PROJECT

FORDEN STATION - CUSTOMER SERVICE CENTER RENOVATIONS

505 CANDO STREET
WILMINGTON, NORTH CAROLINA 28405

OWNER

CAPE FEAR PUBLIC TRANSIT AUTHORITY

505 CANDO STREET
WILMINGTON, NORTH CAROLINA 28405

ARCHITECT

H R ASSOCIATES PA

ARCHITECTURE PLANNING INTERIOR DESIGN
2202 WRIGHTSVILLE AVENUE
SUITE 212
WILMINGTON, NORTH CAROLINA 28403
T. 910.343.6008

CONSULTANTS

CAPITAL ENGINEERING

MECHANICAL ENGINEER
4001 WILLOW OAK ROAD
RALEIGH, NORTH CAROLINA 27604
T. 919.250-3211

ANGUS CLARK ENGINEERING PC

ELECTRICAL ENGINEER
543 KEISLER DRIVE
SUITE 101
CARY, NORTH CAROLINA 27511
T. 919.859.2674

INDEX OF DRAWINGS

COVER
G1 BUILDING CODE SUMMARY

ARCHITECTURAL
A1 PARTIAL FLOOR PLAN - EXISTING, DEMOLITION & NEW CONSTRUCTION
A2 PARTIAL REFLECTED CEILING PLAN - EXISTING, DEMOLITION & NEW CONSTRUCTION
A3 CUSTOMER SERVICE ELEVATIONS & MILLWORK DETAILS

MECHANICAL
H1 PARTIAL HVAC REFLECTED CEILING PLAN

ELECTRICAL
E1 ELECTRICAL COVER SHEET
E2 ELECTRICAL PLANS

FINAL PERMIT/CONSTRUCTION SET
14 AUGUST 2024

PERMIT/CONSTRUCTION SET OWNER REVIEW
13 AUGUST 2024

PERMIT/CONSTRUCTION SET OWNER REVIEW
26 JULY 2024

CLIENT REVIEW
8 MAY 2024

H R ASSOCIATES PA CERT NO 125 NORTH CAROLINA WILMINGTON, N.C.

JOHN WILLIAM FARABOW JR REGISTERED ARCHITECT 3673 NORTH CAROLINA WILMINGTON, N.C.

14 August 2024

PROJECT NUMBER
186724.08

DRAWING TITLE/NUMBER

COVER

14 AUGUST 2024

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2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) 2018 (2018 NC Administrative Code and Policies)

Name of Project: FORDEN STATION - CUSTOMER SERVICE CENTER RENOVATIONS
Address: 505 CANDO STREET, WILMINGTON NC — Zip Code: 28405
Owner/Authorized Agent: JOHN W. FARABOW, JR. AIA — Phone* 910-343-6008 — E-Mail: farabow@hrassociates.com
Owned By: ☐ City ☒ County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☒ City WILMINGTON ☐ County - ☐ State -

CONTACT: JOHN W. FARABOW, JR. AIA

DESIGNER	FIRM	NAME	LICENSE*	TELEPHONE*	EMAIL
Architectural	H R ASSOCIATES PA	JOHN W. FARABOW JR AIA	3673	(910) 343-6008	farabow@hrassociates.com
Civil	N/A	-	-	-	-
Electrical	ANGUS CLARK ENGINEERING PC	ANGUS CLARK, PE	13119	(910) 859-2674	angus@angusclarkengineering.com
Fire Alarm	N/A	-	-	-	-
Plumbing	N/A	-	-	-	-
Mechanical	CAPITAL ENGINEERING	MARK C. (CHRIS) SIMES, PE	20742	(919) 454-9661	chris@capitaleng.com
Sprinkler-Standpipe	N/A	-	-	-	-
Structural	N/A	-	-	-	-
Retaining Walls 5' & High	-	-	-	-	-
Other (Landscaping)	-	-	-	-	-

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

2018 NC BUILDING CODE: ☐ New Building ☐ Addition ☒ Renovation ☐ Ist. Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements.
☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements.

2018 NC EXISTING BUILDING CODE: ☐ N/A ☐ Prescriptive ☐ Repair ☐ Chapter 14 ☐ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III ☐ Historic Property ☐ Change of Use

CONSTRUCTED: (DATE) 2010 — CURRENT OCCUPANCY(S) (Ch. 3): BUS TRANSFER STATION / BUSINESS OFFICES
RENOVATED: (DATE) N/A — PROPOSED OCCUPANCY(S) (Ch. 3): BUS TRANSFER STATION / BUSINESS OFFICES — NO CHANGE IN OCCUPANCY
RISK CATEGORY (TABLE 1604.5): CURRENT: ☐ N/A ☐ I ☒ II ☐ III ☐ IV
PROPOSED: ☐ N/A ☐ I ☒ II ☐ III ☐ IV

BASIC BUILDING DATA

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ I-B ☒ II-B ☐ III-B ☐ IV ☐ V-A ☐ V-B
Sprinklers: ☐ N/A ☐ Yes ☒ No ☐ Partial ☐ N/A ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☐ N/A ☒ No ☐ Class I-Wet ☐ Class I-Dry ☐ Class II-Wet ☐ Class II-Dry ☐ Class III-Wet ☐ Class III-Dry
Primary Fire District: ☐ Yes ☒ No Flood Hazard Area: ☐ Yes ☒ No
Special Inspections Required: ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements) ☒ No

Gross Building Area Table:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor	N/A	N/A	-
2nd Floor	N/A	N/A	-
Mezzanine	563 SF.	N/A	563 SF.
1st Floor	8889 SF.	263 SF. (EXISTING ALTERATION AREAS)	8,889 SF.
Basement	N/A	N/A	-

NO INCREASE IN AREA

TOTAL: 9,452 SF. (263 SF. EXISTING ALTERATION AREAS)

ALLOWABLE AREA

Primary Occupancy classification(s):
Assembly: ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5
Business: ☒
Educational: ☐
Factory: ☐ F-1 ☐ F-2
Hazardous: ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional: I-1 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 ☐ S-1 High-Piled ☐ S-2 ☐ S-2 High-Piled
☐ Parking Garage (Open) ☐ Parking Garage (Enclosed) ☐ Repair Garage
Utility and Miscellaneous: ☐

MIXED OCCUPANCY

Accessory Occupancy Classification(s): BUSINESS (B)

Incidental Uses (Table 509): N/A
☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input
☐ Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
☐ Refrigerant machinery room
☐ Hydrogen fuel gas rooms, not classified as Group H
☐ Incinerator rooms
☐ Paint shops, not classified as Group H, located in occupancies other than Group F
☐ In Group E occupancies, Laboratories and vocational shops, not classified as Group H.
☐ In Group I-2 occupancies, Laboratories not classified as Group H.
☐ In ambulatory care facilities, Laboratories not classified as Group H.
☐ Laundry rooms over 100 square feet
☐ In Group I-2, Laundry rooms over 100 square feet
☐ In Group I-2, Laundries equal to or less than 100 square feet
☐ Group I-2 commercial kitchens
☐ Group I-2 rooms or spaces that contain fuel-fired heating equipment
☐ Group I-3 cells and Group I-2 patient rooms equipped with padded surfaces
☐ Group I-2, physical plant maintenance shops
☐ In ambulatory care facilities or Group I-2 occupancies, waste and linen collection rooms with containers that have and aggregate volume of 10 cubic feet or greater
☐ In other than ambulatory care facilities and Group I-2 occupancies, waste and linen collection rooms over 100 square feet
☐ In ambulatory care facilities or Group I-2 occupancies, storage rooms greater than 100 square feet.
☐ Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons for flooded lead-acid, nickel cadmium or VRLA, or more than 1,000 pounds for lithium-ion and lithium metal polymer used for facility standby power, emergency power or uninterruptible power supplies.
☐ Fuel storage rooms in public schools and boiler rooms in public schools
☐ Storage rooms underneath grandstands or bleacher seats containing combustible or flammable materials.

Special Uses: (Chapter 4 List Code Sections)
☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412
☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423
☐ 424 ☐ 425 ☐ 426 ☐ 427 ☐ 428 ☐ 429 ☐ 430
N/A

Special Provisions: (Chapter 5 - List Code Sections)
☐ 5102 ☐ 5103 ☐ 5104 ☐ 5105 ☐ 5106 ☐ 5107 ☐ 5108 ☐ 5109
N/A

Mixed Occupancy: ☒ Yes ☐ No Separation: ☐ 1 ☒ 2 ☐ 3 ☐ 4 Exception: N/A

☐ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☒ 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.

EXISTING

Actual Area of Occupancy A / Allowable Area of Occupancy A + Actual Area of Occupancy B / Allowable Area of Occupancy B + ... ≤ 1
- / - + - / - + ... ≤ 100

STORY No.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[2]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[3]
1	BUS TRANSFER STATION ('A-3')/ BUSINESS (B)	8,889	-	-	-
.	.	.	.	.	.
.	.	.	.	.	.
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.	.	.	.	.	.

