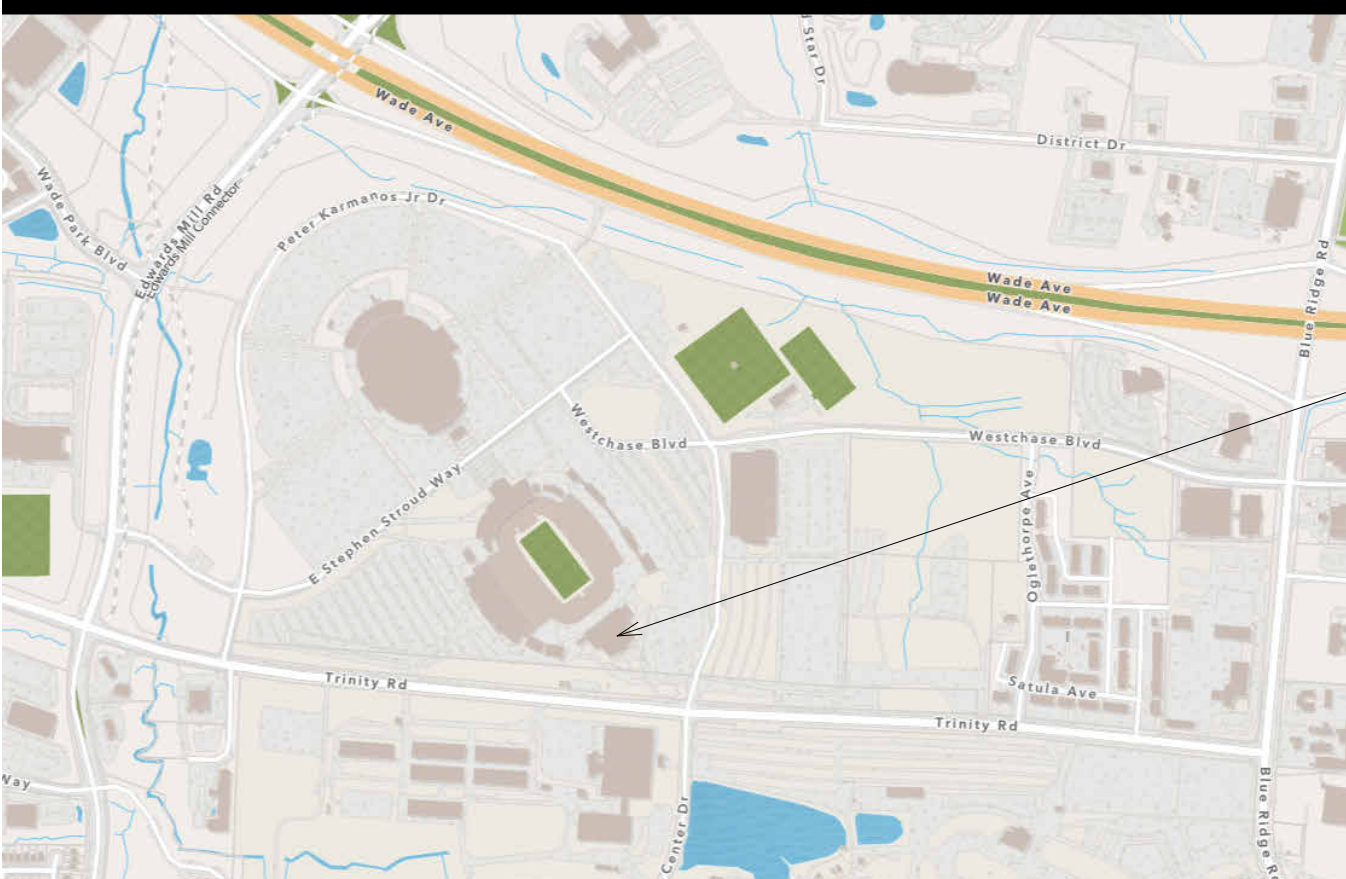


Site Location Map



SITE

Design Team

Architects



cra associates, inc.

architects | engineers | partners

www.cra-ae.com

100 Europa Dr #565 | Chapel Hill, NC 27517 | 919.401.8586

Sports Design / Interiors

HKS, Inc.

2100 E. Cary Street,
STE 100 Richmond, VA 23223
804.644.8400

Engineers:

Optima Engineering

434 Fayetteville Street
STE 2450, Raleigh, NC 27601
919.926.2200

Food Service:

Foodesign

220 N Ames St. Suite 101
Matthews, NC 28105
704.945.6151

General Notes

- THE CONTRACT DOCUMENTS INCLUDE THE WORKING DRAWINGS, ADDENDA, MODIFICATIONS, THE CONDITIONS OF THE CONSTRUCTION CONTRACT, AND SPECIFICATIONS.
- THE WORK WILL CONFORM WITH THE REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION.
- OWNER: NORTH CAROLINA STATE UNIVERSITY (HENCE FORTH REFERRED TO AS OWNER)
- "SIMILAR" MEANS COMPATIBLE CHARACTERISTICS FOR CONDITIONS NOTED. CONTRACTOR TO VERIFY DIMENSIONS AND ORIENTATION.
- "TYPICAL" MEANS IDENTICAL FOR CONDITIONS NOTED.
- DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF ARCHITECT UNLESS NOTED OTHERWISE.
- CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OWNER. THE FINAL STAGING PLAN FOR MATERIAL STORAGE TO BE DETERMINED DURING PRE-CONSTRUCTION MEETING.
- CUT AND FIT COMPONENTS FOR ALTERATIONS OF EXISTING WORK AND INSTALLATION OF NEW WORK. PATCH DISTURBED AREAS TO MATCH ADJACENT MATERIALS AND FINISHES.
- COORDINATE AND PROVIDE BLOCKING/BACKING IN PARTITIONS BEHIND ALL WALL-MOUNTED ITEMS. ALL CONCEALED WOOD TO BE FIRE RETARDANT - TREATED.
- MAKE ALL NECESSARY PROVISIONS FOR ITEMS TO BE FURNISHED OR INSTALLED BY OWNER. PROVIDE PROTECTION FOR THESE PROVISIONS UNTIL COMPLETION OF THE PROJECT. GENERAL CONTRACTOR TO COORDINATE N.C. ITEMS WITH APPROPRIATE TRADES.
- CONTRACTORS SHALL VISIT JOBSITE PRIOR TO DEMOLITION OR CONSTRUCTION IN ORDER TO ACQUAINT THEMSELVES WITH EXISTING CONDITIONS.
- GENERAL CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST IN LOCATIONS OF ANY AND ALL MECHANICAL, TELEPHONE/DATA, ELECTRICAL, FIRE PROTECTION AND PLUMBING EQUIPMENT (TO INCLUDE ALL PIPING, DUCTWORK AND CONDUIT) AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF ABOVE EQUIPMENT ARE PROVIDED. ELEMENTS TO BE EXPOSED OR CONCEALED SHALL BE DETERMINED AND REVIEWED WITH ARCHITECT IN THE FIELD PRIOR TO CONSTRUCTION PROCEEDING.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE PROTECTION OF EXISTING CONSTRUCTION. ANY DAMAGE TO EXISTING AREAS CAUSED BY THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS SHALL BE REPAIRED BY THE GENERAL CONTRACTOR. THE REPAIRS ARE NOT PART OF THIS PROJECT OR CONTRACT AND WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND ABIDING BY THE OWNERS GENERAL REQUIREMENTS.
- SAFETY OF ALL PARTIES PRESENT ON THE JOB SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- EXERCISE EXTREME CARE AND PRECAUTION DURING CONSTRUCTION OF THE WORK TO MINIMIZE DISTURBANCES TO ADJACENT STRUCTURES AND THEIR OCCUPANTS, PROPERTY, PUBLIC THOROUGHFARE, ETC. CONTRACTOR SHALL TAKE PRECAUTIONS AND BE RESPONSIBLE FOR THE SAFETY OF ALL OCCUPANTS FROM CONSTRUCTION PROCEDURES.
- FIRE PROTECTION FACILITIES, INCLUDING ACCESS, MUST BE MAINTAINED DURING DEMOLITION AND CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH APPLICABLE BUILDING CODES, AMENDMENTS, RULES, REGULATIONS, ORDINANCES, LAWS, ORDERS, APPROVALS, ETC., THAT ARE REQUIRED BY GOVERNMENTAL AGENCIES.
- ABBREVIATIONS USED IN REFERRING TO STANDARDS THAT APPLY TO THE WORK ARE NOT LIMITED TO THE FOLLOWING:
 - 19.1. AMERICAN SOCIETY OF TESTING MATERIALS - ASTM
 - 19.2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION - AISC
 - 19.3. AMERICAN WELDING SOCIETY - AWS
 - 19.4. AMERICAN CONCRETE INSTITUTE - ACI
 - 19.5. AMERICAN NATIONAL STANDARDS INSTITUTE - ANSI
 - 19.6. ARCHITECTURAL ALUMINUM MANUFACTURERS ASSOCIATION - AAMA
 - 19.7. ALUMINUM ASSOCIATION, INC. - AA
 - 19.8. CONCRETE REINFORCING STEEL INSTITUTE - CRSI
 - 19.9. NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS - NAAMM
 - 19.10. NATIONAL FIRE PROTECTION ASSOCIATION - NFPA
 - 19.11. NATIONAL WOODWORK MANUFACTURERS ASSOCIATION - NWWA
 - 19.12. AMERICAN WOODWORK INSTITUTE - AWI
- IN THE EVENT OF CONFLICT ON DRAWINGS AND/OR SPECIFICATIONS, CONTRACTOR SHALL PROVIDE THE MOST COSTLY OPTION IN HIS BID.
- DIMENSIONS TAKE PRECEDENCE OVER SCALE. DISCREPANCIES TO BE NOTED AND VERIFIED WITH ARCHITECT.
- COORDINATE DEMOLITION OF EXISTING EQUIPMENT WITH MECHANICAL, ELECTRICAL, PLUMBING CONTRACTORS.
- THE CONTRACTOR SHALL SHUT OFF, DISCONNECT AND CAP OR SEAL UTILITIES AFFECTED BEFORE STARTING DEMOLITION WORK.
- THE CONTRACTOR SHALL PROVIDE FOR TEMPORARY UTILITIES AS DEEMED NECESSARY BY THE OWNER IF NORMAL UTILITY SERVICE TO THE FACILITY IS INTERRUPTED.
- DEMOLISHED MATERIALS SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE WITH FURTHER DISPOSITION AT THE CONTRACTOR'S OPTION, UNLESS NOTED OTHERWISE.
- DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS SHALL BE CONDUCTED TO INSURE PROTECTION OF EXISTING MATERIALS OR PROPERTY TO REMAIN.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING TO ORIGINAL CONDITION ANY REMAINING MATERIALS OR FIXTURES THAT ARE DAMAGED BY DEMOLITION ACTIVITIES.
- CLEAN UP OF DEBRIS SHALL BE DONE ON A DAILY BASIS.
- CONTRACTOR TO PATCH/REPAIR/PREP ALL SURFACES AS REQUIRED TO ACCEPT NEW FINISH.
- GENERAL CONTRACTOR TO BE RESPONSIBLE FOR ANY EQUIPMENT TO BE REMOVED, STORED AND REINSTALLED.
- ONLY NEW ITEMS OF RECENT MANUFACTURE, OF BUILDING STANDARD QUALITY, FREE FROM DEFECTS WILL BE PERMITTED ON THE WORK. REJECTED ITEMS SHALL BE REMOVED IMMEDIATELY FROM THE WORK AND BE REPLACED WITH ITEMS OF THE QUALITY SPECIFIED. FAILURE TO REMOVE REJECTED ITEMS AND EQUIPMENT SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR QUALITY AND CHARACTER OF ITEMS USED NOR FROM ANY OTHER OBLIGATION IMPOSED ON HIM BY THE CONTRACT.
- THE FINISHED WORK SHALL BE FIRM, WELL ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL WITH SMOOTH, CLEAN, UNIFORM APPEARANCE, WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS OR DISCOLORING. JOINTS SHALL BE CLOSE FITTING, NEAT AND WELL SCRIBED. THE FINISH WORK SHALL HAVE NO EXPOSED, UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDS OR UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISIONS FOR EXPANSION, CONTRACTION, AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, SINKING, AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.
- ATTACHMENTS, CONNECTIONS, OR FASTENERS ARE TO BE PROPERLY AND PERMANENTLY SECURED IN CONFORMANCE WITH MANUFACTURERS GUIDELINES AND THE NORTH CAROLINA BUILDING CODE. THE DRAWINGS SHOW ONLY SPECIAL CONDITIONS TO ASSIST CONTRACTOR; THEY DO NOT ILLUSTRATE EVERY SUCH DETAIL.
- NO WORK DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEFICIENT IN ANY REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS WILL BE ACCEPTABLE IN CONSEQUENCE OF OWNERS OR ARCHITECT'S FAILURE TO DISCOVER OR TO POINT OUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION; NOR WILL PRESENCE OF INSPECTORS ON WORK SITE RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR SECURING QUALITY AND PROGRESS OF WORK AS REQUIRED BY CONTRACT. DEFECTIVE WORK REVEALED WITHIN REQUIRED TIME GUARANTEES SHALL BE REPLACED BY WORK CONFORMING WITH INTENT OF CONTRACT. NO PAYMENT, WHETHER PARTIAL OR FINAL, SHALL BE CONSIDERED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.
- MATERIALS AND WORKMANSHIP SPECIFIED BY REFERENCE TO NUMBER, SYMBOL, TITLE OF SPECIFICATION, SUCH AS COMMERCIAL STANDARDS, FEDERAL SPECIFICATIONS, TRADE ASSOCIATION STANDARDS OR OTHER SIMILAR STANDARDS SHALL COMPLY WITH REQUIREMENTS IN LATEST EDITION OR REVISION THEREOF AND WITH ANY AMENDMENT OR SUPPLEMENT THERETO IN AFFECT ON DATE OF ORIGINAL OF THIS PROJECT'S CONTRACT DOCUMENTS. SUCH STANDARDS, EXCEPT AS MODIFIED HEREIN, SHALL HAVE FULL FORCE EFFECTS AS THOUGH PRINTED IN CONTRACT DOCUMENTS.
- CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OR GOVERNING CODES, ORDINANCES, ETC., REQUIRE GREATER QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE.
- CONTRACTOR SHALL ORDER AND SCHEDULE DELIVERY OF MATERIALS IN AMPLE TIME TO AVOID DELAYS IN CONSTRUCTION. IF AN ITEM IS FOUND TO BE UNAVAILABLE, CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY TO ALLOW ARCHITECT A REASONABLE AMOUNT OF TIME TO SELECT A SUITABLE SUBSTITUTION.
- IF AT ANY TIME BEFORE COMMENCEMENT OF WORK, OR DURING PROGRESS THEREOF, CONTRACTOR'S METHODS, EQUIPMENT, OR APPLIANCES ARE INEFFICIENT OR INAPPROPRIATE FOR SECURING QUALITY OF WORK OR RATE OF PROGRESS INTENDED BY CONTRACT DOCUMENTS, OWNER MAY ORDER CONTRACTOR TO IMPROVE THEIR QUALITY OR INCREASE EFFICIENCY. THIS WILL NOT RELIEVE CONTRACTOR OR HIS SURETIES FROM THEIR OBLIGATIONS TO SECURE QUALITY OF WORK AND RATE OF PROGRESS SPECIFIED IN CONTRACT.
- WITH REFERENCE TO CEILINGS, CONTRACTOR SHALL COORDINATE WITH ALL TRADES INVOLVED TO ENSURE THAT CONFLICTS DO NOT OCCUR BETWEEN LIGHT FIXTURES, DUCTWORK, DIFFUSERS, ETC., AND THAT THE CEILING HEIGHTS INDICATED ON DRAWINGS ARE ACHIEVED. PATCH & REPAIR CEILINGS FOLLOWING MEP WORK.
- THE PROJECT SITE AND BUILDING(S) SHALL BE MADE SECURE THROUGHOUT THE ENTIRE CONTRACT DURATION.

Wendell H. Murphy Football Center - Kitchen Renovation

4600 Trinity Road
Raleigh NC 27607

SCO ID# 24-28146-01A Building #135F

CONSTRUCTION DOCUMENT BID SET

06/23/2025

Drawing Index

G0.00	Cover Sheet	E4.01	Roof - Electrical Plan - Demolition
G0.01	Building Code Summary (for reference)	E4.02	Roof - Electrical Plan - New Work
G0.02	Life Safety Plan - Base Bid	E5.01	Enlarged Kitchen Power Plan - New Work
G0.02A	Life Safety Plan - Alternate#2	E5.02	Kitchen Equipment Schedules
G1.01	ADAAG Diagrams	E6.01	Electrical Details
G1.02	ADAAG Diagrams	E6.02	Electrical Details
G2.01	Construction Staging Plan - Base Bid	E7.01	Electrical Diagrams
G2.02	Construction Staging Plan - Alternate#2	E7.02	Panel Schedules
G2.03	Construction Staging Plan - Alternate#3	E7.03	Panel Schedules
		E8.01	Electrical Schedules
A1.01	Demolition Plan - Base Bid	FA0.01	Fire Alarm Legend and Notes
A1.01A	Demolition Plan - Alternate#2	FA1.01	Level 03 - Fire Alarm Plan - Demolition
A1.02	Demolition RCP - Base Bid	FA1.02	Level 03 - Fire Alarm Plan - New Work
A1.02A	Demolition RCP - Alternate#2	FA1.02A	Level 03 - Fire Alarm Plans - Alternate#2
A1.03	Demolition RCP - Level 02		
A1.04	Floor Plan - Base Bid	FP0.01	Fire Protection Legend, Notes, and Details
A1.04A	Floor Plan - Alternate#2	FP1.01	Level 03 - Fire Protection Plan - Demolition
A1.05	Reflected Ceiling Plan - Base Bid	FP1.02	Level 03 - Fire Protection Plan - New Work
A1.05A	Reflected Ceiling Plan - Alternate#2	FP1.02A	Level 03 - Fire Protection Plans - Alternate#1
A1.06	Finish Plan - Base Bid		
A1.06A	Finish Plan - Alternate#2	M0.01	Mechanical Legend and Notes
A1.07	Freezer Location - 1st Floor - Alternate#3	M0.02	Mechanical Schedules
A2.01	Interior Elevations - Base Bid	M0.03	Level 03 - Thermal Zone Diagram
A2.01A	Interior Elevations - Alternate#2	M1.01	Level 03 - Mechanical Plan - Demolition
A2.02	Interior Sections	M1.02	Level 03 - Mechanical Plan - New Work
A2.03	Details	M1.02A	Level 03 - Mechanical Plans - Alternate#2
A2.04	Details	M1.03	Roof - Mechanical Plan - Demolition
A2.05	Partition Types	M1.04	Roof - Mechanical Plan - New Work
A2.06	Plan Details - Columns	M2.01	Level 03 - Mechanical Piping Plan - Demolition
A2.06A	Plan Details - Columns - Alternate#2	M2.02	Level 03 - Mechanical Piping Plan - New Work
A3.01	Casework	M5.01	Mechanical Details
A3.02	Casework		
A3.03	Casework	P0.01	Plumbing Legend, Index, and Notes
A3.04	Casework Details	P1.01	Level 01 - Plumbing Drainage Plan - Demolition
A3.05	Casework Details	P1.02	Level 01 - Plumbing Drainage Plan - New Work
A4.00	Door Schedule & Finish Legend	P1.03	Level 02 - Plumbing Drainage Plan - New Work
A4.00A	Door Schedule & Finish Legend - Alternate#2	P1.04	Level 03 - Plumbing Drainage Plan - Demolition
A5.00	Signage Plan	P1.05	Level 03 - Plumbing Drainage Plan - New Work
		P2.01	Level 03 - Plumbing Supply Plan - Demolition
E0.01	Electrical Legend and Notes	P2.02	Level 03 - Plumbing Supply Plan - New Work
E0.02	Electrical Notes	P4.01	Enlarged Kitchen Plumbing Plans - New Work
E1.01A	Level 01 - Power Plan - Alternate#3	P5.01	Plumbing Details
E2.01	Level 02 - Power Plan - New Work	P5.02	Waste & Vent Riser Diagrams
E3.01	Level 03 - Lighting Plan - New Work	P5.03	Domestic Riser Diagrams
E3.02	Level 03 - Lighting Plan - New Work		
E3.02A	Level 03 - Lighting Plans - Alternate#1/Alternate#2	FS.01	Foodservice Equipment Plan
E3.03	Level 03 - Lighting Photometrics	FS.02	Foodservice Equipment Schedule
E3.04	Level 03 - Lighting Elevations	FS.03	Foodservice Equipment Schedule
E3.05	Level 03 - Power Plan - Demolition	FS.04	Foodservice Plumbing Plan
E3.06	Level 03 - Power Plan - New Work	FS.05	Foodservice Electrical Plan
E3.06A	Level 03 - Power Plans - Alternate#1/Alternate#2	FS.06	Foodservice Cold Storage Details
E3.07	Level 03 - Equipment Connections Plan - New Work	FS.07	Foodservice Exhaust Hood Details
E3.08	Level 03 - Special Systems Plan - New Work	FS.08	Foodservice Equipment Details
E3.08A	Level 03 - Special Systems Plan - Alternate#1		



Architect
CRA Associates, Inc.
100 Europa Drive, Suite 565
Chapel Hill, NC 27517

Sports Design / Interiors

HKS, Inc.
2100 E. Cary Street, Suite 100
Richmond, VA 23223

Structural

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5430 Wade Park Blvd., Suite 400
Raleigh, NC 27601

MEP/FP

Optima Engineering
434 Fayetteville Street, Suite 2450
Raleigh, NC 27601

Food Service

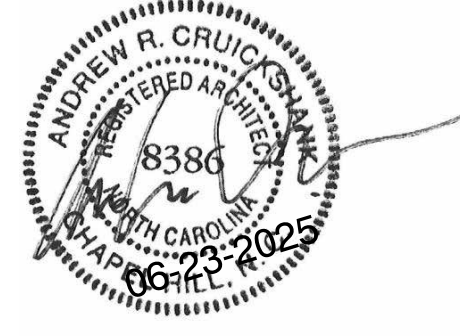
Foodesign
220 N Ames St., Suite 101
Matthews, NC 28105



**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F

seal/signature



rev date description

The use of these plans and specifications shall be restricted to the original site purpose for which they were prepared and publication thereof is expressly limited to such use. Re-use, reproduction, modification, or publication by any method, in whole or in part, is prohibited and the recipient shall defend, indemnify and hold the architect harmless from and against any losses, damages, costs, and expenses, including reasonable attorney's fees, arising therefrom. This and all ownership rights to the plans and specifications remain in the architect without prejudice. It is to be returned upon request to the architect. Any use, including visual contact, with these plans and specifications shall constitute prima facie evidence of acceptance of the foregoing.

date	06/23/25
phase	CD
issued for	BID
project number	2308

Cover Sheet

sheet number

G0.00

Building Code Summary

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Kitchen Renovation - Murphy Building
Address: 4600 Trinity Road, Raleigh, NC Zip Code 27607
Owner/Authorized Agent: Bosa Grauevic Phone #: (919) 513-0223 E-Mail: bgrature@ncsu.edu
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County State

LEAD DESIGN PROFESSIONAL: Andrew R. Cruickshank, AIA

DESIGNER:	FIRM:	NAME:	LICENSE #:	TELEPHONE #:	EMAIL:
Architectural:	CRA Associates	Andrew R. Cruickshank	8386	(919) 401-8586	andyc@cra-ac.com
Civil:					
Electrical:	Optima Engineering	Morgan K. Guter	048210	(919) 926-2211	mguter@optimaingineering.com
Fire Alarm:	Optima Engineering	Morgan K. Guter	048210	(919) 926-2211	mguter@optimaingineering.com
Plumbing:	Optima Engineering	Daniel A. Revilla	043866	(704) 927-1786	drevilla@optimaingineering.com
Mechanical:	Optima Engineering	Thomas A. Lunden	040316	(704) 926-2214	tlunden@optimaingineering.com
Fire Protection:	Optima Engineering	Daniel A. Revilla	043866	(704) 927-1786	drevilla@optimaingineering.com
Food Service:	Foodesign	John Boga	1977	(704) 545-4151	jrboga@foodesignassociates.com
Structural:					
Retaining Walls >5' High:					

2018 NC CODE FOR: New Construction Addition Renovation
1st Time Interior Completion
Shell/Core
Phased Construction - Shell/Core
Renovation

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

CONSTRUCTED:(date) 2003 ORIGINAL OCCUPANCY(S) (Ch. 3): A3
RENOVATED: (date) CURRENT OCCUPANCY(S) (Ch. 3):
RISK CATEGORY (table 1604.5) Current: I II III IV
Proposed: I II III IV

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
(check all that apply) I-B II-B III-B V-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes (Primary) Flood Hazard Area: No Yes
Special Inspections Required: No Yes

2018 NC Administrative Code and Policies Appendix B for Building

GROSS BUILDING AREA

FLOOR	EXISTING (SF)	NEW (SF)	RENO/ALTER (SF)	SUB-TOTAL
First	31,935	0	0	31,935
Second	29,802	0	0	29,802
Third	24,492	0	9,419	24,492
Fourth	17,025	0	0	17,025
TOTAL	103,254	0	0	103,254

ALLOWABLE AREA
Primary Occupancy Classification:
Assembly A-1 A-2 A-3 A-4 A-5
Business (Fourth Floor)
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 Condition I-2 I-3 I-4
I-1 Condition I-2 I-3 I-4 I-5
I-1 Condition I-2 I-3 I-4 I-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):
Special Uses (Chapter 4 - List Code Sections):
Special Provisions: (Chapter 5 - List Code Sections):
Mixed Occupancy: No Yes Separation: 2 Hr. Exception:
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.
Actual Area of Occupancy A + Actual Area of Occupancy B
Allowable Area of Occupancy A Allowable Area of Occupancy B ≤ 1
+ + + ≤ 1.00

2018 NC Administrative Code and Policies Appendix B for Building

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ¹ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{3,4}
1	Assembly	31,935	UL		UL
2	Assembly	29,802	UL		UL
3	Assembly	24,492	UL		UL
4	Business	17,025	UL		UL

¹ Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = ____ (F)
b. Total Building Perimeter = ____ (P)
c. Ratio (F/P) = (F/P) = ____ (P)
d. W = Minimum width of public way = ____ (W)
e. Percent of frontage increase 1 = [F/P - 0.25] x W/30 = ____ (%)
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
⁵ Frontage increase is based on the un sprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	180'	63'-4"	
Building Height in Stories (Table 504.4)	12	4	

Provide code reference if the "Show 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

2018 NC Administrative Code and Policies Appendix B for Building

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/REDUCTIONS)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		2	2				
Bearing Walls							
Exterior		N/A					
North							
East							
West							
South							
Interior		N/A					
Nonbearing 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		0	0				
Floor Construction Including supporting beams and joists		2	2				
Floor Ceiling Assembly		2	2				
Column Supporting Floors		2	3		UL X772		
Roof Construction, including supporting beams and joists		1	1		UL P732		
Roof Ceiling Assembly		1	1				
Column Supporting Roof		1	1				
Shaft Enclosures - Elev		2	2				
Shaft Enclosures - Other		2	2				
Corridor Separation		0	0				
Occupancy/Fire Barrier Separation		2	2				
Party/Fire Wall Separation			N/A				
Smoke Barrier Separation			N/A				
Smoke Partition			N/A				
Townhouse Dwelling Unit/Sleeping Unit Separation			N/A				
Incidental Use Separation		1	1				

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES)	DEGREES OF OPENINGS PROTECTION (TABLE 703.3)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30		No Limit	No Limit

2018 NC Administrative Code and Policies Appendix B for Building

LIFE SAFETY SYSTEM REQUIREMENTS
(WORK INVOLVES NO INCREASE IN OCCUPANT LOAD OR CHANGES TO EGRESS PATHS OR EXITS)
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 #: G002
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 types 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 & 2006.3.2(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 and supporting construction for a fire barrier/fire partition/smoke barrier.
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 1-2 (407.5)
Note any code exceptions or table notes that may have been utilized regarding the items above

Section/Table/Note	Title

ACCESSIBLE DWELLING UNITS
(SECTION 1107)
(NOT APPLICABLE)

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

2018 NC Administrative Code and Policies Appendix B for Building

ACCESSIBLE PARKING
(SECTION 1106)
(EXISTING PARKING LOT)

TYPE OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# FOR ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
Front						
Total						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) NO CHANGE SINCE OCCUPANCY COUNT IS DECREASED												
USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS		
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE	
SPACE	EXIST'G											
	NEW											
	REQ'D											

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

2018 NC Administrative Code and Policies Appendix B for Building

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation Code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.
Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide Code or Statutory reference):

ENERGY SUMMARY
Climate Zone: 3A 4A 5A
Method of Compliance: Energy Code Performance Prescriptive
ASHRAE 90.1 Performance (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:

Exterior Walls
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:

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

2018 NC Administrative Code and Policies Appendix B for Building

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN

SEISMIC INFORMATION:
Aa = 0.050
Av = 0.075
Seismic Hazard Exposure Group II
Seismic Performance Category B

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(SEE SHEET M0.1 FOR MECHANICAL DESIGN SUMMARY)

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(SEE SHEET E1.0 FOR ELECTRICAL DESIGN SUMMARY)

2018 NC Administrative Code and Policies Appendix B for Building



Architect
CRA Associates, Inc.
100 Europa Drive, Suite 565
Chapel Hill, NC 27517

Sports Design / Interiors
HKS, Inc.
2100 E. Cary Street, Suite 100
Richmond, VA 23223

Structural
Bennett & Pless
5430 Wade Park Blvd., Suite 400
Raleigh, NC 27601

MEP/FP
Optima Engineering
434 Fayetteville Street, Suite 2450
Raleigh, NC 27601

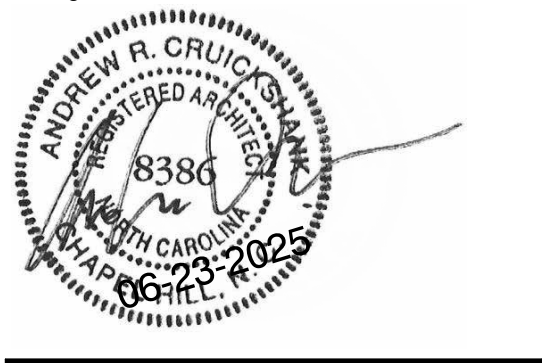
Food Service
Foodesign
220 N Ames St., Suite 101
Matthews, NC 28105



Wendell H. Murphy
Football Center -
Kitchen Renovation

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F

seal/signature



rev date description

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date 06/23/25
phase CD
issued for BID
project number 2308

Building Code
Summary (for
reference)

sheet number

G0.01

Architect
CRA Associates, Inc.
100 Europa Drive, Suite 565
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Sports Design / Interiors
HKS, Inc.
2100 E. Cary Street, Suite 100
Richmond, VA 23223

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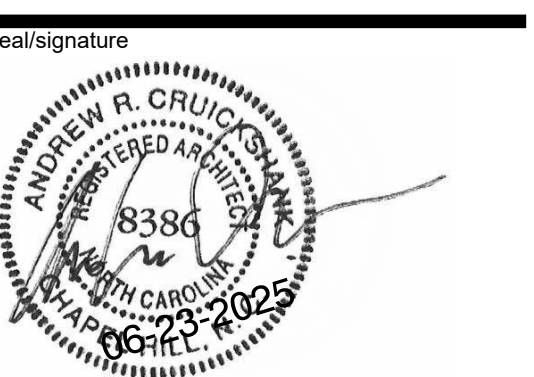
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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #: 135F



rev date description

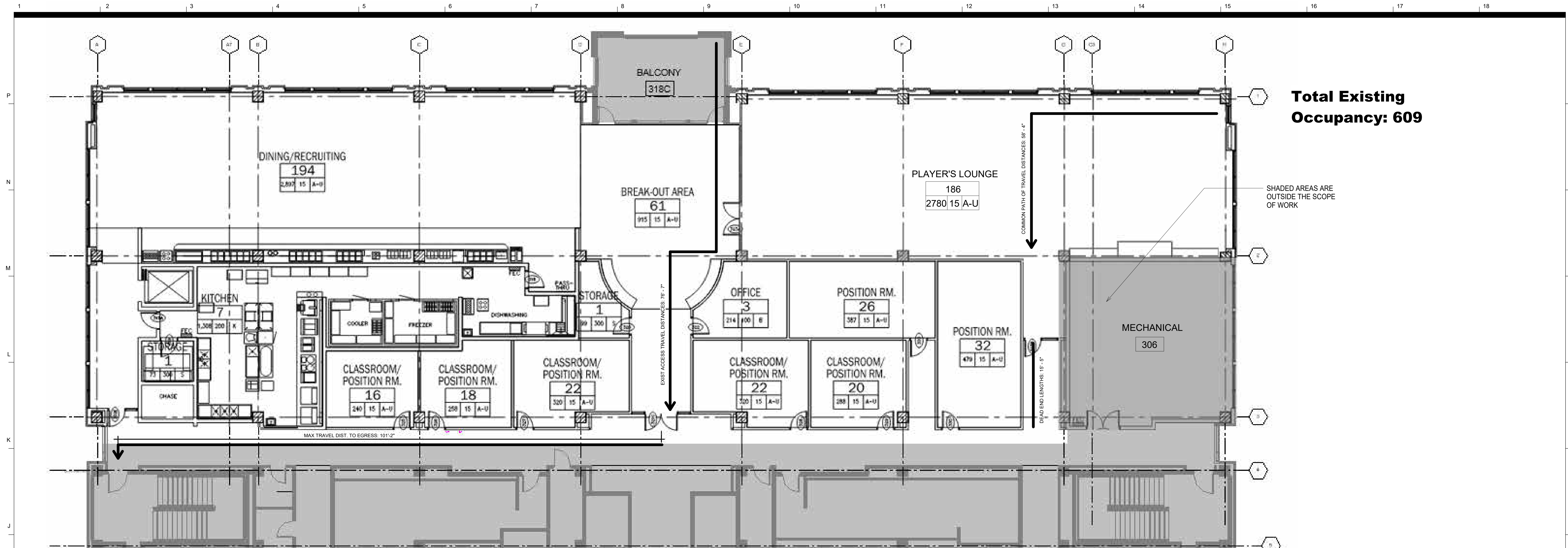
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project number 2308

**Life Safety Plan -
Base Bid**

sheet number

G0.02



Existing Floor Plan

Scale: 1/8"=1'-0"



New Floor Plan - Base Bid

Scale: 1/8"=1'-0"

Legend

- Kitchen Area
- Dining Area
- EXISTING 2-HR FIRE BARRIER

EGRESS COMPONENT INFORMATION

DOOR: TYPE OF COMPONENT, ACTUAL OCCUPANT LOAD, MAX OCCUPANT LOAD, CLEAR WIDTH (INCHES), INDICATES PANIC HARDWARE

REQ. EGRESS WIDTH PER OCCUPANT SERVED
STAIRWAYS: 0.30' OTHER: 0.20'
(AS PER NCBC SECTION 1005.1)

ROOM OCCUPANCY INFORMATION

STORAGE 2: ROOM NAME, CALCULATED OCCUPANT LOAD, OCCUPANCY CLASSIFICATION, S.F. PER OCCUPANT, ACTUAL SQUARE FOOTAGE

OCCUPANCY CLASSIFICATION KEY

- A-U ASSEMBLY - UNCONCENTRATED
- B BUSINESS
- K KITCHEN
- S STORAGE

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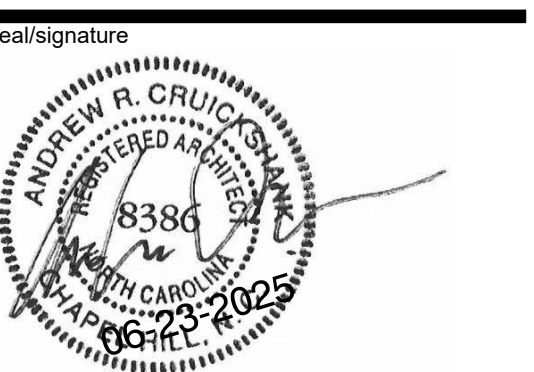
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Code: 42324 Item: 305
NCSU Building #:135F



rev date description

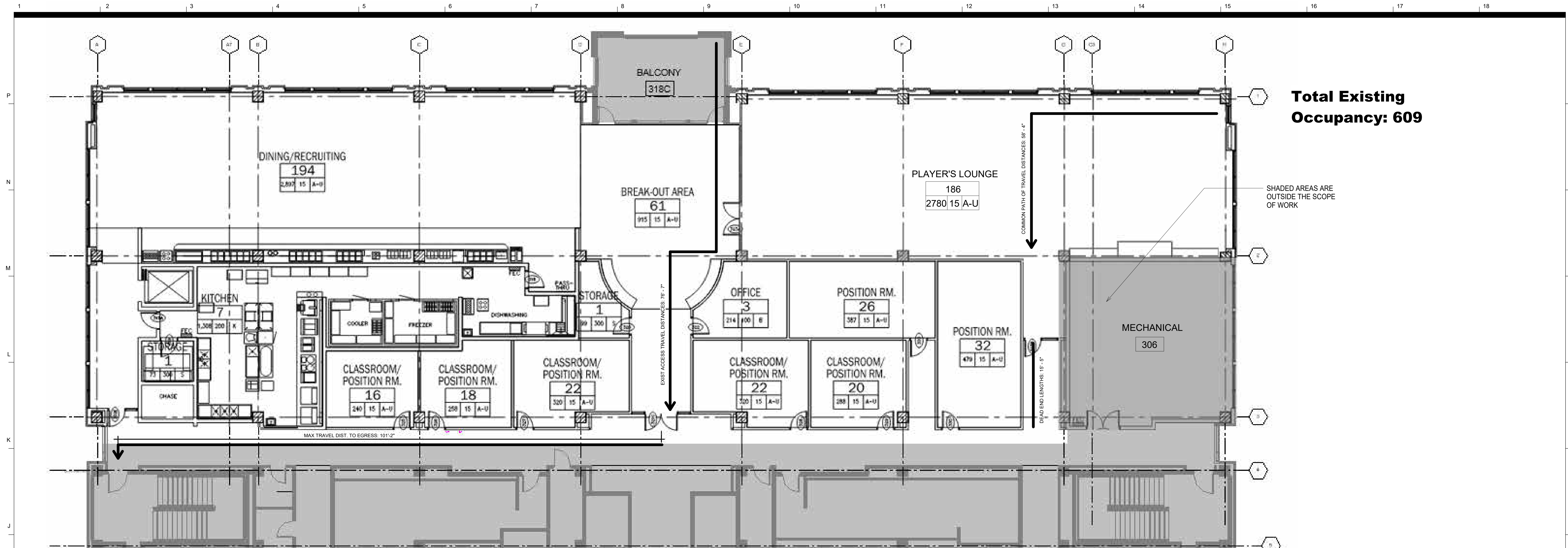
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date 06/23/25
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project number 2308

Life Safety Plan -
Alternate#2

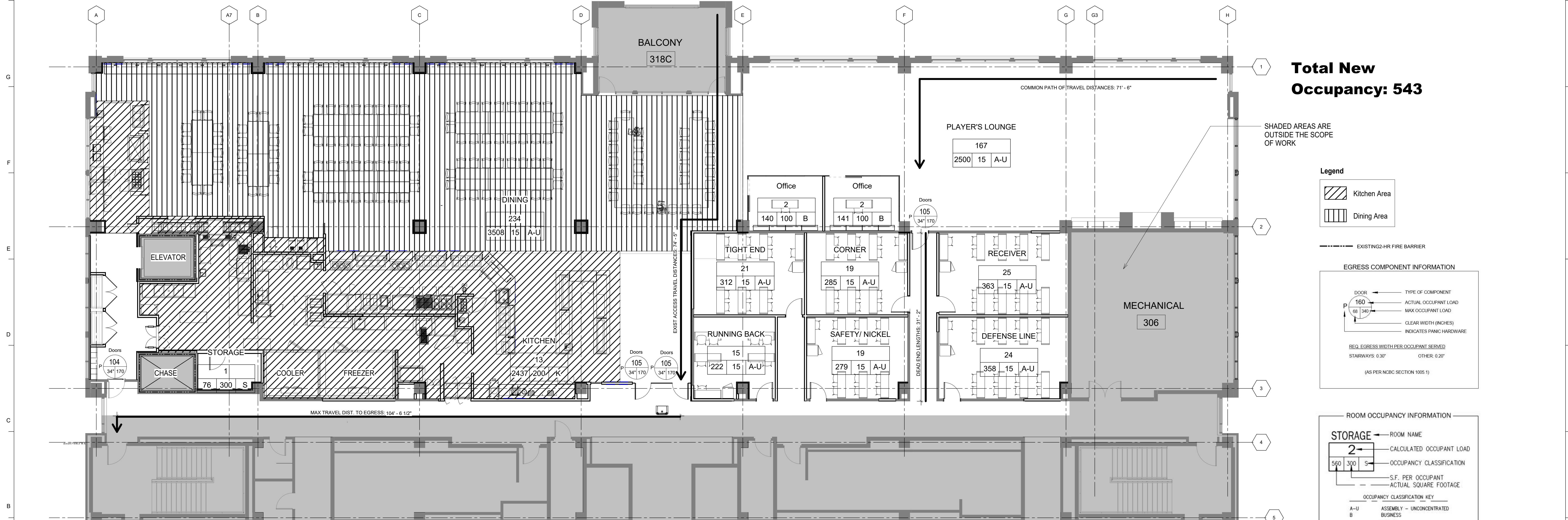
sheet number

G0.02A



Existing Floor Plan

Scale: 1/8"=1'-0"



New Floor Plan - Alternate#2

Scale: 1/8"=1'-0"

Legend

- Kitchen Area
- Dining Area
- EXISTING 2-HR FIRE BARRIER

EGRESS COMPONENT INFORMATION

DOOR 160
ACTUAL OCCUPANT LOAD
MAX OCCUPANT LOAD
CLEAR WIDTH (INCHES)
INDICATES PANIC HARDWARE

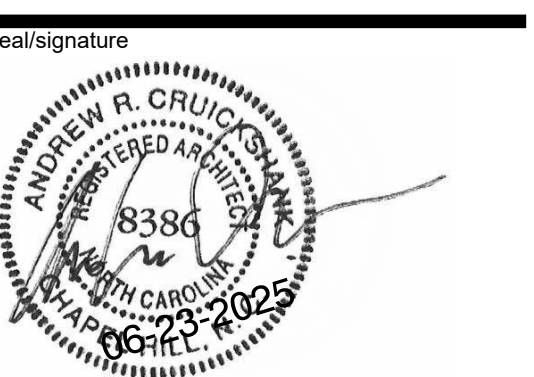
REQ. EGRESS WIDTH PER OCCUPANT SERVED
STAIRWAYS: 0.30' OTHER: 0.20'
(AS PER NCBC SECTION 1005.1)

ROOM OCCUPANCY INFORMATION

STORAGE 2
CALCULATED OCCUPANT LOAD
OCCUPANCY CLASSIFICATION
S.F. PER OCCUPANT
ACTUAL SQUARE FOOTAGE

OCCUPANCY CLASSIFICATION KEY

- A-U ASSEMBLY - UNCONCENTRATED
- B BUSINESS
- K KITCHEN
- S STORAGE



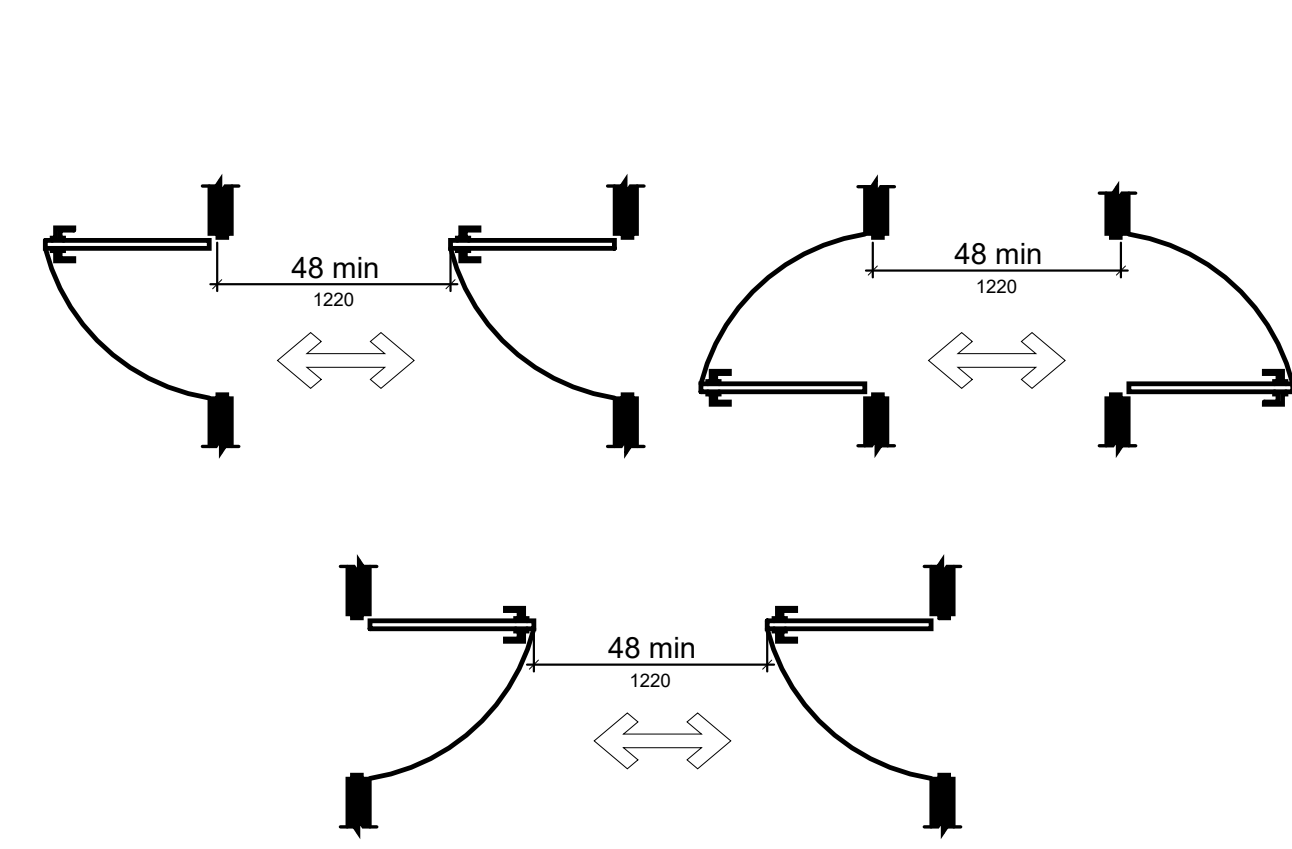
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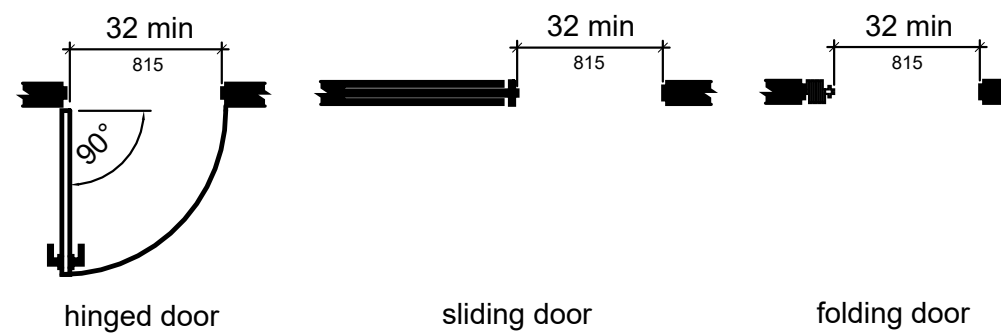
date 06/23/25
phase CD
issued for BID
project number 2308

ADAAG Diagrams

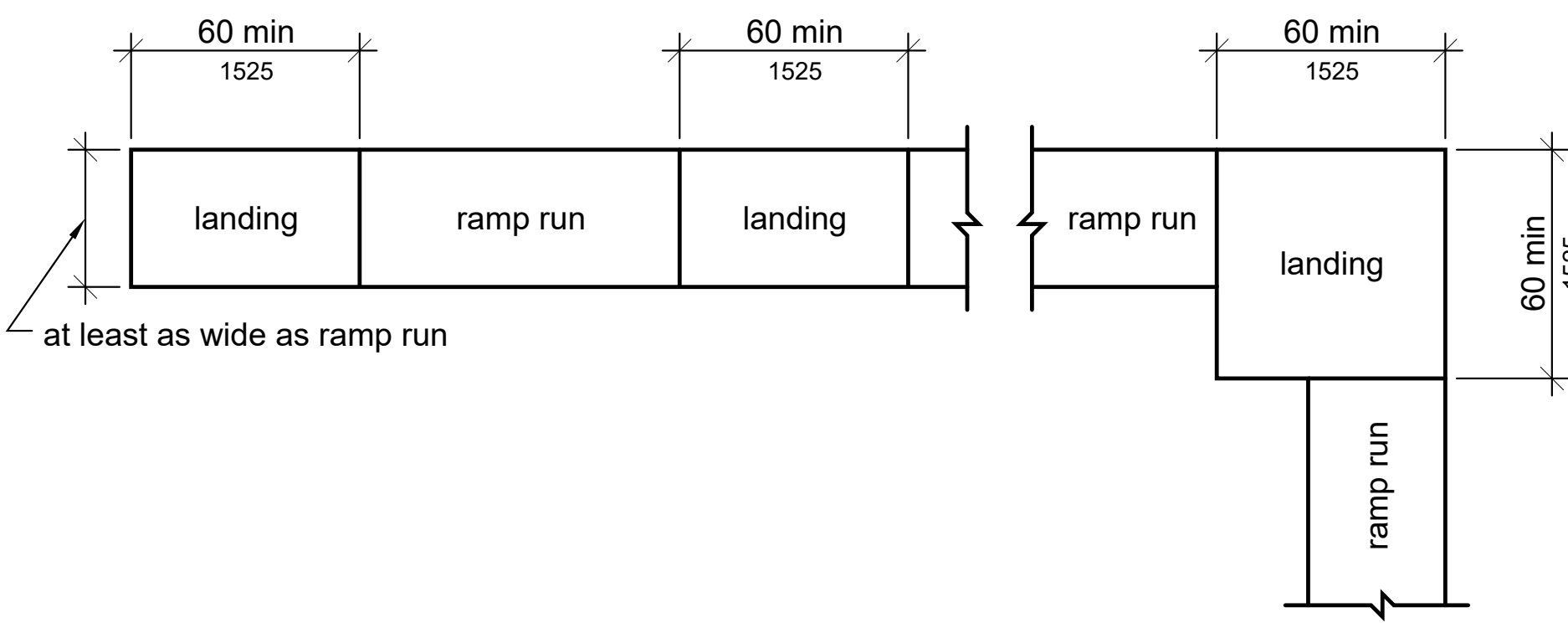
sheet number



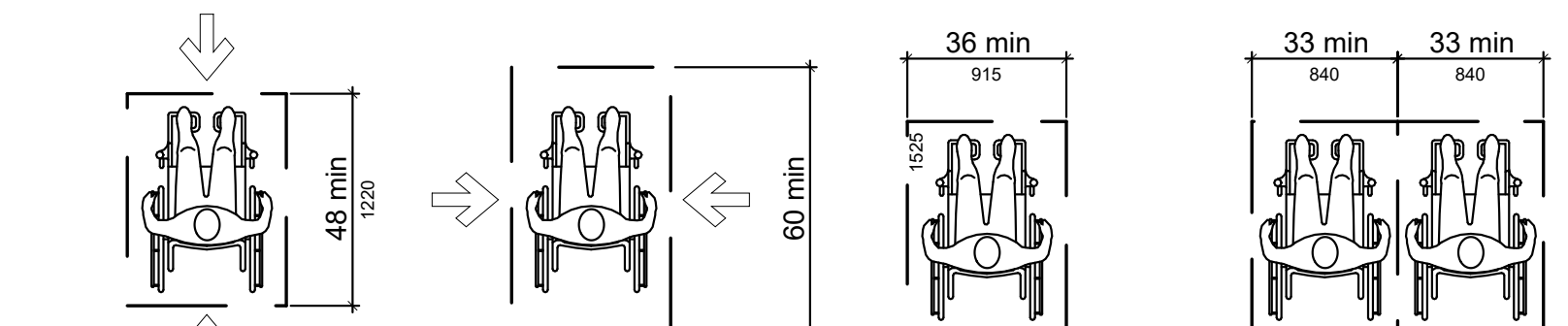
23 DOORS & GATES IN SERIES - DISTANCES
NTS



