASES 1
1	A-1	9,199	8,500	8,315	14,815

1. Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 3081 (F)
b. Total Building Perimeter = 3081 (P) I = [F/P - 0.25] x W/30
c. Ratio (F/P) = 1 (F/P) I = [1 - 0.25] x 1
d. W = Minimum width of public way = 30 (W) I = .75
2. Unlimited area applicable under conditions of Section 507.
3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4. The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
5. Frontage increase is based on the unsprinklered area value in Table 506.2.

STRUCTURAL DESIGN

DESIGN LOADS:
Importance Factors: Wind (IW) _____
Snow (IS) _____
Seismic (IE) _____
Live Loads: Roof _____ psf
Mezzanine _____ psf
Floor _____ psf
Ground Snow Load: _____ psf
Wind Load: Basic Wind Speed _____ mph (ASCE-7)
SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration SS _____ % S1 _____ %
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data
Basic structural system (check one)
☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☐ No
LATERAL DESIGN CONTROL: ☐ Earthquake ☐ Wind
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity _____ psf
Pile size, type, and capacity _____

ALLOWABLE HEIGHT EXISTING BUIDING REPAIRS

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	55	27	T504.3
Building Height in Stories (Table 504.4)	2	1	T504.4

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS EXISTING BUIDING REPAIRS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (feet)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQD	PROVIDED (W/ REDUCTION)				
Structural Frame including columns, girders, trusses							
Bearing Walls							
Exterior							
North	> 30	0	0				
East	< 30	0	0				
West							
South	> 30	0	0				
South	> 30	0	0				
Nonbearing walls and partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction including supporting beams and joists							
Floor Ceiling Assembly		0	0				
Columns Supporting Floors		0	0				
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly		0	0				
Columns Supporting Roof							
Shaft Enclosures—Exit							
Shaft Enclosures—Other							
Corridor Separation		-	-				
Occupancy/Fire Barrier Separation		-	-				
Party/Fire Wall Separation		-	-				
Smoke Barrier Separation		-	-				
Smoke Partition		-	-				
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation		-	-				

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.3)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
	SEE G-2		

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☒ Yes ☐ No
Exit Signs: ☒ Yes ☐ No
Fire Alarm: ☒ Yes ☐ No
Smoke Detection Systems: ☐ Yes ☒ No
Carbon Monoxide Detection: ☐ Yes ☒ No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: **G-2**
☒ 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 accommodate based on egress width (1005.3)
☒ Actual occupant load for each exit door
☒ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☒ Location of doors with panic hardware (1010.1.10)
☒ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☒ Location of doors with electromagnetic 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

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
		N/A					

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE UNITS PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESSIBLE	132" ACCESSIBLE	8' ACCESSIBLE	
		EXISTING				
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS/TUBS	DRINKING FOUNTAINS	
	Male	Female	Unisex		Male	Female	Unisex		Regular	Accessible
NEW	2	9	3	4	4	7	3	N/A	N/A	-
REQD	-	-	-	-	-	-	-	-	-	-

SPECIAL APPROVALS

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

4'-0"

8'-0"

BLUE BORDER STRIPE

1/2" EXTERIOR GRADE

PLYWOOD

UNITED BACKGROUND U.O.N.

BLUE LOGO

BLACK LETTERS U.O.N.

Carteret
community theatre

HUDSON BROTHERS
CONSTRUCTION COMPANY

ARCHITECT: Coastal Architecture
252.247.2127
www.coastalarchitecture.net

CONTRACTOR:
252.247.4401

P.T. 6x6 POSTS SET IN GROUND 2'-6" WITH 2-2x6 BRACES

SIGN LOCATION TO BE FIELD VERIFIED W/ ARCHITECT

NOTE: VERIFY SIGN SIZES AND REQUIREMENTS W/ TOWN OF SWANSBORO

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 required in fixture
number of lamps per fixture
ballast type used in 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

SEE ELECTRICAL

PROJECT SIGN

NOT TO SCALE

NOTE: SUBMIT SHOP DRAWING FOR COORDINATION OF LETTER HEIGHTS SPECIFIC SIGN COLORS.

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GENERAL DATA

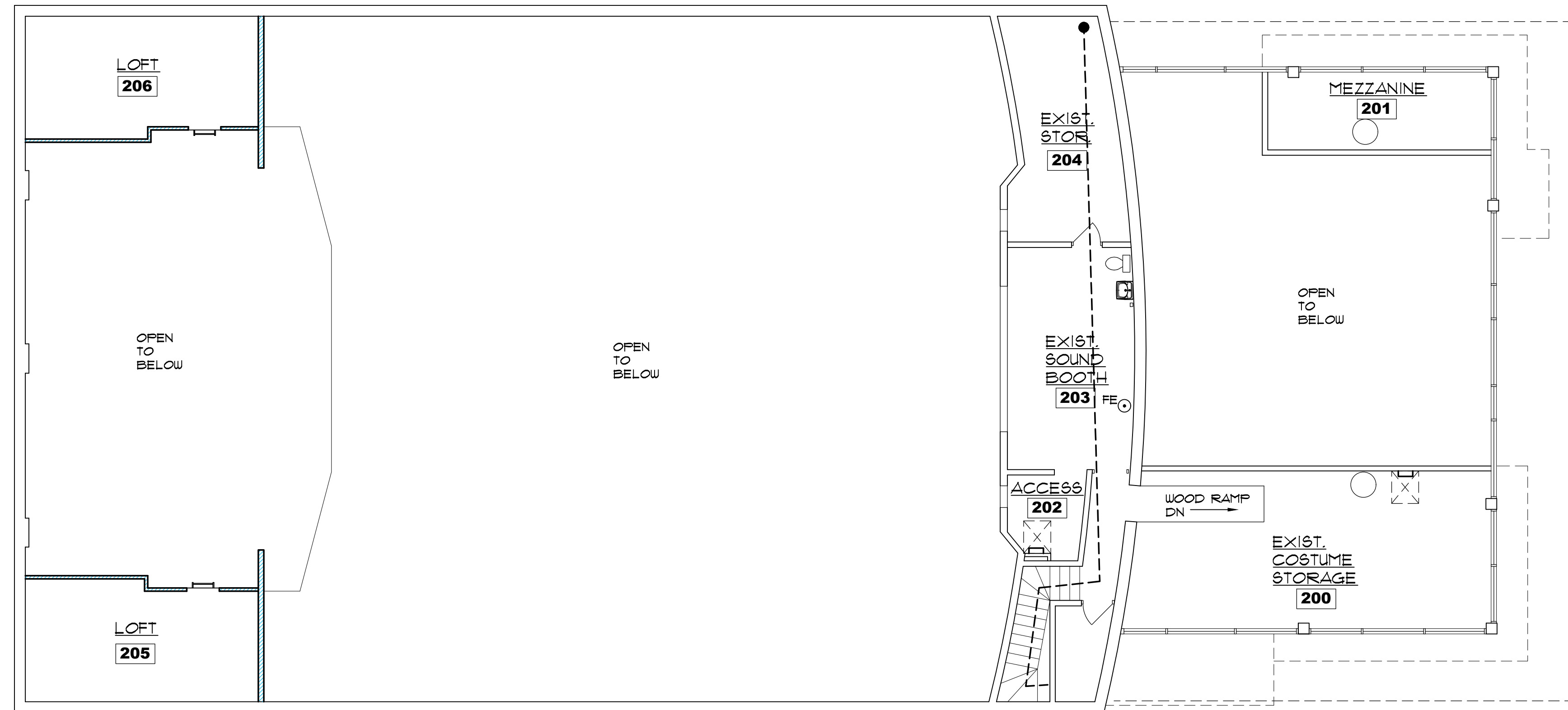
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344 ALLOWABLE OCCUPANTS	135 ACTUAL OCCUPANTS
EXIT CAPACITY	

PROPERTY LINE/PUBLIC WAY > 30'

NO LIMIT OF OPENING

2
G-2 MEZZANINE LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

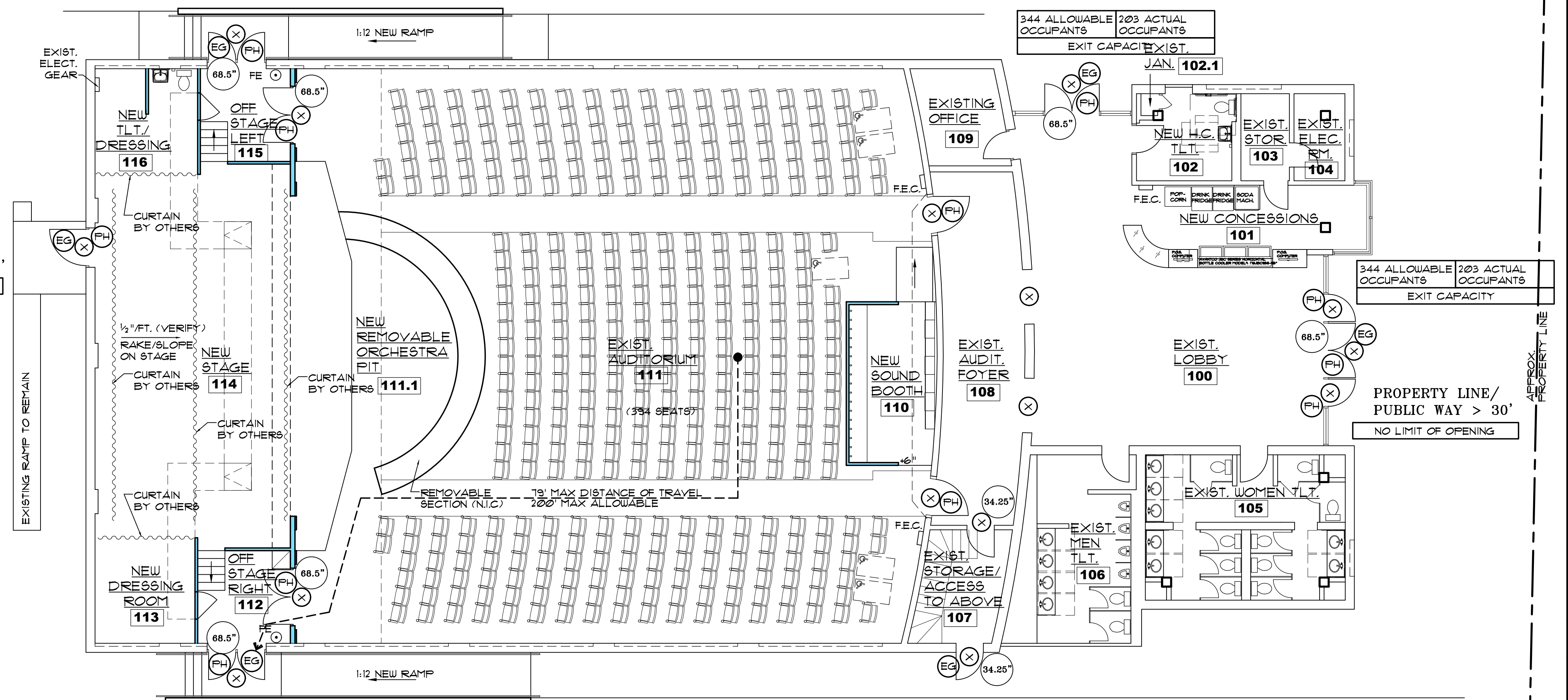
OCCUPANCY/LOAD TYPE KEYING:

A-1 = ASSEMBLY

LEGEND:

- FE ○ = FIRE EXTINGUISHER ON STANDARD HOOK
- F.E.C. = FIRE EXTINGUISHER AND CABINET
LARSEN SEMI-RECESSED FS 2403-R3
BRUSHED CHROME W/ MP5 FIRE EXTINGUISHER
- 34.25" = CLEAR EXIT WIDTH
- 68.5" = CLEAR EXIT WIDTH
- X = EXIT (SEE ELECTRICAL FOR DIRECTIONAL SIGNAGE)
- BA = BUILDING ADDRESS- 6" MIN. HEIGHT, ON
CONTRASTING BACKGROUND, READILY VISIBLE FROM
STREET
- KB = KNOX BOX, FIRE DEPARTMENT KEY LOCK BOX
CONFIRM LOCATION, BRAND AND ORDERING
INFORMATION W/ FIRE DEPARTMENT
- PH = PANIC HARDWARE
- EM = EMERGENCY LIGHT
- EG = EGRESS LIGHT

PROPERTY LINE > 30'
NO LIMIT OF OPENING



344 ALLOWABLE OCCUPANTS	135 ACTUAL OCCUPANTS
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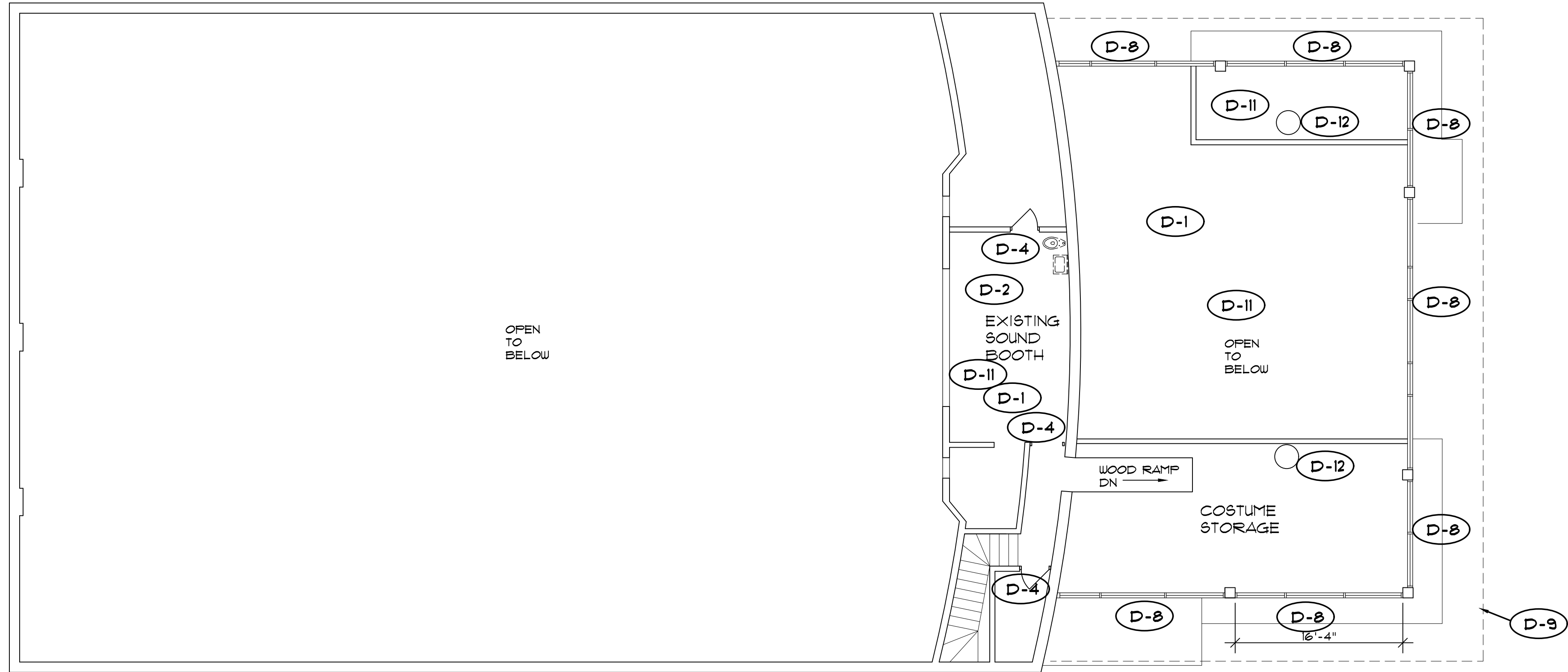
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NO LIMIT OF OPENING

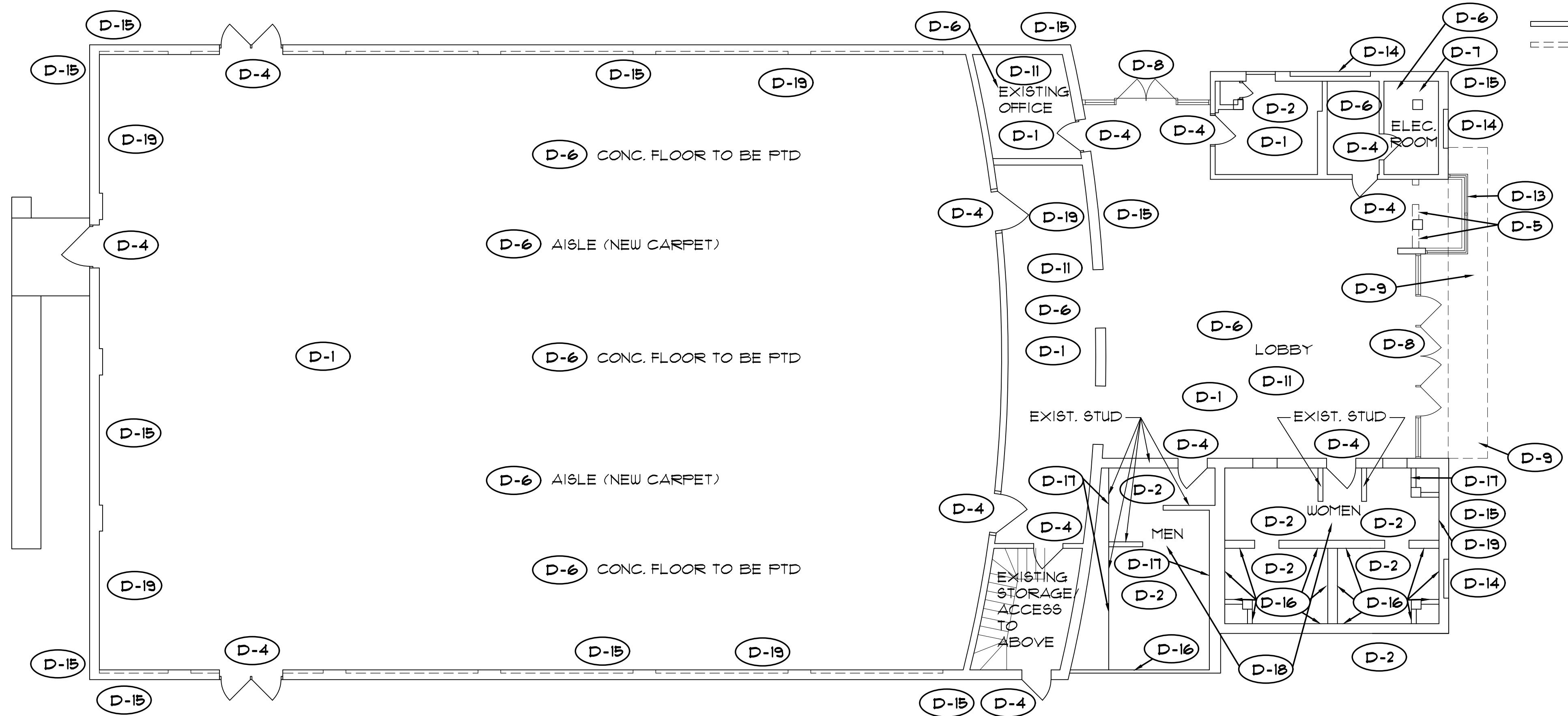
171 ALLOWABLE OCCUPANTS
EXIT CAPACITY

1
G-2 FIRST FLOOR LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

NOTE: THIS IS AN EXISTING BUILDING UNDERGOING
REPAIRS - ALL EXITS ARE EXISTING



2 EXISTING MEZZANINE FLOOR PLAN/ DEMO PLAN
D-1 SCALE: 1/8" = 1'-0"



1 EXISTING FIRST FLOOR PLAN/ DEMO PLAN
D-1 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- SEE ALSO 7/24/24 PHOTOS
- CONTRACTORS TO RECIEVE EXISTING CONDITION IN THE FIELD

WALL LEGEND

- EXISTING WALL
- - - WALLS TO BE REMOVED

DEMO NOTES:

- D-1: REMOVE ALL REMAINING MISC. CONDUITS, WIRING, LIGHTING, ETC. -SEE ALSO FME PLANS
- D-2: EXISTING FLOORING TO REMAIN TO BE CLEANED
- D-3: REMOVE EXISTING TOILET ROOM FIXTURES, COMPONENTS, WALL & FLOOR TILE- PREPARE FOR NEW TOILET ROOM
- D-4: REMOVE EXISTING DOOR AND/OR FRAME
- D-5: REMOVE PORTION OF EXISTING WALL REQUIRED FOR NEW PLAN
- D-6: PREP NEW FLOOR
- D-7: REMOVE EXISTING SHELVING
- D-8: REMOVE EXISTING STOREFRONT SYSTEM
- D-9: PREVIOUSLY REMOVED EXISTING HANGING SOFFIT STRUCTURE
- D-10: REMOVE EXISTING FRAMING AND ELECTRICAL.
- D-11: REMOVE ALL REMAINING HVAC DUCT AND COMPONENTS -SEE ALSO MECHANICAL PLANS
- D-12: REMOVE EXISTING WATER HEATER -SEE ALSO PLUMBING PLANS
- D-13: REMOVE EXISTING WINDOW
- D-14: REPAIR/CEALN EXISTING DISPLAY CASE FRAME AND GLASS
- D-15: CLEAN EXISTING BRICK
- D-16: EXIST WALL TILE TO REMAIN - CLEAN AND REPAIR
- D-17: PREP FOR NEW TILE ON EXISTING WALL
- D-18: FLOOR TILE TO REMAIN -CLEAN AND REPAIR
- D-19: EXISTING EXPOSED BRICK TO REMAIN -CLEAN



- Architectural Design
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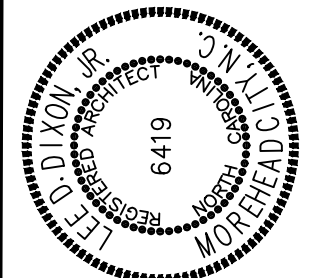
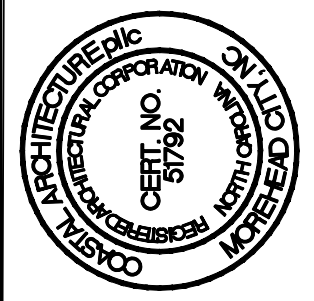
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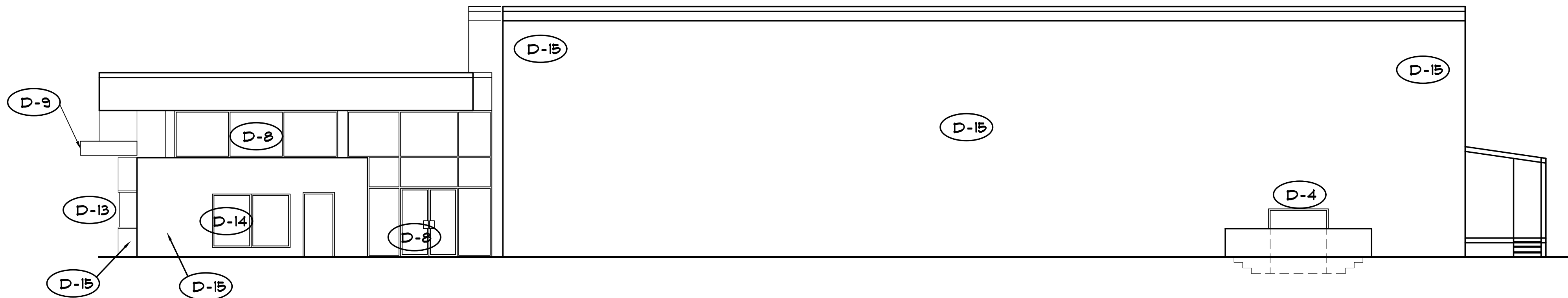
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OF

GENERAL NOTES:

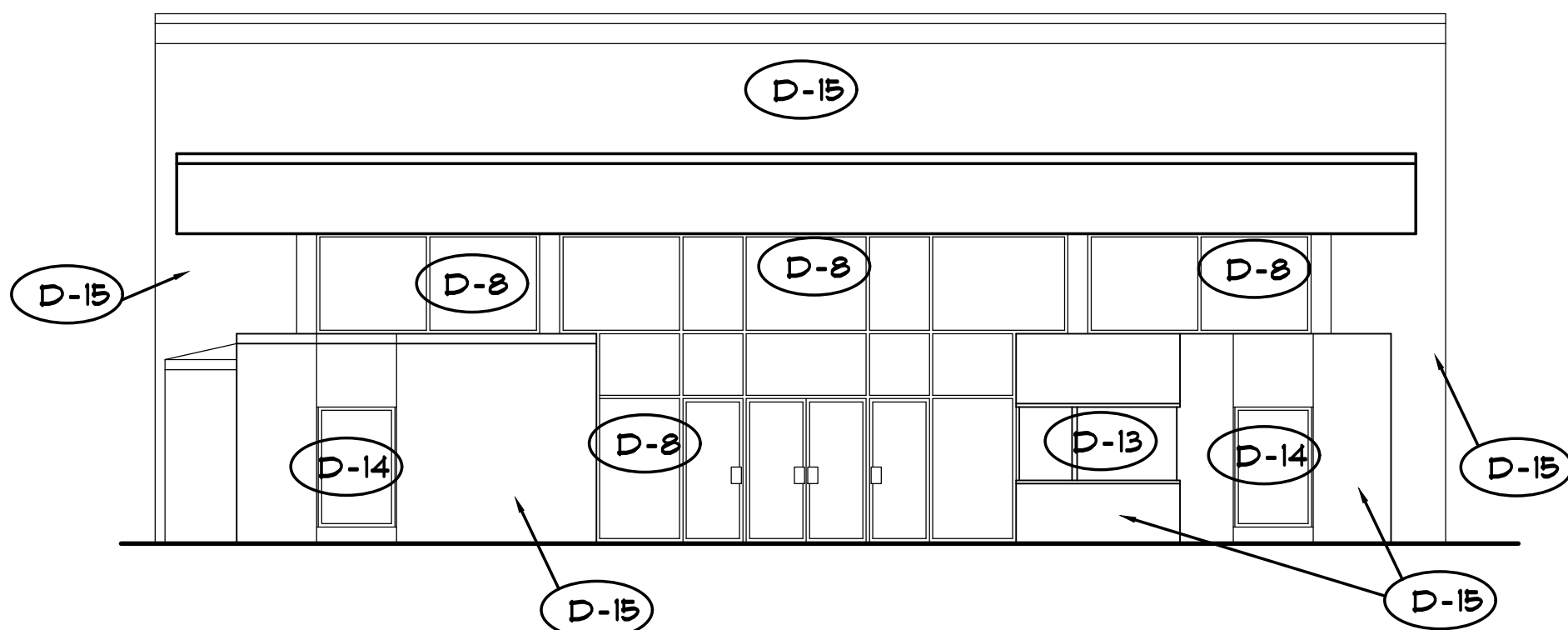
- SEE ALSO 7/24/24 PHOTOS
- CONTRACTORS TO RECIEVE EXISTING CONDITION IN THE FIELD

DEMO NOTES:

- D-1: REMOVE ALL REMAINING MISC. CONDUITS, WIRING, LIGHTING, ETC. -SEE ALSO FME PLANS
- D-2: EXISTING FLOORING TO REMAIN TO BE CLEANED
- D-3: REMOVE EXISTING TOILET ROOM FIXTURES, COMPONENTS, WALL & FLOOR TILE- PREPARE FOR NEW TOILET ROOM
- D-4: REMOVE EXISTING DOOR AND/OR FRAME
D-5: REMOVE PORTION OF EXISTING WALL REQUIRED FOR NEW PLAN
- D-6: PREP NEW FLOOR
- D-7: REMOVE EXISTING SHELVING
- D-8: REMOVE EXISTING STOREFRONT SYSTEM
- D-9: PREVIOUSLY REMOVED EXISTING HANGING SOFFIT STRUCTURE
- D-10: REMOVE EXISTING FRAMING AND ELECTRICAL.
- D-11: REMOVE ALL REMAINING HVAC DUCT AND COMPONENTS -SEE ALSO MECHANICAL PLANS
- D-12: REMOVE EXISTING WATER HEATER -SEE ALSO PLUMBING PLANS
- D-13: REMOVE EXISTING WINDOW
- D-14: REPAIR/CEALN EXISTING DISPLAY CASE FRAME AND GLASS
- D-15: CLEAN EXISTING BRICK
- D-16: EXIST WALL TILE TO REMAIN - CLEAN AND REPAIR
- D-17: PREP FOR NEW TILE ON EXISTING WALL
- D-18: FLOOR TILE TO REMAIN -CLEAN AND REPAIR
- D-19: EXISTING EXPOSED BRICK TO REMAIN -CLEAN



2
D-2
EXISTING RIGHT ELEVATION
SCALE: 1/8"=1'-0"

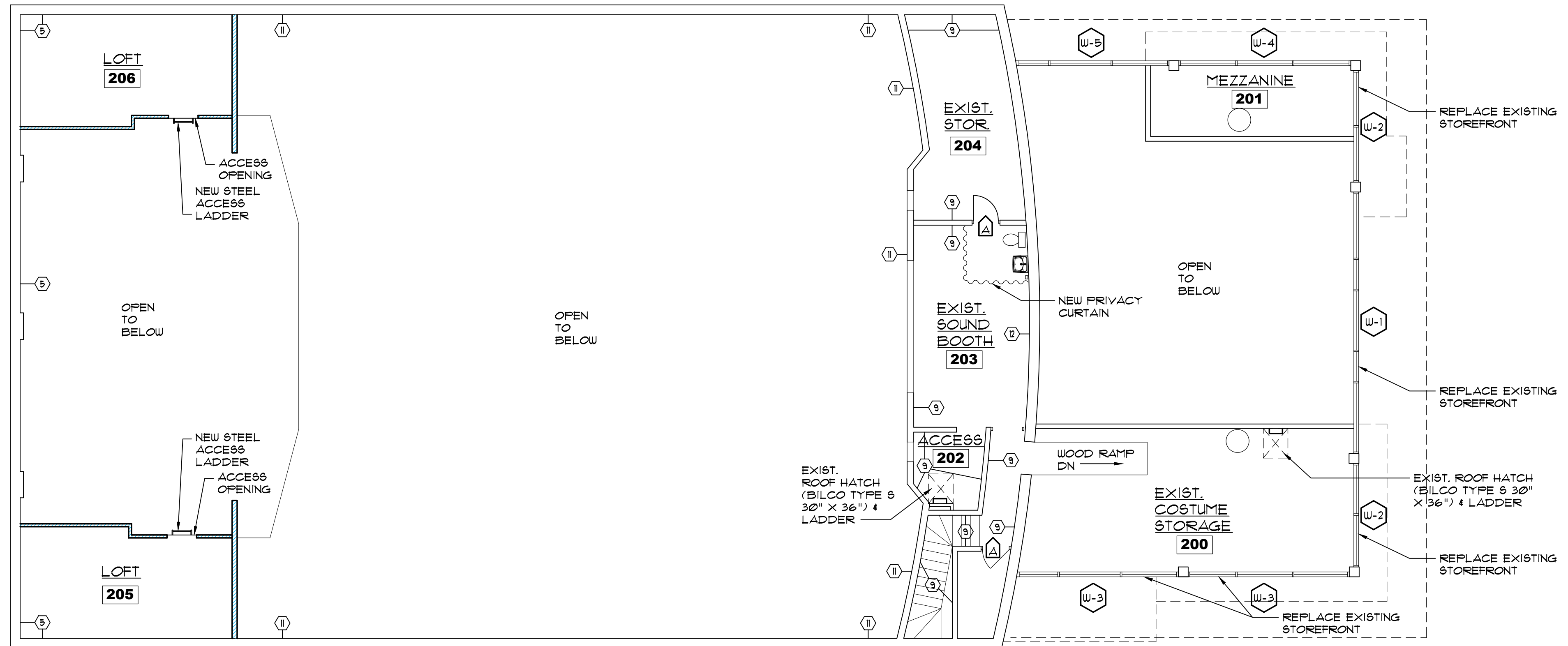


1
D-2
EXISTING FRONT ELEVATION/ DEMO NOTES
SCALE: 1/8"=1'-0"

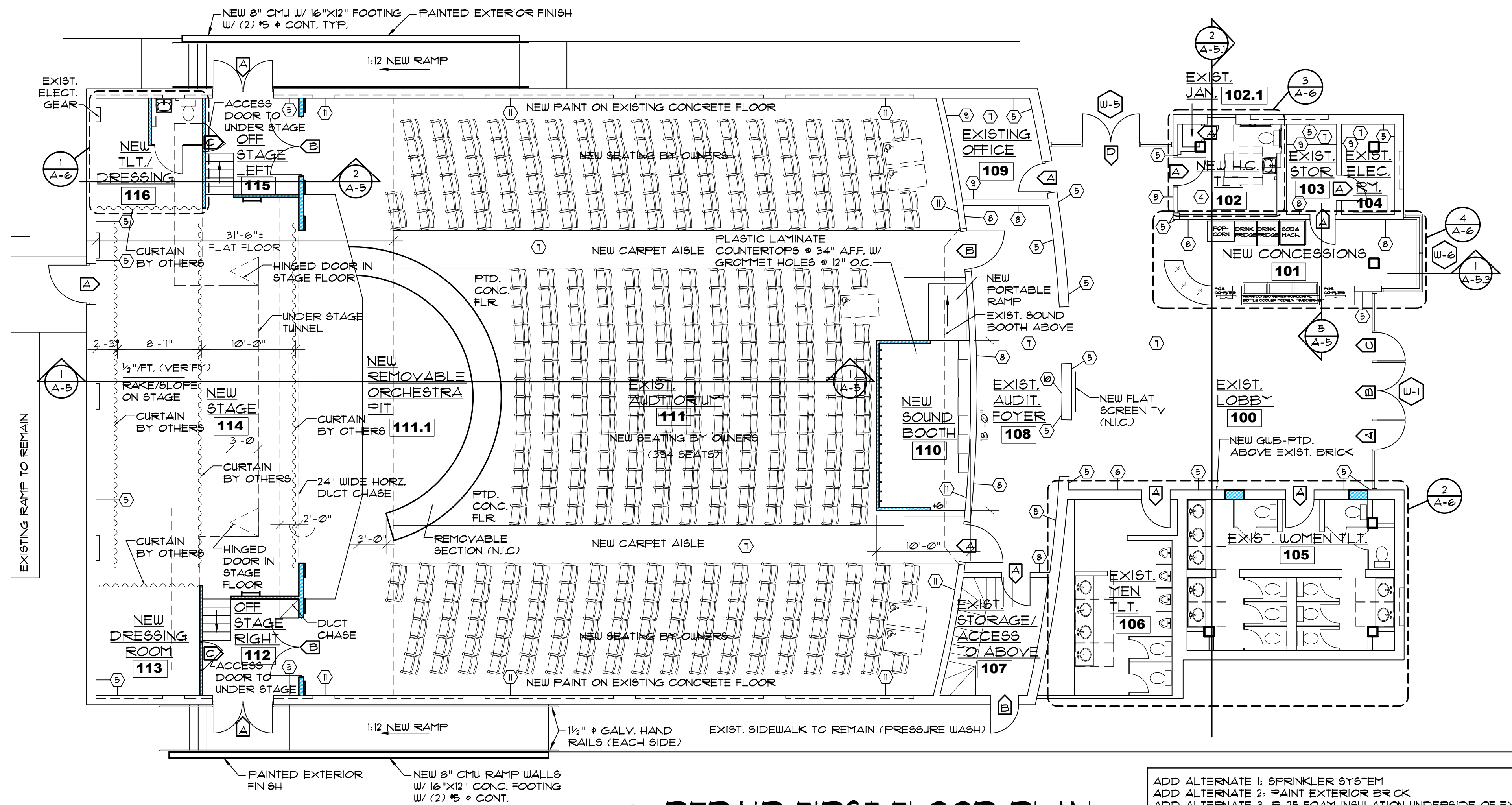
NOTE:
THIS DRAWING IS FOR REPRESENTATION
OF EXISTING CONDITIONS ONLY. G.C. TO
FIELD VERIFY ALL CONDITIONS PRIOR
TO SUBMITTING A BID.

KEY NOTES:

- ① NEW TILE TO MATCH EXISTING ON EXISTING WALL.
② NEW TILE ON BACKER BOARD ON EXISTING STUDS.
③ EXISTING WALL TILE TO REMAIN.
④ EXISTING FLOOR TILE TO REMAIN.
⑤ EXISTING EXPOSED BRICK TO REMAIN.
⑥ NEW GWB-PTD. ON EXISTING STUDS.
⑦ PREP FOR NEW FLOORING - SEE ROOM FINISH SCHEDULE.
⑧ NEW 5/8" GWB-PTD. ON EXISTING WALL.
⑨ EXISTING MASONRY TO BE PAINTED.
⑩ FILL EXISTING HOLE W/ BRICK.
⑪ EXISTING MASONRY TO REMAIN (CURTAINS BY OWNER).
⑫ EXISTING BRICK - REPAINT BLACK.