[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 = 42 (F)
b. Total Building Perimeter = 42 (P)
c. Ratio (F/P) = 1 (F/P)
d. W = Minimum width of public way = 30 (W)
e. Percent of frontage increase I, = 100 (F/P - 0.25) x W/30 = .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 areas 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.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	Feet -	Feet 20'	-
Building Height in Stories (Table 504.4)	Stories -	Stories 1	-

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with table 412.3.1
[3] The maximum height of open parking garages must comply with table 406.5.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D*	RATING PROVIDED (W/ --' REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural frame, including columns, girders, trusses	>30	0	0	-	-	-	-
Bearing walls							
Exterior							-
North	N/A	N/A	N/A	-	-	-	-
East	N/A	N/A	N/A	-	-	-	-
West	N/A	N/A	N/A	-	-	-	-
South	N/A	N/A	N/A	-	-	-	-
Interior	N/A	N/A	N/A	-	-	-	-
Non-bearing walls and partitions Exterior Walls							
North	>30	0	0	-	-	-	-
East	>30	0	0	-	-	-	-
West	>30	0	0	-	-	-	-
South	>30	0	0	-	-	-	-
Interior walls and partitions	N/A	0	0	-	-	-	-
Floor Construction including supporting beams and joists	N/A	0	0	-	-	-	-
Floor Ceiling Assembly	N/A	0	0	-	-	-	-
Columns Supporting Floors	N/A	N/A	N/A	-	-	-	-
Roof Construction including supporting beams and joists	N/A	0	0	-	-	-	-
Roof Ceiling Assembly (Corridor)	N/A	N/A	N/A	-	-	-	-
Columns Supporting Roof	N/A	N/A	N/A	-	-	-	-
Shaft Enclosures - Exit	N/A	N/A	N/A	-	-	-	-
Shaft Enclosures - Other (Elevator)	N/A	N/A	N/A	-	-	-	-
Shaft Enclosures - Other	N/A	N/A	N/A	-	-	-	-
Corridor Separation	N/A	N/A	N/A	-	-	-	-
Occupancy/Fire Barrier Separation	N/A	2-HR	2-HR	-	-	-	-
Party/Fire Wall Separation	N/A	N/A	N/A	-	-	-	-
Smoke Barrier Separation	N/A	N/A	N/A	-	-	-	-
Smoke Partition	N/A	N/A	N/A	-	-	-	-
Tenant/Dwelling Unit/ Sleeping Unit Separation	N/A	N/A	N/A	-	-	-	-
Incidental Use Separation	N/A	N/A	N/A	-	-	-	-

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

N/A

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
-	-	-	-
-	-	-	-

LIFE SAFETY SYSTEM REQUIREMENTS

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

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet: N/A

NO CHANGE IMPACTING LIFE SAFETY

☐ 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 (1006.2.1 & 1006.3.2(1))
☐ Dead end lengths (1020.4)
☐ Clear exit widths at 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 with 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)

N/A

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
-	-	-	-	-	-	-	-

ACCESSIBLE PARKING (SECTION 1106)

N/A

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED				TOTAL # ACCESSIBLE SPACES PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE		
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

N/A

USE		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS / TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
BUSINESS (B)	EXISTING	-	-	-	-	-	-	-	-	-	-
	NEW	-	-	-	-	-	-	-	-	-	-
	REQUIRED	-	-	-	-	-	-	-	-	-	-
-											

SPECIAL APPROVALS

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

N/A

-
-
-

ENERGY SUMMARY

N/A

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 vs. annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ Yes (The remainder of this section is not applicable) ☐ No ☒ N/A
Exempt Building: ☐ Yes ☐ No Provide code or statutory reference: -
Climate Zone: ☐ N/A ☐ 3A ☐ 4A ☐ 5A
Method of Compliance
☐ Prescriptive (Energy Code) ☐ Prescriptive (ASHRAE 90.1) ☐ Other (Performance)
☐ Performance (Energy Code) ☐ Performance (ASHRAE 90.1) (If "Other" specify source here) -

THERMAL ENVELOPE (Prescriptive method only)
Roof/Ceiling Assembly (each Assembly)
Description of assembly -
U-Value of total assembly -
R-Value of insulation -
Skylights in each assembly -
U-value of 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 -

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS: N/A
Importance Factors: Snow (Is) ☐ 0.80 ☐ 1.0 ☐ 1.1 ☐ 1.2
Seismic (Ie) ☐ 1.0 ☐ 1.25 ☐ 1.50
Live Loads: Roof - psf
Mezzanine - psf
Floor - psf
Ground Snow Load: - psf
Wind Load: Basic Wind Speed - mph (ASCE-7)
Exposure Category ☐ N/A ☐ B ☐ C ☐ D

SEISMIC DESIGN CATEGORY ☐ N/A ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ N/A ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration Ss - %g S1 - %g
Site Classification (ASCE 7) ☐ N/A ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ N/A ☐ Field Test ☐ Presumptive ☐ Historical Data
Basic Structural System (check one)
☐ N/A ☐ Moment Frame ☐ Inverted Pendulum
☐ Bearing Wall ☐ Dual w/ Special Moment Frame
☐ Building Frame ☐ Dual w/ Intermediate R/C or Special Steel
Analysis Procedure: ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ N/A ☐ Yes ☐ No
LATERAL DESIGN CONTROL: ☐ N/A ☐ Earthquake ☐ Wind
SOIL BEARING CAPACITIES:
☐ N/A
☐ Field Test (provide copy of test report) - psf
☐ Presumptive Bearing Capacity - psf
Pile size, type, and capacity -

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY N/A
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone
winter dry bulb: -
summer dry bulb: -
Interior design conditions
winter dry bulb: -
summer dry bulb: -
relative humidity: -
Building heating load: -
Building cooling load: -
Mechanical Spacing Conditioning System
Unitary
description of unit: -
heating efficiency: -
cooling efficiency: -
size category of unit: -
Boiler
size category. If oversized, state reason:
-
Chiller
size category. If oversized, state reason:
-
List equipment efficiencies: -

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY N/A
ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance
Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance
Lighting Schedule
lamp type required in fixture -
number of lamps in fixture -
ballast type in fixture -
number of ballasts in fixture -
total wattage per fixture -
total interior wattage specified vs. allowed:
(whole building or space by space) -
total exterior wattage specified vs. allowed -
Additional Efficiency Package Options (When using the 2018 NCECC - not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

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14 August 2024

FORDEN STATION - CUSTOMER SERVICE CENTER RENOVATIONS - 505 CANDO STREET, WILMINGTON, NORTH CAROLINA

PROJECT ARCHITECT
JOHN W. FARABOW, JR. AIA

PROJECT MANAGER
JOHN W. FARABOW, JR. AIA

CHECKED BY
JOHN W. FARABOW, JR. AIA

DRAWN BY
PAULA MILLER-JOYCE

ISSUE DATE

5/8/2024	CLIENT REVIEW
7/26/2024	PERMIT/CONSTRUCTION SET OWNER REVIEW
8/13/2024	PERMIT/CONSTRUCTION SET OWNER REVIEW
8/14/2024	FINAL PERMIT/ CONSTRUCTION SET