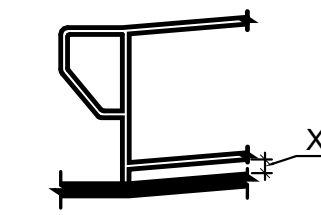
22 CLEAR WIDTH OF DOORWAYS
NTS



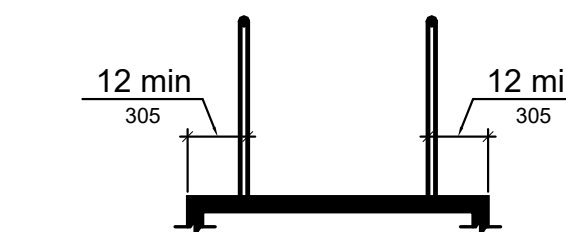
21 RAMP LANDINGS
NTS



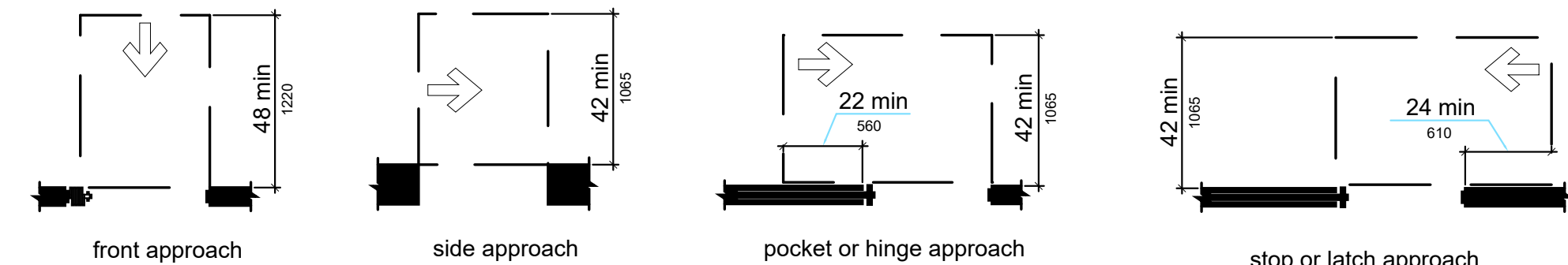
25 SIZE OF WHEELCHAIR SPACES
NTS



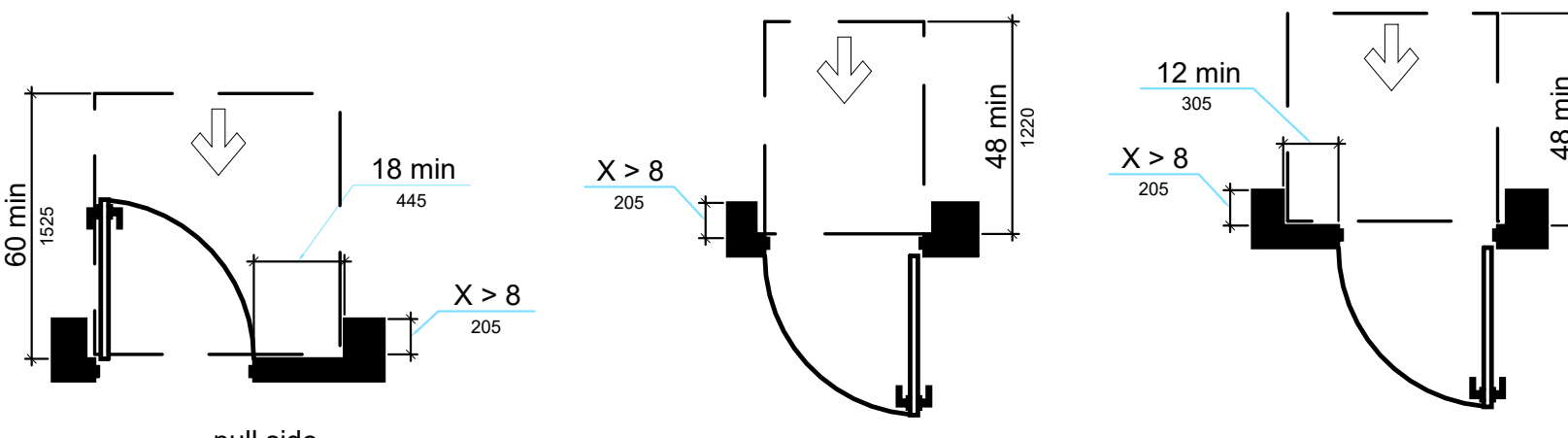
24 BARRIER EDGE PROTECTION
NTS



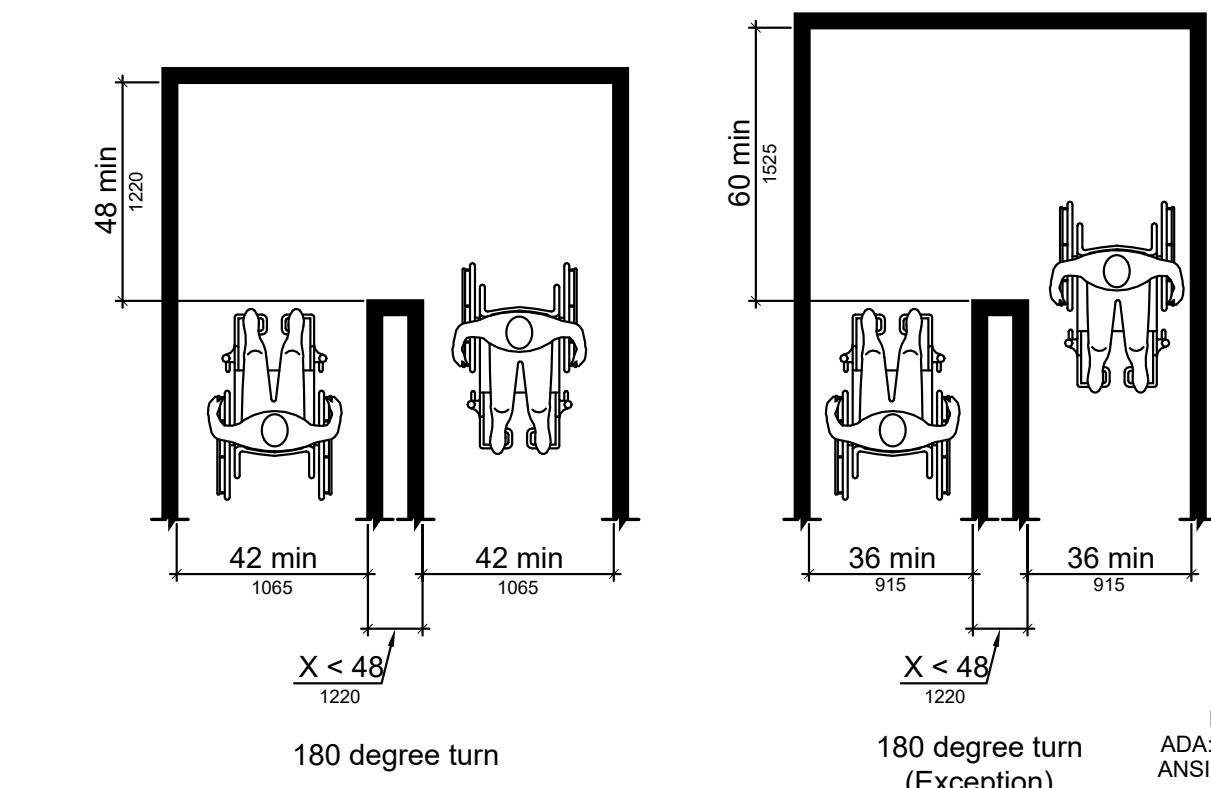
20 EXTENDED FLOOR EDGE PROTECTION
NTS



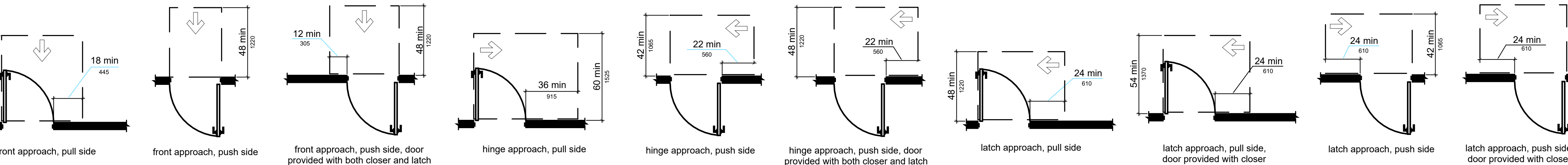
19 MANEUVERING CLEARANCES @ DOORWAYS W/O DOORS, SLIDING DOORS, GATES & FOLDING DOORS
NTS



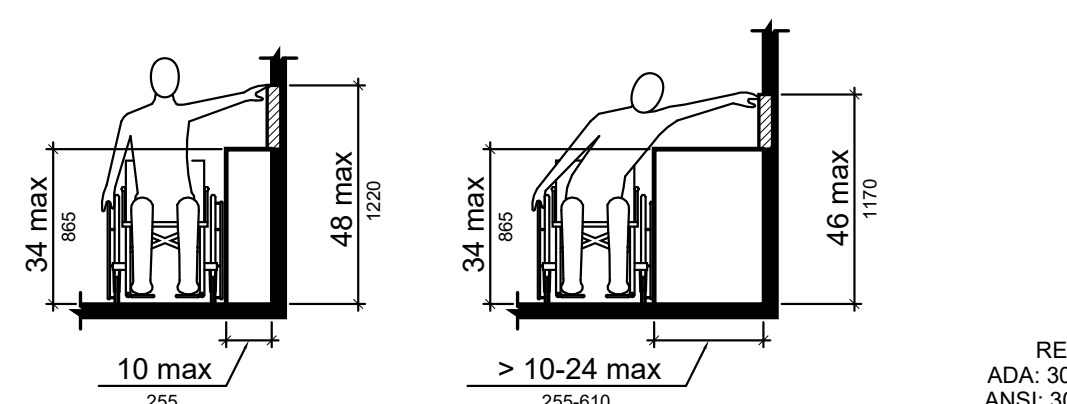
18 MANEUVERING CLEARANCES AT RECESSED DOORS & GATES
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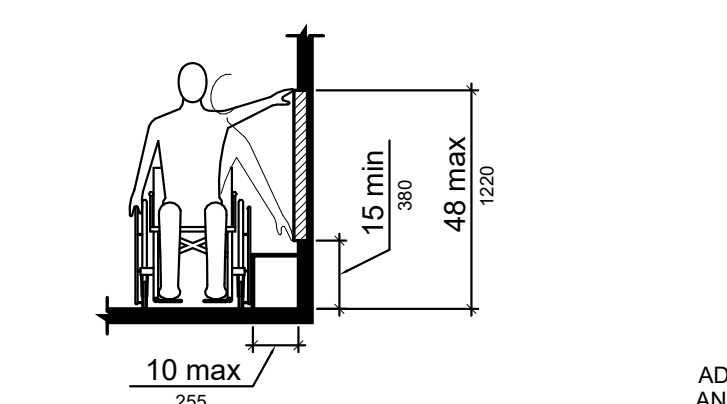
16 CLEAR WIDTH AT 180 DEGREE TURN
NTS



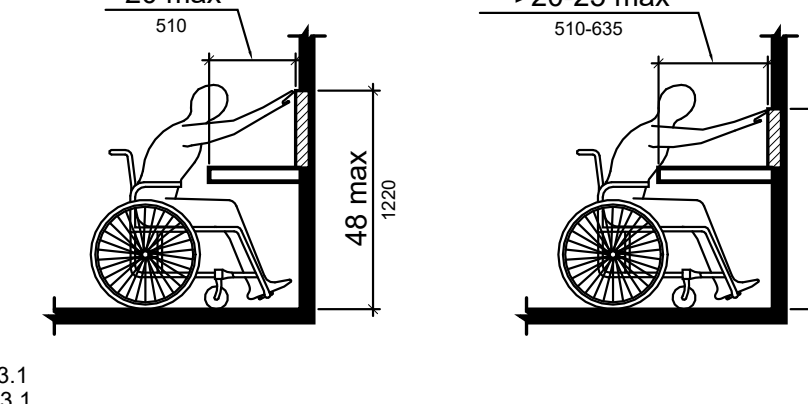
17 MANEUVERING CLEARANCES @ MANUAL SWINGING DOORS & GATES
NTS



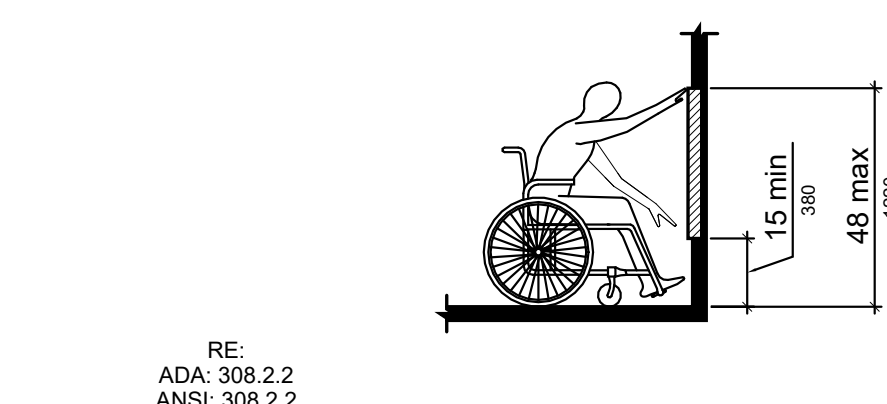
14 OBSTRUCTED HIGH SIDE REACH
NTS



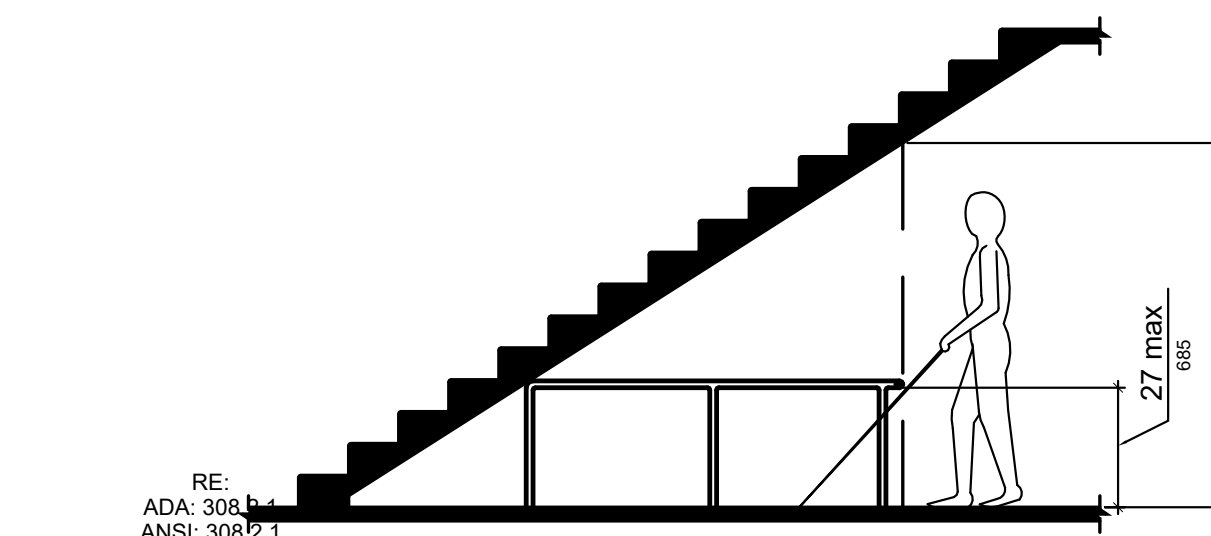
13 UNOBSTRUCTED SIDE REACH
NTS



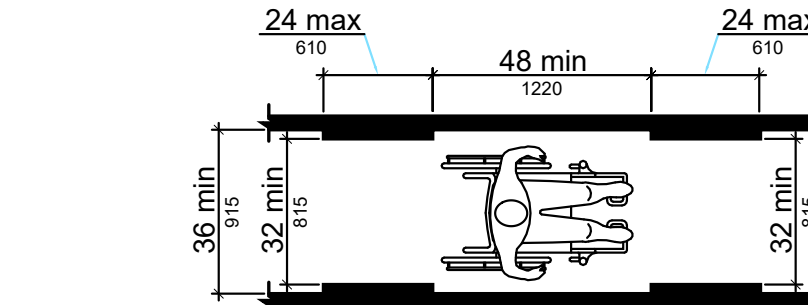
12 OBSTRUCTED HIGH FORWARD REACH
NTS



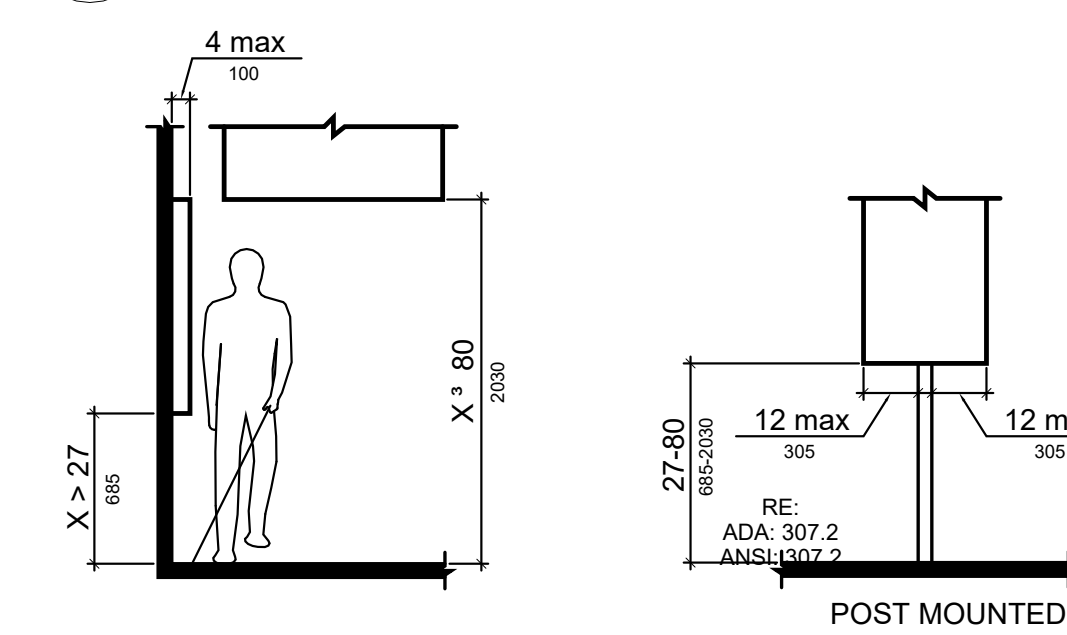
11 UNOBSTRUCTED FORWARD REACH
NTS



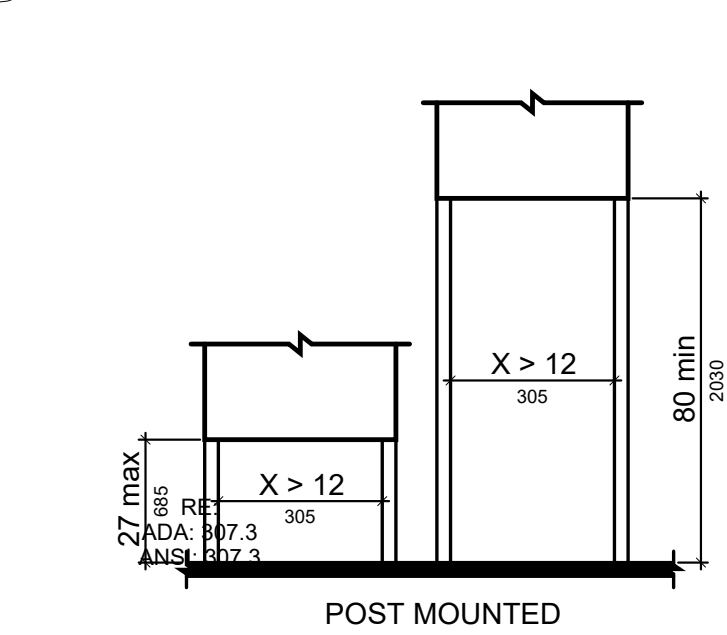
10 VERTICAL CLEARANCE
NTS



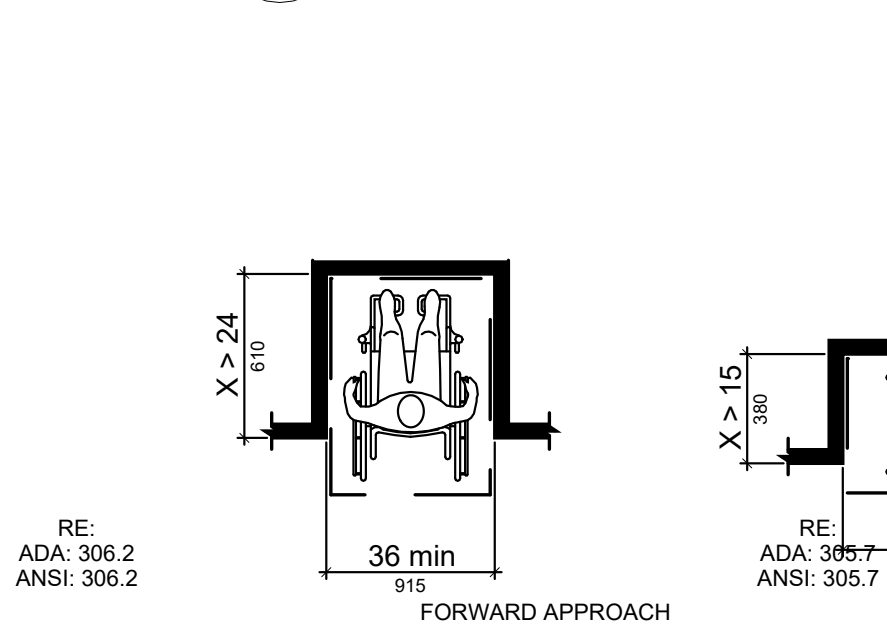
15 CLEAR WIDTH OF ACCESSIBLE ROUTE
NTS



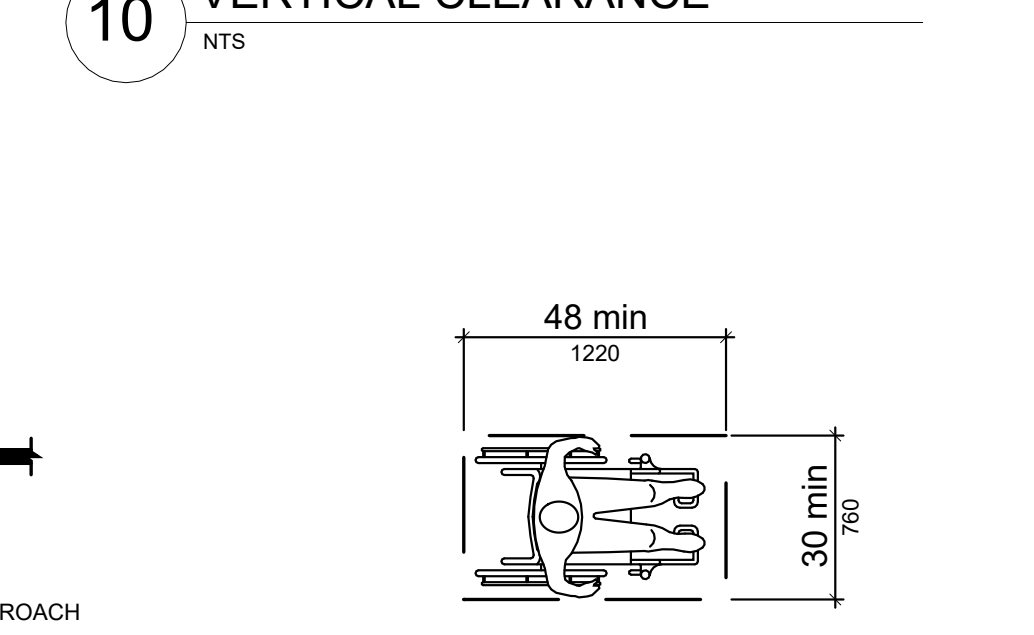
9 LIMITS OF PROTRUDING OBJECTS
NTS



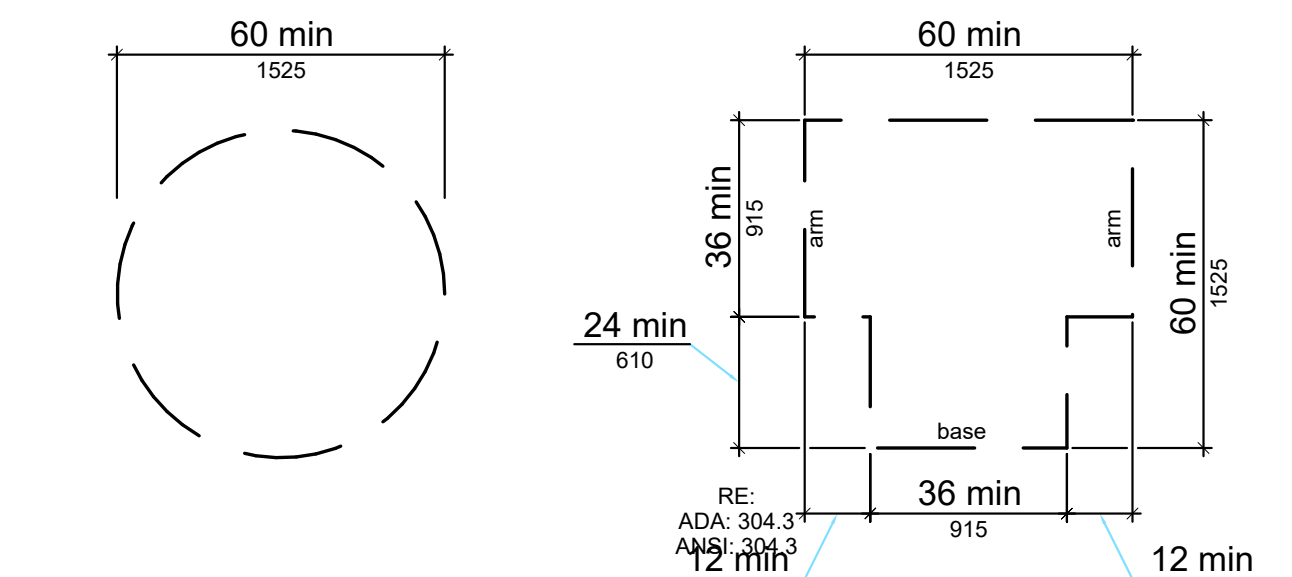
8 TOE CLEARANCES
NTS



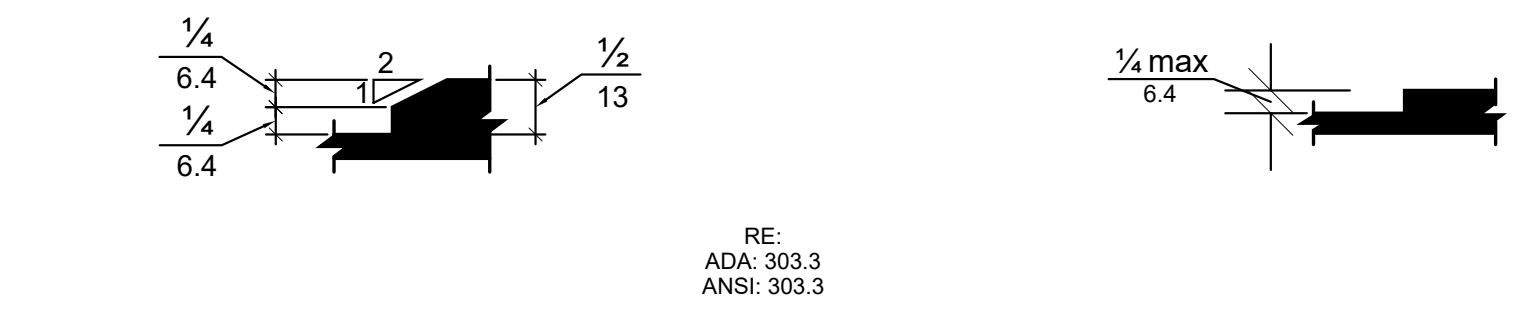
7 ALCOVE CLEARANCES
NTS



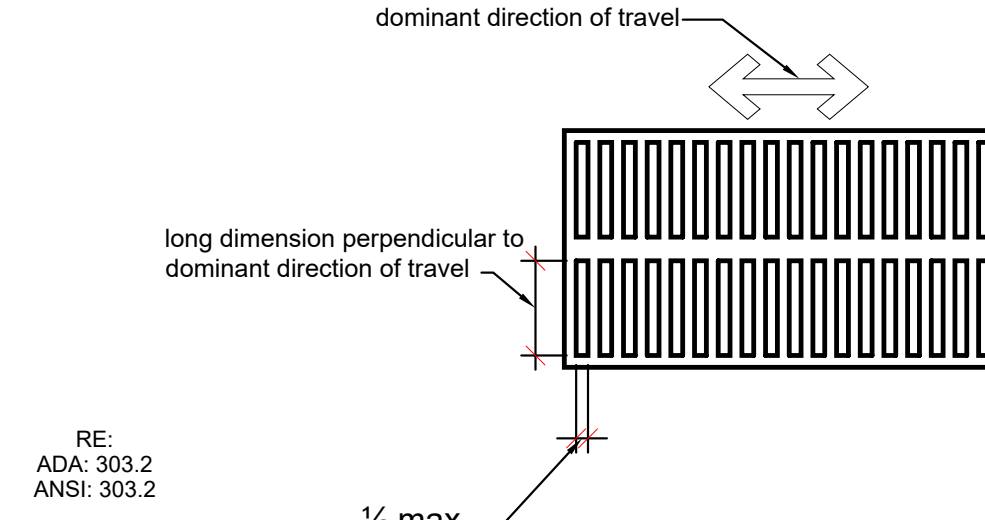
6 CLEAR FLOOR OR GROUND SPACE
NTS



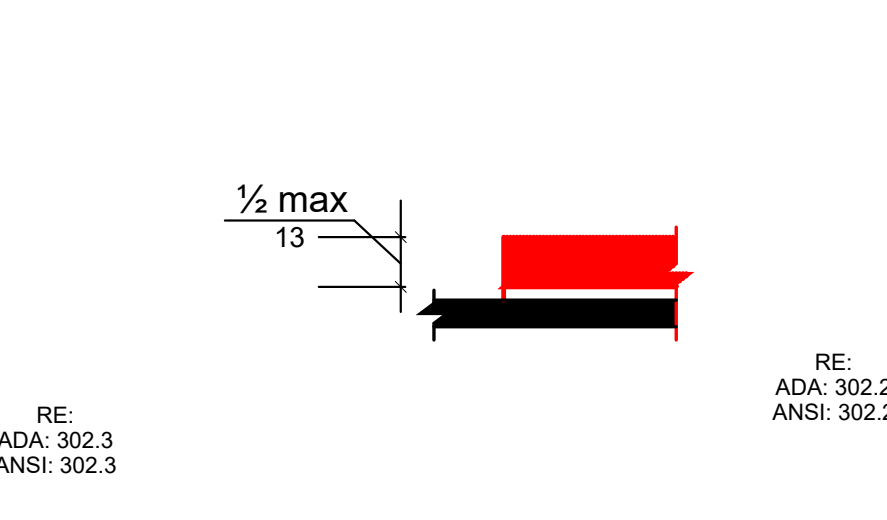
5 WHEELCHAIR TURNING SPACE
NTS



4 VERTICAL CHANGE IN LEVEL
NTS



3 VERTICAL CHANGE IN LEVEL
NTS



2 FLOOR SURFACE OPENINGS
NTS

NOTE: THE REQUIREMENTS SHOWN ON THIS SHEET SUPERSEDE ALL OTHER DRAWINGS. CONTRACTOR SHALL NOTIFY ARCHITECT OF DISCREPANCIES. ARCHITECT'S APPROVAL OF SHOP DRAWINGS DOES NOT ABSOLVE CONTRACTOR'S RESPONSIBILITY FOR ADA COMPLIANCE.

Convention	Description
36 915	dimension showing English units (in inches unless otherwise specified) above the line and SI units (in millimeters unless otherwise specified) below the line
6 150	dimension for small measurements
33-36 840-915	dimension showing a range with minimum - maximum
min	minimum
max	maximum
>	greater than
≥	greater than or equal to
<	less than
≤	less than or equal to
—	boundary of clear floor space or maneuvering clearance
—	centerline
—	a permitted element or its extension
→	direction of travel or approach
—	a wall, floor, ceiling or other element cut in section or plan

Architect
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5430 Wade Park Blvd., Suite 400
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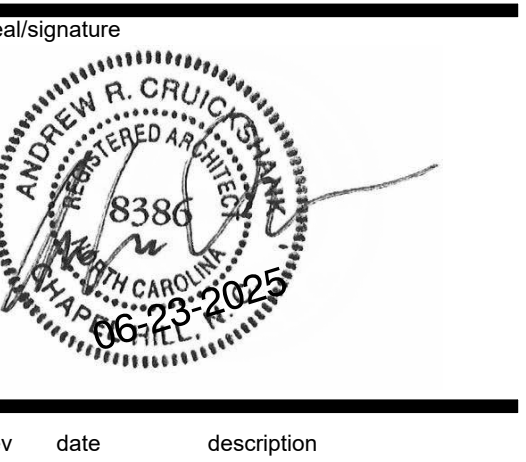
MEP/FP
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Wendell H. Murphy
Football Center -
Kitchen Renovation

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #135F

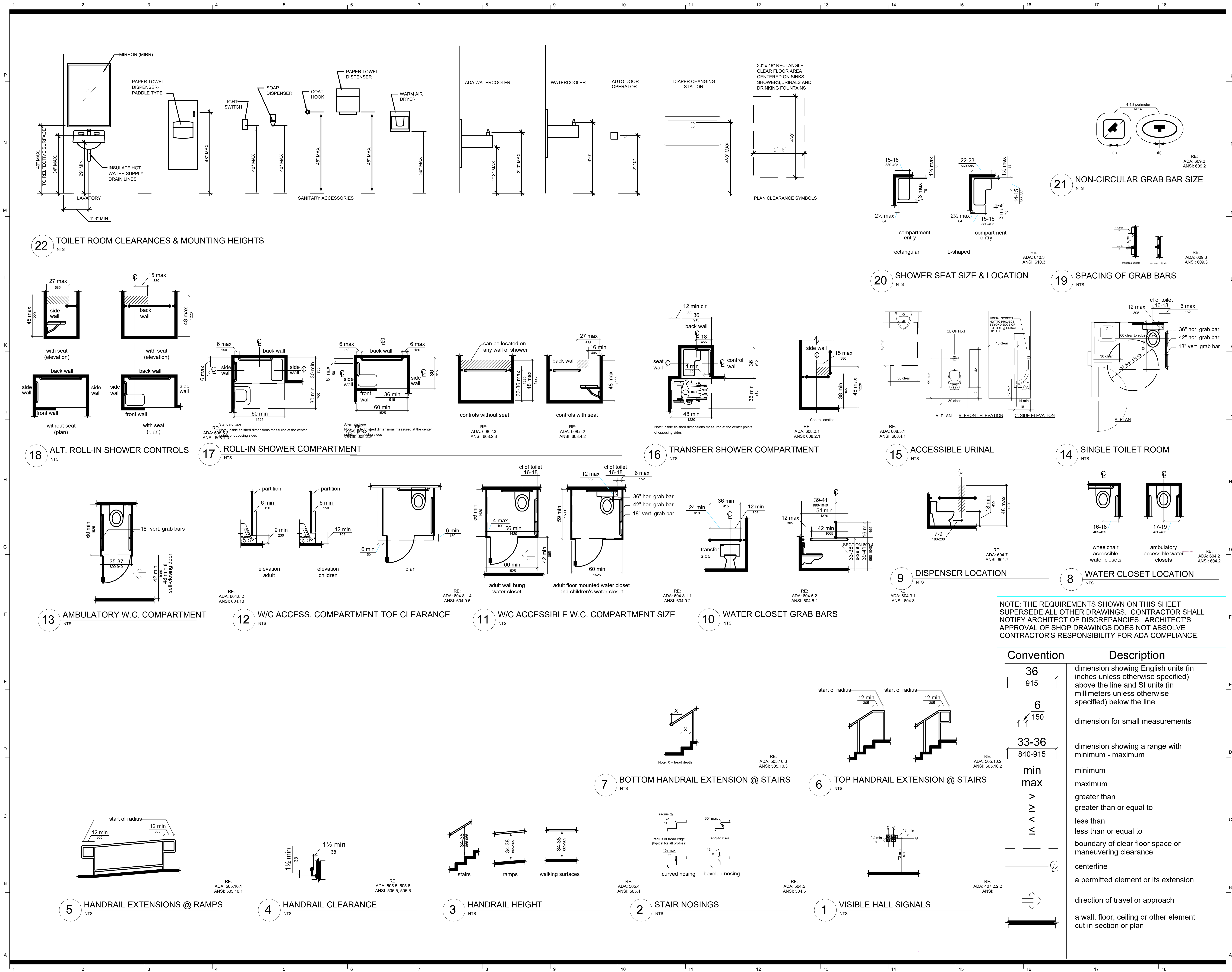


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date	06/23/25	
phase	CD	
issued for	BID	
project number	2308	

ADAAG Diagrams

sheet number

G1.02



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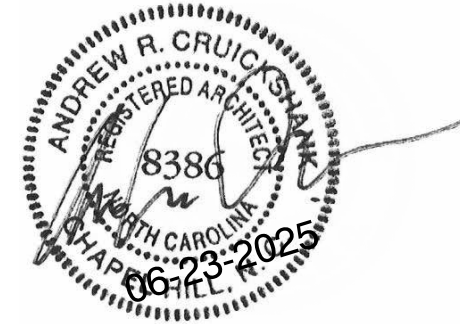
Food Service
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NCSU Building #:135F

seal/signature



rev date description

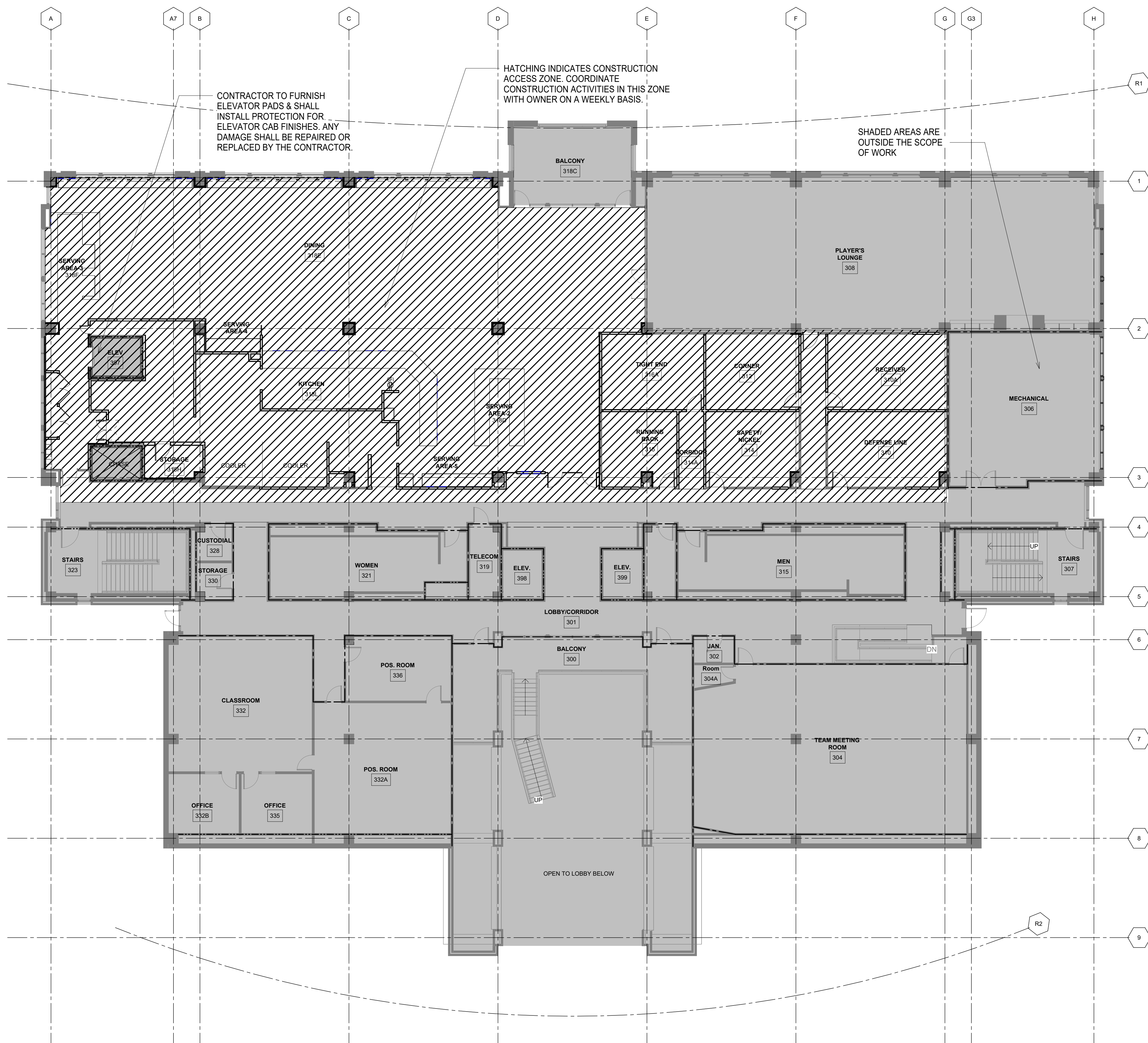
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phase CD
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project number 2308

**Construction
Staging Plan - Base
Bid**

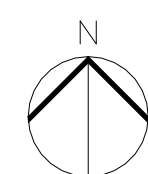
sheet number

G2.01



1 LEVEL 03 - CONSTRUCTION STAGING PLAN - Base Bid
3/32" = 1'-0"

RATED WALL LEGEND	
	EXISTING 2-HR FIRE BARRIER
	EXISTING 1-HR FIRE BARRIER



0 8' - 0" 16' - 0"
SCALE 1/8" = 1'-0"

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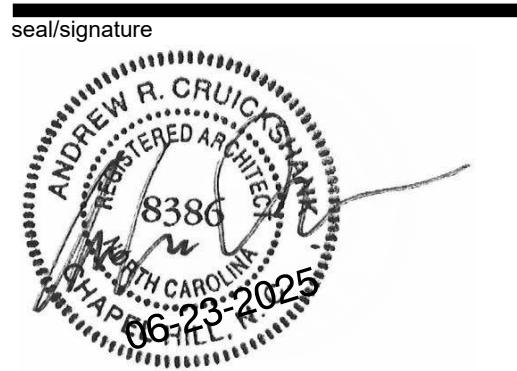
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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F



rev	date	description
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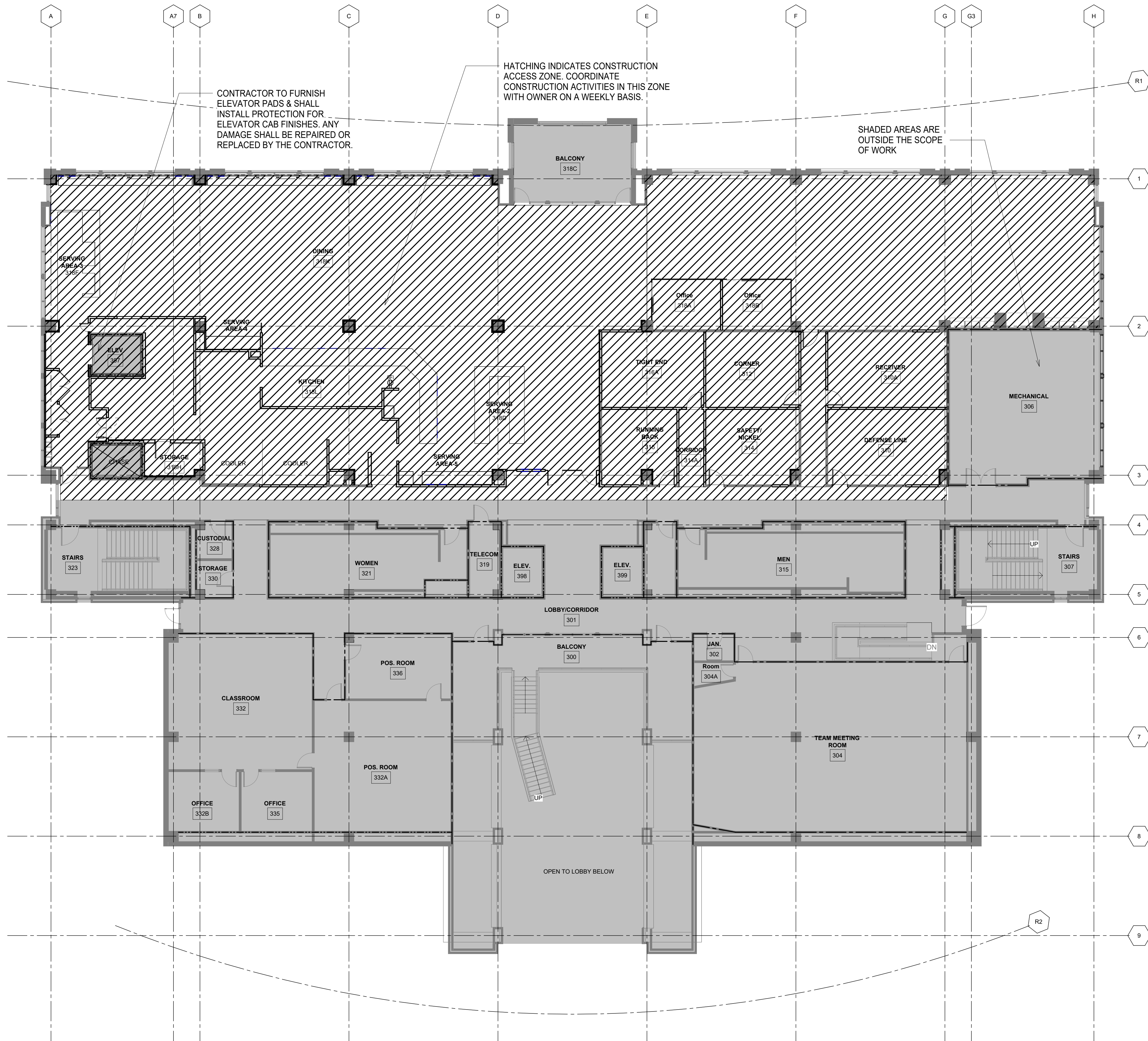
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phase	CD
issued for	BID
project number	2308

**Construction
Staging Plan -
Alternate#2**

sheet number

G2.02



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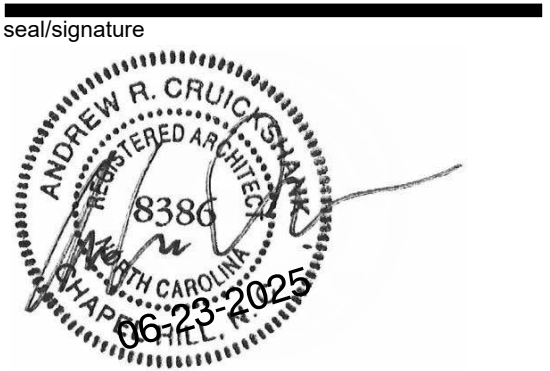
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rev	date	description
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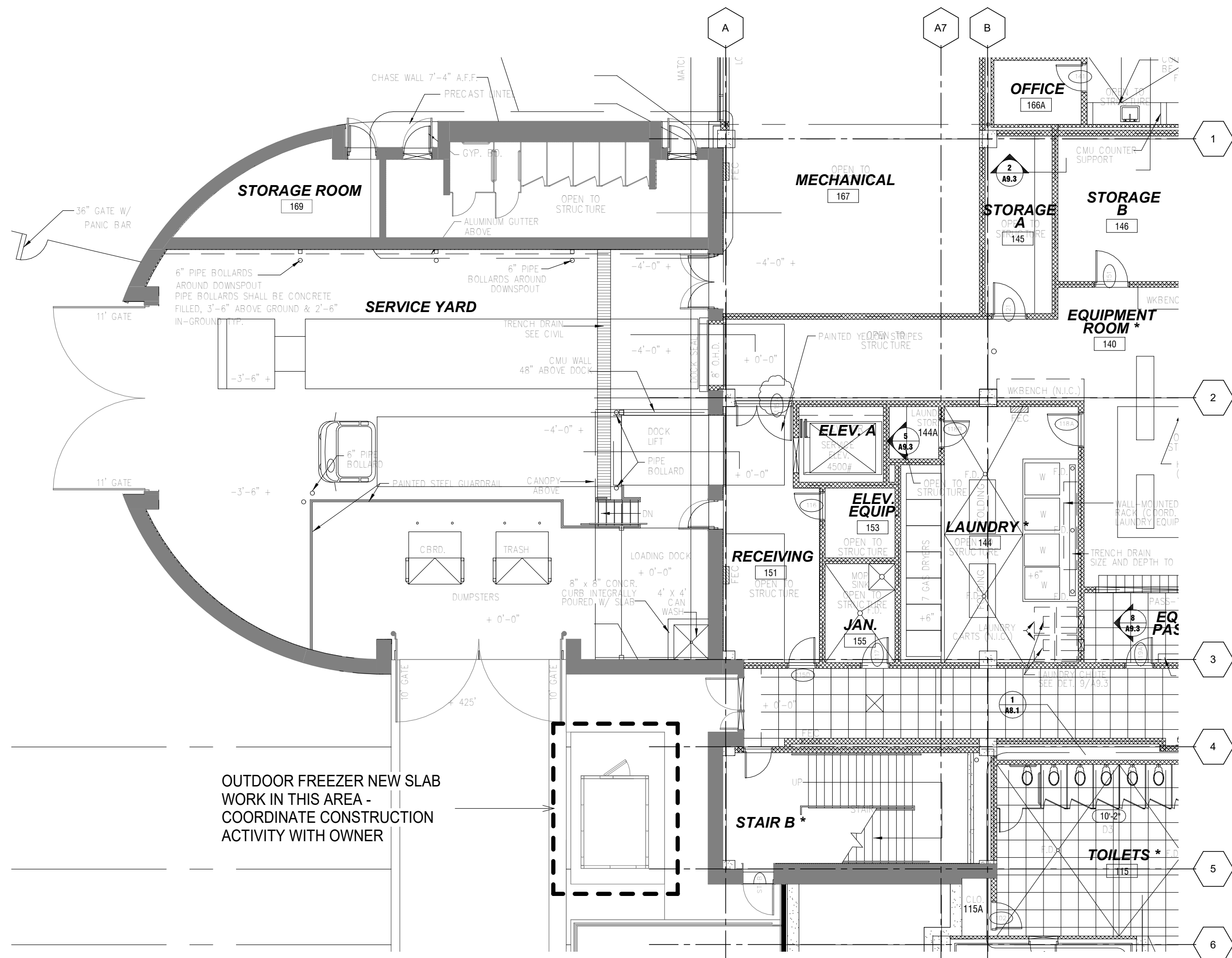
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**Construction
Staging Plan -
Alternate#3**

sheet number

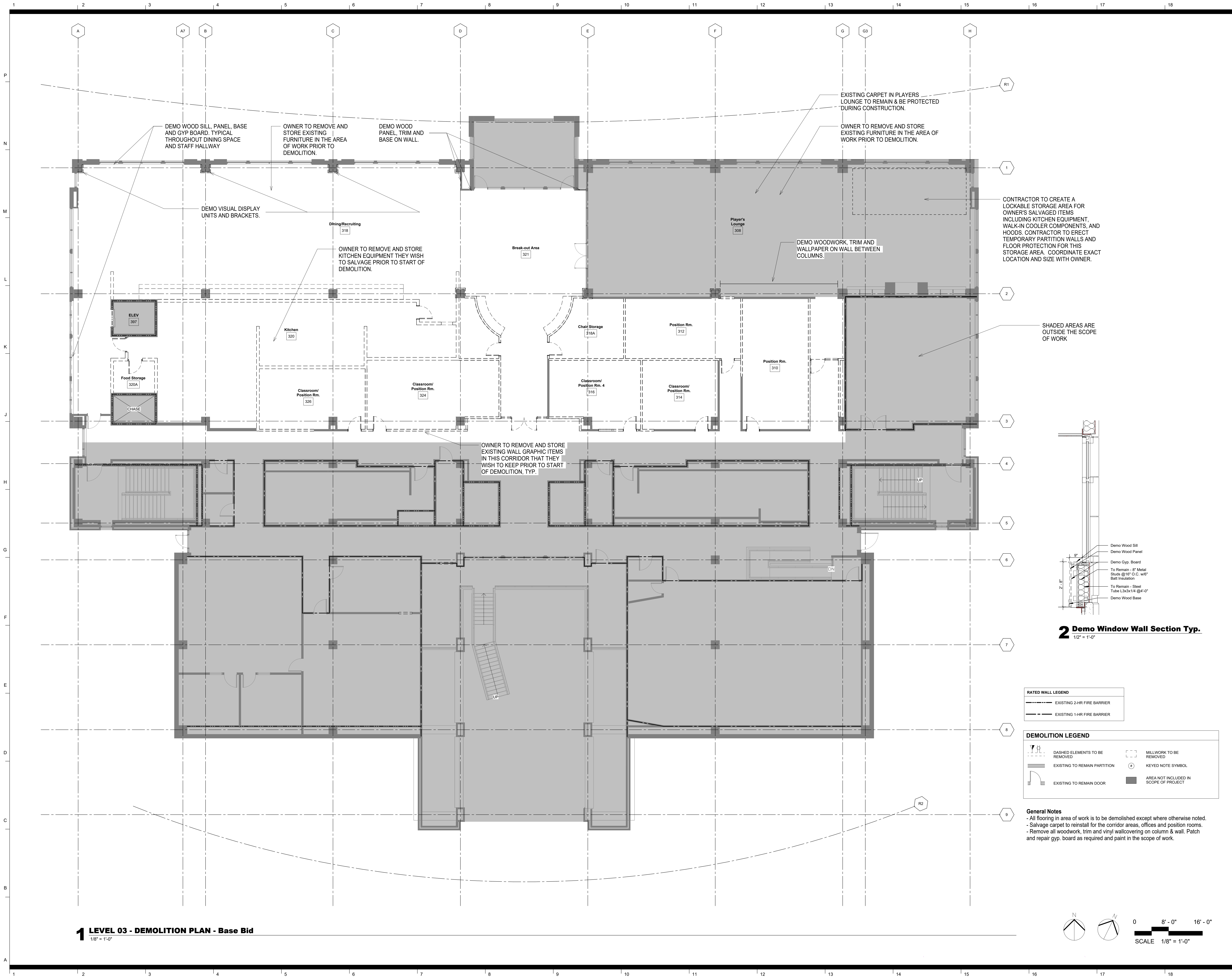
G2.03



- General Notes**
- All hardscapes must be protected by 3/4" thick 4' x 8' plywood.
 - The contractor must provide adequate protection of existing concrete, asphalt, and brick. All damage must be repaired by the contractor to ensure equal material substitution.
 - LCS will provide tree protection as needed in all areas that may have potential impact.
 - No storing of material or equipment on landscaped areas, including mulch beds and lawn.
 - All excess materials shall be removed from the site including asphalt, rocks, et cetera upon completion.
 - Please note, all vehicular traffic on hardscapes is by permit only and not allowed on softscapes.
 - All damages made to hardscapes/softscapes must be repaired by the contractor.