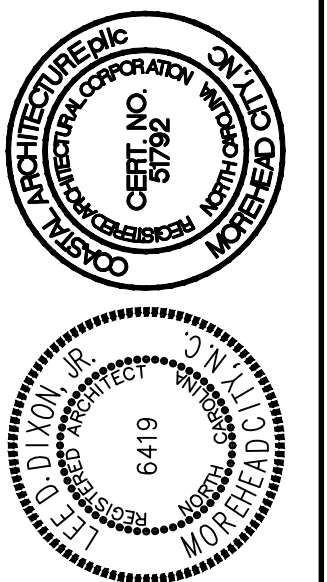


2 REPAIR MEZZANINE PLAN
A-1 SCALE: 1/8" = 1'-0"



1 REPAIR FIRST FLOOR PLAN
A-1 SCALE: 1/8" = 1'-0"

ADD ALTERNATE 1: SPRINKLER SYSTEM
ADD ALTERNATE 2: PAINT EXTERIOR BRICK
ADD ALTERNATE 3: R-25 FOAM INSULATION UNDERSIDE OF EXISTING ROOF DECK AND WALL CAVITY FOAM INSULATION



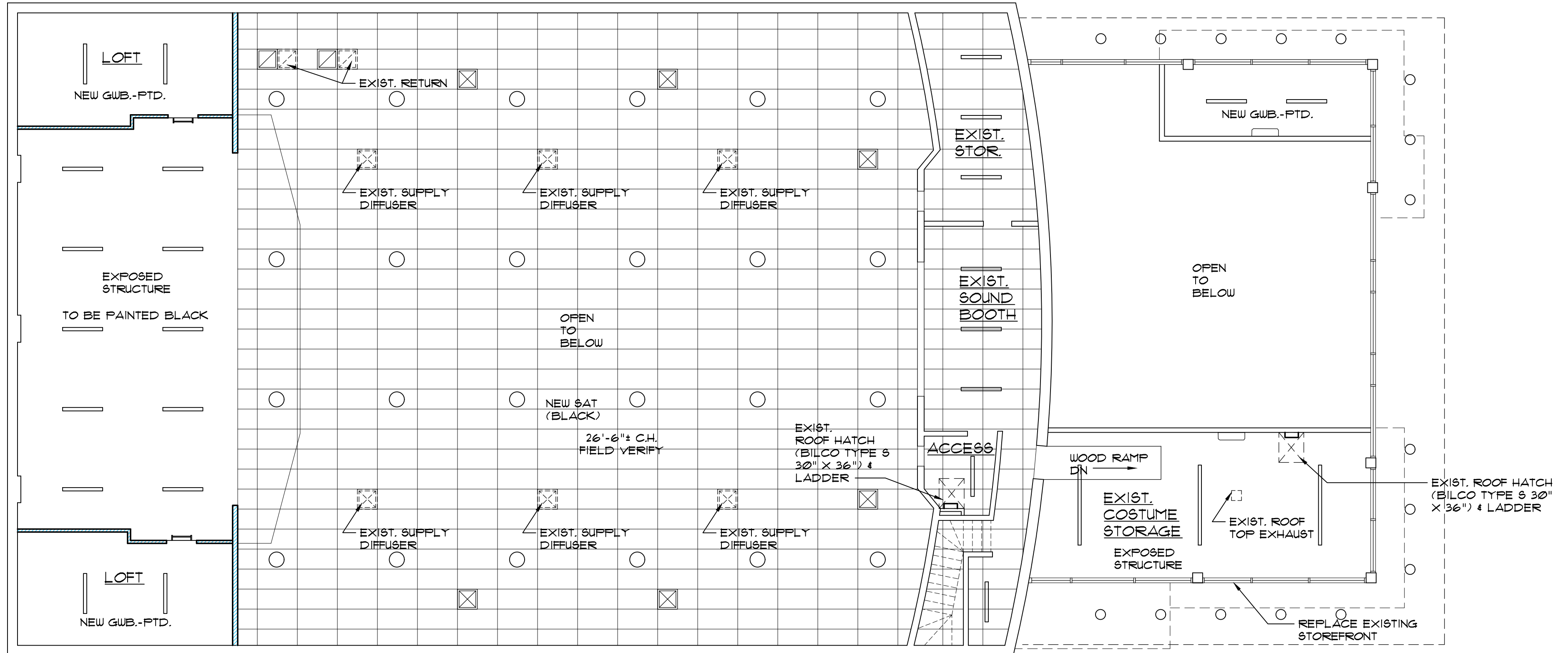
REPAIR FLOOR PLAN

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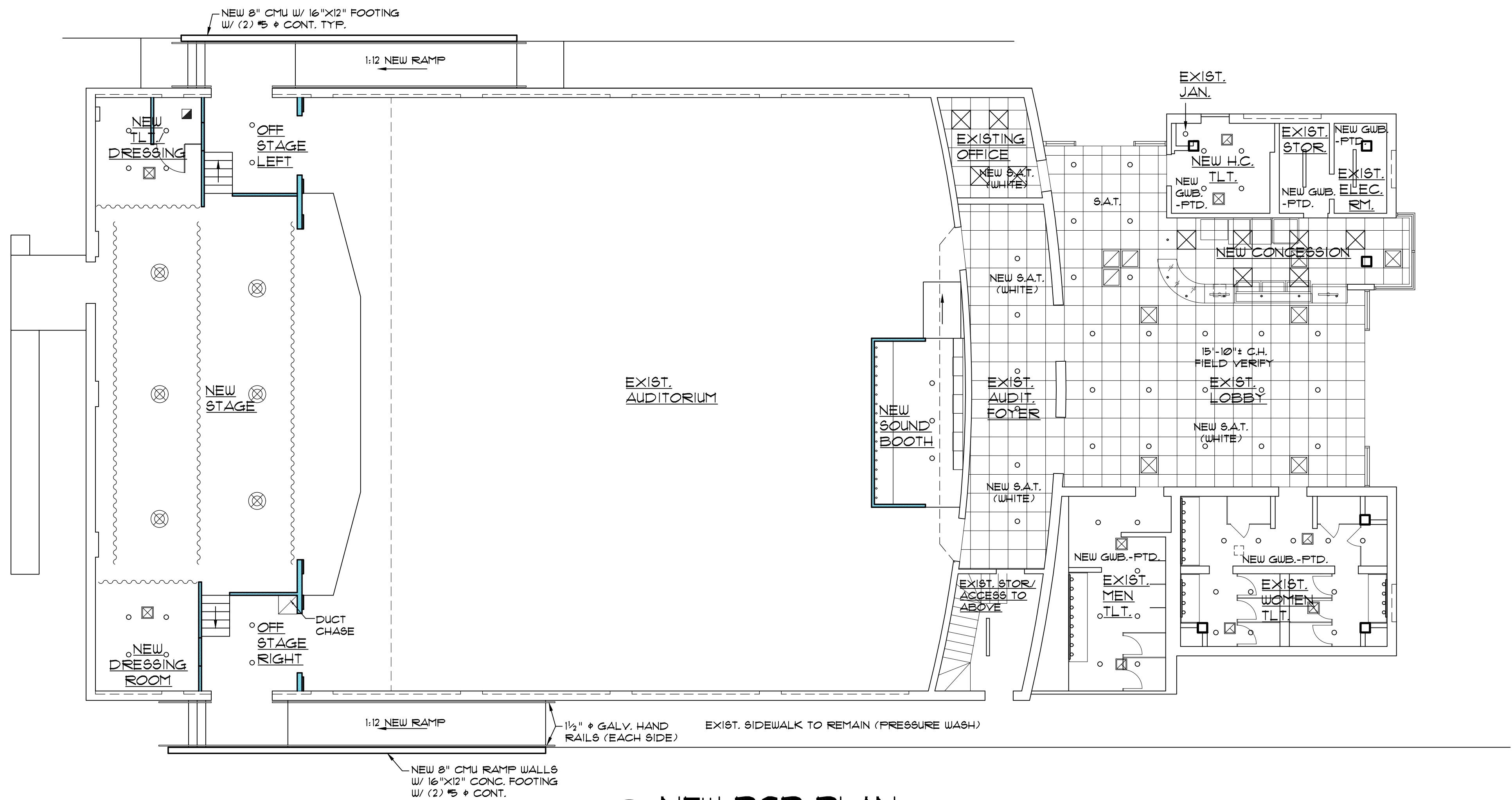
ISSUED: 24 JULY 24
DWG BY: MSG
CKD BY: LDD

REVISIONS

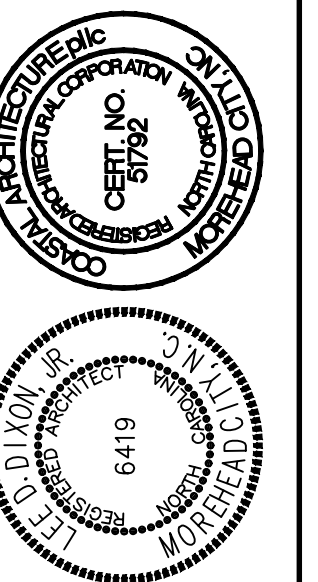
SHEET NO.
A-1
OF



2 NEW MEZZANINE PLAN
A-1 SCALE: 1/8"=1'-0"



1 NEW RCP PLAN
A-1 SCALE: 1/8"=1'-0"



REFLECTED
CEILING PLAN

24034

ISSUED: 24 JULY 24
DWG BY: MSG
CKD BY: LDD

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SHEET NO.
A-2
OF

WINDOW SCHEDULE				
MARK	TYPE	SIZE	MODEL	REMARKS
W-1	ALUM. STOREFRONT	24'-5" x 15'-6" FIXED	KAUNEER OR EQUAL	FIELD VERIFY
W-2	ALUM. STOREFRONT	11'-2" x 5'-0" FIXED		FIELD VERIFY
W-3	ALUM. STOREFRONT	16'-4" x 5'-0" FIXED		FIELD VERIFY
W-4	ALUM. STOREFRONT	17'-5" x 5'-0" FIXED		FIELD VERIFY
W-5	ALUM. STOREFRONT	15'-6" x 15'-6" FIXED		FIELD VERIFY
W-6	SEE EXTERIOR ELEVATIONS			FIELD VERIFY

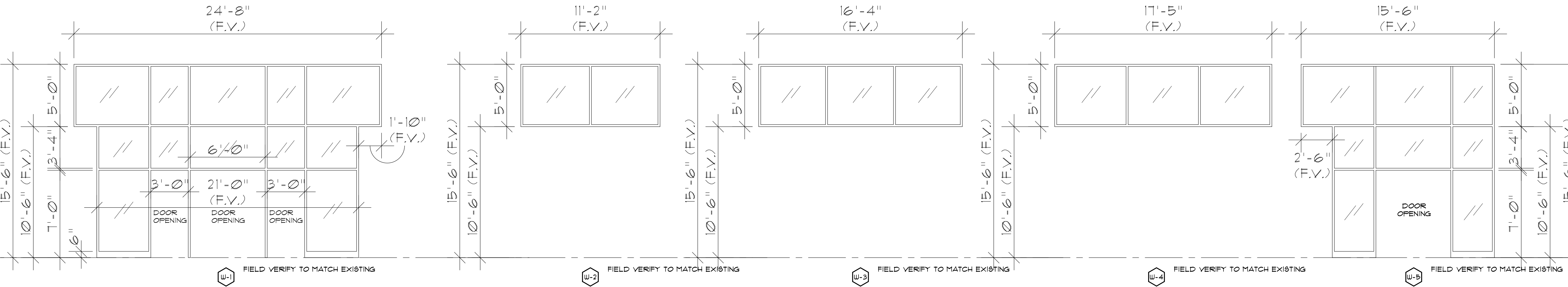
FIELD VERIFY ALL STOREFRONT OPENINGS PRIOR TO MANUFACTURING
ALL EXTERIOR ALUM. FRAMES TO BE LIGHT BRONZE (GOLD) COLOR- SUBMIT SAMPLES FOR APPROVAL
ALL EXTERIOR FRAMES AND GLAZING TO MEET REQUIRED WIND LOADS
GLAZING TO BE 1" INSULATED SOLAR GREY

DOOR SCHEDULE					
DOOR NO.	SIZE	DOOR MAT. TYPE	FRAME MAT. TYPE	DETAILS	REMARKS
100A	3'-0" x 7'-0"	ALUM.	B	ALUM. W-1	①②
100B	(2) 3'-0" x 7'-0"	ALUM.	A	ALUM. W-1	①②
100C	3'-0" x 7'-0"	ALUM.	B	ALUM. W-1	①②
100D	(2) 3'-0" x 7'-0"	ALUM.	A	ALUM. W-5	①②
102A	3'-0" x 7'-0"	WD	C	HT 1	
103A	2'-8" x 7'-0"	WD	D	HT 2	
104A	2'-8" x 7'-0"	WD	D	HT 2	
105A	3'-0" x 7'-0"	WD	C	HT 1	③④
106A	3'-0" x 7'-0"	WD	C	HT 1	③④
107A	3'-0" x 7'-0"	WD	C	HT 1	②
107B	3'-0" x 7'-0"	HM	F	HT 5	②
109A	3'-0" x 7'-0"	WD	C	HT 5	
111A	4'-0" x 7'-0" (F.V.)	WD	E	HT 4	③④
111B	4'-0" x 7'-0" (F.V.)	WD	E	HT 4	③④
112A	(2) 3'-0" x 7'-0"	HM	F	HT 5	②
112B	(2) 3'-0" x 7'-0"	WD	C	HT 3	④
112C	3'-0" x 3'-0"	WD	H	HT 8	⑤
114A	4'-0" x 7'-0" (F.V.)	HM	G	HT 6	②
115A	(2) 3'-0" x 7'-0"	HM	F	HT 5	②
115B	(2) 3'-0" x 7'-0"	WD	C	HT 3	④
115C	3'-0" x 3'-0"	WD	H	HT 8	⑤
240A	2'-8" x 7'-0" (F.V.)	WD	D	HT 2	⑥
240A	3'-0" x 7'-0" (F.V.)	WD	C	HT 1	

- ① ALL EXTERIOR ALUM. FRAMES AND DOORS TO BE LIGHT BRONZE (GOLD) COLOR - SUBMIT SAMPLES FOR APPROVAL
② PANIC HARDWARE AND CLOSERS
③ CLOSERS
④ PUSH/PULL/KICK PLATE
⑤ PAINTED BLACK
⑥ REUSE FRAME IS POSSIBLE
- F.V. = FIELD VERIFY
- FIELD VERIFY ALL EXISTING MASONRY OPENINGS

ROOM FINISH SCHEDULE						
ROOM NUMBERS	ROOM	FLOORS	BASE	WALLS	CEILINGS	HEIGHT (NOMINAL)
1ST FLOOR						
100	EXISTING LOBBY	NEW LVP	NEW WD.	BRICK/GUB-PTD	NEW S.A.T.	15'-10"
101	NEW CONCESSIONS	NEW LVP	NEW WD.	NEW GUB-PTD	NEW S.A.T.	15'-10"
102	NEW HANDICAP TOILET	EXISTING	-	NEW TILE	NEW GUB-PTD	8'-2"
102.1	EXISTING JANITOR	EXISTING	-	PAINT EXISTING		
103	EXISTING STORAGE	NEW LVP	VINYL	EXP. BRICK - PTD CMU		
104	EXISTING ELECTRICAL ROOM	SEALED CONC.	NEW VINYL	REPAINT EXISTING	NEW GUB-PTD	8'-2" FIELD VERIFY
105	EXISTING WOMEN TOILET	EXISTING	-	SEE 2/A-6		②
106	EXISTING MEN TOILET	EXISTING	-	SEE 2/A-6		②
107	EXIST. STORAGE/ACCESS TO ABOVE	SEALED CONC.	-	PAINT EXIST.	EXPOSED-PTD	EXPOSED
108	EXISTING AUDITORIUM FOYER	NEW LVP	NEW WD.	EXIST. BRICK/NEW GUB PTD	NEW SAT	MATCH EXIST.
109	EXISTING OFFICE	EXISTING	NEW WD.	SEE A-1		MATCH EXIST.
110	NEW SOUND BOOTH	NEW CARPET	-	EXIST. MASONRY		26"± FIELD VERIFY
111	EXISTING AUDITORIUM	CONC. PTD/CARPET	-	EXIST. BRICK		
111.1	NEW REMOVABLE ORCHESTRA PIT	CONC. PTD	-			
112	OFF STAGE RIGHT		-	NEW GUB-PTD	EXPOSED	EXP. STRUCTURE
113	NEW DRESSING ROOM			NEW GUB-PTD	NEW GUB-PTD	VERIFY
114	NEW STAGE	PLYWD. - PTD		EXIST. BRICK/GUB PTD.		
115	OFF STAGE LEFT	CONC. PTD		NEW GUB-PTD		
116	NEW TLT./DRESSING	CONC. PTD	VINYL	NEW GUB-PTD		
2ND FLOOR						
200	EXISTING COSTUME STORAGE	EXIST. CONC.	N/A	EXPOSED	EXPOSED	FIELD VERIFY
201	MEZZANINE				NEW SAT	
202	ACCESS				NEW SAT	
203	EXISTING SOUND BOOTH				NEW SAT	
204	EXISTING STORAGE				EXPOSED	
205	LOFT	NEW PLYWOOD			EXPOSED	
206	LOFT	NEW PLYWOOD			EXPOSED	

- ① SEE A-1 KEYNOTE
② SEE A-6 KEYNOTE
③ CURTAINS BY OWNER



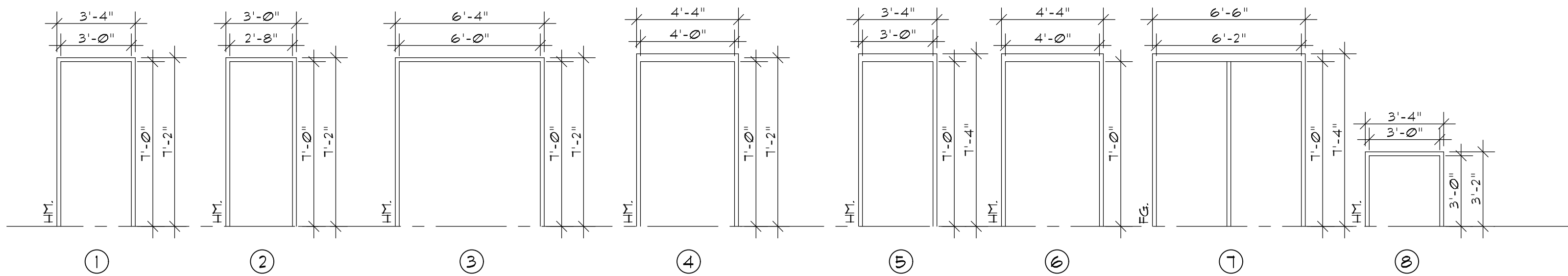
FIELD VERIFY ALL EXISTING STOREFRONTS TO BE REPLACED.

ALL ALUMINUM FRAMES TO BE LIGHT BRONZE (GOLD) COLOR- SUBMIT SAMPLES FOR APPROVAL.

3 WINDOW ELEVATIONS

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

W-6 SEE EXTERIOR ELEVATIONS (FIELD VERIFY SIZE)

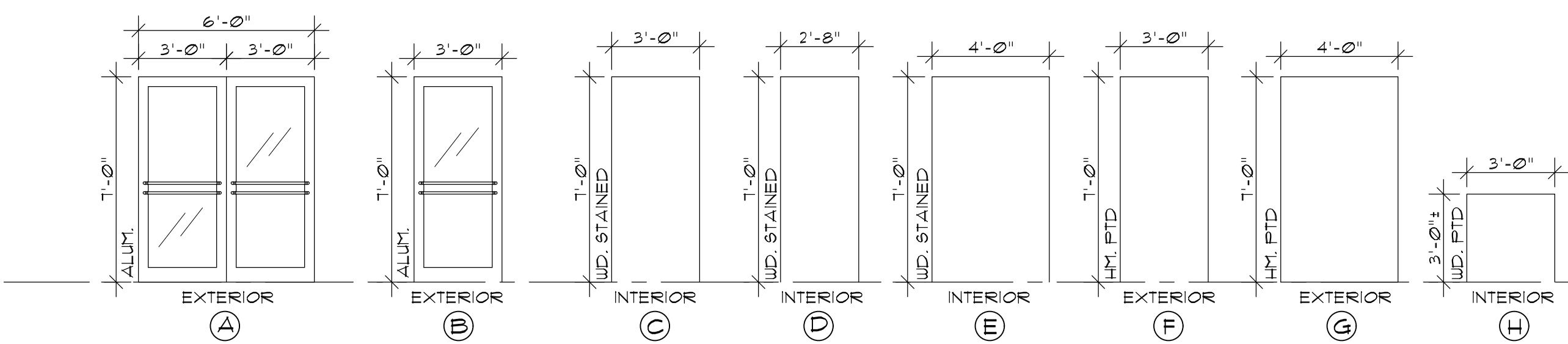


ALL ALUMINUM FRAMES TO BE LIGHT BRONZE (GOLD) COLOR- SUBMIT SAMPLES FOR APPROVAL

VERIFY ALL HEAD HEIGHT DIMENSIONS WITH EXISTING MASONRY COURSING

2 DOOR FRAME ELEVATIONS

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



ALL ALUMINUM DOORS TO BE LIGHT BRONZE (GOLD) COLOR - SUBMIT SAMPLES FOR APPROVAL

1 DOOR ELEVATIONS

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

Coastal Architecture

• Architectural Design
• Planning
• Interiors

AIA

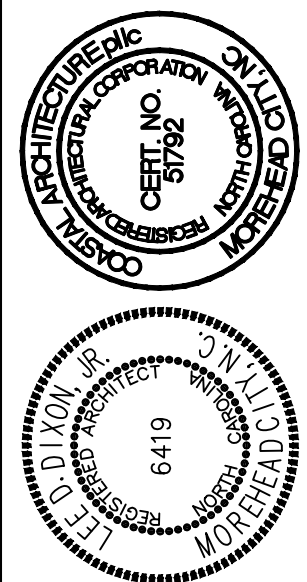
Member of the American Institute of Architects

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REPAIRS TO
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MOREHEAD CITY, NORTH CAROLINA



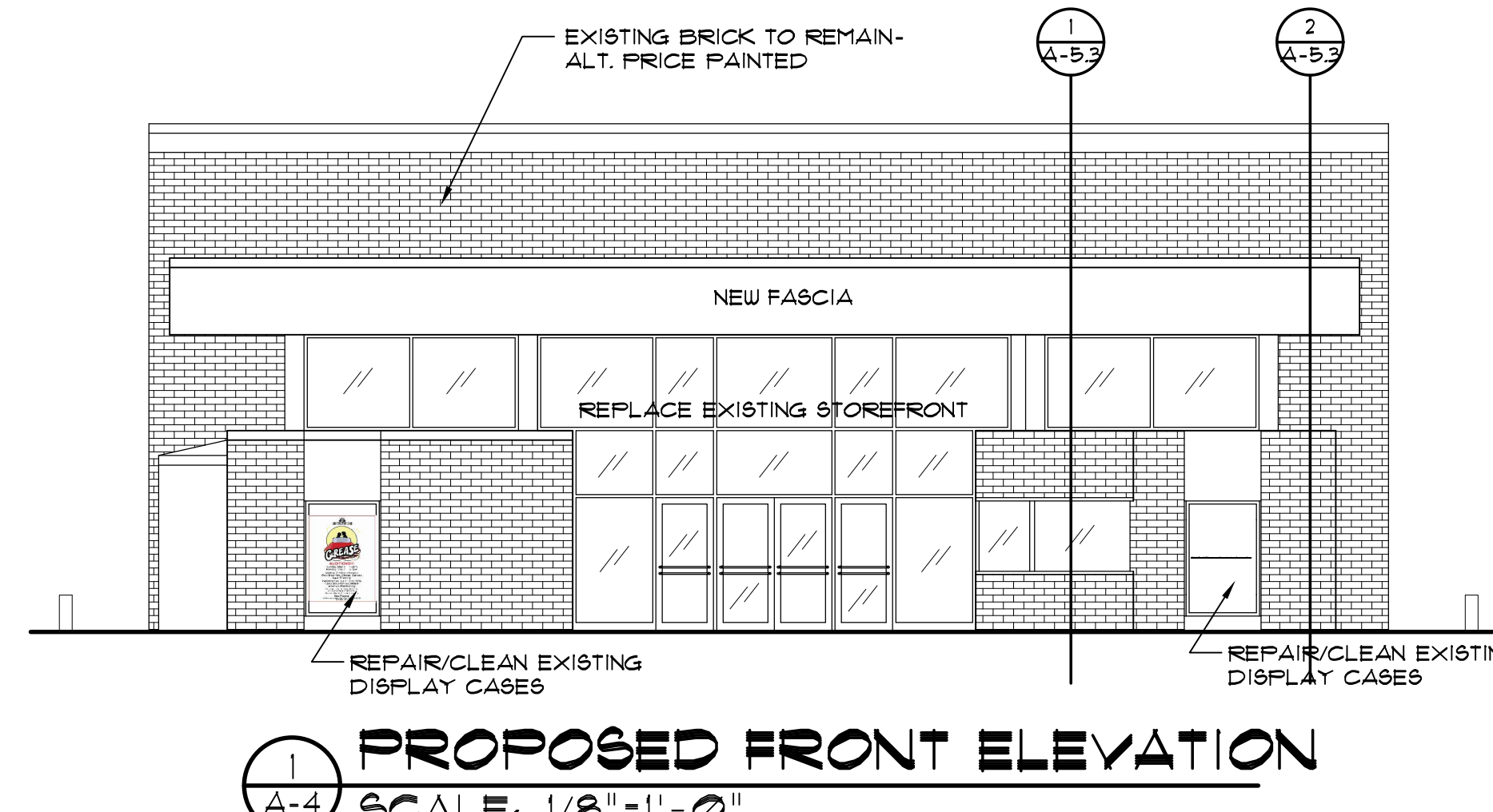
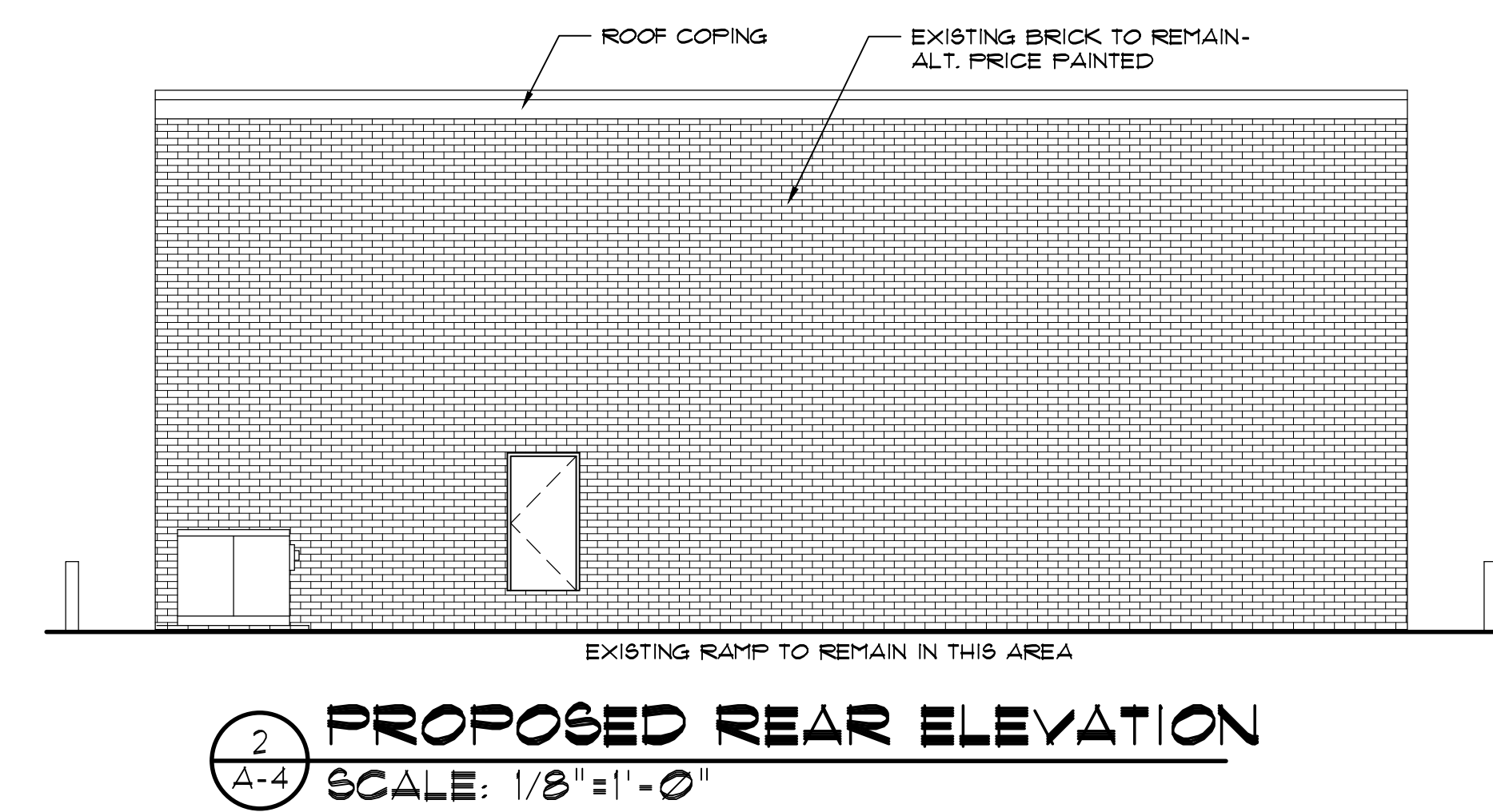
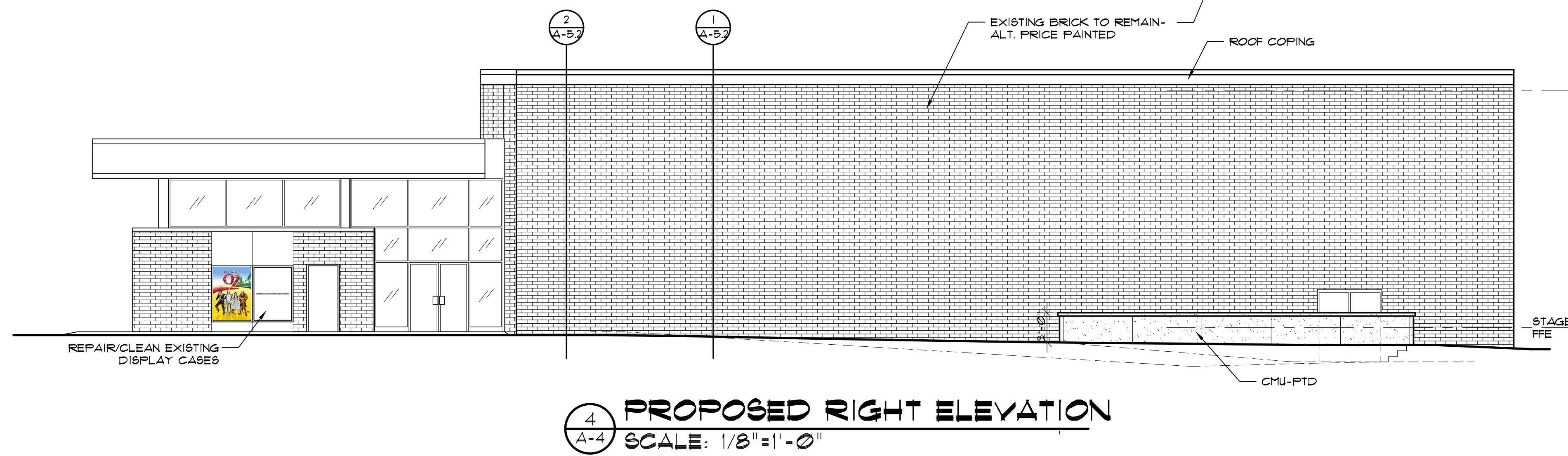
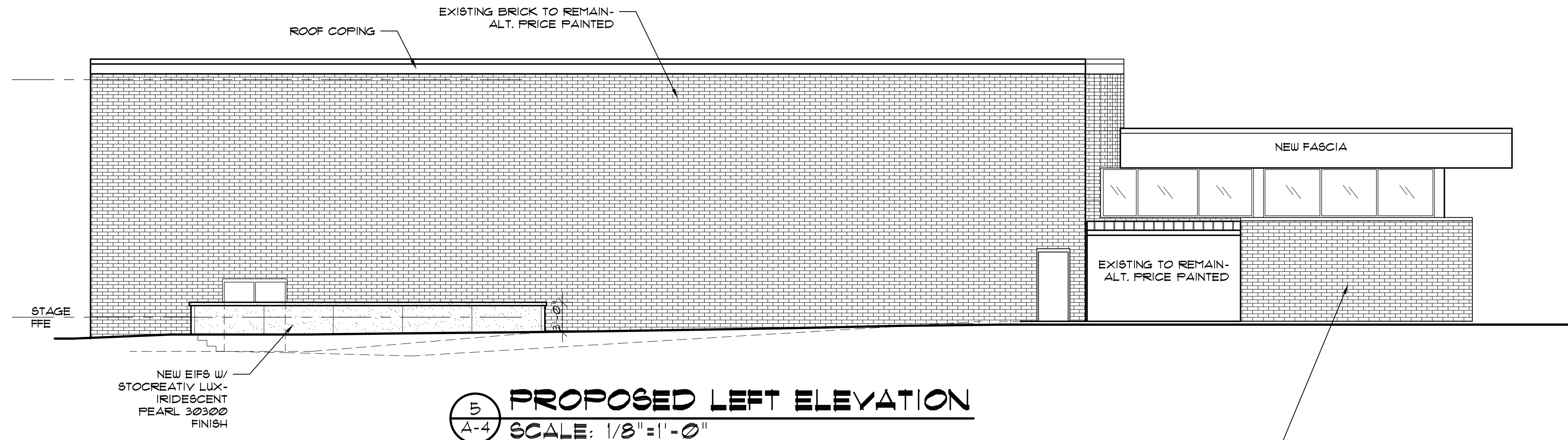
DOOR WINDOW AND ROOM FINISH SCHEDULES

24034

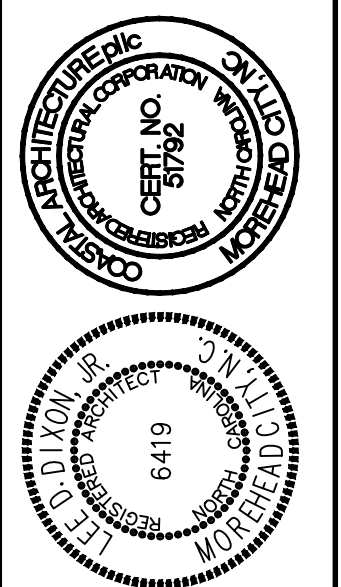
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SHEET NO.
A-3
OF



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MOREHEAD CITY, NORTH CAROLINA



BUILDING SECTIONS

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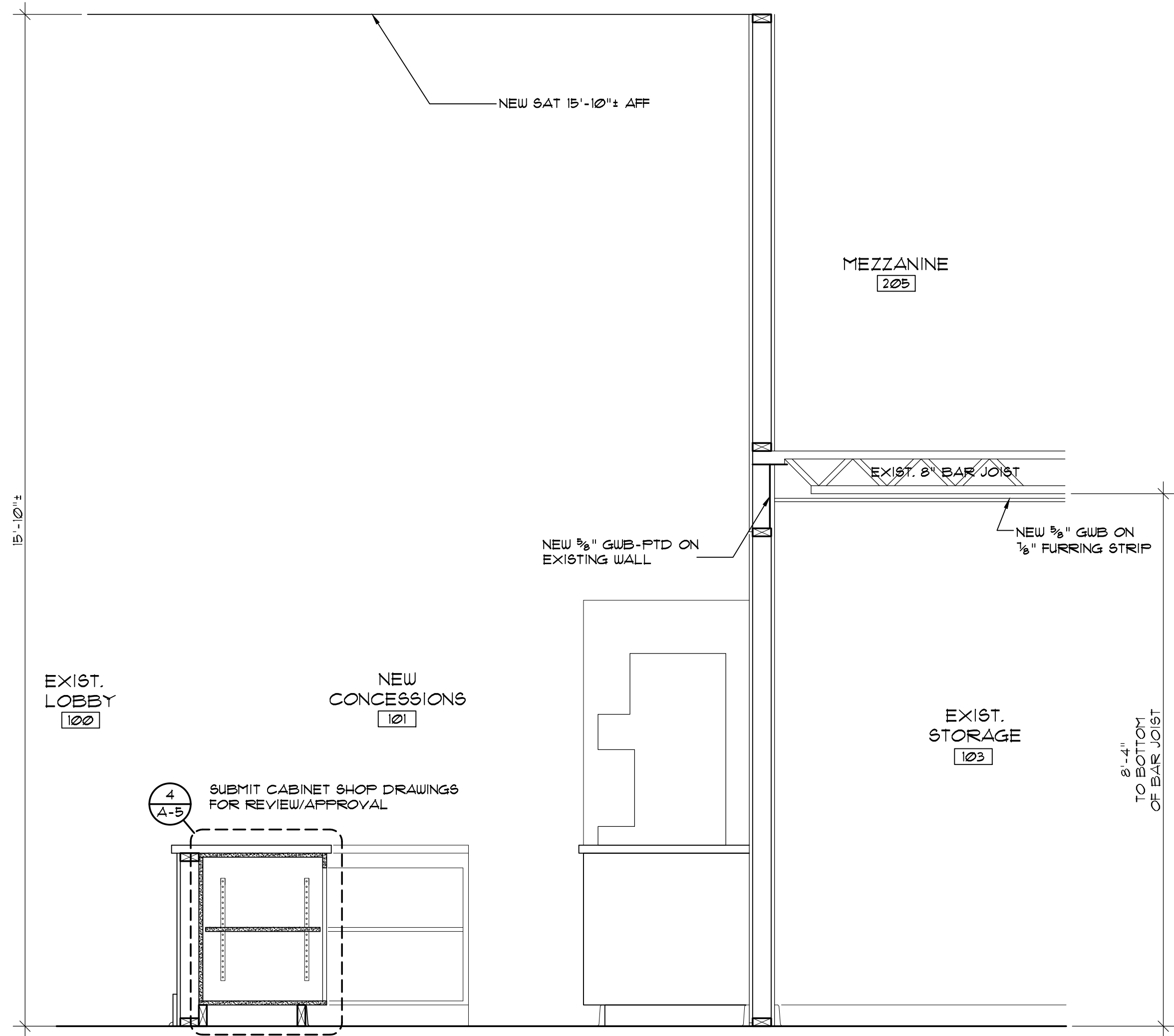
ISSUED: 24 JULY 24

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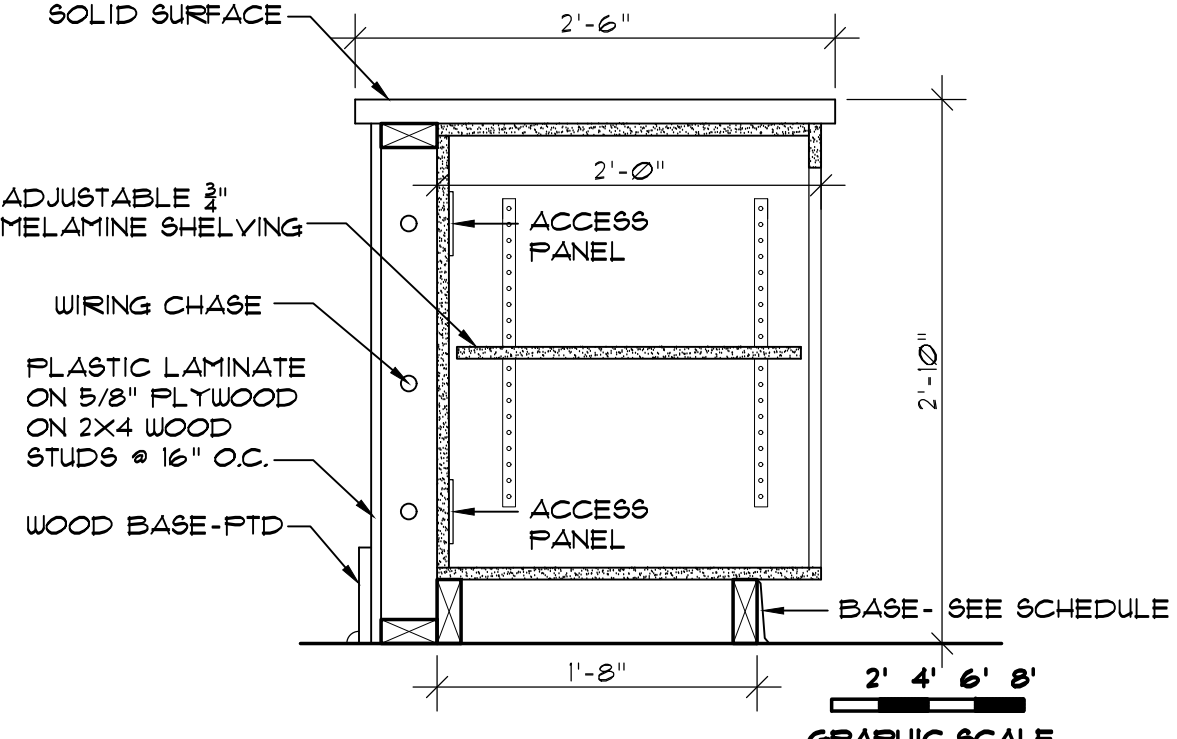
CKD BY: LDD