REVISIONS

PROJECT NUMBER
186724.08

DRAWING NUMBER
BUILDING CODE SUMMARY

G1

14 AUGUST 2024

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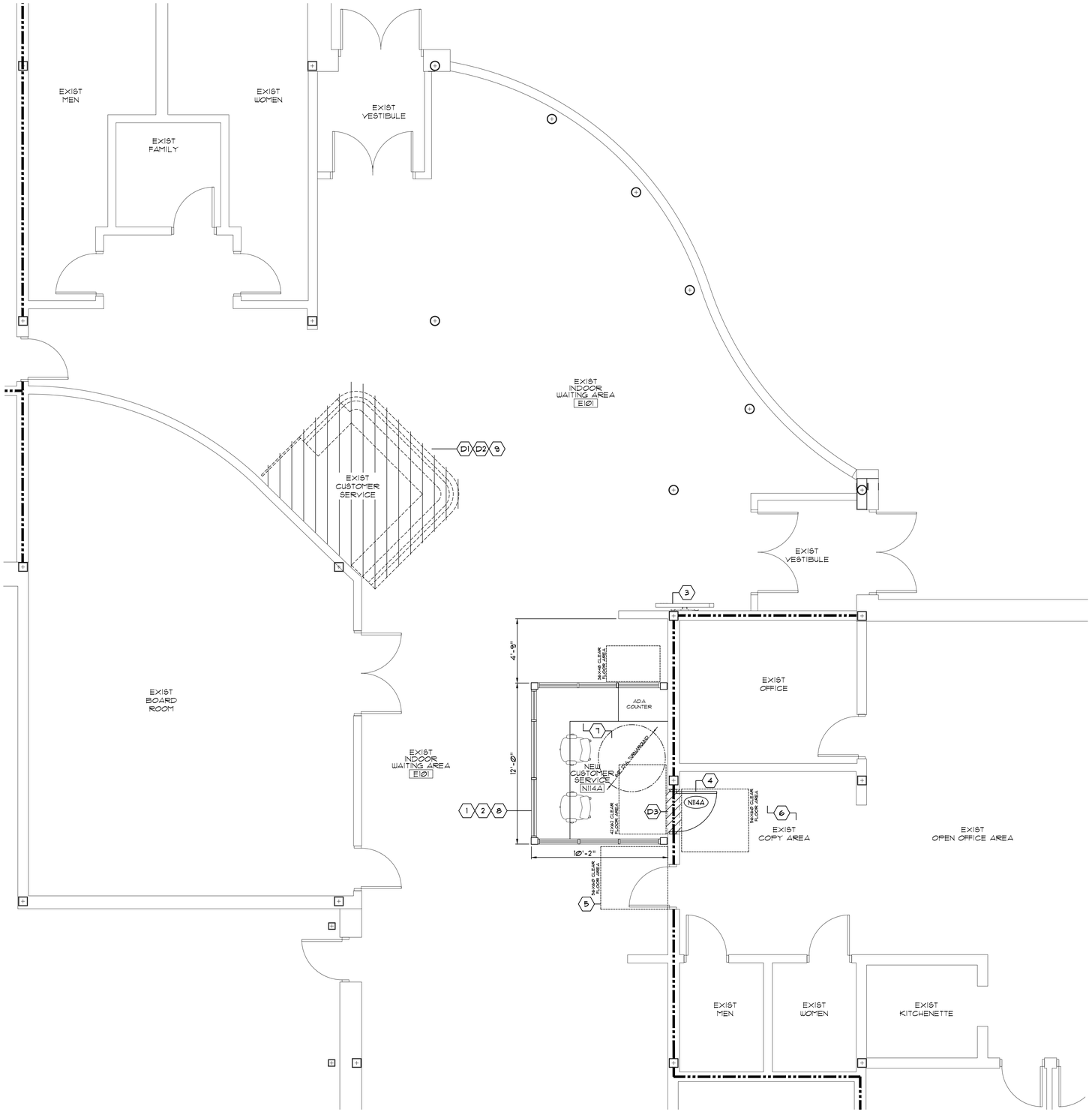


GENERAL NOTES - DEMOLITION

D1 DENOTES EXISTING CUSTOMER SERVICE COUNTER TO BE REMOVED BY OWNER.

D2 DENOTES EXISTING BUILDING ELECTRICAL SERVICE/TELEPHONE/DATA TO BE DISCONNECTED AT THE CUSTOMER SERVICE COUNTER AND CAPPED - COORDINATE WITH ELECTRICAL AND AS REQUIRED BY CODE .

NOTE: WALL AND/OR FLOORING PENETRATIONS TO BE PATCHED/PREPARED TO RECEIVE NEW WALL/FLOOR FINISHES.

D3 DENOTES EXISTING PORTION OF EXISTING WALL/PARTITION TO BE REMOVED FOR NEW DOOR INSTALLATION .

GENERAL NOTES - NEW CONSTRUCTION

1 DENOTES NEW PARTIAL HEIGHT METAL STUD WALL WITH SOLID SURFACE TRANSACTION COUNTER (48" HIGH) AND STOREFRONT/CHANNEL SYSTEM (EQUIVALENT TO KAWNEER TRI-FAB 400/COLOR TO BE SELECTED) FROM TRANSACTION COUNTER TO EXISTING CEILING WITH OPERATIONAL SERVICE WINDOWS.

2 DENOTES ELECTRICAL/TELEPHONE/DATA TO BE PROVIDED AT THE CUSTOMER SERVICE COUNTER - COORDINATE WITH ELECTRICAL DRAWINGS AND SUBCONTRACTOR.

NOTE: BOX/CONDUIT FOR TELEPHONE/DATA BY ELECTRICAL SUBCONTRACTOR WITH WIRING FURNISHED/INSTALLED BY OWNER UNDER SEPARATE CONTRACT.

3 DENOTES EXISTING WALL MOUNTED TV TO REMAIN.

4 DENOTES NEW 1 ½-HOUR RATED HOLLOW METAL FRAME/WOOD DOOR (MATCH EXISTING) WITH BUTTS/CLOSER/RIM EXIT DEVICE/FLOOR STOP (MATCH EXISTING).

5 DENOTES EXISTING REQUIRED DOOR CLEARANCE AREA SHALL NOT BE ENCROACHED BY NEW CONSTRUCTION. COORDINATE/ESTABLISH PRIOR TO ANY CONSTRUCTION.

6 DENOTES EXISTING FURNITURE TO BE REMOVED/RELOCATED BY OWNER.

7 DENOTES EXISTING FLOORING TO REMAIN.

NOTE: PROVIDE NEW BASE ON EXTERIOR/INTERIOR OF NEW CUSTOMER SERVICE WALLS.

8 DENOTES NEW MEAL STUD ABOVE CEILING STOREFRONT SUPPORT SYSTEM - RE DRAWING #A2.

9 DENOTES EXISTING FLOORING TO BE CLEANED, PATCHED/REPLACED AS REQUIRED BY OWNER.

LEGEND

(#) DENOTES GENERAL NOTES ON THIS DRAWING.

DENOTES EXIST PARTITION/CONSTRUCTION TO REMAIN

DENOTES EXISTING PARTITION/CONSTRUCTION TO BE REMOVED

DENOTES NEW NON-RATED INTERIOR PARTITION (3⅝"/20 GA. METAL STUD FRAMING) WITH NEW PAINTED ⅝" THICK GYPSUM WALL BOARD (BOTH SIDES) WITH 3 ½" SOUND ATTENUATION INSULATION BATTS - HEIGHT FROM EXISTING FINISHED FLOOR TO UNDERSIDE OF NON-RATED CEILING ABOVE.

DENOTES EXIST 2-HR RATED PARTITION/CONSTRUCTION TO REMAIN

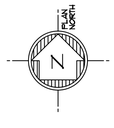
DENOTES EXIST 2-HR RATED PARTITION/CONSTRUCTION TO BE REMOVED

DENOTES EXISTING FRAME, DOOR AND HARDWARE TO REMAIN.

DENOTES NEW FRAME, DOOR AND HARDWARE - SEE GENERAL NOTE #4/DRAWING #A1 .

DIMENSIONS ARE FROM FACE OF CONSTRUCTION TO FACE OF CONSTRUCTION.

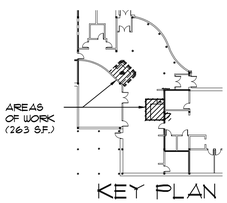
DENOTES FLOOR CLEARANCES IN ACCORDANCE WITH 2018 NCSBC/ICC A117.1-2009



1 / A1 PARTIAL PLAN - EXISTING/ DEMOLTION/NEW CONSTRUCTION

1/4" = 1'-0"

scale: 2 0 2 4 6 8 10 feet



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DRAWN BY
PAULA MILLER-JOYCE

ISSUE DATE

5/8/2024	CLIENT REVIEW
7/26/2024	PERMIT/CONSTRUCTION SET OWNER REVIEW
8/13/2024	PERMIT/CONSTRUCTION SET OWNER REVEW
8/14/2024	FINAL PERMIT/ CONSTRUCTION SET