2 LEVEL 01 - CONSTRUCTION STAGING PLAN -Alternate#3
3/32" = 1'-0"





1 LEVEL 03 - DEMOLITION PLAN - Base Bid
1/8" = 1'-0"



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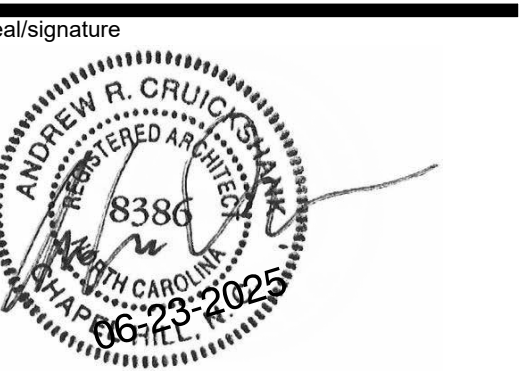
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Code: 42324 Item: 305
NCSU Building #:135F



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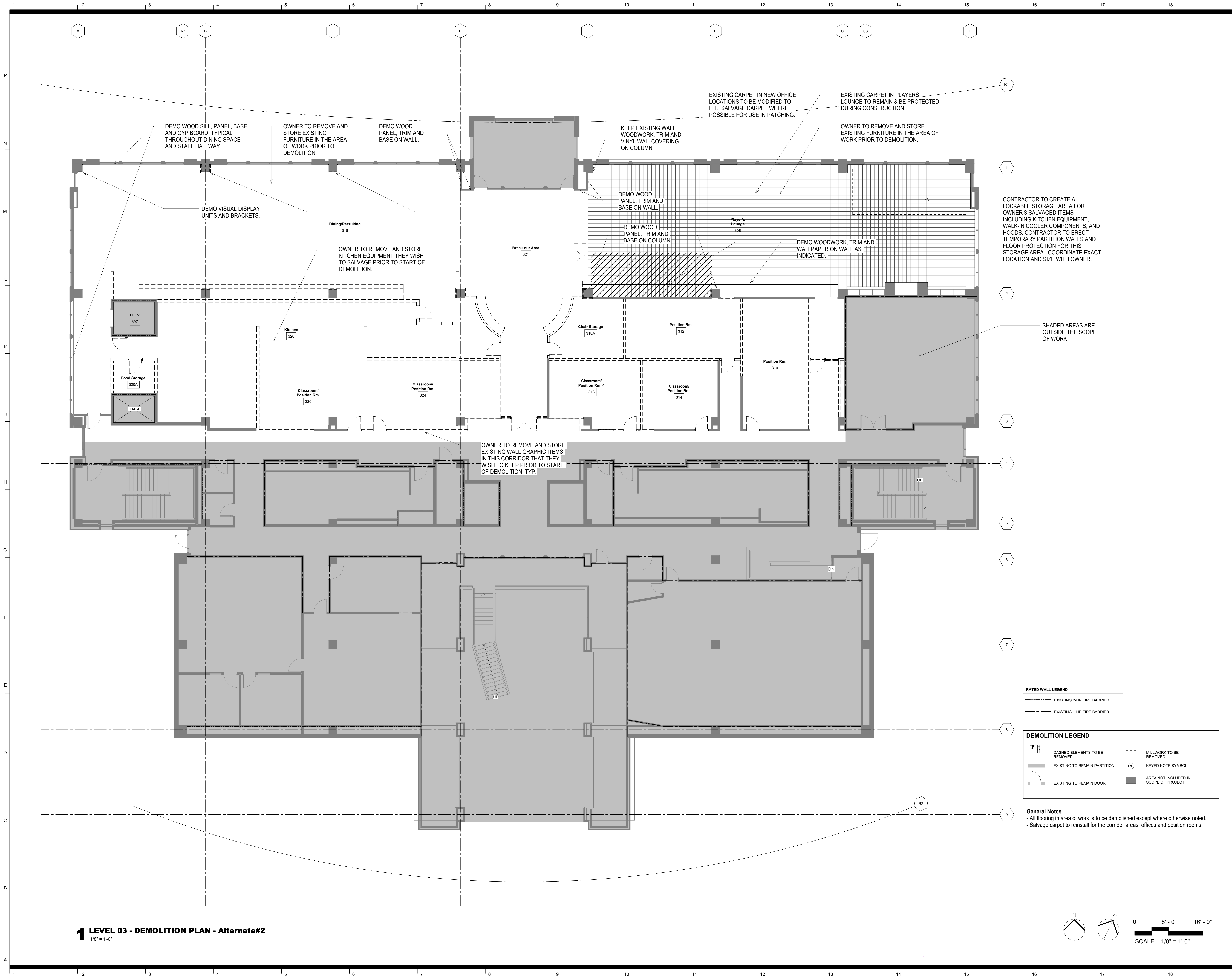
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**Demolition Plan -
Base Bid**

sheet number

A1.01



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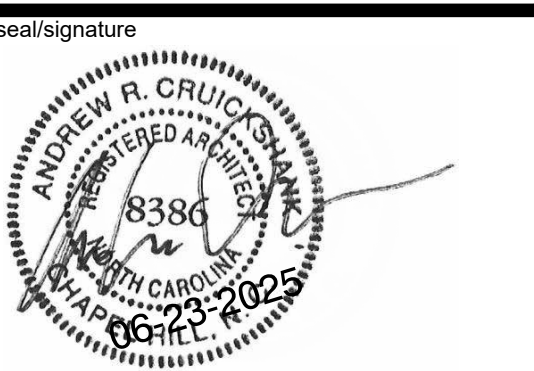
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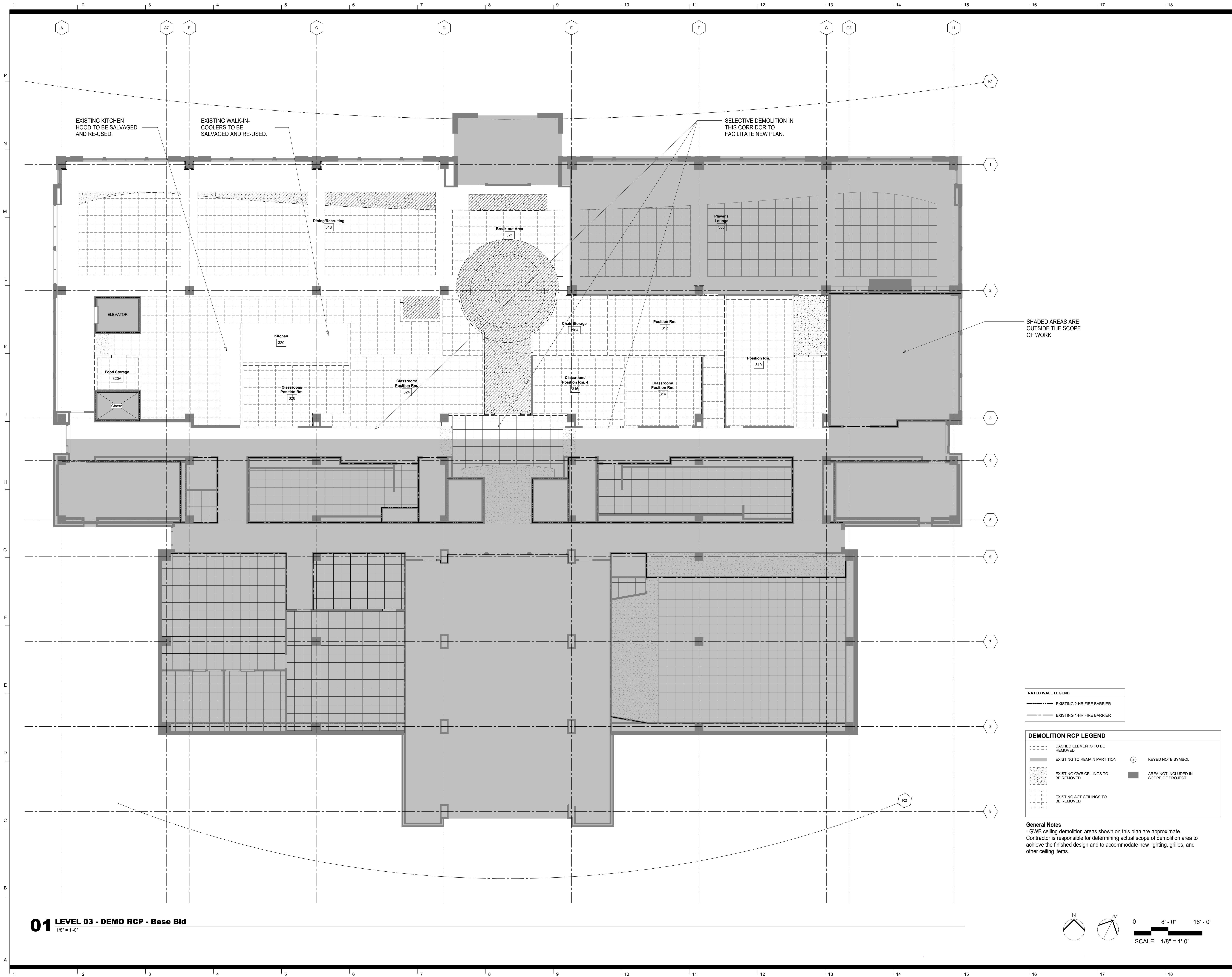
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**Demolition Plan -
Alternate#2**

sheet number

A1.01A



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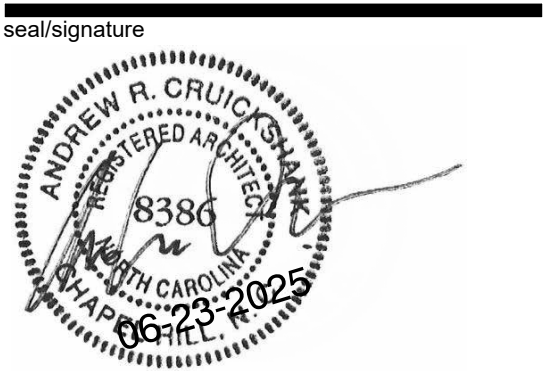
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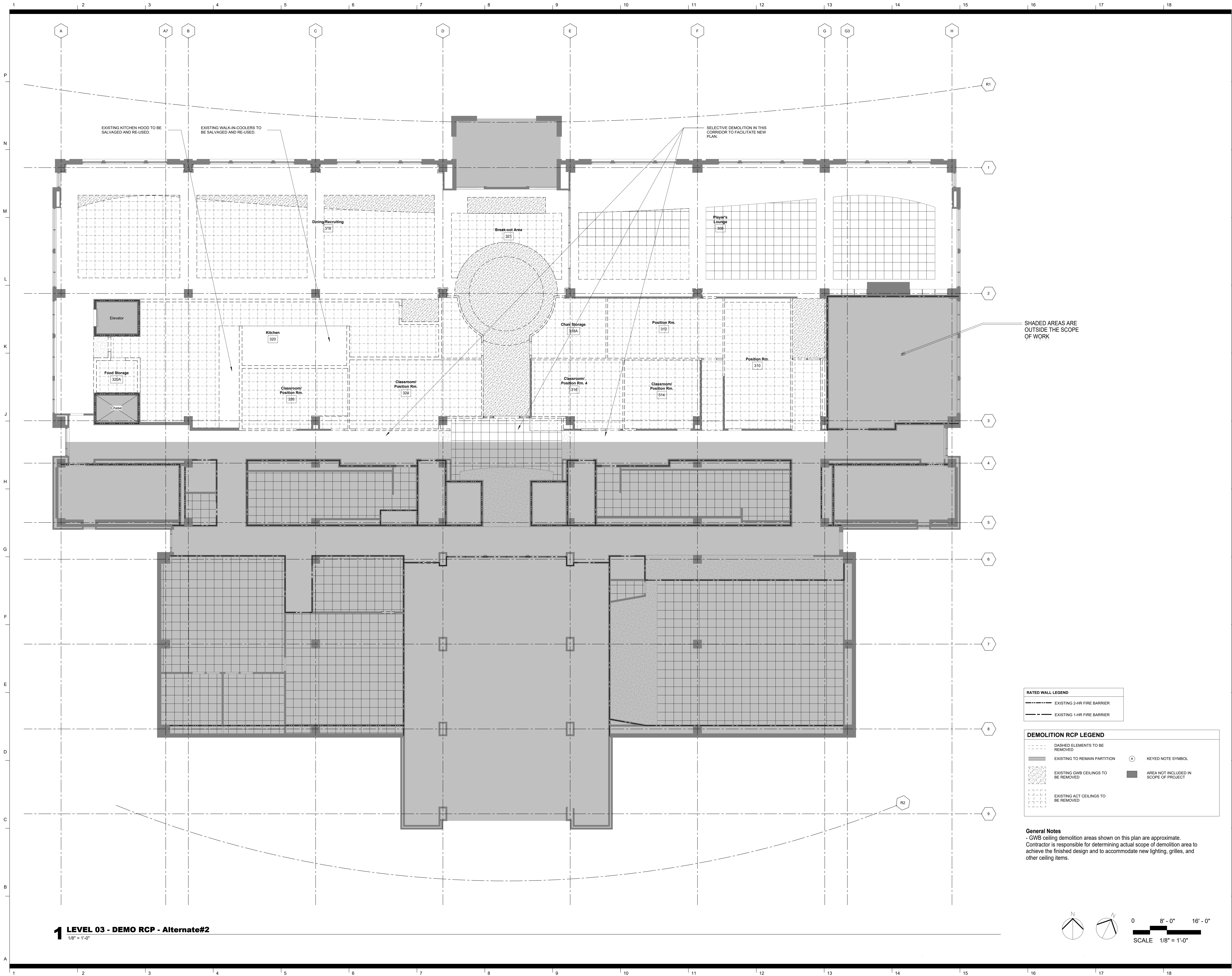
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**Demolition RCP -
Base Bid**

sheet number

A1.02



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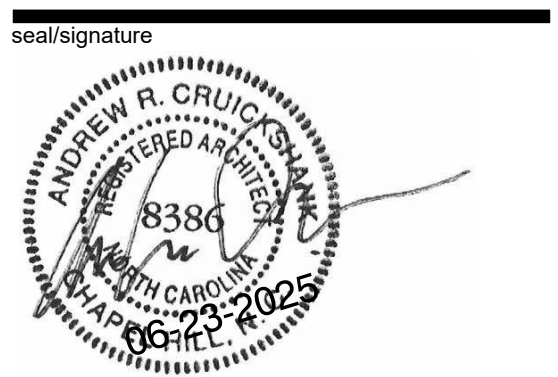
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rev	date	description
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RATED WALL LEGEND	
	EXISTING 2-HR FIRE BARRIER
	EXISTING 1-HR FIRE BARRIER

DEMOLITION RCP LEGEND	
	DASHED ELEMENTS TO BE REMOVED
	EXISTING TO REMAIN PARTITION
	EXISTING GWB CEILINGS TO BE REMOVED
	EXISTING ACT CEILINGS TO BE REMOVED
	KEYED NOTE SYMBOL
	AREA NOT INCLUDED IN SCOPE OF PROJECT

General Notes
- GWB ceiling demolition areas shown on this plan are approximate. Contractor is responsible for determining actual scope of demolition area to achieve the finished design and to accommodate new lighting, grilles, and other ceiling items.



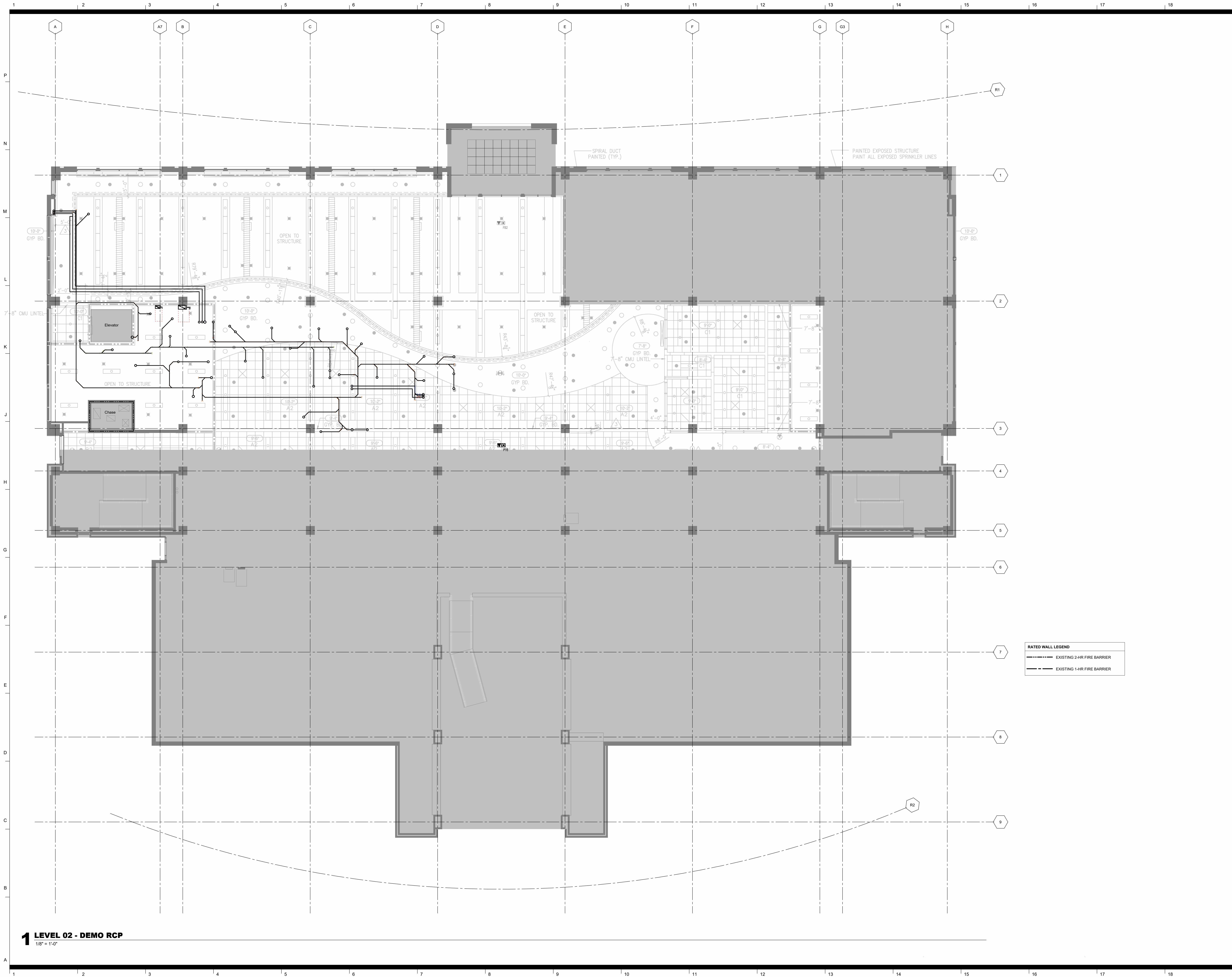
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**Demolition RCP -
Alternate#2**

sheet number

A1.02A



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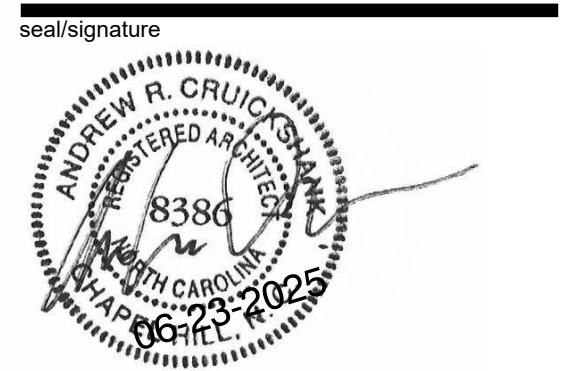
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**Demolition RCP -
Level 02**

sheet number

A1.03



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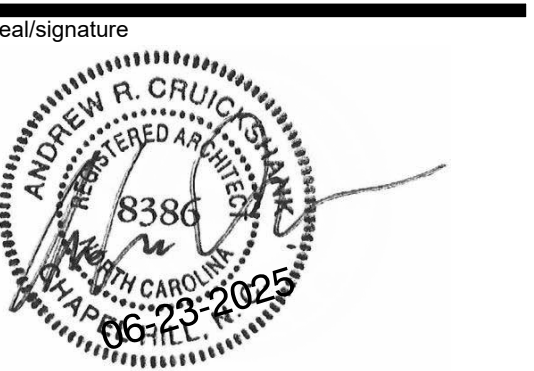
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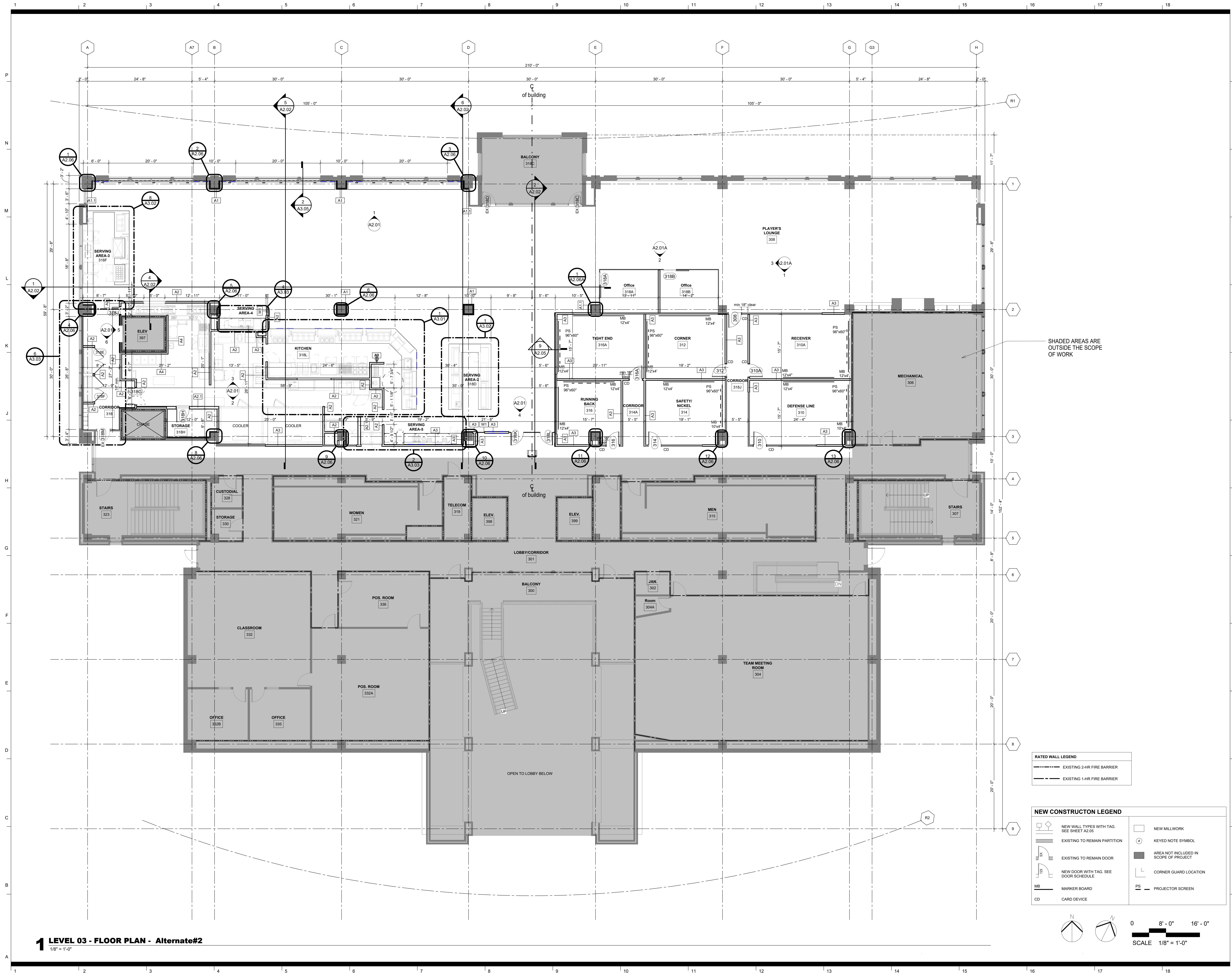
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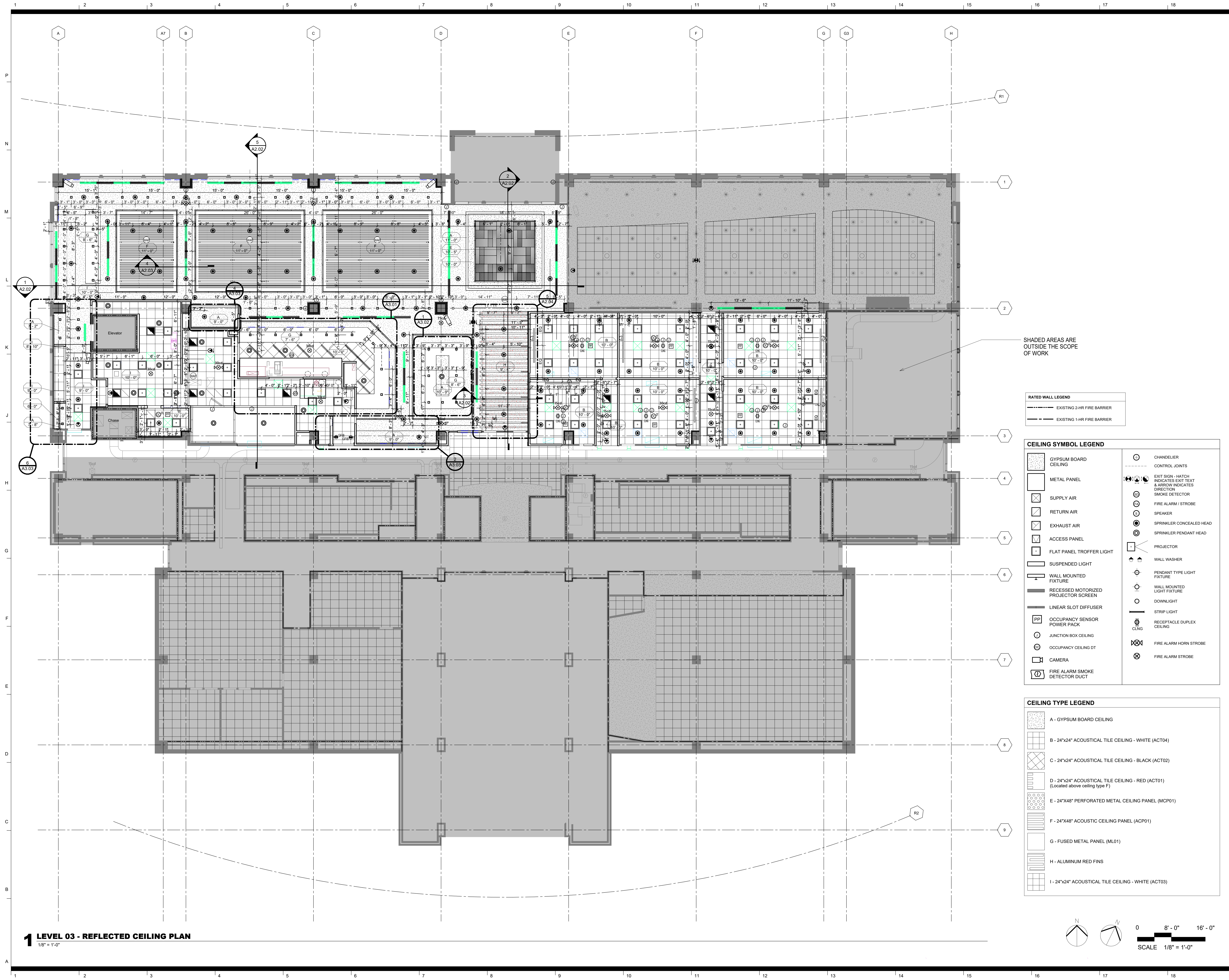
**Floor Plan -
Alternate#2**

sheet number

A1.04A



1 LEVEL 03 - FLOOR PLAN - Alternate#2
1/8" = 1'-0"



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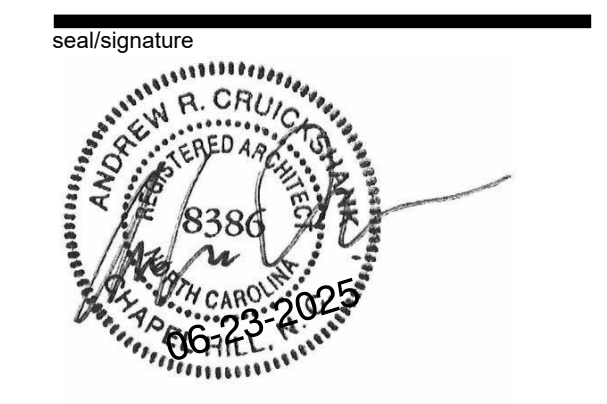
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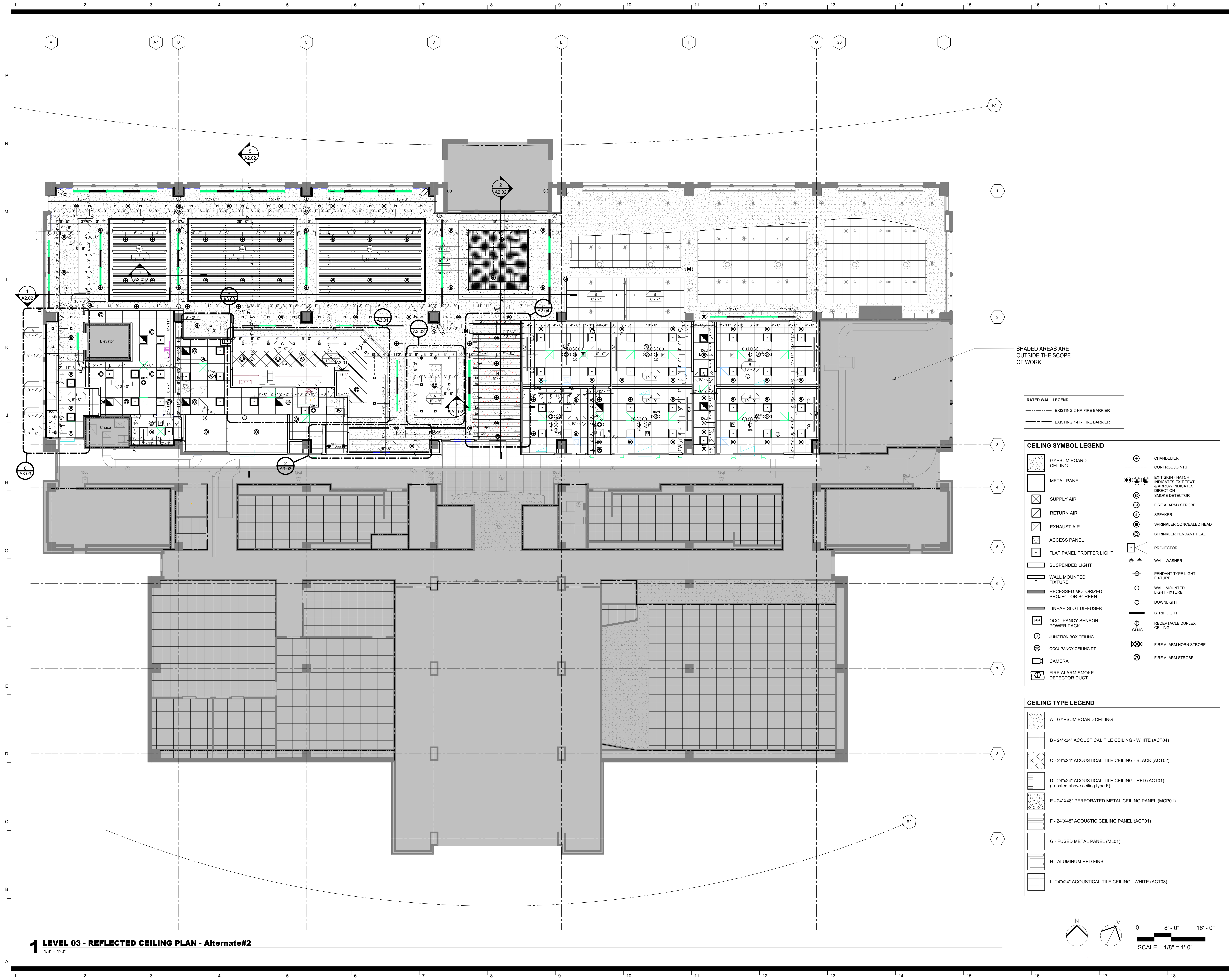
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**Reflected Ceiling
Plan - Base Bid**

sheet number

A1.05



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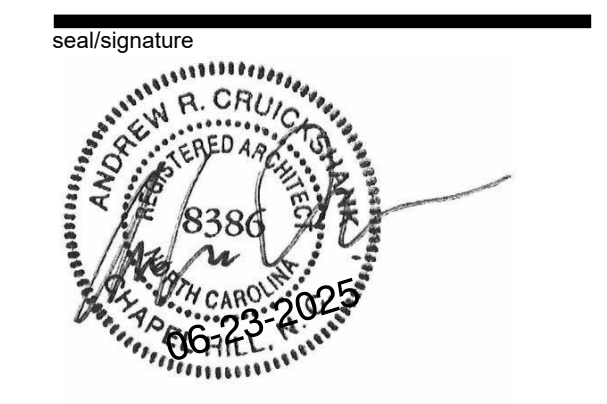
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Code: 42324 Item: 305
NCSU Building #135F



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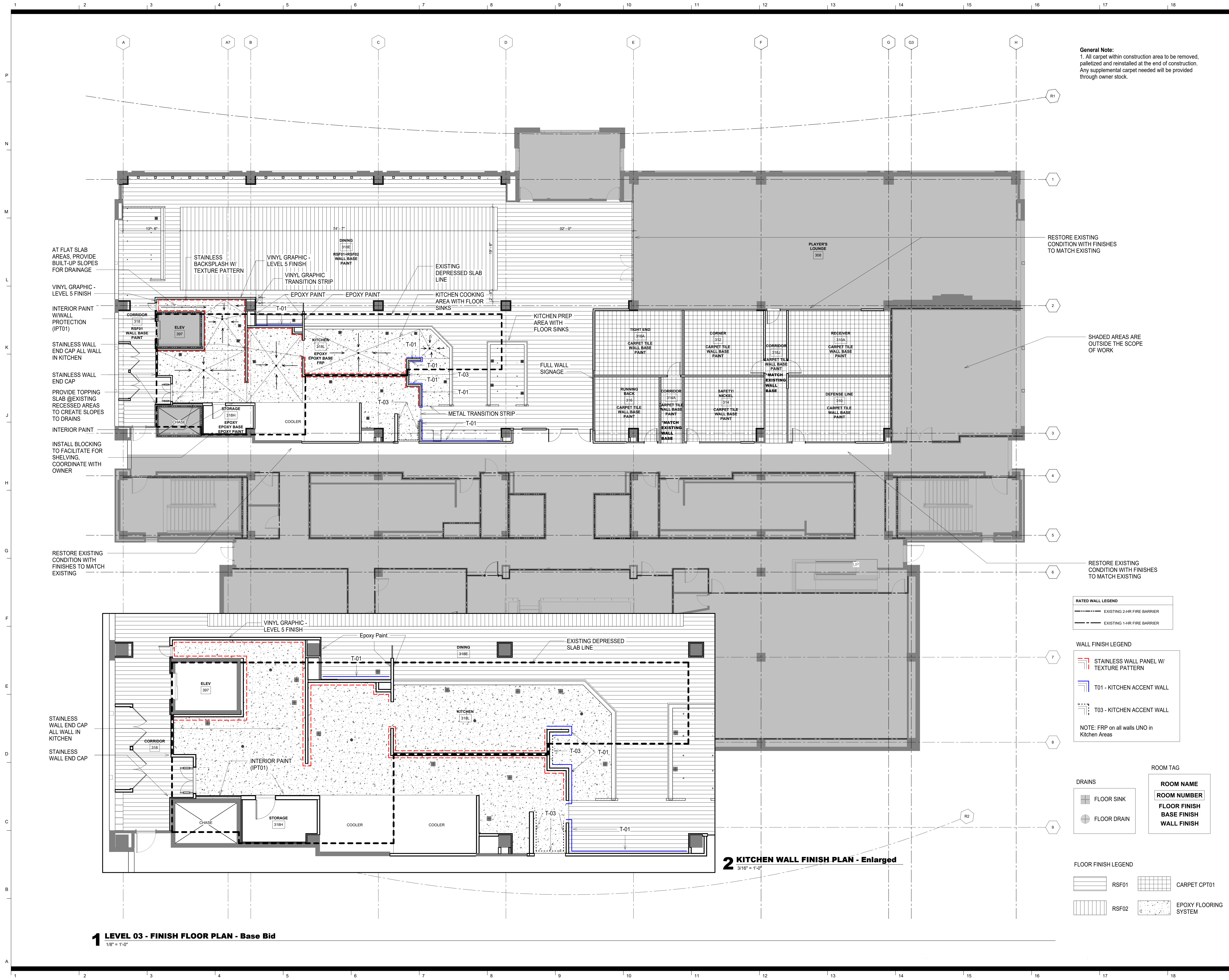
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**Reflected Ceiling
Plan - Alternate#2**

sheet number

A1.05A



General Note:
1. All carpet within construction area to be removed, palletized and reinstalled at the end of construction. Any supplemental carpet needed will be provided through owner stock.

RESTORE EXISTING CONDITION WITH FINISHES TO MATCH EXISTING

SHADED AREAS ARE OUTSIDE THE SCOPE OF WORK

RESTORE EXISTING CONDITION WITH FINISHES TO MATCH EXISTING

RATED WALL LEGEND

---	EXISTING 2-HR FIRE BARRIER
---	EXISTING 1-HR FIRE BARRIER

WALL FINISH LEGEND

[Red dashed line]	STAINLESS WALL PANEL W/ TEXTURE PATTERN
[Blue line]	T-01 - KITCHEN ACCENT WALL
[Dashed line]	T-03 - KITCHEN ACCENT WALL

NOTE: FRP on all walls UNO in Kitchen Areas

ROOM TAG

ROOM NAME
ROOM NUMBER
FLOOR FINISH
BASE FINISH
WALL FINISH

DRAINS

[Symbol]	FLOOR SINK
[Symbol]	FLOOR DRAIN

FLOOR FINISH LEGEND

[Symbol]	RSF01	[Symbol]	CARPET CPT01
[Symbol]	RSF02	[Symbol]	EPOXY FLOORING SYSTEM



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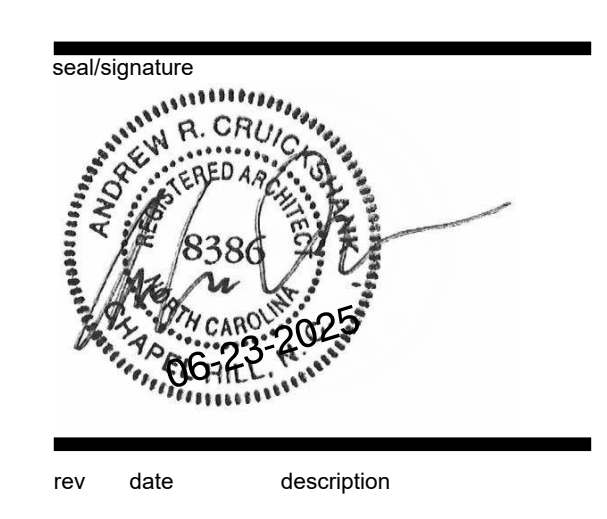
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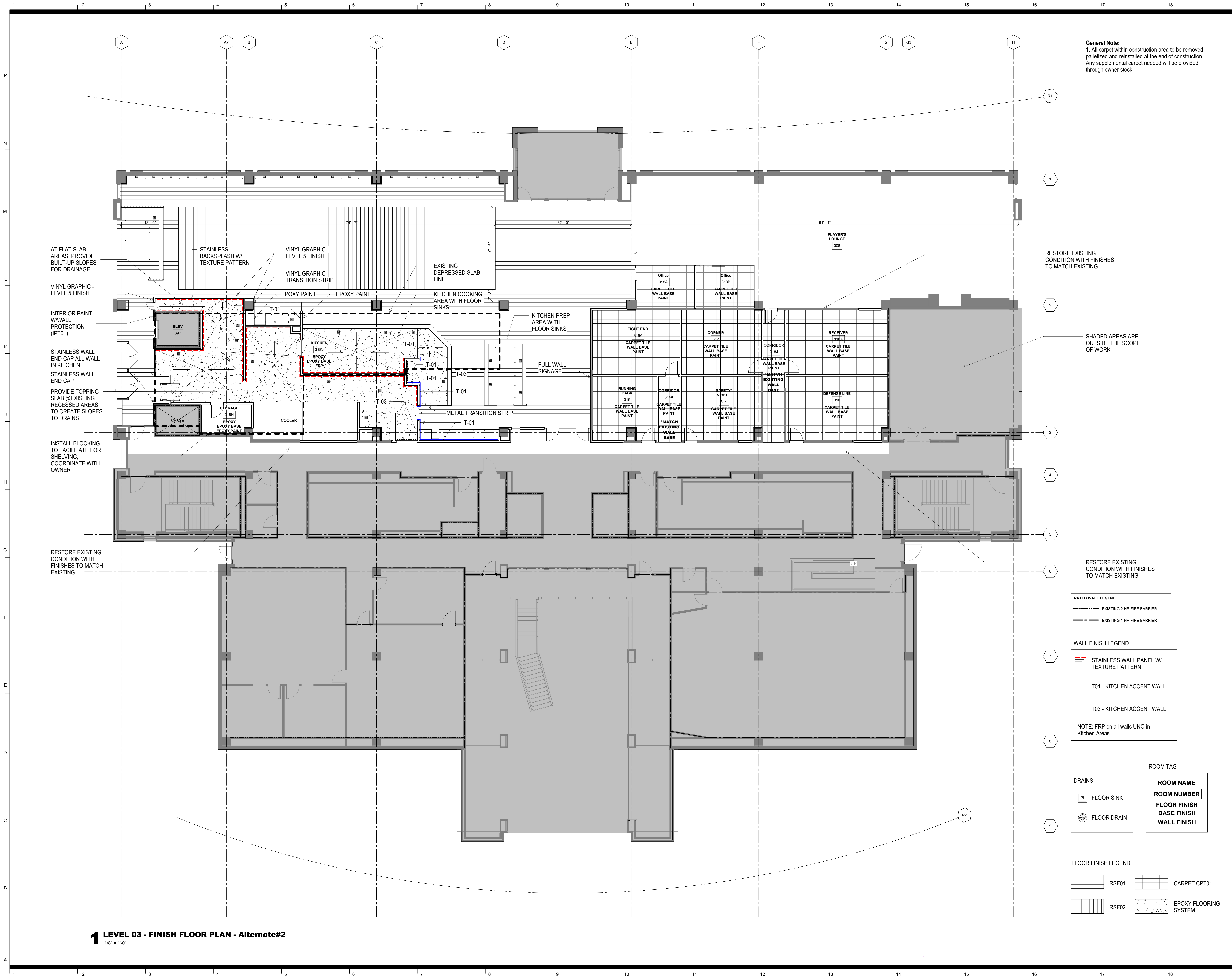
Finish Plan - Base Bid

sheet number

A1.06

1 LEVEL 03 - FINISH FLOOR PLAN - Base Bid
1/8" = 1'-0"

2 KITCHEN WALL FINISH PLAN - Enlarged
3/16" = 1'-0"



AT FLAT SLAB
AREAS, PROVIDE
BUILT-UP SLOPES
FOR DRAINAGE

VINYL GRAPHIC -
LEVEL 5 FINISH

INTERIOR PAINT
W/WALL
PROTECTION
(IPT01)

STAINLESS WALL
END CAP ALL WALL
IN KITCHEN

STAINLESS WALL
END CAP

PROVIDE TOPPING
SLAB @EXISTING
RECESSED AREAS
TO CREATE SLOPES
TO DRAINS

INSTALL BLOCKING
TO FACILITATE FOR
SHELVING.
COORDINATE WITH
OWNER

RESTORE EXISTING
CONDITION WITH
FINISHES TO MATCH
EXISTING

STAINLESS
BACKSPLASH W/
TEXTURE PATTERN

VINYL GRAPHIC -
LEVEL 5 FINISH

VINYL GRAPHIC
TRANSITION STRIP

EPOXY PAINT

EPOXY PAINT

KITCHEN COOKING
AREA WITH FLOOR
SINKS

KITCHEN
318L

EPOXY
EPOXY BASE
FRP

STORAGE
318H

EPOXY
EPOXY BASE
EPOXY PAINT

COOLER

METAL TRANSITION STRIP

T-01

T-01

T-01

T-01

T-01

T-01

T-01

T-01

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T-01

T-01

T-01

T-01

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T-01

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T-01

EXISTING DEPRESSED SLAB
LINE

KITCHEN COOKING
AREA WITH FLOOR
SINKS

KITCHEN PREP
AREA WITH
FLOOR SINKS

FULL WALL
SIGNAGE

KITCHEN COOKING
AREA WITH FLOOR
SINKS

KITCHEN PREP
AREA WITH
FLOOR SINKS

FULL WALL
SIGNAGE

KITCHEN COOKING
AREA WITH FLOOR
SINKS

KITCHEN PREP
AREA WITH
FLOOR SINKS

FULL WALL
SIGNAGE

KITCHEN COOKING
AREA WITH FLOOR
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KITCHEN PREP
AREA WITH
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FULL WALL
SIGNAGE

KITCHEN COOKING
AREA WITH FLOOR
SINKS

KITCHEN PREP
AREA WITH
FLOOR SINKS

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SIGNAGE

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AREA WITH
FLOOR SINKS

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KITCHEN PREP
AREA WITH
FLOOR SINKS

FULL WALL
SIGNAGE

KITCHEN COOKING
AREA WITH FLOOR
SINKS

KITCHEN PREP
AREA WITH
FLOOR SINKS

FULL WALL
SIGNAGE

Office
310A

Office
310B

Office
310C

Office
310D

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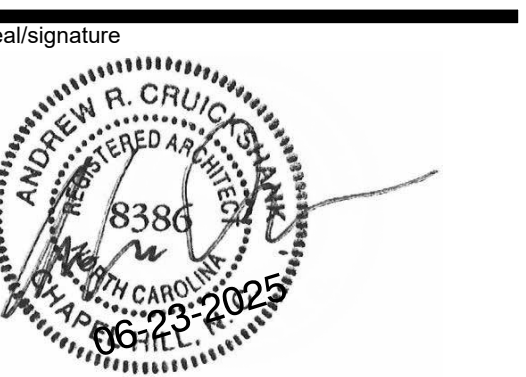
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Code: 42324 Item: 305
NCSU Building #:135F



rev date description

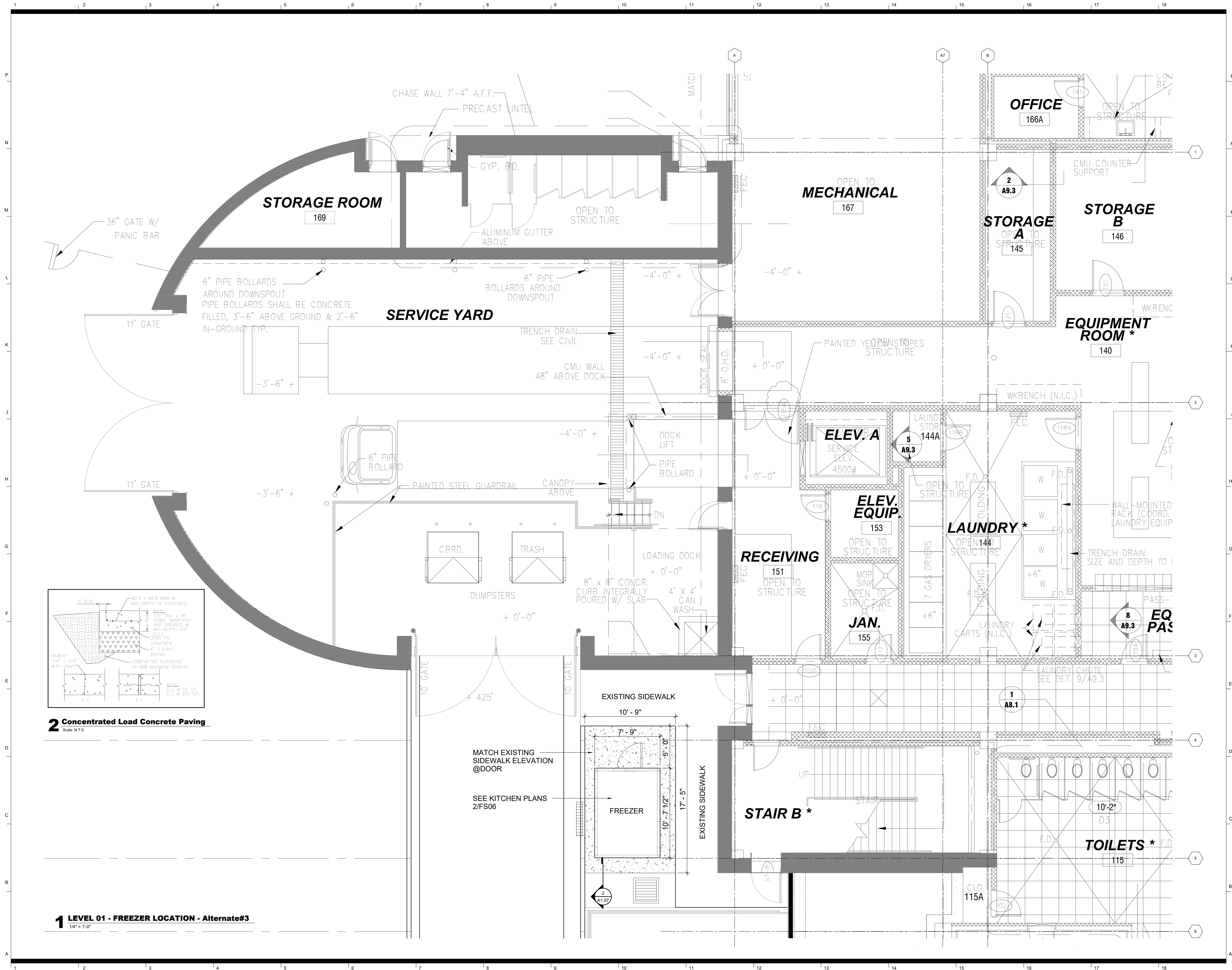
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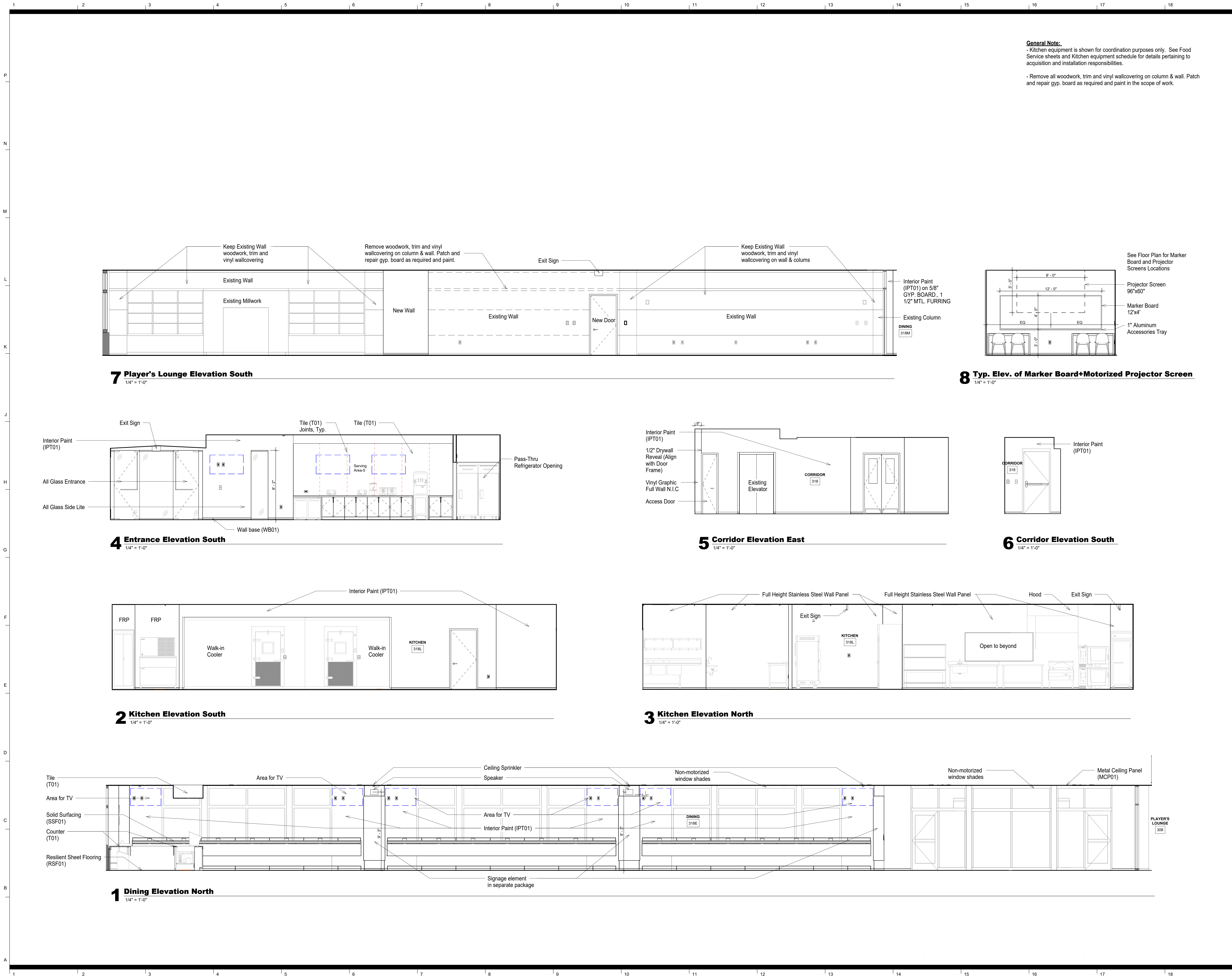
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**Freezer Location -
1st Floor -
Alternate#3**

sheet number

A1.07





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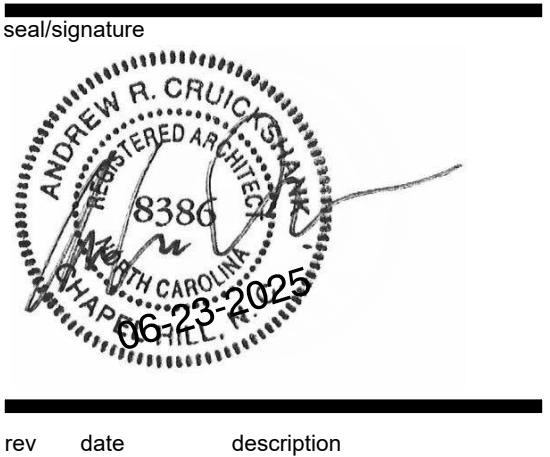
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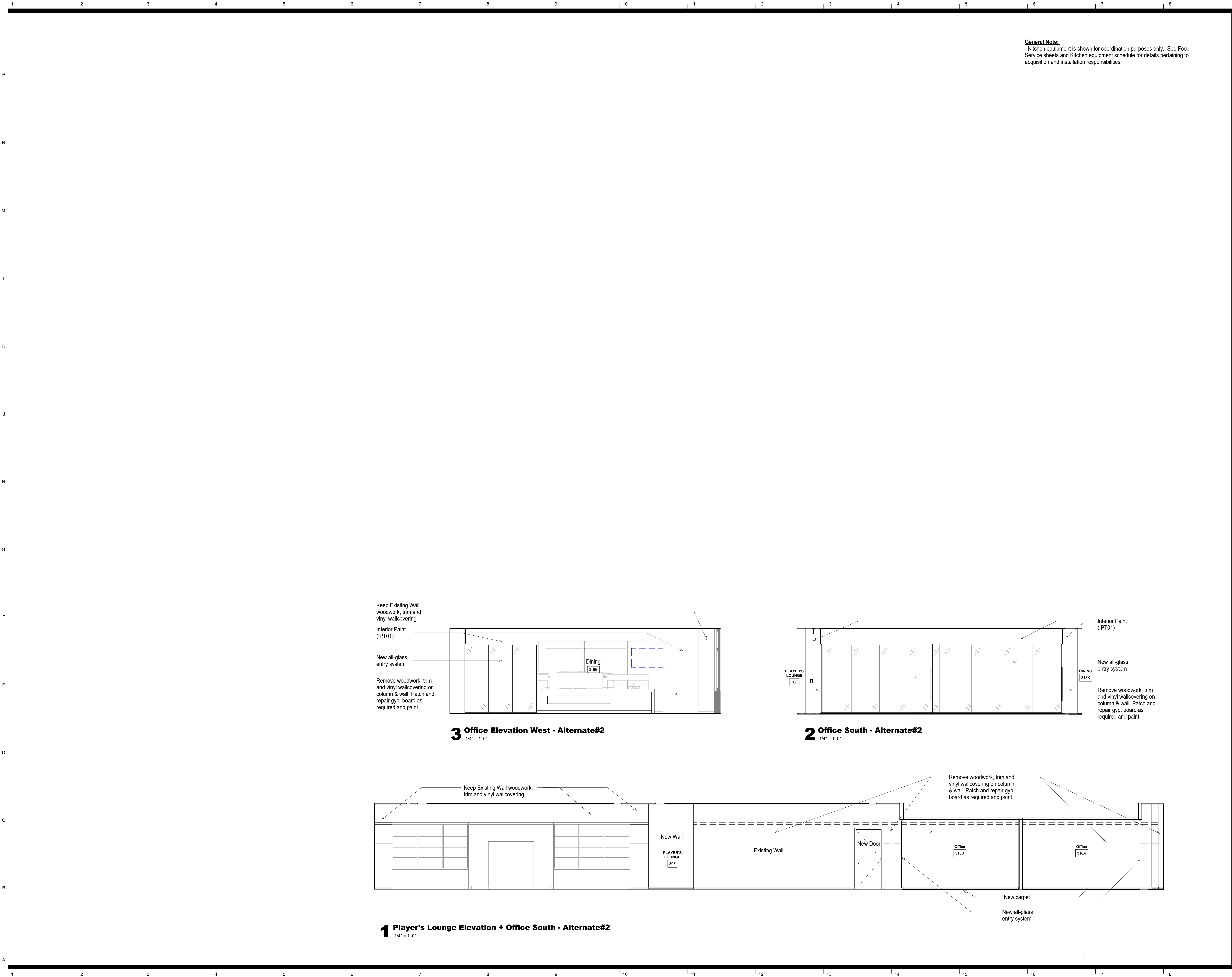
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**Interior Elevations -
Base Bid**



General Note:
- Kitchen equipment is shown for coordination purposes only. See Food Service sheets and Kitchen equipment schedule for details pertaining to acquisition and installation responsibilities.