REVISIONS

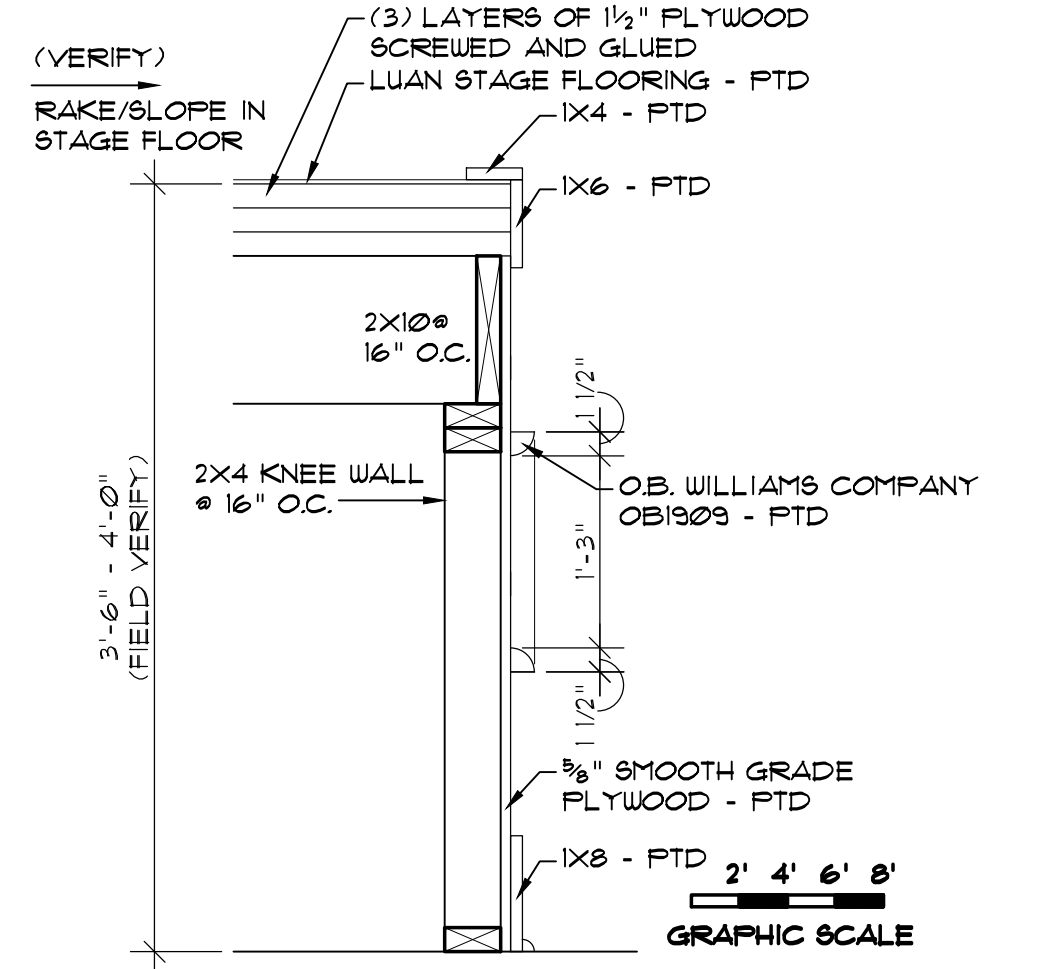
SHEET NO.
A-5
OF



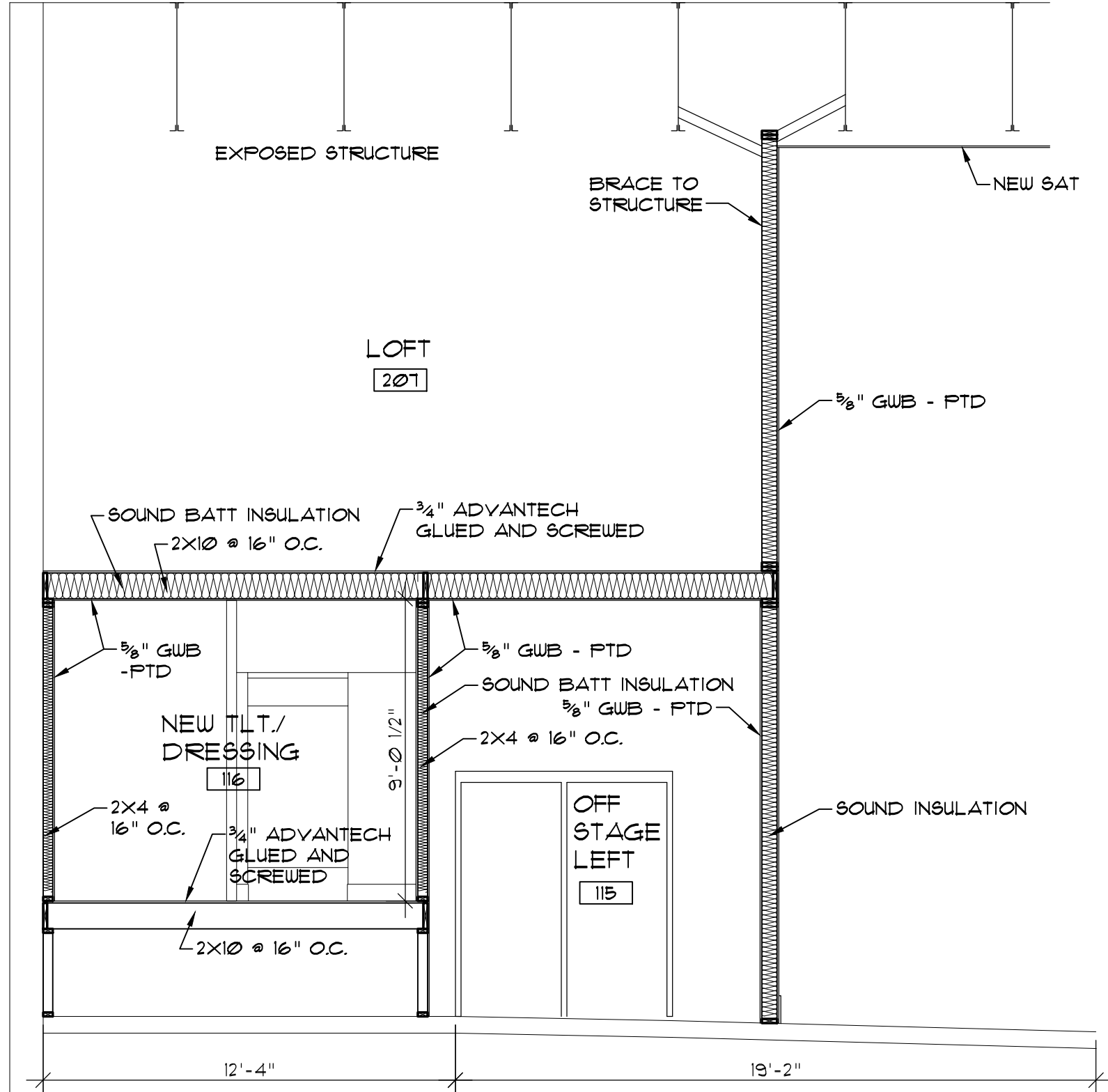
5 SECTION 2 CONCESSIONS
A-5 SCALE: 3/4" = 1'-0"



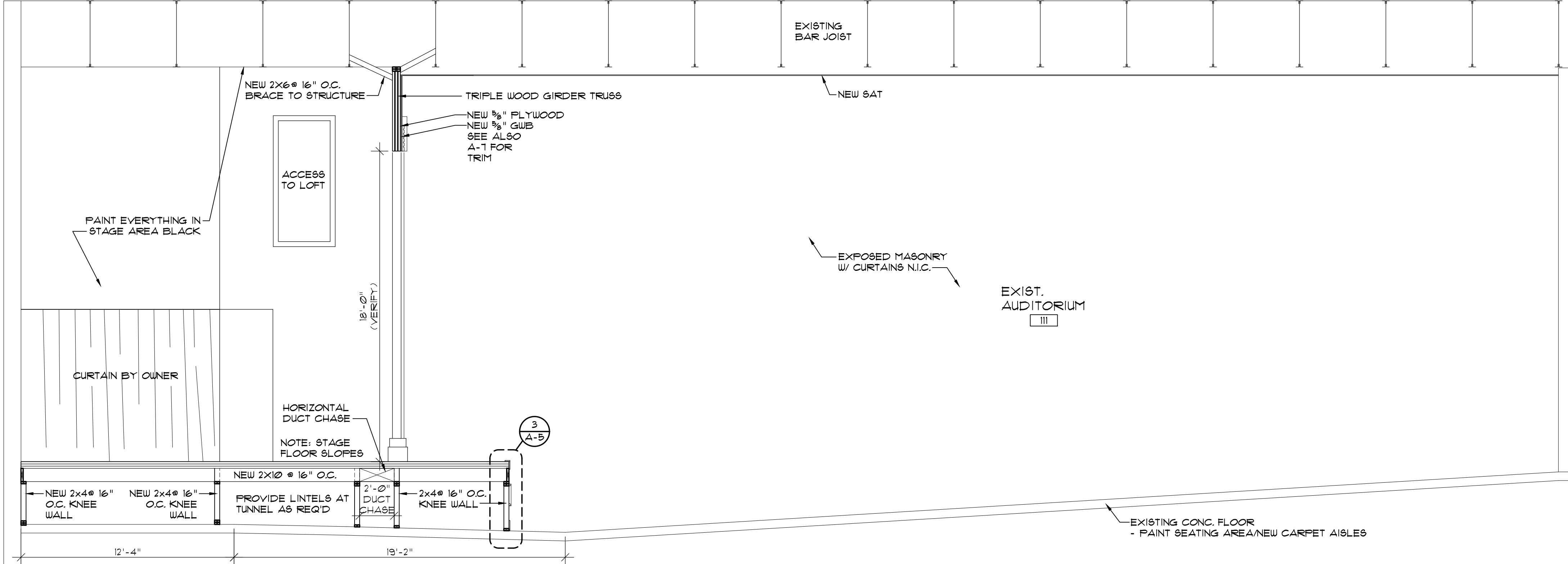
4 CONCESSION COUNTER
A-5 SCALE: 1" = 1'-0"



3 STAGE APRON DETAIL
A-5 SCALE: 1" = 1'-0"

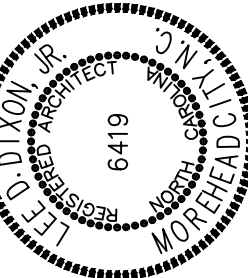
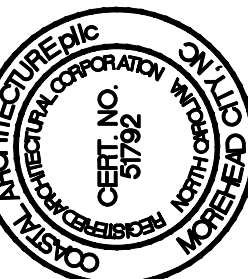


2 SECTION 2 NEW TLT./DRESSING
A-5 SCALE: 1/4" = 1'-0"



1 BUILDING SECTION
A-5 SCALE: 1/4" = 1'-0"

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BUILDING SECTIONS

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ISSUED: 24 JULY 24

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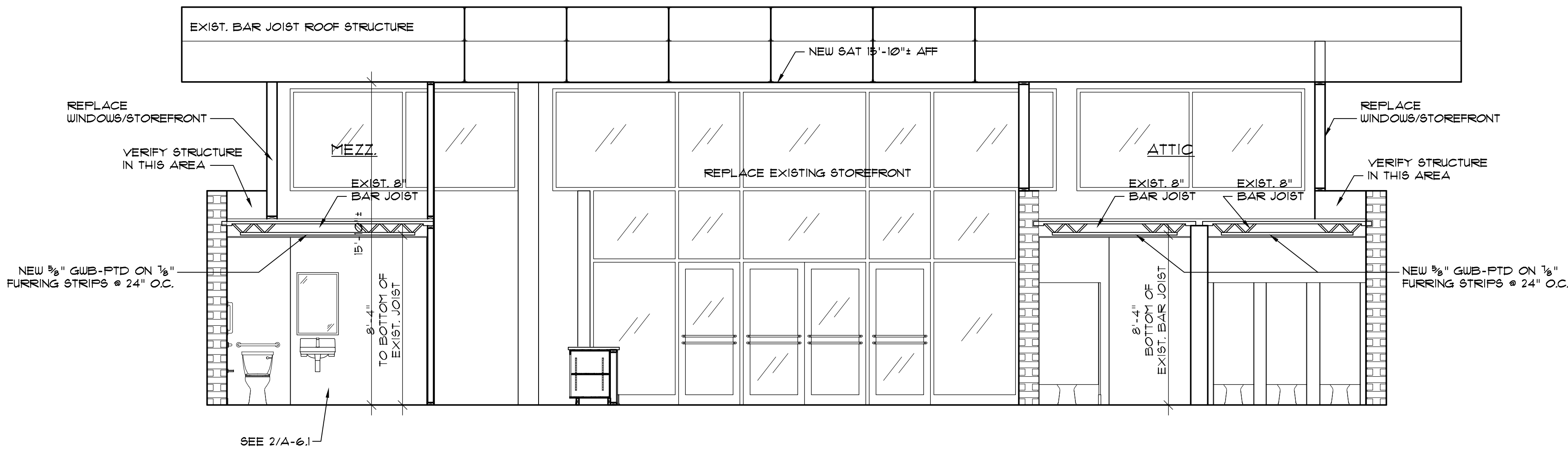
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REVISIONS

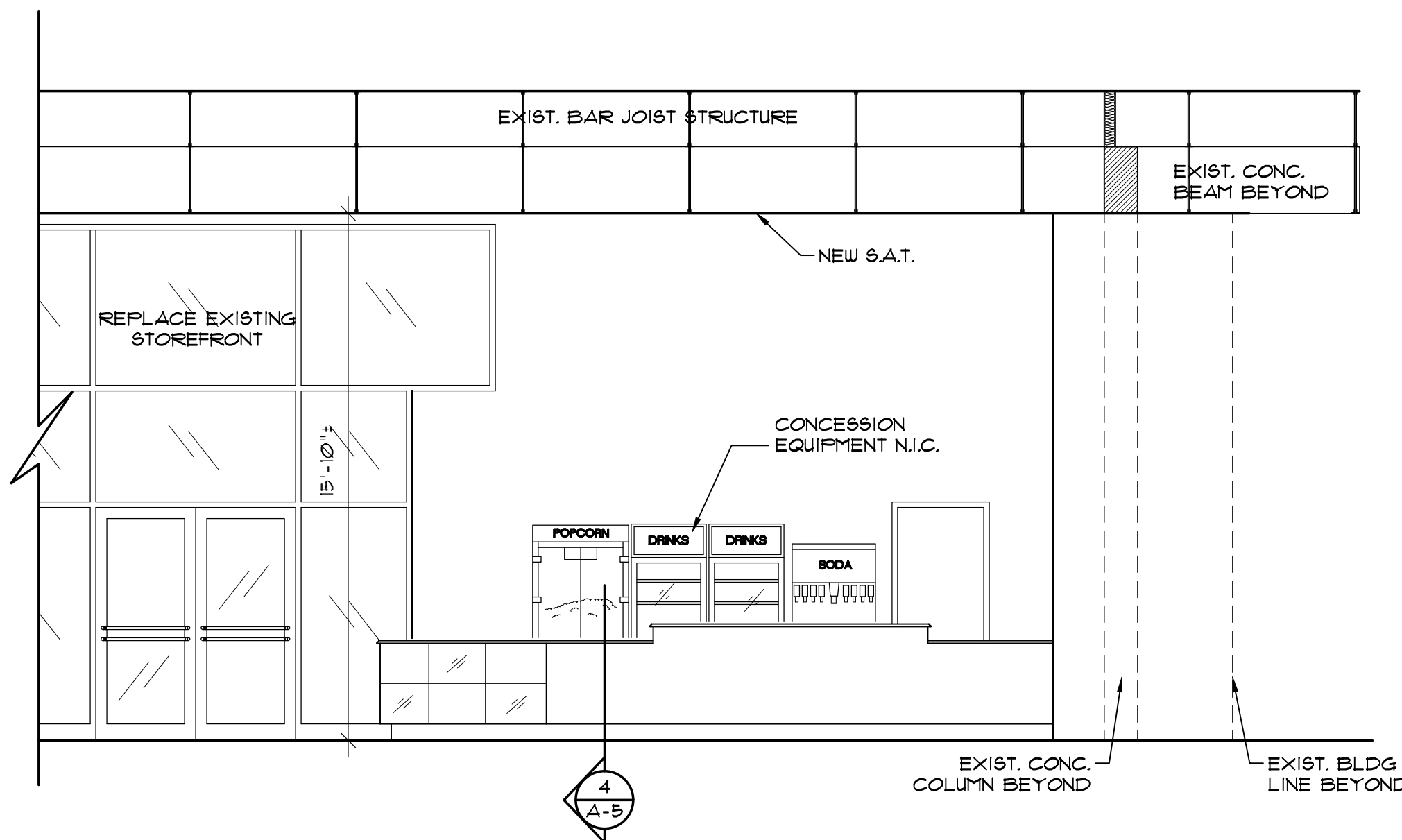
SHEET NO.

A-5.1

OF

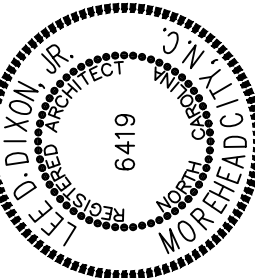
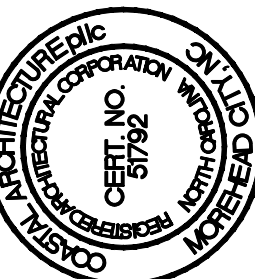


2 BUILDING SECTION
A-5.1 SCALE: 1/4"=1'-0"
GRAPHIC SCALE



1 BUILDING SECTION
A-5.1 SCALE: 1/4"=1'-0"
GRAPHIC SCALE

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WALL SECTIONS

24034

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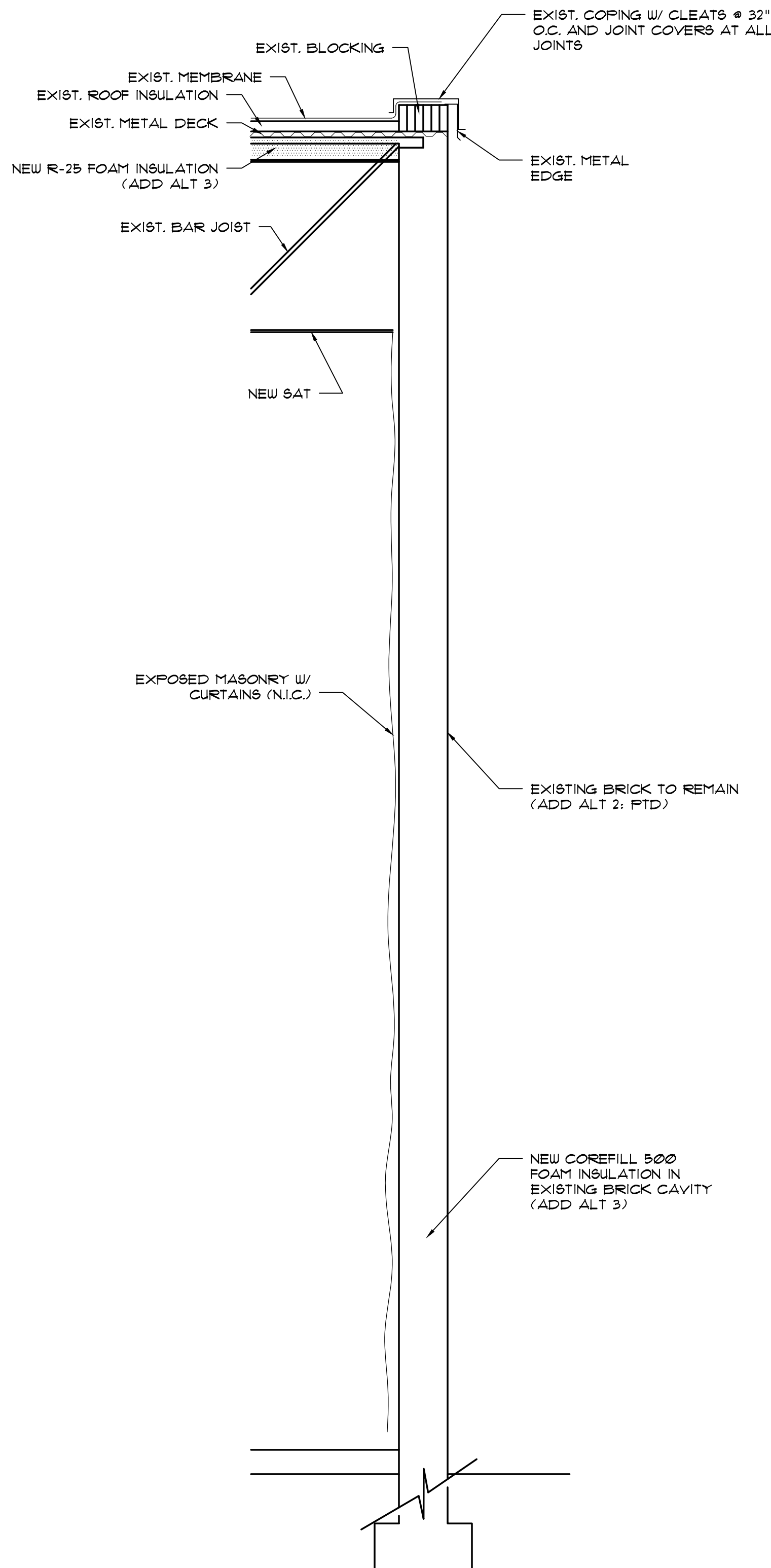
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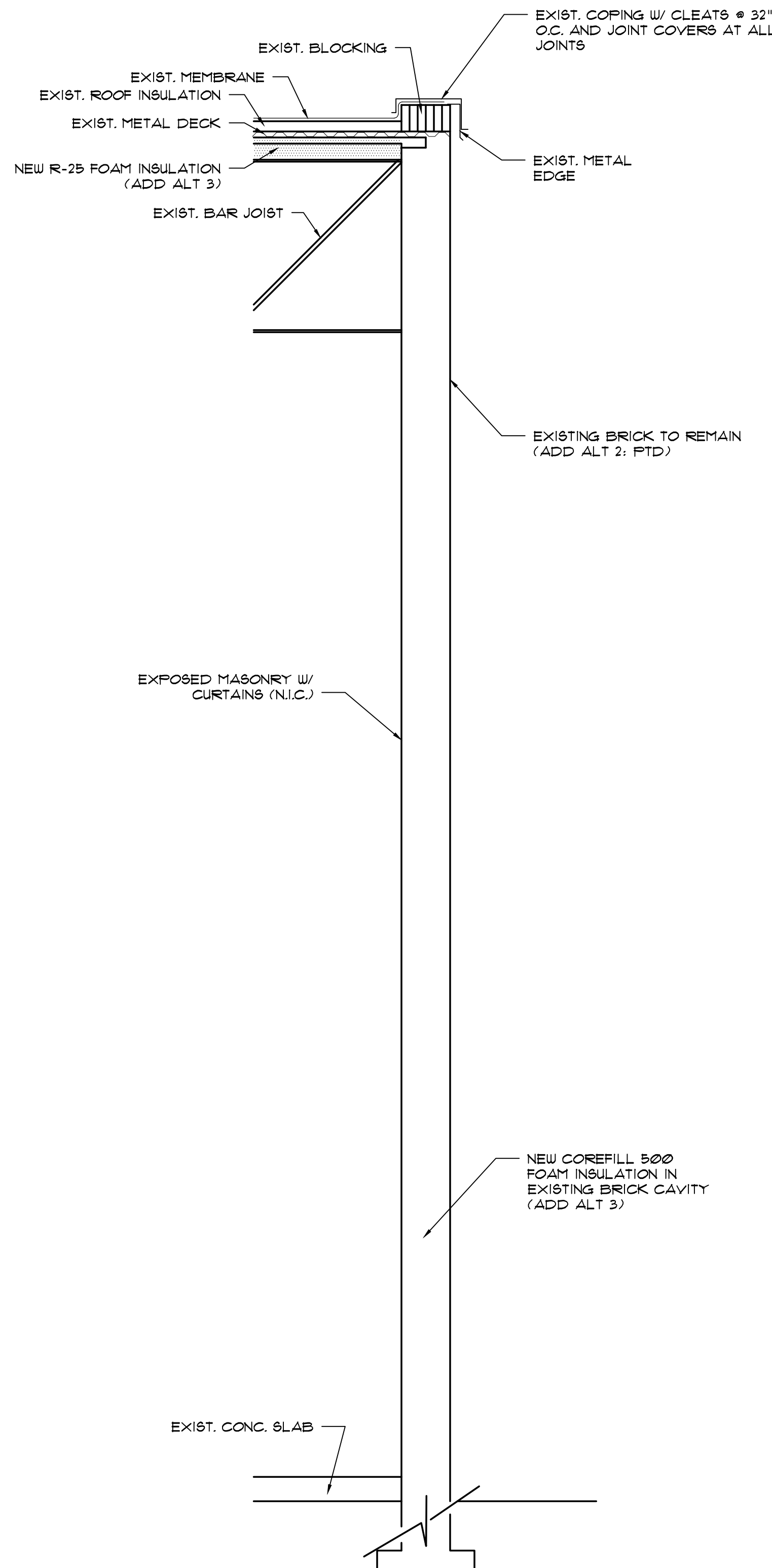
REVISIONS

SHEET NO.

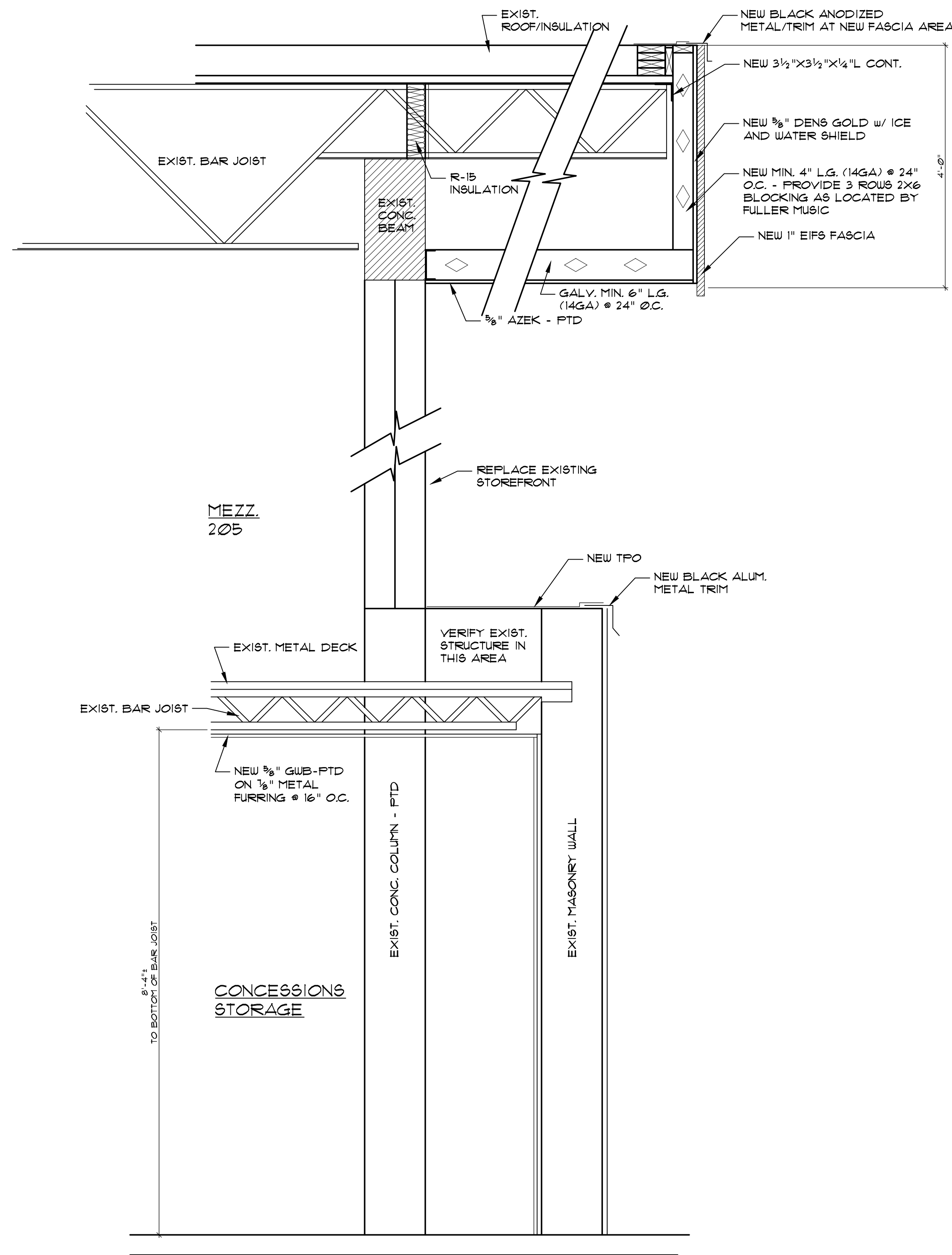
A-5.2
OF



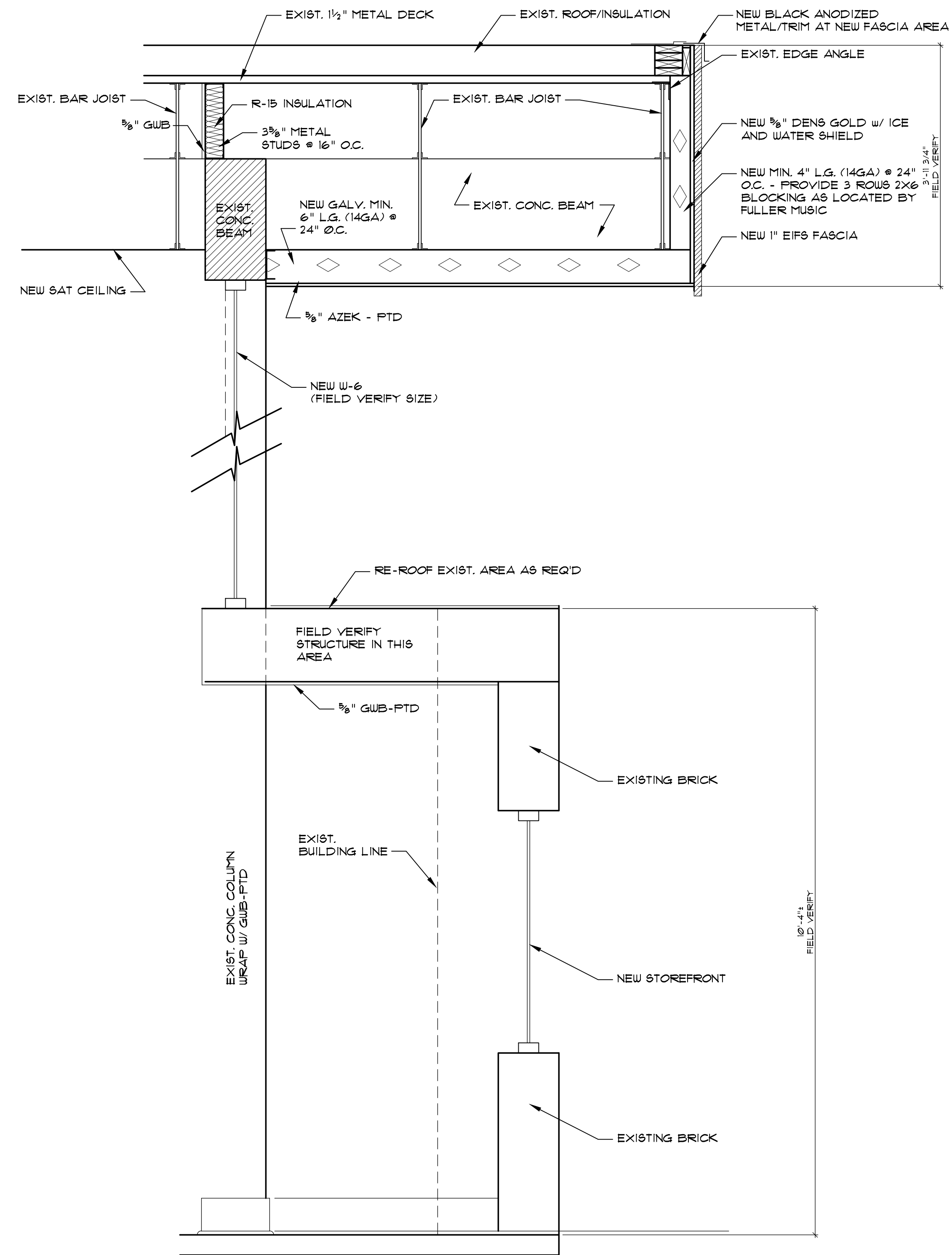
2 WALL SECTION
A-5.2 SCALE: 1/2" = 1'-0"



1 WALL SECTION
A-5.2 SCALE: 1/2" = 1'-0"



2 WALL SECTION AT CONCESSIONS STORAGE WEST WALL
A-5.3 SCALE: 3/4"=1'-0"



1 WALL SECTION
A-5.3 SCALE: 3/4"=1'-0"

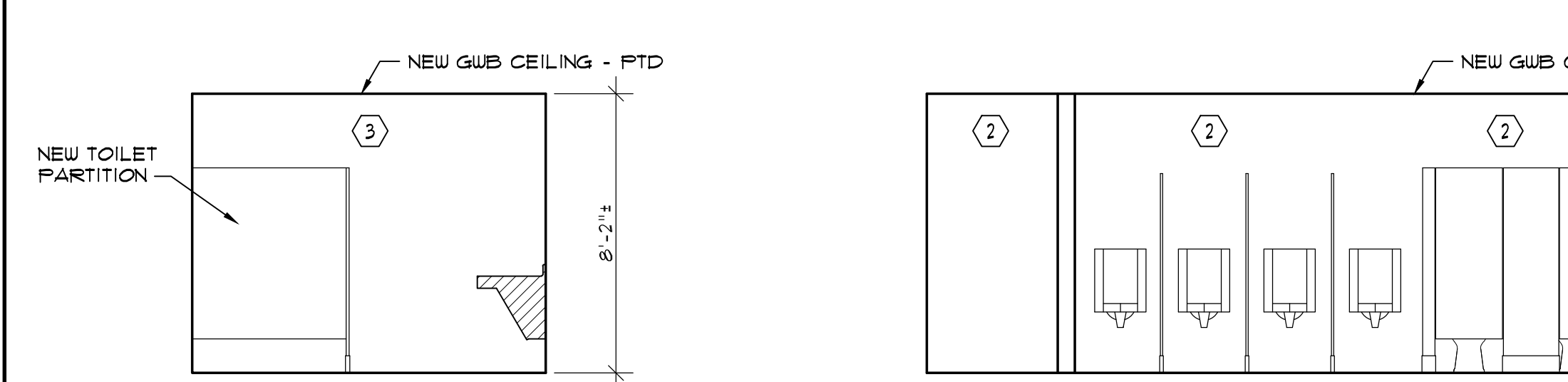
NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS/ENGINEERING FOR ALL LIGHT GAUGE FRAMING

TOILET ACCESSORY SCHEDULE				
Mark	Item	Mtg. Ht.		Remarks
TA-1	MIRROR 2'W X 3'H	B-165 2436	3'-4"	HEIGHT TO BOTTOM, CENTER ON SINK
TA-2	SURFACE MOUNTED TOILET PAPER HOLDER	B-4288	1'-10"	HEIGHT TO CENTER OF BOTTOM ROLL
TA-3	SURFACE MOUNTED PAPER TUL DISP. W/ WASTE RECEPT. BELOW	B-43699	3'-6" MAX.	HEIGHT TO DISP. OUTLET OR DISPENSER LEVER
TA-4	SOAP DISPENSER	B-2111	3'-6"	HEIGHT TO BOTTOM OF DISPENSER
TA-5	GRAB BAR 42" CONCEALED MOUNTING W/ SNAP FLANGE		3'-0" MAX.	HEIGHT TO CENTER
TA-6	GRAB BAR 24" CONCEALED MOUNTING W/ SNAP FLANGE		3'-0" MAX.	HEIGHT TO CENTER
TA-7	GRAB BAR 18" CONCEALED MOUNTING (VERTICAL) W/ SNAP FLANGE		3'-3"	HEIGHT TO BOTTOM, CENTER OF BAR @ 40" FROM REAR WALL
TA-8	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	B-2170	2'-0"	HEIGHT TO TOP OF DISPENSER
TA-9	MIRROR 1'-0"X3'-0"			
TA-10	MIRROR 3'-0"X3'-0"			
TA-11	MIRROR 4'-0"X3'-0"			

NOTES:

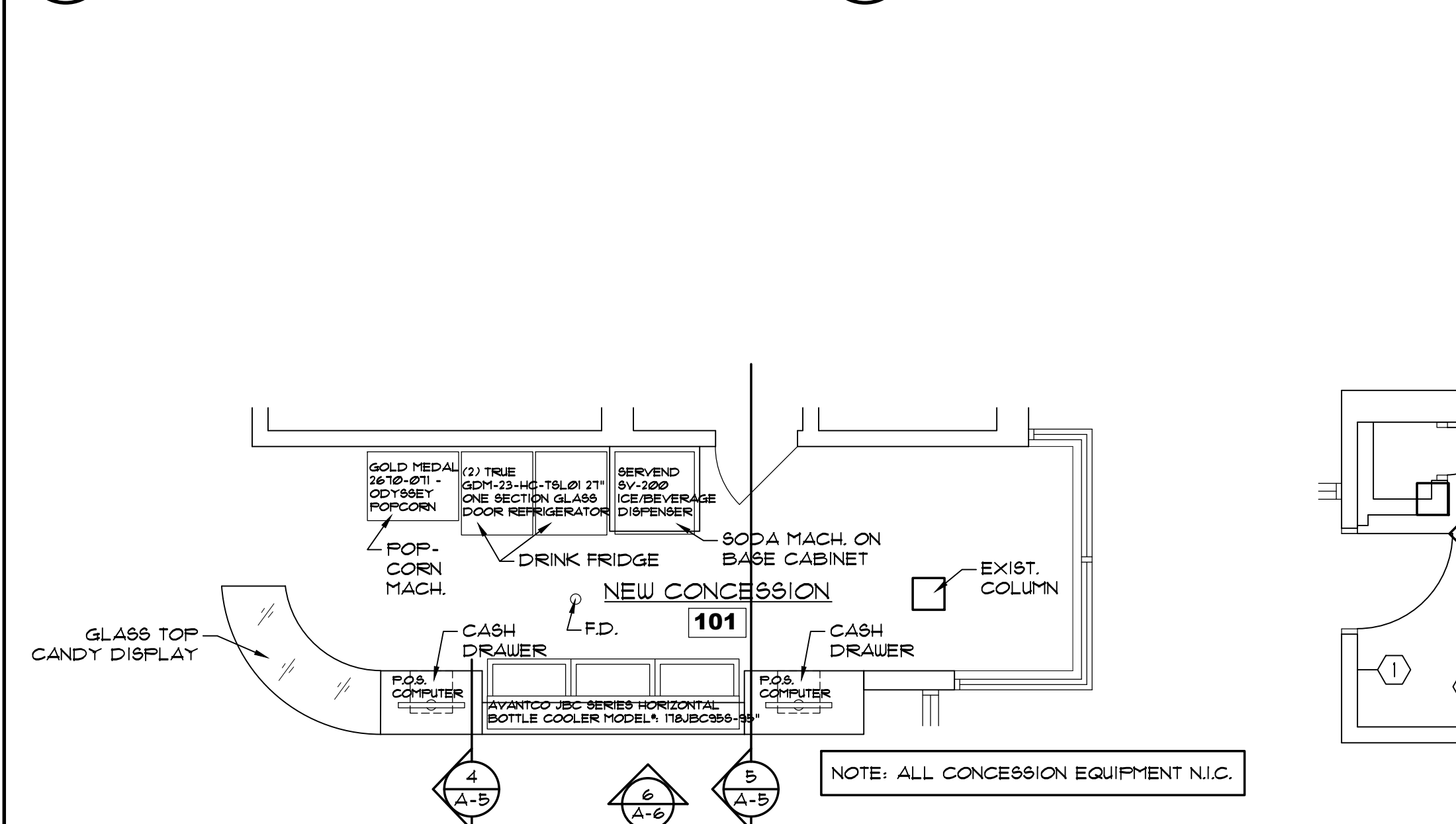
- SUBMIT SHOP DRAWINGS FOR ALL TOILET PARTITION CONFIGURATIONS
- ALL HANDRAILS SHALL BE BLOCKED TO SUPPORT A 250 LB. LOAD MINIMUM

- KEY NOTES:
- 1 NEW TILE TO MATCH EXISTING ON EXISTING WALL.
 - 2 NEW TILE ON BACKER BOARD ON EXISTING STUDS.
 - 3 EXISTING WALL TILE TO REMAIN.
 - 4 EXISTING FLOOR TILE TO REMAIN.
 - 5 EXISTING EXPOSED BRICK TO REMAIN.
 - 6 NEW GUB-PTD. ON EXISTING STUDS.
 - 7 PREP FOR NEW FLOORING - SEE ROOM FINISH SCHEDULE.
 - 8 NEW 3/8" GUB-PTD. ON EXISTING WALL.
 - 9 EXISTING MASONRY TO BE PAINTED.
 - 10 FILL EXISTING HOLE W/ BRICK.
 - 11 EXISTING MASONRY TO REMAIN (CURTAINS BY OWNER).
 - 12 EXISTING BRICK - REPAINT BLACK.