REVISIONS

PROJECT NUMBER
186724.08

DRAWING NUMBER
PARTIAL PLAN- EXISTING DEMOLITION/ NEW CONSTRUCTION

A1

14 AUGUST 2024

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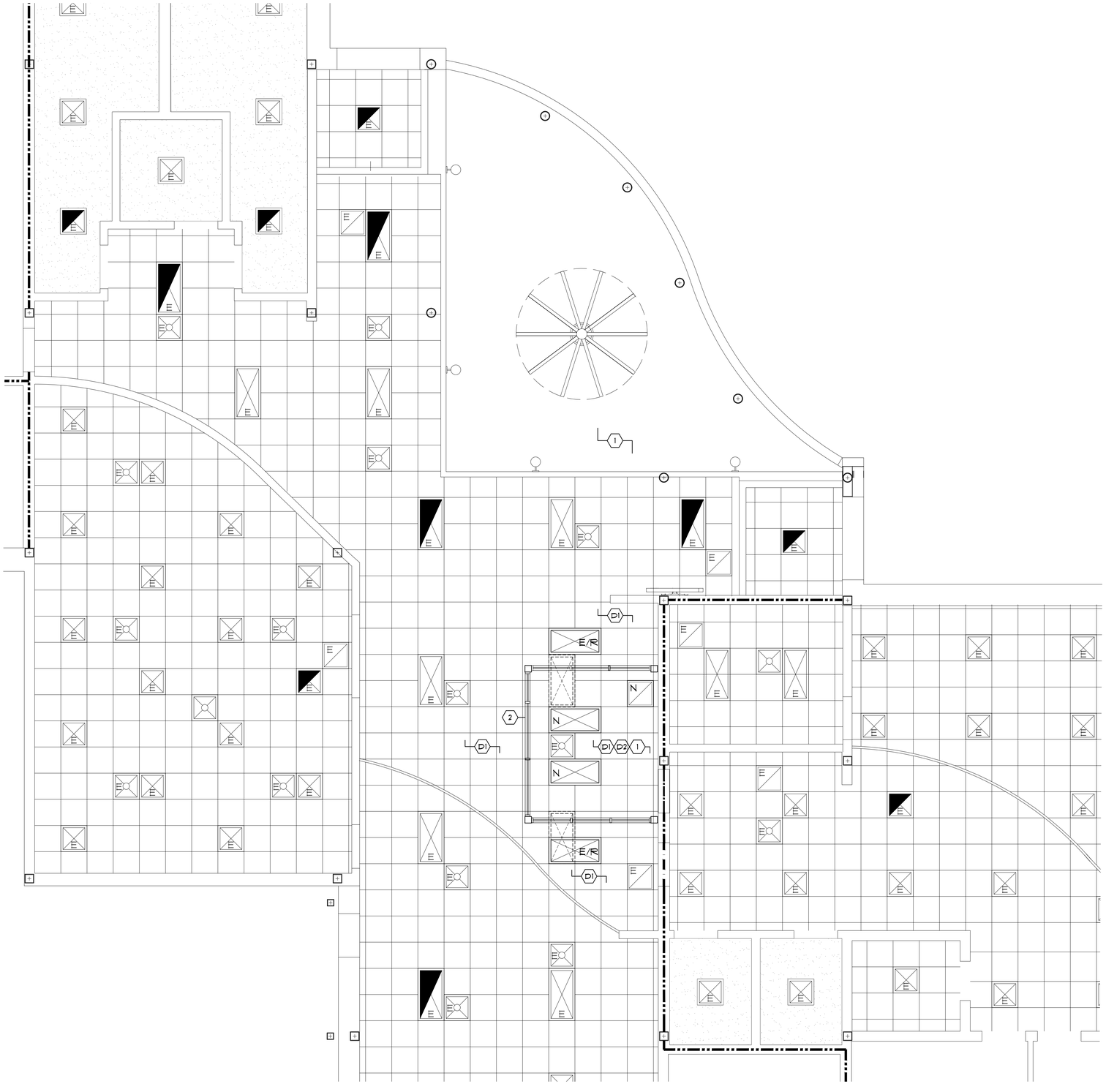


GENERAL NOTES - DEMOLITION

(D1) DENOTES EXISTING CEILING GRID/TILE TO BE REMOVED IN AREA OF WORK. COORDINATE WITH NEW STOREFRONT/ABOVE CEILING SUPPORT RE: DRAWING #A1.

NOTE: STORE EXISTING TILE FOR INSTALLATION IN NEW GRID SYSTEM.

(D1) DENOTES EXISTING CEILING GRID/TILE TO BE CUT/MODIFIED FOR NEW STOREFRONT FRAMING/ABOVE CEILING SUPPORT.

NOTE: EXISTING GRID SYSTEM SUPPORT RUNNERS TO BE RE-ANCHORED TO STOREFRONT ABOVE CEILING SUPPORT BOTTOM WOOD PLATES.

GENERAL NOTES

(1) DENOTES NEW SUSPENDED CEILING GRID/EXISTING TILE.

(2) DENOTES NEW/EXISTING CEILING SYSTEM EDGE TERMINATION ON BOTH SIDES OF NEW STOREFRONT TOP FRAMING- MATCH EXISTING SIZE/FINISH.

LEGEND

(#) DENOTES 'GENERAL NOTES' ON THIS DRAWING.

DENOTES EXISTING PREFINISHED 2X2 SUSPENDED CEILING GRID AND ACOUSTICAL PANELS TO REMAIN

NOTE: EXISTING PREFINISHED 2X2 SUSPENDED CEILING GRID AND ACOUSTICAL PANLES TO BE REMOVED/REINSTALLED AS NEEDED FOR NEW CONSTRUCTION

DENOTES EXISTING LAY-IN 2X4 FLUORESCENT LIGHT FIXTURE TO BE REMOVED/RELOCATED

E/R DENOTES EXISTING/RELOCATED RECESSED 2X4 FLUORESCENT LIGHT FIXTURE INSTALLED BY ELECTRICAL CONTRACTOR - COORDINATE WITH ELECTRICAL DRAWINGS AND SUBCONTRACTOR

N DENOTES NEW RECESSED 2X4 FLUORESCENT LIGHT FIXTURE FURNISHED/INSTALLED BY ELECTRICAL CONTRACTOR - COORDINATE WITH ELECTRICAL DRAWINGS AND SUBCONTRACTOR

E DENOTES EXISTING RECESSED 2X4 FLUORESCENT LIGHT FIXTURE TO REMAIN

E DENOTES EXISTING EMERGENCY RECESSED 2X4 FLUORESCENT LIGHT FIXTURE TO REMAIN

E DENOTES EXISTING RECESSED 2X2 FLUORESCENT LIGHT FIXTURE TO REMAIN

E DENOTES EXISTING EMERGENCY RECESSED 2X2 FLUORESCENT LIGHT FIXTURE TO REMAIN

DENOTES EXISTING ROUND WALL MOUNTED LIGHT FIXTURE TO REMAIN

E DENOTES EXISTING MECHANICAL RETURN AIR GRILLE TO REMAIN

N DENOTES NEW MECHANICAL RETURN AIR GRILLE

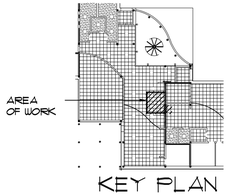
E DENOTES EXISTING MECHANICAL SUPPLY AIR GRILLE TO REMAIN

PLAN NORTH

1 / A2 PARTIAL REFLECTED CEILING PLAN - EXISTING/DEMOLTION/NEW CONSTRUCTION

3/8" = 1'-0" scale 1 0 1 2 3 4 5 6 7 feet

NOTE: REMOVE AND STORE ALL EXISTING ACOUSTICAL TILE PANELS IN NEW CONSTRUCTION AREA DURING DEMOLITION PHASE. REINSTALL AFTER COMPLETION OF ABOVE CEILING WORK. ALL PANELS SEVERELY DAMAGED OR WITH HOLES SHALL BE REPLACED (USING EXISTING BUILDING ATTIC STOCK OR PROVIDE NEW/MATCHING EXIST).



KEY PLAN

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PROJECT NUMBER
186724.08

DRAWING NUMBER
PARTIAL RCP PLAN - EXSITNG DEMOLITION/ NEW CONSTRUCTION

A2

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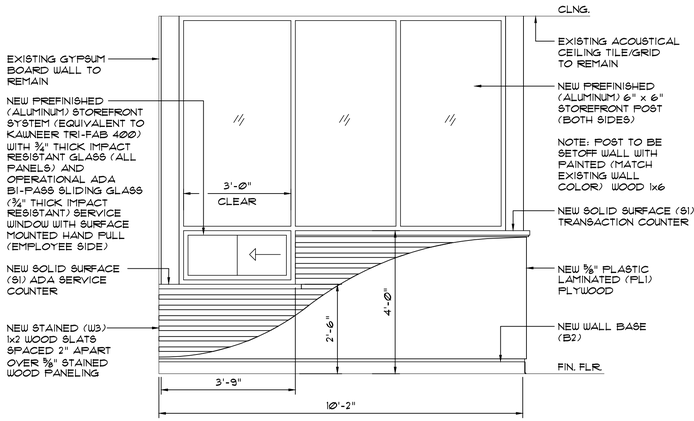
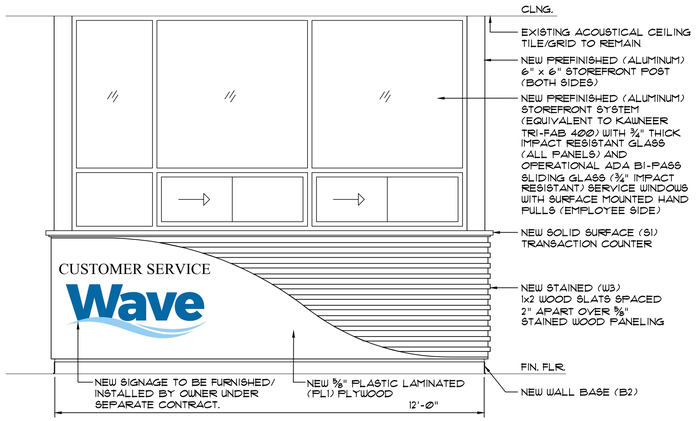
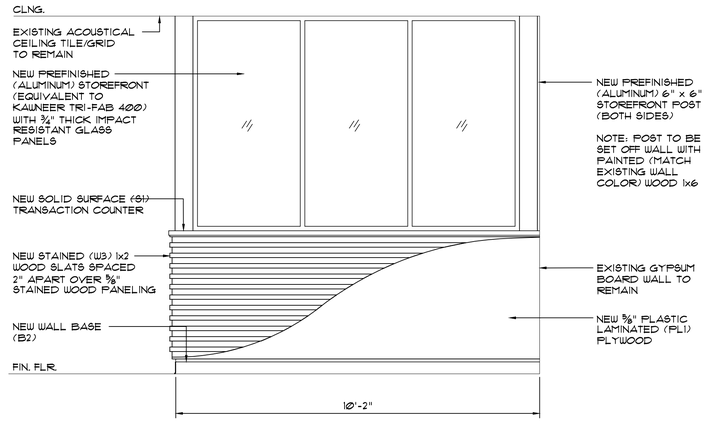