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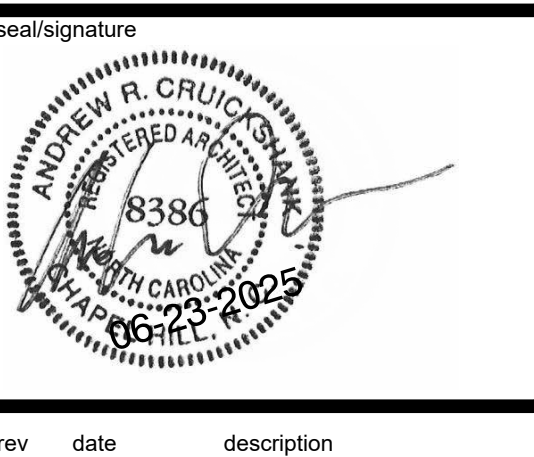
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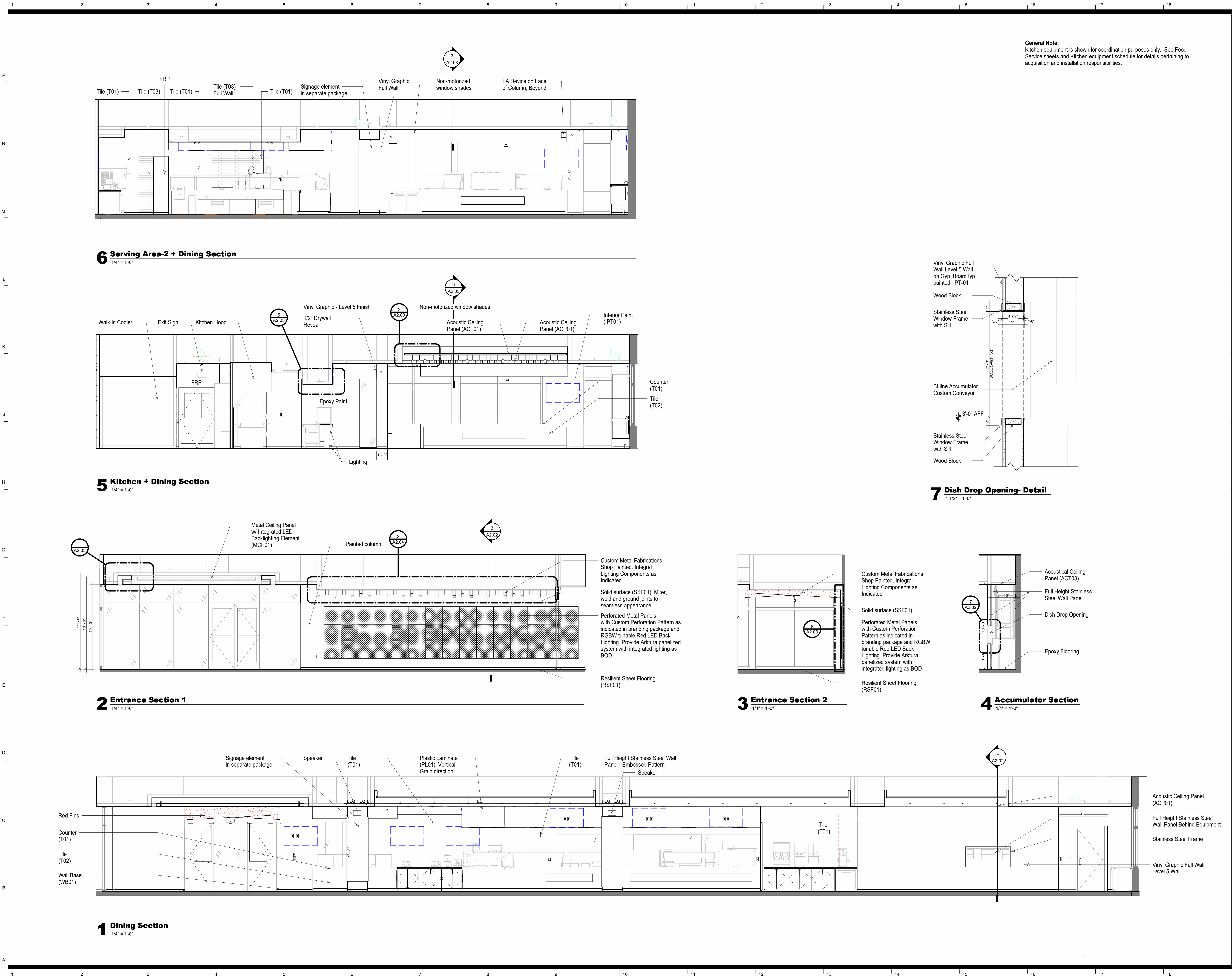


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**Interior Elevations -
Alternate#2**

sheet number

A2.01A



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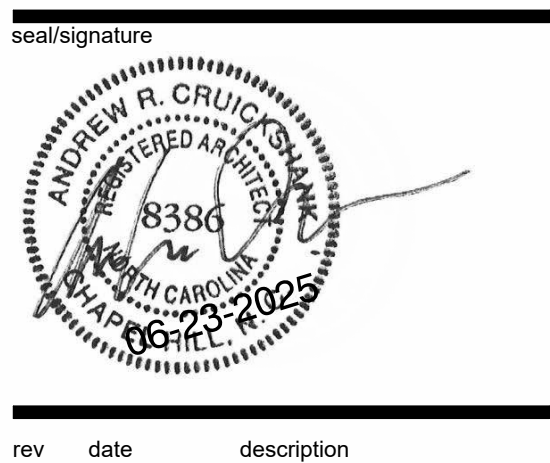
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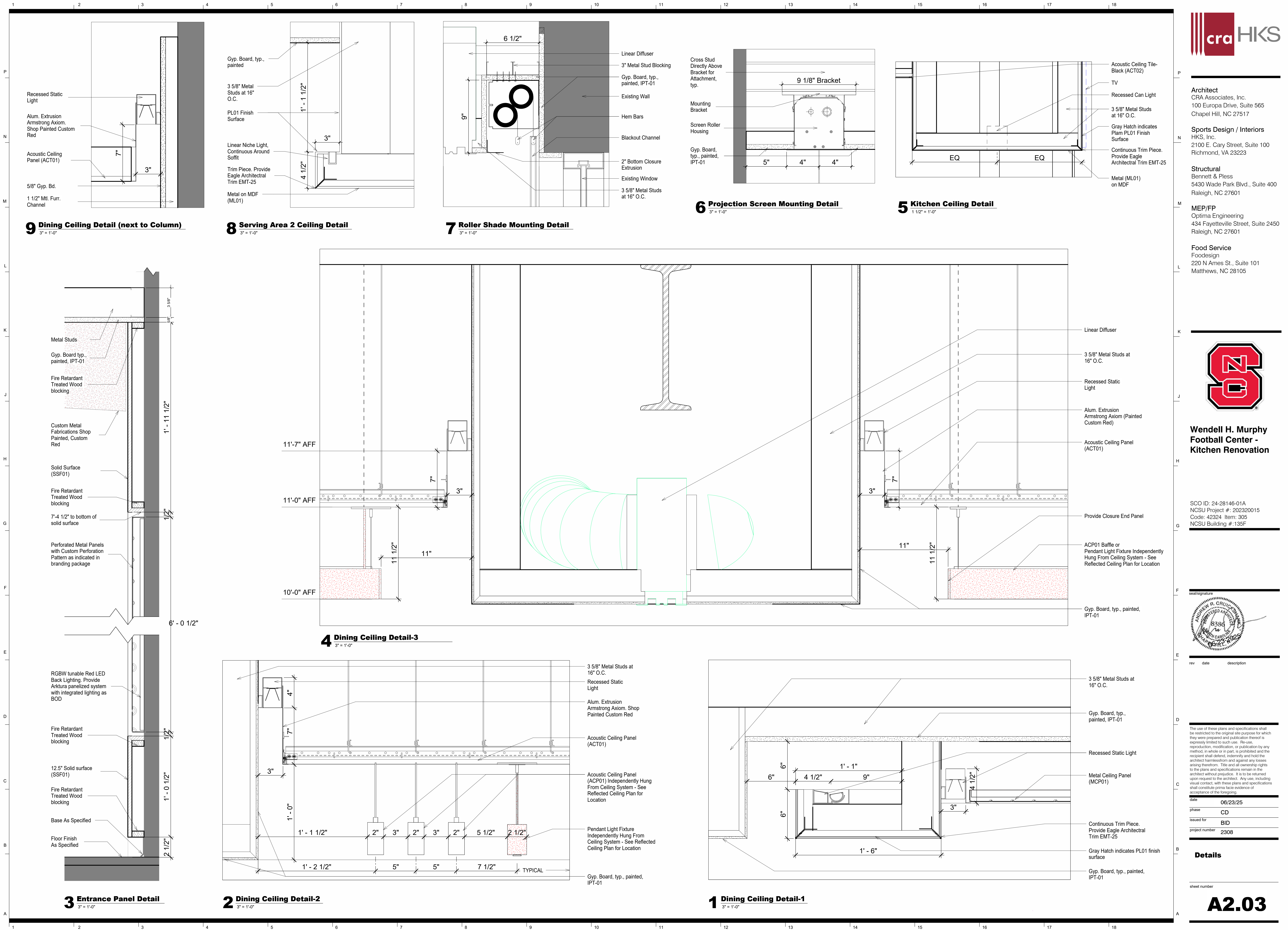


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Interior Sections

sheet number

A2.02



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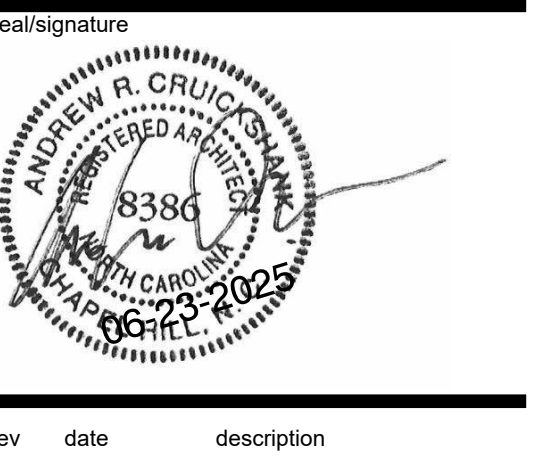
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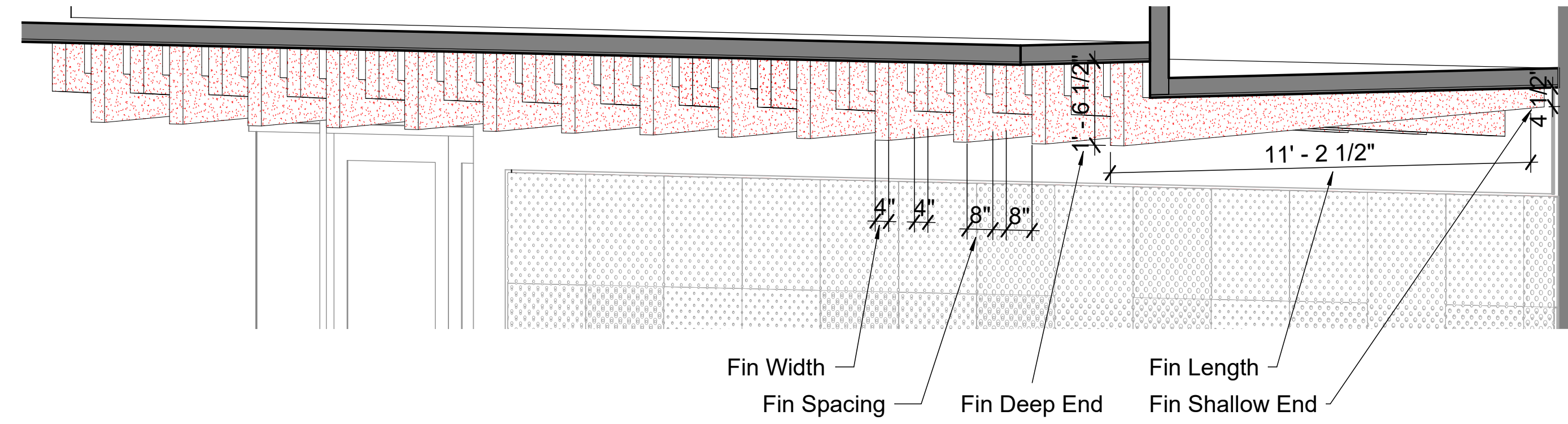
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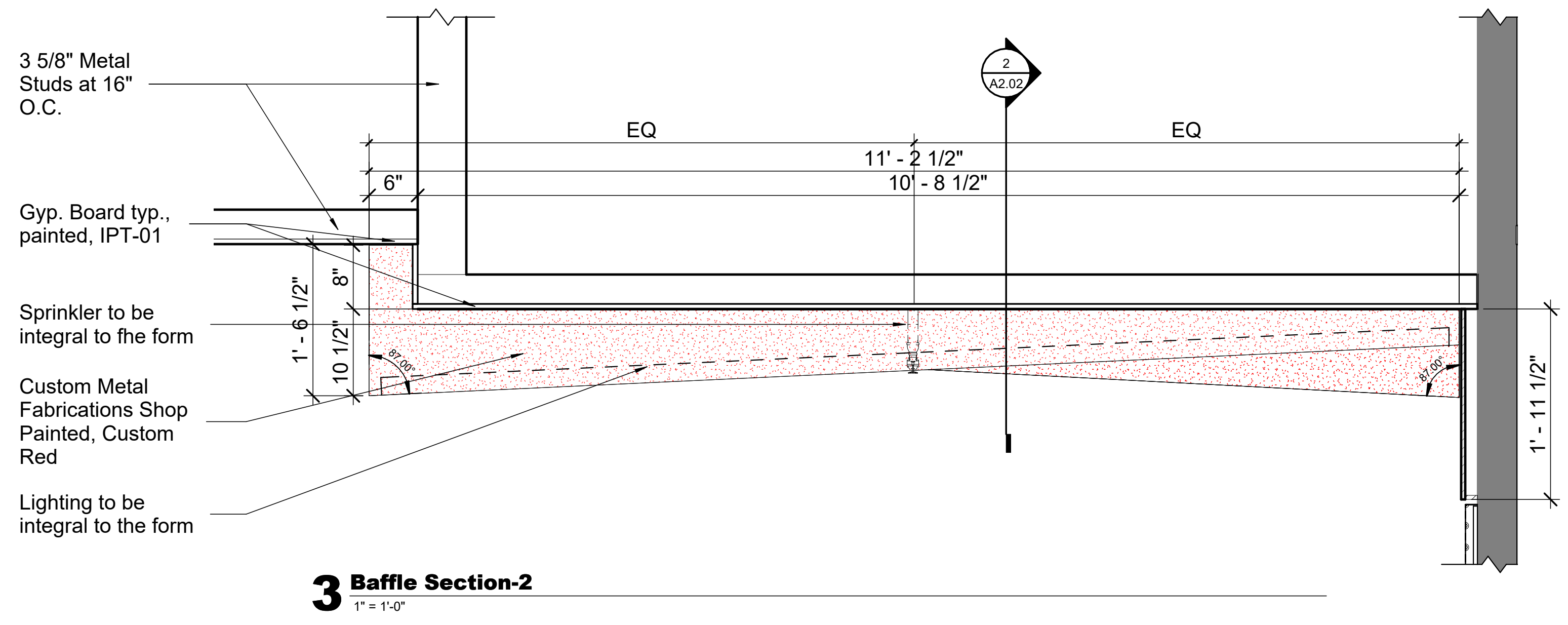
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A2.04

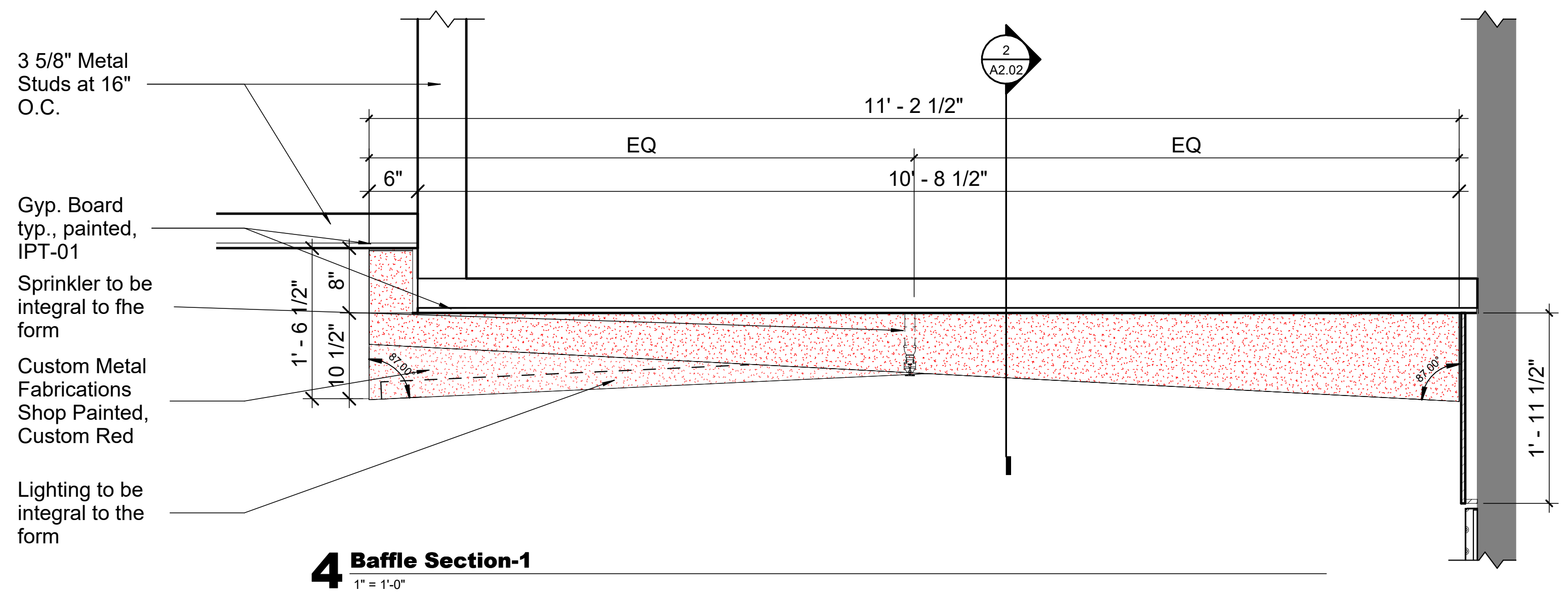
Note:
- Full mockup of one of the elements should be reviewed prior to fabrication of the entire ceiling. Includes:
1. Section of light
2. Section with a sprinkler + escutcheon
3. Section without any elements with proposed fastening system



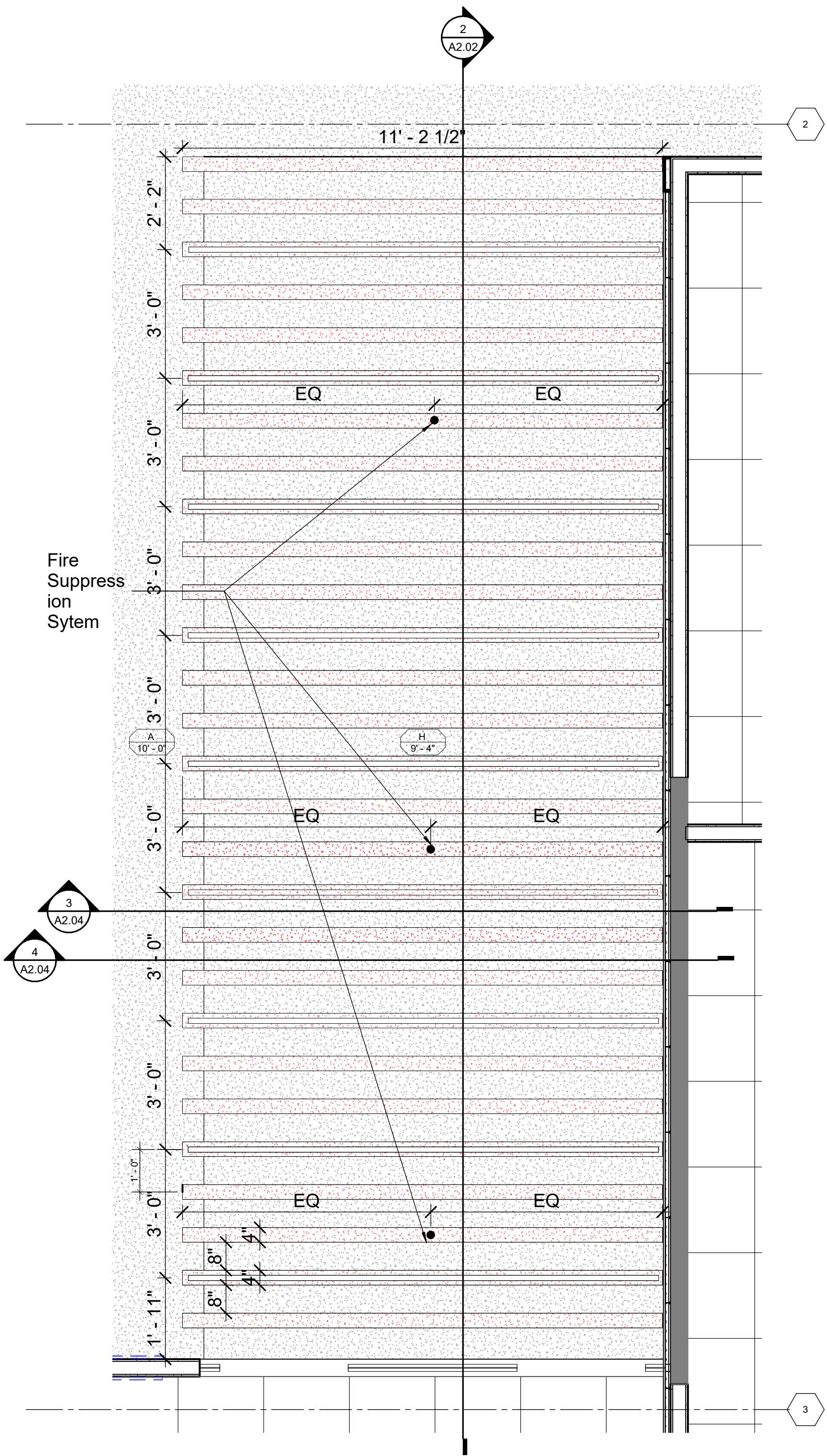
1 Entrance Ceiling Axon



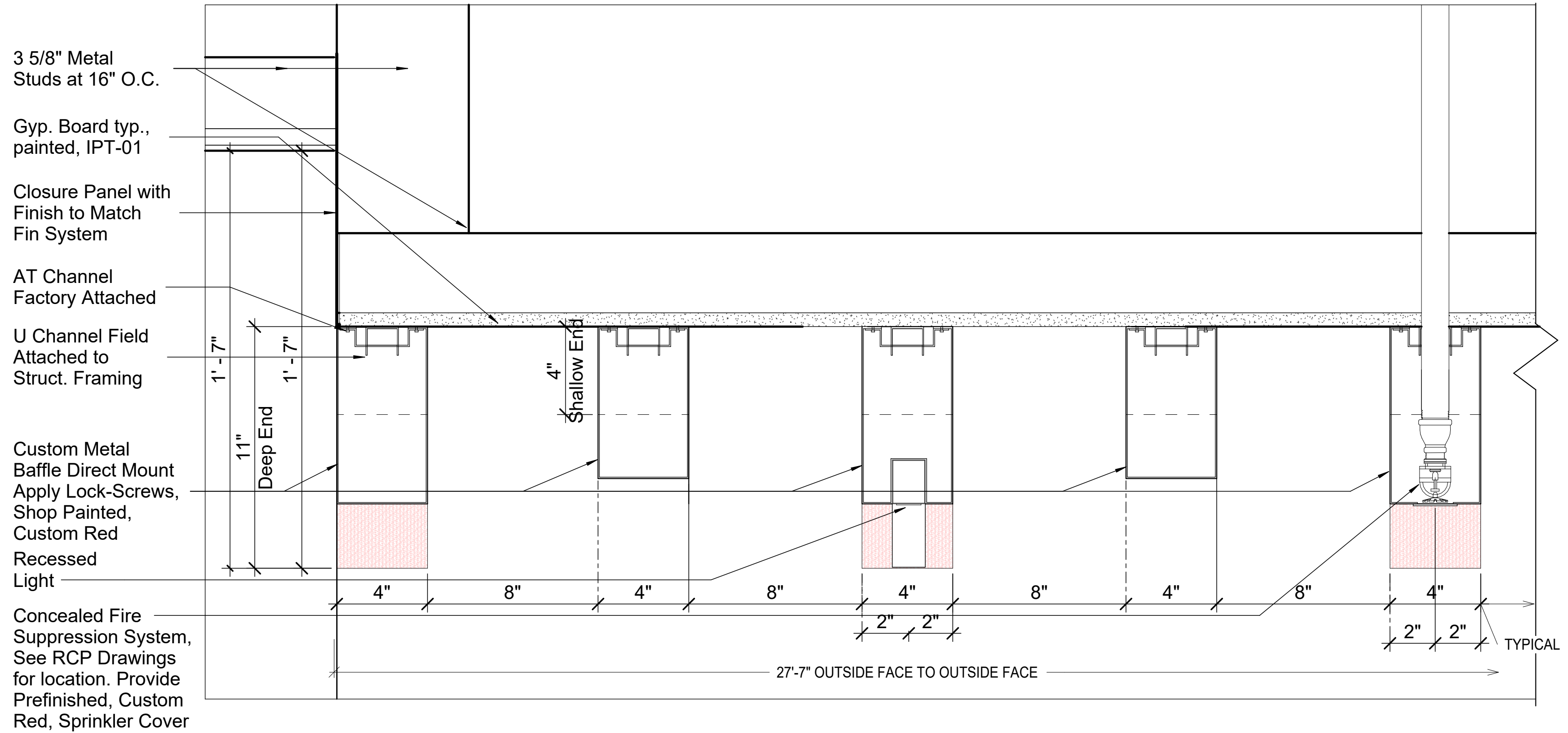
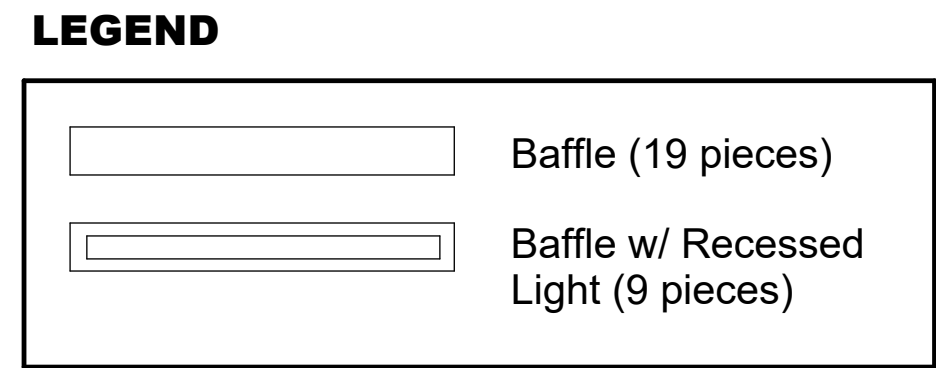
3 Baffle Section-2
1" = 1'-0"



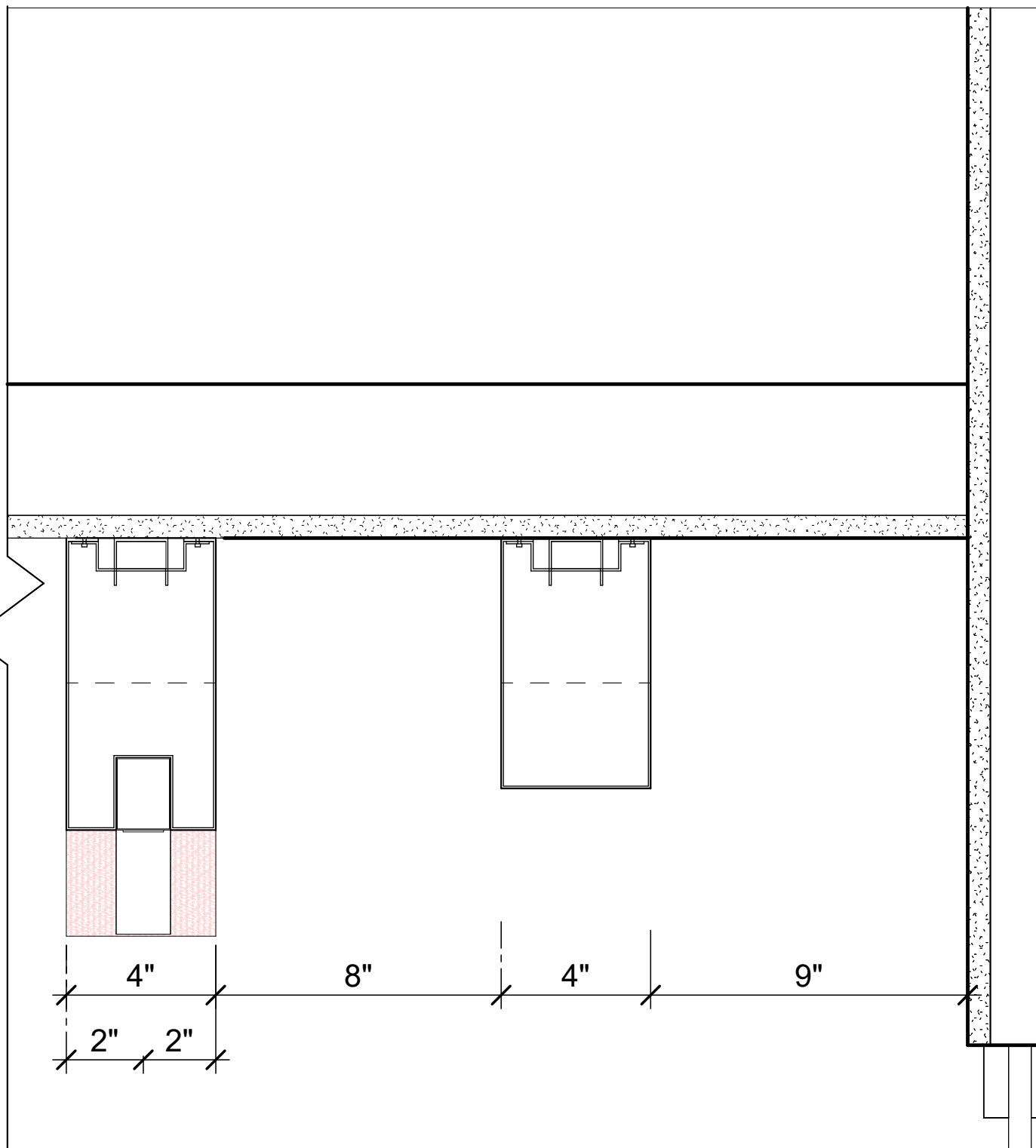
4 Baffle Section-1
1" = 1'-0"



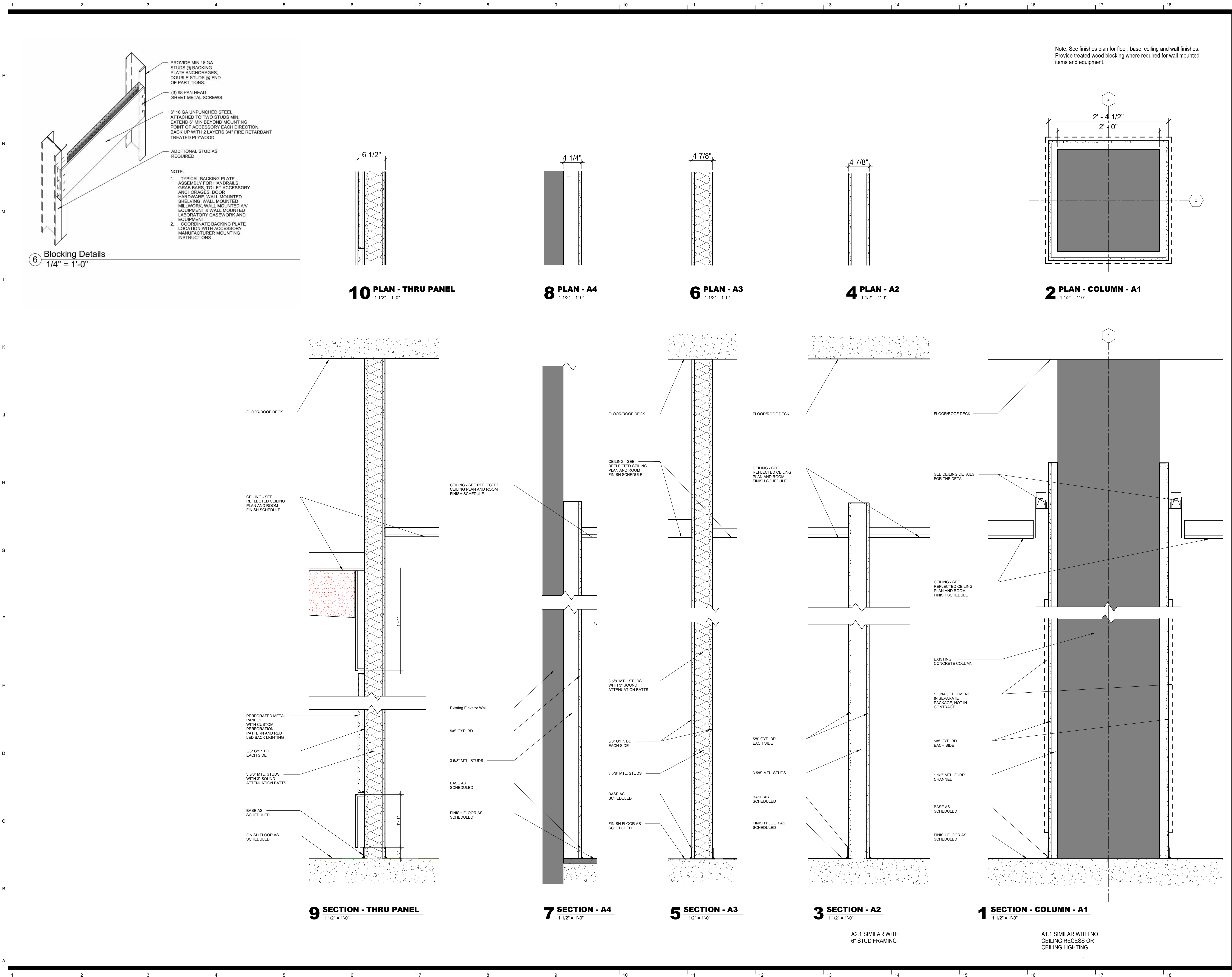
5 LEVEL 03 - Entrance RCP
1/2" = 1'-0"



2 Entrance Ceiling Baffle Detail
3" = 1'-0"



TYPICAL



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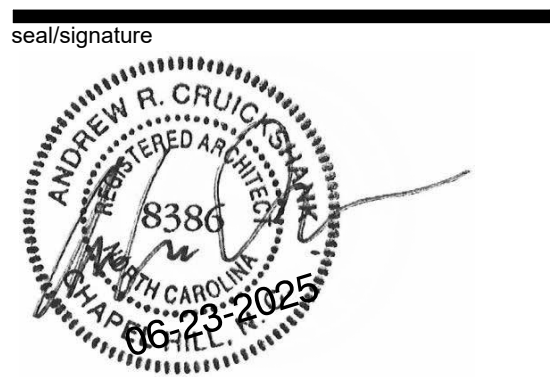
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rev	date	description
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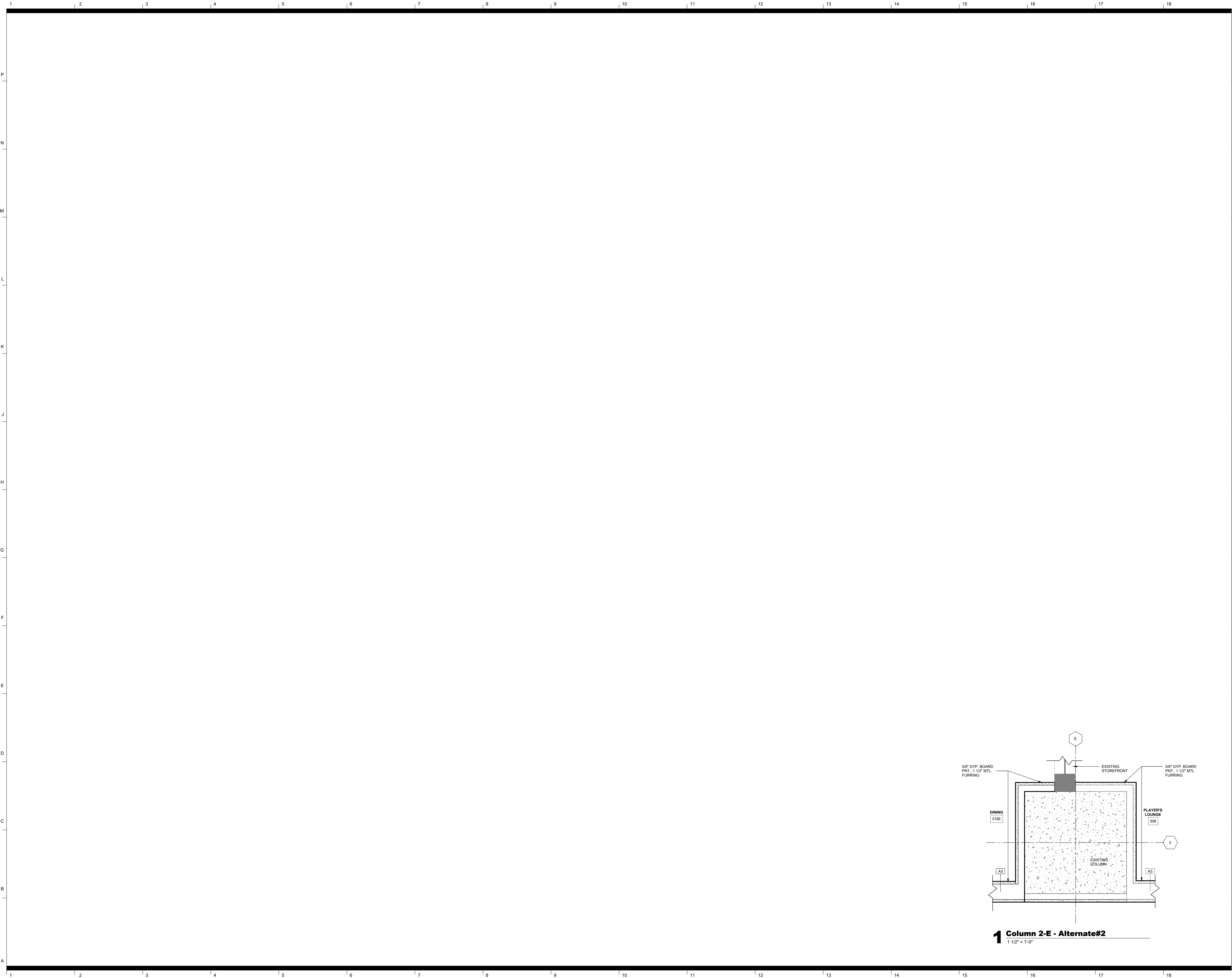
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Partition Types

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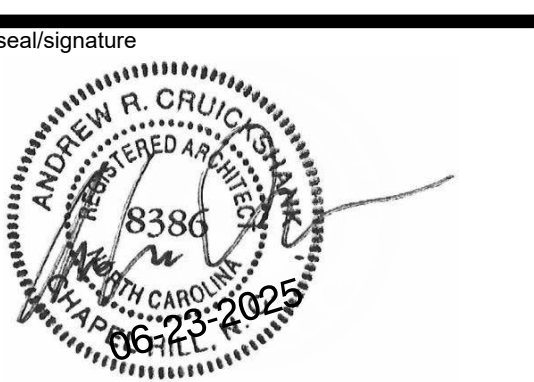
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rev	date	description
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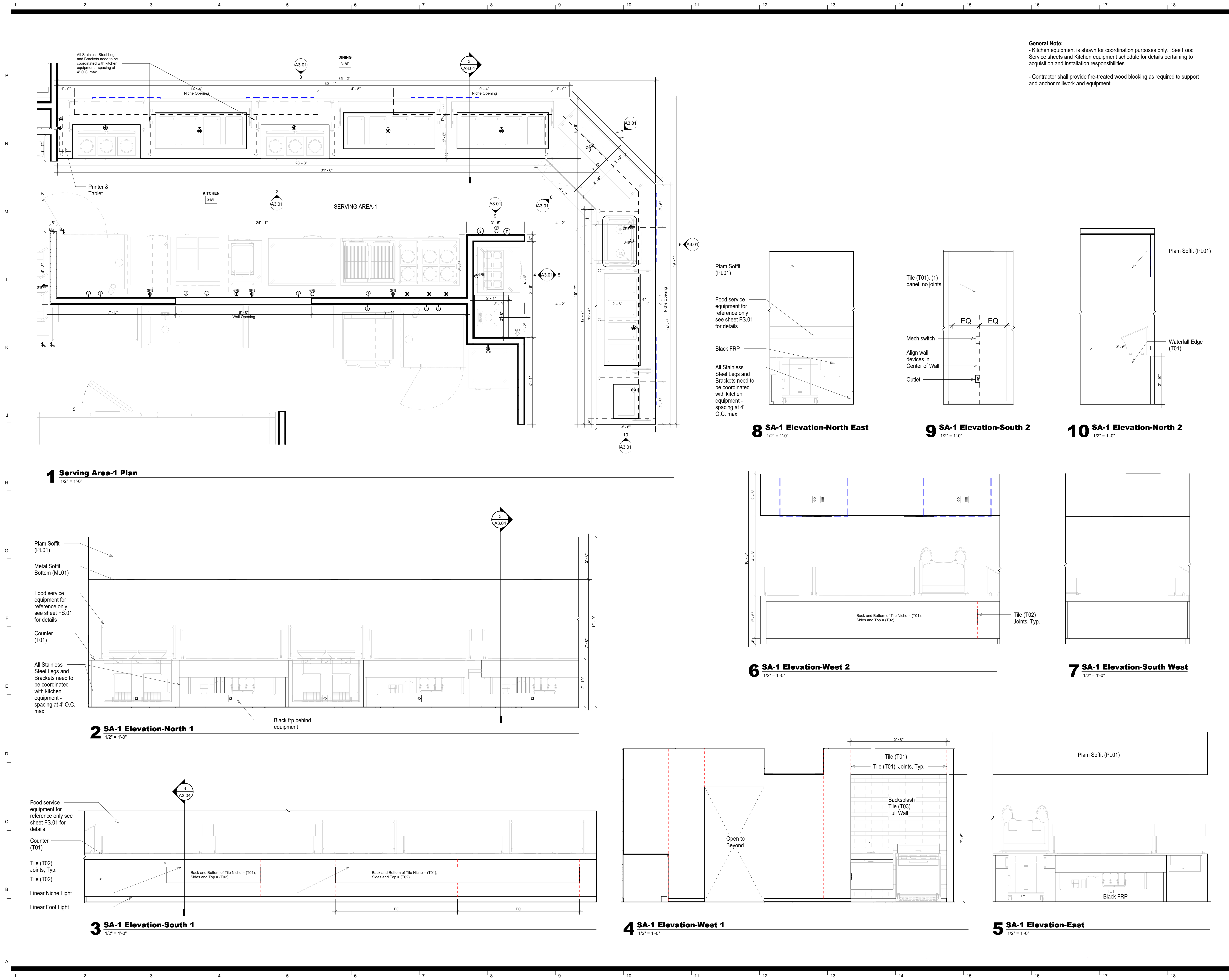
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**Plan Details -
Columns -
Alternate#2**

sheet number

A2.06A



General Note:
- Kitchen equipment is shown for coordination purposes only. See Food Service sheets and Kitchen equipment schedule for details pertaining to acquisition and installation responsibilities.

- Contractor shall provide fire-treated wood blocking as required to support and anchor millwork and equipment.



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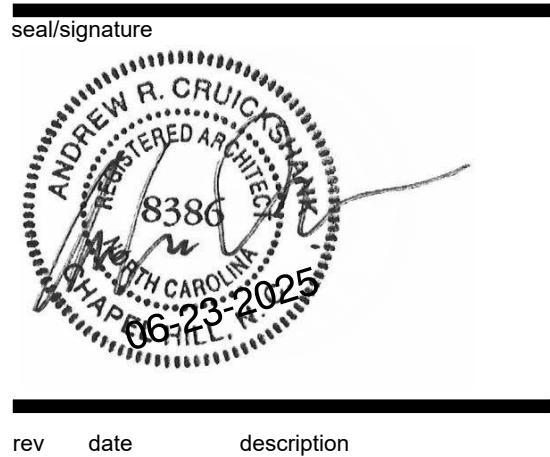
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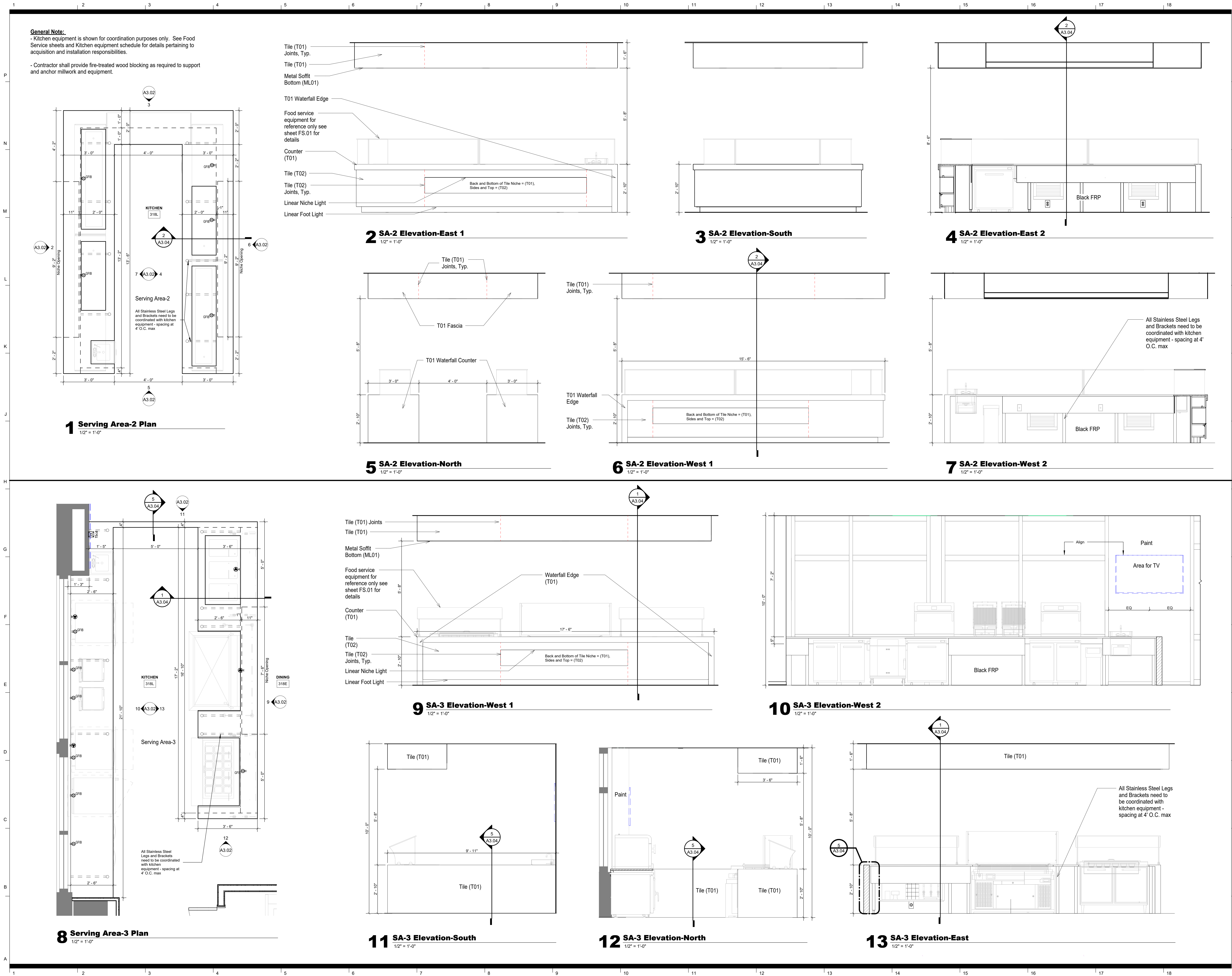
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Casework

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A3.01



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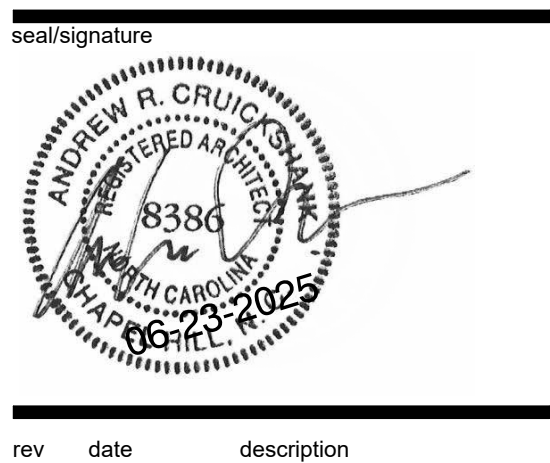
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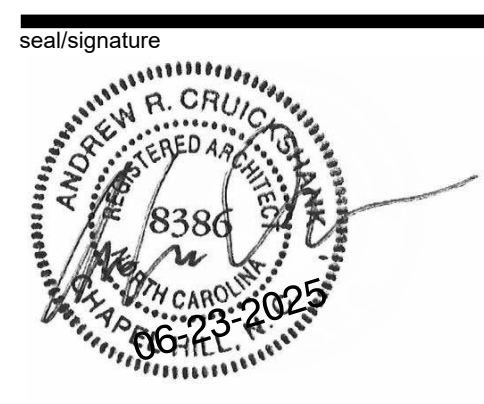
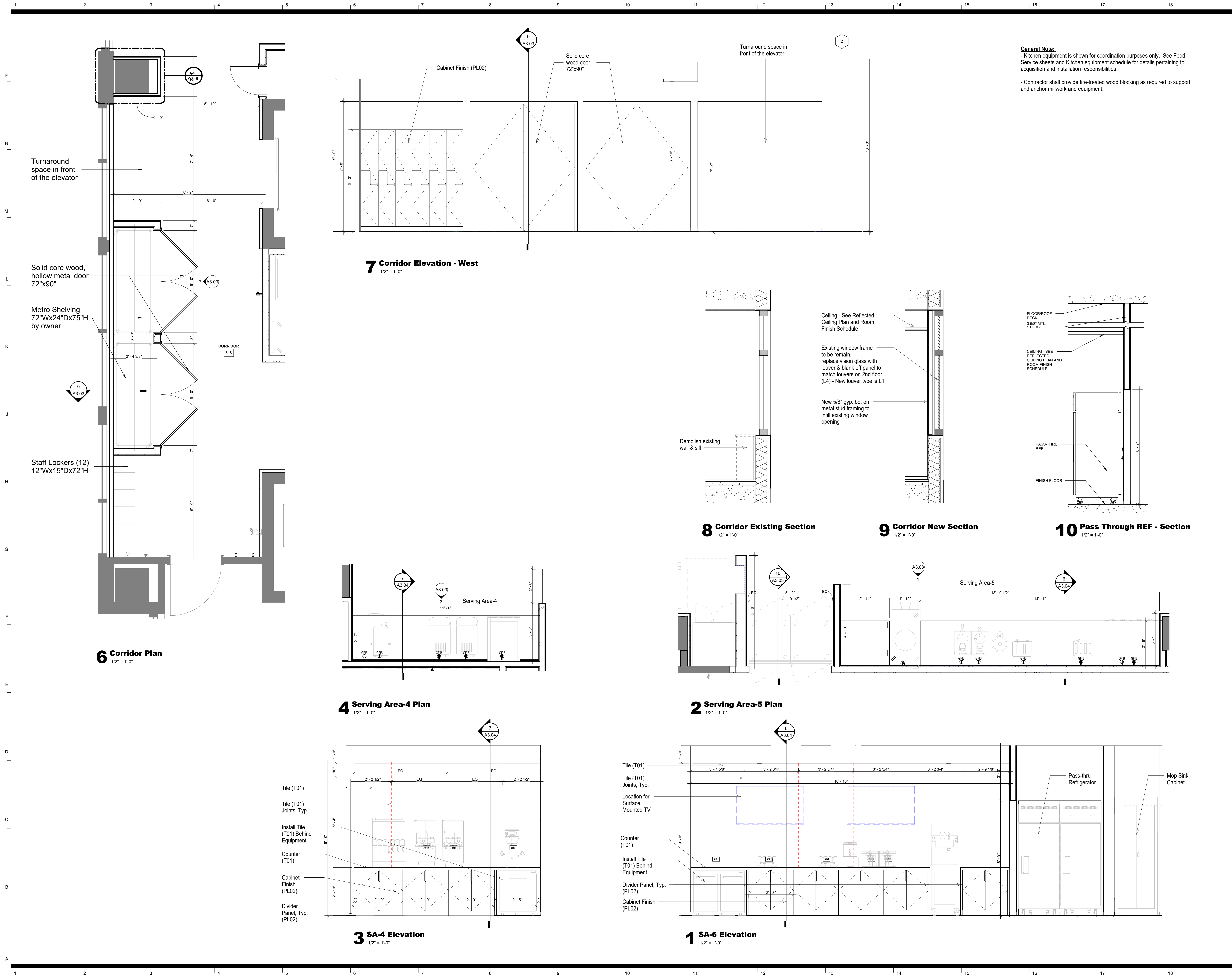
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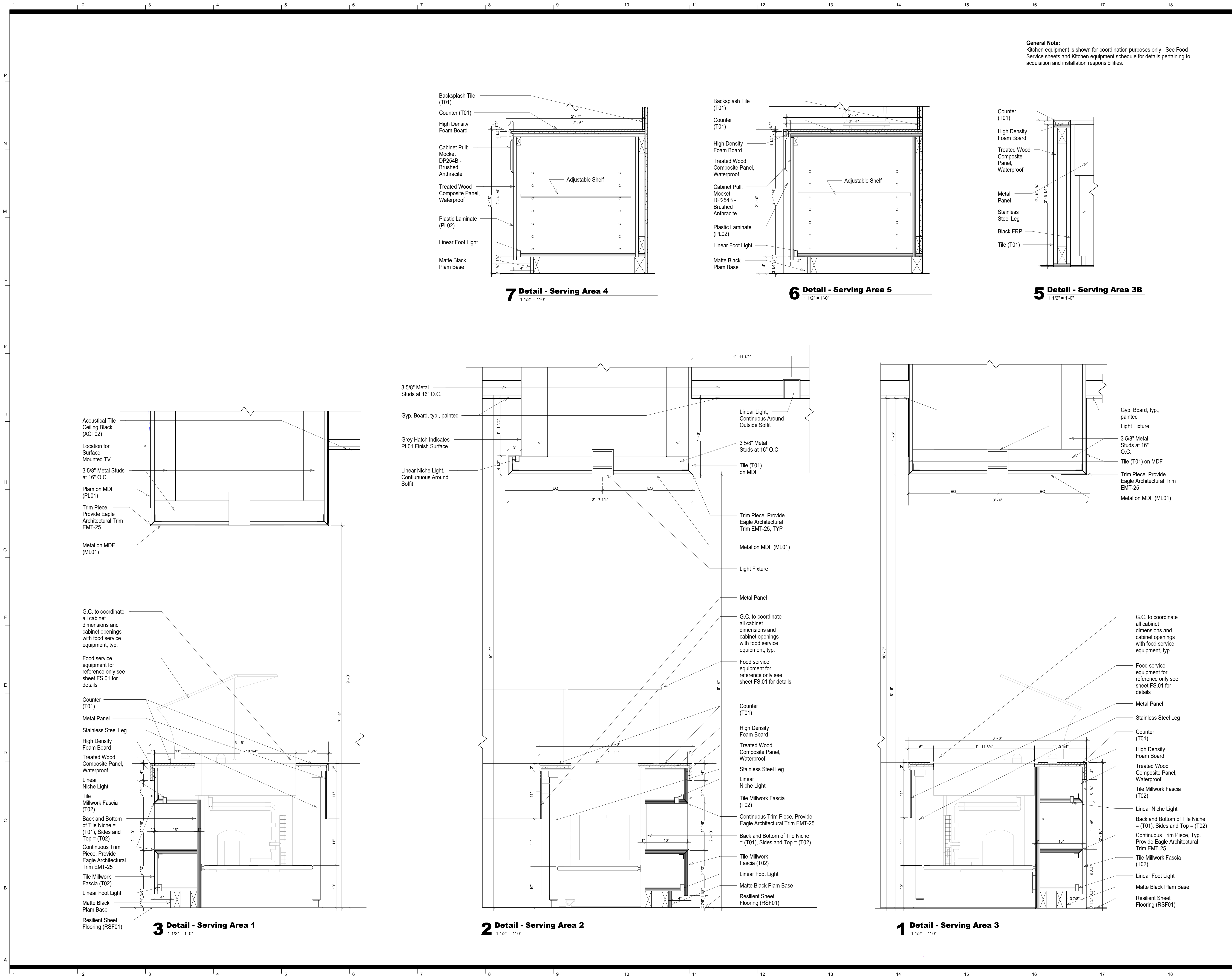
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Casework