9 A-6 EXIST. MENS TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"

12 A-6 EXIST. MENS TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"

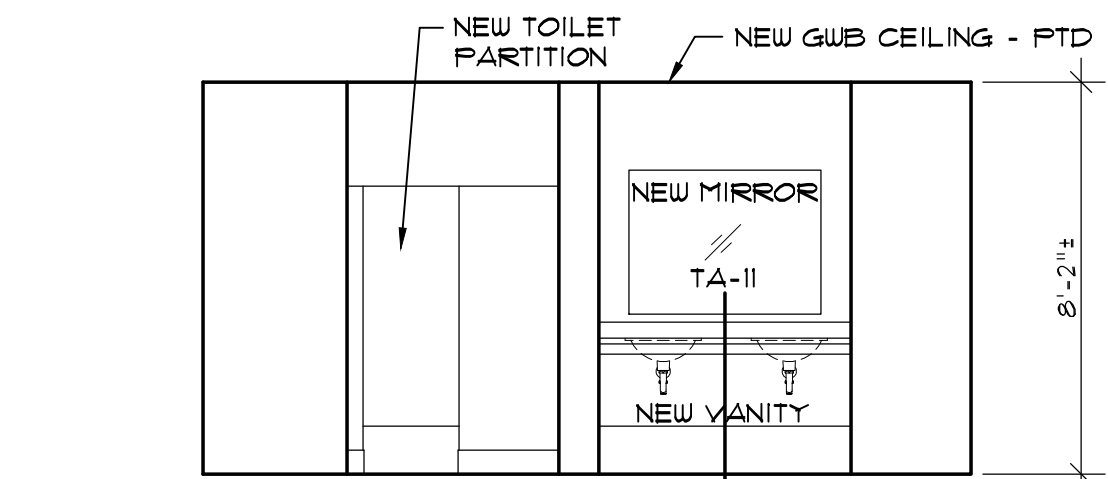
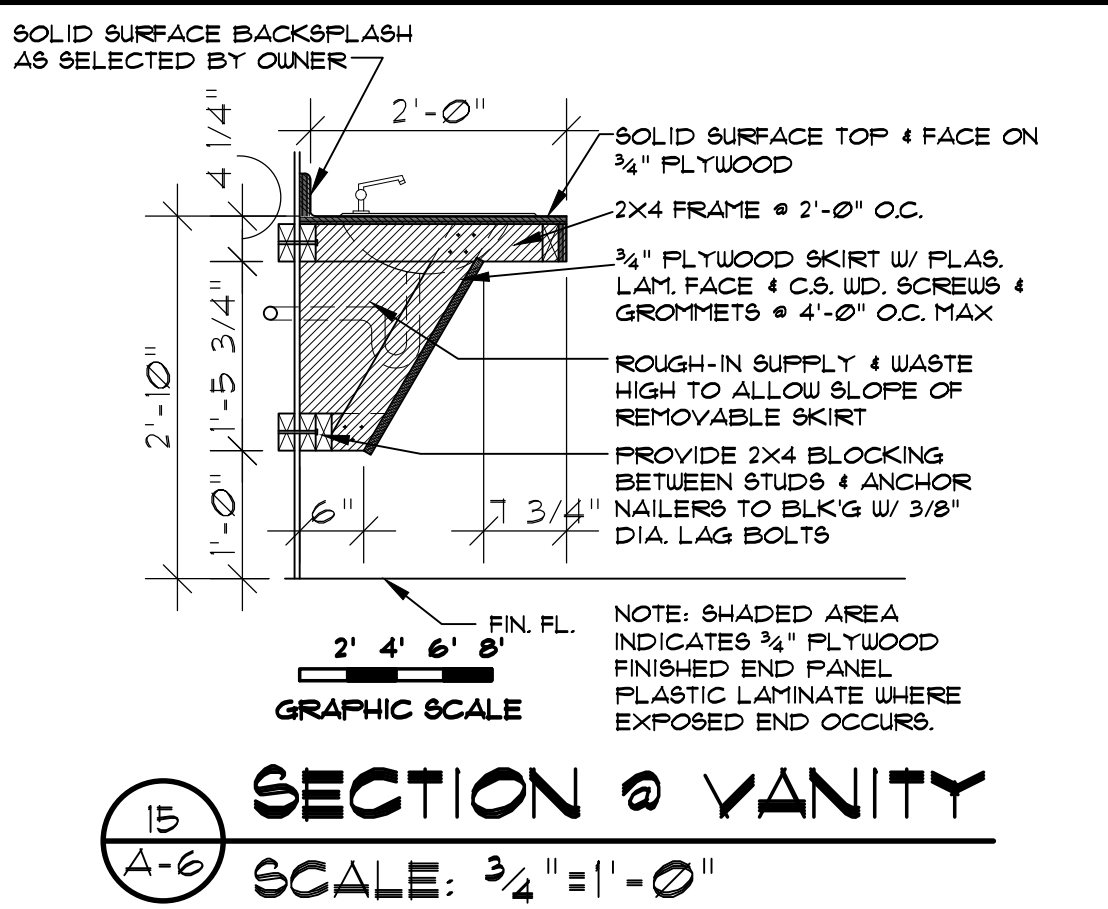


7 A-6 EXIST. MENS TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"

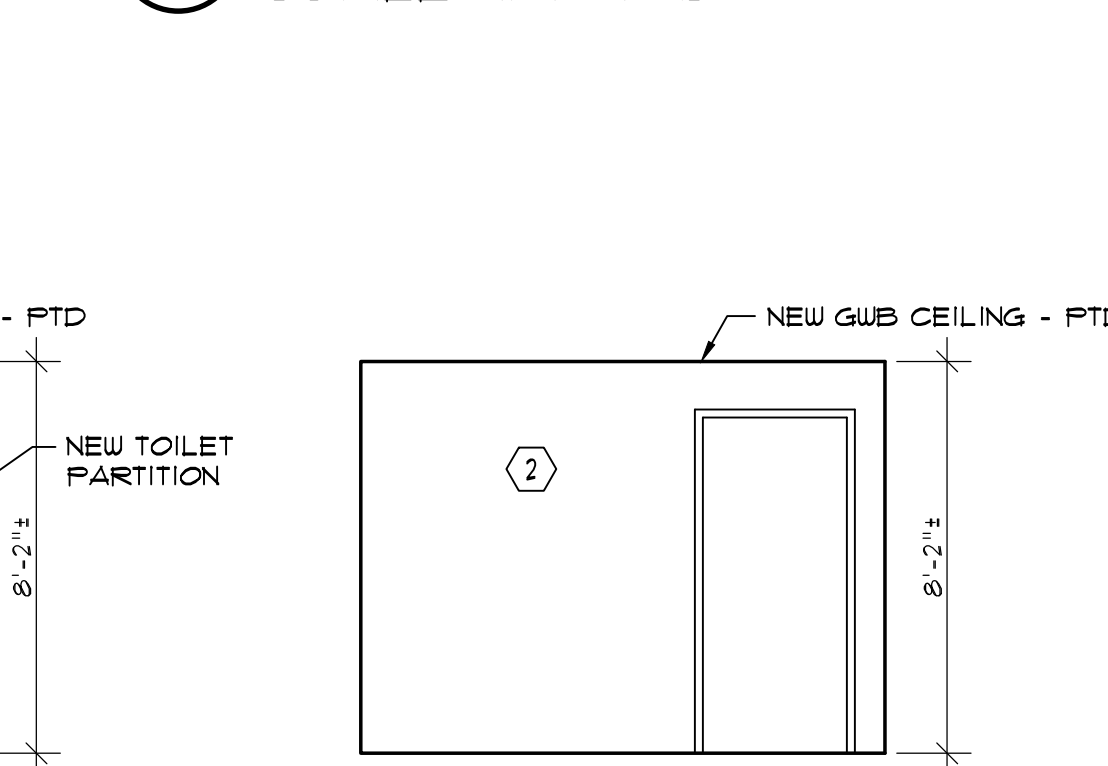
8 A-6 EXIST. MENS TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"



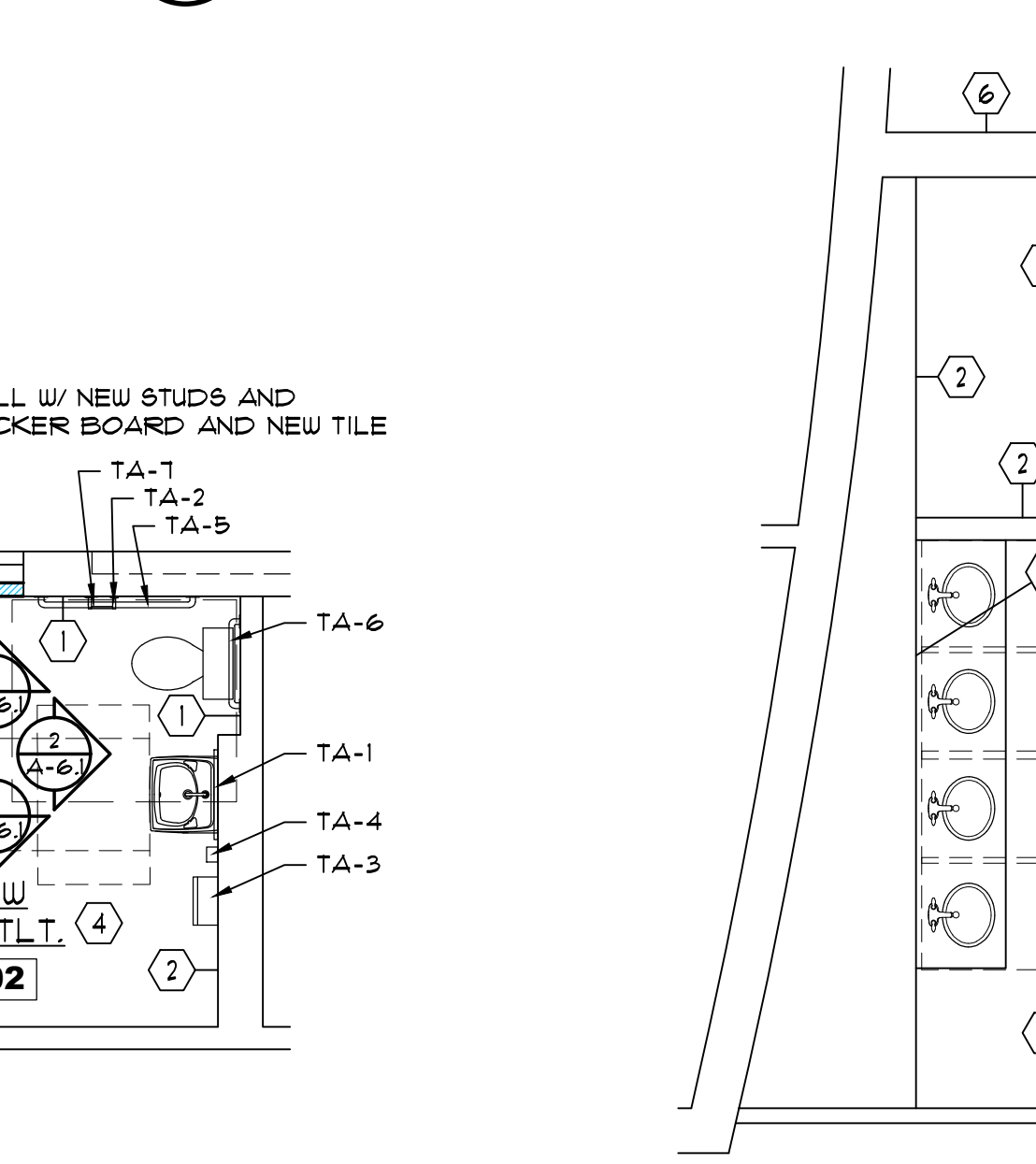
4 A-6 CONCESSION STAND 101 SCALE: 1/4"=1'-0"



15 A-6 SECTION @ VANITY SCALE: 3/4"=1'-0"



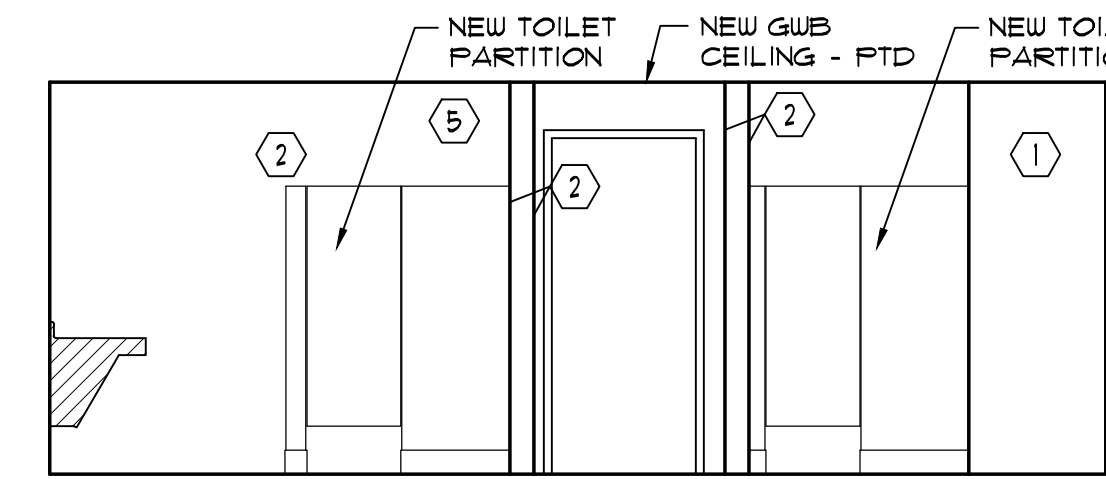
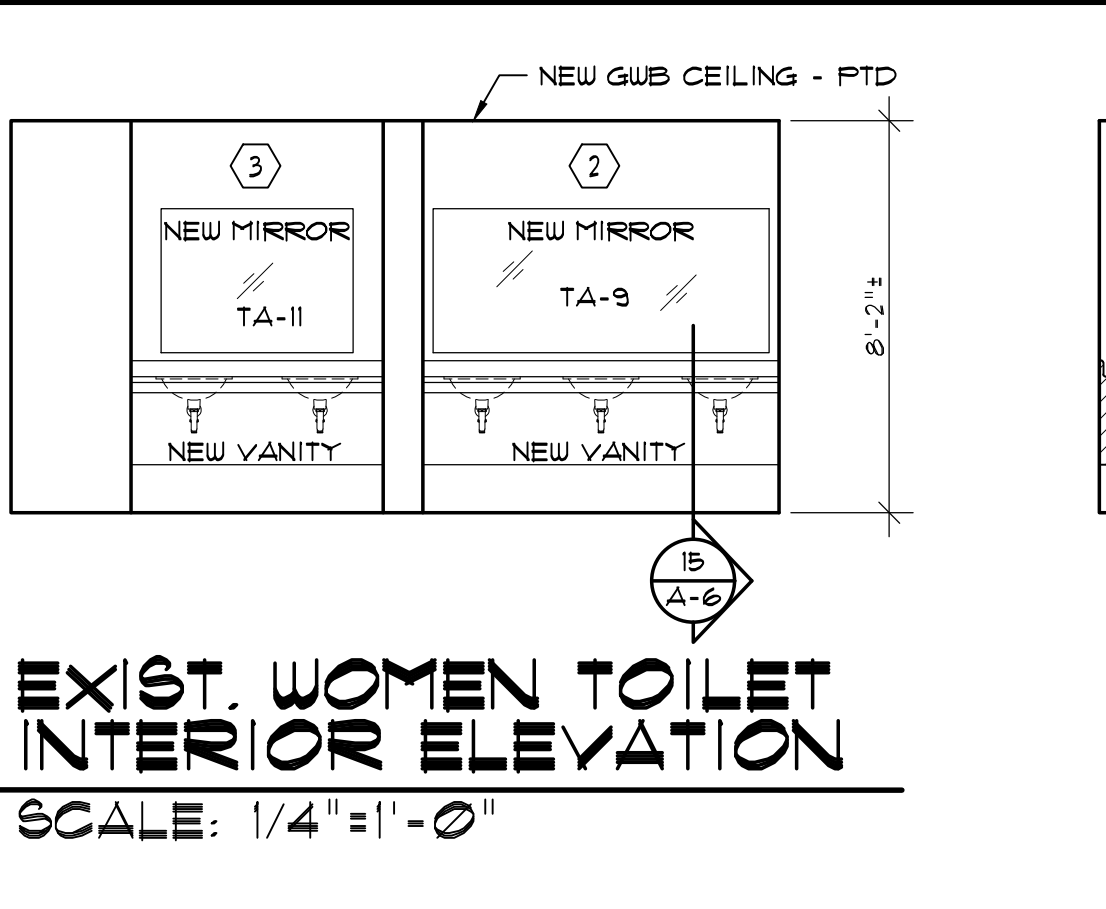
6 A-6 CONCESSION STAND 102 SCALE: 1/4"=1'-0"



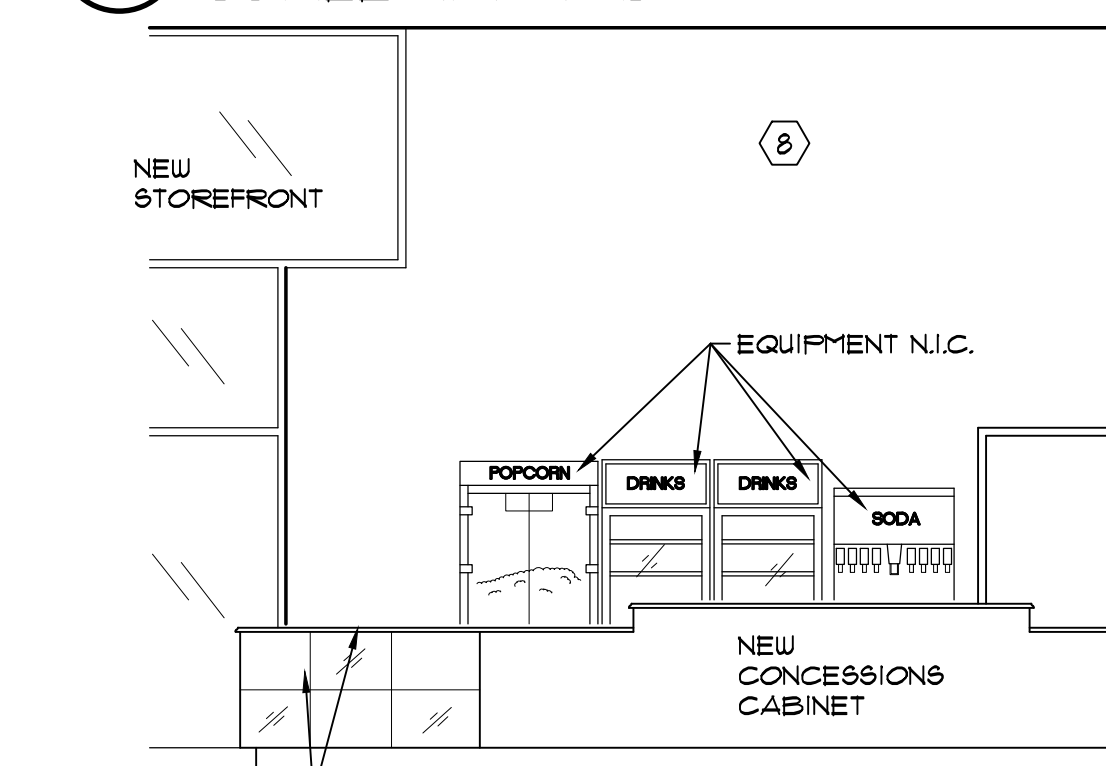
6 A-6 CONCESSION STAND 102 SCALE: 1/4"=1'-0"



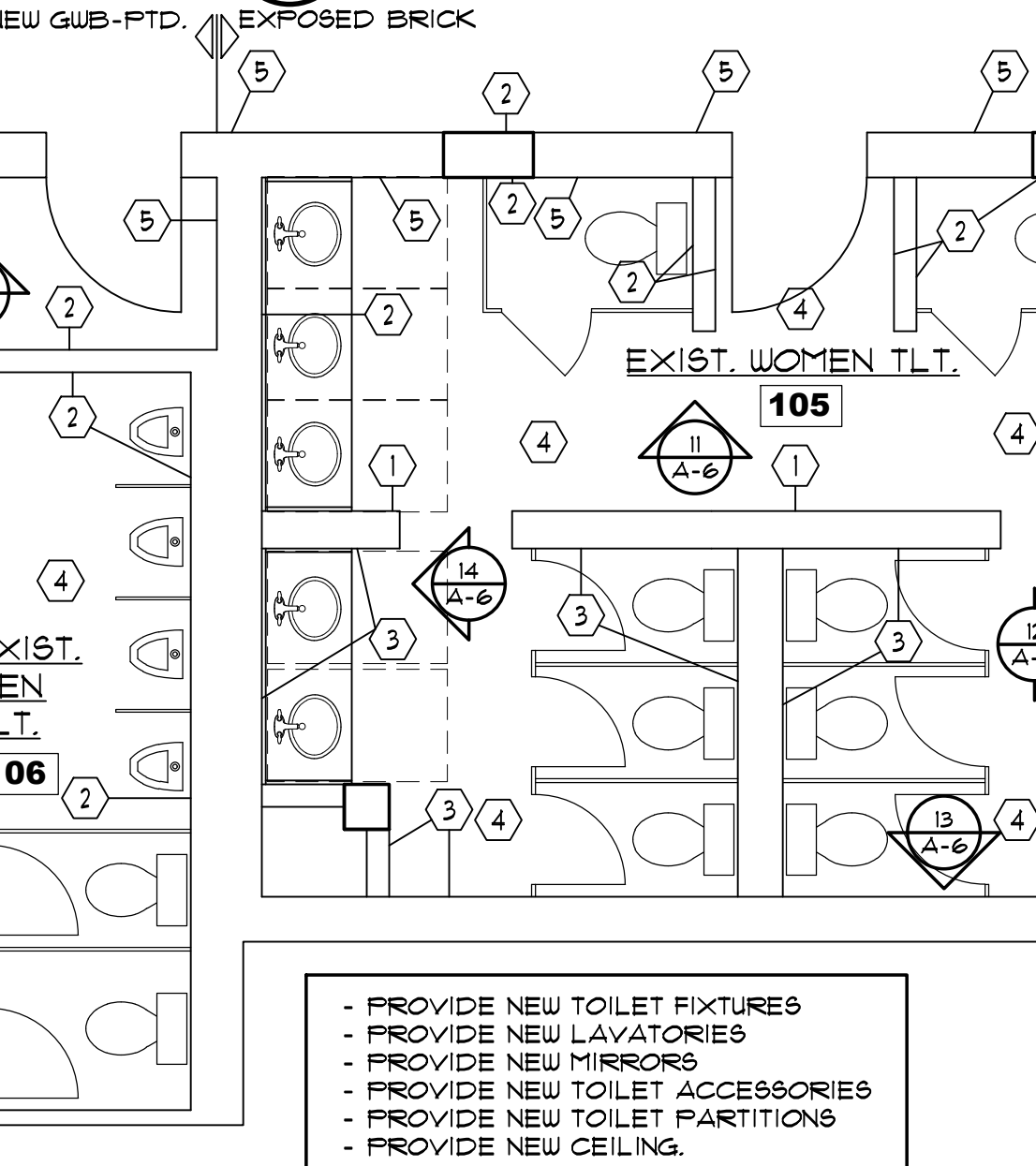
6 A-6 CONCESSION STAND 102 SCALE: 1/4"=1'-0"



14 A-6 EXIST. WOMEN TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"



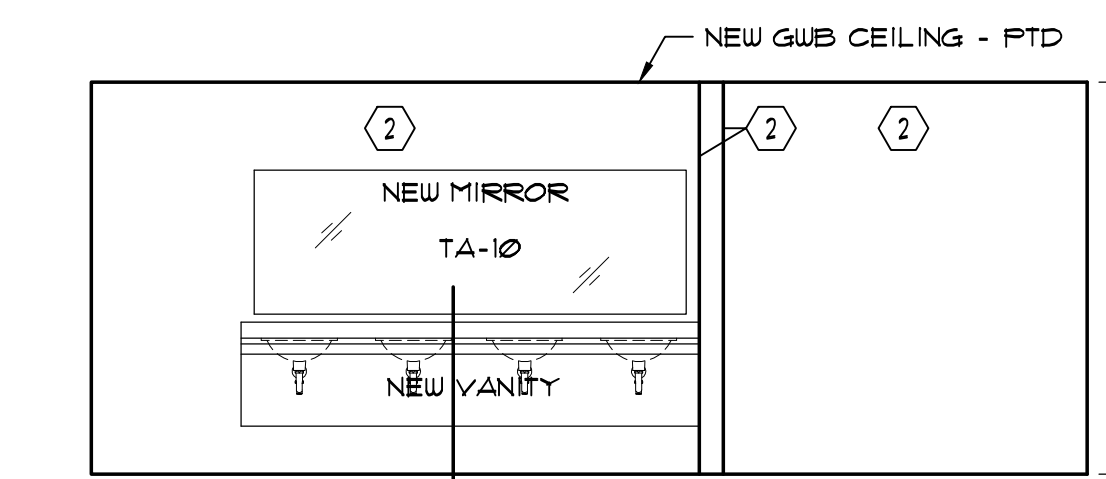
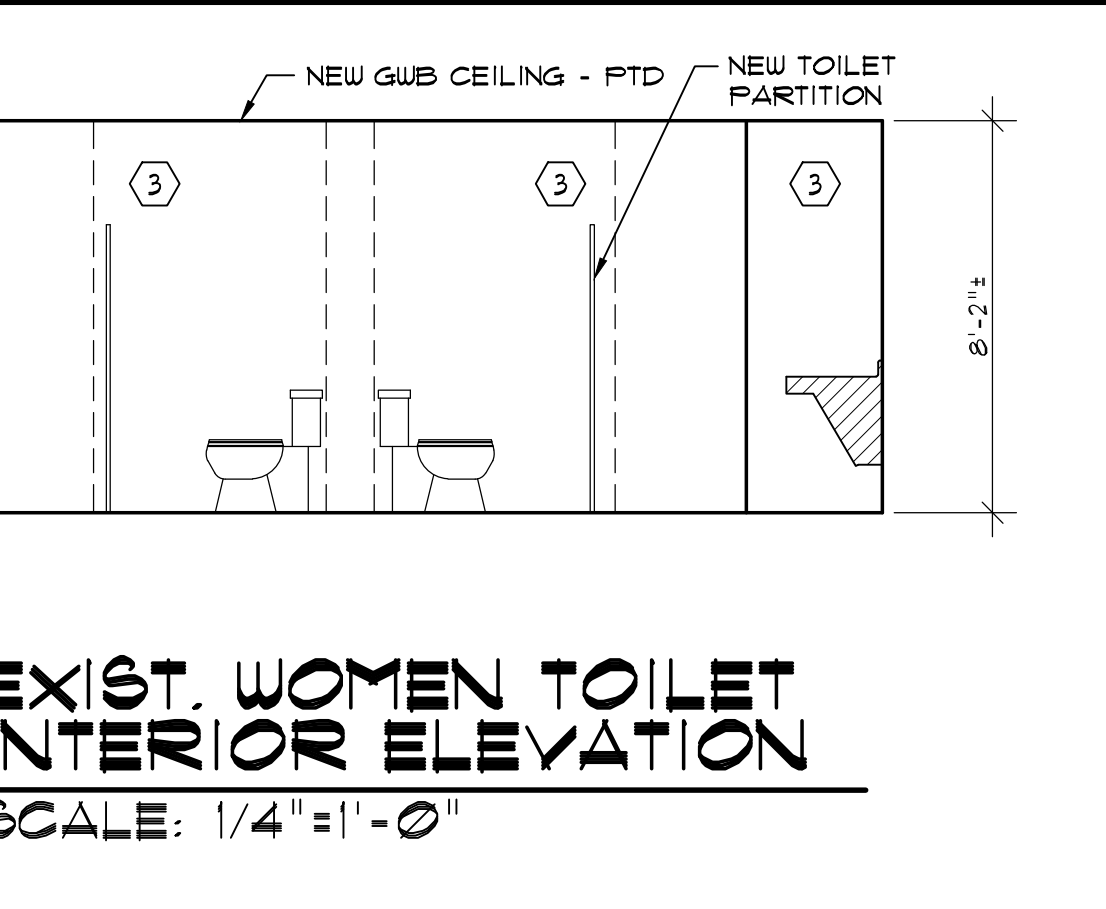
11 A-6 EXIST. WOMEN TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"



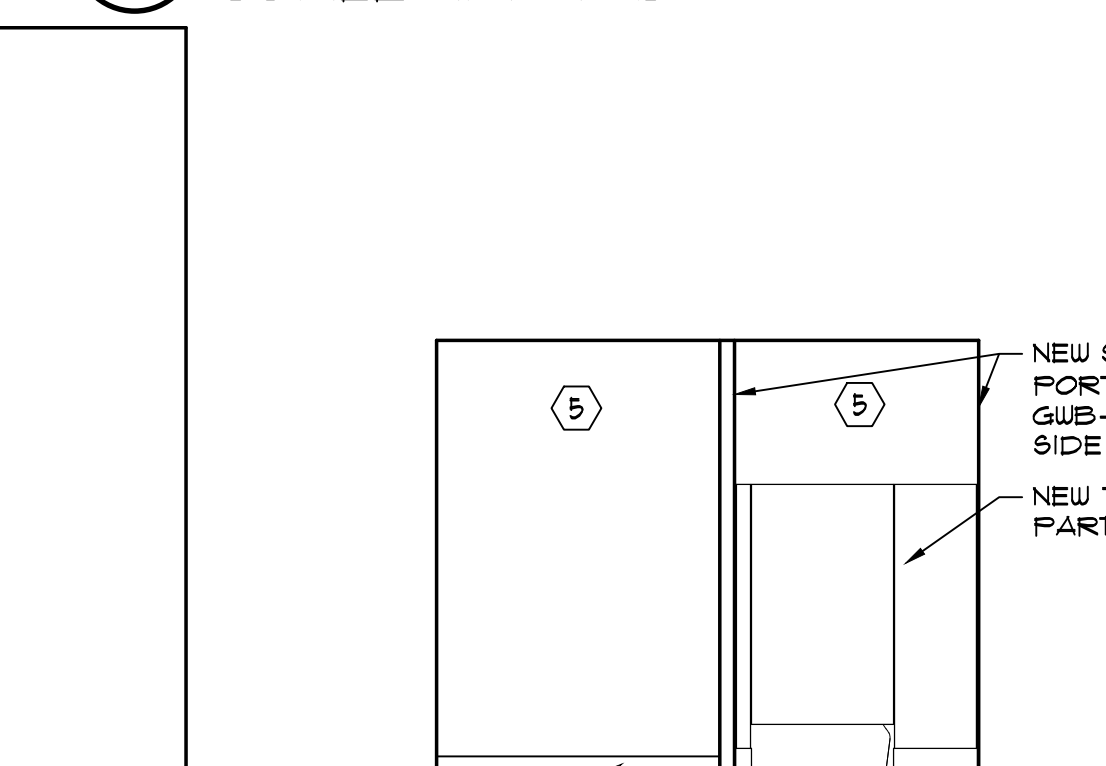
11 A-6 EXIST. WOMEN TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"



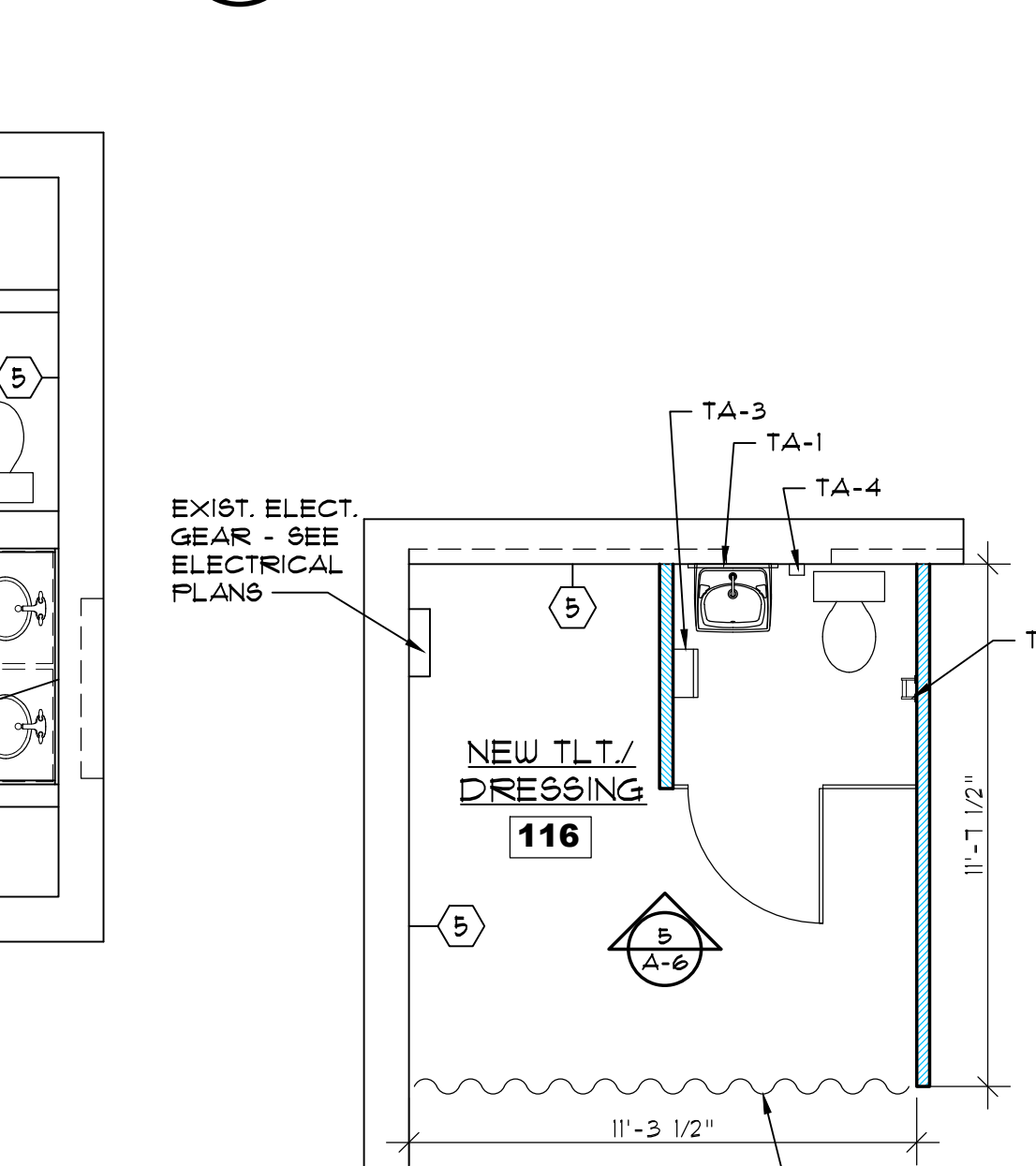
11 A-6 EXIST. WOMEN TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"



13 A-6 EXIST. WOMEN TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"



10 A-6 EXIST. MENS TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"



10 A-6 EXIST. MENS TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"



10 A-6 EXIST. MENS TOILET INTERIOR ELEVATION SCALE: 1/4"=1'-0"

Coastal Architecture

• Architectural Design
• Planning
• Interiors

AIA

Member of the American Institute of Architects

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REPAIRS TO
CARTERET COMMUNITY THEATRE
MOREHEAD CITY, NORTH CAROLINA

REGISTERED PROFESSIONAL ARCHITECT
OFFICE NO. 6419
STATE OF NORTH CAROLINA

ENLARGED PLANS

24034

ISSUED: 24 JULY 24
DWG BY: MSG
CKD BY: LDD

REVISIONS

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SHEET NO.
A-6
OF

TOILET ACCESSORY SCHEDULE				
Mark	Item		Mtg. Ht.	Remarks
TA-1	MIRROR 2'W X 3'H	B-165 2436	3'-4"	HEIGHT TO BOTTOM, CENTER ON SINK
TA-2	SURFACE MOUNTED TOILET PAPER HOLDER	B-4288	1'-10"	HEIGHT TO CENTER OF BOTTOM ROLL
TA-3	SURFACE MOUNTED PAPER TUL DISP. W/ WASTE RECEPT. BELOW	B-43699	3'-6" MAX.	HEIGHT TO DISP. OUTLET OR DISPENSER LEVER
TA-4	SOAP DISPENSER	B-2111	3'-6"	HEIGHT TO BOTTOM OF DISPENSER
TA-5	GRAB BAR 42"	CONCEALED MOUNTING W/ SNAP FLANGE	3'-0" MAX.	HEIGHT TO CENTER
TA-6	GRAB BAR 24"	CONCEALED MOUNTING W/ SNAP FLANGE	3'-0" MAX.	HEIGHT TO CENTER
TA-7	GRAB BAR 18"	CONCEALED MOUNTING W/ SNAP FLANGE (VERTICAL)	3'-3"	HEIGHT TO BOTTOM, CENTER OF BAR @ 40" FROM REAR WALL
TA-8	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	B-210	2'-0"	HEIGHT TO TOP OF DISPENSER
TA-9	MIRROR 1'-0"X3'-0"			
TA-10	MIRROR 3'-0"X3'-0"			
TA-11	MIRROR 4'-0"X3'-0"			
NOTES:				
• SUBMIT SHOP DRAWINGS FOR ALL TOILET PARTITION CONFIGURATIONS				
• ALL HANDRAILS SHALL BE BLOCKED TO SUPPORT A 250 LB. LOAD MINIMUM				

KEY NOTES:

- 1

NEW TILE TO MATCH EXISTING ON EXISTING WALL.
- 2

NEW TILE ON BACKER BOARD ON EXISTING STUDS.
- 3

EXISTING WALL TILE TO REMAIN.
- 4

EXISTING FLOOR TILE TO REMAIN.
- 5

EXISTING EXPOSED BRICK TO REMAIN.
- 6

NEW GUB-PTD. ON EXISTING STUDS.
- 7

PREP FOR NEW FLOORING - SEE ROOM FINISH SCHEDULE.
- 8

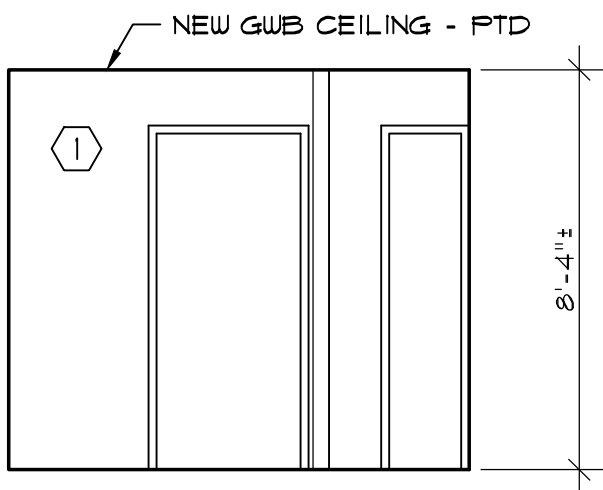
NEW 3/8" GUB-PTD. ON EXISTING WALL.
- 9

EXISTING MASONRY TO BE PAINTED.
- 10

FILL EXISTING HOLE W/ BRICK.
- 11

EXISTING MASONRY TO REMAIN (CURTAINS BY OWNER).
- 12

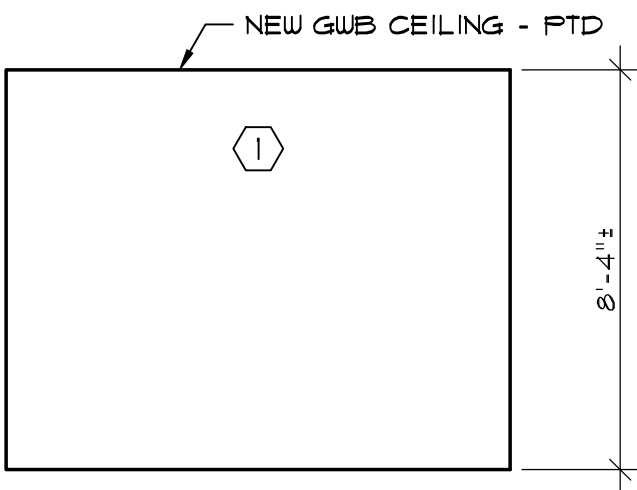
EXISTING BRICK - REPAINT BLACK.