ELEVATION A



ELEVATION B



ELEVATION C

ELEVATION D

NEW 3⅝"/20 GA. METAL STUD ABOVE CEILING STOREFRONT SUPPORT SYSTEM CONSISTING OF CONTINUOUS TOP/BOTTOM RUNNER/S ANCHORED TO UNDERSIDE OF EXISTING ROOF FRAMING/JOIST WITH VERTICAL FRAMING AT CORNERS AND 48-INCH CENTERS BETWEEN CORNER/EXISTING WALL (ALONG WITH DIAGONAL CROSS FRAMING ON BOTH SIDES OF VERTICALS FROM BOTTOM PLATE AT TOP OF WOOD BLOCKING TO EXISTING STRUCTURAL ROOF FRAMING) WITH DOUBLE 2x4 TREATED (FIRE-RETARDANT OR FIELD COATED FIRE PROTECTIVE PAINT) WOOD.

NOTE: BOTTOM OF 2x4 WOOD PLATES TO MATCH BOTTOM OF EXITING SUSPENDED CEILING GRID FOR STOREFRONT TOP FRAMING ANCHORAGE AND EXISTING/NEW SUSPENDED CEILING AND SUPPORT INCLUDING NEW CONTINUOUS EDGE TERMINATIONS/TRIM.

ELEVATION E

ELEVATION F

1 / A3 NEW CUSTOMER SERVICE #N114A

1/2" = 1'-0" scale (1 0 1 2 3 4 5 feet)

NOTES:
1) LAMINATED PLYWOOD SURFACE TO BE FLUSH WITH STAINED WOOD SLATS
2) ELECTRICAL/TELEPHONE/DATE OUTLETS FURNISHED AND INSTALLED BY ELECTRICAL SUBCONTRACTOR.
3) CHANGE ALL WOOD FRAMING TO METAL FRAMING 3⅝"/20 GA.

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR MATERIAL	FLOOR COLOR	FLOOR ACCENT	FLOOR PATTERN	BASE MATERIAL	BASE COLOR	WALLS MATERIAL	WALLS COLOR	WALLS ACCENT	CEILING MATERIAL	CEILING COLOR	CEILING ACCENT	CEILING HEIGHT	REMARKS
FIRST FLOOR															
E101	EXISTING INDOOR WAITING AREA	EXISTING TERRAZZO TILE	F1		-	EXISTING	B1	EXIST PAINTED GYP WALLBOARD	W1	-	EXIST/NEW ACOUSTICAL CEILING TILE/GRID	C1	C2	10'-0"	PATCH EXISTING FINISHES AS NEEDED
N114A	EXISTING/NEW CUSTOMER SERVICE	EXISTING TERRAZZO TILE	F1		-	NEW WALL BASE	B2	EXIST/NEW PAINTED GYP WALLBOARD	W2	W3	EXIST/NEW ACOUSTICAL CEILING TILE/GRID	C1	-	10'-0"	

COLOR SCHEDULE

MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION
FLOOR		BASE		WALLS		CEILINGS		MISC.		DOORS/FRAMES	
F-1	TERRAZZO TILE (EXISTING) NOTE: CLEAN AREAS OF DEMOLITION/NEW CONSTRUCTION UPON COMPLETION. DAMAGED TILES TO BE REPAIRED/REPLACED - MATCH EXISTING.	B-1	WALL BASE (EXISTING TO REMAIN) NOTE: PROVIDE NEW BASE AS REQUIRED AFTER EXISTING DESK IS REMOVED - MATCH EXISTING.	W-1	PAINT (EXISTING) NOTE: CLEAN AND PREP AREAS OF SCUFFED/DAMAGED WALLS AFTER DEMOLITION/NEW CONSTRUCTION - MATCH EXISTING COLOR	C-1	ACOUSTICAL CEILING TILE & GRID MANUFACTURER: MATCH EXISTING MODEL/STYLE: MATCH EXISTING COLOR: MATCH EXISTING FINISH: MATCH EXISTING	S-1	SOLID SURFACE (TRANSACTION & WORK COUNTERS) MANUFACTURER & COLOR: TO BE APPROVED BY ARCHITECT	D1	STAIN (INTERIOR DOOR) MANUFACTURER: TO BE APPROVED BY ARCHITECT COLOR: MATCH EXISTING
		B-2	WALL BASE MANUFACTURER & COLOR: TO BE APPROVED BY ARCHITECT	W-2	PAINT MANUFACTURER, COLOR, & FINISH TO BE APPROVED BY ARCHITECT	C-2	PAINT MANUFACTURER, COLOR & FINISH: TO BE APPROVED BY ARCHITECT	PL-1	PLASTIC LAMINATE (CUSTOMER SIDE) MANUFACTURER & COLOR: TO BE APPROVED BY ARCHITECT	F1	PAINT (FRAME) MANUFACTURER: TO BE APPROVED BY ARCHITECT COLOR: MATCH EXISTING
				W-3	STAIN MANUFACTURER, COLOR, & FINISH TO BE APPROVED BY ARCHITECT			PL-2	PLASTIC LAMINATE (BOX/BOX/FILES & COUNTER SUPPORTS) MANUFACTURER & COLOR: TO BE APPROVED BY ARCHITECT		

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ISSUE DATE

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8/14/2024	FINAL PERMIT/ CONSTRUCTION SET

REVISIONS

PROJECT NUMBER
186724.08

DRAWING NUMBER
CUSTOMER SERVICE ELEVATIONS & MILLWORK DETAILS

A3

14 AUGUST 2024

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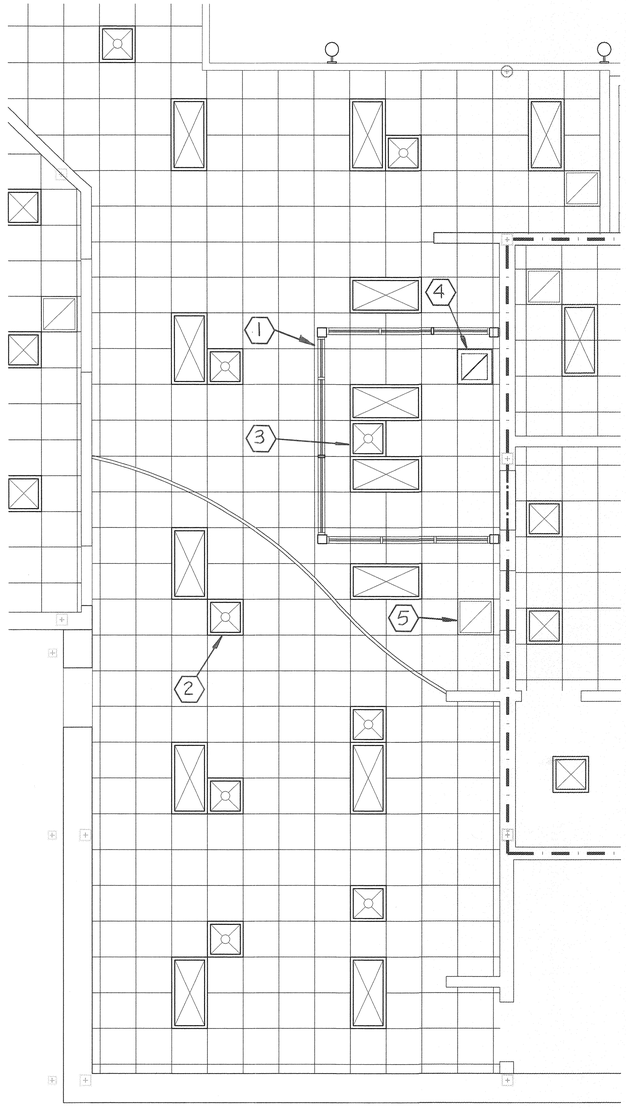
NOTES KEYED TO SHEET H1:

1. NEW CUSTOMER SERVICE DESK ENCLOSURE.
2. EXISTING SUPPLY GRILLES TO REMAIN UNCHANGED.
3. THIS EXISTING SUPPLY GRILLE REMAINS IN ITS CURRENT LOCATION, AND REMAINS AT ITS CURRENT AIRFLOW OF 130 CFM.
4. PROVIDE NEW LAY-IN PLENUM RETURN GRILLE TO MATCH EXISTING, SEE KEYED NOTE 5. PROVIDE 24 X 24 X 12 HIGH GALVANIZED SHEETMETAL SOUND BAFFLE BOX WITH DUCT LINER INSIDE, OPEN ON ONE SIDE
5. EXISTING PLENUM RETURN GRILLE TO REMAIN. NEW GRILLE FOR KEYED NOTE 4 SHALL MATCH THIS GRILLE.