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A3.02





General Note:
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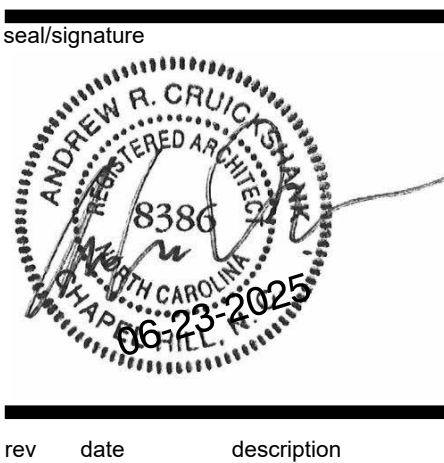
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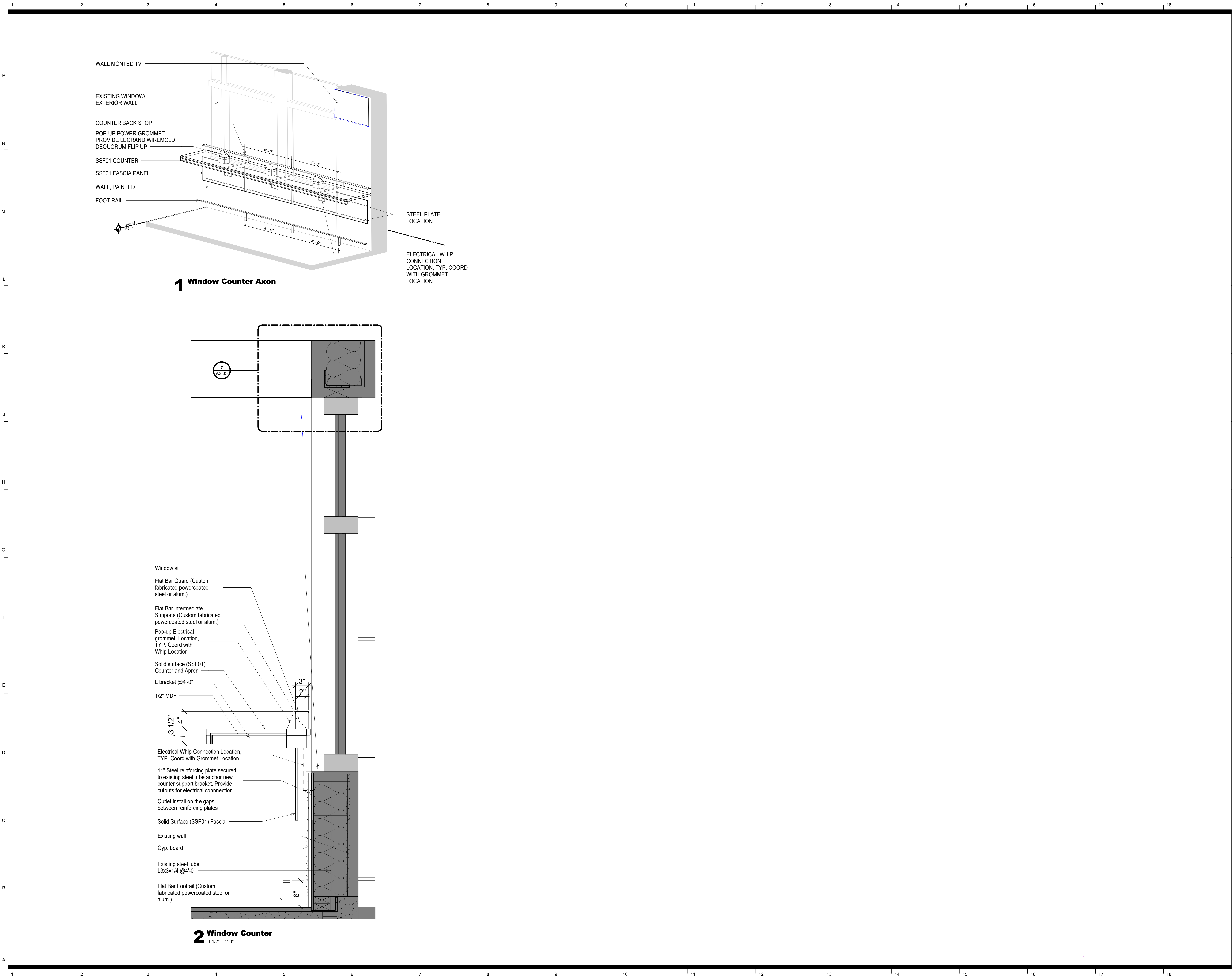
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Casework Details

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A3.04



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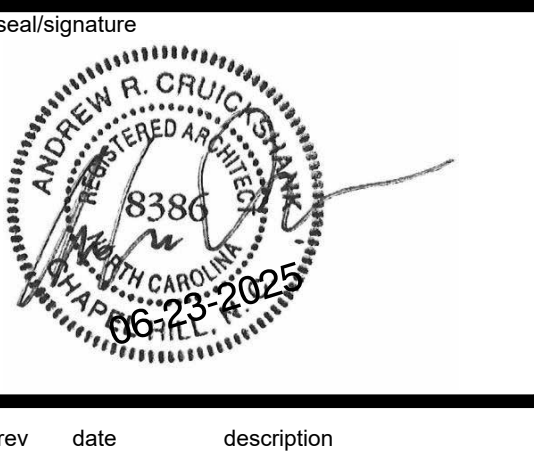
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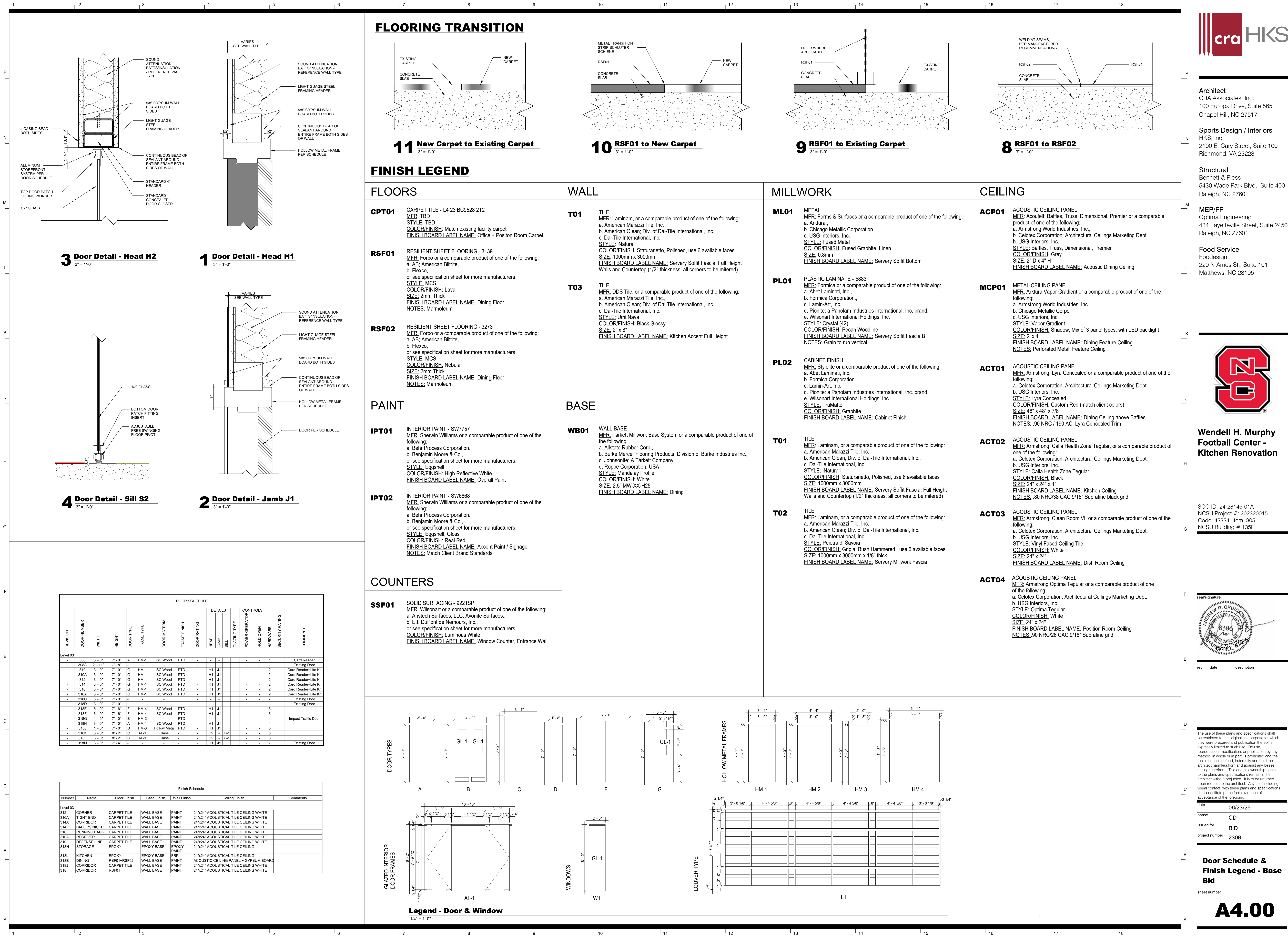
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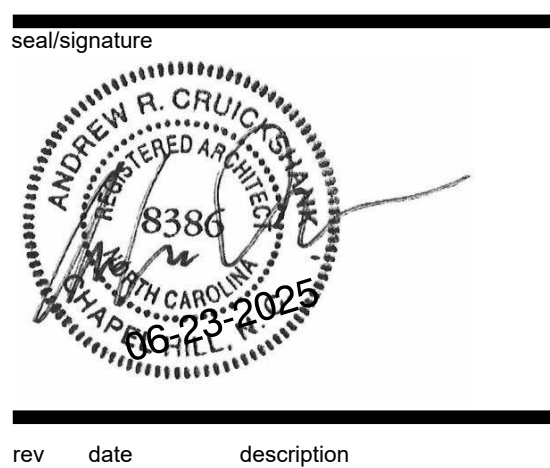
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NCSU Building #:135F



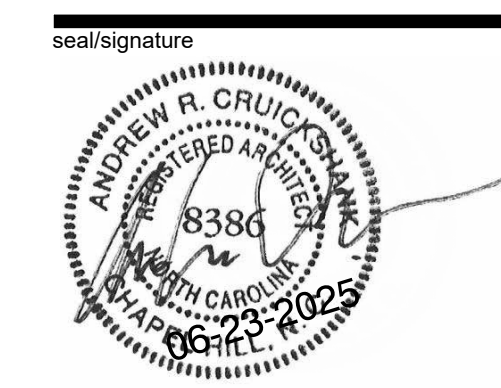
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date 06/23/25
phase CD
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project number 2308

**Door Schedule &
Finish Legend - Base
Bid**

sheet number

A4.00



rev	date	description
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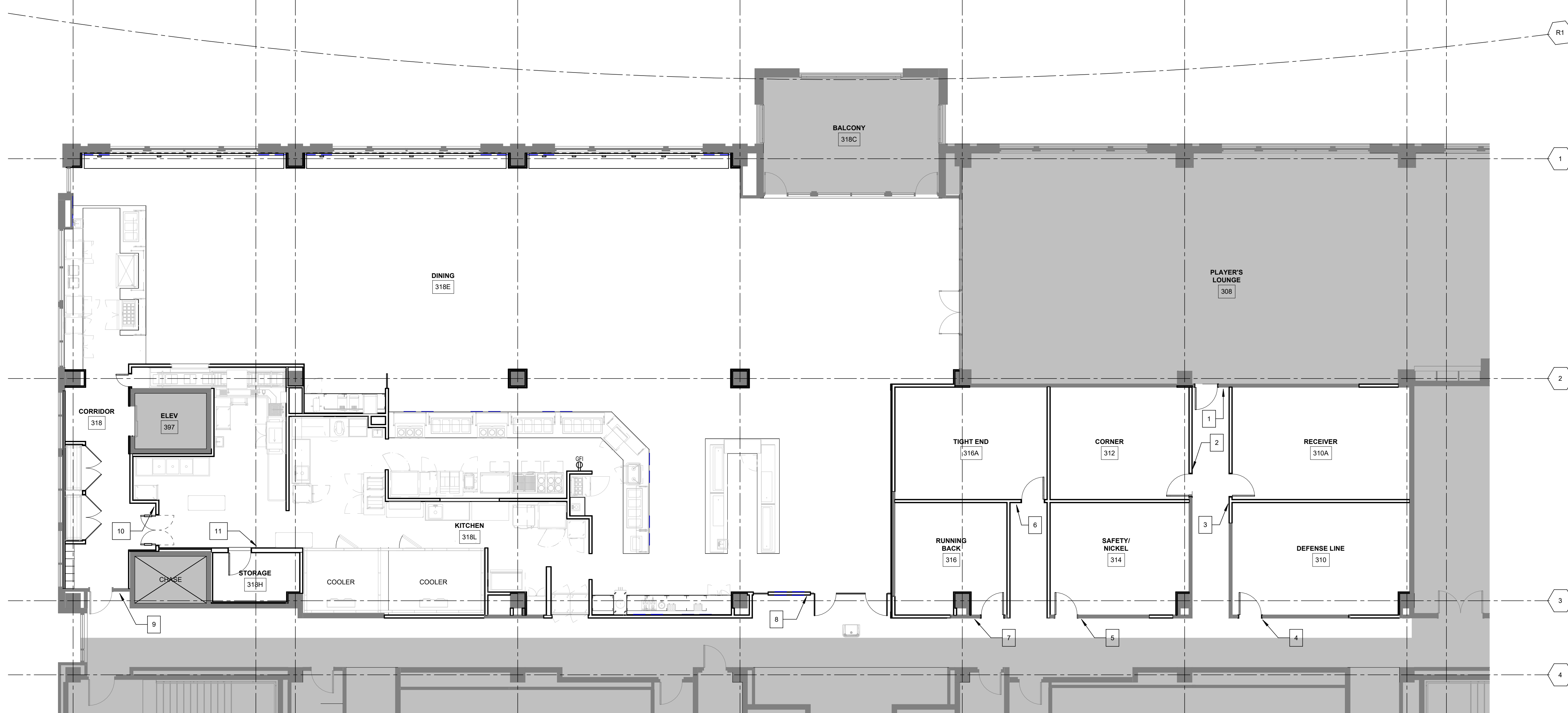
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Signage Plan

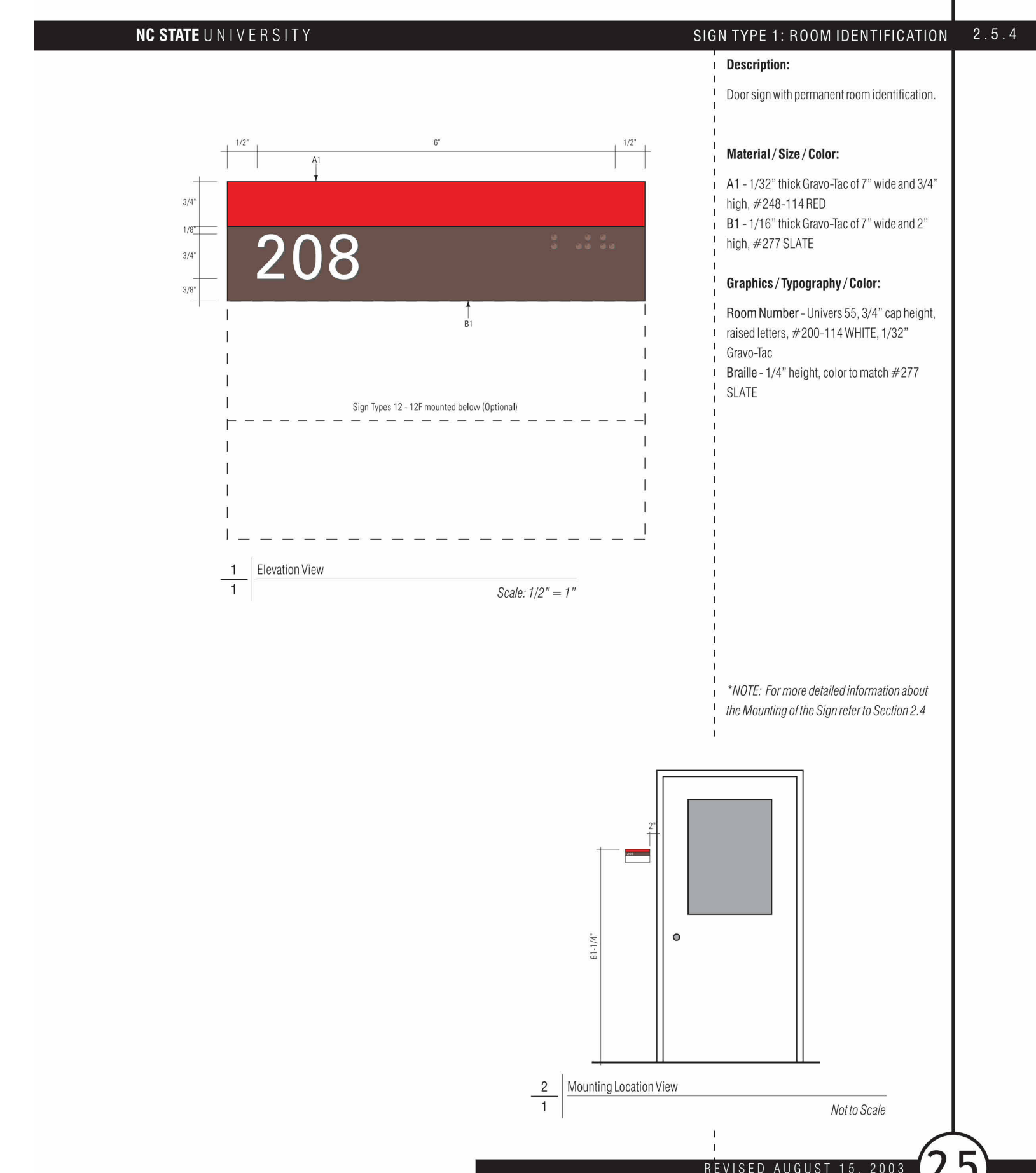
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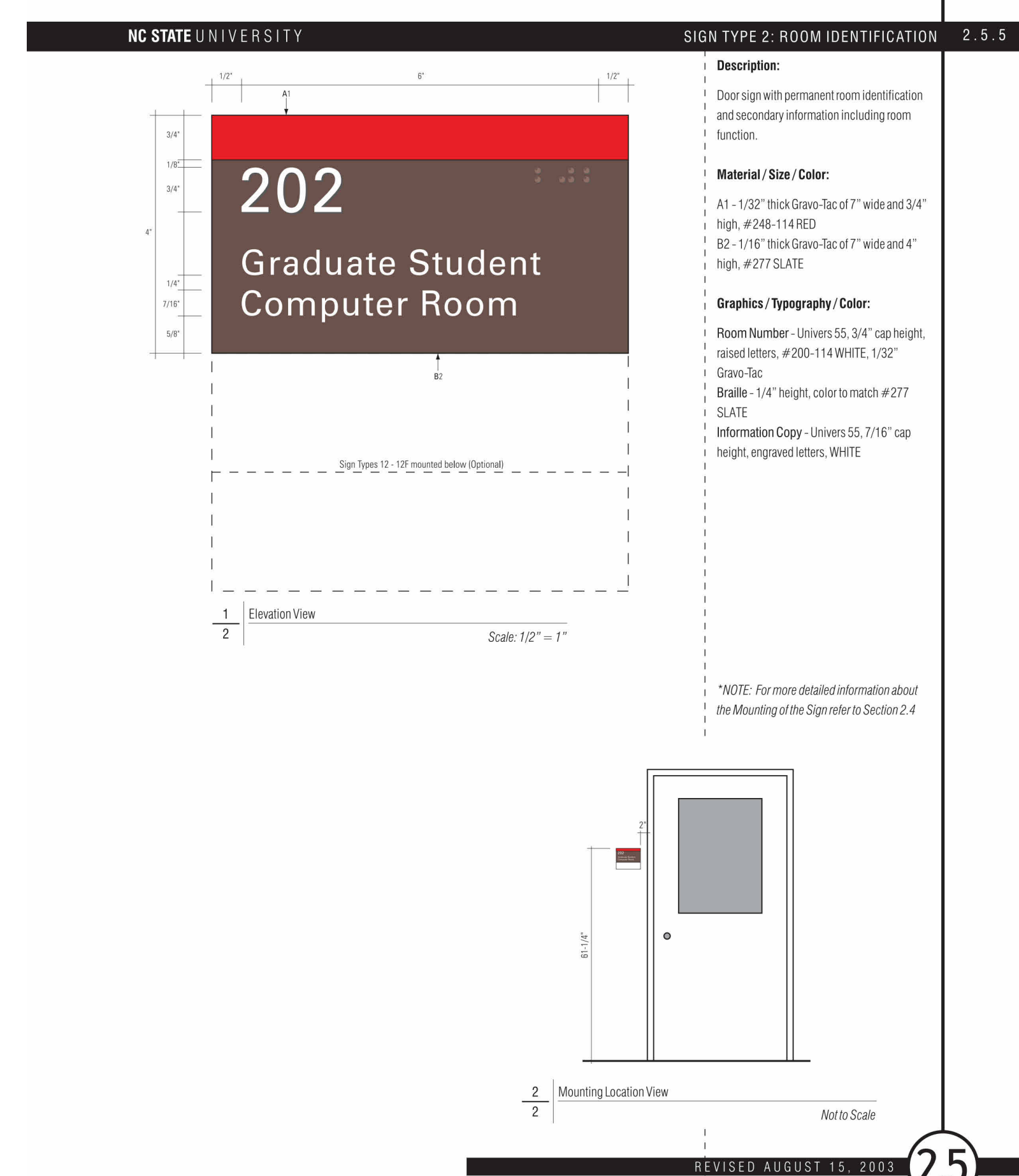


1 LEVEL 03 - SIGNAGE PLAN

$1/8" = 1'-0"$




















Standard NC State Signage Type




Standard NC State Signage Schedule

Location Key	NC State Sign Type	NC State Permanent Room ID Number	Sign Message Text	Remarks
1	2	308	Player's Lounge	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille
2	2	312	Corner	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille
3	2	310A	Receiver	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille
4	2	310	Defense Line	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille
5	2	314	Safety Nickel	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille
6	2	316A	Tight End	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille
7	2	316	Running Back	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille
8	2	318E	Dining	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille
9	1	318	Corridor	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille
10	2	318L	Kitchen	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille
11	1	318H	Storage	Flexible Vinyl Sheet Sign w/ Raised Lettering & Braille












EXISTING/DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
	HALFTONE SYMBOL INDICATES EXISTING
	DASHED SYMBOL INDICATES REMOVED
	HATCHED SYMBOL INDICATES REMOVED

LIGHTING FIXTURE SYMBOLS AND DEVICES LEGEND	
SYMBOL	DESCRIPTION
	SUSPENDED OR PENDANT LIGHT FIXTURE.
	WALL MOUNTED LIGHTING FIXTURE.
	LED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE. SUSPEND FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
	RECESSED LED OR H.I.D. LIGHTING FIXTURE.
	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED IN LIGHTING SCHEDULE)
	RECESSED LINEAR LIGHT (TYPE DENOTED IN LIGHTING SCHEDULE)
	CEILING MOUNTED EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. SEE LIGHTING FIXTURE SCHEDULE.
	WALL MOUNTED EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. SEE LIGHTING FIXTURE SCHEDULE.
	SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER AH 1221, OR EQUAL BY HUBBELL, LEVITON AND PASS & SEYMOUR.
	THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1223, THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1223, OR EQUAL BY HUBBELL, LEVITON AND PASS & SEYMOUR.
	DIMMER SWITCH, LUTRON SERIES, OR EQUAL. VERIFY LOAD ON CIRCUIT AND MATCH DIMMER SIZE TO LOAD AND DEVICE QUANTITY. PROVIDE DOUBLE GANG J-BOX WITH SINGLE GANG TRIM PLATE. PROVIDE DIMMING SWITCH AS RECOMMENDED BY LIGHTING MANUFACTURER. MATCH SWITCH TYPE TO SOURCE (LED, FLUORESCENT, OR INCANDESCENT) WATTAGE, AND QUANTITY.
	0-10V DIMMER SWITCH. SEE DETAIL "CLASSROOM SWITCH CONTROL - DIMMING" FOR TYPE AND TYPICAL APPLICATION. 3WAY "3D" APPLICATION IS BASED ON ON/OFF LOW VOLTAGE SWITCH SWK-801 OR EQUAL.
	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY. SENSOR SWITCH CDM PDT 10, WATT STOPPER #DT-300, COOPER OAC-DT OR EQUAL.
	CEILING MOUNTED OCCUPANCY SENSOR POWER PACK. SENSOR SWITCH PP-20, WATT STOPPER #BZ-100, COOPER SP-20, OR EQUAL.

FLR. BOX OUTLETS-REC. FLUSH MOUNT F/R POKE LEGEND	
SYMBOL	DESCRIPTION
	FLUSH MOUNTED FIRE RATED POKE THRU DEVICE WITH ACCESSIBLE COVER FOR POWER AND COMMUNICATIONS. PROVIDE TWO NEMA 5-20 DUPLEX RECEPTACLES AND TWO COMMUNICATION PLATES FOR TWO R4S CAGE JACKS ON EACH PLATE. LEGRAND EVOLUTION EAT, OR APPROVED EQUAL BY HUBBELL OR EATON. ARCHITECT TO SELECT FINISH. ON DESIGN, PROVIDE ONE CONCEALED 2" C. ROUTED TO NEAREST RAYWAY.

Note: CONTRACTOR SHALL VERIFY WITH ARCHITECT THE FLOOR FINISH PRIOR TO ORDERING MATERIAL. PROVIDE ALL NECESSARY SHIMS, TRIM PLATES, ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.

TELECOM LEGAL - ELECTRICAL	
SYMBOL	DESCRIPTION
◀	<p>DATA OUTLET ABOVE COUNTER OR HEIGHT SPECIFIED. MINIMUM 1' CONDUIT FROM ABOVE NEAREST TELECOM RACEWAY. CONDUIT STUB UP OR J-HOOKS NOT ALLOWED. 4" SQUARE BOX WITH A DOUBLE-GANG OPENING AND PLASTER RING. DATA/TELEPHONE DROPS, NUMBER INDICATES NUMBER OF JACKS/CABLES IN FACED. HEIGHT AS INDICATED.</p> <p>DATA OUTLET. MINIMUM 1 1/4" CONDUIT FROM ABOVE NEAREST TELECOM RACEWAY. CONDUIT STUB UP OR J-HOOKS NOT ALLOWED. 4" SQUARE BOX WITH A DOUBLE-GANG OPENING AND PLASTER RING. SUBSCRIPT NEXT TO OUTLET INDICATES DATA DROPS. IF CABLE QUANTITY AND SERVICE ARE NOT IDENTIFIED, THEN PATHWAY ONLY OR REFER TO TECHNOLOGY DRAWINGS FOR CABLE AND ACTIVATION TYPE.</p> <p>STRUCTURE MOUNTED JUNCTION BOX FOR WIRELESS ACCESS POINT IN CEILING APPLICATIONS. 4" SQUARE BOX WITH A TWO-GANG OPENING. MINIMUM 1' CONDUIT FROM BOX TO ABOVE NEAREST TELECOM RACEWAY. CONDUIT STUB UP OR J-HOOKS NOT ALLOWED. REFER TO TECHNOLOGY DRAWINGS FOR CABLE QUANTITY AND SERVICE. COORDINATE PLACEMENT, COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH NCSCU COMTECH PROJECT TO ROUGH-IN.</p> <p>STRUCTURE MOUNTED JUNCTION BOX FOR WIRELESS ACCESS POINT ON WALL MOUNTED APPLICATIONS. 4" SQUARE BOX WITH A TWO-GANG OPENING. MINIMUM 1' CONDUIT FROM BOX TO ABOVE NEAREST TELECOM RACEWAY. CONDUIT STUB UP OR J-HOOKS NOT ALLOWED. REFER TO TECHNOLOGY DRAWINGS FOR CABLE QUANTITY AND SERVICE. COORDINATE PLACEMENT, COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH NCSCU COMTECH PROJECT TO ROUGH-IN.</p>

SYMBOL		DESCRIPTION
		DUPLEX RECEPTACLE CEILING MOUNTED
		JUNCTION BOX WITH CONNECTION TO EQUIPMENT SERVED. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
		CEILING MOUNT JUNCTION BOX WITH CONNECTION TO EQUIPMENT SERVED
		208Y/120V THREE PHASE PANELBOARD. SEE SCHEDULE FOR MOUNTING. TOP OF PANEL AT 6" AFF.
		480Y/277V THREE PHASE PANELBOARD. SEE SCHEDULE FOR MOUNTING. TOP OF PANEL AT 6" AFF.
		480-208Y/120V TRANSFORMER. SEE RISER FOR SIZE. PROVIDE 4" THICK HOUSEKEEPING PAD TO EXTEND 3" ON SIDES. FRONT WITH CHAMFER EDGE AND OSHA COMPLIANT, SAFETY YELLOW, EPOXY PAINT SUITABLE FOR CONCRETE.
		SPECIAL OUTLET. SEE PLANS.
		FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED. UNSHADED INDICATES NON-FUSED.
		NON-FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED. UNSHADED INDICATES NON-FUSED.
		FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER, WITH OVERLOAD PROTECTION
		ALL THINGS "X" CAN BE: T = TIMER, (0 - 4) HOUR MANUAL TIMER SWITCH, F = FAN SWITCH, VARIABLE SPEED FAN SWITCH

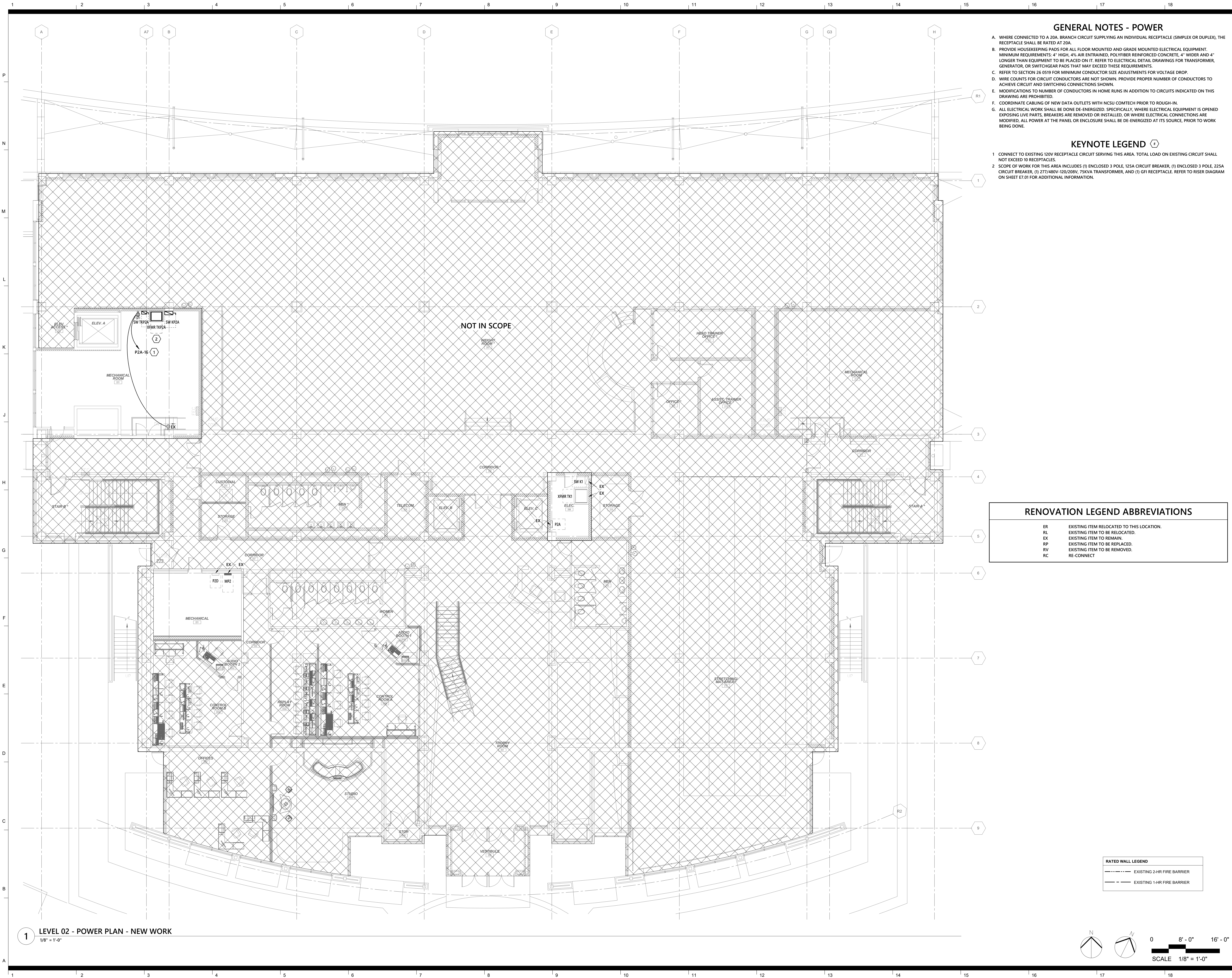
ELECTRICAL FIXTURES LEGEND - COMMERCIAL	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER BACKSLASH, COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT COOPER 5362 OR EQUIV.
	ALL THINGS "X" CAN BE F = FLOOR PEDESTAL RECEPTACLE. REFER TO DETAIL #2 / SHEET ES.01.
	GROUND FAULT RECEPTACLE NEMA 5-20R DUPLEX. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.
	GROUND FAULT RECEPTACLE - BREAKER AT PANEL, NEMA 5-20R DUPLEX. MOUNTED ABOVE COUNTER, OR AT HEIGHT NOTED. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.
	GROUND FAULT RECEPTACLE - BREAKER AT PANEL, NEMA 5-20R DUPLEX. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.
	GROUND FAULT DUPLEX RECEPTACLE, NEMA 5-20R MOUNTED ABOVE COUNTER BACKSLASH OR AT HEIGHT NOTED.
	WEATHERPROOF GROUND FAULT RECEPTACLE, NEMA 5-20R DUPLEX, CORROSION RESISTANT, WITH N-USE COVER.
	QUAD RECEPTACLE, TWO NEMA 5-20R DUPLEX RECEPTACLES, OTHERWISE SAME AS DUPLEX RECEPTACLE ABOVE.

DISCONNECT SIZE DESCRIPTION

_____ A-F _____ A- _____ P- _____

FRAME SIZE FUSE SIZE NUMBER OF POLES NEMA RATING





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Structural
Bennett & Pless
5430 Wade Park Blvd., Suite 400
Raleigh, NC 27601

MEP/FP
Optima Engineering
434 Fayetteville Street, Suite 2450
Raleigh, NC 27601
NC License Number: C-0914

Food Service
Foodesign
220 N Ames St., Suite 101
Matthews, NC 28105



**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F

seal/signature



rev date description

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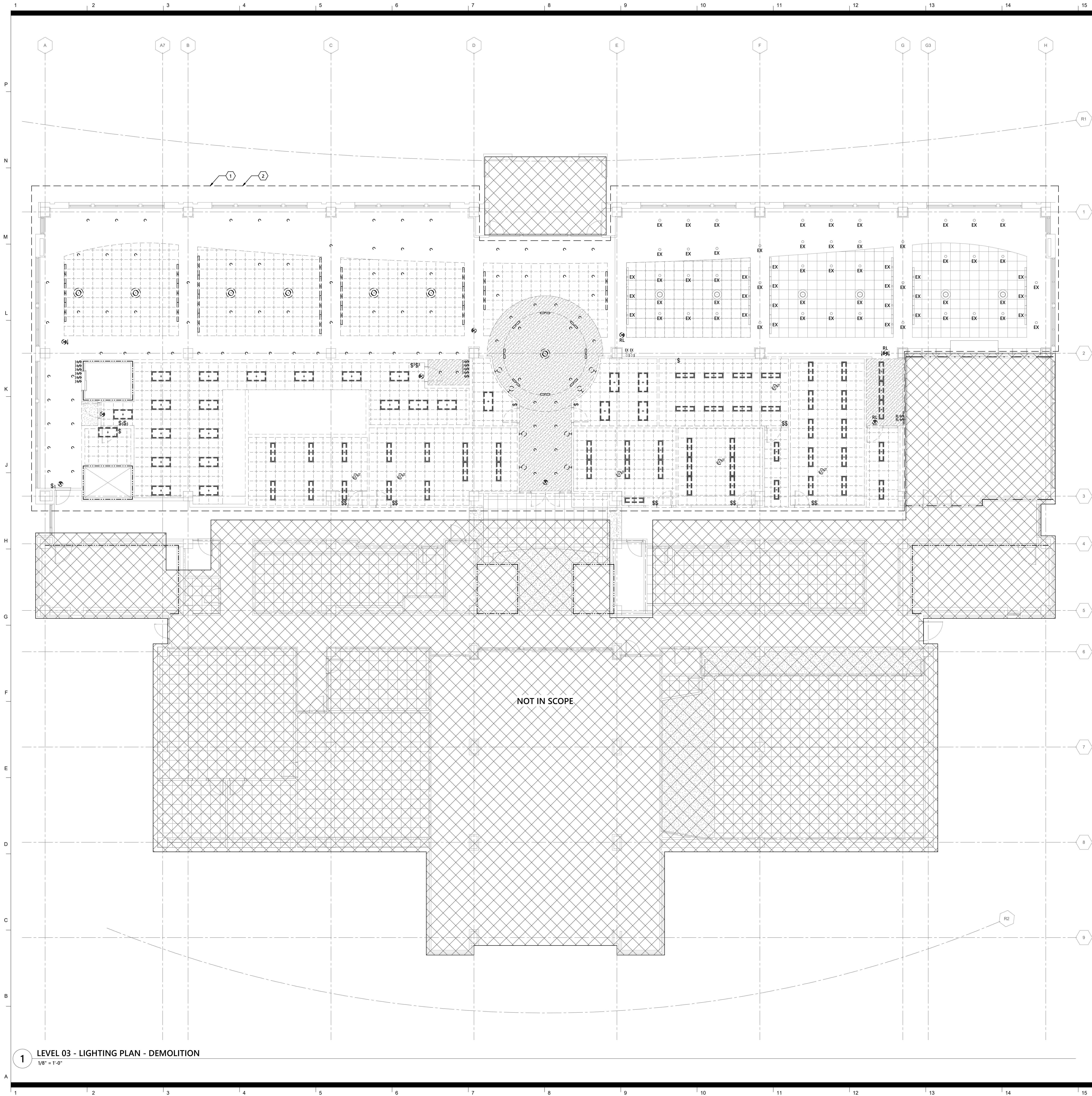
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project number 2308

**LEVEL 02 - POWER
PLAN - NEW WORK**

sheet number

E2.01

OPTIMAR 24-0096R Sheet No. 4 of 24



GENERAL NOTES - DEMOLITION

- A. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- B. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- D. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- E. COORDINATE WITH NCSU COMTECH TO FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS DIRECTED BY NCSU COMTECH. COORDINATE WITH NCSU COMTECH TO PULL TEMPORARY CABLING AS NEEDED.
- F. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- G. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).
- H. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
- I. COORDINATE THE REMOVAL OF ANY WIRELESS ACCESS POINTS, DATA OUTLETS, AND CABLING WITH NCSU COMTECH PRIOR TO DEMOLITION PHASE.

KEYNOTE LEGEND 1

1. ALL DASHED ITEMS WITHIN THIS AREA OF WORK ARE TO BE REMOVED UNLESS OTHERWISE NOTED. ALL SCRAP METAL AND WIRING TO BE SOURCE SEPARATED AND RECYCLED. COORDINATE PHASED RECYCLING PLAN WITH NCSU WASTE REDUCTION & RECYCLING PRIOR TO DEMOLITION PHASE.
2. RETAIN ALL EXISTING CIRCUITS FOR LIGHTING FIXTURES BEING DEMOLISHED IN THIS AREA OF WORK.

RENOVATION LEGEND ABBREVIATIONS

ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

RATED WALL LEGEND

----	EXISTING 2-HR FIRE BARRIER
----	EXISTING 1-HR FIRE BARRIER



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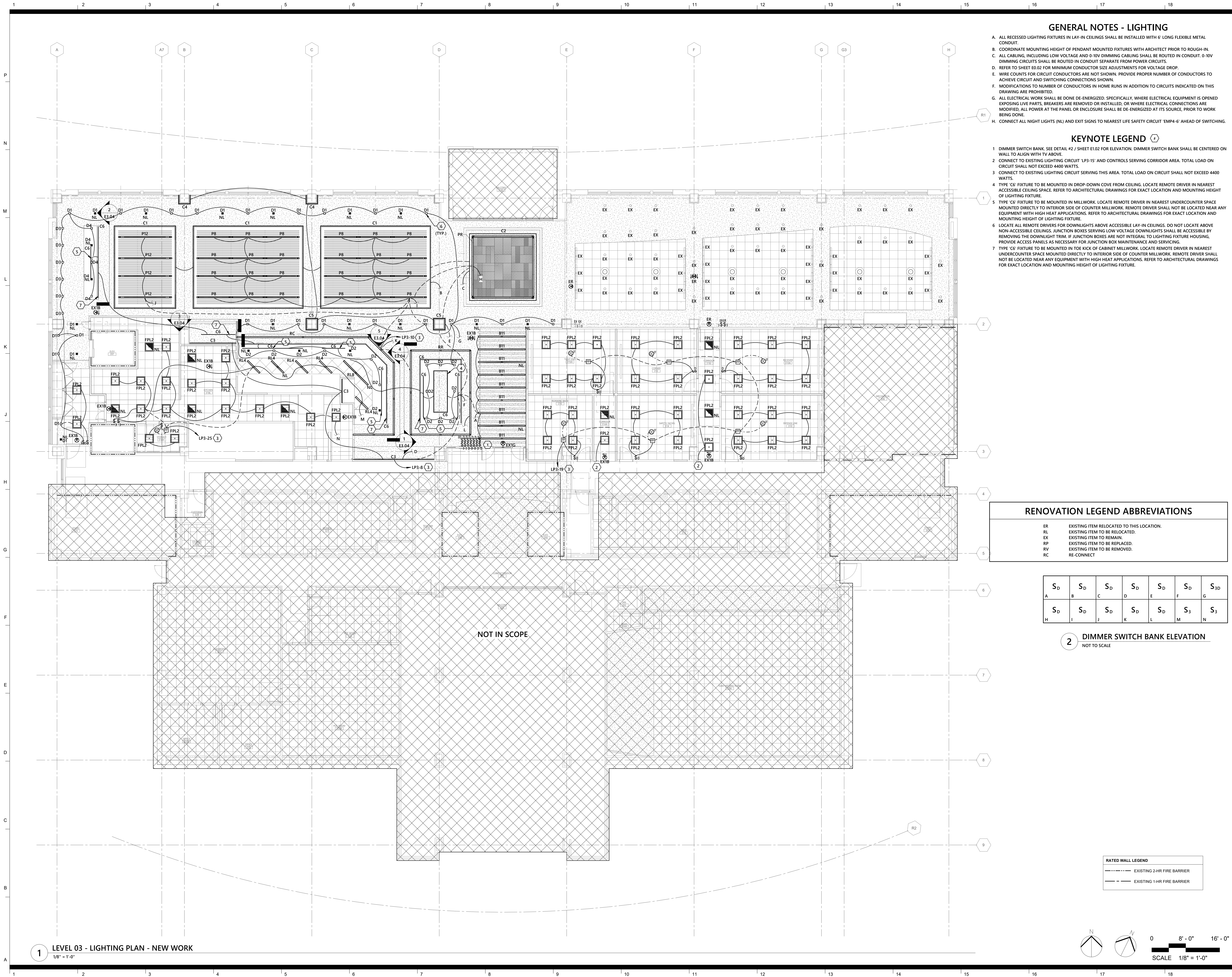
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**LEVEL 03 -
LIGHTING PLAN -
DEMOLITION**

sheet number

E3.01



GENERAL NOTES - LIGHTING

- ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- COORDINATE MOUNTING HEIGHT OF PENDANT MOUNTED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL CABLING, INCLUDING LOW VOLTAGE AND 0-10V DIMMING CABLING SHALL BE ROUTED IN CONDUIT. 0-10V DIMMING CIRCUITS SHALL BE ROUTED IN CONDUIT SEPARATE FROM POWER CIRCUITS.
- REFER TO SHEET E0.02 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED. SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED, ALL POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.
- CONNECT ALL NIGHT LIGHTS (NL) AND EXIT SIGNS TO NEAREST LIFE SAFETY CIRCUIT 'EMP4-6' AHEAD OF SWITCHING.

KEYNOTE LEGEND

- DIMMER SWITCH BANK. SEE DETAIL #2 / SHEET E1.02 FOR ELEVATION. DIMMER SWITCH BANK SHALL BE CENTERED ON WALL TO ALIGN WITH TV ABOVE.
- CONNECT TO EXISTING LIGHTING CIRCUIT 'LP3-15' AND CONTROLS SERVING CORRIDOR AREA. TOTAL LOAD ON CIRCUIT SHALL NOT EXCEED 4400 WATTS.
- CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA. TOTAL LOAD ON CIRCUIT SHALL NOT EXCEED 4400 WATTS.
- TYPE 'C6' FIXTURE TO BE MOUNTED IN DROP-DOWN COVE FROM CEILING. LOCATE REMOTE DRIVER IN NEAREST ACCESSIBLE CEILING SPACE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.
- TYPE 'C6' FIXTURE TO BE MOUNTED IN MILLWORK. LOCATE REMOTE DRIVER IN NEAREST UNDERCOUNTER SPACE MOUNTED DIRECTLY TO INTERIOR SIDE OF COUNTER MILLWORK. REMOTE DRIVER SHALL NOT BE LOCATED NEAR ANY EQUIPMENT WITH HIGH HEAT APPLICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.
- LOCATE ALL REMOTE DRIVERS FOR DOWNLIGHTS ABOVE ACCESSIBLE LAY-IN CEILINGS. DO NOT LOCATE ABOVE NON-ACCESSIBLE CEILINGS. JUNCTION BOXES SERVING LOW VOLTAGE DOWNLIGHTS SHALL BE ACCESSIBLE BY REMOVING THE DOWNLIGHT TRIM. IF JUNCTION BOXES ARE NOT INTEGRAL TO LIGHTING FIXTURE HOUSING, PROVIDE ACCESS PANELS AS NECESSARY FOR JUNCTION BOX MAINTENANCE AND SERVICING.
- TYPE 'C6' FIXTURE TO BE MOUNTED IN TOE KICK OF CABINET MILLWORK. LOCATE REMOTE DRIVER IN NEAREST UNDERCOUNTER SPACE MOUNTED DIRECTLY TO INTERIOR SIDE OF COUNTER MILLWORK. REMOTE DRIVER SHALL NOT BE LOCATED NEAR ANY EQUIPMENT WITH HIGH HEAT APPLICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.

RENOVATION LEGEND ABBREVIATIONS

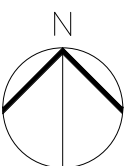
ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

S _D	S _D	S _D	S _D	S _D	S _D	S _{3D}
A	B	C	D	E	F	G
S _D	S _D	S _D	S _D	S _D	S ₃	S ₃
H	I	J	K	L	M	N

2 DIMMER SWITCH BANK ELEVATION

NOT TO SCALE

RATED WALL LEGEND	
---	EXISTING 2-HR FIRE BARRIER
---	EXISTING 1-HR FIRE BARRIER



0 8' - 0" 16' - 0"
SCALE 1/8" = 1'-0"



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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F

seal/signature



rev date description

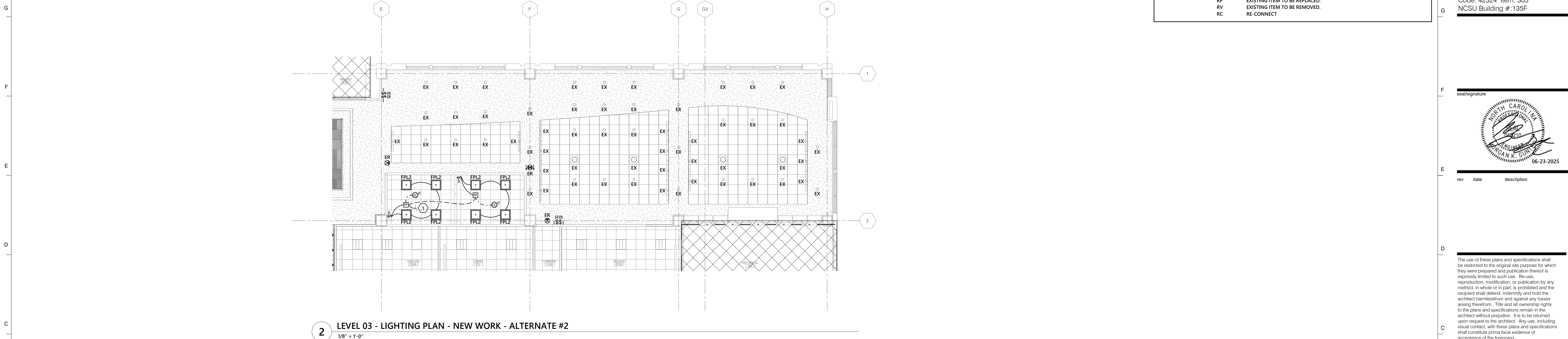
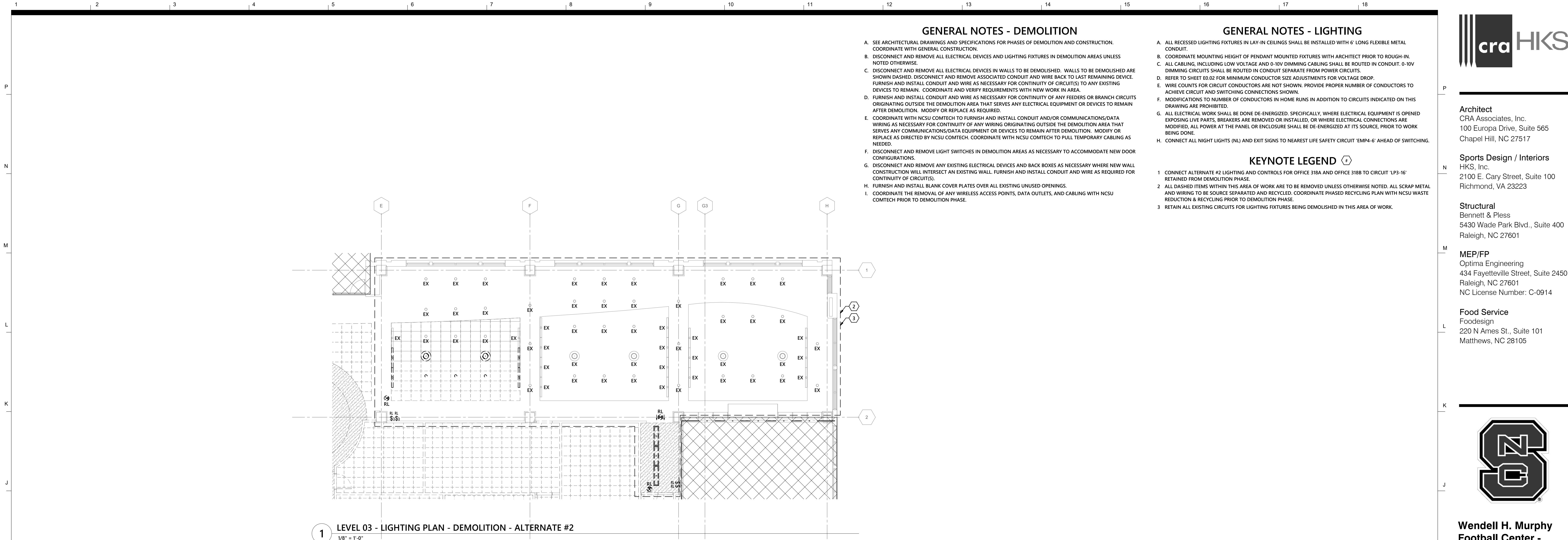
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project number 2308

**LEVEL 03 -
LIGHTING PLAN -
NEW WORK**

sheet number

E3.02



- A. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- B. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. DISCONNECT AND REMOVE ALL ELECTRICAL AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUITS TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- D. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN IN AREA. COORDINATE WITH NEW WORK IN AREA.
- E. COORDINATE WITH NCSU COMTECH TO FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPAIR AS DIRECTED BY NCSU COMTECH. COORDINATE WITH NCSU COMTECH TO PULL TEMPORARY CABLEING AS NEEDED.
- F. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR OR WINDOW OPENINGS.
- G. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUITS.
- H. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSUED OPENINGS.
- I. COORDINATE THE REMOVAL OF ANY WIRELESS ACCESS POINTS, DATA OUTLETS, AND CABLEING WITH NCSU COMTECH PRIOR TO DEMOLITION PHASE.

- A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6" LONG FLEXIBLE METAL CONDUIT.
- B. COORDINATE MOUNTING HEIGHT OF PENDANT MOUNTED FIXTURES WITH ARCHITECT PER REQUEST TO ROUGH-IN.
- C. ALL CABLING, INCLUDING LOW VOLTAGE AND 0-10V DIMMING CABLING SHALL BE ROUTED IN CONDUIT. 0-10V DIMMING CIRCUITS SHALL BE ROUTED IN CONDUIT SEPARATE FROM POWER CIRCUITS.
- D. REFER TO SHEET 602 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- E. WIRE COUNTERS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- F. MODIFICATION TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- G. ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED, SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS BE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED, POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PER WORK BEING DONE.
- H. CONNECT ALL NIGHT LIGHTS (N) AND EXIT SIGNS TO NEAREST LIFE SAFETY EQUIPMENT "EMPS-6" AHEAD OF SWITCHING.

1. CONNECT ALTERNATE #2 LIGHTING AND CONTROLS FOR OFFICE 318A AND OFFICE 318B TO CIRCUIT 'LP3-16' RETAINED FROM DEMOLITION PHASE.
2. ALL DASHED ITEMS WITHIN THIS AREA OF WORK ARE TO BE REMOVED UNLESS OTHERWISE NOTED. ALL SCRAP METAL AND WIRING TO BE SOURCE SEPARATED AND RECYCLED. COORDINATE PHASED RECYCLING PLAN WITH NCSU WASTE REDUCTION & RECYCLING PRIOR TO DEMOLITION PHASE.
3. RETAIN ALL EXISTING CIRCUITS FOR LIGHTING FIXTURES BEING DEMOLISHED IN THIS AREA OF WORK.

ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

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Code: 42324 Item: 305
NCSU Building #:135F

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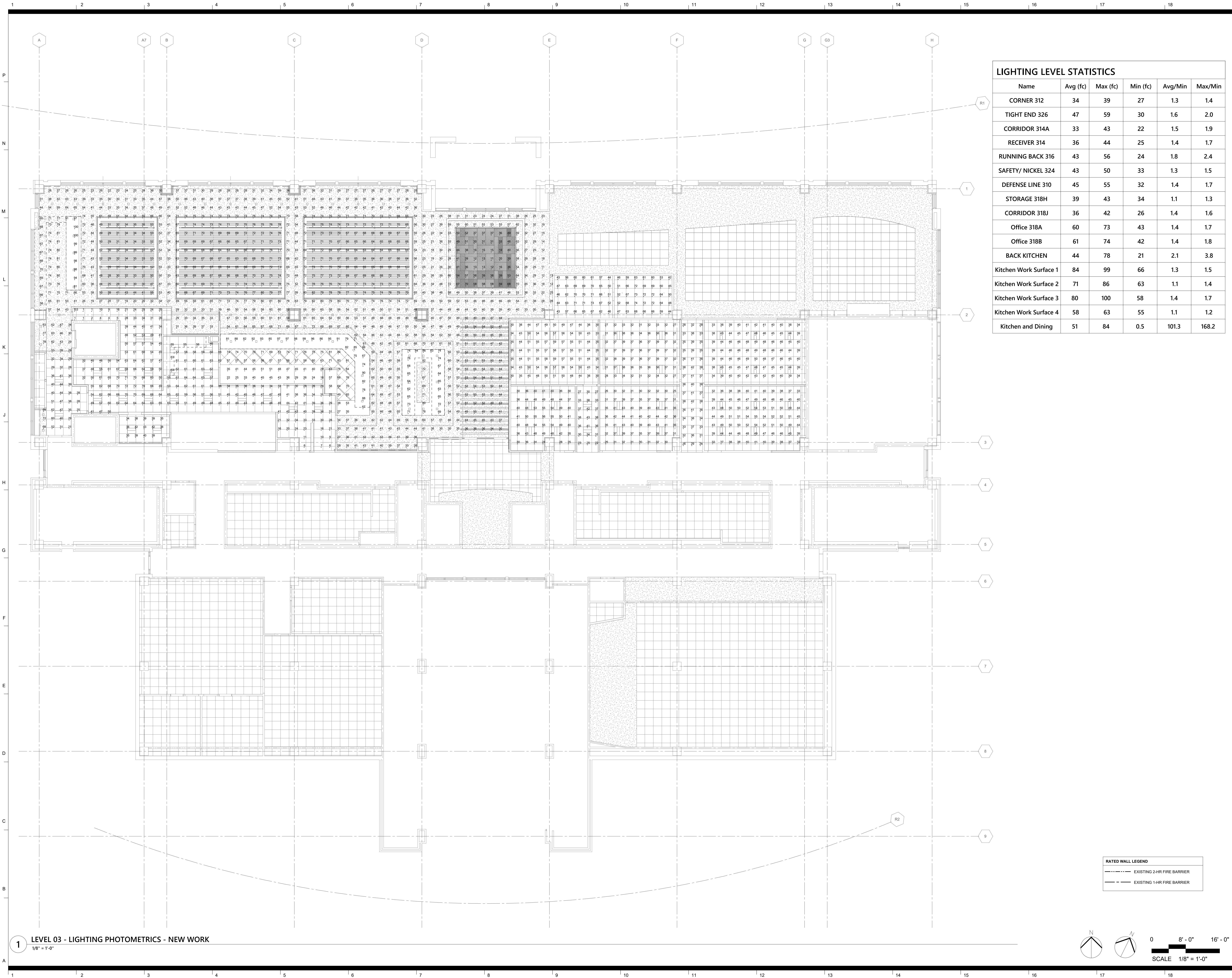
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**LEVEL 03 -
LIGHTING PLANS -
ALTERNATE #2**

sheet number

E3.02A

OPTIMA# 24-0096R Sheet No. 7 of 24



LIGHTING LEVEL STATISTICS					
Name	Avg (fc)	Max (fc)	Min (fc)	Avg/Min	Max/Min
CORNER 312	34	39	27	1.3	1.4
TIGHT END 326	47	59	30	1.6	2.0
CORRIDOR 314A	33	43	22	1.5	1.9
RECEIVER 314	36	44	25	1.4	1.7
RUNNING BACK 316	43	56	24	1.8	2.4
SAFETY/ NICKEL 324	43	50	33	1.3	1.5
DEFENSE LINE 310	45	55	32	1.4	1.7
STORAGE 318H	39	43	34	1.1	1.3
CORRIDOR 318J	36	42	26	1.4	1.6
Office 318A	60	73	43	1.4	1.7
Office 318B	61	74	42	1.4	1.8
BACK KITCHEN	44	78	21	2.1	3.8
Kitchen Work Surface 1	84	99	66	1.3	1.5
Kitchen Work Surface 2	71	86	63	1.1	1.4
Kitchen Work Surface 3	80	100	58	1.4	1.7
Kitchen Work Surface 4	58	63	55	1.1	1.2
Kitchen and Dining	51	84	0.5	101.3	168.2



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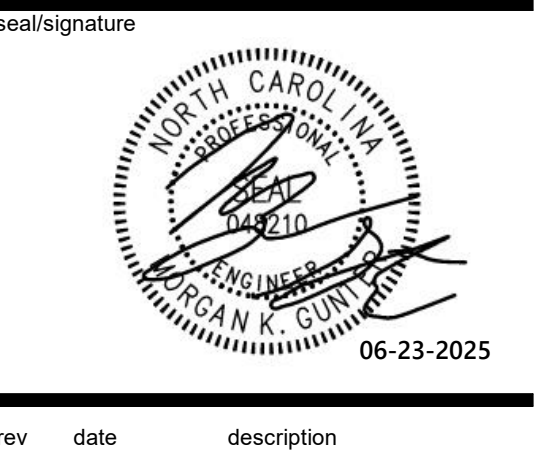
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Football Center -
Kitchen Renovation**

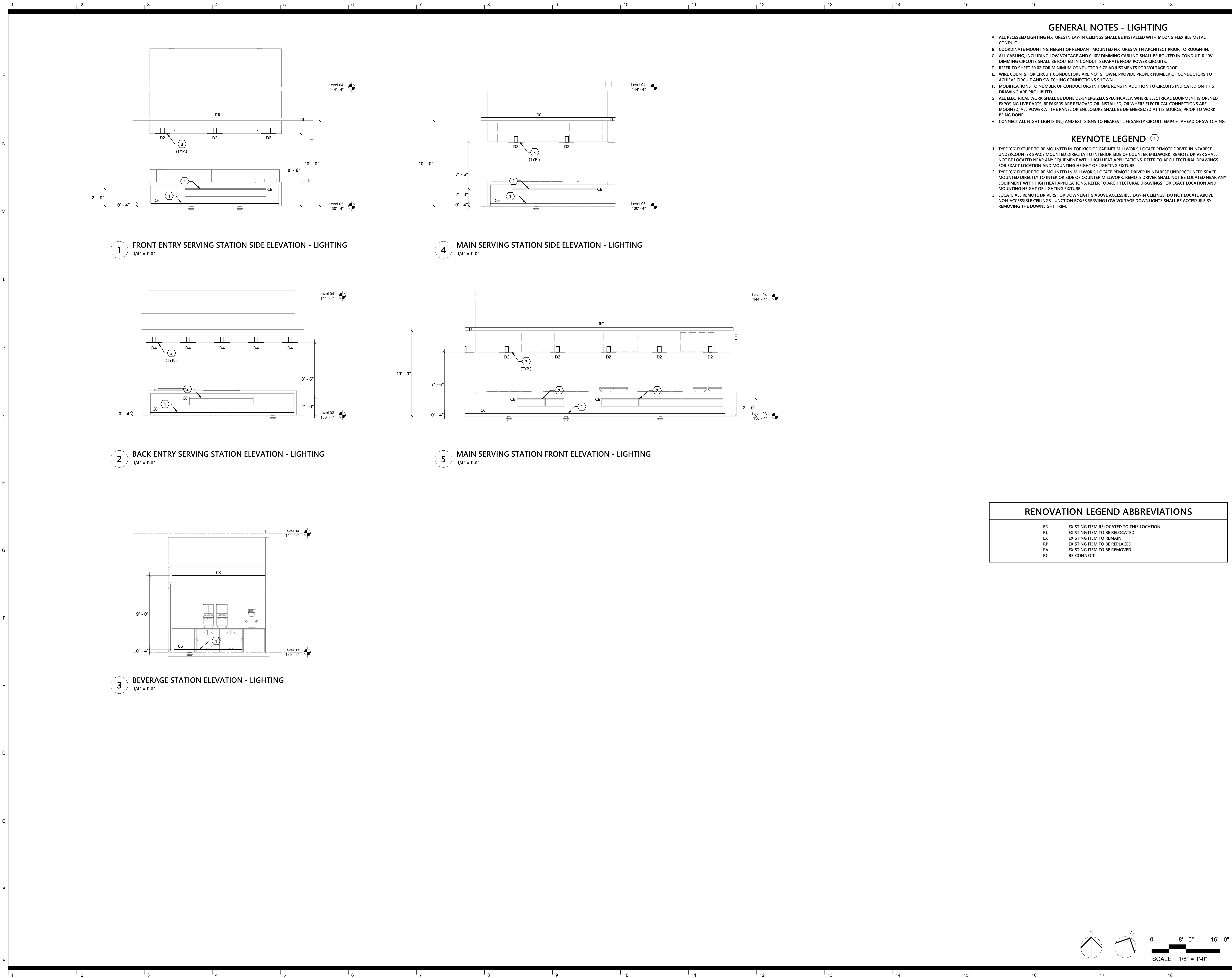
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**LEVEL 03 -
LIGHTING
PHOTOMETRICS**



GENERAL NOTES - LIGHTING

- A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- B. COORDINATE MOUNTING HEIGHT OF PENDANT MOUNTED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
- C. ALL CABLING, INCLUDING LOW VOLTAGE AND 0-10V DIMMING CABLING SHALL BE ROUTED IN CONDUIT. 0-10V DIMMING CIRCUITS SHALL BE ROUTED IN CONDUIT SEPARATE FROM POWER CIRCUITS.
- D. REFER TO SHEET E0.02 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- E. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- F. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- G. ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED. SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED, ALL POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.
- H. CONNECT ALL NIGHT LIGHTS (NL) AND EXIT SIGNS TO NEAREST LIFE SAFETY CIRCUIT 'EMP4-6' AHEAD OF SWITCHING.

KEYNOTE LEGEND

- 1. TYPE 'C6' FIXTURE TO BE MOUNTED IN TOE KICK OF CABINET MILLWORK. LOCATE REMOTE DRIVER IN NEAREST UNDERCOUNTER SPACE MOUNTED DIRECTLY TO INTERIOR SIDE OF COUNTER MILLWORK. REMOTE DRIVER SHALL NOT BE LOCATED NEAR ANY EQUIPMENT WITH HIGH HEAT APPLICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.
- 2. TYPE 'C6' FIXTURE TO BE MOUNTED IN MILLWORK. LOCATE REMOTE DRIVER IN NEAREST UNDERCOUNTER SPACE MOUNTED DIRECTLY TO INTERIOR SIDE OF COUNTER MILLWORK. REMOTE DRIVER SHALL NOT BE LOCATED NEAR ANY EQUIPMENT WITH HIGH HEAT APPLICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.
- 3. LOCATE ALL REMOTE DRIVERS FOR DOWNLIGHTS ABOVE ACCESSIBLE LAY-IN CEILINGS. DO NOT LOCATE ABOVE NON-ACCESSIBLE CEILINGS. JUNCTION BOXES SERVING LOW VOLTAGE DOWNLIGHTS SHALL BE ACCESSIBLE BY REMOVING THE DOWNLIGHT TRIM.

RENOVATION LEGEND ABBREVIATIONS

ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT



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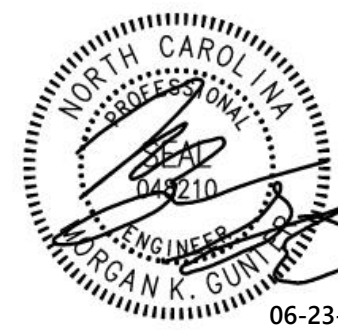
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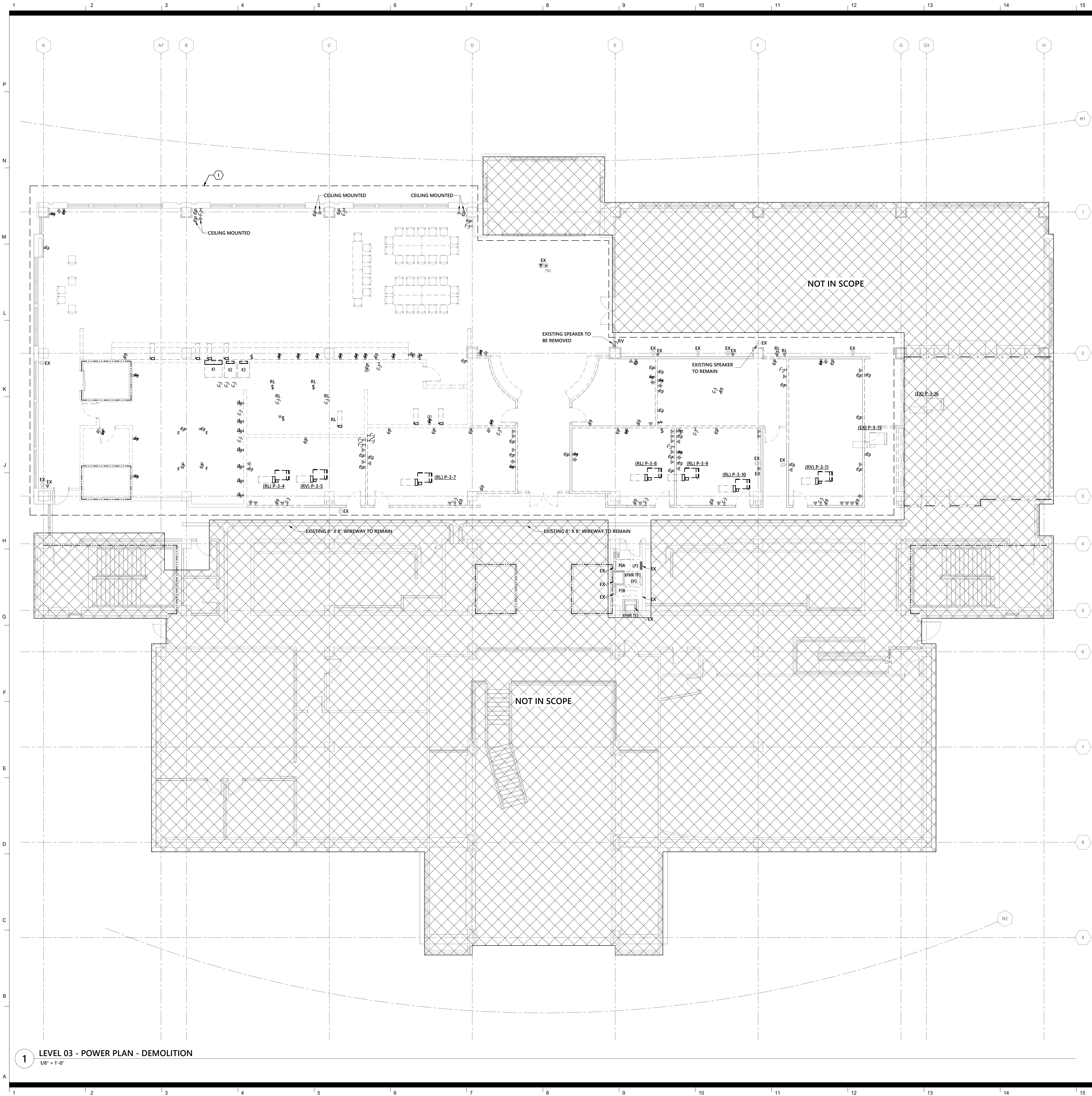
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LEVEL 03 -
LIGHTING
ELEVATIONS

sheet number

E3.04



- GENERAL NOTES - DEMOLITION**
- A. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- B. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUITS TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- D. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- E. COORDINATE WITH NCSU COMTECH TO FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS DIRECTED BY NCSU COMTECH. COORDINATE WITH NCSU COMTECH TO PULL TEMPORARY CABLING AS NEEDED.
- F. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- G. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUITS.
- H. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
- I. COORDINATE THE REMOVAL OF ANY WIRELESS ACCESS POINTS, DATA OUTLETS, AND CABLING WITH NCSU COMTECH PRIOR TO DEMOLITION PHASE.

- KEYNOTE LEGEND**
- 1 ALL DASHED ITEMS WITHIN THIS AREA OF WORK ARE TO BE REMOVED UNLESS OTHERWISE NOTED. ALL SCRAP METAL AND WIRING TO BE SOURCE SEPARATED AND RECYCLED. COORDINATE PHASED RECYCLING PLAN WITH NCSU WASTE REDUCTION & RECYCLING PRIOR TO DEMOLITION PHASE.

RENOVATION LEGEND ABBREVIATIONS	
ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT



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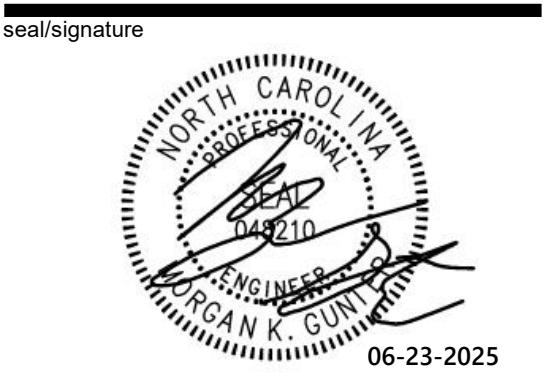
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Football Center -
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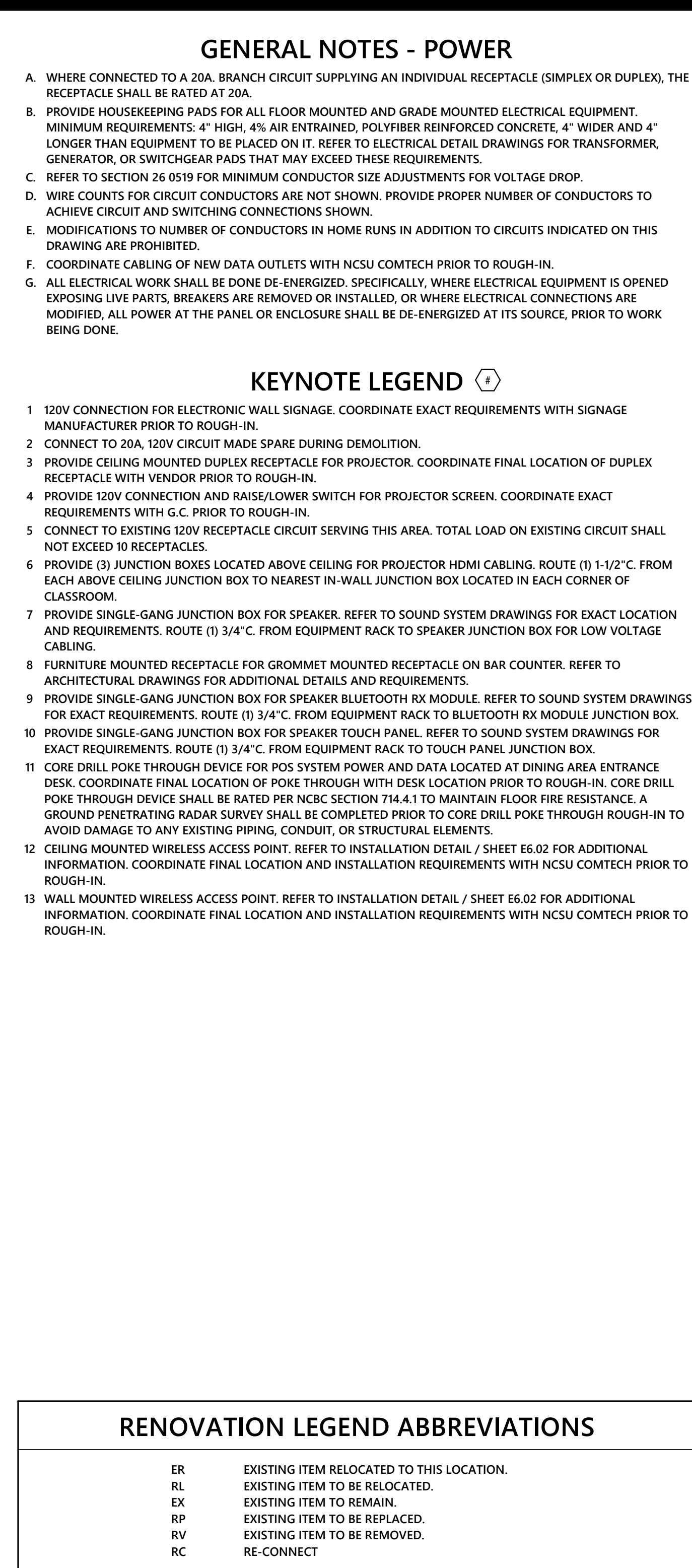
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**LEVEL 03 - POWER
PLAN - DEMOLITION**

sheet number

E3.05

OPTIMAR 24-0096R Sheet No. 10 of 24



OPTIMA# 24-0096R Sheet No. 11 of 2

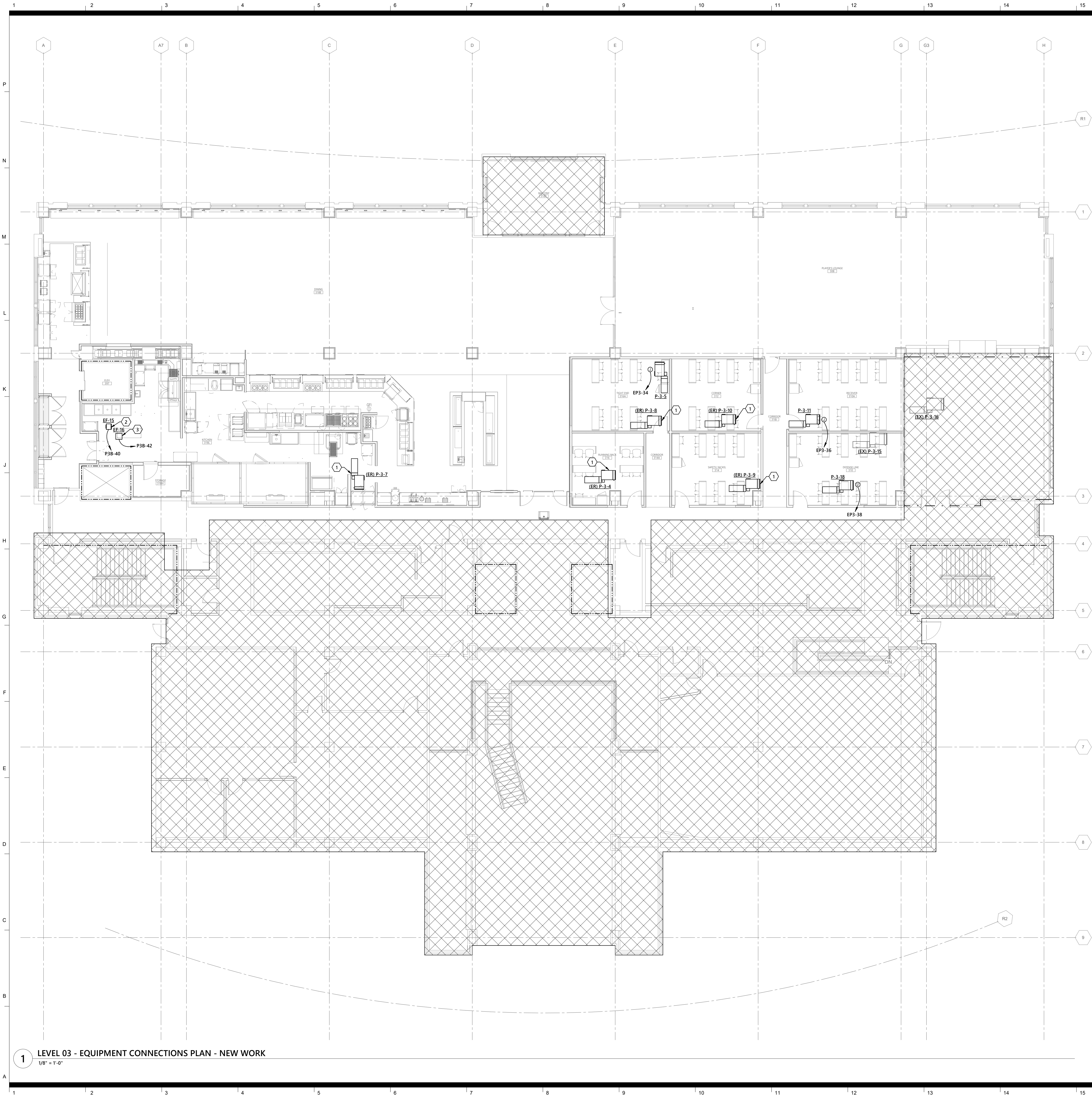
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EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

2 $1/8'' = 1'-0''$

RATED WALL LEGEND

----- EXISTING 2-HR FIRE BARRIER





GENERAL NOTES - POWER

- A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
- C. REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- D. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- E. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- F. COORDINATE CABLING OF NEW DATA OUTLETS WITH NCSU COMTECH PRIOR TO ROUGH-IN.
- G. ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED. SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED, ALL POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.

KEYNOTE LEGEND

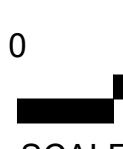
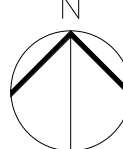
- 1 EXISTING FAN POWERED VAV UNIT TO BE RELOCATED. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO RETAIN EXISTING CIRCUITRY.
- 2 ON/OFF WALL SWITCH CONTROL PROVIDED BY M.C. COORDINATE PRIOR TO ROUGH-IN.
- 3 INTERLOCK EXHAUST FAN WITH DISHWASHER LOCATED IN KITCHEN. PROVIDE WITH RELAY, CONNECT COMPLETE.

RENOVATION LEGEND ABBREVIATIONS

ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

RATED WALL LEGEND

-----	EXISTING 2-HR FIRE BARRIER
----	EXISTING 1-HR FIRE BARRIER



SCALE 1/8" = 1'-0"



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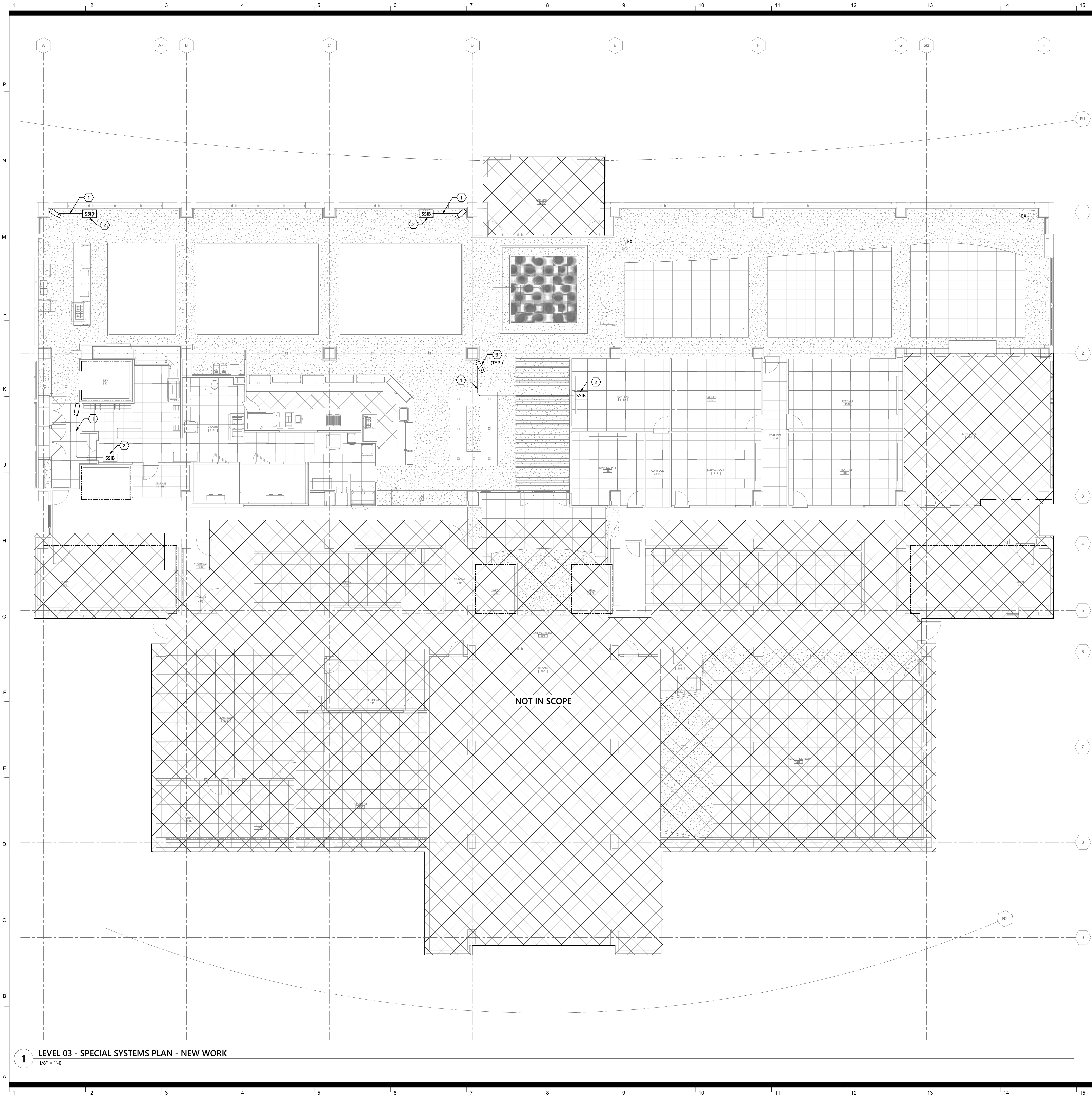
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**LEVEL 03 -
EQUIPMENT
CONNECTIONS
PLAN - NEW WORK**

sheet number

E3.07



GENERAL NOTES - POWER

- A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
- C. REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- D. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- E. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- F. COORDINATE CABLING OF NEW DATA OUTLETS WITH NCSU COMTECH PRIOR TO ROUGH-IN.
- G. ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED. SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED, ALL POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.

KEYNOTE LEGEND

- 1 PROVIDE (1) 3/4" CONDUIT FROM ABOVE CEILING SSIB DROP TO CAMERA DEVICE. SEE DETAIL #7 / SHEET E6.02 FOR MORE DETAILS.
- 2 SSIB DROP LOCATED ABOVE CEILING WITH ACCESS HATCH. SEE DETAIL #8 / SHEET E6.02 FOR MORE DETAILS.
- 3 COORDINATE LOCATION OF ALL NEW CAMERAS AND SSIB DROPS WITH NCSU COMTECH PRIOR TO ROUGH-IN.

RENOVATION LEGEND ABBREVIATIONS

ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

RATED WALL LEGEND	
-----	EXISTING 2-HR FIRE BARRIER
----	EXISTING 1-HR FIRE BARRIER



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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F

seal/signature



rev date description

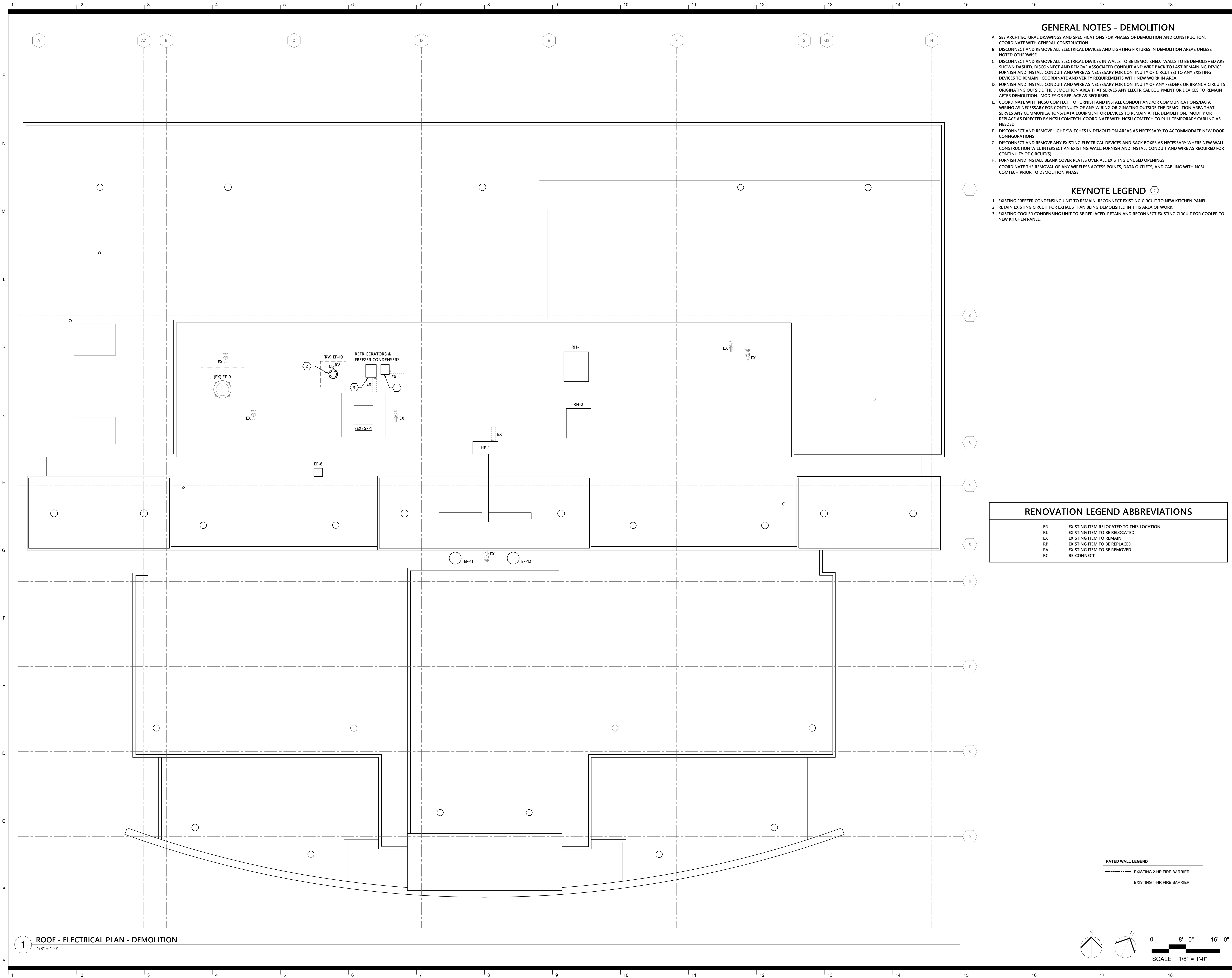
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**LEVEL 03 - SPECIAL
SYSTEMS PLAN -
NEW WORK**

sheet number

E3.08



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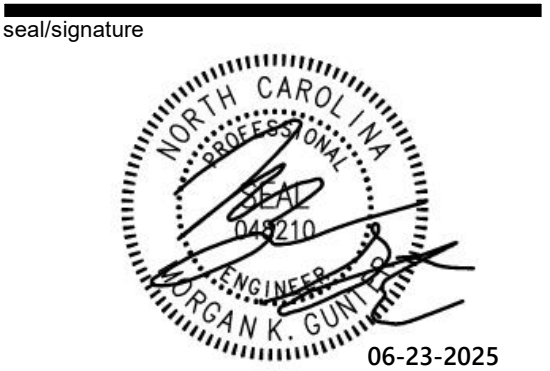
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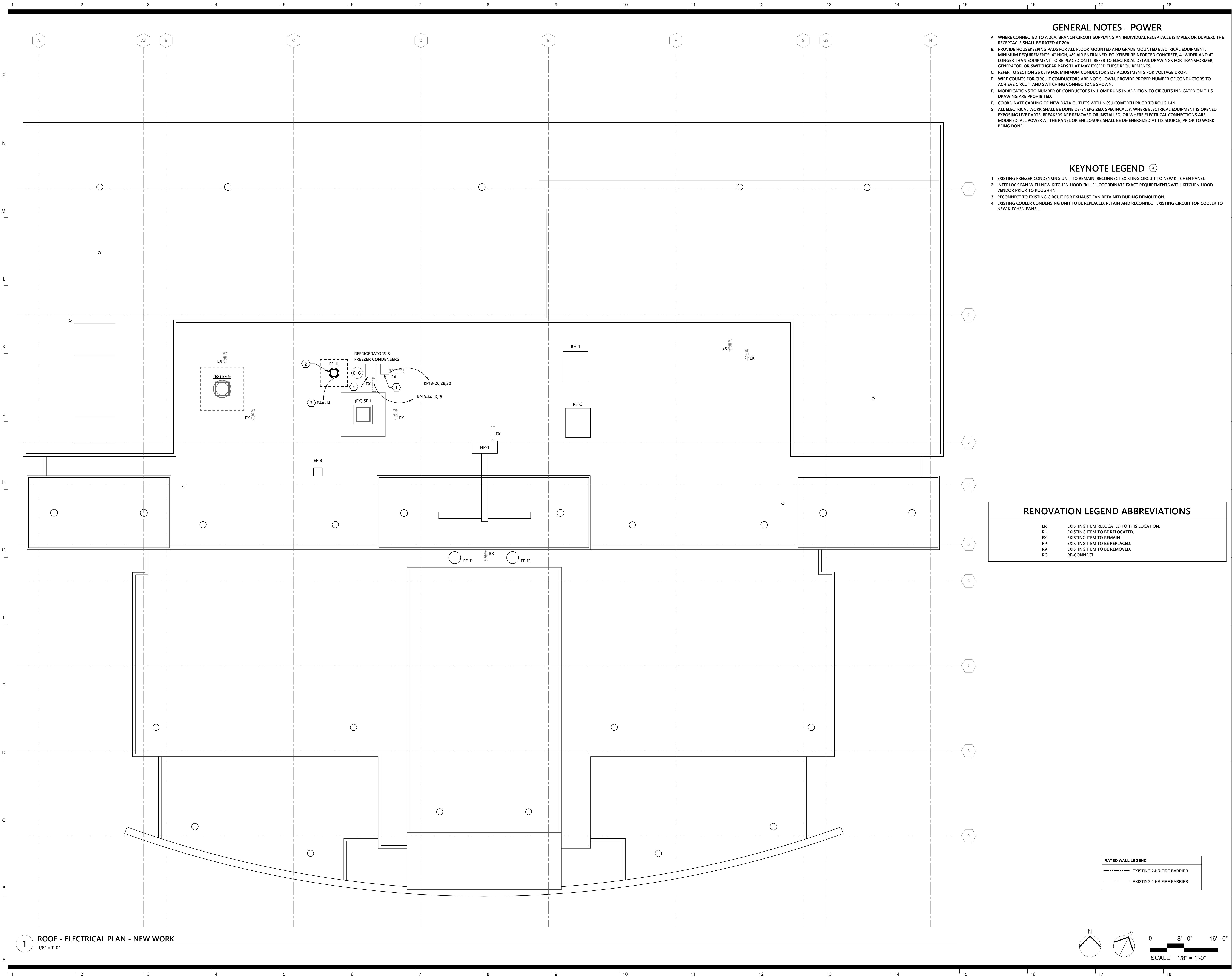
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**ROOF - ELECTRICAL
PLAN - DEMOLITION**

sheet number

E4.01



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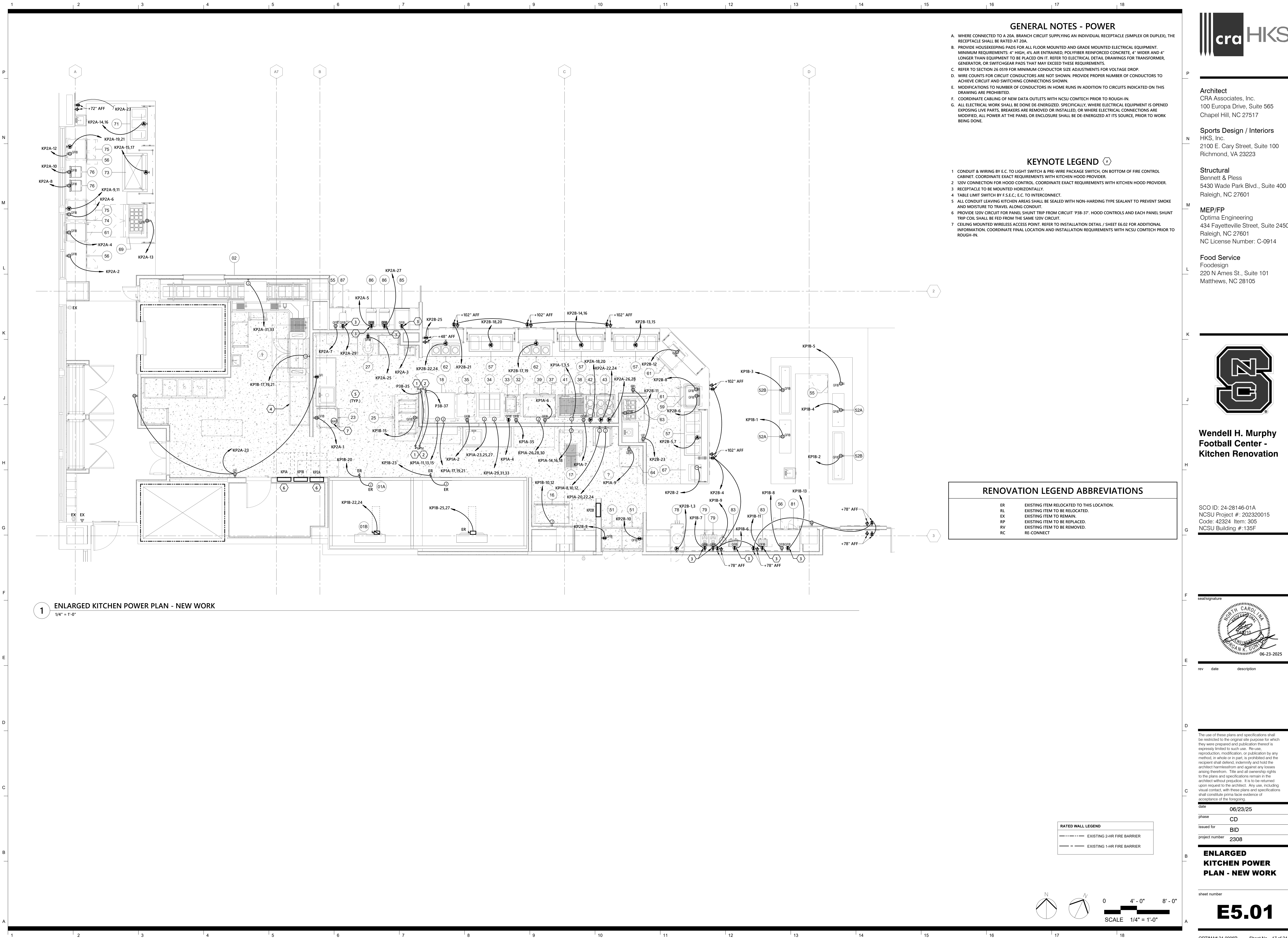
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**ROOF - ELECTRICAL
PLAN - NEW WORK**

sheet number

E4.02



GENERAL NOTES - POWER

- WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
- REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- COORDINATE CABLING OF NEW DATA OUTLETS WITH NCSU COMTECH PRIOR TO ROUGH-IN.
- ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED. SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED, ALL POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.

KEYNOTE LEGEND

- CONDUIT & WIRING BY E.C. TO LIGHT SWITCH & PRE-WIRE PACKAGE SWITCH, ON BOTTOM OF FIRE CONTROL CABINET. COORDINATE EXACT REQUIREMENTS WITH KITCHEN HOOD PROVIDER.
- 120V CONNECTION FOR HOOD CONTROL. COORDINATE EXACT REQUIREMENTS WITH KITCHEN HOOD PROVIDER.
- RECEPTACLE TO BE MOUNTED HORIZONTALLY.
- TABLE LIMIT SWITCH BY F.S.E.C. E.C. TO INTERCONNECT.
- ALL CONDUIT LEAVING KITCHEN AREAS SHALL BE SEALED WITH NON-HARDING TYPE SEALANT TO PREVENT SMOKE AND MOISTURE TO TRAVEL ALONG CONDUIT.
- PROVIDE 120V CIRCUIT FOR PANEL SHUNT TRIP FROM CIRCUIT 'P3B-37'. HOOD CONTROLS AND EACH PANEL SHUNT TRIP COIL SHALL BE FED FROM THE SAME 120V CIRCUIT.
- CEILING MOUNTED WIRELESS ACCESS POINT. REFER TO INSTALLATION DETAIL / SHEET E6.02 FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH NCSU COMTECH PRIOR TO ROUGH-IN.

RENOVATION LEGEND ABBREVIATIONS

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RL	EXISTING ITEM TO BE RELOCATED.
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RATED WALL LEGEND	
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**ENLARGED
KITCHEN POWER
PLAN - NEW WORK**

sheet number

E5.01

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FOODSERVICE EQUIPMENT SCHEDULE

QTY	ITEM	DESCRIPTION	MANUFACTURER	MODEL	ITEM	ELECTRICAL						REMARKS	DISCONNECT SIZE	CONDUIT AND CONDUCTOR SIZE		
						ELECTRIC AL A.F.F.	KW	HP	AMPS	VOLTS	PHASE	NEMA				
1	02	CONVEYOR	BI-LINE	ACCUMULATOR CUSTOM		50"			15.0A	208V	1	DIRECT	L-SHAPED, PRE-RINSE SPRAY, UNDERMOUNT HOSE REEL, LEVER DRAIN, SCRAP BASKET	LOCKABLE CB	3#12,1#12G, 3/4"C.	
1	05	DISHWASHER, CONVEYOR TYPE	HOBART	CL44-ADV		64"	B:12.0		109.6 A	208 V	3	(1)	B-BOOSTER, DRAIN WATER TEMPERING KIT, VENT COWLS, TALL CHAMBER	200A-F100A-3P-4X STAINLESS STEEL	4#1,1#6G, 1-1/2"C.	
1	16	ICE MAKER, CUBE STYLE	EXISTING	RESET		68"			12.4 A	208 V	1	DIRECT	WATER FILTER, BACKFLOW PREVENTION DEVICE, ICE BIN	LOCKABLE CB	3#12,1#12G, 3/4"C.	
1	17	ELECTRIC TILTING SKILLET	EXISTING	RESET		24"			33.3 A	208 V	3	DIRECT	FILL FAUCET	LOCKABLE CB	4#8,1#10G, 1"C.	
1	18	COMBI OVEN, ELECTRIC DBL. STACKED	EXISTING	RESET		24"/50"			124.0 A	208 V	3	(2) DIRECT	F.S.E.C. TO VERIFY EXISTING UTILITIES	(2) LOCKABLE CB	(2) 4#3,1#8G, 1-1/4"C.	
1	19A	EXHAUST HOOD	CAPTIVEAIRE	ND2		ABV.			20.0 A	120 V	1	(2) DIRECT	* SEE VENTILATION CONNECTION SCHEDULE	(2) MOTOR RATED SWITCH	(2) 2#12,1#12G, 3/4"C.	
1	23	HEATED HOLDING CABINET	EXISTING	RESET		50"			19.1 A	120 V	1	5-20P	F.S.E.C. TO VERIFY EXISTING UTILITIES	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	25	ROLL-IN REFRIGERATOR	CONTINENTAL REFRIGERATOR	DL48GSA-E		50"		0.5	10.3 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	27	20 QT MIXER	EXISTING	RESET		50"		1/2	8.0 A	120 V	1	5-15P	F.S.E.C. TO VERIFY EXISTING UTILITIES	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	32	WORKTOP FREEZER	CONTINENTAL REFRIGERATOR	SWF27NBS		24"		1/4	4.0 A	120 V	1	5-15P	CASTERS, DOOR HINGED ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	33	FRY HOLDING STATIONS	HATCO CORPORATION	GRFHS-PT16		50"			9.1 A	120 V	1	5-15P	TOGGLE SWITCH	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	34	ELECTRIC FRYER, BATTERY	EXISTING	RESET		(2) 24"			47.0 A	208 V	3	(2) DIRECT	F.S.E.C. TO VERIFY EXISTING UTILITIES	(2) LOCKABLE CB	(2) 4#4,1#10G, 1-1/4"C.	
1	35	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	1RENSAHD		24"		0.25	5.2 A	120 V	1	5-15P	CASTERS, DOOR HINGE ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	36	RAPID COOK OVEN	TURBOCHEF	BULLET		50"						1	6-30P	STACKING KIT, EQUIPMENT STAND	(2) LOCKABLE CB	(2) 4#3,1#8G, 1-1/4"C.
1	37	EQUIPMENT STAND, FREEZER BASE	CONTINENTAL REFRIGERATOR	DL48GF		24"		1/4	5.7 A	120 V	1	5-15P	CASTERS, CONDENSING UNIT ON LEFT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	38	EQUIPMENT STAND, REFRIGERATED BASE	CONTINENTAL REFRIGERATOR	D84GN		24"		1/4	5.9 A	120 V	1	5-15P	CASTERS, CONDENSING UNIT ON LEFT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	39	GRIDDLE, ELECTRIC, COUNTERTOP	EXISTING	RESET		50"			67.4 A	208 V	3	DIRECT	F.S.E.C. TO VERIFY EXISTING UTILITIES			
1	41	COUNTERTOP CHAR BROILER	WELLS BLOOMFIELD	B-50		50"			30.0 A	208 V	3	DIRECT		LOCKABLE CB LOCKABLE CB	4#2,1#8G, 1-1/4"C. 4#8,1#10G, 1"C.	
1	42	INDUCTION RANGE COUNTERTOP	VOLLRATH	912HDC		50"			24.0 A	208 V	1	6-30P		RECEPTACLE	3#8,1#10G, 1"C.	
1	43	INDUCTION RANGE COUNTERTOP	VOLLRATH	924HDC		(2) 50"			24.0 A	208 V	1	(2) 6-30P		(2) RECEPTACLE	(2) 3#8,1#10G, 1"C.	
1	44	EXHAUST HOOD	EXISTING	TO REMAIN		(2) ABV.			20.0 A	120 V	1	(2) DIRECT	F.S.E.C. TO VERIFY EXISTING UTILITIES	(2) MOTOR RATED SWITCH	(2) 2#12,1#12G, 3/4"C.	
2	51	PASS-THRU REFRIGERATOR	EVEREST	ESPT-1G-1S		90"			4.0 A	120 V	1	5-15P	DOOR HINGE ON RIGHT, CASTERS	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	52A	DROP-IN, COLD FOOD WELL UNIT	DUKE	ADI-2MDSL-N7		CTR.		1/4	4.3 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	52B	DROP-IN, COLD FOOD WELL UNIT	DUKE	ADI-3MDSL-N7		CTR.		1/4	4.3 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	55	UNDERCOUNTER REFRIGERATOR	CONTINENTAL REFRIGERATOR	SW27N-U		CTR./24"		1/5	2.5 A	120 V	1	5-15P	LOW PROFILE CASTERS, DOOR HINGE ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
3	56	UNDERCOUNTER REFRIGERATOR	CONTINENTAL REFRIGERATOR	SW36N-U		24"		1/5	2.5 A	120 V	1	5-15P	LOW PROFILE CASTERS, LEFT DOOR HINGED ON LEFT & RIGHT DOOR HINGE ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
4	57	DROP-IN, HOT/COLD/FREEZE	DUKE	HCF-4		CTR.			21.0 A	120 V	1	L14-30P		RECEPTACLE	3#10,1#10G, 3/4"C.	
1	59	CARVING STATION/SHELF	HATCO	DCSB-3624-2		CTR.			18.4 A	208 V	1	L14-30P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
3	61	COOK & HOLD OVEN	ALTO-SHAAM	750-TH		CTR./24"			14.0 A	120 V	1	5-15P	LOW PROFILE CASTERS, S/S EXTERIOR, DOOR HINGE ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	62	INDUCTION RANGE, BUILT-IN/DROP-IN	SPRING USA	ICB348-26		CTR.			35.0 A	208 V	1	14-50P		RECEPTACLE	3#6,1#10G, 3/4"C.	
1	63	SANDWICH UNIT, REFRIGERATED	CONTINENTAL REFRIGERATOR	SW32N8-FB		24"		1/5	2.5 A	115 V	1	5-15P	DOOR HINGE ON RIGHT, CASTERS	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	64	REACH-IN FREEZER	CONTINENTAL REFRIGERATOR	1FESNSA		24"		1/4	7.6 A	120 V	1	5-15P	CASTERS, DOOR HINGE ON RIGHT	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	67	SOUP WELL	DUKE	ADI-1E-SW		CTR.			6.3 A	120 V	1	DIRECT				
1	69	SANDWICH / SALAD PREP REFRIGERIGERATOR	CONTINENTAL REFRIGERATOR	D48N18M		CTR.		1/4	4.5 A	120 V	1	5-15P	LEFT DOOR HINGED ON LEFT & RIGHT DOOR HINGED ON RIGHT, S/S FLAT COVER	LOCKABLE CB DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C. 2#12,1#12G, 3/4"C.	
1	71	DROP-IN, HOT/COLD/FREEZE	DUKE	HCF-3		CTR.			16.0 A	120 V	1	14-20P				
1	73	GRIDDLE, ELECTRIC	EVO	10-0148-EVT		CTR.			18.4 A	208 V	1	L14-30P	CASTERS	RECEPTACLE	3#10,1#10G, 3/4"C.	
1	74	REACH-IN UNDERCOUNTER FREEZER	CONTINENTAL FREEZER	SWF27N-U		24"		1/4	4.0 A	120 V	1	5-15P	DOOR HINGED ON RIGHT	RECEPTACLE DUPLEX RECEPTACLE	3#8,1#10G, 1"C. 2#12,1#12G, 3/4"C.	
2	75	MICROWAVE/IMPINGEMENT OVEN	TURBO CHEF	i5-9500-1		50"			48.0 A	208 V	1	6-50P				
2	76	PANINI GRILL	WARING COMMERCIAL	WDG250		50"			15.0 A	120 V	1	6-150P		RECEPTACLE DUPLEX RECEPTACLE	3#4,1#10G, 1-1/4"C. 2#12,1#12G, 3/4"C.	
1	78	SOFT SERVE MACHINE	STOELTING	O431-3812F		50"		1.5	15.0 A	208 V	1	L6-30P		RECEPTACLE	3#10,1#10G, 3/4"C.	
2	79	WAFFLE MAKER/BAKER	HATCO	FWM-1B		50"			11.3 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	81	MILK DISPENSER	SILVER KING	EXISTING		50"			1.4 A	120 V	1	5-15P	F.S.E.C. TO VERIFY EXISTING UTILITIES	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	83	POP-UP TOASTER	HATCO	TPT-120		50"			12.0 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	85	SODA ICE & BEVERAGE DISPENSER	CORNELIUS	EXISTING		50"			3.0 A	120 V	1	CORD & PLUG	F.S.E.C. TO VERIFY EXISTING UTILITIES	DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
2	86	JUICE DISPENSER	BUNN	EXISTING		50"			6.0 A	120 V	1	5-20P	F.S.E.C. TO VERIFY EXISTING UTILITIES			
1	87	COFFEE BREWER	BUNN	EXISTING		50"			14.0 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	
1	88	COFFEE GRINDER	BUNN	22100.0000		50"			11.0 A	120 V	1	5-15P		DUPLEX RECEPTACLE	2#12,1#12G, 3/4"C.	

KITCHEN SCHEDULE NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AS REQUIRED ALL DISCONNECT SWITCHES, RECEPTACLES, ETC. TO MECHANICAL, PLUMBING, AND KITCHEN EQUIPMENT COMPLETELY. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE ALL
CORDS, PLUGS, CABLES, ETC., ON REQUIRING SUCH ITEMS.

2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL MECHANICAL, PLUMBING AND KITCHEN EQUIPMENT AS REQUIRED.

3. ALL DISCONNECT SWITCHES, FUSE SIZES, PLUG CONFIGURATIONS, BREAKER SIZES, WIRE SIZES, ETC., SHALL BE COORDINATED WITH SHAP DRAWINGS PRIOR TO INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF
COORDINATION WILL BE REMOVED.

4. ELECTRICAL CONTRACTOR SHALL PROVIDE A GROUND WIRE AND A NEUTRAL WITH ALL CIRCUITS, WHETHER SO DESIGNATED OR NOT.

5. ALL 15 AND 20 AMP RECEPTACLES IN FOOD PREP AREA SHALL BE GFI, UNLESS NOTES TO BE PROVIDED WITH A GFI BREAKER.

REFRIGERATION CONNECTION SCHEDULE

CONN.	EQUIPMENT	LOAD	V/PH	REMARKS	DISCONNECT SIZE	CONDUCTOR AND CONDUIT SIZE
01A	LIGHTS, COOLER	200 W	120/1	1 EXTRA LIGHT	SINGLE POLE SWITCH	2#12,1#12G, 3/4"C.
01B	EVAP. COIL, COOLER	1.0 A	208/1	---	30A-2P-3R	3#12,1#12G, 3/4"C.
01C	COND. UNIT, COOLER	9.5 MCA	208/3	---	30A/FPN-3P-3R	4#12,1#12G, 3/4"C.
89A	LIGHTS & DOOR HEAT	500 W	120/1	1 EXTRA LIGHT	SINGLE POLE SWITCH	2#12,1#12G, 3/4"C.
89B	HEAT TAPE, FREEZER	15.0 A	120/1	DRAINLINE HEAT TAPE	MOTOR RATED SWITCH	2#12,1#12G, 3/4"C.
89C	EVAP. COIL, FREEZER	8.2 A	208/1	FEED DEFROST THRU TIMER @ COND. UNIT	30A-2P-3R	3#12,1#12G, 3/4"C.
89D	COND. UNIT, FREEZER	21.6 MCA	208/1		30A/FPN-2P-3R	3#10,1#10G, 3/4"C.