4
A-6

NEW H.C. TOILET
INTERIOR ELEVATION

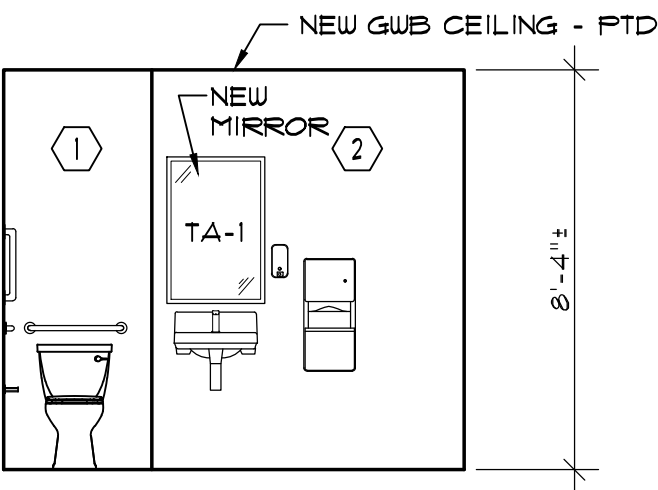
SCALE: 1/4"=1'-0"



3
A-6

NEW H.C. TOILET
INTERIOR ELEVATION

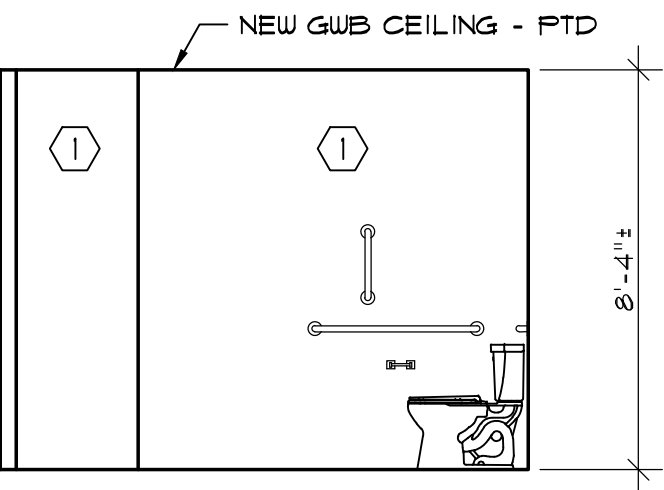
SCALE: 1/4"=1'-0"



2
A-6

NEW H.C. TOILET
INTERIOR ELEVATION

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



1
A-6

NEW H.C. TOILET
INTERIOR ELEVATION

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

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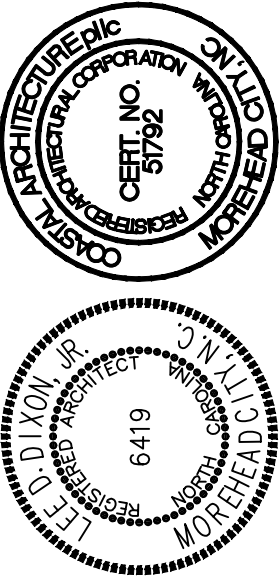
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REPAIRS TO
CARTERET COMMUNITY THEATRE
MOREHEAD CITY, NORTH CAROLINA



INTERIOR ELEVATIONS

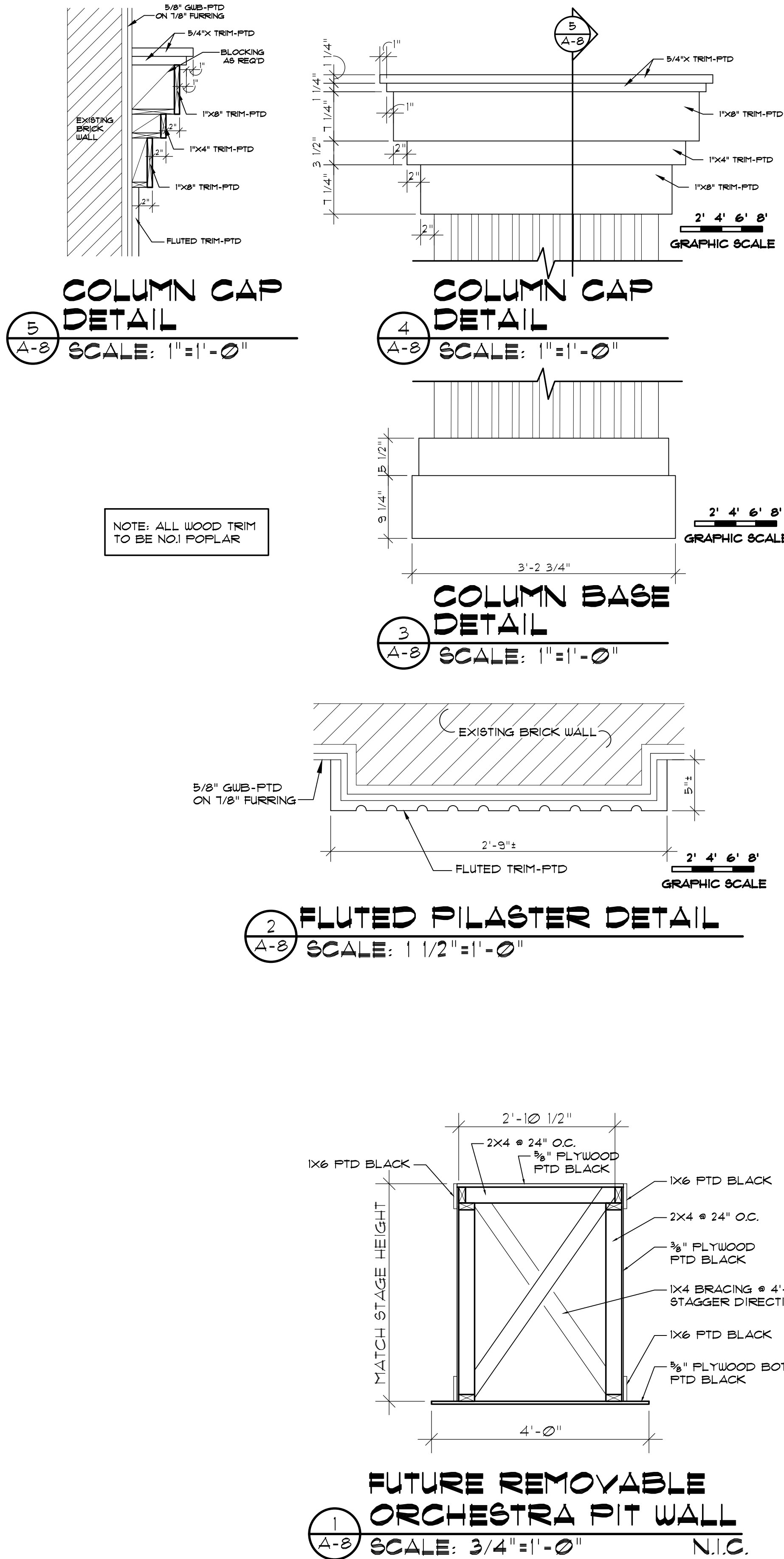
24034

ISSUED: 24 JULY 24
DWG BY: MSG
CKD BY: LDD

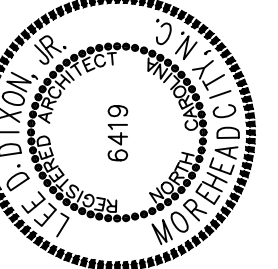
REVISIONS	

SHEET NO.
A-6.1
OF





REPAIRS TO
CARTERET COMMUNITY THEATRE
MOREHEAD CITY, NORTH CAROLINA



PAGE FRAMING PLAN

24034

ISSUED: 24 JULY 24

WG BY: LSA/MES

VISIONS

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SHEET NO.

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S-1

OF



WALL LEGEND

 EXISTING WALL

 NEW WALL

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.
 3. DWV piping.
 4. Connection of all equipment: drain, vent, water.
- 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.
- 1.2 INTENT
- 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. Fixtures 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 identified.
- 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 supplying the fixtures must also be held rigidly in place.
- 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.

2.2 PIPING

- 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 temperature greater than 140 deg. F for a minimum distance of 10'-0".
- 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.
- C. Cold water piping below grade: Type "K" copper (ASTM-B8A) soft drawn.
- D. Hangers: Use pipe hangers where required on 8-foot centers with saddles to avoid crushing insulation.
- 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 exposed locations.

2.4 SHOCK ARRESTERS

- A. Provide shock arresters as required by codes, manufacturer's recommendations and accepted industry standards for quality 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.
- B. 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. Provide access doors as required to access valves, etc.

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.
- 3.4 INSULATION
- A. 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.

3.8 DRAINDOWN

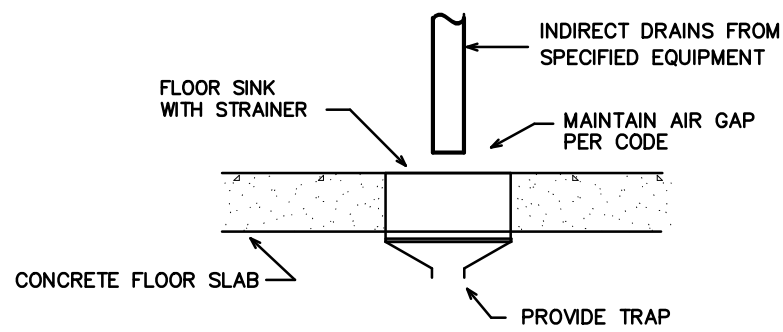
- A. Contractor to provide for complete plumbing system drain down.
- 3.9 CLEAN UP
- A. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of construction, clean, wash, and/or polish all fixtures, equipment and exposed material and leave them bright and clean.

3.10 GUARANTEES

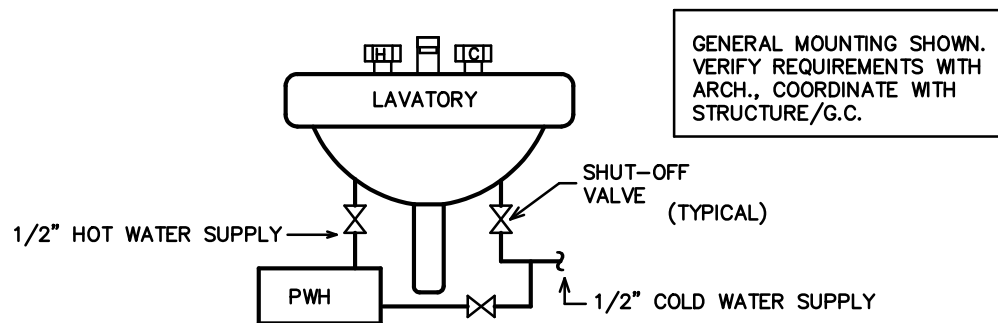
- A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.
- B. Any defects in the system which become evident during the guarantee period shall be corrected without cost to the Owner. This shall include the replacing of defective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

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 LOCATIONS.
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 HIGH TEMPERATURE HOT WATER (HTHW) AT 120 DEGREES (MAX.) F. PROVIDE/VERIFY LOW TEMPERATURE HOT WATER (LTHW) AT 110 DEGREES (MAX.) F. VERIFY LTHW FROM ALL LAVATORY/HAND SINK FAUCETS, ANY OTHER REQUIRED FIXTURES (VERIFY). PROVIDE THERMOSTATIC MIXING VALVES WHERE REQUIRED, AND PER CODE, WHETHER OR NOT SHOWN ON PLANS.
12. PROVIDE CLEANOUTS AS REQUIRED BY CODE. NOT MORE THAN 100 FEET FOR 4" DRAIN.



1 FLOOR SINK DETAIL
SCALE: NTS



- NOTES:
- 1) INSTALL WATER HEATER BELOW LAV. AND/OR CONCEALED IN CABINETRY.
 - 2) PC TO PROVIDE AND INSTALL WATER HEATER, EC TO WIRE.
 - 3) ALL WORK MUST BE DONE IN NEAT MANNER TO BE APPROVED BY ARCHITECT AND OWNER.

2 PWH DETAIL
SCALE: NTS

SYMBOL LEGEND – PLUMBING

SYMBOL	DESCRIPTION (U.O.N.)
_____	WASTE PIPING (W)
-----	VENT PIPING (V)
_____	COLD WATER PIPING (CW)
_____	HOT WATER PIPING (HW)
-----HTHW-----	HIGH TEMPERATURE HW PIPING (HTHW) 120 DEG. F
-----LTHW-----	LOW TEMPERATURE HW PIPING (LTHW) 110 DEG. F
○ COFF	CLEANOUT FINISH FLOOR
⊥ WCO/HCO	WALL/HORIZONTAL CLEANOUT
⊥ COFG	CLEANOUT FINISH GRADE--PROVIDE FLUSH CONCRETE COLLAR AND BRONZE COVER
⊥	DIELECTRIC UNION
⊥	SHUT-OFF VALVE
⊥	VENT THRU ROOF (VTR)
A.A.V.	AIR ADMITTANCE VALVE
A.F.F.	ABOVE FINISHED FLOOR
U.O.N.	UNLESS OTHERWISE NOTED

FIXTURE SCHEDULE – PLUMBING *

- FS-1 * FLOOR SINK #1
ZURN PVC FLOOR SINK MODEL FD-2370-PV2, 12" X 12", 1/2 GRATE, WITH 2" PIPE CONNECTION. VERIFY GRATE REQUIREMENTS.
- L1 * LAVATORY (WALL MOUNTED)
KOHLER CHESAPEAKE LAVATORY, K-172B, VITREOUS CHINA, 4" CENTERS, ADA COMPLIANT. PROVIDE DELTA MODEL 523LF-HQMDF FAUCET, 0.5 GPM MAX WITH GRID STRAINER. PROVIDE P-TRAP AND SHUT-OFF VALVES.
- L2 * LAVATORY (COUNTERTOP)
KOHLER PENNINGTON SELF RIMMING COUNTERTOP LAVATORY, K-2196, WHITE COLOR, ADA COMPLIANT, PROVIDE SLOAN OPTIMA JEBF-187 BATTERY OPERATED SENSOR FAUCET. PROVIDE DRAIN WITH GRID STRAINER, P-TRAP AND SHUT-OFF VALVES.
- PWH * POINT OF USE ELECTRIC WATER HEATER
EEMAX TANKLESS WATER HEATER #SP3512, 120V, 3,500W, 29A. PROVIDE FLEX CONNECTOR BRAIDED STAINLESS STEEL. INSTALL BELOW SINK/LAV. 48 DEGREE TEMPERATURE RISE AT 0.5 GPM.
- TMV * THERMOSTATIC MIXING VALVE (ASSE 1070)
WATTS LFUSG-B 'LEAD FREE' GUARDIAN. INSTALL IN MAINTENANCE ACCESSIBLE LOCATION BELOW LAV/SINK OR ABOVE CEILING. SET HW OUTFLOW TO SPECIFIED TEMPERATURE (110 DEG. F (MAX.) LTHW).
- UR * URINAL
KOHLER MODEL K-5016-ET, 3/4" TOP SPUD, ADA COMPLIANT W/PROPER INSTALL, 0.5 GPF, 2" OUTLET DRAIN. PROVIDE SLOAN G2 8166-0.5 BATTERY SENSOR FLUSH VALVE, 0.5 GPF. PROVIDE/VERIFY VALVE WITH OVERRIDE BUTTON.
- WC * WATER CLOSET (ADA FLUSH TANK)
TOTO DRAKE ELONGATED WATER CLOSET, #CST744SL-01, ADA COMPLIANT 1.6 GPF. PROVIDE PROPER OPEN FRONT SEAT, PROVIDE SEAT COVER IF REQUIRED PER ARCH/OWNER. PROVIDE SUPPLY AND STOP, WAX SEAL, CLOSET BOLT KIT. PROVIDE MODEL WITH FLUSH CONTROL ON SIDE OPPOSITE GRAB BAR.

* 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 WITH EQUIPMENT SERVED.

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION AND PREVIOUS
PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL
RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS.
NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING
BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILINGS, ETC., PRIOR TO START OF WORK,
THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID
AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C.
THE PLUMBING CONTRACTOR SHALL LOCATE, TRACE, AND INSPECT FOR PROPER DRAINAGE AND
CONDITION, ANY/ALL EXISTING BUILDING DRAINAGE LINES AND SYSTEMS (SANITARY, GREASE, ETC.)
THAT ARE TO BE UTILIZED BY THE OCCUPANT/NEW CONNECTIONS PER DESIGN DRAWINGS THROUGH
USE OF CAMERA, DYES, AND/OR ANY MEANS NECESSARY- PRIOR TO THE START OF WORK. THE
CONTRACTOR SHALL REMEDY ANY ISSUES IN ORDER TO ENSURE A PROPER FUNCTIONING, CODE
COMPLIANT SYSTEM, WHICH INCLUDES BUT IS NOT LIMITED TO, JETTING OF LINES, REMOVAL OF
DEBRIS, REPLACEMENT OF ANY IMPROPER OR DAMAGED PIPING, VERIFY AVAILABLE DEPTH/INVERT
REQUIREMENTS, FLOW DIRECTION OF EXISTING LINES, PROVIDE DOCUMENTATION TO THE ENGINEER
FOR REVIEW. THE EXISTING AND NEW DRAINAGE SYSTEMS/CONNECTIONS SHALL BE TESTED FOR
PROPER OPERATION UPON COMPLETION OF WORK. ALL ISSUES AND SOLUTION OPTIONS ARE TO BE
COORDINATED WITH THE DRAINAGE SYSTEM/BUILDING OWNER, G.C., ARCHITECT, AND ENGINEER.
PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW.

REMOVE UNUSED VENT LINES TO ABOVE CEILING AND CAP AT MAIN. REMOVE UNUSED DRAIN STUB-
OUTS, REMOVE UNUSED FLOOR SINKS, FLOOR DRAINS, ETC. IF/AS REQUIRED- COORDINATE W/TENANT,
AND PROVIDE CLEANOUTS AT FINAL FINISHES TO PREVENT DEAD-ENDS AS REQUIRED BY CODE.
REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILINGS, ETC., AS REQUIRED TO
LOCATE EXISTING LINES AND INSTALL NEW LINES. ALL EXISTING FIXTURES, ETC., MAY NOT BE SHOWN.
COORDINATE WITH G.C., TENANT/BLDG. OWNER, AND ARCHITECT FOR ITEMS TO BE REMOVED.

COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT
SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

NOTE:
DWV PIPING SHALL NOT BE UNNECESSARILY
EXPOSED. EXPOSED LINES SHALL BE INSTALLED
SO THEY DO NOT OBSTRUCT OR PREVENT
CLEANING OF THE FLOORS, WALLS, OR CEILINGS.
EXPOSED HORIZONTAL LINES MAY NOT BE
INSTALLED ON THE FLOOR. PROVIDE ANY STAND-
OFFS AS REQUIRED PER HEALTH DEPARTMENT.
RUN LINES TIGHT AND CONCEALED UNDER BAR/
EQUIPMENT, OR IN HALF WALL AS REQUIRED.
PROVIDE AIR INTAKE VENT/GRILLE FOR AAVS
WHERE REQUIRED.

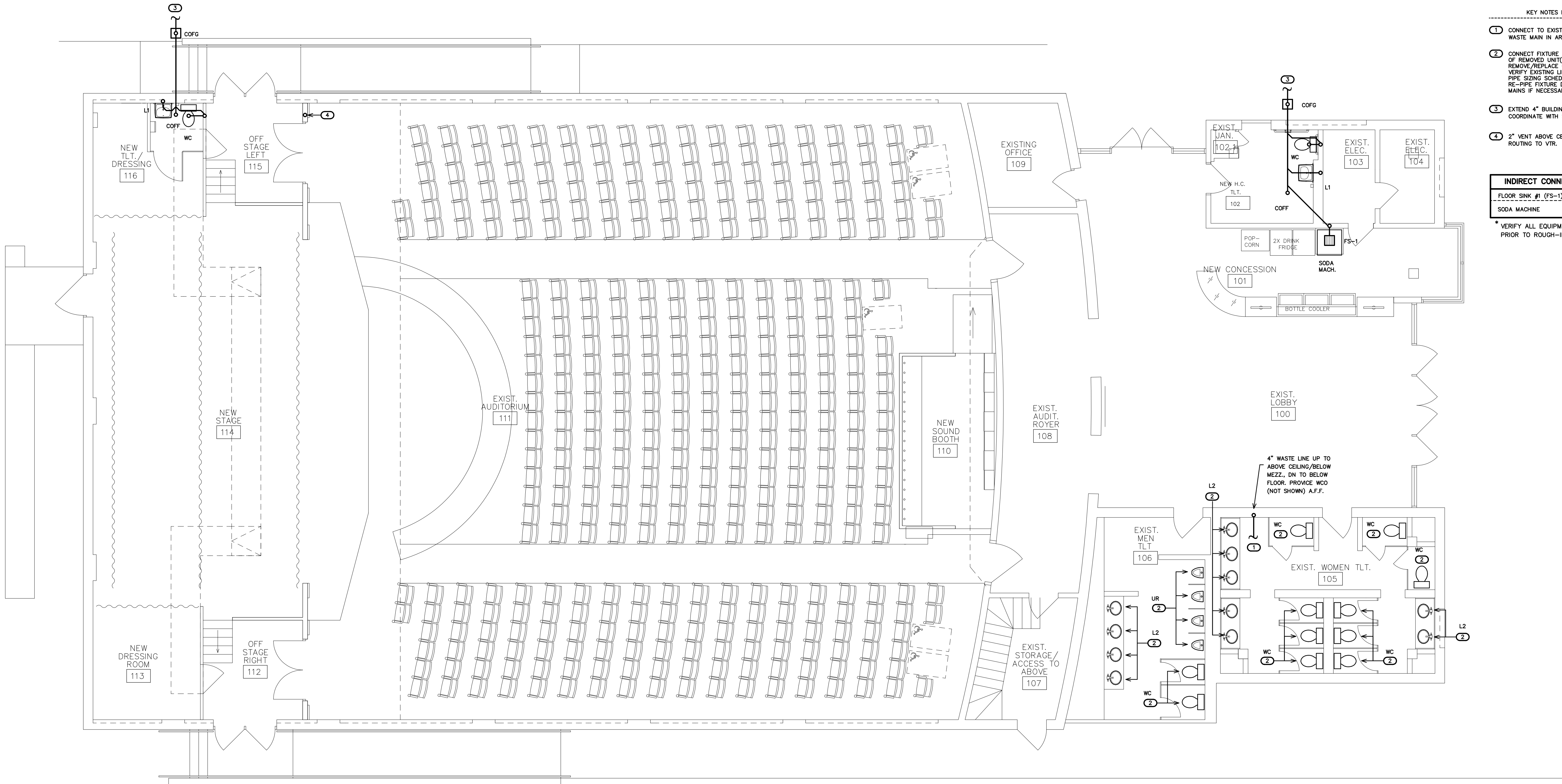
NOTE:
COORDINATE EXACT LOCATIONS OF FLOOR SINKS WITH
TENANT/EQUIPMENT SERVED PRIOR TO ROUGH-IN.
MINIMUM CLEARANCES FOR ALL EXPOSED INDIRECT DRAIN
LINES ARE 4" A.F.F., 1" FROM WALL, 1" FROM OTHERS.
ALL INDIRECT WASTE PIPING FROM EQUIPMENT EXCEEDING
50" IN DEVELOPED LENGTH HORIZONTALLY, OR 54" IN
TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. PROVIDE
DRAIN PIPING FOR SO THAT EACH WELL OF A MULTI-
COMPARTMENT SINK DISCHARGES INDEPENDENTLY TO A
WASTE RECEPTOR PER NCSCB-PLUMBING SECT. 802.1.1.
PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.

KEY NOTES FOR SHEET P2.1

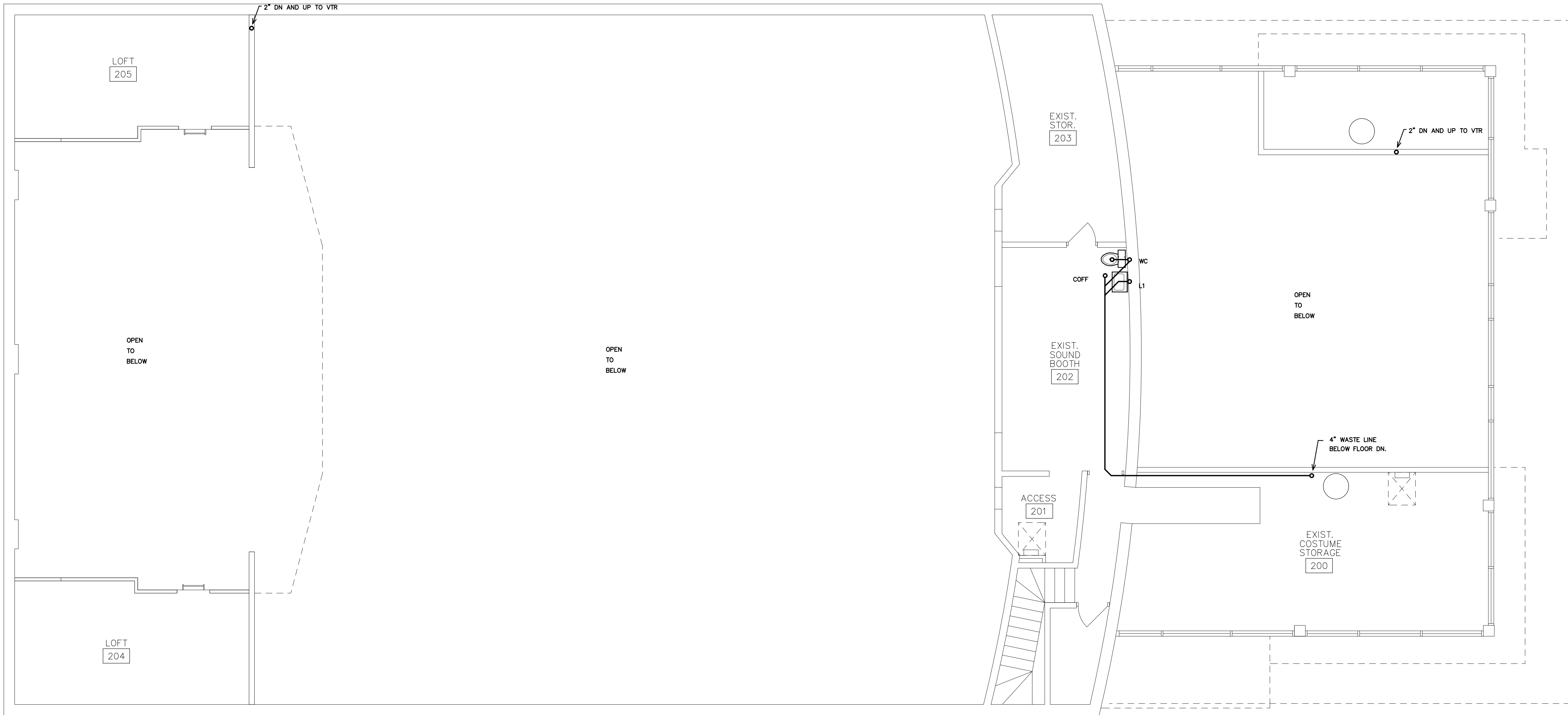
- CONNECT TO EXISTING 4" (MIN.) SANITARY
WASTE MAIN IN AREA. VERIFY LOCATION.
- CONNECT FIXTURE TO EXISTING DWV IN AREA
OF REMOVED UNIT(S). EXTEND/PROVIDE PIPING,
REMOVE/REPLACE CONCRETE AS REQUIRED.
VERIFY EXISTING LINE SIZES REQUIRED PER
PIPE SIZING SCHEDULE- SEE DWV RISER.
RE-PIPE FIXTURE DWV TO NEAREST EXISTING
MAINS IF NECESSARY/AS REQUIRED.
- EXTEND 4" BUILDING DRAIN TO SEWER MAIN.
COORDINATE WITH SITE UTILITIES.
- 2" VENT ABOVE CEILING UP. VERIFY LOCATION,
ROUTING TO VTR.

INDIRECT CONNECTION SCHEDULE *	
FLOOR SINK #1 (FS-1)	SIZE
SODA MACHINE	3/4"

* VERIFY ALL EQUIPMENT REQUIREMENTS
PRIOR TO ROUGH-IN.



P2.1 FIRST FLOOR DWV PLAN
SCALE: 3/16" = 1'-0"



NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION AND PREVIOUS PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILINGS, ETC., PRIOR TO START OF WORK, THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C. THE PLUMBING CONTRACTOR SHALL LOCATE, TRACE, AND INSPECT FOR PROPER DRAINAGE AND CONDITION, ANY/ALL EXISTING BUILDING DRAINAGE LINES AND SYSTEMS (SANITARY, GREASE, ETC.) THAT ARE TO BE UTILIZED BY THE OCCUPANT/NEW CONNECTIONS PER DESIGN DRAWINGS THROUGH USE OF CAMERA, DYES, AND/OR ANY MEANS NECESSARY— PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL REMEDY ANY ISSUES IN ORDER TO ENSURE A PROPER FUNCTIONING, CODE COMPLIANT SYSTEM, WHICH INCLUDES BUT IS NOT LIMITED TO, JETTING OF LINES, REMOVAL OF DEBRIS, REPLACEMENT OF ANY IMPROPER OR DAMAGED PIPING, VERIFY AVAILABLE DEPTH/INVERT REQUIREMENTS, FLOW DIRECTION OF EXISTING LINES, PROVIDE DOCUMENTATION TO THE ENGINEER FOR REVIEW. THE EXISTING AND NEW DRAINAGE SYSTEMS/CONNECTIONS SHALL BE TESTED FOR PROPER OPERATION UPON COMPLETION OF WORK. ALL ISSUES AND SOLUTION OPTIONS ARE TO BE COORDINATED WITH THE DRAINAGE SYSTEM/BUILDING OWNER, G.C., ARCHITECT, AND ENGINEER. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW.

REMOVE UNUSED VENT LINES TO ABOVE CEILING AND CAP AT MAIN. REMOVE UNUSED DRAIN STUB-OUTS, REMOVE UNUSED FLOOR SINKS, FLOOR DRAINS, ETC. IF/AS REQUIRED— COORDINATE W/TENANT, AND PROVIDE CLEANOUTS AT FINAL FINISHES TO PREVENT DEAD-ENDS AS REQUIRED BY CODE.

REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILINGS, ETC., AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES. ALL EXISTING FIXTURES, ETC., MAY NOT BE SHOWN. COORDINATE WITH G.C., TENANT/BLDG. OWNER, AND ARCHITECT FOR ITEMS TO BE REMOVED.

COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

MEZZANINE LEVEL DWV PLAN
SCALE: 3/16" = 1'-0"

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Architecture
PLLC

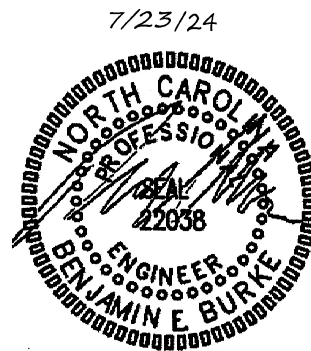
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CARTERET COMMUNITY
THEATRE REPAIRS
MOREHEAD CITY, NORTH CAROLINA



MEZZANINE LEVEL
DWV PLAN

24034

ISSUED: 7/23/2024
DWG BY: MRH
CKD BY: BEB

REVISIONS	

SHEET NO.
P2.2

NOTE:
WATER LINES SHOWN FOR CLARITY.
VERIFY ROUTING OF ALL WATER
LINES ON MEZZANINE, ABOVE
CEILING/BELOW ROOF STRUCTURE,
TO WATER HEATERS, ETC., WITH
ARCHITECT AND OWNER. COORDINATE
W/EXISTING STRUCTURE, ALL TRADES.
COORDINATE W/ARCH. OWNER FOR
ANY INSTALLATION CONSIDERATIONS
(ROUTING, HW/CW INSULATION, ETC.)
IN DRESSING ROOM, ETC.

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION AND PREVIOUS
PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL
RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS.
NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

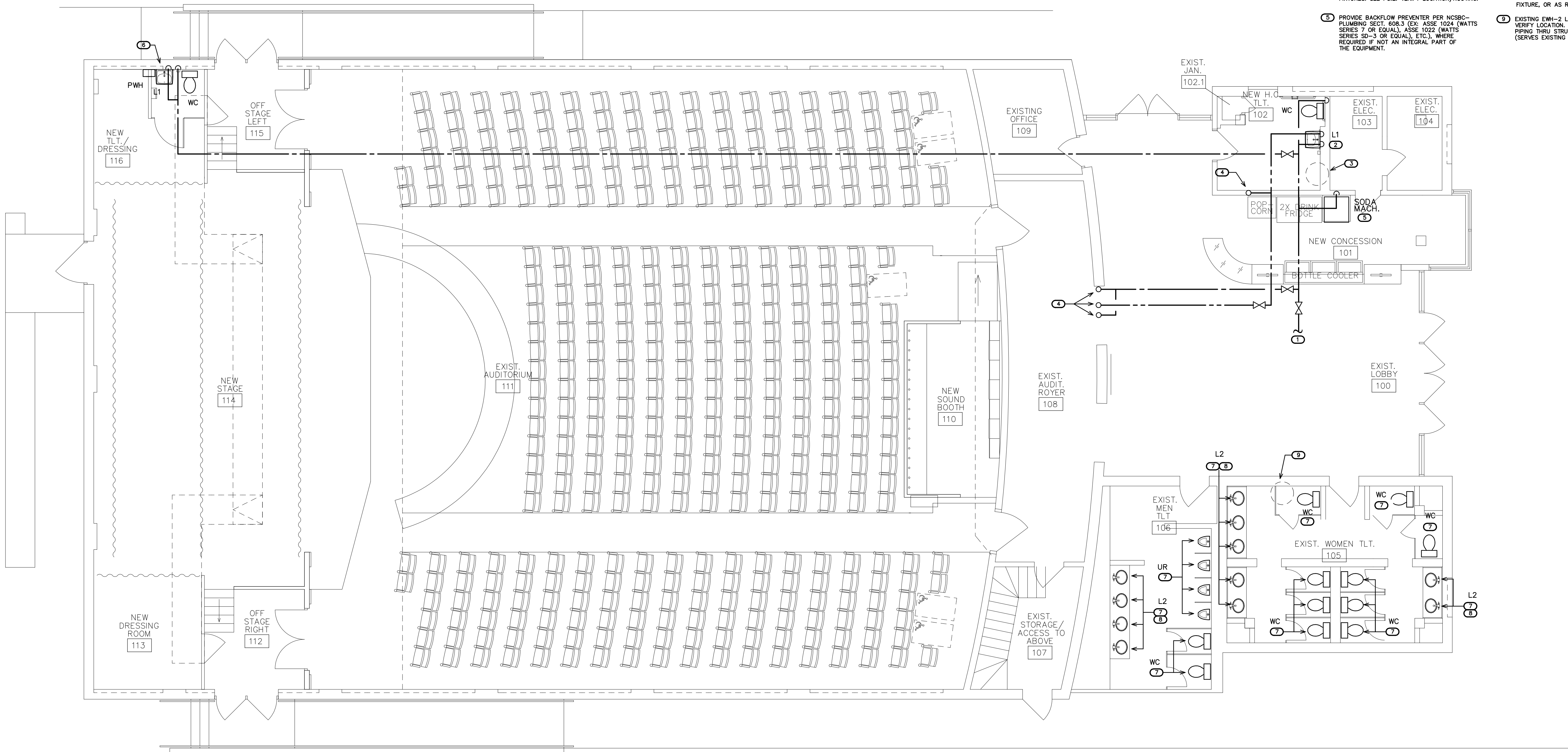
IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING
BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILINGS, ETC., PRIOR TO START OF WORK,
THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID
AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C.

REMOVE ALL UNUSED CW AND HW LINES/STUB-OUTS, ETC., AND CAP LINES BEHIND FINAL FINISHES.
REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILINGS, ETC., AS REQUIRED TO
LOCATE EXISTING LINES AND INSTALL NEW LINES. ALL EXISTING FIXTURES, ETC., MAY NOT BE SHOWN.
COORDINATE WITH G.C., TENANT/BLDG. OWNER, AND ARCHITECT FOR ITEMS TO BE REMOVED.

COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT
SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

KEY NOTES FOR SHEET P3.1

- CONNECT TO EXISTING 1" (MIN.) CW ABOVE
CEILING OR AS REQUIRED. VERIFY LOCATION.
- PROVIDE TMV AT LAVATORY FOR CW AND
110 DEG. F (MAX) LTHW TO FAUCET.
LOCATE TMV (NOT SHOWN) IN PROPER
MAINTENANCE ACCESSIBLE AREA BELOW
FIXTURE, OR AS REQUIRED.
- EXISTING EWH-1 LOCATED ON MEZZANINE ABOVE.
VERIFY LOCATION. VERIFY ROUTING OF WATER
PIPING THRU STRUCTURE.
- RISE WATER LINES THRU MEZZANINE TO
FIXTURES. SEE P3.2. VERIFY LOCATION/ROUTING.
- PROVIDE BACKFLOW PREVENTER PER NC80C-
PLUMBING SECT. 608.3 (EX: ASSE 1024 (WATTS
SERIES 7 OR EQUAL), ASSE 1022 (WATTS
SERIES 50-3 OR EQUAL), ETC.), WHERE
REQUIRED IF NOT AN INTEGRAL PART OF
THE EQUIPMENT.
- EXTEND CW TO LAV AND PWH, HW (NOT
SHOWN) FROM PWH TO LAV. VERIFY PWH
LOCATION, SEE DETAIL ON P1.
- CONNECT FIXTURE TO EXISTING HW AND/OR CW
IN AREA OF REMOVED UNIT. EXTEND/PROVIDE
PIPING AS REQUIRED. VERIFY EXISTING LINE SIZE
REQUIRED PER PIPE SIZING SCHEDULE- THIS SHEET.
RE-PIPE FIXTURE SUPPLY TO NEAREST EXISTING
HW AND/OR CW MAIN IF NECESSARY/AS REQUIRED.
- PROVIDE TMV AT LAVATORY FOR 110 DEG.
F (MAX) LTHW ONLY TO SENSOR FAUCET.
LOCATE TMV (NOT SHOWN) IN PROPER
MAINTENANCE ACCESSIBLE AREA BELOW
FIXTURE, OR AS REQUIRED.
- EXISTING EWH-2 LOCATED ON MEZZANINE ABOVE.
VERIFY LOCATION. VERIFY ROUTING OF WATER
PIPING THRU STRUCTURE.
(SERVES EXISTING RESTROOM FIXTURES.)



P3.1 FIRST FLOOR WATER PLAN
SCALE: 3/16" = 1'-0"



NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION AND PREVIOUS PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILINGS, ETC., PRIOR TO START OF WORK, THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C.

REMOVE ALL UNUSED CW AND HW LINES/STUB-OUTS, ETC., AND CAP LINES BEHIND FINAL FINISHES. REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILINGS, ETC., AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES. ALL EXISTING FIXTURES, ETC., MAY NOT BE SHOWN. COORDINATE WITH G.C., TENANT/BLDG. OWNER, AND ARCHITECT FOR ITEMS TO BE REMOVED.

COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

- KEY NOTES FOR SHEET P3.2
- 1 EXISTING EWH-1 ON MEZZANINE LEVEL. VERIFY LOCATION. VERIFY PROPER CW CONNECTION. PROVIDE IF REQUIRED. VERIFY ROUTING OF WATER LINES.
 - 2 PROVIDE TMV AT LAVATORY FOR CW AND 110 DEG. F (MAX) LTHW TO FAUCET. LOCATE TMV (NOT SHOWN) IN PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED.
 - 3 WATER LINES DROP TO MAINS BELOW FLOOR. SEE SHEET P 3.1 VERIFY LOCATION/ROUTING.
 - 4 EXISTING EWH-2 ON MEZZANINE LEVEL. VERIFY UNIT AND ALL ASSOCIATED COMPONENTS ARE IN PROPER WORKING CONDITION. REPLACE IF REQUIRED. (SERVES EXISTING RESTROOM FIXTURES.)

MEZZANINE LEVEL WATER PLAN
SCALE: 3/16" = 1'-0"

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CARTERET COMMUNITY
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MOREHEAD CITY, NORTH CAROLINA

7/23/24

Professional Engineer Seal for Benjamin E. Durbin, State of North Carolina, License No. 22039.

MEZZANINE LEVEL
WATER PLAN

24034

ISSUED: 7/23/2024
DWG BY: MRH
CKD BY: BEB

REVISIONS	

SHEET NO.
P3.2

KEY NOTES FOR DRAWING 1/P4

- CONNECT TO EXISTING 4" (MIN.) SANITARY WASTE MAIN IN AREA. VERIFY LOCATION.
- CONNECT TO EXISTING 3" VENT MAIN/VTR ABOVE CEILING. VERIFY LOCATION. PROVIDE NEW 3" VTR IF REQUIRED. VERIFY ROUTING THRU MEZZANINE/ROOF.
- EXTEND 4" BUILDING DRAIN TO SEWER MAIN. COORDINATE WITH SITE UTILITIES.