GENERAL HVAC NOTES:

1. THERE ARE NO **FIRE-RATED WALLS** AFFECTED BY ANY WORK ON THIS PROJECT.
2. THE MECHANICAL EQUIPMENT IS EXISTING TO REMAIN, SO NO **MECHANICAL EQUIPMENT ENERGY SUMMARY** IS PROVIDED.
3. EXISTING **OUTSIDE AIR** PROVISIONS ARE UNCHANGED.
4. EXISTING THERMOSTATS AND SENSORS ARE UNCHANGED.



1 **HVAC PARTIAL CEILING PLAN**
SCALE: ¼" = 1'-0"

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CHECKED BY

DRAWN BY

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7/26/2024	PERMIT/CONSTRUCTION SET OWNER REVIEW

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DRAWING NUMBER
PARTIAL HVAC REFLECTED CEILING PLAN

H1

26 JULY 2024

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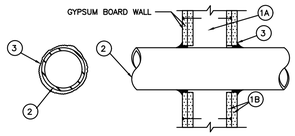
FORDEN STATION - CUSTOMER SERVICE CENTER RENOVATIONS - 505 CANDO STREET, WILMINGTON, NORTH CAROLINA

GENERAL NOTES AND REQUIREMENTS.

1. WORKMANSHIP SHALL CONFORM TO NECA PUBLICATION "STANDARDS OF INSTALLATION".
2. INSTALLATION SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, STATE BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR (FURNISH INSPECTION CERTIFICATE). ALL WORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR.
3. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO INSTALLATION OF ELEC. EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
5. ALL BRANCH CIRCUITS SHALL BE IN ZINC-COATED EMT, OR RIGID CONDUIT AS PERMITTED OR REQUIRED BY THE NATIONAL ELECTRICAL CODE. TYPE MC CABLE MAY BE USED AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. SCHEDULE 40 PVC CONDUIT MAY BE USED ONLY FOR THE SECONDARY UNDERGROUND SERVICE, THE UNDERGROUND TELEPHONE SERVICE CONDUIT, AND BRANCH TELEPHONE SYSTEM CONDUITS LOCATED BELOW THE FLOOR SLAB ON GRADE OR BURIED ON THE EXTERIOR OF THE BUILDING, OR IN CONCRETE BLOCK WALLS. ALL CONDUIT SHALL BE A 1/2" MINIMUM SIZE. EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE.
6. PROVIDE 4"WIDE PLASTIC TAPE, MAGNETIC DETECTABLE TYPE, COLORED RED WITH SUITABLE WARNING LEGEND DESCRIBING BURIED ELECTRICAL LINES OR ORANGE DESCRIBING BURIED TELEPHONE LINES.
7. ALL CONDUCTORS SHALL BE COPPER TYPE THHN, OR XHHW, SOLID FOR #10 AWG OR #12 AWG, AND STRANDED FOR ALL LARGER SIZES.
8. ALL WIRING SHALL BE CONCEALED IN WALLS, UNDER SLAB, OR ABOVE SUSPENDED CEILING SPACE.
9. ALL WIRE AND CONDUIT SIZES ARE BASED ON 75°C THHN WIRE UNLESS OTHERWISE NOTED.
10. CONDUITS MAY BE RUN EXPOSED IN MECHANICAL AREAS. CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS AND SHALL BE RUN IN GROUPS. SEAL ALL PENETRATIONS TIGHT AROUND ALL CONDUITS WHEN PASSING INTO MECHANICAL ROOMS.
11. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM.
12. WHERE FIRST OUTLET ON BRANCH CIRCUIT IS GREATER THAN FIFTY (50) FEET FROM THE PANELBOARD, USE #10 AWG MINIMUM TO THE FIRST OUTLET.
13. ALL MOUNTING HEIGHTS ARE GIVEN TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED. RECEPTACLES, DATA AND TELEPHONE OUTLET TO BE MOUNTED 18"AFF UNLESS OTHERWISE NOTED. LIGHT SWITCHES TO BE MOUNTED 48"AFF UNLESS OTHERWISE NOTED.
14. THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
15. ALL FUSES, DISCONNECT SWITCHES, AND BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
16. ALL DISCONNECT SWITCHES ARE TO BE FUSIBLE TYPE. FUSE IN ACCORDANCE WITH THE NAMEPLATE DATA WITH DUAL ELEMENT TYPE FUSES BY BUSSMAN OR EQUAL.
17. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES. COORDINATE CLOSELY.
18. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE-REQUIRED AND MANUFACTURER-RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED. INSTALLATIONS SHALL FULLY COMPLY WITH NEC 110-26 FOR CLEARANCE REQUIREMENTS.
19. COORDINATE LOCATIONS OF ALL LIGHT FIXTURES WITH THE REFLECTED CEILING PLANS. LIGHT FIXTURES INSTALLED IN MECHANICAL AREAS SHALL AVOID MECHANICAL PIPING, EQUIPMENT, DUCTWORK, ETC.
20. GROUND SHALL BE PER N.E.C. PROVIDE SEPARATE GROUNDING CONDUCTOR FOR ALL CIRCUITS. PROVIDE DRIVEN AND COLD WATER GROUND FOR MAIN SERVICE.
21. GROUND TELEPHONE EQUIPMENT PER NEC.
22. THE ELECTRICAL CONTRACTOR SHALL PATCH ANY WALL, CEILING, OR FLOOR OPENING AND PENETRATIONS RESULTING FROM DEMOLITION OR NEW WORK IN EXISTING AREAS.
23. ALL WIRING SHALL BE CONCEALED IN METALLIC CONDUIT.
24. COMBINE HOMERUNS IN CONDUIT AS DESIRED (3 ON 3-PHASE, 2 ON SINGLE PHASE). DO NOT OVERLOAD NEUTRALS.
25. ALL CIRCUITS SHALL BE TESTED WITH 500 VOLT TESTER PRIOR TO ENERGIZING.
26. ALL WALL OUTLET BOXES SHALL BE STEEL CITY OR RACO
27. RECEPTACLES, SWITCHES, COVERPLATES, ETC. SHALL BE HUBBELL, LEVITON, OR LEGRAND EXCEPT AS SPECIFIED. COLOR SPECIFIED BY ARCHITECT, VERIFY COLOR PRIOR TO PURCHASE.
28. PROVIDE PULL WIRE IN ALL EMPTY CONDUIT.
29. CONDUIT SHALL BE LABELED EVERY TEN FEET.
30. ALL RECEPTACLE AND SWITCH PLATES SHALL BE LEGIBLY MARKED WITH LABEL MARKER TO CLEARLY INDICATE PANELBOARD ORIGIN AND CIRCUIT NUMBER. VERIFY IF LABEL SHOULD BE ON THE INSIDE OR OUTSIDE FACE OF COVERPLATE WITH OWNER/TENANT.
31. PROVIDE PHENOLIC LABELS ON ALL MAJOR EQUIPMENT INCLUDING SWITCHBOARDS, MOTOR CONTROL CENTERS, PANELBOARDS, INDIVIDUAL STARTERS, SAFETY SWITCHES, AND TRANSFORMERS. PROVIDE ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND.
32. ALL CIRCUIT BREAKERS IN PANEL SHALL BE SERIES RATED WITH MAIN BREAKER OR FULLY RATED FOR THE SYSTEM.
33. CONTRACTOR SHALL PROVIDE ENGINEER A MINIMUM OF 3 COPIES OF SHOP DRAWINGS FOR LIGHTS, SWITCHGEAR, PANELS, ETC.
34. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE W/ ALL OTHER TRADES REGARDING VOLTAGES, LOADS, CIRCUIT BREAKERS, ETC. PRIOR TO BEGINNING ANY WORK.
35. AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.
36. PANELS SHALL BE BY SQUARE "D", G.E. AND SIEMENS. PANELS SHALL BE SQUARE "D" TYPE NQOD OR "I-LINE" AS REQUIRED.
37. FOR NEW OR MODIFIED SERVICES, PRIOR TO ENERGIZATION AND AFTER UTILITY FAULT CURRENT CONFIRMATION AT THE DELIVERY POINT, PROVIDE PLAQUE AT SERVICE EQUIPMENT STATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE OF CALCULATION PER NEC 110.24.
38. OPERABLE DEVICES SHALL BE ACCESSIBLE IN COMPLIANCE WITH ANSI A117.1, SECTION 309, OPERABLE PARTS. WHERE GFI RECEPTACLES ARE NOT ACCESSIBLE, PROVIDE GFI BREAKER.
39. RECESSED LIGHTING FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE IC RATED AND LABELED AS MEETING ASTM E283. OR SHALL BE TENTED TO REMOVE THEM FROM THE THERMAL ENVELOPE
40. BRANCH CIRCUITS SERVING EXIT & EMERGENCY FIXTURES SHALL BE CLEARLY LABELED ON THE PANELBOARD DIRECTORY PER NEC 110.22(A), 408.4 & 700.12(I).
41. UPON PROJECT COMPLETION, THE EC SHALL PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND ALTERED PANELBOARDS WITH CIRCUIT DESIGNATIONS COMPLYING WITH THE REQUIREMENTS OF NEC 408.4(A).
42. ALL EXIT AND EMERGENCY LIGHTING SHALL BE FED FROM LOCAL BRANCH CIRCUIT, UNSWITCHED AND HAVE A MINIMUM OF 90 MINUTE BATTERY BACKUP PER NEC 700.12(I)(2).
43. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABELED AND LISTED BY A THIRD PARTY AGENCY. THE THIRD PARTY AGENCY SHALL BE AMONG THOSE ACCEPTABLE TO THE NC BUILDING CODE COUNCIL TO LABEL ELECTRICAL AND MECHANICAL EQUIPMENT.