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Sheet No. 18 of 24



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Richmond, VA 23223

Structural
Bennett & Pless
5430 Wade Park Blvd., Suite 400
Raleigh, NC 27601

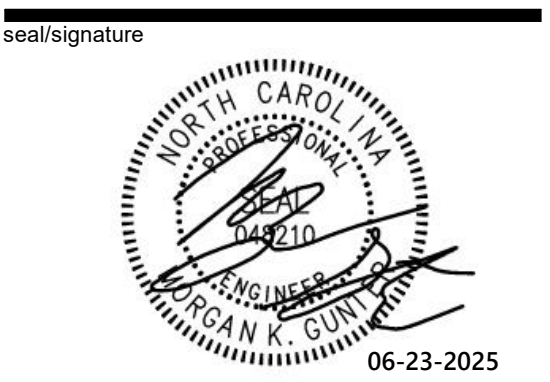
MEP/FP
Optima Engineering
434 Fayetteville Street, Suite 2450
Raleigh, NC 27601
NC License Number: C-0914

Food Service
Foodesign
220 N Ames St., Suite 101
Matthews, NC 28105



**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F



rev date description

The use of these plans and specifications shall be restricted to the original site purpose for which they were prepared and publication thereof is expressly limited to such use. Re-use, reproduction, modification, or publication by any method, in whole or in part, is prohibited and the recipient shall defend, indemnify and hold the architect harmless from and against any losses arising therefrom. Title and all ownership rights to the plans and specifications remain in the architect without prejudice. It is to be returned upon request to the architect. Any use, including visual contact, with these plans and specifications shall constitute prima facie evidence of acceptance of the foregoing.

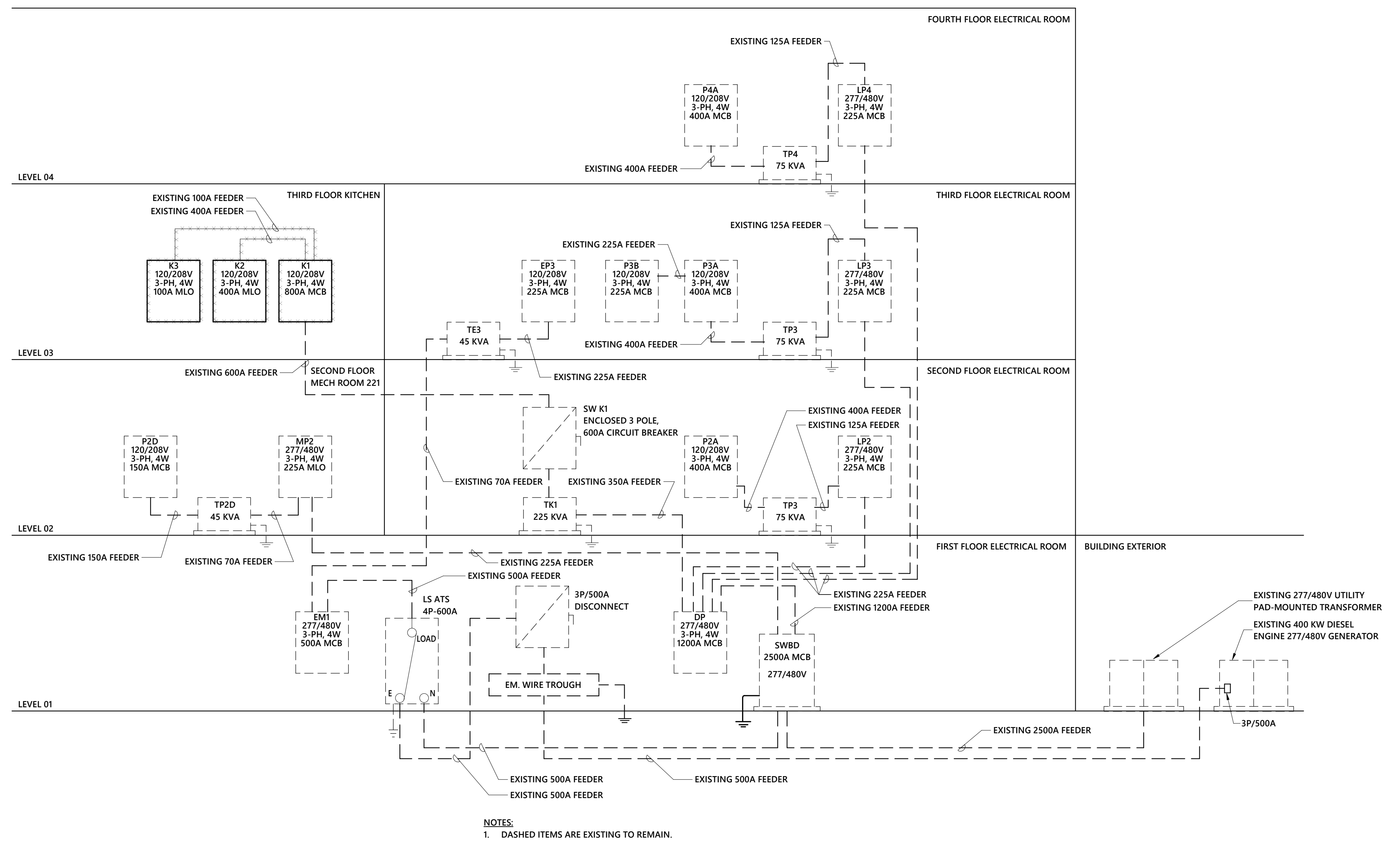
date 06/23/25
phase CD
issued for BID
project number 2308

**ELECTRICAL
DIAGRAMS**

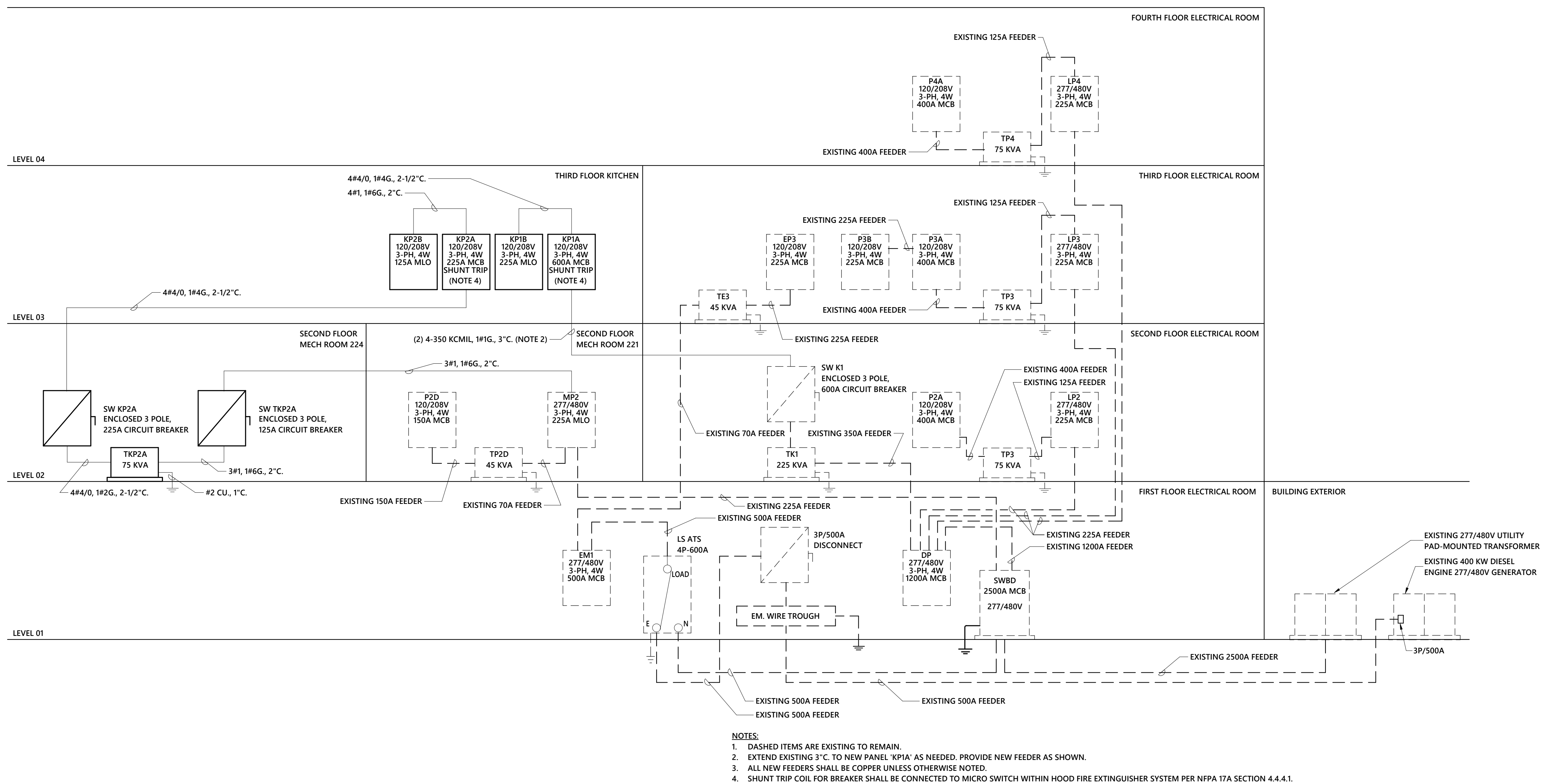
sheet number

E7.01

'SWBD' LOAD SUMMARY	
PEAK DEMAND:	560.70 KVA
125% PEAK DEMAND:	700.87 KVA
DEMAND LOAD REMOVED PER AS-BUILTS:	
LIGHTS:	25.58 KVA
RECEPTACLES:	11.48 KVA
MISCELLANEOUS:	10.50 KVA
KITCHEN:	230.60 KVA
SUBTOTAL:	278.16 KVA
CONNECTED LOADS ADDED:	
LIGHTS:	6.78 KVA
RECEPTACLES:	17.52 KVA
MISCELLANEOUS:	38.56 KVA
KITCHEN:	304.03 KVA
MOTORS:	3.24 KVA
DEMAND LOADS ADDED:	8.48 KVA
LIGHTS @ 125%:	10 KVA
RECEPTACLES:	3.76 KVA
1ST 10KVA @ 100%:	38.56 KVA
REMAINING @ 50%:	197.62 KVA
MISC. @ 100%:	3.24 KVA
MOTORS @ 100%:	3.24 KVA
SUBTOTAL:	261.66 KVA
EXISTING MAIN DISTRIBUTION PANEL 'SWBD' IS A 277/480V, 3-PHASE, 2500A MAIN CIRCUIT BREAKER PANEL. EXISTING PEAK DEMAND BASED ON PREVIOUS RECORDS IS 560.699 KVA. LOAD ON PANEL AFTER DEMOLITION AND CONSTRUCTION WAS REDUCED OVERALL ON PANEL 'SWBD'.	
NEW DEMAND 'SWBD': 544.98 KVA ; 655A @ 277/480V 125% OF DEMAND: 819A ON EXISTING 2500A MCB	



1 PARTIAL POWER RISER DIAGRAM - DEMOLITION
1/8" = 1'-0"



2 PARTIAL POWER RISER DIAGRAM - NEW WORK
1/8" = 1'-0"

- NOTES:
1. DASHED ITEMS ARE EXISTING TO REMAIN.
 2. EXTEND EXISTING 3" C. TO NEW PANEL 'KP1A' AS NEEDED. PROVIDE NEW FEEDER AS SHOWN.
 3. ALL NEW FEEDERS SHALL BE COPPER UNLESS OTHERWISE NOTED.
 4. SHUNT TRIP COIL FOR BREAKER SHALL BE CONNECTED TO MICRO SWITCH WITH HOOD FIRE EXTINGUISHER SYSTEM PER NFPA 17A SECTION 4.4.4.1.

VOLTAGE: 480Y/277 3Ø

EXISTING PANEL: MP2

FED FROM: SWBD

MOUNTING: SURFACE

MAIN TYPE: MLO

MFR: GE

ENCLOSURE: NEMA1

PHASE: 3

TYPE: A SERIES

MAIN: 225 A

WIRE: 4

AIC: 42 KAIC

LC Abbr	Load Served	Wire	Trip	Ckt No	Pole	A		B		C		Pole	Ckt No	Trip	Wire	Load Served		LC Abbr	
						1	2	1	2	1	2								
MS	HRU-(3/A)	E	40 A	3	3	8.12	9.44	8.12	9.46	8.12	9.82	3	4	70 A	E	PANEL 'P2D' VIA XFMR 'TP2D'	F		
						5						1	8	20 A	E	2ND FLOOR LIGHTS	L		
						7						1	8	20 A	E	2ND FLOOR LIGHTS	G		
MS	HRU-(3/B)	E	25 A	9	3			5.42	0.21			1	10	20 A	E	1ST FLOOR LIGHTS	V		
						11				5.42	0.50	1	12	20 A	E	EF-1	L		
						13	9.23	0.00				1	14	20 A	-	SPARE	Sp.		
MS	HRU-4	E	40 A	15	3			9.23	0.00			1	16	20 A	-	SPARE	Sp.		
						17				9.23	0.00	1	18	20 A	-	SPARE	Sp.		
Sp.. SPARE		-	20 A	19	1	0.00	0.00			9.23	0.00	1	20	20 A	-	SPARE	Sp.		
Sp.. SPARE		-	20 A	21	1			0.00	0.00			1	22	20 A	-	SPARE	Sp.		
Sp.. SPARE		-	20 A	23	1					0.00	0.00	1	24	20 A	-	SPARE	Sp.		
Sp.. SPARE		-	20 A	25	1	0.00	34.17						26						
Sp.. SPARE		-	20 A	27	1			0.00	37.18				3	28	125 A	NOTE 8	PANEL 'KP2A' VIA XFMR 'TKP2A'	F	
Sp.. SPARE		-	20 A	29	1					0.00	32.09		30						
LOAD																			
Connected Load						Demand Factor		Estimated Demand		NOTES:									
L	LIGHTS			1.59 kVA		125.00%		1.99 kVA		1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.									
LE	HEATING - EXTERIOR			0.00 kVA		0.00%		0.00 kVA		2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.									
H	HEATING			0.00 kVA		0.00%		0.00 kVA		3. ALL BUSSING INCL END AND NEUTRAL SHALL BE COPPER									
C	COOLING			0.00 kVA		0.00%		0.00 kVA		4. ALL INCOMING PANEL & BRKR LGTS SHALL MATCH FEEDERS.									
V	VENTILATION			0.50 kVA		100.00%		0.50 kVA		5. PROVIDE NEW TYPEWRITTEN PANELBOARD SCHEDULE.									
M	MOTORS			0.60 kVA				0.60 kVA		6. "E" DENOTES EXISTING.									
K	RECEPTACLES			94.77 kVA		65.00%		61.60 kVA		7. BOLD INDICATES NEW WORK. PROVIDE ACCORDINGLY.									
R	RECEPTACLES			17.46 kVA		76.64%		13.73 kVA		8. REFER TO RISER DIAGRAM / SHEET E7.01 FOR WIRE SIZE.									
WH	WATER HEATER			0.00 kVA		0.00%		0.00 kVA											
MS	MISC.			86.83 kVA		100.00%		86.83 kVA											
S	SPARE			0.00 kVA		0.00%		0.00 kVA											
E	ELEVATOR			0.00 kVA		0.00%		0.00 kVA											
LD	LAUNDRY			0.00 kVA		0.00%		0.00 kVA											
EV	EV CHARGING			0.00 kVA		0.00%		0.00 kVA											
TOTAL KVA (CONNECTED):		201.75 kVA		TOTAL PER PHASE: (CONNECTED)				242.7 A		252.3 A		235.3 A		LOAD CLASSIFICATION ABBREVIATIONS (CONT.)					
TOTAL KVA (DEMAND):		165.25 kVA												F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.					
TOTAL AMP (CONNECTED):		243 A																	
TOTAL AMP (DEMAND):		199 A																	

VOLTAGE: 208Y/120 3Ø

MAIN PANEL: EP3

FED FROM: XPMR T3

MOUNTING: SURFACE

MAIN TYPE: MCB

MFR: GE

ENCLOSURE: NEMA1

PHASE: 3

TYPE: A SERIES

MAIN: Z25 A

WIRE: 4

AIC: 22 KAIC

LC Abbr	Load Served	Wire	Trip	Qkt No	Pole	A		B		C		Pole	Qkt No	Trip	Wire	Load Served		LC Abbr
F PANEL 'EP4'	E 20 A	3	1	3	6.50	0.20		5.80	0.60			1	2	20 A	E	P-3-10		M
				5						4.40	0.60	1	4	20 A	E	P-3-11		M
M P-3-1	E 20 A	7	1	0.60	0.70							1	8	20 A	E	P-3-12		M
M P-3-2	E 20 A	9	1			0.70	0.70					1	10	20 A	E	P-3-14		M
M P-3-3	E 25 A	11	1							1.70	1.70	1	12	25 A	E	P-3-15		M
M P-3-4	E 20 A	13	1	0.20	1.20							1	14	20 A	E	P-3-16		M
M P-3-5	E 20 A	15	1			0.20	0.60					1	16	20 A	E	MECHANICAL CONTROLS		MS
M P-3-6	E 20 A	17	1							0.70	1.00	1	18	20 A	E	P-3-17		M
M P-3-7	E 20 A	19	1	0.70	0.50							1	20	20 A	E	EXISTING LOAD		M
M P-3-8	E 20 A	21	1			0.70	1.00					1	22	20 A	E	S1-3-1, S1-3-2		V
M P-3-9	E 20 A	23	1							0.20	0.50	1	24	20 A	E	EXISTING LOAD		MS
MS EXISTING LOAD	E 20 A	25	1	0.50	0.50							1	26	20 A	E	EXISTING LOAD		MS
MS EXISTING LOAD	E 20 A	27	1			0.50	0.50					1	28	20 A	E	EXISTING LOAD		MS
MS EXISTING LOAD	E 20 A	29	1							0.50	0.50	1	30	20 A	E	EXISTING LOAD		MS
MS EXISTING LOAD	E 20 A	31	1	0.50	1.00							1	32	20 A	E	FIRE ALARM POWER SUPPLY		MS
MS EXISTING LOAD	E 20 A	33	1			0.50	0.53					1	34	15 A	-	P-3-5 (NOTE 9)		M
				35						0.50	0.53	1	36	15 A	-	P-3-4 (NOTE 9)		M
MS EXISTING LOAD	E 100 A	37	3	0.50	0.53							1	38	15 A	-	P-3-18 (NOTE 9)		M
				39		0.50	--					1	40	--	--	SPACE ONLY		M
				41	1					--	--	1	42	--	--	SPACE ONLY		M
SPACE ONLY	-	--	41	1						--	--	1	42	--	--	SPACE ONLY		M

LOAD

L LIGHTS

0.00 kVA

0.00%

0.00 kVA

L LIGHTING - EXTERIOR

0.00 kVA

0.00%

0.00 kVA

H HEATING

0.00 kVA

0.00%

0.00 kVA

C COOLING

0.00 kVA

0.00%

0.00 kVA

V VENTILATION

1.00 kVA

100.00%

1.00 kVA

M MOTORS

13.99 kVA

100.00%

13.99 kVA

K KITCHEN

0.00 kVA

0.00%

0.00 kVA

R RECEPTACLES

0.00 kVA

0.00%

0.00 kVA

W WATER HEATER

0.00 kVA

0.00%

0.00 kVA

MS MSC

8.10 kVA

100.00%

8.10 kVA

S Spare

0.00 kVA

0.00%

0.00 kVA

E ELEVATOR

0.00 kVA

0.00%

0.00 kVA

LD LAUNDRY

0.00 kVA

0.00%

0.00 kVA

EV EV CHARGING

0.00 kVA

0.00%

0.00 kVA

TOTAL KVA (CONNECTED): 39.79 kVA

TOTAL PER PHASE (CONNECTED)

TOTAL KVA (DEMAND): 39.79 kVA

117.8 A

106.9 A

106.9 A

TOTAL AMP (CONNECTED): 110 A

TOTAL AMP (DEMAND): 110 A

LOAD CLASSIFICATION/ABBREVIATIONS (CONT.)

F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

[illegible]

VOLTAGE: 480Y/277 3Ø

MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 225 A

EXISTING PANEL: LP3

MAIN TYPE: MLO
PHASE: 3
WIRE: 4

FED FROM:

DP

MFR: GE
TYPE: A SERIES
AIC: 22 KAIC

LC Addr	Load Served	Wire	Tripp	Qty No	Pole	A		B		C		Pole	Qty No	Tripp	Wire	Load Served		LC Addr
F	PANEL 'P3A' VIA XFMR 'TP3'	E	125 A	3	3	26.18	1.90	24.38	2.60	21.30	2.90	1	2	20 A	E	ROOM 338 LIGHTS	L	
				5								1	4	20 A	E	CLASSROOM 334 LIGHTS	L	
												1	6	20 A	E	COMPUTER 332 LIGHTS	L	
	L ROOF FACADE LIGHTS	E	20 A	7	1	1.20	2.93					1	8	20 A	12	DINING 381 LIGHTS	L	
MS	EXISTING LOAD	E	20 A	9	1			0.50	1.89			1	10	20 A	12	DINING 318 LIGHTS	L	
MS	EXISTING LOAD	E	20 A	11	1					0.50	1.70	1	12	20 A	E	BREAKOUT 318 LIGHTS	L	
L	CORRIDOR 315 LIGHTS	E	20 A	13	1	1.80	2.60					1	14	20 A	E	DINING 318 LIGHTS	L	
L	CORRIDOR 321 LIGHTS	E	20 A	15	1			2.40	3.00			1	16	20 A	E	LOUNGE 308 LIGHTS	L	
L	CORRIDOR 328 LIGHTS	E	20 A	17	1					3.10	2.50	1	18	20 A	E	LOUNGE 308 LIGHTS	L	
L	POS. CLASSROOMS LIGHTS	12	20 A	19	1	0.91	1.10						20					
L	CLASSROOM 318 LIGHTS	E	20 A	21	1			1.40	1.10				22	100 A	E	DIM CAB DC2C	MS	
L	CLASSROOM 326 LIGHTS	E	20 A	23	1					1.50	1.10		24					
L	KITCHEN 318 LIGHTS	12	20 A	25	1	0.59	0.50					1	26	20 A	E	EXISTING LOAD	MS	
MS	EXISTING LOAD	E	20 A	27	1			0.50	2.40			1	28	20 A	E	ROOM 201 LIGHTS	L	
MS	EXISTING LOAD	E	20 A	29	1					0.50	0.50	1	30	20 A	E	EXISTING LOAD	MS	
MS	EXISTING LOAD	E	20 A	31	1	0.50	0.24					1	32	20 A	12	EXISTING 318A / 318B LIGHTS (NOTE B)	MS	
MS	EXISTING LOAD	E	20 A	33	1			0.50	--			1	34	--	--	SPACE ONLY		
MS	EXISTING LOAD	E	20 A	35	1					0.50	--	1	36	--	--	SPACE ONLY		
	SPACE ONLY	--	--	37	1	--	--					1	38	--	--	SPACE ONLY		
	SPACE ONLY	--	--	39	1			--	--			1	40	--	--	SPACE ONLY		
	SPACE ONLY	--	--	41	1					--	--	1	42	--	--	SPACE ONLY		

LOAD

	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	41.86 kVA	725.00%	52.32 kVA	1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.
LE LIGHTING - EXTERIOR	0.00 kVA	0.00%	0.00 kVA	2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
L HEAT	0.00 kVA	0.00%	0.00 kVA	3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
C COOLING	0.00 kVA	0.00%	0.00 kVA	4. ALL INCOMING PANEL A & B BUSSES SHALL MATCH FEEDERS.
V VENTILATION	0.00 kVA	0.00%	0.00 kVA	5. PROVIDE NEW TYPEWRITING PANELBOARD SCHEDULE.
M MOTORS	1.32 kVA	100.00%	1.32 kVA	6. "E" DENOTES EXISTING.
K KITCHEN	0.00 kVA	0.00%	0.00 kVA	7. BOLD INDICATES NEW WORK. PROVIDE ACCORDINGLY.
R RECEPTACLES	40.94 kVA	62.21%	25.47 kVA	8. CIRCUIT IS INCLUDED IN ALTERNATE #2 ONLY. CIRCUIT SHALL NOT BE INCLUDED IN BASE BID.
W WATER HEATER	0.00 kVA	0.00%	0.00 kVA	
MS MISC.	33.10 kVA	100.00%	33.10 kVA	
S Spare	0.00 kVA	0.00%	0.00 kVA	
E ELEVATOR	0.00 kVA	0.00%	0.00 kVA	
LD LAUNDRY	0.00 kVA	0.00%	0.00 kVA	
EV EV CHARGING	0.00 kVA	0.00%	0.00 kVA	

TOTAL KVA (CONNECTED): 117.22 kVA

TOTAL PER PHASE (CONNECTED)

TOTAL KVA (DEMAND): 112.21 kVA

TOTAL AMP. (DEMAND): 141 A

TOTAL AMP. (CONNECTED): 135 A

LOAD CLASSIFICATION ABBREVIATIONS (CONT.)

F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

VOLTAGE: 208Y/120 3Ø

EXISTING PANEL: P2D

FEED FROM: XFMR TP2D

MOUNTING: SURFACE

ENCLOSURE: NEMA1

MAIN: 150 A

MAIN TYPE: MCB

PHASE: 3

WIRE: 4

MFR: GE

TYPE: A SERIES

AIC: 22 KAIC

LC Abb	Load Served	Wire	Tri	Olt No	Pole	A		B		C		Pole	Olt No	Tri	Wire	Load Served	LC Abb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
MS	FREEZER LTS (NOTE 8)	12	20	A	1	1	0.50	0.57					2	10	2	15	A	FCU-3.4	MS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
R	EXTERIOR CONC. NOTE (8)	12	20	A	3	1			0.18	0.57			2	4					MS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
MS	FREEZER HEAT PATE (NOTE 8)	12	20	A	5	1					1.80	0.25	2	8		15	A	FCU-5.16	MS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
M	2ND FLOOR VAV UNITS	E	20	A	7	1	0.50	0.25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
M	1ST FLOOR VAV UNITS	E	20	A	9	1			0.10	0.43																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
MS	ROOM 203G CONSOLE	E	20	A	11	1					0.50	0.43	2	10		15	A	FCU-8.9,10	MS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
MS	ROOM 203G CONSOLE	E	20	A	13	1	0.50	1.42																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
R	ROOM 203G REC.	E	20	A	15	1			0.54	1.42																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
R	ROOM 203G VIDEO WALL REC.	E	20	A	17	1					0.36	0.08	2	18	20	A	E	BS-3A,3B,4A,4B	MS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
R	ROOM 203G VIDEO WALL REC.	E	20	A	19	1	0.36	0.08																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
R	ROOMS 203, 221 REC.	E	20	A	21	1			0.90	0.50			1	22	20	A	E	ROOM 116C CONSOLE	MS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
R	ROOMS 203A, 203B, 203G REC.	E	20	A	23	1					0.72	0.72	1	24	20	A	E	ROOM 116 REC	R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
R	ROOM 203E REC.	E	20	A	25	1	1.62	0.16					1	26	E		ROOM 116C TRACK LTS	L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
R	ROOM 203E REC.	E	20	A	27	1			0.36	0.36			1	28	A	E	EXTERIOR REC.	R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
L	ROOM 203G TRACK LTS	E	20	A	29	1					0.63	0.36	1	30	20	A	E	ROOM 116C VIDEO WALL REC.	R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					31		0.84	0.36					1	32	20	A	E	ROOM 203G VIDEO WALL REC.	R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
R	ROOM 203F OFFICE FURNITURE	E	20	A	33	3			0.84	1.92			1	34	20	A	E	STUDIO EQUIPMENT RACK	R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					37		0.48	1.80			0.84	1.80	2	30	10			FREEZER COND. UNIT (NOTE 8)	MS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
R	ROOM 116 OFFICE FURNITURE	E	20	A	39	3			0.48	0.86			2	40		15	A	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

VOLTAGE: 208Y/120 3Ø

EXISTING PANEL: P3A

FED FROM: XFMR TP3

MOUNTING: SURFACE

MAIN TYPE: MCB

MFR: GE

ENCLOSURE: NEMA1

PHASE: 3

TYPE: A SERIES

MAIN: 400 A

WIRE: 4

AIC: 22 KAIC

LC Abbr	Load Served	Wire	Tripp	Qty No	Pole	A		B		C		Pole	Qty No	Tripp	Wire	Load Served	LC Abbr								
F	PANEL 'F3B'	E	100	A	3	5	1	3	12	10	1	140	12	76	1	10	2	20	A	12	CORR 317 / CORR 301 REC.	R			
																					ROOM 310 REC.	R			
																					DEFENSE LINE 310 REC.	R			
R	SAFETY NICKEL 324 REC.	12	20	A	7	1	1	162	1	180			11	48	1	8	20	A	12	CORNER 312 REC.	R				
MS	EWC	E	20	A	9	1					0	70	1	162		1	10	20	A	12	RUNNING BACK 316 REC.	R			
MS	EWC	E	20	A	11	1							0	70	1	12	20	A	12	CORRIDOR 301 REC.	R				
MS	EWC	E	20	A	13	1		0	70	0	70				1	14	20	A	12	TEAM MEETING ROOM 304 REC.	R				
R	DINING 318B REC.	12	20	A	15	1					1	180	0	20		1	16	20	A	12	STAGE 304 REC.	R			
R	LOUNGE 308 REC.	E	20	A	17	1							0	70	0	50	1	18	20	A	12	OFFICE REC.	R		
R	DINING 318B REC.	12	20	A	19	1		1	144	1	162				1	20	20	A	12	TIGHT END 326 REC.	R				
R	CLASSROOM 338 REC.	E	20	A	21	1						0	70	0	90		1	22	20	A	12	COMPUTER 332 REC.	R		
R	CLASSROOM 334 REC.	E	20	A	23	1								0	70	0	60	1	24	20	A	12	COMPUTER 332 REC.	R	
R	CLASSROOM 332 REC.	E	20	A	25	1		1	100	1	100				1	26	20	A	12	COMPUTER 332 REC.	R				
R	TELECOM 319 REC.	E	20	A	27	1						0	40	0	90		1	28	20	A	12	COMPUTER 332 REC.	R		
R	TELECOM 319 REC.	E	20	A	29	1								0	40	0	60	1	30	20	A	12	COMPUTER 332 REC.	R	
R	TELECOM 319 REC.	E	20	A	31	1		0	40	0	60				1	32	20	A	12	COMPUTER 332 REC.	R				
R	COMPUTER 332 REC.	E	20	A	33	1						0	90	0	60		1	34	20	A	12	COMPUTER 332 REC.	R		
MS	ROOM 321 HAND DRYER	E	20	A	35	1								1	20	0	60		1	36	20	A	12	COMPUTER 332 REC.	R
MS	LOUNGE 308 HAND DRYER	E	20	A	37	1		1	120	0	60				1	38	20	A	12	COMPUTER 332 REC.	R				
MS	ROOM 315 HAND DRYER	E	20	A	39	1						1	20	0	60		1	40	20	A	12	COMPUTER 332 REC.	R		
R	LOUNGE 308 FLOOR BOX	E	20	A	41	1							0	40	0	40	1	42	20	A	12	CAB 308 REC.	R		

LOAD

	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	4.30 kVA	125.00%	5.38 kVA	1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATINGS.
L LIGHTING - EXTERIOR	0.02 kVA	0.00%	0.00 kVA	2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
H HEATING	0.00 kVA	0.00%	0.00 kVA	ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER
C COOLING	0.00 kVA	0.00%	0.00 kVA	4. ALL INCOMING PANEL & BREAK LUGS SHALL BE COLD-DEFORMED
V VENTILATION	0.00 kVA	0.00%	0.00 kVA	5. PROVIDE NEW TYPEWRITTEN PANELBOARD SCHEDULE.
M MOTORS	1.32 kVA	100.00%	1.32 kVA	"E" DENOTES EXISTING NEW WORK, PROVIDE ACCORDINGLY.
K KITCHEN	0.00 kVA	0.00%	0.00 kVA	7. BOLD INDICATES NEW WORK, PROVIDE ACCORDINGLY.
R / RECEPTACLES	40.94 kVA	62.21%	25.47 kVA	
W WATER HEATER	0.00 kVA	0.00%	0.00 kVA	
MS MIS	25.30 kVA	100.00%	25.30 kVA	
S Spare	0.00 kVA	0.00%	0.00 kVA	
E ELEVATOR	0.00 kVA	0.00%	0.00 kVA	
LD LAUNDRY	0.00 kVA	0.00%	0.00 kVA	
EV EV CHARGING	0.00 kVA	0.00%	0.00 kVA	

TOTAL KVA (CONNECTED): 71.86 kVA

TOTAL KVA (DEMAND): 57.47 kVA

TOTAL AMP (CONNECTED): 199 A

TOTAL AMP (DEMAND): 160 A

TOTAL PER PHASE (CONNECTED)

222.1 A	207.1 A	177.5 A
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LOAD CLASSIFICATION ABBREVIATIONS (CONT.)

F - FEEDER FOR DOWN STREAM PANEL. LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY



Architect
CRA Associates, Inc.
100 Europa Drive, Suite 565
Chapel Hill, NC 27517

Sports Design / Interiors
HKS, Inc.
2100 E. Cary Street, Suite 100
Richmond, VA 23223

Structural
Bennett & Pless
5430 Wade Park Blvd., Suite 400
Raleigh, NC 27601

MEP/FP
Optima Engineering
434 Fayetteville Street, Suite 2450
Raleigh, NC 27601
NC License Number: C-0914

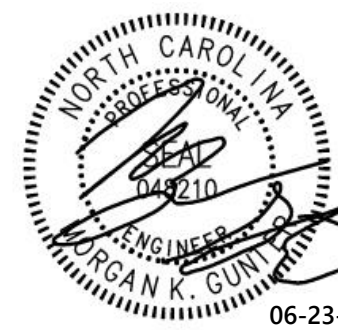
Food Service
Foodesign
220 N Ames St., Suite 101
Matthews, NC 28105



Wendell H. Murphy Football Center - Kitchen Renovation

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F

seal/signature



rev	date	description
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date	06/23/25
phase	
issued for	BD
project number	2308

PANEL SCHEDULES

sheet number

E7.02

OPTIMA# 24-0096R Sheet No. 22 of 24

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
P																	
N																	
M																	
L																	
K																	
J																	
H																	
G																	
F																	
E																	
D																	
C																	
B																	
A																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

VOLTAGE: 208Y/120 3Ø

EXISTING PANEL: P3B

FED FROM: P3A

MOUNTING: SURFACE

ENCLOSURE: NEMA1

MAIN: 225 A

MAIN TYPE: MCB

PHASE: 3

WIRE: 4

MFR: GE

TYPE: A SERIES

AIC: 22 KAIC

LC Abbr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	C	Pole	Ckt No	Tripp	Wire	Load Served	LC Abbr	
MS	DEFENSE LINE 310 PROJ. SCREEN	12	20 A	1	1	1.00	1.00			1	2	20 A	12	RUNNING BACK 316 PROJ. SCREEN	MS
R	RECEIVER 314 REC.	12	20 A	3	1		1.80	1.00		1	4	20 A	12	SAFETY/NICKEL 314 PROJ. SCREEN	MS
MS	CORNER 312 PROJ. SCREEN	12	20 A	5	1			1.00	1.00	1	6	20 A	12	TIGHT END 306 PROJ. SCREEN	MS
R	LOUNGE 318 REC.	12	20 A	7	1	0.50	1.00			1	8	20 A	12	DEF. LINE 310 / REC. 310A PROJ.	MS
MS	RECEIVER 314 PROJ. SCREEN	12	20 A	9	1		1.00	2.00		1	10	20 A	12	CORN. 312 / SAFE/NICK. 314 PROJ.	MS
MS	ROOM 304 MOTORIZED SCREEN	E	20 A	11	1			1.00	1.00	1	12	20 A	12	RUN. BK 316 / TIGHT END 316A PROJ.	MS
MS	ROOM 304 MOTORIZED SCREEN	E	20 A	13	1	1.00	1.44			1	14	20 A	12	DINING 318E REC.	R
R	ROOM 304 PROJECTOR	E	20 A	15	1		1.00	1.00		1	16	20 A	12	SOUND SYSTEM EQUIPMENT RACK	MS
MS	STAIR DOOR CONTROL	E	20 A	17	1			0.60	1.00	1	18	20 A	12	SOUND SYSTEM EQUIPMENT RACK	MS
R	PORT AUDIO DIST 318 REC.	E	20 A	19	1	1.00	1.00			1	20	20 A	E	ROOM 339 PROJECTOR	R
MS	EXTERIOR BALCONY SIGNAGE	E	20 A	21	1		1.00	1.00		1	22	20 A	E	ROOM 304 PROJECTOR	R
L	CORRIDOR 301 LIGHTS	E	20 A	23	1			1.30	1.00	1	24	20 A	E	ROOM 304 SOUND SYSTEM	MS
L	CORRIDOR 301 LIGHTS	E	20 A	25	1	1.30	0.20			1	26	20 A	E	ROOM 308 SOUND SYSTEM	MS
L	CORRIDOR 301 LIGHTS	E	20 A	27	1		0.70	0.40		1	28	20 A	E	SERVING 318 REC.	R
L	CORRIDOR 301 LIGHTS	E	20 A	29	1			1.00	0.50	1	30	20 A	E	ROOM 318 REC.	R
R	OFFICE 318A / 318B REC. (NOTE 9)	12	20 A	31	1	1.26	1.00			1	32	20 A	E	ROOM 304 SOUND SYSTEM	MS
R	ROOM 330 / ROOM 328 REC.	E	20 A	33	1		0.50	0.72		1	34	20 A	E	LOUNGE 308 REC.	R
MS	KITCHEN HOOD LIGHTING	12	20 A	35	1			0.40	--	1	36	--	-	SPACE ONLY	
MS	KITCHEN HOOD CNTRLs	12	20 A	37	1	0.40	--			1	38	--	-	SPACE ONLY	
MS	ELECTRONIC SIGNAGE	12	20 A	39	1		0.50	0.14		1	40	15 A	-	EF-16 (NOTE 9)	M
MS	ENTRY POS SYSTEM / TABLET	12	20 A	41	1			0.50	1.18	1	42	15 A	-	EF-16 (NOTE 9)	M

LOAD

Connected Load

Demand Factor

Estimated Demand

NOTES:

1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.

2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.

3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.

4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.

5. PROVIDE NEW TYPEWRITTEN PANELBOARD SCHEDULE.

6. "E" DENOTES EXISTING.

7. BOLD INDICATES NEW WORK. PROVIDE ACCORDINGLY.

8. REFER TO MECHANICAL SCHEDULES / SHEET E8.01 FOR WIRE SIZE.

9. CIRCUIT IS INCLUDED IN ALTERNATE #2 ONLY. CIRCUIT SHALL NOT BE INCLUDED IN BASE BID DRAWINGS.

TOTAL KVA (CONNECTED):

36.34 kVA

TOTAL PER PHASE: (CONNECTED)

TOTAL KVA (DEMAND):

101.6 A

107.1 A

95.7 A

TOTAL AMP. (CONNECTED):

101 A

TOTAL AMP. (DEMAND):

102 A

LOAD CLASSIFICATION ABBREVIATIONS (CONT.)

F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

VOLTAGE: 208Y/120 3Ø

EXISTING PANEL: P4A

FED FROM: XFMR TP4

MOUNTING: SURFACE

ENCLOSURE: NEMA1

MAIN: 400 A

MAIN TYPE: MCB

PHASE: 3

WIRE: 4

MFR: GE

TYPE: A SERIES

AIC: 22 KAIC

LC Abbr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	C	Pole	Ckt No	Tripp	Wire	Load Served	LC Abbr	
F	PANEL 'P4B'	E	150 A	3	3	15.10	7.60			3	4	80 A	E	PANEL 'P4C'	F
R	ELEVATOR MACHINE ROOM REC.	E	20 A	7	1	0.20	4.00			1	8	20 A	E	EWIC	MS
R	RECEPTION 423 REC.	E	20 A	9	1		0.20	4.00		3	10	100 A	E	DIMMING PANEL	F
R	CORRIDOR 410 REC.	E	20 A	11	1			1.40	4.00	1	12	20 A	-	EF-11 (NOTE 8)	M
R	CORRIDOR 410 REC.	E	20 A	13	1	1.40	1.18			1	14	20 A	E	ROOF REC.	R
R	CORRIDOR 417 REC.	E	20 A	15	1		1.30	1.00		1	16	20 A	E	MEDIA STORAGE 425 REC.	R
R	MEDIA STORAGE 404 REC.	E	20 A	17	1			0.70	0.80	1	18	20 A	E	WORK ROOM 424 REC.	R
R	MEDIA STORAGE 404 REC.	E	20 A	19	1	0.60	1.10			1	20	20 A	E	WORK ROOM 424 REC.	R
R	ST. SECRETARY 429 REC.	E	20 A	21	1		0.60	0.50		1	22	20 A	E	ST. SECRETARY 425 REC.	R
R	ST. SECRETARY 429 REC.	E	20 A	23	1			0.60	0.30	1	24	20 A	E	MEDIA STORAGE 425 REC.	R
R	ST. SECRETARY 429 REC.	E	20 A	25	1	0.60	0.80			1	26	20 A	E	MEDIA STORAGE 425 REC.	R
R	MEDIA STORAGE 404 REC.	E	20 A	27	1		0.30	0.60		1	28	20 A	E	POST PRODUCTION 404 REC.	R
R	MEDIA STORAGE 404 REC.	E	20 A	29	1			1.00	0.60	1	30	20 A	E	POST PRODUCTION 406 REC.	R
R	MEDIA STORAGE 404 REC.	E	20 A	31	1	1.00	0.80			1	32	20 A	E	POST PRODUCTION 406 REC.	R
R	MEDIA STORAGE 404 REC.	E	20 A	33	1		0.80	1.00		1	34	20 A	E	POST PRODUCTION 406 REC.	R
R	MEDIA STORAGE 404 REC.	E	20 A	35	1			0.60	0.80	1	36	20 A	E	POST PRODUCTION 406 REC.	R
R	HEAD COACH 414 REC.	E	20 A	37	1	0.70	1.00			1	38	20 A	E	HEAD COACH 414 CURTAINS	Sp...
R	HEAD COACH 414 REC.	E	20 A	39	1		0.70	0.70		1	40	20 A	E	HEAD COACH 414 CURTAINS	Sp...
MS	EWIC	E	20 A	41	1			0.70	0.00	1	42	20 A	-	SPACE ONLY	MS

LOAD

Connected Load

Demand Factor

Estimated Demand

NOTES:

1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.

2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.

3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.

4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.

5. PROVIDE NEW TYPEWRITTEN PANELBOARD SCHEDULE.

6. "E" DENOTES EXISTING.

7. BOLD INDICATES NEW WORK. PROVIDE ACCORDINGLY.

8. REFER TO MECHANICAL SCHEDULES / SHEET E8.01 FOR WIRE SIZE.

TOTAL KVA (CONNECTED):

97.68 kVA

TOTAL PER PHASE: (CONNECTED)

TOTAL KVA (DEMAND):

95.08 kVA

301.2 A

258.8 A

255.0 A

TOTAL AMP. (CONNECTED):

271 A

TOTAL AMP. (DEMAND):

264 A

LOAD CLASSIFICATION ABBREVIATIONS (CONT.)

F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

VOLTAGE: 208Y/120 3Ø

PANEL: KP1A

FED FROM: SW K1

MOUNTING: RECESSED

ENCLOSURE: NEMA4X

MAIN: 600 A

MAIN TYPE: MCB (NOTE 11)

PHASE: 3

WIRE: 4

MFR: GE

TYPE: 20-INCH WIDE PANEL

AIC: 22 KAIC

LC Abbr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	C	Pole	Ckt No	Tripp	Wire	Load Served	LC Abbr				
K	CHAR BOILER (NOTE 9)	NOTE 7	40 A	3	3	3.60	0.70			1	2	20 A	-	REFRIGERATOR (NOTE 7 & 8)	MS			
MS	REFRIGERATOR (NOTE 7 & 8)	-	20 A	7	1	0.71	7.47			1	4	20 A	-	FRY HOLDING STATIONS (NOTE 7 & 8)	K			
MS	REACH-IN FREEZER (NOTE 7 & 8)	-	20 A	9	1		0.95	7.47		3	10	80 A	NOTE 7	COMBI OVEN (NOTE 9)	K			
K	COMBI OVEN (NOTE 9)	NOTE 7	80 A	13	3	7.47	4.00			7.47	7.47	12		TILTING SKILLET (NOTE 9)	K			
K	COMBI OVEN (NOTE 9)	NOTE 7	80 A	15	3			7.47	4.00		7.47	4.00	20	50 A	NOTE 7	COMBI OVEN (NOTE 9)	K	
K	ELECTRIC FRYER (NOTE 9)	NOTE 7	70 A	25	3	5.67	7.77			5.67	7.77	26		90 A	NOTE 7	GRIDDLE (NOTE 9)	K	
K	ELECTRIC FRYER (NOTE 9)	NOTE 7	70 A	31	3	5.67	16.01			5.67	7.77	32		34	225 A	NOTE 13	PANEL 'KP1B'	F
MS	WORKTOP FREEZER (NOTE 7 & 8)	-	20 A	35	1			0.48	17.97			36						Sp...
Sp...	SPARE	-	20 A	37	1	0.00	0.00					1	38	20 A	-	SPARE		Sp...
Sp...	SPARE	-	20 A	39	1		0.00	0.00				1	40	20 A	-	SPARE		Sp...
Sp...	SPARE	-	20 A	41	1			0.00	0.00			1	42	20 A	-	SPARE		Sp...

LOAD

Connected Load

Demand Factor

Estimated Demand

NOTES:

1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.

2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.

3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.

4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.

5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.

6. PROVIDE METAL DIRECTORY FRAME.

7. REFER TO KITCHEN EQUIPMENT SCHEDULE / SHEET E5.02 FOR WIRE SIZE.

8. PROVIDE CLASS A GFI (60A-PERSONNEL) BRKR (250' MAX).

9. PROVIDE BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION. PROVISIONS FOR LOCKING SHALL REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED.

10. REFER TO MECHANICAL SCHEDULES / SHEET E8.01 FOR WIRE SIZE.

11. PROVIDE BREAKER WITH SHUNT TRIP.

12. PROVIDE PANEL WITH STAINLESS STEEL COVER.

13. REFER TO RISER DIAGRAM / SHEET E7.01 FOR WIRE SIZE.

TOTAL KVA (CONNECTED):

226.41 kVA

TOTAL PER PHASE: (CONNECTED)

TOTAL KVA (DEMAND):

153.17 kVA

616.6 A

640.8 A

634.1 A

TOTAL AMP. (CONNECTED):

628 A

TOTAL AMP. (DEMAND):

425 A

LOAD CLASSIFICATION ABBREVIATIONS (CONT.)

F - FEEDER FOR DOWN STREAM PANEL LOADS ARE INCLUDED IN THE PANEL LOAD SUMMARY.

VOLTAGE: 208Y/120 3Ø

PANEL: KP1B

FED FROM: KP1A

MOUNTING: RECESSED

ENCLOSURE: NEMA4X

MAIN: 225 A

MAIN TYPE: MLO

PHASE: 3

WIRE: 4

MFR: GE

TYPE: 20-INCH WIDE PANEL

AIC: 22 KAIC

LC Abbr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	C	Pole	Ckt No	Tripp	Wire	Load Served	LC Abbr			
K	COLD FOOD WELL (NOTE 7 & 8)	-	20 A	1	1	0.52	0.52			1	2	20 A	-	COLD FOOD WELL (NOTE 7 & 8)	K		
K	COLD FOOD WELL (NOTE 7 & 8)	-	20 A	3	1		0.52	0.52		1	4	20 A	-	COLD FOOD WELL (NOTE 7 & 8)	K		
MS	UC REF. (NOTE 7 & 8)	-	20 A	5	1			0.30	1.44	1	6	20 A	-	UC REF. (NOTE 7 & 8)	K		
K	WAFFLE MAKER (NOTE 7 & 8)	-	20 A	7	1	1.36	0.30			1	8	20 A	-	UC REF. (NOTE 7 & 8)	MS		
K	WAFFLE MAKER (NOTE 7 & 8)	-	20 A	9	1		1.36	1.30		1	10	20 A	NOTE 7	ICE MAKER (NOTE 9)	MS		
K	POP-UP TOASTER (NOTE 7 & 8)	-	20 A	11	1			1.44	1.30	2	12	20 A			MS		
K	MILK DISPENSER (NOTE 7 & 8)	-	20 A	13	1	0.18	0.91			3	16	20 A	12	COOLER COND. UNIT	MS		
MS	ROLL-IN REF. (NOTE 7 & 8)	-	20 A	15	1		1.26	0.91		3	18	20 A	12	COOLER LTS	MS		
K	DISHWASHER (NOTE 9)	NOTE 7	110 A	19	3	10.20	0.20			10.20	0.91	1	20	20 A	12	COOLER LTS	MS
MS	FREEZER LTS	12	20 A	23	1		10.20	0.11		2	22	20 A	12	COOLER EVAP. COIL	MS		
MS	FREEZER EVAP. COIL	12	20 A	25	2	0.25	1.57			3	28	20 A	12	FRZR COND. UNIT	MS		
Sp...	SPARE	-	20 A	29	1		0.25	1.57		0.00	1.57	30					MS
Sp...	SPARE	-	20 A	31	1	0.00	--			1	32	--	-	SPACE ONLY			
Sp...	SPARE	-	20 A	33	1		0.00	--		1	34	--	-	SPACE ONLY			
Sp...	SPARE	-	20 A	35	1			0.00	--	1	36	--	-	SPACE ONLY			
Sp...	SPARE	-	20 A	37	1	0.00	--			1	38	--	-	SPACE ONLY			
Sp...	SPARE	-	20 A	39	1		0.00	--		1	40	--	-	SPACE ONLY			
Sp...	SPARE	-	20 A	41	1			0.00	--	1	42	--	-	SPACE ONLY			

LOAD

Connected Load

Demand Factor

Estimated Demand

NOTES:

1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.

2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.

3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.

4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.

5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.

6. PROVIDE METAL DIRECTORY FRAME.

7. REFER TO KITCHEN EQUIPMENT SCHEDULE / SHEET E5.02 FOR WIRE SIZE.

8. PROVIDE CLASS A GFI (60A-PERSONNEL) BRKR (250' MAX).










9. PROVIDE BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION. PROVISIONS FOR LOCKING SHALL REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED.

10. REFER TO MECHANICAL SCHEDULES / SHEET E8.01 FOR WIRE SIZE.

11.