(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

PIPE SIZING SCHEDULE				
FIXTURE TYPE	DRAIN	VENT	CW	HW
(FS-6 THRU 14) FLOOR SINK #6-14	2"	1-1/4"	-	-
(LAV) LAVATORY	1-1/2"	1-1/4"	1/2"	1/2"
SODA MACHINE	-	-	1/2"*	-
(UR) URINAL	2"	1-1/4"	3/4"	-
(WC) FLUSH TANK WATER CLOSET	3"	1-1/2"	1/2"	-

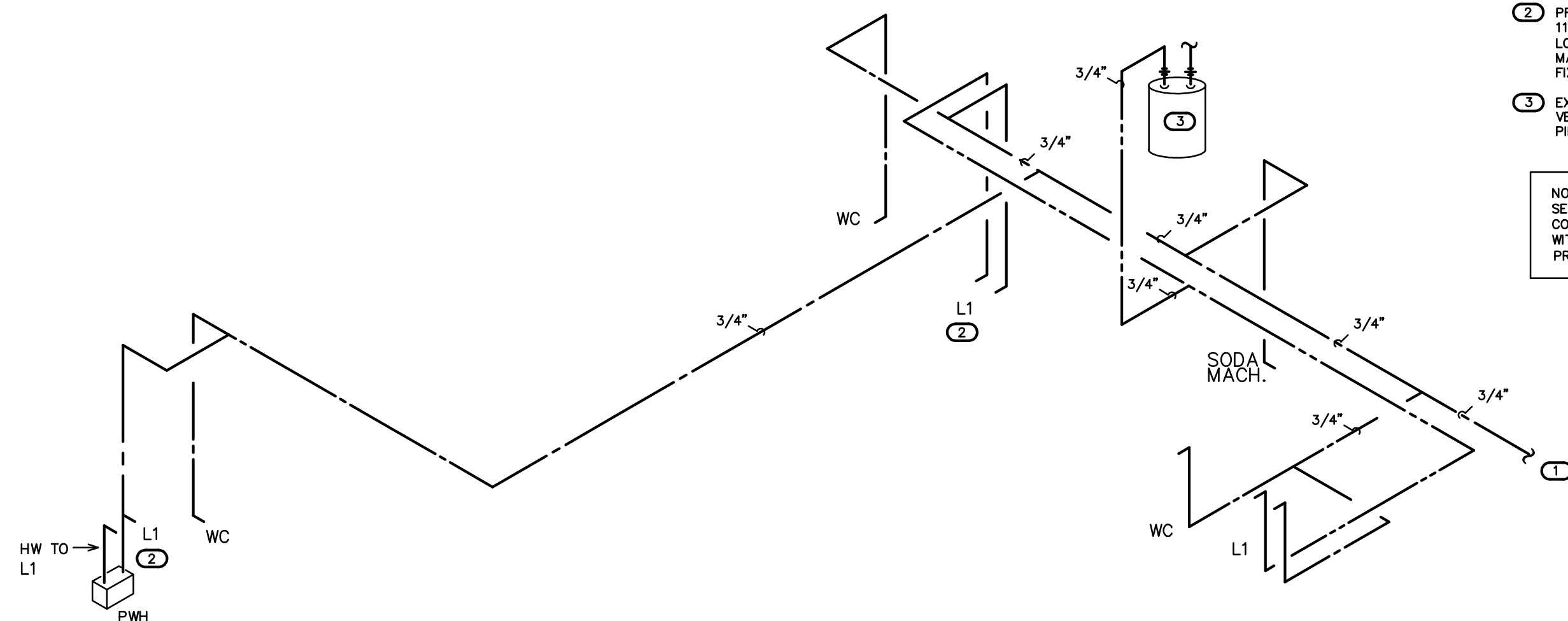
* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3, EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL) ASSE 1022 (WATTS SERIES SD-3 EQUAL) ETC., WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.

KEY NOTES FOR DRAWING 2/P4

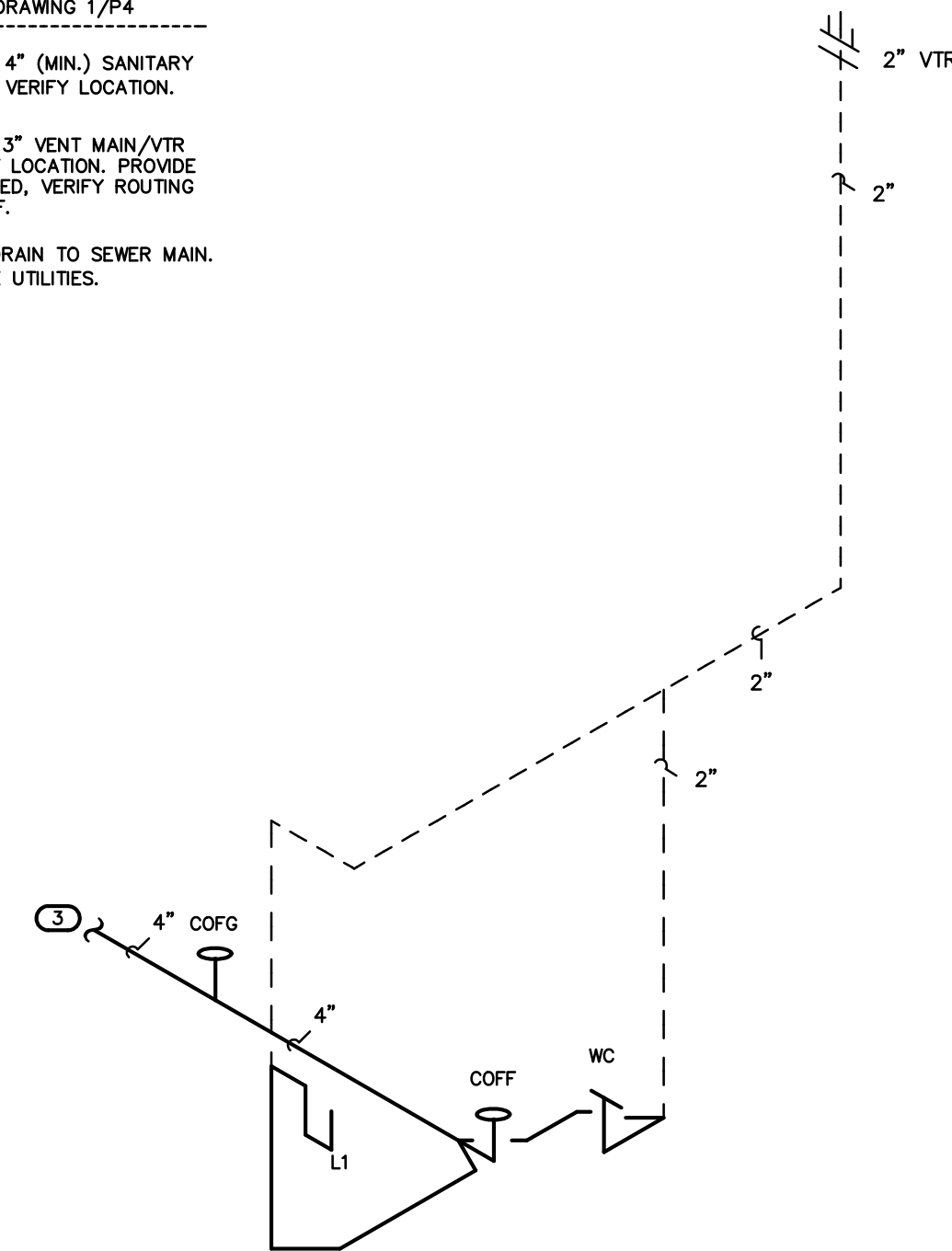
- CONNECT TO EXISTING 1" (MIN.) CW ABOVE CEILING OR AS REQUIRED. VERIFY LOCATION.
- PROVIDE TMV AT LAVATORY FOR CW AND 110 DEG. F (MAX) LTHW TO FAUCET. LOCATE TMV (NOT SHOWN) IN PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED.
- EXISTING EWH-1 LOCATED ON MEZZANINE ABOVE. VERIFY LOCATION. VERIFY ROUTING OF WATER PIPING THRU STRUCTURE.

NOTE:
SEE PLAN FOR SHUT-OFF VALVE LOCATIONS.
COORDINATE LOCATION AND NUMBER
WITH LOCAL INSPECTIONS DEPARTMENT.
PROVIDE ACCESS DOORS IF REQUIRED.

NOTE:
PROVIDE PROPER VENT THRU ROOF (VTR).
RUN HORIZONTALLY AS REQUIRED TO
MAINTAIN 10'-0" CLEARANCE FROM ANY
INTAKES. PROPERLY FLASH ANY ROOF
PENETRATION. (TYP)



2 WATER RISER
SCALE: 3/16" = 1'-0"



1 DWV RISER
SCALE: 3/16" = 1'-0"

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Content: Theatre -- Redesign M1.0	
DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE	
DHP-1 OUTDOOR HEAT PUMP UNIT	MITSUBISHI MODEL #MXZ-2B20NA, 1.5 TON OUTDOOR HEAT PUMP UNIT, 18 SEER, 208 VOLT, 1 PHASE, CONDENSING UNIT 15A MCA, 20A MOCP. FAN COIL UNIT IS POWERED VIA FIELD PROVIDED WIRING FROM OUTDOOR UNIT. SERVES (2) INDOOR FAN-COIL UNITS (DFC-1.1, DFC-1.2).
DFC-1.1 DIRECT EXPANSION FAN COIL UNIT	MITSUBISHI MODEL #MSZ-GE09NA FAN COIL UNIT, NET COOLING CAPACITY = 6,000 BTUH, 145 CFM LO TO 400 CFM HI, 0.5 TON NOMINAL. PROVIDE WIRED PROGRAMMABLE THERMOSTAT, AND CONDENSATE PUMP. FAN MOTOR 0.76, FLA 208 VOLT, SINGLE PH.
DFC-1.2 DIRECT EXPANSION FAN COIL UNIT	MITSUBISHI MODEL #MSZ-GE12NA FAN COIL UNIT, NET COOLING CAPACITY = 12,000 BTUH, 145 CFM LO TO 400 CFM HI, 1 TON NOMINAL. PROVIDE WIRED PROGRAMMABLE THERMOSTAT, AND CONDENSATE PUMP. FAN MOTOR 0.76, FLA 208 VOLT, SINGLE PH.

* OR APPROVED EQUAL.

Content: Theatre -- Redesign M1.0	
HVAC EQUIPMENT SCHEDULE	
HVAC SYSTEM #1	
AHU #1 DIRECT EXPANSION FAN COIL UNIT	* CARRIER MODEL #FX4CNF037, 4 WAY, MULTIPOISE FAN COIL UNIT, 6 KW HEATER, NOMINAL CAPACITY = 36,000 BTUH, 1200 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE, 3 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR. 1/2HP, 4.1A MOTOR FLA, 28.9A HEAT FLA, 208V, 1 PH, 44.7A MCA, 45A MOCP. AHU & HEAT.
HP #1 OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HC536A0030, 3 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 208 VOLT, 1 PHASE, COMP 16.7A FLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 22.1A MCA, 35A MOCP.

* OR APPROVED EQUAL.

AHU CONTROL NOTE:
FOR EACH AIR HANDLING UNIT PROVIDE "SIMPLE ENGINEERED SOLUTIONS" MODEL #HPDM-XX HEAT PUMP DEHUMIDIFICATION CONTROL MODULE. PROVIDE PROGRAMMABLE ELECTRONIC THERMOSTAT WITH AUTO CHANGEOVER AND HUMIDISTAT FUNCTION. THERMOSTAT SHALL BE COMPATIBLE WITH DEHUMIDIFICATION CONTROL MODULE. PURPOSE OF DEHUMIDIFICATION CONTROL MODULE IS TO INITIATE COOLING MODE WHEN HUMIDISTAT SENSES HUMIDITY OVER SETPOINT AND ENERGIZE AND CONTROL ELECTRIC HEAT TO MAINTAIN SPACE TEMPERATURE.

Content: Theatre -- Redesign M1.0	
EXHAUST FAN SCHEDULE	
EXHAUST FAN #1 (EF-1)	* CARNES MODEL# VCDD010C EXHAUST FAN, 93 CFM @ 1/4" SP, 640 RPM, 1.1 AMPS, 120V, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 6" RIGID DUCT TO WALL CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.

* OR APPROVED EQUAL.

AIR DISTRIBUTION SCHEDULE							
MARK	* MANUFACTURER	MODEL NO.	NECK SIZE	FACE SIZE	MATERIAL	SERVICE	NOTES
A	CARNES	SPAB224	SEE FLEXIBLE DUCT SCHEDULE	24" X 24"	STEEL	SUPPLY	LAY-IN CEILING, WHITE 4-WAY BLOW
B	CARNES	SKSA40	12" DIA	15" X 15"	STEEL	SUPPLY	GYPSPUM BOARD CEILING, WHITE 4-WAY BLOW
C	CARNES	SKSA40	10" DIA	15" X 15"	STEEL	SUPPLY	GYPSPUM BOARD CEILING, WHITE 4-WAY BLOW
D	CARNES	SKSA40	8" DIA	12" X 12"	STEEL	SUPPLY	GYPSPUM BOARD CEILING, WHITE 4-WAY BLOW
E	CARNES	CTGB	48" X 4"	49 X 5"	ALUMINUM.	SUPPLY	COLOR SELECTED BY ARCH. ** FLOOR MOUNTED LINEAR DIFFUSER
F	CARNES	SSEA	12" DIA	22" DIA	STEEL	SUPPLY	DUCT MOUNTED DIFFUSER COLOR SELECTED BY ARCHITECT
G	CARNES	RTDBH	6" X 6"	8" X 8"	STEEL	SUPPLY	DUCT, SIDE WALL, MOUNTED, WHITE
H	CARNES	RTDBH	10" X 6"	12" X 8"	STEEL	SUPPLY	DUCT, SIDE WALL, MOUNTED, WHITE
J	CARNES	RTDBH	12" X 6"	14" X 8"	STEEL	SUPPLY	DUCT, SIDE WALL, MOUNTED, WHITE
RA	CARNES	RSABH	24" X 24"	26" X 26"	STEEL	RETURN	WHITE, SIDEWALL MOUNTED
RB	CARNES	RSABH	48" X 36"	50" X 38"	STEEL	RETURN	WHITE, SIDEWALL MOUNTED
RC	CARNES	RSABH	12" X 8"	14" X 10"	STEEL	RETURN	WHITE, DUCT MOUNTED
RD	CARNES	RSABH	10" X 6"	12" X 8"	STEEL	RETURN	WHITE, DUCT MOUNTED
RE	CARNES	SPRB22	SEE FLEXIBLE DUCT SCHEDULE	24" X 24"	STEEL	RETURN	LAY-IN CEILING, WHITE
EA	CARNES	RATA	14" X 14"	16" X 16"	ALUMINUM	EXHAUST	GYPSPUM BOARD CEILING, WHITE

* OR APPROVED EQUAL.

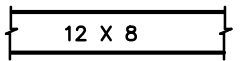
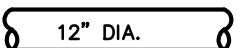
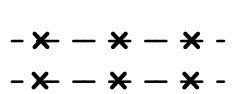
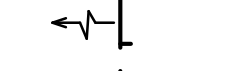
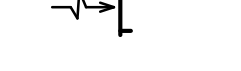
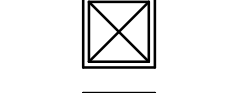
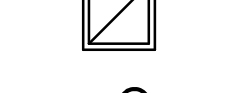
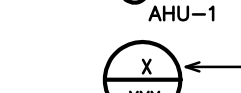
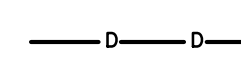
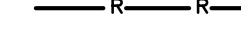
** PROVIDE LINED PLENUM BOX ON GRILLE OR DIFFUSER WITH ROUND CONNECTION FOR FLEXIBLE DUCT.

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

GENERAL NOTES - MECHANICAL

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- 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.
- THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
- 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.
- THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- 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.
- DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
- 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.
- 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.
- THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- 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.

LEGEND - MECHANICAL

	RECTANGULAR DUCTWORK, INSIDE CLEAR DIMENSION INDICATED (WIDTH X HEIGHT)
	FLEXIBLE DUCTWORK
	ROUND GALVANIZED STEEL DUCT INSIDE CLEAR DIMENSION INDICATED.
	ITEMS TO BE REMOVED
	DUCT MOUNTED ON SIDE WALL SUPPLY AIR DIFFUSER
	DUCT MOUNTED ON SIDE WALL RETURN AIR GRILLE
	SUPPLY DIFFUSER
	RETURN GRILLE
	WALL MOUNTED THERMOSTAT (UNIT SERVED IS INDICATED)
	GRILLE TYPE MIN. CFM
	DUCT TYPE SMOKE DETECTOR
	CONDENSATE PIPING
	REFRIGERANT PIPING

THEATER, LOBBY, STAGE

APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

Thermal Zone	
winter dry bulb	18F
summer dry bulb	93F
Interior Design Conditions	
winter dry bulb	72F
summer dry bulb	75F
relative humidity	50%
Building Heating Load (Phase I only)	289,500 BTU/hr
Building Cooling Load (Phase I only)	497,500 BTU/hr
Mechanical Spacing Conditioning System	
Unitary -- The building is served the following systems: (3) Exist. 10 Ton roof-top single package heat pump units. (1) Exist. 7.5 Ton roof-top single package heat pump unit. (1) New 3 Ton split system heat pump unit. (1) New 1.5 Ton ductless split system heat pump unit with (2) indoor fan-coil units.	
Boiler -- Not applicable to this project.	
Chiller -- Not applicable to this project.	
Equipment efficiencies Efficiencies and outputs are listed on equipment schedules -- See drawings.	

FLEXIBLE DUCTWORK SIZES MAXIMUM CFM'S		
SIZES	SUPPLY	RETURN
4"	100	100
6"	115	115
10"	250	250
12"	400	350
14"	550	500
16"	950	900

FOR HIGHER CFM RATES FLEXDUCT SHALL MATCH EXISTING EXISTING ROUND DUCT SIZE

FLEXIBLE DUCTWORK NOTES

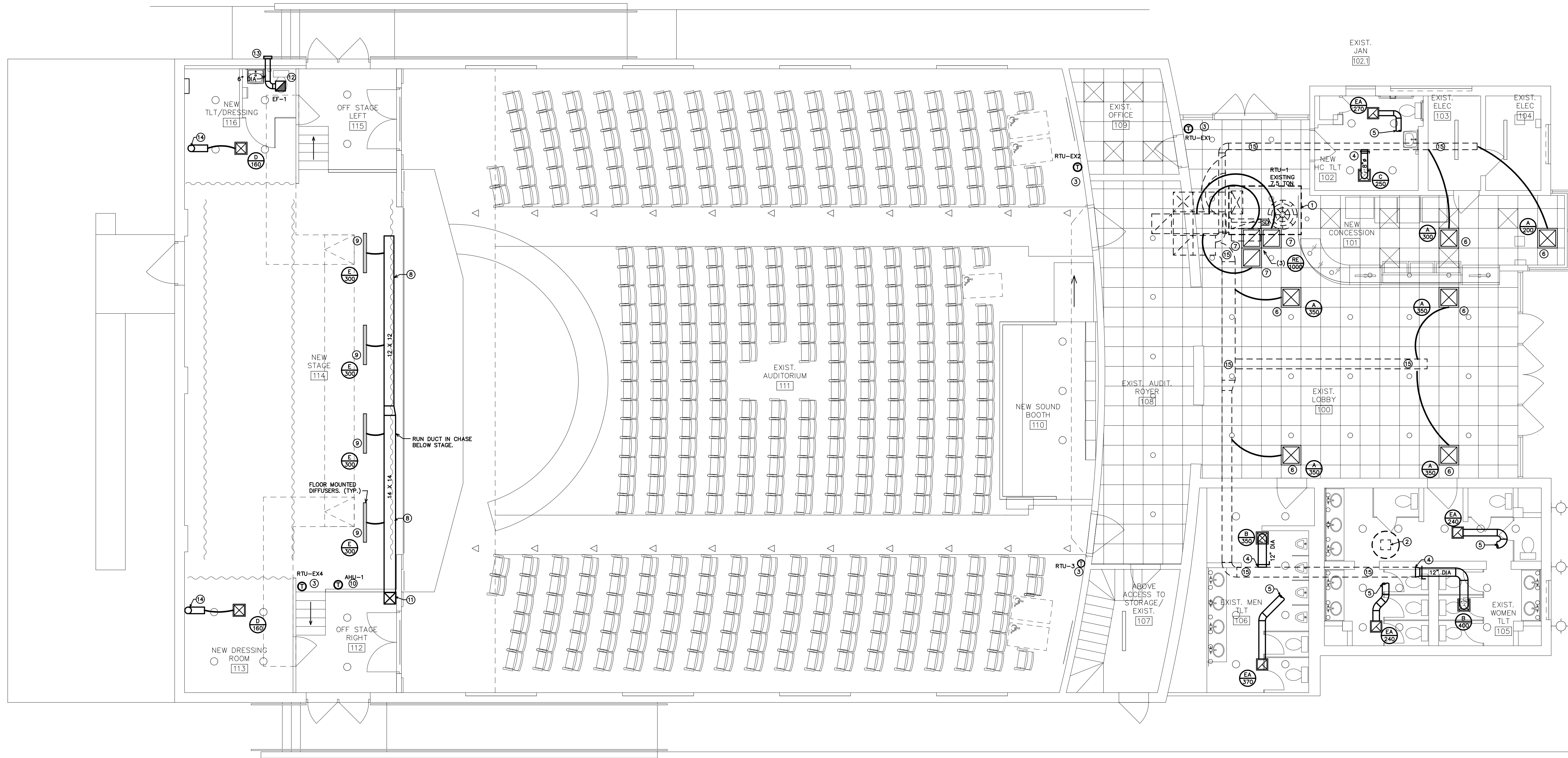
- INSTALL FLEXIBLE DUCTWORK RUNS AS STRAIGHT AS POSSIBLE.
- DO NOT ALLOW FLEXIBLE DUCT TO SAG BETWEEN SUPPORTS.
- DO NOT STRETCH A SHORT SECTION TO FIT A SLIGHTLY LONGER SECTION. THIS DISTORTS THE DUCT SHAPE AND IMPEDES AIR FLOW.
- DO NOT CRUSH DUCTWORK TO FIT IN A SPACE SMALLER THAN ITS ORIGINAL OUTSIDE DIAMETER. MAXIMUM ALLOWABLE DEFORMATION IS 15% OF ORIGINAL VOLUME.
- USE RIGID 90 DEGREE ELBOWS AT ANY LOCATION WHERE THE DUCTWORK BECOMES DISTORTED.
- EXTREME CARE SHALL BE TAKEN TO ELIMINATE ANY REDUCTION IN FLOW WITHIN THE FLEXIBLE DUCTS. THE MECH. CONTRACTOR WILL BE REQUIRED TO REPLACE THE FLEXIBLE DUCT WITH RIGID IF PROPER FLOW IS NOT OBTAINED.
- SIZE ALL FLEXIBLE DUCT SO AS NOT TO EXCEED MAXIMUM CFM'S GIVEN IN TABLE.

OA SCHEDULE

OA SCHEDULE									OUTDOOR VENTILATION AIR PROVIDED PER TABLE 403.3 NCSBC MECHANICAL CODE. (THIS SCHEDULE IS FOR PHASE I ONLY – THEATER, LOBBY, STAGE AREAS)	
APPLICATION	SQUARE FOOTAGE (SF)	AREA OUTDOOR AIR FLOW RATE (CFM/SF)	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	OCCUPANCY DENSITY RATE (# PEOPLE/ 1000SF)	OCCUPANCY (# PEOPLE)	AREA OUTDOOR AIR FLOW (CFM)	PEOPLE OUTDOOR AIR FLOW (CFM)	TOTAL (CFM)		
STAGE	1137	0.06	10	70	30 *	68	300	368		
AUDITORIUM	4135	0.06	5	150	500*	248	2500	2748		
OFFICE	423	0.06	5	5	6	25	10	35		
STORAGE	170	0.12	–	–	–	20	–	20		
CORRIDOR	1417	0.06	–	–	–	85	–	85		
TOTAL REQUIRED								3256		
OUTDOOR AIR PROVIDED FROM EACH HVAC UNIT									**	
HVAC UNIT						OUTDOOR AIR (CFM)				
RTU–EX1						500				
RTU–EX2						950				
RTU–EX3						950				
RTU–EX4						900				
TOTAL PROVIDED						3300				
APPLICATION						CFM				
TOILETS						70 CFM/FLUSHING FIXTURE				
12 FLUSHING FIXTURE X 70 CFM = 840 CFM										
EXHAUST PROVIDED BY ONE EXISTING & TWO NEW EXHAUST FANS, MAKE UP AIR BY TRANSFER AIR										

** SET OUTDOOR AIR DAMPER CONTROLS TO PROVIDE OUTDOOR AIR AS INDICATED IN THIS SCHEDULE.

* ACTUAL OCCUPANCY PER BUILDING TENANT.



HVAC NOTES:
EXISTING HVAC SYSTEMS SHALL REMAIN "AS-IS" UNLESS OTHERWISE INDICATED OR NOTED.
SEE PREVIOUS HVAC RENOVATION DRAWINGS DATED 2/26/19 FOR PREVIOUSLY PERMITTED WORK. VERIFY IF INSTALLED OR NOT. IF NOT, PROVIDE FOR A COMPLETE OPERATING PROJECT. (TYPICAL.)

- KEY NOTES FOR M-2.0
- EXISTING ROOF-TOP SINGLE PACKAGE UNIT HEAT PUMP UNIT TO REMAIN.
 - EXISTING ROOF MOUNTED TOILET EXHAUST FAN TO REMAIN.
 - NEW LOCATION FOR EXISTING THERMOSTAT. MOUNT AT 48" AFF.
 - CONNECT NEW SUPPLY AIR DUCT TO EXISTING SUPPLY AIR DUCT.
 - CONNECT NEW EXHAUST DUCT TO EXISTING EXHAUST DUCT. MATCH SIZE OF EXISTING DUCT. SEE 1/M2.1 FOR CONTINUATION.
 - NEW SUPPLY AIR DIFFUSER. CONNECT FLEXIBLE DUCT TO EXISTING RECTANGULAR SUPPLY AIR DUCT.
 - NEW RETURN AIR GRILLE. CONNECT FLEXIBLE DUCT TO EXISTING RECTANGULAR RETURN AIR DUCT.
 - RUN NEW SUPPLY AIR DUCT IN CHASE BELOW STAGE. DUCT SHALL HAVE INTERNAL DUCT LINER INSULATION.
 - LINEAR FLOOR REGISTER. PROVIDE 6"-0" MIN FLEXIBLE DUCT TO REGISTER.
 - MOUNT NEW THERMOSTAT AT 48" AFF. COORDINATE EXACT LOCATION WITH OWNER.
 - 14 X 14 SUPPLY AIR DUCT UP IN CHASE TO MEZZANINE. DUCT SHALL HAVE INTERNAL DUCT LINER INSULATION. SEE 1/M-2.1 FOR CONTINUATION.
 - NEW CEILING CABINET EXHAUST FAN.
 - NEW WALL EXHAUST CAP. EXHAUST DISCHARGE SHALL BE 10'-0" MIN. FROM ANY OUTSIDE AIR INTAKE.
 - 8" DIA. SUPPLY AIR DUCT UP TO MEZZANINE LEVEL. SEE 1/M-3.2 FOR CONTINUATION.
 - EXISTING RECTANGULAR RIGID SUPPLY AIR DUCT CONCEALED ABOVE NEW SUSPENDED ACOUSTICAL CEILING AND RUNNING THROUGH UPPER LEVEL STORAGE SPACES.

1 NEW FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

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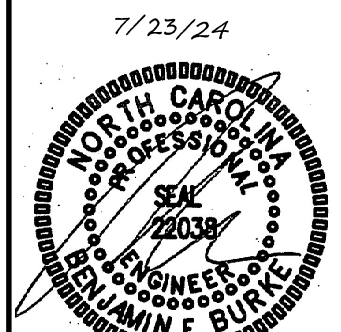
Coastal
Architecture
PLLC
Architectural
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Planning
Interiors



Member of the American
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CARTERET COMMUNITY
THEATRE REPAIRS
MOREHEAD CITY, NORTH CAROLINA



REVISED HVAC PLAN

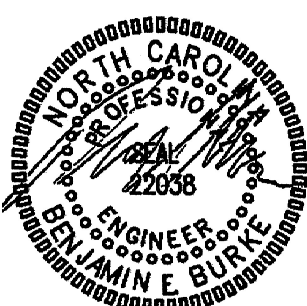
24034

ISSUED: 07/23/24
DWG BY: CLS
CKD BY: BEB
REVISIONS

SHEET NO.

M2.0

7/23/24



REVISED HVAC PLAN

24034

ISSUED: 07/23/24

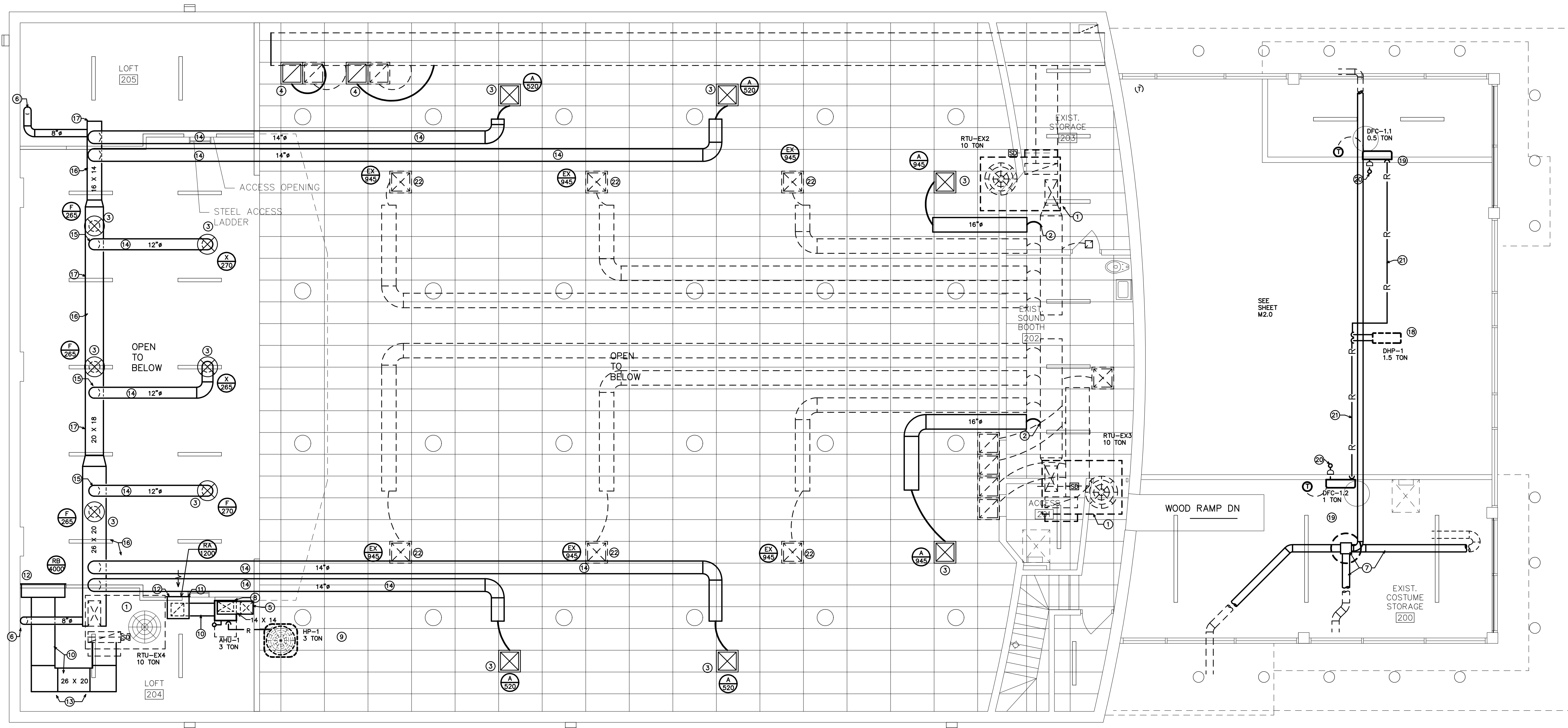
DWG BY: CLS

CKD BY: BEB

REVISIONS

SHEET NO.

M2.1



KEY NOTES FOR M-3.2

- ① EXISTING ROOF-TOP SINGLE PACKAGE UNIT HEAT PUMP UNIT TO REMAIN.
- ② CONNECT NEW SUPPLY AIR DUCT TO EXISTING SUPPLY AIR DUCT.
- ③ NEW SUPPLY AIR DIFFUSER.
- ④ NEW LOCATION FOR EXISTING RETURN AIR GRILLE. CONNECT FLEXIBLE DUCT TO EXISTING RECTANGULAR RETURN AIR DUCT.
- ⑤ 14 X 14 SUPPLY AIR DUCT DOWN IN CHASE TO FIRST. DUCT SHALL HAVE INTERNAL DUCT LINER INSULATION. SEE 1/M-3.1 FOR CONTINUATION.
- ⑥ 8" DIA. SUPPLY AIR DUCT DOWN TO FIRST FLOOR. SEE 1/M-3.1 FOR CONTINUATION.
- ⑦ EXISTING ROOF-TOP EXHAUST FAN CONNECTED TO DUCTWORK TO NEW EXHAUST GRILLES IN BATHROOMS. SEE DETAIL 1/M2.0 FOR CONTINUATION.
- ⑧ NEW VERTICAL AIR HANDLING UNIT. SEE DETAIL 2/M-4.
- ⑨ NEW OUTDOOR HEAT PUMP UNIT MOUNTED ON ROOF. UNIT SHALL BE 6'-0" MIN FROM EDGE OF ROOF.
- ⑩ ALL RETURN AIR DUCT SHALL HAVE INTERNAL DUCT INSULATION.
- ⑪ BOTTOM OF RETURN AIR GRILLE SHALL BE 5'-0" ABOVE MEZZANINE FLOOR.
- ⑫ HIGH SIDE WALL MOUNTED RETURN AIR GRILLE.
- ⑬ RETURN AIR DUCT SHALL HAVE TURNS AS INDICATED FOR SOUND TRAP. RUN DUCT OVERHEAD AS IN MEZZANINE LOFT AREA.
- ⑭ RUN NEW SUPPLY AIR DUCTS ABOVE CEILING THROUGH ROOF JOIST.
- ⑮ CONNECT ROUND DUCTS TO DIFFUSERS TO TOP OF RECTANGULAR TRUNK DUCT.
- ⑯ ALL SUPPLY AIR DUCT WORK SHALL HAVE INTERNAL DUCT LINER INSULATION.
- ⑰ RUN SUPPLY DUCT TRUNK AS HIGH AS POSSIBLE. COORDINATE LOCATION WITH ALL STAGE LIGHTING, CURTAINS, EQUIPMENT, ETC.
- ⑱ NEW DUCTLESS SPLIT SYSTEM OUTDOOR HEAT PUMP UNIT MOUNTED ON ROOF. UNIT SERVES (2) INDOOR FAN-COIL UNITS.
- ⑲ NEW WALL MOUNTED DUCTLESS SPLIT SYSTEM INDOOR FAN COIL UNIT. MOUNT WITH TOP AT 12" BELOW CEILING. COORDINATE FINAL LOCATION WITH OWNER.
- ⑳ RUN PUMPED CONDENSATE TO ROOF.
- ㉑ RUN PIPING ABOVE THE CEILING.
- ㉒ BALANCE EXISTING SUPPLY AIR DIFFUSER TO INDICATED AIR FLOW.

HVAC NOTES:
EXISTING HVAC SYSTEMS SHALL REMAIN "AS-IS" UNLESS OTHERWISE INDICATED OR NOTED.
SEE PREVIOUS HVAC RENOVATION DRAWINGS DATED 2/26/19 FOR PREVIOUSLY PERMITTED WORK. VERIFY IF INSTALLED OR NOT. IF NOT, PROVIDE FOR A COMPLETE OPERATING PROJECT. (TYPICAL)

① NEW MEZZANINE FLOOR PLAN
SCALE: 3/16" = 1'-0"

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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:
1. Heating, ventilation, and air conditioning equipment.
 2. Ductwork.
 3. Grilles and diffusers.
 4. Controls and control wiring.
 5. Condensate piping.
- 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. ASHRAE Guide.
 2. National Electric Code.
 3. 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 DRAWINGS

- 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. All equipment and accessories.
 2. Grilles and diffusers.
 3. Unit sizes and requirements.

PART 2 – PRODUCTS

2.1 EQUIPMENT

- A. All air handling devices must have the manufacturer's recommended filter rack, for 1" thick filters.

2.2 PIPING

- A. Condensate drain piping shall be PVC pipe. Provide tee and plug at changes in direction. Route pipe to proper termination point. All condensate piping shall be insulated with flexible elastomeric insulation. Provide copper piping in plenum areas.

2.3 DUCTWORK

- 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 all 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.
- 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 airflow. 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 if required for occupancy comfort.

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 reinforced foil tape or equal.
- F. Exhaust air ducts shall be insulated per "E" above.
- G. Insulation shall be held in place with adhesive and welding pins 16" on center.
- H. Duct dimensions shown on the drawings are Net Inside Dimensions

2.5 THERMOSTATS

- A. Provide programmable electronic thermostats.
- B. Submit proposed thermostats for approval.

2.6 ROOF PENETRATIONS

- 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.

2.7 DUCT SMOKE DETECTORS

- A. Install duct mounted smoke detector in new roof top unit RTU-4 only. The duct smoke detector shall be supplied and wired by the mechanical Contractor. Provide access doors and wire to unit for unit shut-down. Install per code. Provide monitoring module for connection to existing fire alarm system.
- B. Duct detector is not required for new RTU-5 since unit air flows IS 2000 cfm or less per NCSBC: Mechanical Code, Section 606.2.
- C. Duct detectors are existing in RTU-1, RTU-2, and RTU-3.

PART 3 – EXECUTION

3.1 PIPING

- A. The HVAC Contractor shall coordinate such routing with others, to line his work true to adjacent spaces and in a workmanlike manner and to use only short radius 90 degree elbows. Where required, piping to be sturdily supported and separated in a manner satisfactory to the Engineer.
- B. The HVAC Contractor shall paint all exterior refrigerant piping, with UV resistant paint as recommended by the closed cell insulation manufacturer.
- C. Insulate all condensate lines for their entire length with 1/2" closed cell insulation. Install insulation per the manufacturers recommendations.

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.

- D. Furnish certification for acceptance of control wiring from local electrical inspector prior to acceptance.

3.3 CLEAN UP

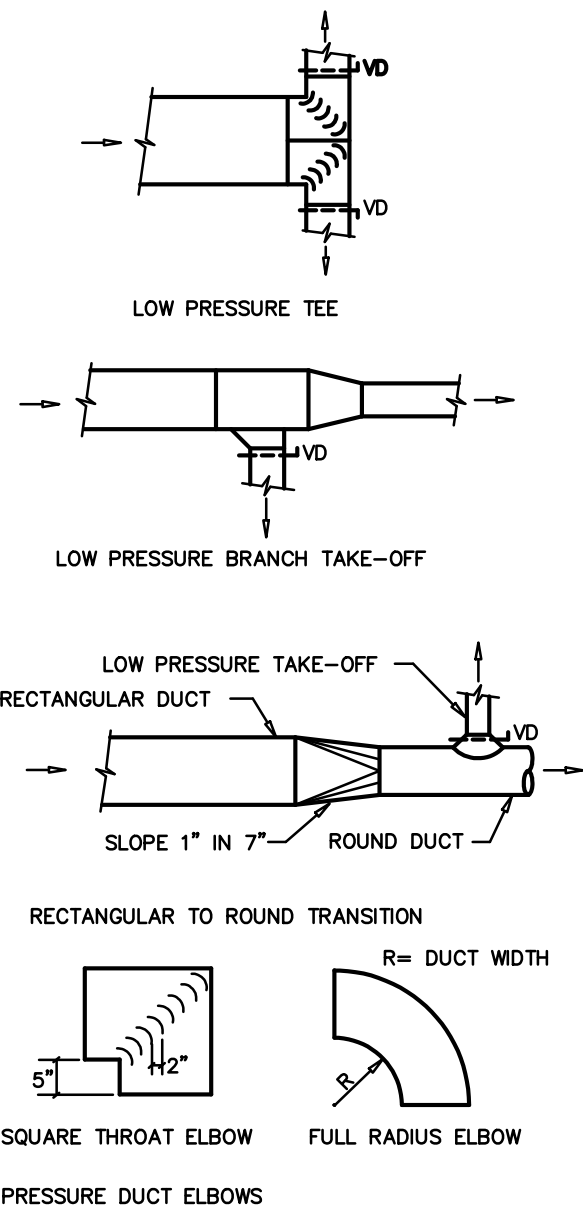
- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.
- B. Furnish one box of clean filters, for each size required, at the time of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

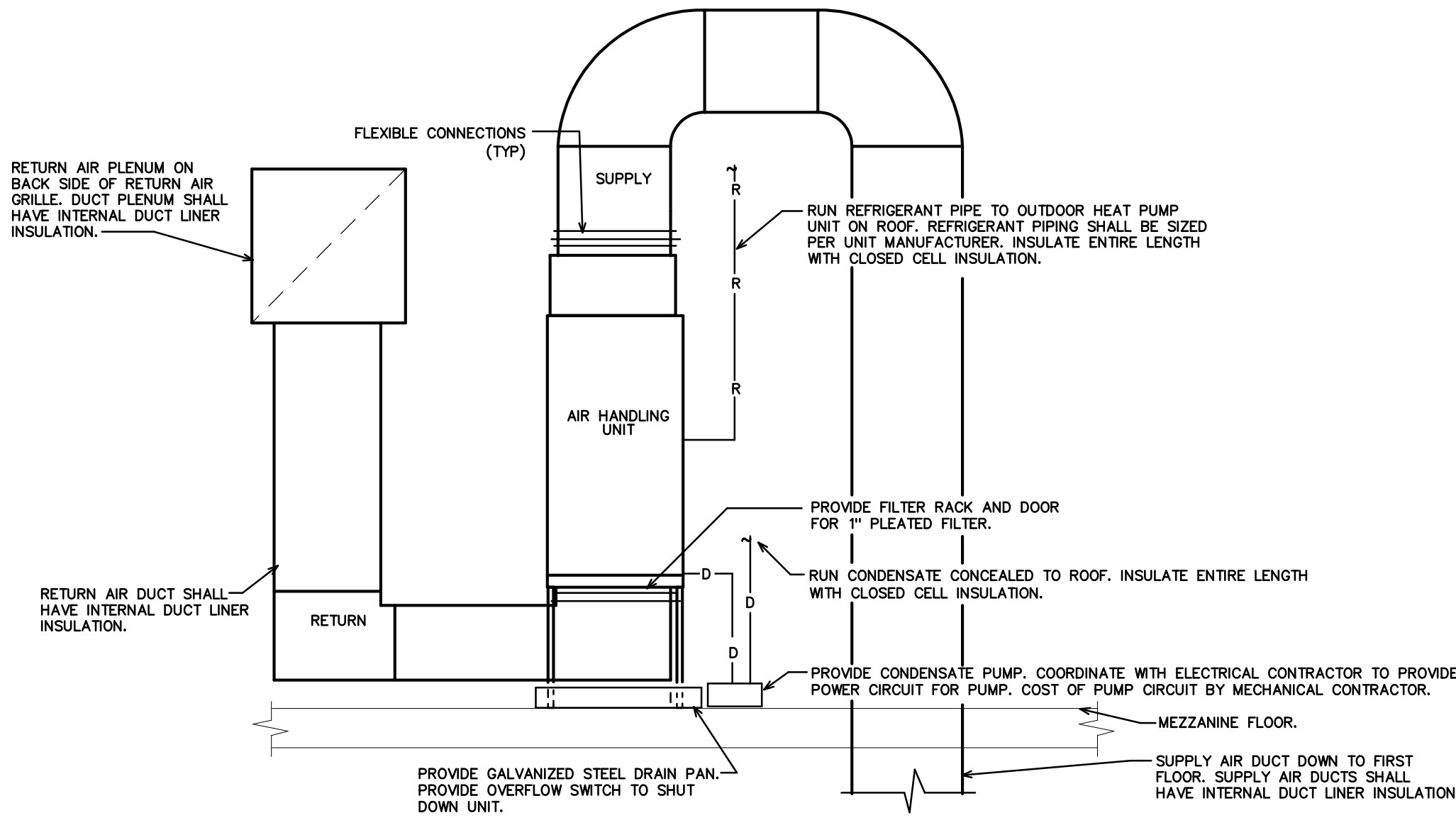
3.5 GUARANTEE

- 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 airflow. 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 if required for occupancy comfort.