U.L. #WL1001

1. Wall Assembly - The 1,2,3, or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plateds and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

B. Wallboard,Gypsum* - Nom 1/2 or 5/8 in. thick, 4ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 13-1/2 in.

2. Pipe or Conduit - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing or Type L or (or heavier) copper tubing or nom 1 in. (or smaller) flexible steel conduit. When copper pipe or flexible steel conduit is used, max F Rating of firestop system (Item 3) is 2h. Steel pipes or conduits larger than nom 4 in. diam may only be used in wall constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.

3. Fill, Void or Cavity Material* - Caulk - Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam, In	Annular Space, In	F Rating, Hr	T Rating, Hr
1	0 to 3/16	1 or 2	0+, 1 or 2
1	1/4 to 1/2	3 or 4	3 or 4
4	0 to 1/4	1 or 2	0
4	0 to 1-1/2#	1 or 2	0
6	1/4 to 1/2	3 or 4	0
12	3/16 to 3/8	1 or 2	0

\+ When copper pipe is used, T Rating is 0 h
\# 0 to 1-1/2 in. annular space applies only when Type CP-25 WB+ caulk is used.

Minnesota Mining & Mfg. Co. - Types CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+.
(NOTE: L Rating apply only when Type CP-25 WB+ caulk is used).
*Bearing the UL Classification Marking

5 / E1 RATED WALL PENETRATION DETAIL
SCALE: NTS

ABBREVIATIONS

A	AMPS, AMPERES	KVA	KILOVOLT-AMPERES
AIC	AMPS INTERRUPTING CURRENT	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	MC	METAL CLAD CABLE
AF	AMP FUSE	MCA	MINIMUM CIRCUIT AMPACITY
AFC	ABOVE FINISHED CEILING	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AFG	ABOVE FINISHED GRADE	NA	NOT APPLICABLE
AHJ	AUTHORITY HAVING JURISDICTION	NCSBC	NORTH CAROLINA STATE BUILDING CODE
BRKR	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
C	CONDUIT	NF	NON-FUSED
CKT	CIRCUIT	NL	NIGHT LIGHT - UNSWITCHED
CLG	CEILING	NIC	NOT IN CONTRACT
CTR	COUNTER - DEVICE MOUNTED ABOVE	NTS	NOT TO SCALE
DISC	DISCONNECT SWITCH	MC	MECHANICAL CONTRACTOR
E	EXISTING TO REMAIN	P	POLES
EC	ELECTRICAL CONTRACTOR	PC	PLUMBING CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER	PH	PHASE
EF	EXHAUST FAN	PNL	PANELBOARD
EM	EMERGENCY	R	RELOCATED
EMT	ELECTRICAL METALLIC TUBING	SW	SHOW WINDOW RECEP, 18"MAX ABOVE WINDOW
ETR	EXISTING TO REMAIN	T	TAMPER RESISTANT RECEPTACLE
EX	EXISTING	UL	UNDERWRITER'S LABORATORIES
FA	FIRE ALARM	ULSE	UL SERVICE ENTRANCE
GC	GENERAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED
GFCI	GROUND FAULT CURRENT INTERRUPTER	V	VOLTS
G	GROUND	W	WIRE
HP	HORSEPOWER	W/	WITH
IMC	INTERMEDIATE METAL CONDUIT	W/O	WITHOUT
JB	JUNCTION BOX	WP	WEATHERPROOF
KW	KILOWATT		

ELECTRICAL SYSTEM AND EQUIPMENT (SECTION C405)

METHOD OF COMPLIANCE SECTION C405.1 ■

LIGHTING SCHEDULE
LAMP TYPE REQUIRED IN FIXTURE
NUMBER OF LAMPS IN FIXTURE
BALLAST TYPE USED IN FIXTURE
NUMBER OF BALLASTS IN FIXTURE
TOTAL WATTAGE PER FIXTURE
} SEE LIGHTING FIXTURE SCHEDULE
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED: .09kW VS .29kW
TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED: N/A-EXISTING

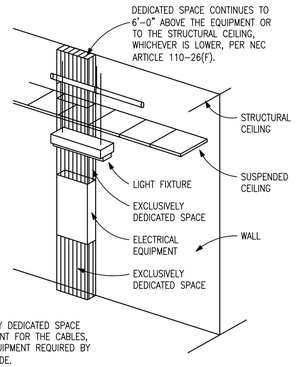
ADDITIONAL EFFICIENCY PACKAGE OPTIONS
☐ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
☐ C406.3 REDUCED LIGHTING POWER DENSITY
☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
☐ C406.5 ON-SITE RENEWABLE ENERGY
☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM
☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, ENERGY CODE 2018 EDITION

NAME: ANGUS M. CLARK PE

TITLE: ELECTRICAL ENGINEER



NOTE:
THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER THE ELECTRICAL EQUIPMENT FOR THE CABLES, RACEWAYS, ETC... TO AND FROM THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26(F) OF THE NATIONAL ELECTRICAL CODE.

1 / E1 DEDICATED SPACE FOR ELECTRICAL EQUIPMENT
SCALE: NTS

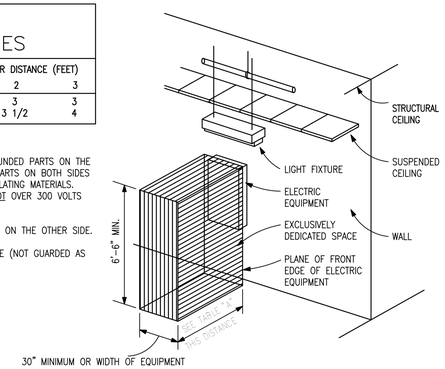
TABLE "A"
WORKING CLEARANCES

VOLTAGE TO GROUND, NOMINAL	MINIMUM CLEAR DISTANCE (FEET) CONDITION: 1	2	3
0-150	3	3	3
151-600	3	3 1/2	4

WHERE THE "CONDITIONS" ARE AS FOLLOWS:

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

NOTE:
THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRIC EQUIPMENT REQUIRED BY SECTION 110.26 OF THE NATIONAL ELECTRICAL CODE.



2 / E1 WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT
SCALE: NTS

ELECTRICAL LEGEND
(ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT)

- HOMERUN TO POWER SOURCE, 2#12,#12G 1/2"C UON
- BRANCH CIRCUIT WIRING CONCEALED IN WALLS AND CEILINGS
- BRANCH CIRCUIT WIRING CONCEALED UNDER FLOOR OR UNDERGROUND
- RECESSED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- DOWNLIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- WALL MOUNTED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- SURFACE MOUNTED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- EXIT SIGN, DIRECTIONAL ARROWS AS INDICATED. REFER TO LUMINAIRE SCHEDULE
- EMERGENCY LIGHT, REFER TO LUMINAIRE SCHEDULE
- EXIT/EMERGENCY LIGHT COMBINATION, REFER TO LUMINAIRE SCHEDULE
- DUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE
- SIMPLEX RECEPTACLE, AMP RATING AS NOTED, OR MATCH BREAKER SIZE
- GFCI — GFCI RECEPTACLE
- WP — WEATHERPROOF WHILE N USE GFCI RECEPTACLE
- T — TAMPER RESISTANT RECEPTACLE
- SW — SHOW WINDOW RECEPTACLE MOUNTED 18"MAX ABOVE WINDOW
- FLUSH MOUNTED FLOOR RECEPTACLE, CLOSED COVER WHILE-IN-USE
- FLUSH MOUNTED QUAD RECEPTACLE AND DATA, CLOSED COVER WHILE-IN-USE
- JUNCTION BOX FOR POWER CONNECTION
- EQUIPMENT POWER CONNECTION
- FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH
- PANELBOARD
- T — DRY TYPE TRANSFORMER
- $ — SINGLE POLE SWITCH
- $3 — THREE WAY SWITCH
- $4 — FOUR WAY SWITCH
- $OS — WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH (LINE VOLTAGE)
- OS — CEILING OR WALL MOUNTED DUAL TECH OCCUPANCY SENSOR (LINE VOLTAGE)
- $LV — LOW VOLTAGE LIGHTING CONTROL SWITCH
- $D — DIMMER SWITCH. 1500W SLIDER TYPE
- $DOS — DIMMER SWITCH WITH DUAL TECHNOLOGY OCCUPANCY SENSOR
- $T — WALL MOUNTED DECORATOR DIGITAL TIMER SWITCH WITH ON/OFF BUTTON, 48"AFF, 120/277V PROGRAMMABLE . INTERMATIC E1400 SERIES OR EQUAL.
- LC — LIGHTING CONTACTOR, MECHANICALLY HELD
- LCP — LIGHTING CONTROL PANEL
- ◀ — COMBINATION TELEPHONE/DATA OUTLET, EMPTY SINGLE GANG BOX WITH 3/4"C STUBBED ABOVE CEILING.
- TV — CABLE TV OUTLET, EMPTY SINGLE GANG BOX WITH 3/4"C STUBBED ABOVE CEILING. COORDINATE EXACT MOUNTING HEIGHT WITH GC PRIOR TO ROUGH-IN.
- CR — CARD READER ROUGH-IN, WITH EMPTY 3/4"C STUBBED ABOVE CEILING
- GND — BUILDING GROUND CONNECTION POINT, 3/8" COPPER STUD WITH #6G WIRE ROUTED TO GROUND BUS AT SERVICE DISCONNECT
- PC — PHOTOCELL, MOUNT WITH SENSOR FACING NORTH, EXACT LOCATION TO BE DETERMINED
- (X) — EXISTING EQUIPMENT TO BE REMOVED
- (E) — EXISTING EQUIPMENT TO REMAIN
- (R) — EXISTING EQUIPMENT TO BE RELOCATED

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CHECKED BY
ANGUS CLARK

DRAWN BY
RAYBURN WELLS

ISSUE DATE

5/8/2024	CLIENT REVIEW
8/16/2024	PERMIT/CONSTRUCTION SET OWNER REVIEW

REVISIONS

PROJECT NUMBER
186724.08

DRAWING NUMBER
ELECTRICAL COVER SHEET

E1

16 AUGUST 2024

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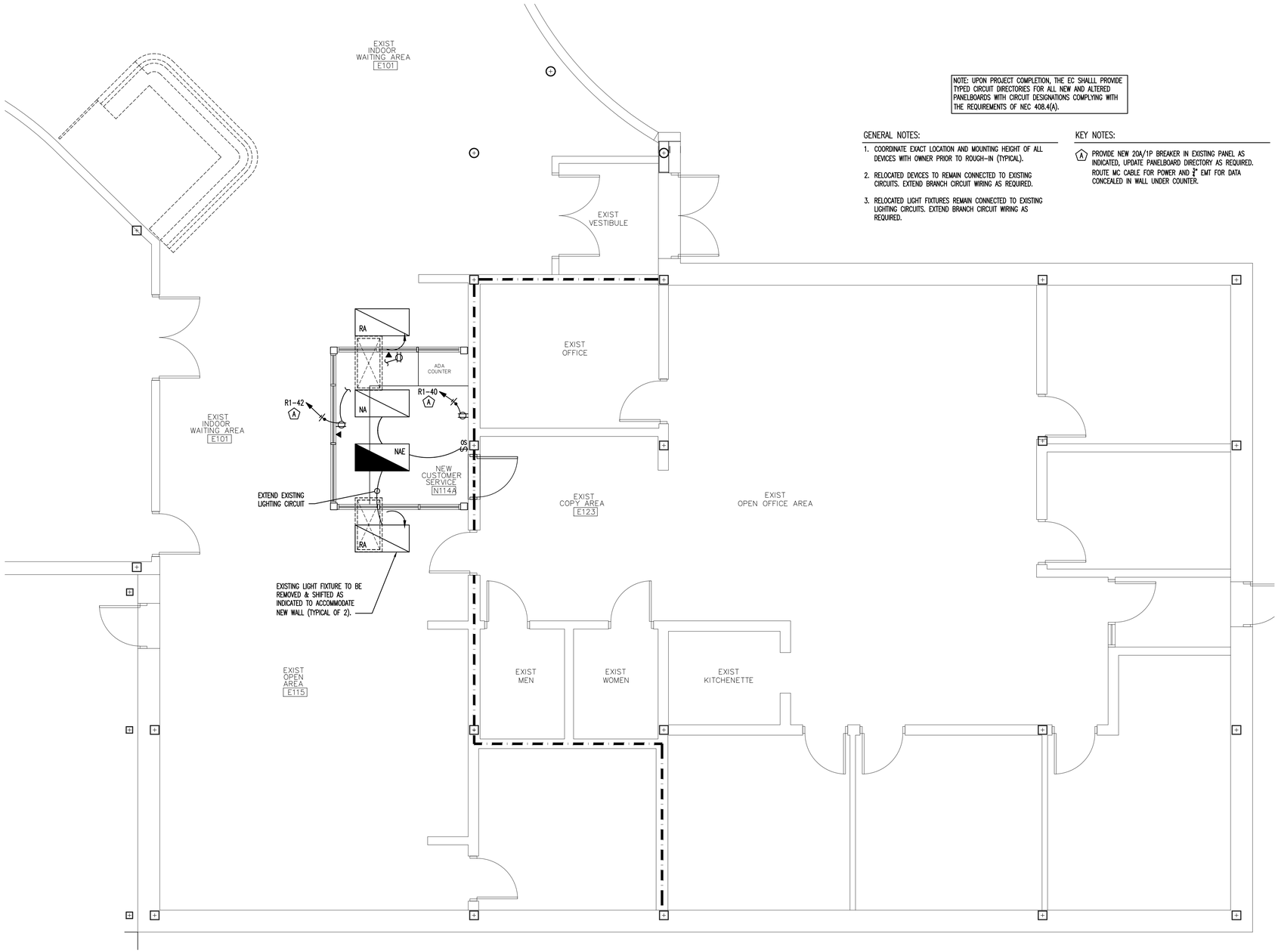


NOTE: UPON PROJECT COMPLETION, THE EC SHALLL PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND ALTERED PANELBOARDS WITH CIRCUIT DESIGNATIONS COMPLYING WITH THE REQUIREMENTS OF NEC 408.4(A).

GENERAL NOTES:

1. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES WITH OWNER PRIOR TO ROUGH-IN (TYPICAL).
2. RELOCATED DEVICES TO REMAIN CONNECTED TO EXISTING CIRCUITS. EXTEND BRANCH CIRCUIT WIRING AS REQUIRED.
3. RELOCATED LIGHT FIXTURES REMAIN CONNECTED TO EXISTING LIGHTING CIRCUITS. EXTEND BRANCH CIRCUIT WIRING AS REQUIRED.

KEY NOTES:

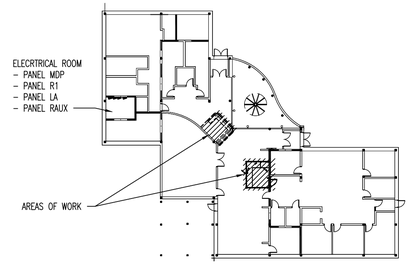
(A) PROVIDE NEW 20A/1P BREAKER IN EXISTING PANEL AS INDICATED, UPDATE PANELBOARD DIRECTORY AS REQUIRED. ROUTE MC CABLE FOR POWER AND ½" EMT FOR DATA CONCEALED IN WALL UNDER COUNTER.

1 E2 ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	MODEL	LAMP	INPUT WATTS	VOLTS	MOUNTING	NOTE 1
NA		2'x4' LED PANEL	LITHONIA CPX-2X4-AL08-80-SWW7-A12-MVOLT *EC SHALL FIELD MATCH EXISTING PANELS	LED	45	MULTIPLE	RECESSED	
NAE		2'x4' LED PANEL (EMERGENCY)	LITHONIA CPX-2X4-AL08-80-SWW7-A12-MVOLT-E10WLCP *EC SHALL FIELD MATCH EXISTING PANELS	LED	45	MULTIPLE	RECESSED	UNSWITCHED EMERGENCY
RA		2'x4' TROFFER	EXISTING TO BE REMOVED/RELOCATED	LED	39	MULTIPLE	RECESSED	

GENERAL NOTES:
1. FIXTURES OF EQUAL QUALITY MAY BE SUBMITTED. ALL FINAL FIXTURE TYPES, FINISHES AND ANY SUBSTITUTIONS SHALL BE REVIEWED/APPROVED BY ARCHITECT PRIOR TO RELEASE.
2. ALL EXIT, EMERGENCY & NIGHT LIGHTS (NL) SHALL BE CONNECTED "UNSWITCHED" TO LIGHTING CIRCUIT SERVING ROOM WHERE THEY ARE LOCATED.



2 E2 KEY PLAN
SCALE: 1/32" = 1'-0"

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