2 DUCT CONSTRUCTION DETAILS

SCALE: NOT TO SCALE



2 VERTICAL AIR HANDLING UNIT DETAIL

SCALE: NOT TO SCALE

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. Electrical service and service equipment.
 2. Lighting and power distribution system.
 3. Provide lighting fixtures selected by owner with lamps to match.
 4. Wiring devices, boxes, cover plates, etc.
 5. Source of power for all items of equipment.
 6. Grounding.
 7. 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 operation.

- 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 2020 National Electrical Code.
 2. The National Electrical Safety Code.
 3. Underwriter's Laboratories, Inc., Standards and approved listings.
 4. Electrical Testing Laboratories standards.
 5. North Carolina Building Code, Latest Edition and Revisions.
 6. All local codes and ordinances.

- D. The Electrical 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. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work.

- F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 INTENT

- 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 operations.
- 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 UL label 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 NOT USED

2.3 CONDUCTORS

- A. Conductors shall be color coded, sizes #8 and larger may be color taped on the job. Color coding shall be: Standard Practice.
- B. Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and IPCEA and shall be UL approved.
- C. Metallic sheathed "MC" cable may be used where allowed by N.E.C.
- D. Conductors shall be spliced and taped as follows:
1. Size #10 and #12, use ideal "Wing Nuts" or T&B "Piggy" connectors. Conductors 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.
- E. All branch wire and connections shall be copper and sized per National Electric Code.
- F. All conductors shall be continuous without splice between junction, outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.
- G. All wiring in mechanical spaces shall be plenum rated.
- H. Provide GFI protection within 6'-0" of any sink.
- I. All multi-wire branch circuits shall comply with 2020 NEC, 210.4(B).
- J. All wiring at medical facilities shall comply with 2020 NEC, 517.1.

2.4 PANELBOARDS, SAFETY SWITCHES

- A. Panelboards shall comply with NEMA Standard PB 1 – Latest Edition and as manufactured by Square D or ITE-Siemens.
- B. The contractor shall be responsible for correctly phasing the circuits in the panelboards.
- C. Safety switches shall be general duty type, size and rating as required for load 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.

2.5 NOT USED

2.6 WIRING DEVICES

- A. Wiring devices shall be commercial grade by Bryant, Leviton, 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 NOT USED

2.8 CONDUIT

- A. PVC conduit will be allowed where N.E.C. approved.
- B. All service conduit shall be rigid where exposed below 8'-0" AFF or exposed to the elements or hazardous conditions.

PART 3 – EXECUTION

3.1 CIRCUIT GROUNDING

- A. All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250-95 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 conduit.

3.4 NOT USED

3.5 EQUIPMENT LABELING

- A. Provide permanent 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.
- 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.

3.6 NOT USED

3.7 NOT USED

3.8 JUNCTION AND/OR PULL BOXES

- A. Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.

3.9 PULL WIRE

- A. Leave pull wire in each empty conduit run.

3.10 NOT USED

3.11 GROUNDING

- 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.

3.12 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK

- A. PLUMBING WORK: The Electrical Contractor shall furnish and install switches and devices as shown and electrically connect electric water heaters, etc. All other electrical work required will be performed by the PLUMBING CONTRACTOR.
- B. HEATING AND AIR CONDITIONING WORK: The Electrical Contractor shall provide all disconnect switches, starters, and associated hardware for the equipment furnished including all line and load side wiring and conduit. Final connections to the equipment will be by the HVAC contractor. All control wiring will be accomplished by the HVAC contractor. Coordinate all work associated with the HVAC contractor.

3.13 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.

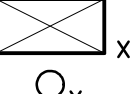
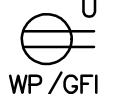
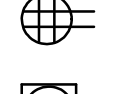
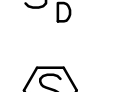
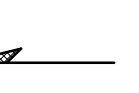
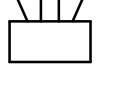
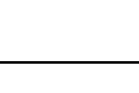
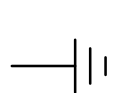
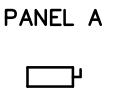
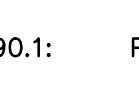
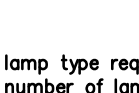
3.14 GUARANTEE

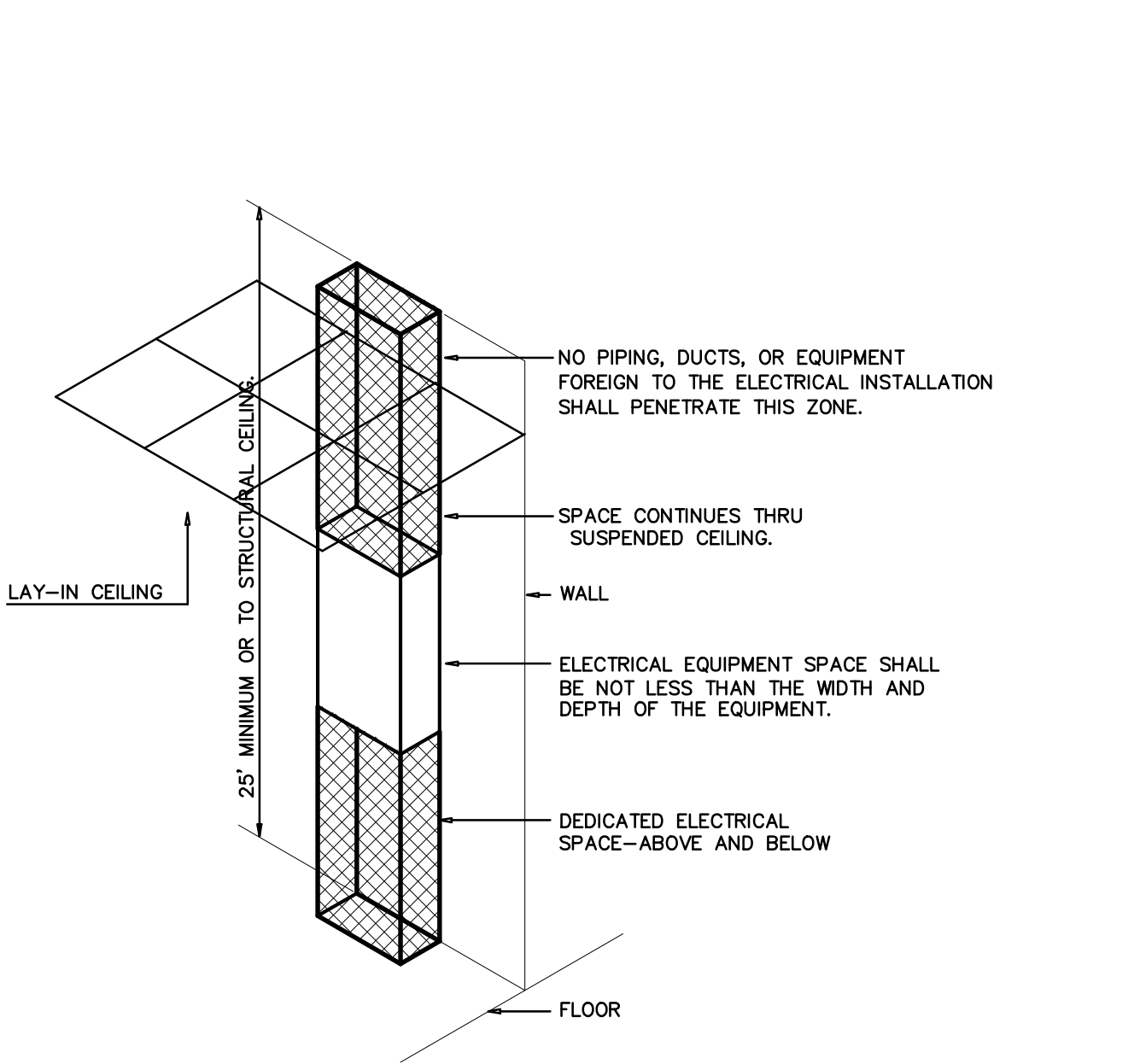
- A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.

GENERAL NOTES

- 1 ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- 2 ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTORS AND CONDUIT PER NEC.)
- 3 ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.
- 4 ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
- 5 CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- 6 ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.
- 7 THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- 8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.
- 9 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.
- 10 ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
- 11 IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.
- 12 PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.
- 13 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURES RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.
- 14 THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE OUTLETS.

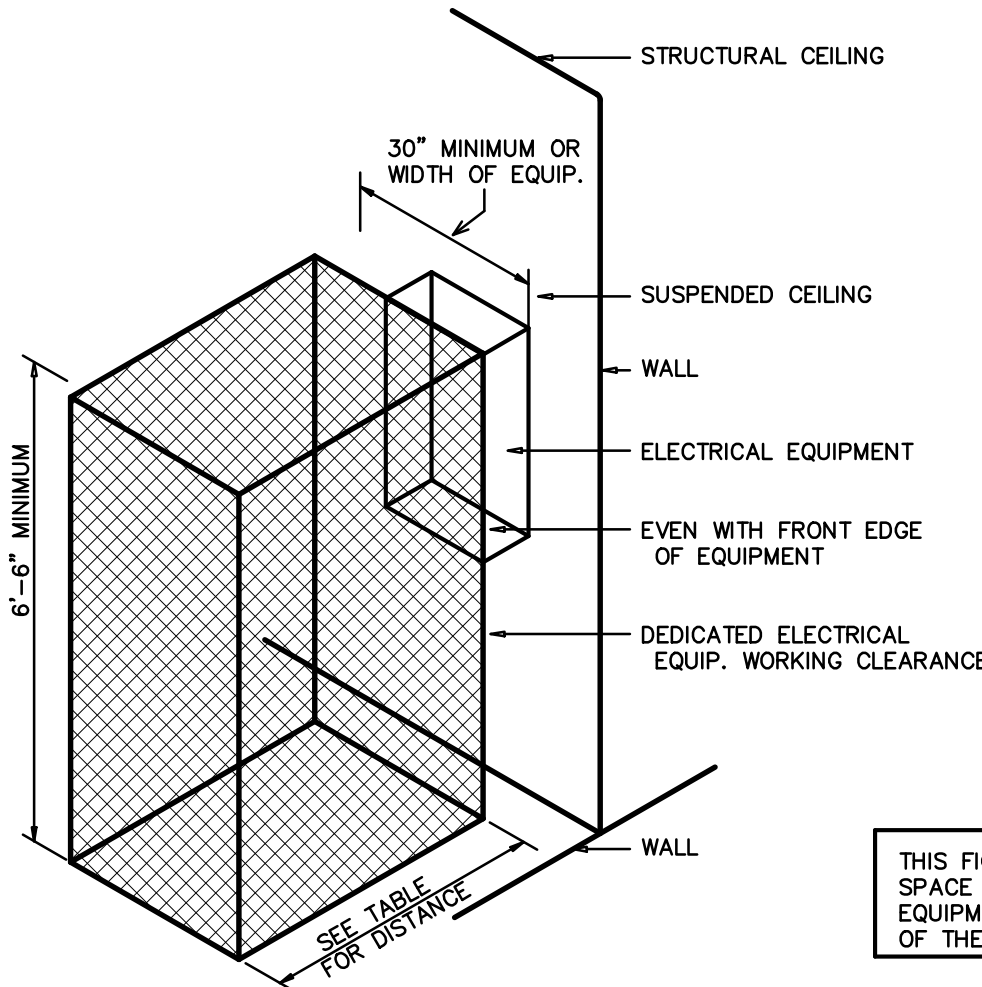
ELECTRICAL LEGEND

-  X LIGHT FIXTURE: LETTER DENOTES FIXTURE TYPE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE). NL = NIGHT LIGHT (NOT SWITCHED/ALWAYS ON)
-  U WP/GFI DUPLEX RECEPTACLE – 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; 'WP' INDICATES WEATHER PROOF, 'GFI' INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED. 'U' INDICATES RECEPTACLE WITH (2) USB PORTS.
-  QUADRUPLEX RECEPTACLE – 120V
-  FLOOR OR CEILING OUTLET (AS NOTED) – 120V
-  SPECIAL PURPOSE RECEPTACLE – REFER TO POWER PLAN AND PANEL SCHEDULE
-  LIGHT SWITCH
-  SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.
-  DIMMABLE LIGHT SWITCH
-  MOTOR RATED SWITCH
-  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
-  TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD
-  EXIT LIGHT
-  EMERGENCY EGRESS FIXTURE
-  PHOTOCELL (LED COMPLIANT)
-  BRANCH CIRCUIT WIRING
-  SWITCH LEG
-  GROUND CONNECTION
-  DISTRIBUTION PANELBOARD
-  DISCONNECTING MEANS AS REQUIRED BY CODE



ELECTRICAL EQUIPMENT DEDICATED SPACE
PER ARTICLE 110.26.F.1 OF N.E.C.

1 DEDICATED SPACE
SCALE: NTS



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

WORKING CLEARANCES			
VOLTAGE TO GROUND NOMINAL	MIN. CLEAR DISTANCE IN FEET		
	CONDITION: 1	2	3
0-150	3	3	3
151-600	3	3-1/2	4

2 ELECTRICAL CLEARANCES
SCALE: NTS

APPENDIX B
2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)
ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance

- Energy Code: Prescriptive ☒ Energy Cost Budget ☐
- ASHRAE 90.1: Prescriptive ☒ Energy Cost Budget ☐

Lighting Schedule

- lamp type required in fixture
number of lamps in fixture
ballast type used in fixture
number of ballasts in fixture
total wattage in fixture
total interior wattage specified vs. allowed
total exterior wattage specified vs. allowed
- See Light Fixture Schedule
- 6808VA / 11705VA
842VA / 1110VA

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 Heater
☒ 506.2.5 On-Site Supply of Renewable Energy
☒ 506.2.6 automatic Daylighting Control System

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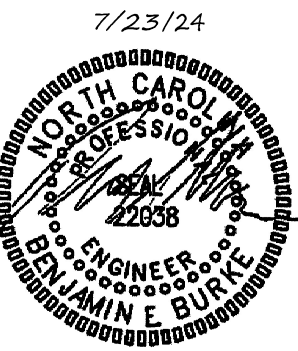
Lee D. Dixon, Jr., AIA

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Morehead City, NC
28557

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CARTERET COMMUNITY
THEATRE REPAIRS
MOREHEAD CITY, NORTH CAROLINA



ELECTRICAL
SPECIFICATIONS

24034

ISSUED: 7/23/24

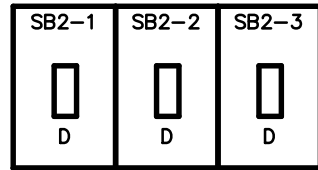
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REVISIONS

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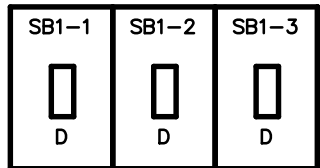
E1



SB2-1 AUDITORIUM, HOUSE
SB2-2 AUDITORIUM, LED TAPE LIGHT
SB2-3 STAGE, LED TAPE LIGHT

LABEL ALL SWITCHES AS TO FUNCTION
NOTE: SWITCHES MAY BE STACKED
(D) DENOTES OPTIONAL DIMMING CAPABILITY

3
E2.1 SWITCHBANK (SB2)
SCALE: NTS



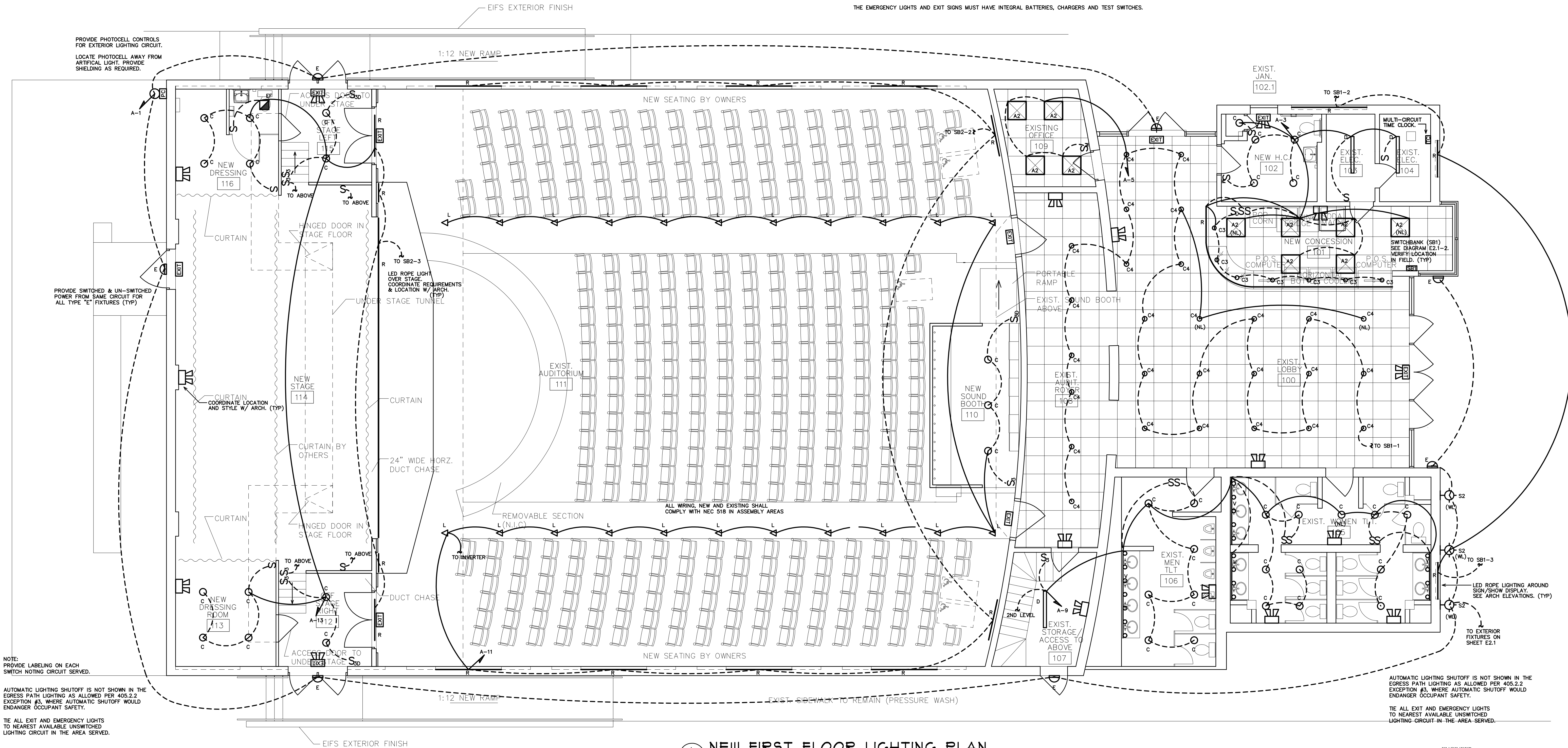
SBI-1 RECESSED, ENTRY/LOBBY
SBI-2 LED TAPE LIGHT, SHOW DISPLAY
SBI-3 LED TAPE LIGHT, MEZZ WINDOWS

LABEL ALL SWITCHES AS TO FUNCTION
NOTE: SWITCHES MAY BE STACKED
(D) DENOTES OPTIONAL DIMMING CAPABILITY

2
E2.1 SWITCHBANK (SBI)
SCALE: NTS

LIGHTING SCHEDULE *									
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO. TYPE	BALLAST TYPE	W/ FIXTURE	REMARKS		
A2	COLUMBIA	SRP22-35ML-G-EDU	120	- LED -	-	30	LED 2X2 LAY-IN FIXTURE, FOOD GRADE LENS		*
C	PRESCOUTE	LTR-6RD-H-ML20L-DM1-LTR-6RD-T-ML35K8MD	120	- LED -	-	23	LED 6" RECESSED CAN LIGHT, WET LOCATION (EXT)		*
C2	PRESCOUTE	LBRP-M-L5-SL-CS9-WD-LBRP-8RD-T-D	120	- LED -	-	19	LED 8" RECESSED CAN LIGHT, WET LOCATION (EXT)		*
C3	ASPECT	AL-RL-D-2-U-120	120	- LED -	-	3	LED 2" RECESSED LIGHT, COLOR/FINISH BY ARCH		*
C4	PRESCOUTE	LTR-6RD-H-ML20L-DM1-LTR-6RD-T-ML35K8MD	120	- LED -	-	23	LED 6" RECESSED CAN LIGHT		*
D	COLUMBIA	MPS4-35HL-CW-EDU	120	- LED -	-	42	4' LED STRIP LIGHT, SURFACE-MOUNT		*
D2	COLUMBIA	MPSB-35HL-CW-EDU	120	- LED -	-	84	8' LED STRIP LIGHT, SURFACE-MOUNT		*
E	COMPASS	CUSO	120	- LED -	-	17	EMERGENCY EGRESS FIXTURE - DUAL MODE, NORMAL AND EMERGENCY OPERATION		*
F	EXO	SG1-20-3K7-FT-UNV-DBT	120	- LED -	-	21	EXTERIOR LED WALL PACK, COLOR/FINISH BY ARCH		*
H	HOUSE	(CHOSEN BY ARCH; PROVIDED BY EC)	120	- LED -	-	50	DIMMABLE LED HOUSE LIGHTING (THEATER), \$400/EACH ALLOWANCE		*
L	AISLE	(CHOSEN BY ARCH; PROVIDED BY EC)	120	- LED -	-	10	LED AISLE LIGHTING (THEATRE), \$250/EACH ALLOWANCE		*
R	JESCO	DL-AC-FLEX2-LNDB-RGBW	120	- LED -	-	4.3W/FT	FLEXIBLE LINEAR LED ROPE LIGHTING, PROVIDE DIMMABLE CONTROLLER, COLOR BY ARCH		*
S	SCONCE	(CHOSEN BY ARCH; PROVIDED BY EC)	120	- LED -	-	30	LED DECORATIVE SCONCE LIGHT, \$350/EACH ALLOWANCE		*
S2	SCONCE	(CHOSEN BY ARCH; PROVIDED BY EC)	120	- LED -	-	30	LED GOOSENECK (RLM) SCONCE LIGHT, WET LOCATION (EXT), \$500/EACH ALLOWANCE		*
V	VANITY	(CHOSEN BY ARCH; PROVIDED BY EC)	120	- LED -	-	60	LED VANITY LIGHT (RESTROOM), \$500/EACH ALLOWANCE		*
EXIT	EXITRONIX	S900U-WB-SR-R-AG-G2	120	- LED -	-	-	EXIT LIGHT, COLOR/FINISH BY ARCH		*
EXIT	EXITRONIX	S900C-R-R-AG-G2	120	- LED -	-	-	COMBINATION EMERGENCY/EXIT LIGHT, COLOR/FINISH BY ARCH		*
EXIT	COMPASS	CU2HLHO	120	- LED -	-	-	EMERGENCY LIGHT, COLOR/FINISH BY ARCH		*

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES.
CATALOG NUMBERS ARE FOR REFERENCE ONLY; ACTUAL NUMBERS MAY VARY.
"EF" DENOTES ELECTRONIC BALLAST. "ED" DENOTES ELECTRONIC DIMMING BALLAST.
THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.



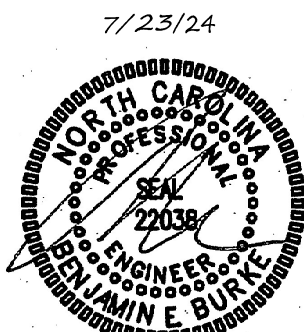
1
E2.0 NEW FIRST FLOOR LIGHTING PLAN
SCALE: 3/16" = 1'-0"

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CARTERET COMMUNITY
THEATRE REPAIRS
MOREHEAD CITY, NORTH CAROLINA



NEW FIRST FLOOR
LIGHTING PLAN

24034

ISSUED: 7/23/24
DWG BY: SWB
CKD BY: BEB

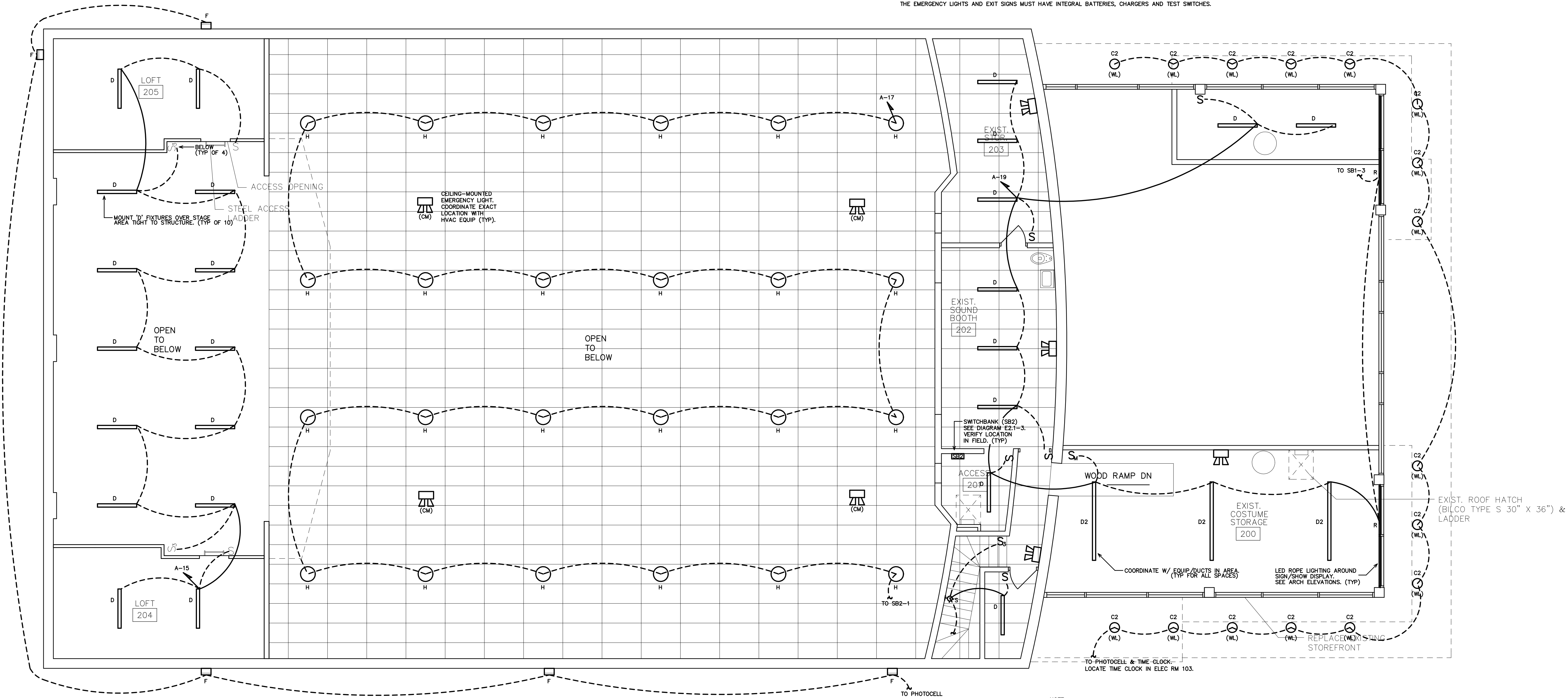
REVISIONS

SHEET NO.
E2.0

Carteret Theatre - Redesign E2.1

LIGHTING SCHEDULE *										
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO. TYPE	W	BALLAST TYPE	W/ FIXTURE	REMARKS		
A2	COLUMBIA	SRP22-35ML-G-EDU	120	-	LED	-	-	30	LED 2X2 LAY-IN FIXTURE, FOOD GRADE LENS	*
C	PRESCOLITE	LTR-6RD-H-ML20L-DW1-LTR-6RD-T-ML35K8MD	120	-	LED	-	-	23	LED 6" RECESSED CAN LIGHT, WET LOCATION (EXT)	*
C2	PRESCOLITE	LBPR-M-LS-SL-CS9-WD-LBRP-6RD-T-D	120	-	LED	-	-	19	LED 8" RECESSED CAN LIGHT, WET LOCATION (EXT)	*
C3	ASPECT	AL-RL-D-2-U-120	120	-	LED	-	-	3	LED 2" RECESSED LIGHT, COLOR/FINISH BY ARCH	*
C4	PRESCOLITE	LTR-6RD-H-ML20L-DW1-LTR-6RD-T-ML35K8MD	120	-	LED	-	-	23	LED 6" RECESSED CAN LIGHT	*
D	COLUMBIA	MPS4-35HL-CW-EDU	120	-	LED	-	-	42	4" LED STRIP LIGHT, SURFACE-MOUNT	*
D2	COLUMBIA	MPS8-35HL-CW-EDU	120	-	LED	-	-	84	8" LED STRIP LIGHT, SURFACE-MOUNT	*
E	COMPASS	CUS0	120	-	LED	-	-	17	EMERGENCY EGRESS FIXTURE - DUAL MODE, NORMAL AND EMERGENCY OPERATION	*
F	EXO	SG1-20-3K7-FI-UNV-DBT	120	-	LED	-	-	21	EXTERIOR LED WALL PACK, COLOR/FINISH BY ARCH	*
H	HOUSE	(CHOSEN BY ARCH; PROVIDED BY EC)	120	-	LED	-	-	50	DIMMABLE LED HOUSE LIGHTING (THEATER), \$400/EACH ALLOWANCE	*
L	aisle	(CHOSEN BY ARCH; PROVIDED BY EC)	120	-	LED	-	-	10	LED AISLE LIGHTING (THEATRE), \$250/EACH ALLOWANCE	*
R	JESCO	DL-AC-FLEX2-LNDB-RGBW	120	-	LED	-	-	4.3W/FT	FLEXIBLE LINEAR LED ROPE LIGHTING, PROVIDE DIMMABLE CONTROLLER, COLOR BY ARCH	*
S	SCONCE	(CHOSEN BY ARCH; PROVIDED BY EC)	120	-	LED	-	-	30	LED DECORATIVE SCONCE LIGHT, \$350/EACH ALLOWANCE	*
S2	SCONCE	(CHOSEN BY ARCH; PROVIDED BY EC)	120	-	LED	-	-	30	LED GOOSENECK (RLM) SCONCE LIGHT, WET LOCATION (EXT), \$500/EACH ALLOWANCE	*
V	VANITY	(CHOSEN BY ARCH; PROVIDED BY EC)	120	-	LED	-	-	60	LED VANITY LIGHT (RESTROOM), \$500/EACH ALLOWANCE	*
EXIT	EXITRONIX	S900U-WB-SR-R-AG-G2	120	-	LED	-	-	-	EXIT LIGHT, COLOR/FINISH BY ARCH	*
EXIT	EXITRONIX	S900C-R-R-AG-G2	120	-	LED	-	-	-	COMBINATION EMERGENCY/EXIT LIGHT, COLOR/FINISH BY ARCH	*
EXIT	COMPASS	OU2HLHO	120	-	LED	-	-	-	EMERGENCY LIGHT, COLOR/FINISH BY ARCH	*

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES.
CATALOG NUMBERS ARE FOR REFERENCE ONLY. ACTUAL NUMBERS MAY VARY.
'EB' DENOTES ELECTRONIC BALLAST. 'EDB' DENOTES ELECTRONIC DIMMING BALLAST.
THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.



NEW MEZZANINE LIGHTING PLAN
SCALE: 3/16" = 1'-0"

NOTE:
PROVIDE LABELING ON EACH
SWITCH NOTING CIRCUIT SERVED.

AUTOMATIC LIGHTING SHUTOFF IS NOT SHOWN IN THE
EGRESS PATH LIGHTING AS ALLOWED PER 405.2.2
EXCEPTION #3, WHERE AUTOMATIC SHUTOFF WOULD
ENDANGER OCCUPANT SAFETY.

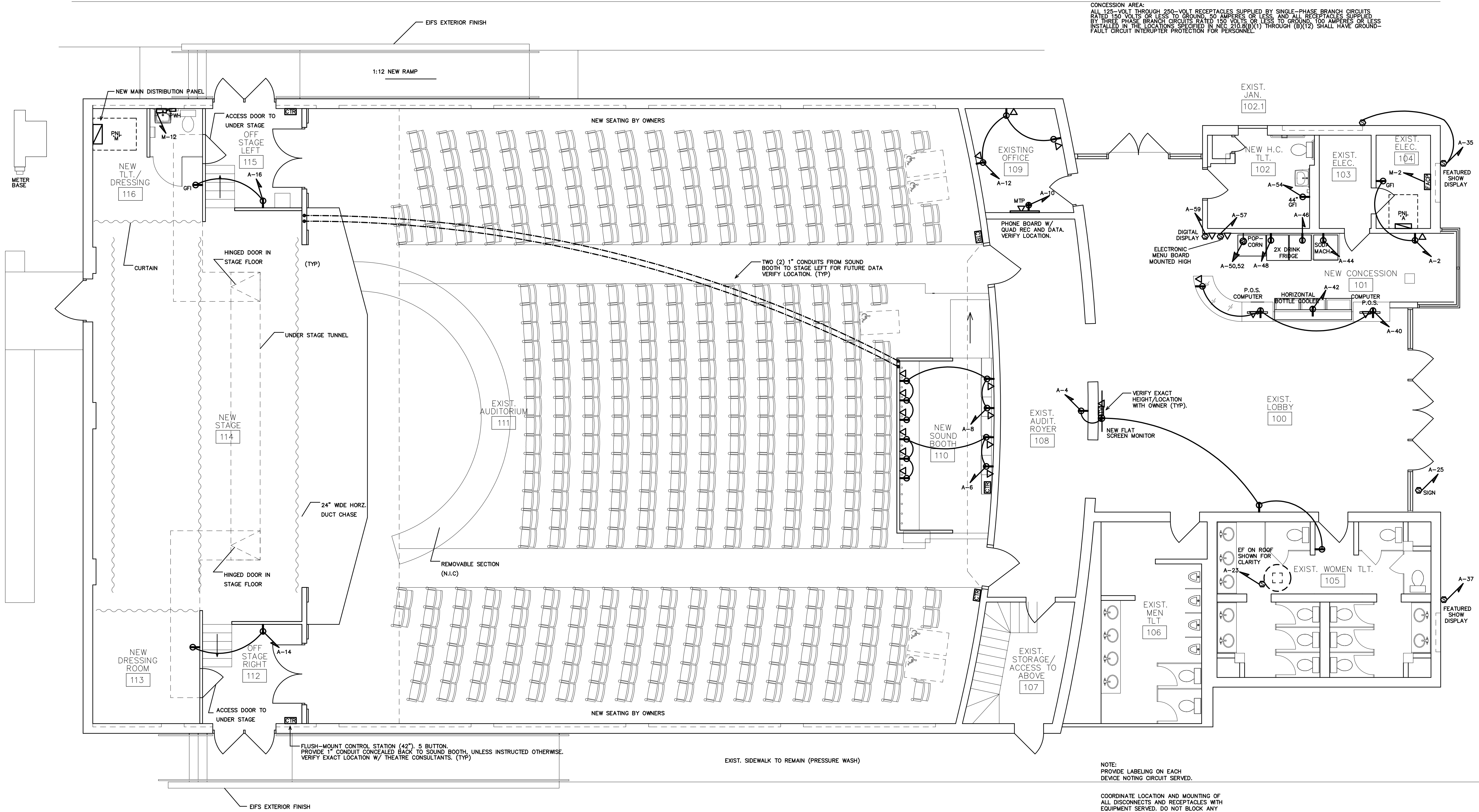
TIE ALL EXIT AND EMERGENCY LIGHTS
TO NEAREST AVAILABLE UNSWITCHED
LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES
AND DEVICES PRIOR TO INSTALLATION.

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Carteret Theatre — Redesign E3.0 EQUIPMENT SCHEDULE (VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)									
ITEM	QUAN	DESCRIPTION	ELECTRICAL CHARACTERISTICS						
			FLA	MCA	MCCP	WATTS	HP	VOLTS	PH
1	1	ONE COMPARTMENT SINK	—	—	—	—	—	—	—
2	1	POPCORN MACHINE	—	—	30A	—	—	208	1
3	—	NOT USED	—	—	—	—	—	—	—
4	1	3 COMPARTMENT BEER COOLER	8.7	—	20A	—	1/2	120	1
5	1	ICE AND BEVERAGE DISPENSER	2.8	—	20A	—	—	120	1
6	1	GLASS DOOR REFRIGERATOR	5.4	—	20A	—	1/3	120	1
7	1	POS COMPUTER SYSTEM	—	—	20A	—	—	120	1
8	1	WORK TABLE	—	—	—	—	—	—	—
9	1	TABLE MOUNTED OVERSHELF	—	—	—	—	—	—	—
10	1	WALL MOUNTED PRE-RINSE	—	—	—	—	—	—	—



1 NEW FIRST FLOOR PLAN
E3.0 SCALE: 3/16" = 1'-0"

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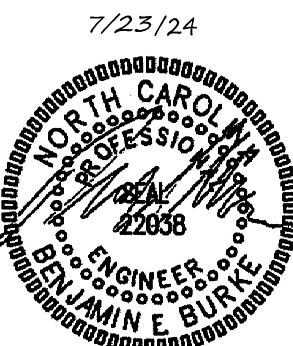
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- Planning
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CARTERET COMMUNITY
THEATRE REPAIRS
MOREHEAD CITY, NORTH CAROLINA



NEW FIRST FLOOR
POWER PLAN

24034

ISSUED: 7/23/24

DWG BY: SWB

CKD BY: BEB

REVISIONS

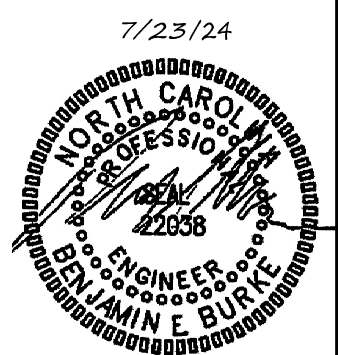
SHEET NO.
E3.0



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**CARTERET COMMUNITY
THEATRE REPAIRS**
MOREHEAD CITY, NORTH CAROLINA

NEW MEZZ
POWER PLAN

24034

ISSUED: 7/23/24

DWG BY: SWB

CKD BY:	BEB
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REVISIONS

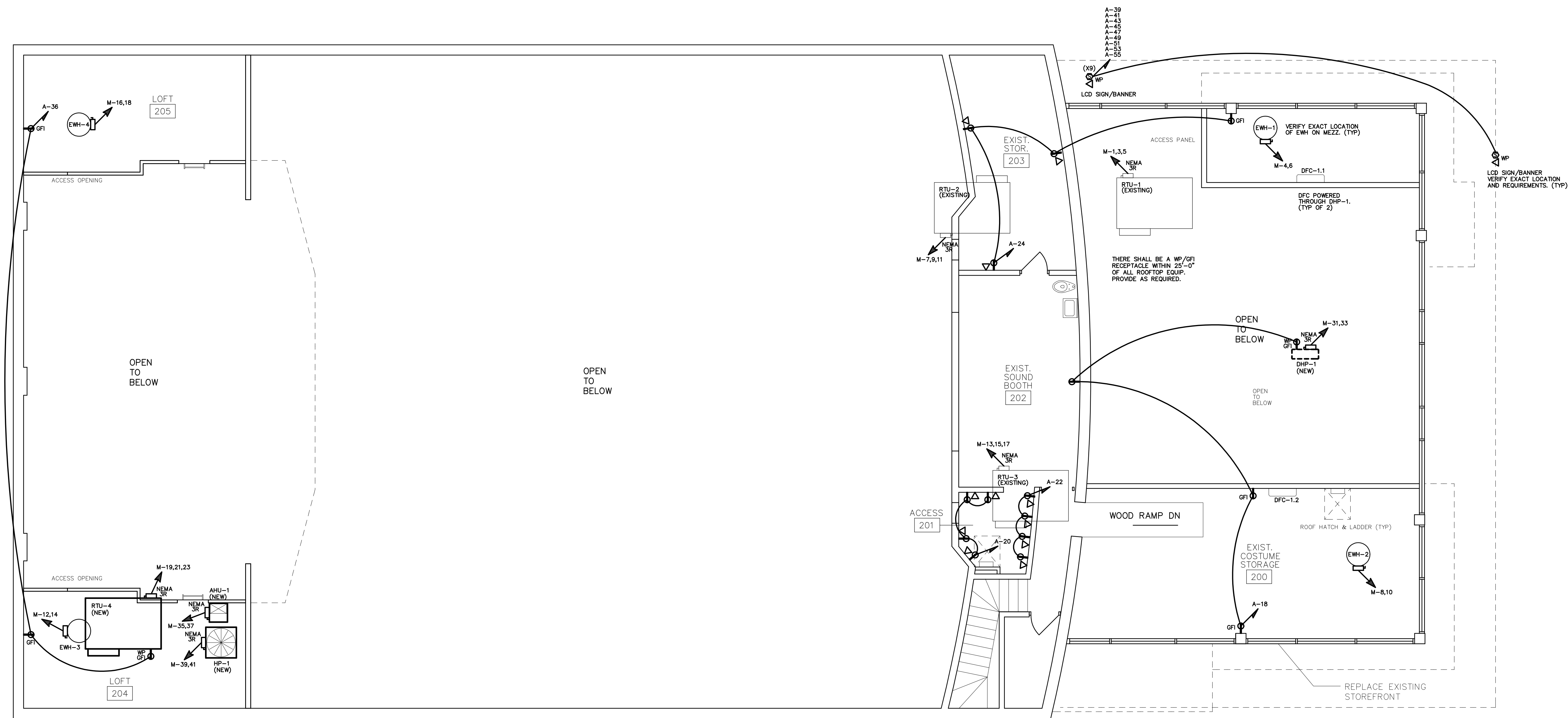
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F-31



NOTE:
PROVIDE LABELING ON EACH
DEVICE NOTING CIRCUIT SERVED.

COORDINATE LOCATION AND MOUNTING OF ALL DISCONNECTS AND RECEPTACLES WITH EQUIPMENT SERVED. DO NOT BLOCK ANY ACCESS PANELS OR NAMEPLATE DATA. PROVIDE SEPARATE SUPPORTS IF REQUIRED.

VERIFY HEIGHT/LOCATION OF ALL
DEVICES PRIOR TO INSTALLATION.

MEZZANINE POWER PLAN
SCALE: 3/16" = 1'-0"

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HVAC NOTES:
EXISTING HVAC SYSTEMS SHALL REMAIN "AS-IS" UNLESS OTHERWISE INDICATED OR NOTED.

SEE PREVIOUS HVAC RENOVATION DRAWINGS DATED 2/26/19 FOR PREVIOUSLY PERMITTED WORK. VERIFY IF INSTALLED OR NOT. IF NOT, PROVIDE FOR A COMPLETE OPERATING PROJECT. (TYPICAL)

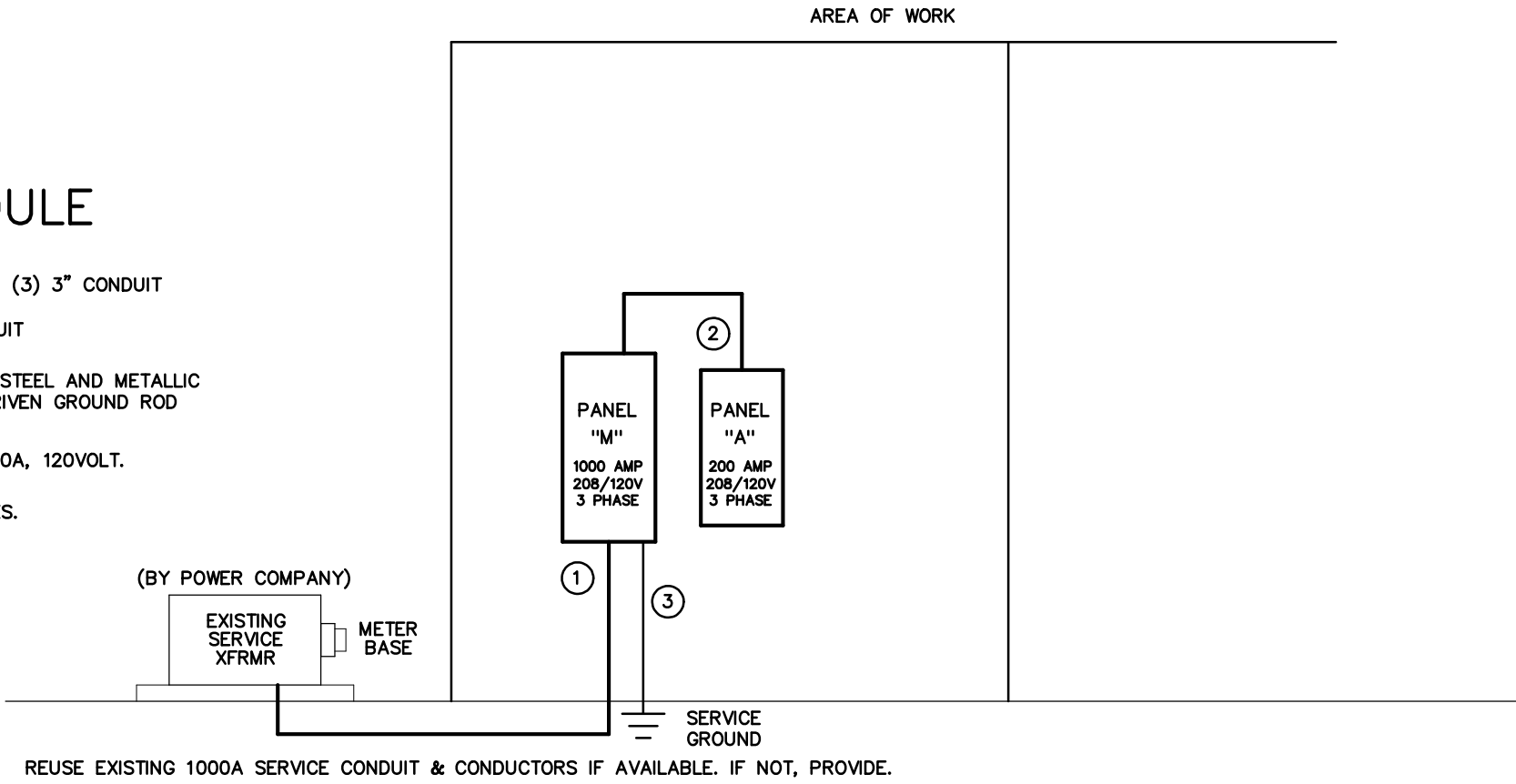
Carteret Theatre — Redesign E4					
EQUIPMENT WIRING SCHEDULE					
EQUIPMENT	MCA	MOCP	VOLTS	PH	WIRE SIZE
RTU-1 (EXIST)	—	80A	208V	3	3-#4, 1-#8 GND IN 1 1/4" CONDUIT
RTU-2 (EXIST)	—	100A	208V	3	3-#3, 1-#8 GND IN 1 1/4" CONDUIT
RTU-3 (EXIST)	—	100A	208V	3	3-#3, 1-#8 GND IN 1 1/4" CONDUIT
RTU-4	136.0A	150A	208V	3	3-#1/0, 1-#8 GND, IN 1 1/2" CONDUIT
EWB-1,2	(4.5KW)	30A	208V	1	2-#10, 1-#10 GND IN 3/4" CONDUIT
PWH	(3.5KW)	40A	208V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
AHU-1	44.7A	45A	208V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
HP-1	22.1A	35A	208V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
DHP-1	15.0A	20A	208V	1	2-#12, 1-#12 GND IN 1/2" CONDUIT

NOTE:
THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.

RISER WIRING SCHEDULE

- 1000A: (3 SETS) 4-#400MCM, 1-#3 CU GND, IN (3) 3" CONDUIT
- 200A: 4-#3/0, 1-#6 CU GND, IN 2 1/2" CONDUIT
- #3/0 CU GND TO BUILDING STEEL, FOUNDATION STEEL AND METALLIC WATER MAIN AND #6 CU GND TO 10' X 5/8" DRIVEN GROUND ROD

NOTE:
UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT.
PROVIDE 2-#12, 1-#12 CU GND IN 1/2" CONDUIT.
SEE EQUIPMENT SCHEDULES FOR ADDITIONAL WIRE SIZES.



REUSE EXISTING 1000A SERVICE CONDUIT & CONDUCTORS IF AVAILABLE. IF NOT, PROVIDE.

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING PRIOR TO RELEASING GEAR. AIC RATING ON PANELS ARE FOR PERMIT REVIEW AND PRICING ONLY. EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.

ELECTRICAL SERVICE RISER

SCALE: NTS

Carteret Theatre — Redesign E4		MAKE: EATON		RATING: 208/120V, 3 PHASE 4 WIRE		1000A MAIN CIRCUIT BREAKER			
NEW PANEL 'M'		TYPE: PBL4B		MOUNTING: SURFACE		EQUIPMENT GROUND BUS ☒ YES ☐ NO			
MAIN DISTRIBUTION PANEL				MINIMUM AIC: 22,000A		SERVICE ENTRY RATED ☐ YES ☒ NO			
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A B C	CKT BRKR	LOAD SERVICE	
RTU-1 (EXISTING)	80A	7776	1		2	300		20A	
								FACP (LOCKING BREAKER)	
		7776	3			2250		30A	
RTU-2 (EXISTING)	100A	8784	7		8	2250		30A	
		8784	9		10	2250		EWB-1	
								EWB-2	
RTU-3 (EXISTING)	100A							30A	
		8784	11		12		3500	40A	
		8784	13		14	----		PWH	
RTU-4	150A	8784	15		16	----		20A	
								SPARE	
		13140	17		18	----		20A	
SPARE	45A	13140	19		20	----		SPACE	
								SPACE	
								SPACE	
DHP-1	20A	1560	21		22			20A	
								PANEL 'A'	
								200A	
AHU-1	45A		25		26	12524		200A	
								200A	
								13502	
HP-1	35A		27		28			200A	
								FUTURE PANEL 'B1'	
								200A	
NOTES	SUB-TOTALS 'B'	43476 41906 43778			1000A	BUS	15074 15300 19252	SUB-TOTALS 'A'	
					1000A	LUGS	43476 41906 43778	SUB-TOTALS 'B'	
					1000A	FEED	58550 57206 63030	GRAND TOTAL	
					VERIFY	SIZE	488A 477A 526A	AMPS/PHASE	
NEC ALLOWABLE DEMAND FACTORS				DIVERSIFIED LOAD SUMMARY					
① DEMAND FACTORS PER NEC 220 ② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD ③ NEC TABLE 220.56 ④ NEC 220.51 ⑤ NEC 220.43A, 200 VA/LINEAR FT ⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED				LOAD TYPE					TOTAL DIVERSIFIED LOAD
				GENERAL LIGHTING					
				DEMAND FACTOR					
				A B C					
				2340 3863					
				125% 3560 2340 3863					
				2700 2340 3420					
				8460					
				150VA/6000					
				16425 16425 16425					
				16425 16425 16425					
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NEW PANEL 'A'		MAKE: EATON TYPE: PRL1g		RATING: 208/120V, 3 PHASE 4 WIRE MOUNTING: SURFACE MINIMUM AIC: 22,000A		1000A MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS ☒ YES ☐ NO SERVICE ENTRY RATED ☐ YES ☒ NO				
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A B C	CKT BRKR	LOAD SERVICE		
LTS: EXT	20A	842	1		2	720	20A	REC: 102,103		
LTS: 100-104	20A	516	3		4	900	20A	REC: 100,108		
LTS: 100, 108, 109	20A	741	5		6	900	20A	REC: 111		
SPARE	20A	----	7		8	900	20A	REC: 111		
LTS: 105-107	20A	768	9		10	360	20A	REC: MTP		
LTS: 110-111	20A	1149	11		12	540	20A	REC: 109		
LTS: 112-116	20A	838	13		14	360	20A	REC: 114,115		
LTS: 204, 205, 114	20A	588	15		16	360	20A	REC: 116,117		
LTS: 111	20A	1200	17		18	720	20A	REC: 200,204		
LTS: 200-203, MEZZ	20A	1008	19		20	720	20A	REC: 202		
SPARE	20A	----	21		22	720	20A	REC: 202		
BATHROOM EXHAUST FAN	20A	500	23		24	720	20A	REC: 201,205		
SIGN CIRCUIT	20A	1200	25		26	----	20A	SPARE		
SPARE	20A	----	27		28	----	20A	SPARE		
SPARE	20A	----	29		30	----	20A	SPARE		
SPARE	20A	----	31		32	----	20A	SPARE		
SPARE	20A	----	33		34	----	20A	SPARE		
SHOW DISPLAY	20A	800	35		36	540	20A	REC: 206,207		
SHOW DISPLAY	20A	800	37		38	----	20A	SPARE		
LCD SIGN/BANNER	20A	1000	39		40	540	20A	POS (7)		
LCD SIGN/BANNER	20A	1000	41		42	1044	20A	3-COMP BEER COOLER (4)		
LCD SIGN/BANNER	20A	1000	43		44	336	20A	ICE/BEV DISP. (5)		
LCD SIGN/BANNER	20A	1000	45		46	648	20A	GLASS DOOR REFRIG. (6)		
LCD SIGN/BANNER	20A	1000	47		48	648	20A	GLASS DOOR REFRIG. (6)		
LCD SIGN/BANNER	20A	1000	49		50	1800	20A	POPCORN MACH. (2)		
LCD SIGN/BANNER	20A	1000	51		52	1800	20A			
LCD SIGN/BANNER	20A	1000	53		54	----	20A	SPARE		
LCD SIGN/BANNER	20A	1000	55		56	----	20A	SPARE		
ELECTRONIC MENU BOARD	20A	600	57		58	----	20A			
DIGITAL DISPLAY (CONCESSIONS)	20A	1000	59		60	----	SPACE			
NOTES	SUB-TOTALS 'B'			200A BUS		4836	5328	5112	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
				200A LUGS		7688	5472	8390	SUB-TOTALS 'B'	
				200A FEED		12524	10800	13502	GRAND TOTAL	
				VERIFY: SIZE		105A	90A	113A	AMPS/PHASE	
NEC ALLOWABLE DEMAND FACTORS				DIVERSIFIED LOAD SUMMARY						
① DEMAND FACTORS PER NEC 220 ② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD ③ NEC TABLE 220.56 ④ NEC 220.51 ⑤ NEC 220.43A, 200 VA/LINEAR FT ⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED				LOAD TYPE		DEMAND FACTOR			TOTAL DIVERSIFIED LOAD	
				GENERAL LIGHTING		①	125%	3360		2340
				GENERAL USE RECEPTACLES		②	125%	2700	2340	3420
				MOTORS AND EQUIPMENT		③	125%	----	----	----
				WATER HEATERS		④	100%	----	----	----
				KITCHEN EQUIPMENT		⑤	65%	1389	1943	1100
				FIX. ELEC. SPACE HEAT.		⑥	100%	----	----	4432
				SHOW WINDOW LIGHTS		⑦	125%	----	----	----
				SIGN		⑧	125%	1500	----	1500
				MISC		⑨	100%	3800	3600	3300
				PHASE (TOTAL VA)		⑩	12749	10223	13683	36635
				TOTAL AMPS		⑪	107A	86A	115A	
				VOLT AMPS		⑫	VOLTS X 1.732 = 102A			TOTAL AMPS

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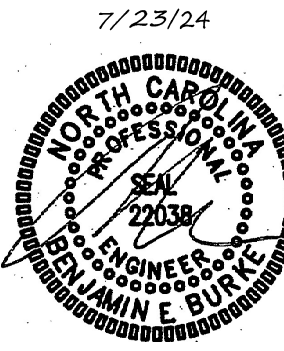


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PANELS AND
RISER

24034

ISSUED: 7/23/24
DWG BY: SWB
CKD BY: BEB
REVISIONS

SHEET NO.
E4

DIVISION 16 – FIRE ALARM

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:

- Fire alarm panel, wiring and devices

B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct operation.

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:

- The 2020 National Electrical Code.
- NFPA 72
- Underwriter's Laboratories, Inc., Standards and approved listings
- Electrical Testing Laboratories standards.
- North Carolina Building Code, Latest Edition and Revisions.
- All local codes and ordinances.

D. The Fire Alarm 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. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work.

F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 INTENT

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 Fire Alarm 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 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. Provide complete shop drawings per NCSCF section 907.1.2 to the local fire marshal prior to start of construction including:
- Floorplan with room names
 - Location of all FA devices
 - Location of panels
 - Power connections
 - Battery calculations
 - Conductors types and sizes
 - Voltages drop calculations
 - Equipment cut-sheets, model numbers, etc.

PART 2 – PRODUCTS AND MATERIALS

2.1 GENERAL

A. All material shall be new and shall bear the manufacturer's name, trade name, and UL label 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.

- Boxes installed in concealed locations shall be set flush with the finished surfaces.
- Provide rated boxes in all fire barriers & walls installed per code.

PART 3 – EXECUTION

3.1 FIRE ALARM SYSTEM EQUIPMENT

- A. Provide a complete operable fire alarm system as shown on the drawings and as required by State, and Local codes.
- B. The main control panel is existing. The unit is an addressable type. Verify spare capacity is available prior to bid. Expand as required.
- C. Provide a remote key test switch for the duct detectors. Locate as directed by the local AHJ.
- D. All fire alarm system cables shall be installed in conduit. Size as required by the equipment supplier. Provide a submittal of all devices and a riser diagram for approval before installation of any equipment.
- E. The return air smoke detectors will be furnished by the E.C. to the HVAC contractor for installation. The HVAC contr shall be responsible for the shut down of all AHU'S. The E.C. shall be responsible for all connections to the fire alarm controller.

3.2 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.

3.3 GUARANTEE

A. Guarantee all materials and labor included in the fire alarm 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.

SHELL BLDG FA SYSTEM

SYSTEM OUTPUTS

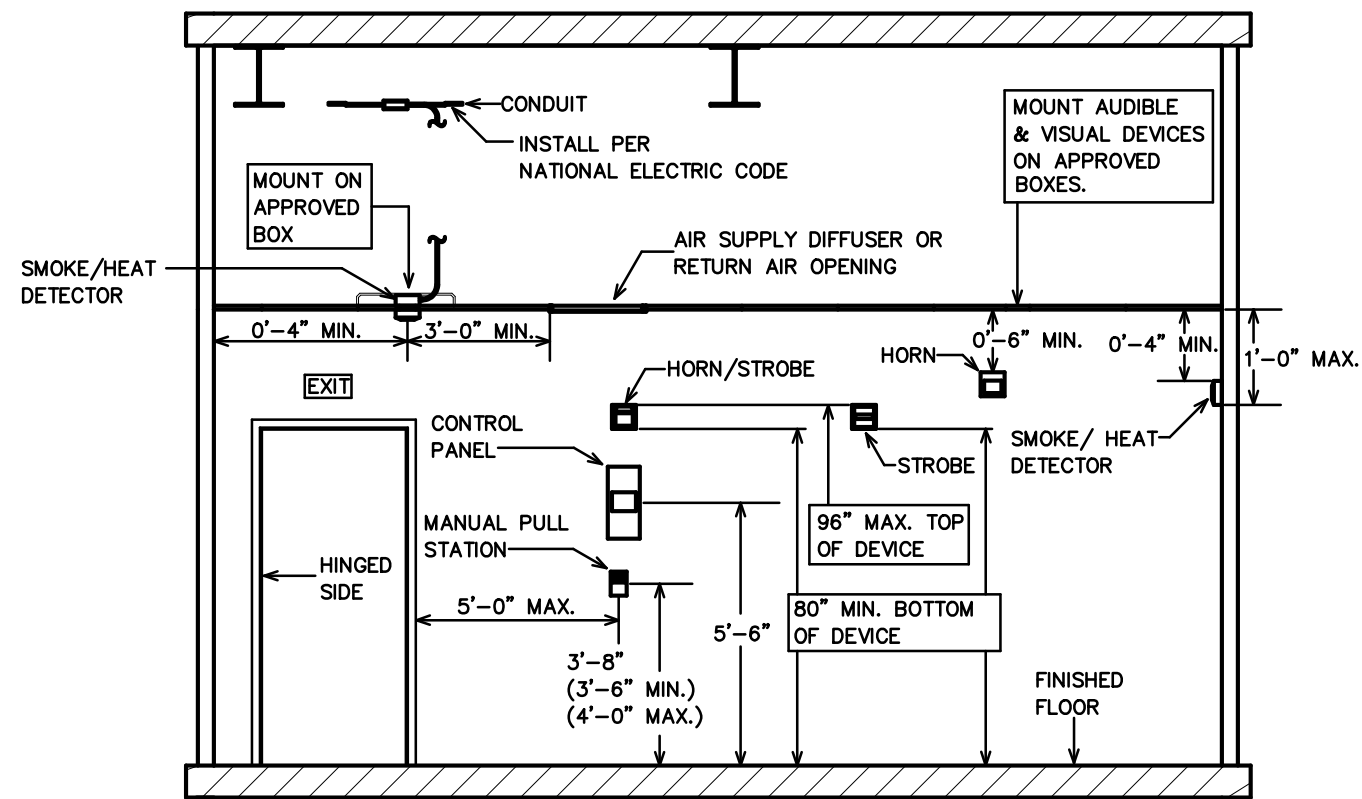
			CONTROL UNIT ANNUNCIATION															NOTIFICATION					REQUIRED FIRE SAFETY CONTROL					SUPPLEMENTAL								
SYSTEM INPUTS			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	
1	SMOKE DETECTORS		•	•					•		•	•	•						•										•	•					1	
2	IN-DUCT SMOKE DETECTORS				•	•																	•												2	
3	LINEAR BEAM SMOKE DETECTORS				•																															3
4																																				4
5	ELEVATOR (PRI) SMOKE/THERMAL DETECTORS		•	•								•	•	•							•														5	
6	ELEVATOR (ALT) SMOKE/THERMAL DETECTORS		•	•								•	•	•								•													6	
7	ELEVATOR MECH ROOM SMOKE/THERMAL DETECTORS		•	•								•	•	•									•												7	
8	ELEVATOR PITS SMOKE/THERMAL DETECTORS		•	•								•	•	•										•											8	
9	THERMAL DETECTORS																																			9
10																																				10
11																																				11
12	PULL STATIONS		•	•						•		•	•	•						•										•	•	•				12
13																																				13
14	LOOP OPEN/SHORT CIRCUIT							•	•					•																	•					14
15	LOOP GROUND FAULT							•	•					•																						15
16	LOOP FAILURE							•	•					•																	•					16
17																																				17
18	NAC OPEN/SHORT CIRCUIT							•	•				•																		•					18
19	NAC GROUND FAULT							•	•				•																		•					19
20	NAC FAILURE							•	•				•																		•					20
21	LOSS OF AC POWER							•	•				•																		•					21
22	LOSS OF AC POWER (>6 HR)							•	•				•																		•					22
23	BATTERY/CHARGER FAILURE							•	•				•																		•					23
24	LOW BATTERY							•	•				•																		•					24
25																																				25
26																																				26
27																																				27
28	KITCHEN HOOD FIRE SUPPRESSION SYSTEM		•	•					•		•	•	•							•										•	•	•				28
29																																				29
30																																				30
31	SPRINKLER WATER FLOW		•	•					•		•	•	•							•											•	•				31
32	SPRINKLER TAMPER SWITCHES				•	•									•																					32
33																																				33

FIRE ALARM LEGEND

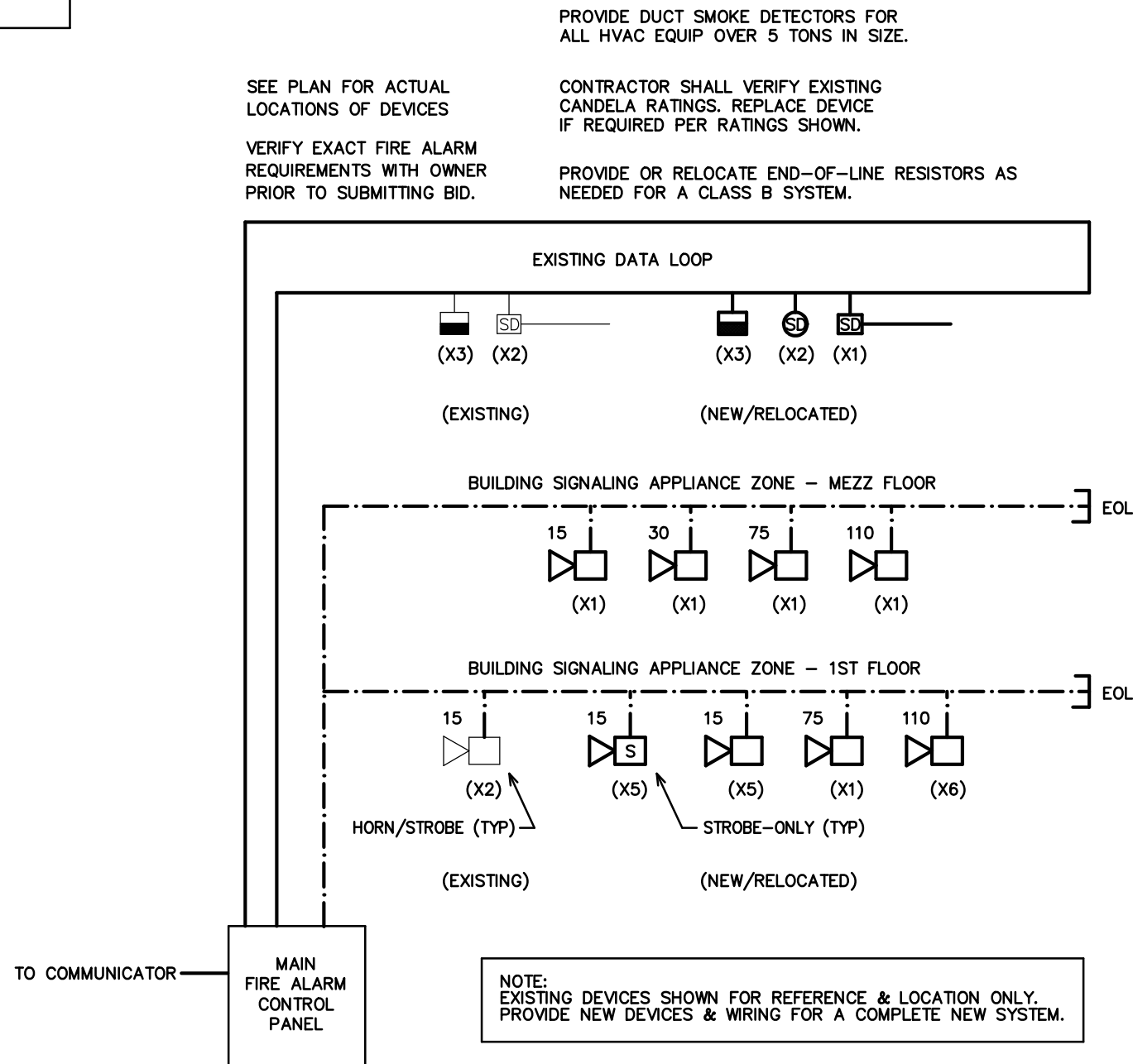
- HORN/STROBE SIGNALING DEVICE
 (XX) CANDELLA RATING; (S) INDICATES STROBE-ONLY
- PULL STATION
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- FIRE ALARM CONTROL PANEL
- REMOTE ANNUNCIATOR PANEL

*COLOR/FINISH OF ALL FA DEVICES CHOSEN BY ARCH

NOTE:
ANY EXISTING INFORMATION SHOWN ON THIS DRAWING IS FROM A FIELD INVESTIGATION AND PREVIOUS PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.



1 DEVICE MOUNTING DETAIL
SCALE: NTS



2 FIRE ALARM RISER
SCALE: NTS

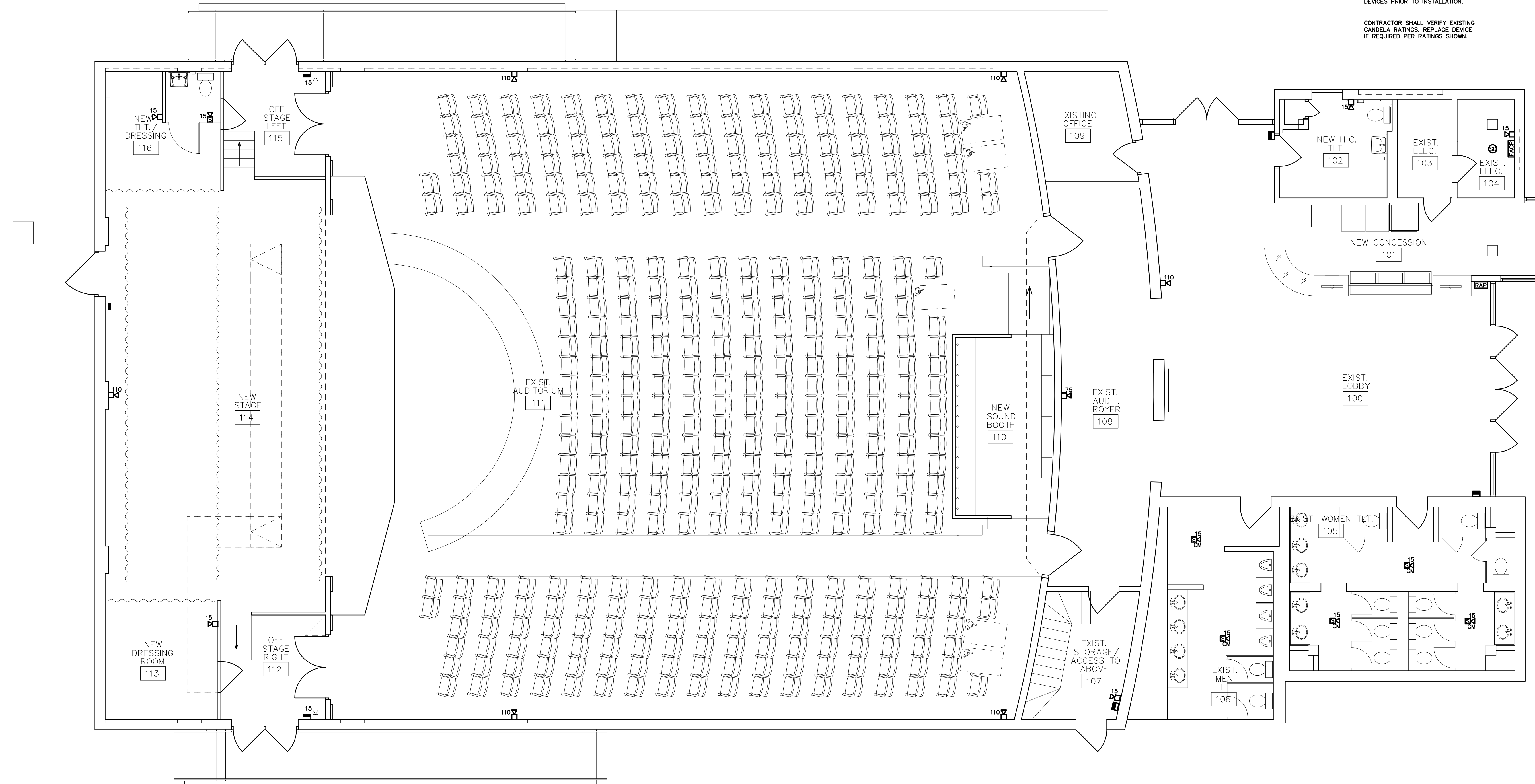
GENERAL FIRE ALARM NOTES:

- 1 HORN/SROBES MUST BE WITHIN 15'-0" OF THE END OF EACH CORRIDOR. PROVIDE STROBES IN ALL CORRIDORS, BATHROOMS, BREAK ROOMS AND STORAGE AREAS. INSTALL PER ADA.
- 2 CANDELA RATINGS SHOULD BE LABELED ON ALL STROBES.
- 3 ALL STROBES WITHIN SIGHT OF EACH OTHER MUST BE SYNCHRONIZED PER NFPA 72 UNLESS MAXIMUM REQUIRED SEPARATION IS OBTAINED.
- 4 THE MAIN FIRE ALARM PANEL IS LOCATED IN THE ELECTRICAL ROOM. VERIFY.
- 5 VERIFY THAT A SD IS ADJACENT TO THE FACP.
- 6 ALL EXPOSED WIRE SHALL BE IN CONDUIT. PLENUM RATED CABLE MAY BE USED WHERE CONCEALED IN ALL AREAS EXCEPT ASSEMBLY AREAS. ALL WIRING IN ASSEMBLY AREAS MUST BE IN CONDUIT.
- 7 ALL DEVICES, PANELS, ETC MUST BE BY SAME MANUFACTURER AND COMPATIBLE. PROVIDE ALL ITEMS REQUIRED FOR A COMPLETE SYSTEM MEETING ALL CODES.
- 8 ALL WORK MUST MEET NFPA 72 AND APPLICABLE LOCAL CODES AND ORDINANCES. COORDINATE THE INSTALLATION WITH THE LOCAL FIRE MARSHALL.
- 9 MOUNT WALL-MOUNT HORN STROBES SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.
- 10 MOUNT MANUAL PULL STATIONS SUCH THAT THE OPERABLE PART OF THE DEVICE IS NOT LESS THAN 42" AFF AND NOT MORE THAN 54" AFF.

NOTE:
VERIFY HEIGHT/LOCATION OF ALL
DEVICES PRIOR TO INSTALLATION.

CONTRACTOR SHALL VERIFY EXISTING
CANDELA RATINGS. REPLACE DEVICE
IF REQUIRED PER RATINGS SHOWN.

VERIFY A SMOKE DETECTOR
IS WITHIN 5'-0" OF "FACP".
PROVIDE AS REQUIRED.



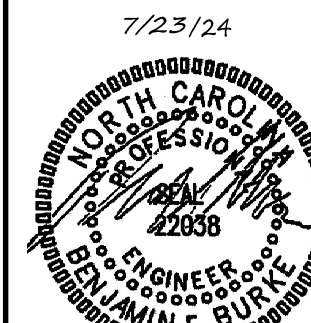
EXISTING DEVICE TO REMAIN

NEW/RELOCATED DEVICE

FA2.0 FIRE ALARM PLAN
SCALE: 3/16" = 1'-0"

ENGINEER
BURKE DESIGN GROUP
3305-109 DURHAM DRIVE
RALEIGH, NC 27603
PHONE: (919) 771-1916
FAX: (919) 779-0826
email: benburke@bnc.rr.com
Corp. License # C-2652

CARTERET COMMUNITY
THEATRE REPAIRS
MOREHEAD CITY, NORTH CAROLINA



FIRE ALARM PLAN

24034

ISSUED: 7/23/24

DWG BY: LS

CKD BY: BEB

REVISIONS

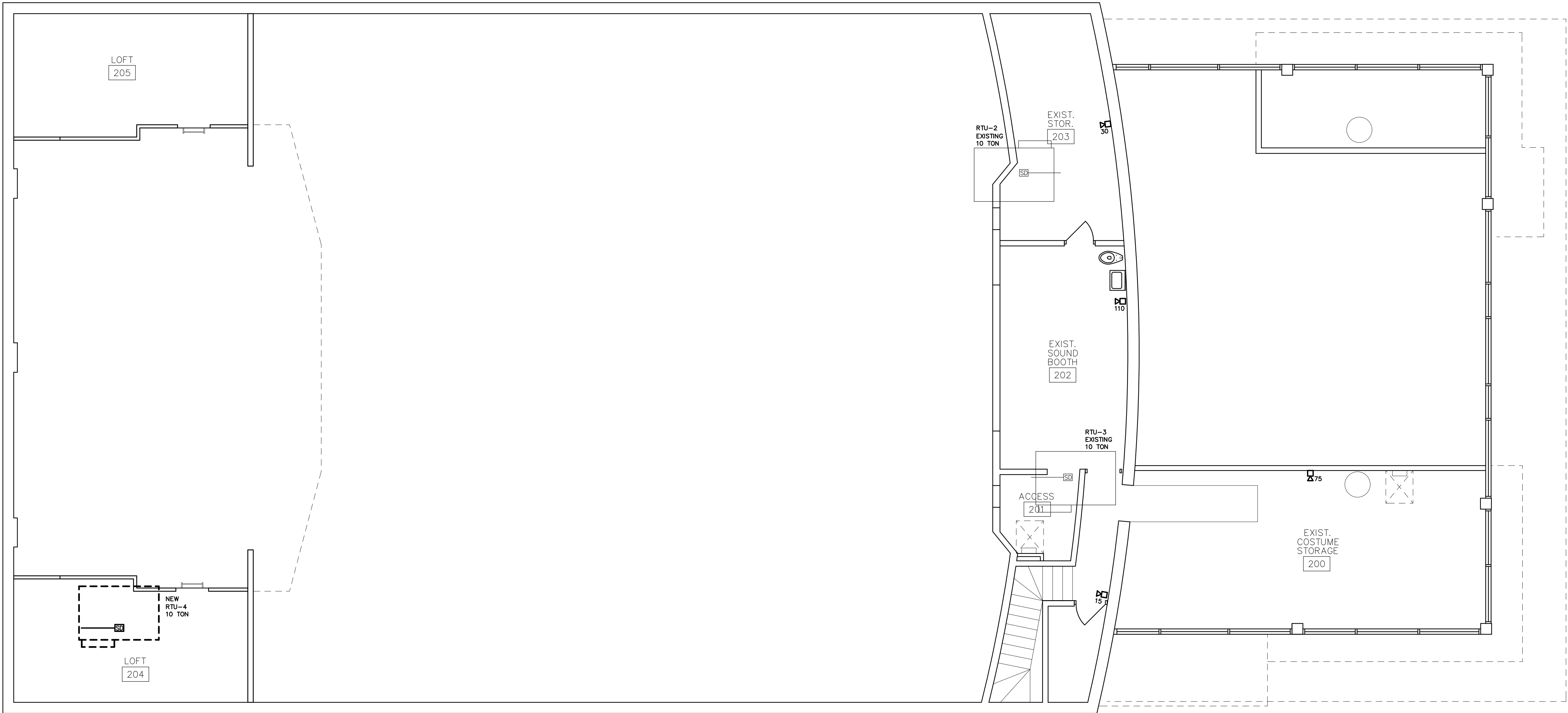
SHEET NO.

FA2.0

GENERAL FIRE ALARM NOTES:

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NOTE:
VERIFY HEIGHT/LOCATION OF ALL
DEVICES PRIOR TO INSTALLATION.



PROVIDE DUCT SMOKE DETECTORS FOR
ALL HVAC EQUIP OVER 5 TONS IN SIZE.

MEZZANINE FIRE ALARM PLAN
SCALE: 3/16" = 1'-0"

EXISTING DEVICE TO REMAIN

NEW/RELOCATED DEVICE

ENGINEER

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