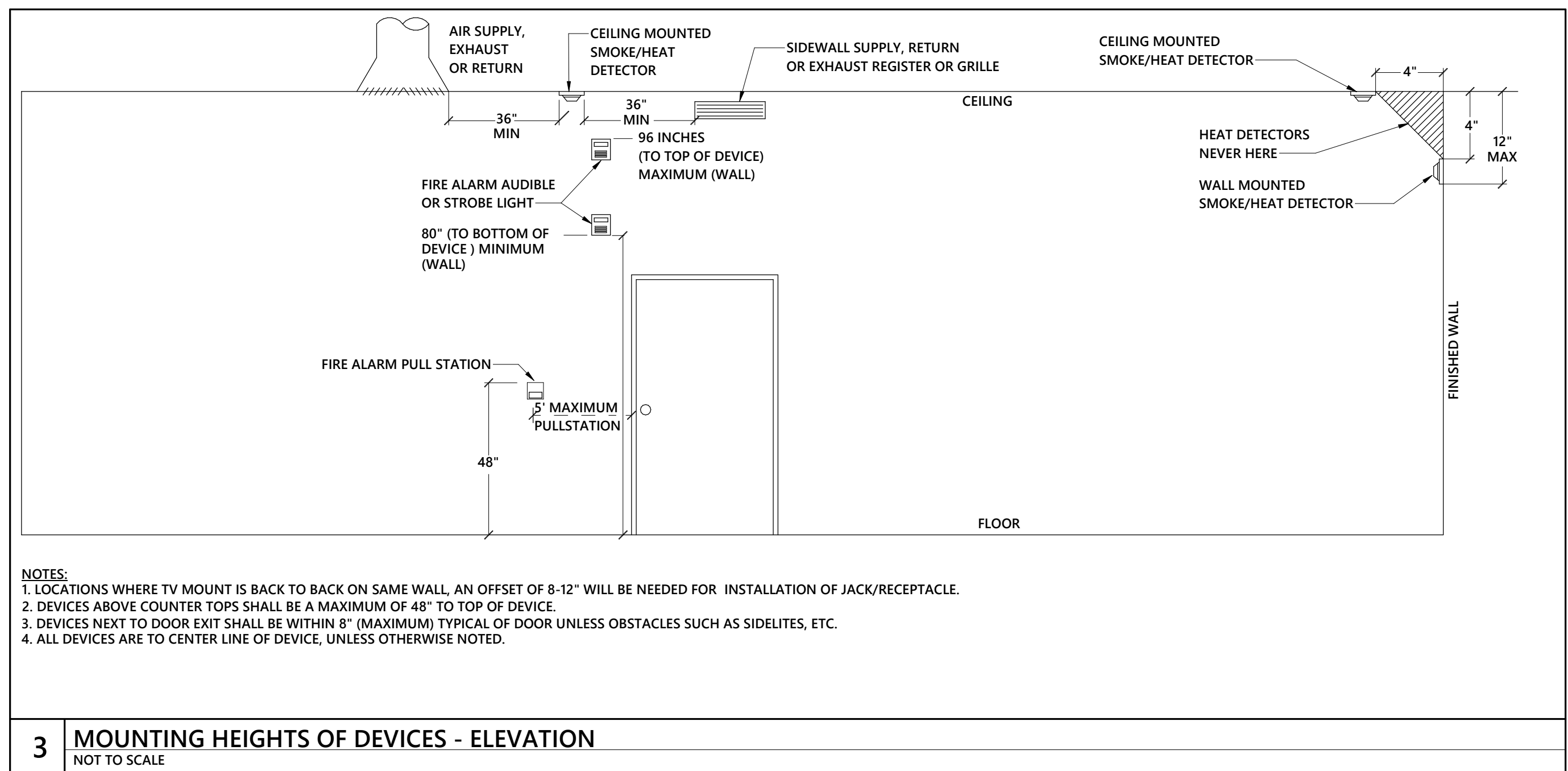
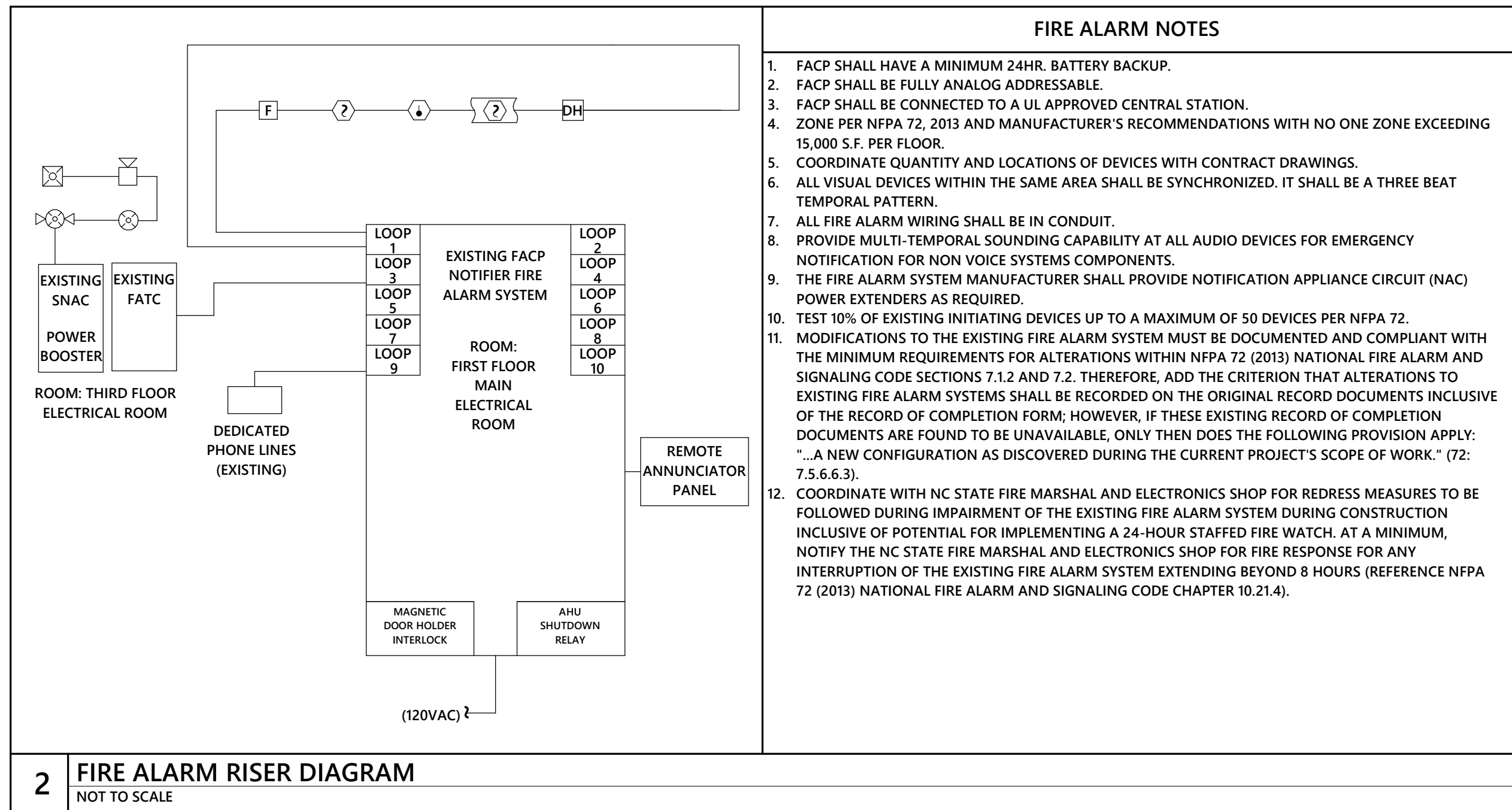
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FIRE ALARM SHEET INDEX	
FA0.01	FIRE ALARM LEGEND AND NOTES
FA1.01	LEVEL 03 - FIRE ALARM PLAN - DEMOLITION
FA1.02	LEVEL 03 - FIRE ALARM PLAN - NEW WORK
FA1.02A	LEVEL 03 - FIRE ALARM PLANS - ALTERNATE #2

NFPA FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM TERMINAL CABINET
	NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDER
	ADDRESSABLE CONTROL MONITOR
	PULLSTATION/FIRE ALARM
	SMOKE DETECTOR/SENSOR (DEFAULT PHOTOELECTRIC TYPE)
	FIRE ALARM STROBE (CANDELAS), RED FINISH
	ADA COMPLIANT WALL MOUNTED FIRE ALARM SPEAKER WITH STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. RED FINISH.
	FIRE ALARM STROBE (CANDELAS), WHITE FINISH
	FIRE ALARM HORN W/STROBE (CANDELAS), WHITE FINISH

FIRE ALARM SPECIFICATIONS

- A. SYSTEM SHALL BE A CENTRALIZED, ANALOG, ADDRESSABLE, FULLY ELECTRONICALLY SUPERVISED (INCLUDING AUXILIARY SYSTEMS INTERCONNECT WIRING) SYSTEM LISTED BY UL IN COMPLIANCE WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA). ALL FINAL CONNECTIONS, TESTING AND ADJUSTMENTS SHALL BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF AN AUTHORIZED FACILITY REPRESENTATIVE. SYSTEM SHALL BE SIMPLE, UNIFORM, SIEMENS, OR APPROVED EQUIVA AS ACCEPTED BY THE ENGINEER. SYSTEM SHALL HAVE A 24HR MINIMUM BATTERY BACKUP.
- B. INITIATING DEVICE ACTIVATION SHALL CAUSE OPERATION OF THE PROPER ALARM CIRCUIT IN THE CONTROL PANEL, AND OPERATE ALL AUDIBLE AND VISUAL INDICATING ALARMS. ALL AIR HANDLING UNITS SHALL BE STOPPED UPON ANY ALARM INPUT. EACH AIR HANDLER UNIT SHALL BE PROVIDED WITH A SYSTEM CONTROLLED RELAY TO EFFECT SHUTDOWN. ALL ALARM DEVICES AND LAMPS SHALL CONTINUE TO OPERATE UNTIL THE INITIATING DEVICE IS RESET. SUBSEQUENT ALARMS SHALL NOTIFY THE SYSTEM. ALL AUDIBLE AND VISUAL SIGNAL SHALL INDICATE SYSTEM TROUBLE. THE CONTROL PANEL SHALL PROVIDE FOR ACTIVATING A UL LISTED CENTRAL STATION SIGNAL FOR NOTIFYING THE FIRE DEPARTMENT.
- C. MANUAL STATIONS SHALL BE NON-CODED, WITH DUAL-ACTION PULL AND KEY TYPE RESET, SEMI-RETRACT MOUNTED, CONDUIT LIGHT AND HORN SIGNALS SHALL BE SEIGNMENT MOUNTED. WIRING SHALL BE IN CONDUIT AS PREVIOUSLY SPECIFIED, #14 AWG MINIMUM, THIN. ALL J-BOXES USED FOR THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.
- D. SPRINKLER SYSTEM TAMPER SWITCHES SHALL BE CONNECTED INTO A COMMON ZONE WHICH SHALL DISTINGUISH BETWEEN A CIRCUIT FAULT AND A CLOSED VALVE. A CLOSED VALVE SHALL BE INDICATED AS AN ALARM CONDITION, BUT WILL NOT ACTIVATE THE AUDIO-VISUAL DEVICES AND SHALL CAUSE A SUPERVISORY SIGNAL TO BE TRANSMITTED TO THE FIRE DEPARTMENT.
- E. CONDUCTORS SHALL BE PLENUM-RATED AND INSTALLED IN CONDUIT AND INSTALLED IN COMPLIANCE WITH NFPA 70, ARTICLE 760. IN ADDITION TO WIRING METHODS 300.4.
- F. ALL FIRE ALARM WIRING SHALL BE CLASS B.
- G. PROVIDE ALL REQUIRED MODULES, POWER EXTENDERS, PROGRAMMING, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.
- H. SUBMIT FIRE ALARM SHOP DRAWINGS CONSISTING OF PRODUCT DATA, TO THE ENGINEER AND FOR APPROVAL.
- I. FURNISH NFPA 72 CERTIFICATION REPORT AND SUBMIT TO ENGINEER AND AUTHORITY HAVING JURISDICTION.
- J. WARRANTY - ALL WORK PERFORMED AND ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS AND SHALL REMAIN SO FOR A PERIOD OF AT LEAST TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE PROFESSIONAL ENGINEER AND/OR OWNER. THE FULL COST OF MAINTENANCE, REPAIR, AND REPLACEMENT AS REQUIRED FOR DEFECTS OCCURRING DURING THE TWO YEAR PERIOD SHALL BE IMMEDIATELY CORRECTED AT NO ADDITIONAL COST TO THE OWNER. ANY DEFECTS THAT RENDER THE SYSTEM INOPERATIVE SHALL BE REPAIRED WITHIN 24 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR. OTHER DEFECTS SHALL BE REPAIRED WITHIN 48 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR.
- K. AUDIBLE DEVICES WITHIN SLEEPING ROOMS SHALL PROVIDE A SQUARE WAVE 202HZ TONE COMPATIBLE WITH NFPA 72 4.5.4.3.



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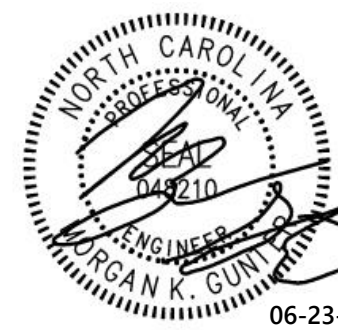
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NCSU Building #:135F

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rev	date	description
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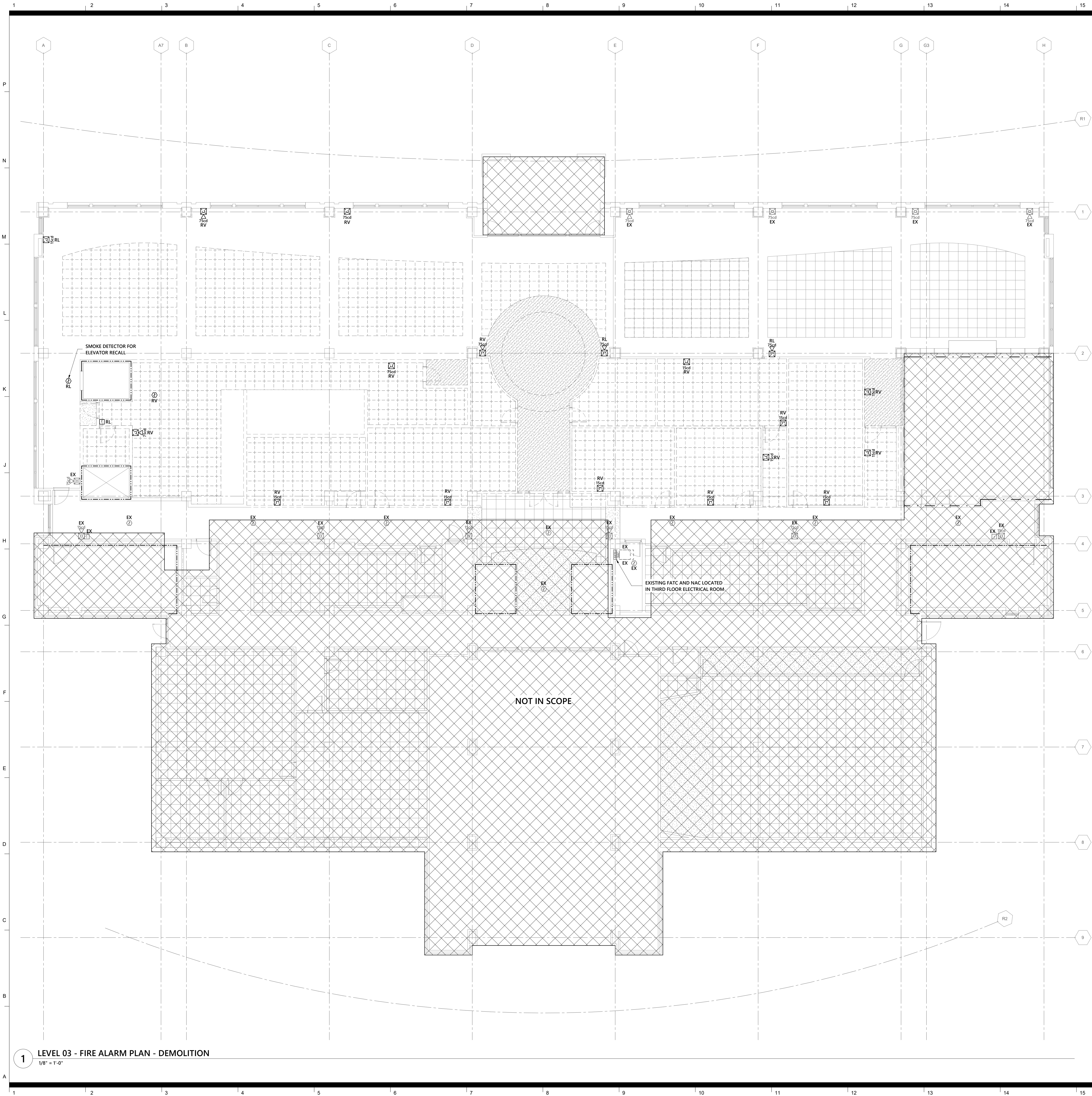
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FIRE ALARM LEGEND AND NOTES

sheet number

FA0.01



- GENERAL NOTES - DEMOLITION**
- A. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
- B. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
- C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUITS TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
- D. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- E. COORDINATE WITH NCSU COMTECH TO FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS DIRECTED BY NCSU COMTECH. COORDINATE WITH NCSU COMTECH TO PULL TEMPORARY CABLING AS NEEDED.
- F. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- G. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUITS.
- H. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
- I. COORDINATE THE REMOVAL OF ANY WIRELESS ACCESS POINTS, DATA OUTLETS, AND CABLING WITH NCSU COMTECH PRIOR TO DEMOLITION PHASE.

RENOVATION LEGEND ABBREVIATIONS	
ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

RATED WALL LEGEND	
----	EXISTING 2-HR FIRE BARRIER
----	EXISTING 1-HR FIRE BARRIER



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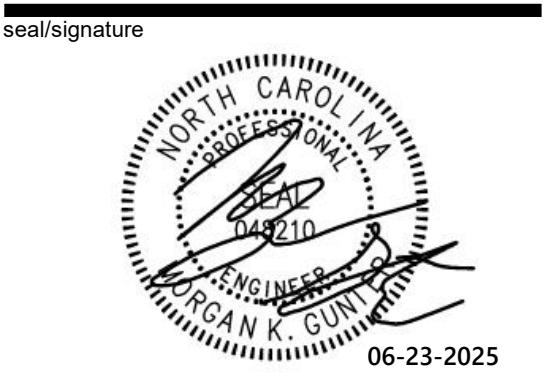
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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F



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**LEVEL 03 - FIRE
ALARM PLAN -
DEMOLITION**

sheet number

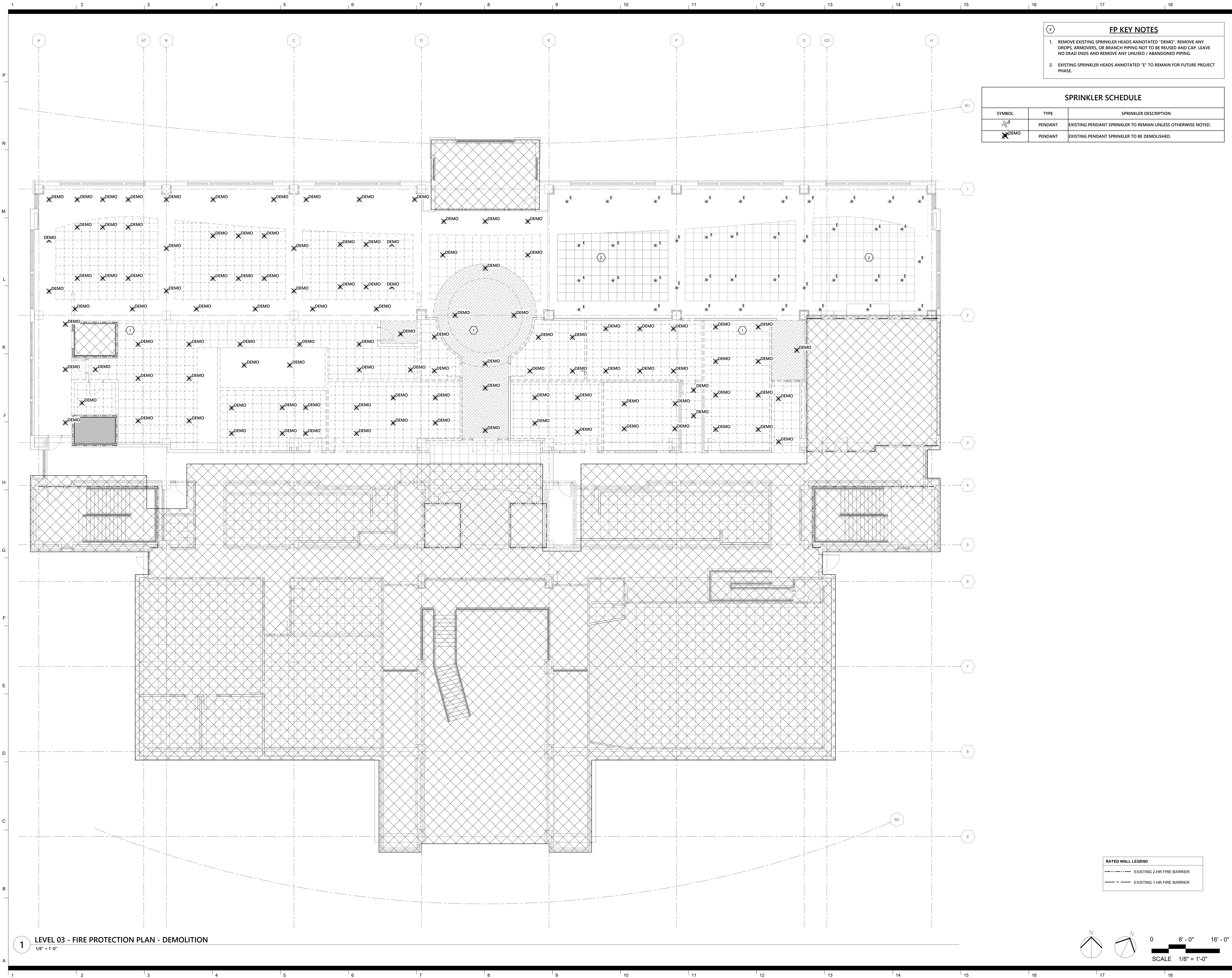
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OPTIMAR 24-0096R Sheet No. 2 of 4

B. ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED. SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED, ALL POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.



ER	EXISTING ITEM RELOCATED TO THIS LOCATION
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT



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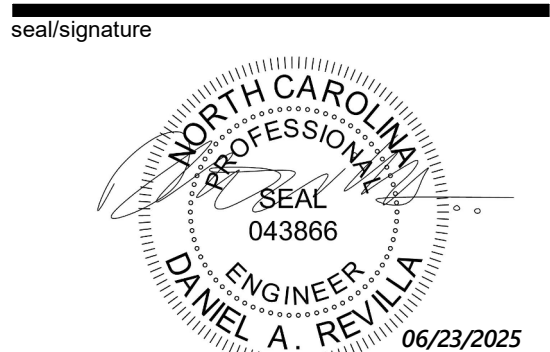
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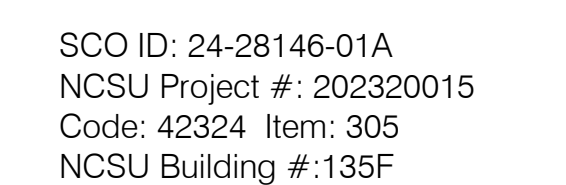
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**LEVEL 03 - FIRE
PROTECTION PLAN -
DEMOLITION**

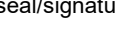
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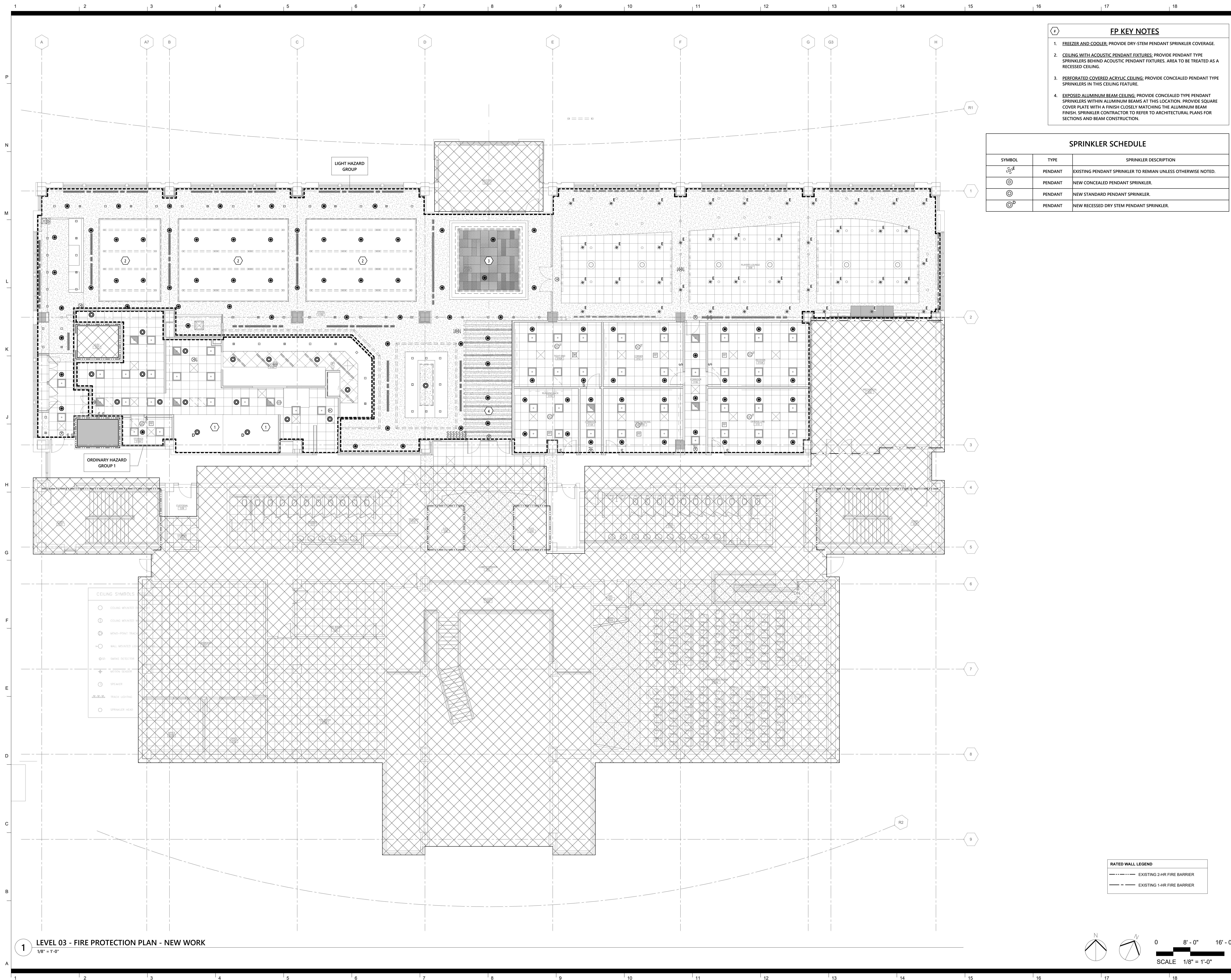
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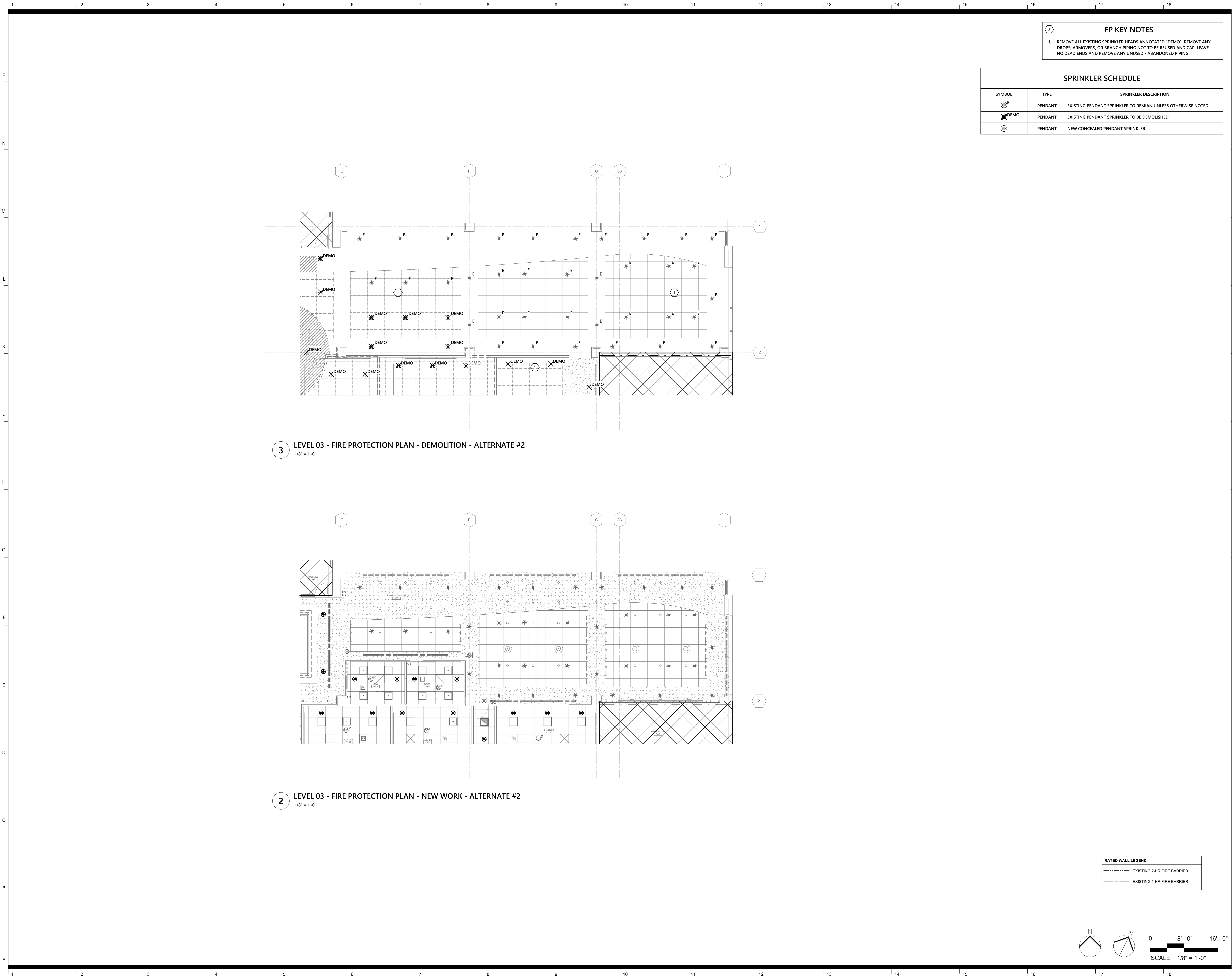
LEVEL 03 - FIRE PROTECTION PLAN - NEW WORK

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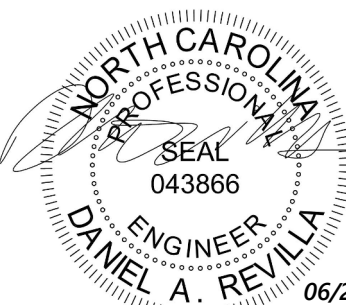
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**LEVEL 03 - FIRE
PROTECTION PLANS
- ALTERNATE #2**

sheet number

FP1.02A

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
ADD	ADDENDUM	MAX	MAXIMUM
AFB	ABOVE FINISHED FLOOR	MBH	ONE THOUSAND BTU PER HOUR
AFF	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CLG	CEILING	NO	NORMALLY OPEN
D	DEGREE	NTS	NOT TO SCALE
DB	DRY BULB	O/A	OUTSIDE AIR
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRICAL	PSIG	POUNDS PER SQUARE INCH GAUGE
EQUIP	EQUIPMENT	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R/A	RETURN AIR
EZA	EXHAUST AIR	RH	RELATIVE HUMIDITY
EXIST	EXISTING	RL/A	RELIEF AIR
F	DEGREES FAHRENHEIT	RM	REMAIN
FD	FIRE DAMPER	RPM	REVOLUTIONS PER MINUTE
FL	FLOOR	SF	SQUARE FOOT
FM	FEET PER MINUTE	S/A	SUPPLY AIR
FT	FOOT/FEET	SF	SQUARE FOOT
GC	GENERAL CONTRACTOR	SD	SMOKE DAMPER
GPM	GALLONS PER MINUTE	SP	STATIC PRESSURE
HP	HORSE POWER	T	THERMOSTAT
HTG	HEATING	TD	TEMPERATURE DROP
HTR	HEATER	TEMP	TEMPERATURE
HW	HOT WATER	TYP	TYPICAL
IN	INCH	VAV	VARIABLE AIR VOLUME
LB	POUND	VENT	VENTILATION
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE		

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	EWLH	ELECTRIC WATER HEATER
ACC	AIR COOLED CONDENSER	FCU	FAN COIL UNIT
ACCU	AIR COOLING CONDENSING UNIT	FP	FIRE PUMP
AHU	AIR HANDLING UNIT	GI	GREASE INTERCEPTOR
AS	AIR SEPARATOR	GRV	GRAVITY ROOF VENTILATOR
B	BOILER	HWP	HEATING WATER PUMP
CH	CHILLER	HX	HEAT EXCHANGER
COOL	COOLING TOWER	HRU	HEAT RECOVERY UNIT
CUH	CABINET UNIT HEATER	PRV	POWER ROOF VENTILATOR
CWP	CONDENSER WATER PUMP	RE	RETURN/EXHAUST FAN
CHWP	CHILLED WATER PUMP	RTU	ROOFTOP UNIT
DBP	DOMESTIC WATER BOOSTER PUMP	SEP	SEWAGE EJECTOR PUMP
DC	DUCT MOUNTED COIL	SF	SUPPLY FAN
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER
ET	EXPANSION TANK		

MECHANICAL DUCT SYMBOLS

	DESCRIPTION
	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
	OVAl DUCT SIZE TAG (WIDTH / HEIGHT)
	ROUND DUCT SIZE TAG (DIAMETER)
	EXISTING DUCT TAG
	DUCT BEING DEMOLISHED
	SUPPLY AIR
	OUTDOOR AIR
	RETURN AIR
	EXHAUST AIR
	GREASE EXHAUST AIR
	SUPPLY AIR DIFFUSER (4-WAY)
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	POINT OF EXISTING TO NEW CONNECTION
	POINT OF DISCONNECT TO EXISTING CONNECTION
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
N.I.C.	NOT IN CONTRACT
(EX)	EXISTING
AFF	ABOVE FINISHED FLOOR
DN	DOWN
UP	UP
	SECTION CUT
	REFERING DETAIL NUMBER
	REFERING SHEET NUMBER

MECHANICAL PIPING SYMBOLS

SYMBOL	DESCRIPTION
	BUTTERFLY VALVE
	3-PIECE BALL VALVE
	CHECK VALVE
	STRAINER WITH BLOWDOWN VALVE WITH HOSE CONN.
	BALANCING VALVE
	B&G CIRCUIT SETTER
	UNION
	THERMOMETER
	PRESSURE GAGE & COCK
	GAGE COCK
	FLOW SWITCH
	ECCENTRIC REDUCER
	CONCENTRIC REDUCER
	STEAM TRAP, F&T
	STEAM TRAP, TB
	CONTROL VALVE
	GAS COCK
	PRESSURE REDUCING/REGULATING VALVE
	SOLENOID VALVE

MECHANICAL PIPING SYSTEMS LEGEND

SYMBOL	DESCRIPTION
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	HOT WATER RETURN
	HOT WATER SUPPLY

MECHANICAL ACCESSORIES SYMBOL LEGEND

SYMBOL	DESCRIPTION
	THERMOSTAT / TEMP SENSOR (4" - 0" AFF TO TOP)
	SWITCH (4" - 0" AFF TO TOP)
	RECTANGULAR DUCT FIRE DAMPER W/ ACCESS DOOR (SEE DETAIL)
	ROUND DUCT FIRE DAMPER W/ACCESS DOOR (SEE DETAIL)

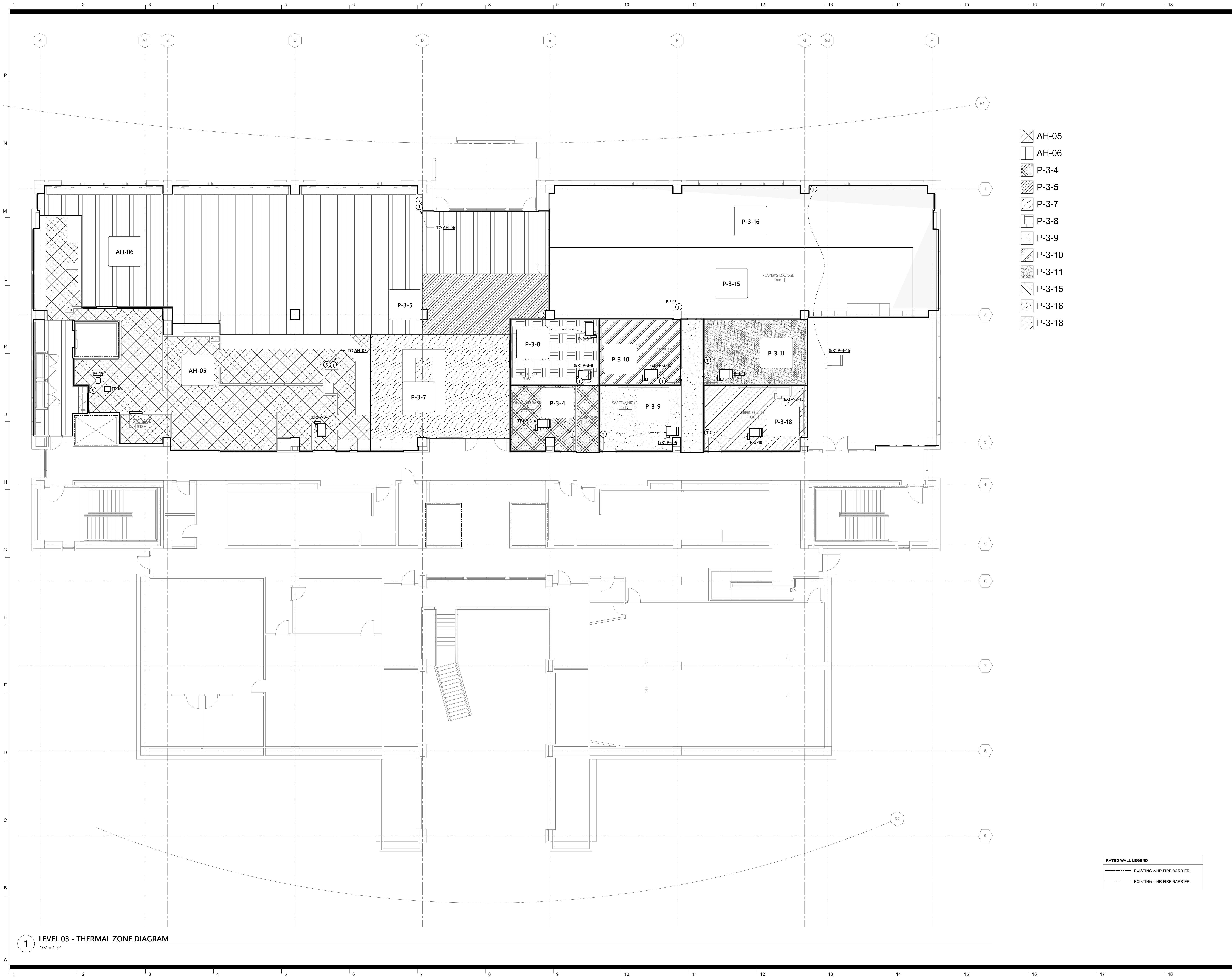
CONTROLS SCOPE OF WORK

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH EXISTING BUILDING CONTROLS MANUFACTURER (JOHNSON CONTROLS) AND PROVIDE SUPPORT FOR UPDATING ALL EXISTING AREA OF WORK PLAN THERMOGRAPHICS, INCLUDING ALL TEMPERATURE SENSOR LOCATIONS. A CAD FILE OF THE NEW WORK PLAN IS AVAILABLE UPON REQUEST FOR USE IN THERMOGRAPHIC FLOOR UPDATE.
- ALL TEMPERATURE SENSORS WITHIN THE SCOPE OF WORK SHALL MATCH EXISTING BUILDING STANDARD, UNIT IDENTIFICATION AND LABELING SHALL BE COORDINATED WITH BUILDING OWNER'S FACILITY MANAGEMENT STAFF.
- MECHANICAL CONTRACTOR SHALL CONFIRM ALL TEMPERATURE SETPOINTS, DEADBANDS, AND SCHEDULING SETPOINTS WITH FACILITIES MANAGEMENT.

MECHANICAL GENERAL NOTES

SEE SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS. THESE GENERAL NOTES ARE INTENDED TO SUPPLEMENT THE SPECIFICATIONS. IN THE EVENT THAT THE VERBIAGE IS IN CONFLICT OR CONTRADICTS THE REQUIREMENTS LISTED HERE, THE QUESTION SHALL BE ASKED PRIOR TO BIDDING OR THE MORE STRINGENT SHALL APPLY AT THE ENGINEER'S DISCRETION.

- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- ALL EQUIPMENT LISTED IN PROJECT SCHEDULES IS TO BE CONSIDERED DESIGN BASIS EQUIPMENT. ALL COST ASSOCIATED WITH SUBSTITUTED/NON-DESIGN BASIS EQUIPMENT TO COMPLY WITH BASIS OF DESIGN, INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, PIPING, SHEET METAL, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM



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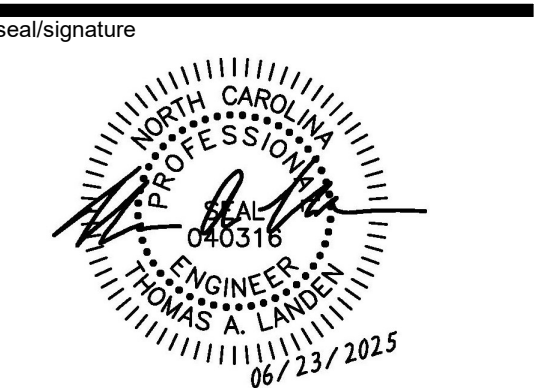
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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F



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**LEVEL 03 -
THERMAL ZONE
DIAGRAM**

sheet number

M0.03





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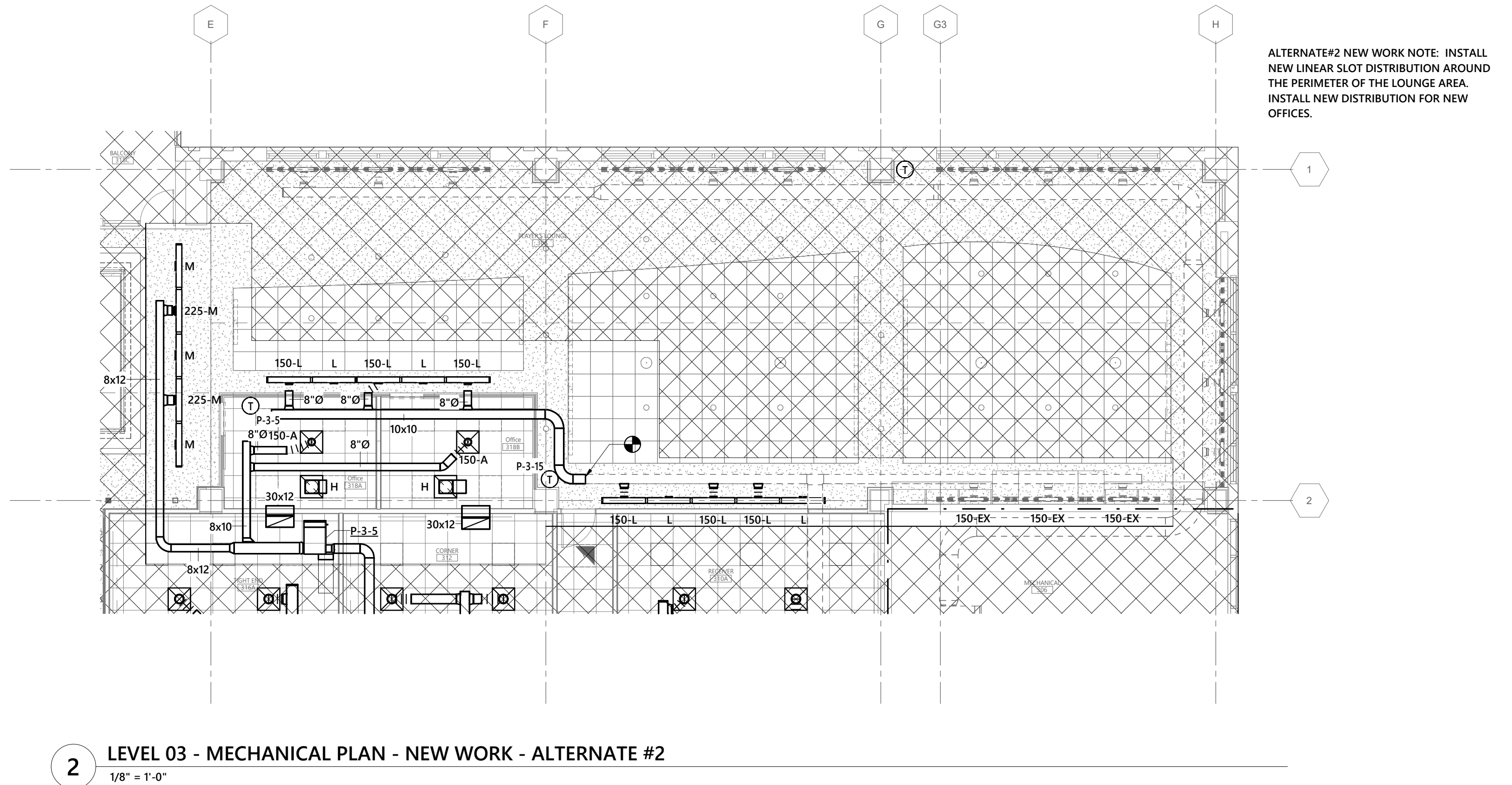
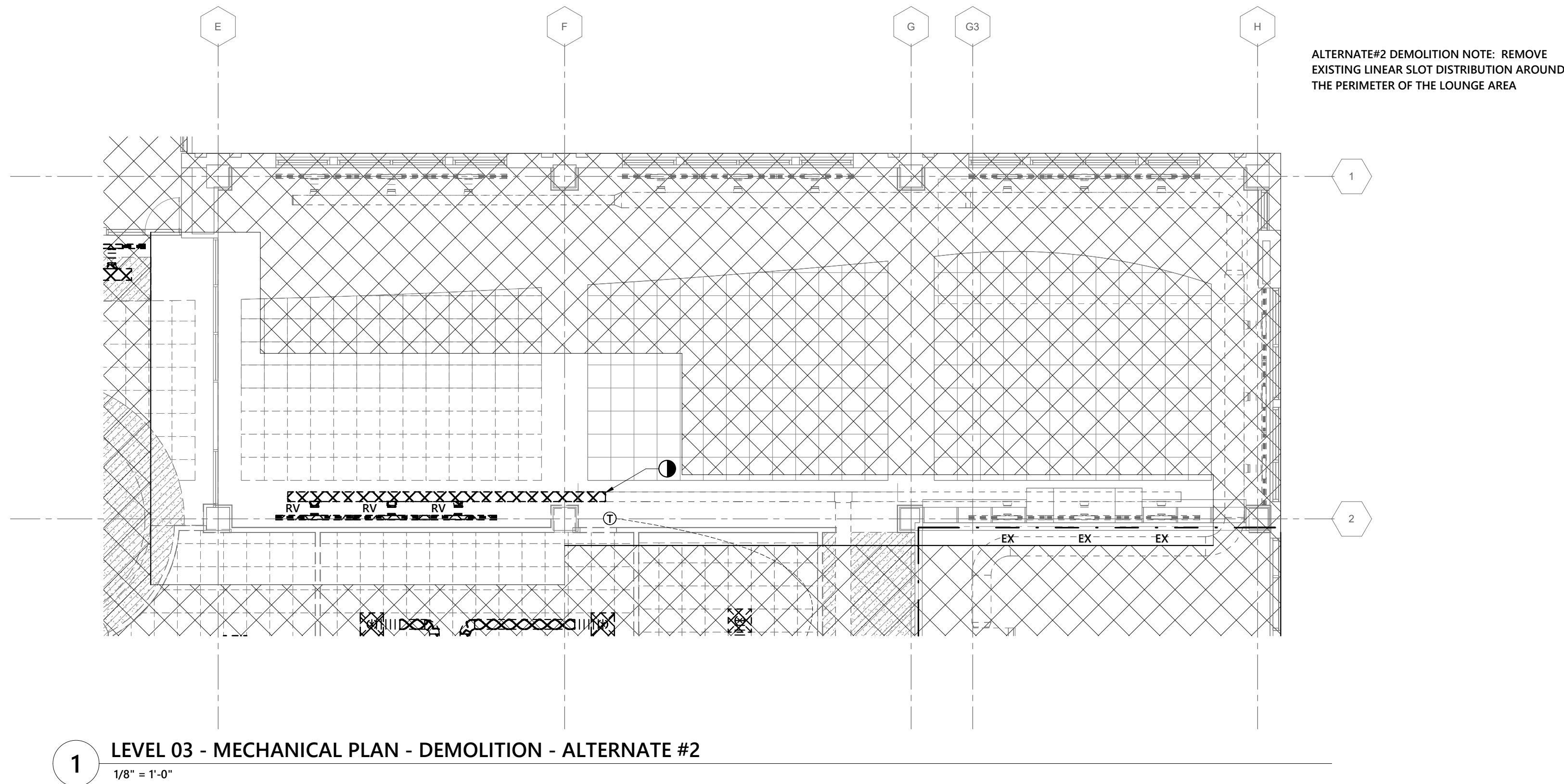
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**LEVEL 03 -
MECHANICAL
PLANS -
ALTERNATE #2**

sheet number

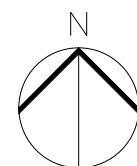
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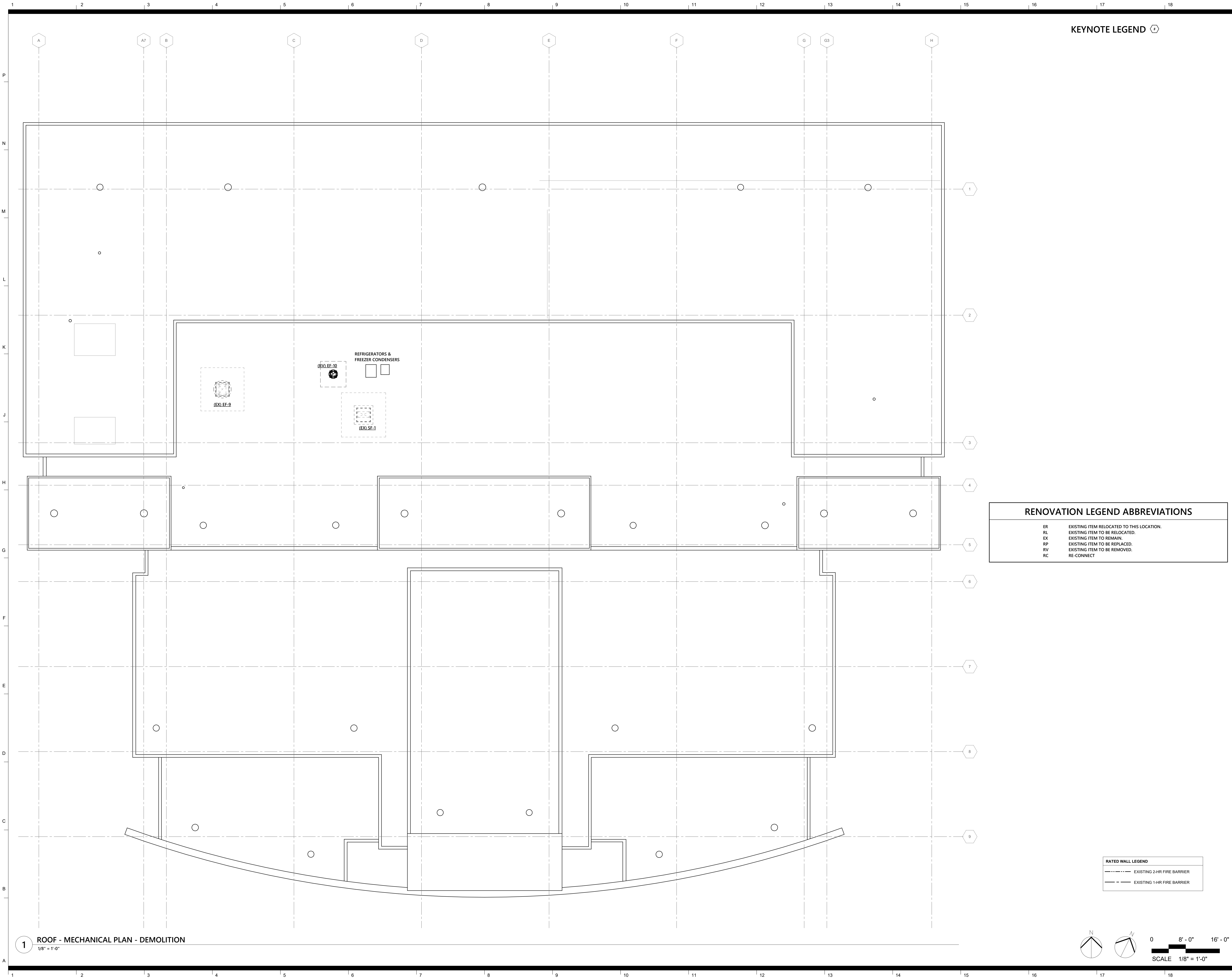
RENOVATION LEGEND ABBREVIATIONS

ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

RATED WALL LEGEND	
----	EXISTING 2-HR FIRE BARRIER
----	EXISTING 1-HR FIRE BARRIER



0 8' - 0" 16' - 0"
SCALE 1/8" = 1'-0"



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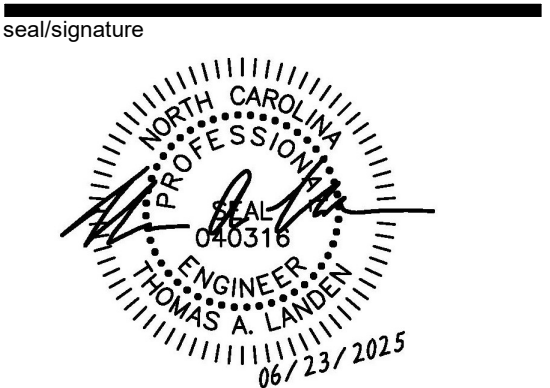
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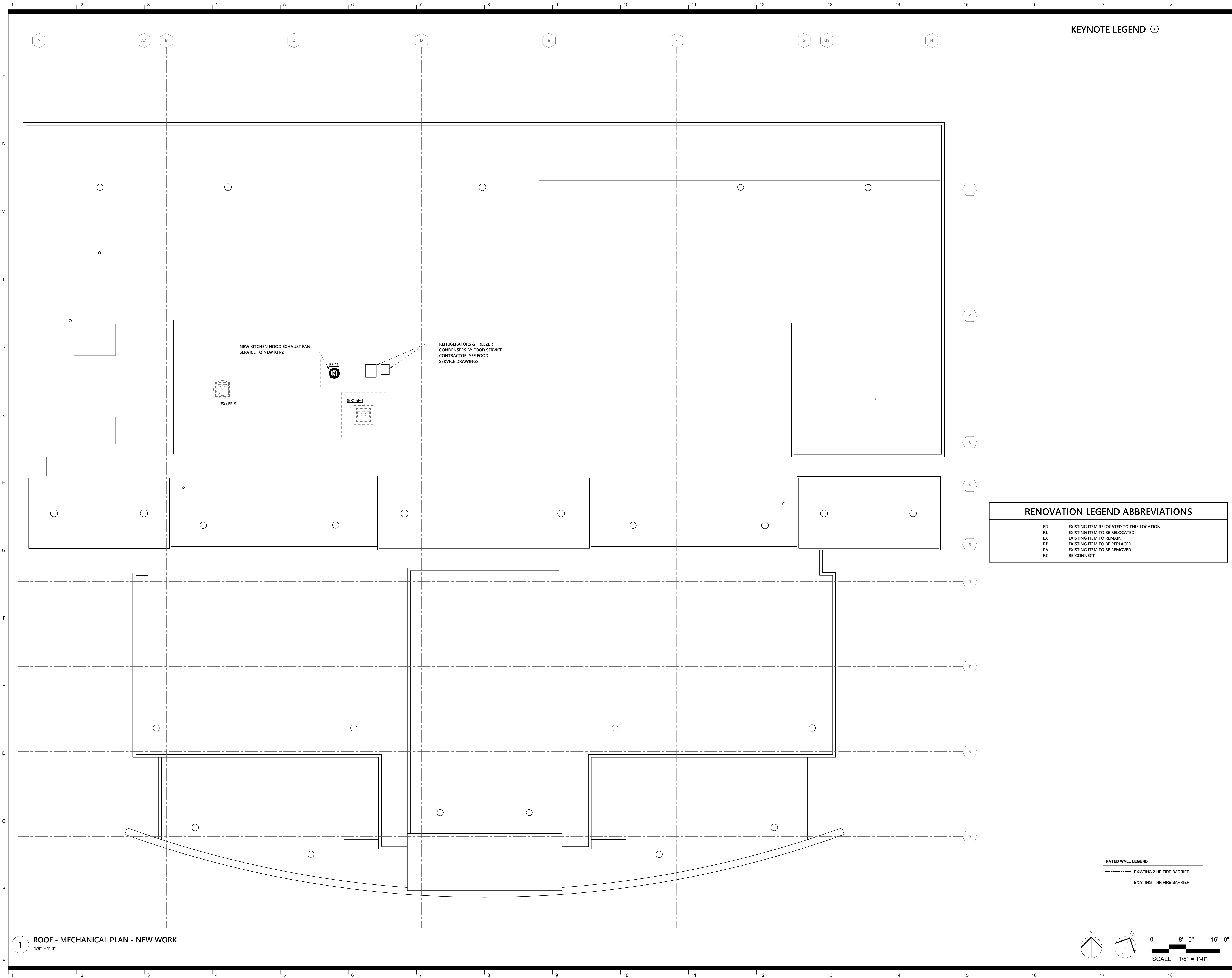
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**ROOF -
MECHANICAL PLAN
- DEMOLITION**

sheet number

M1.03



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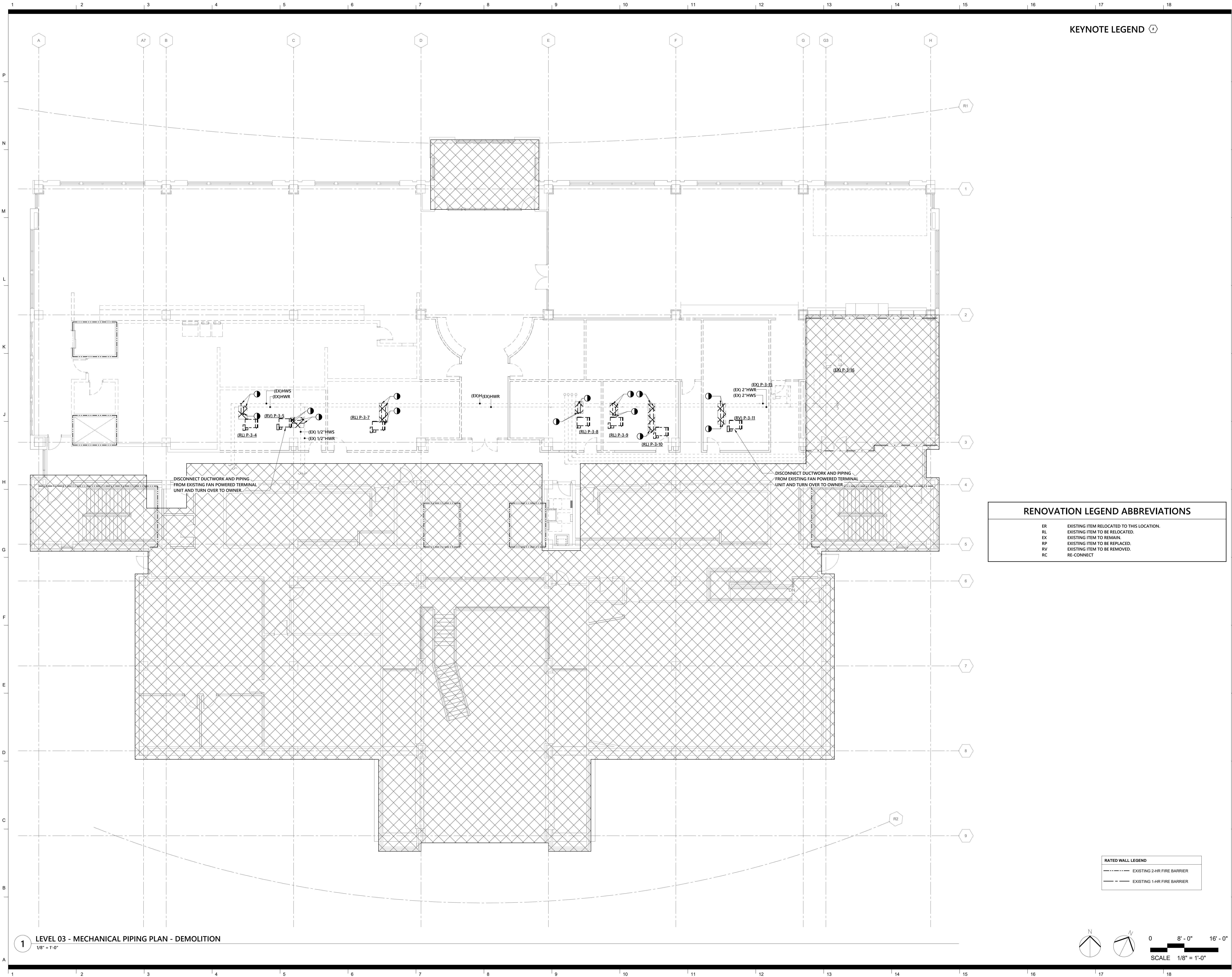
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**ROOF -
MECHANICAL PLAN
- NEW WORK**

sheet number

M1.04



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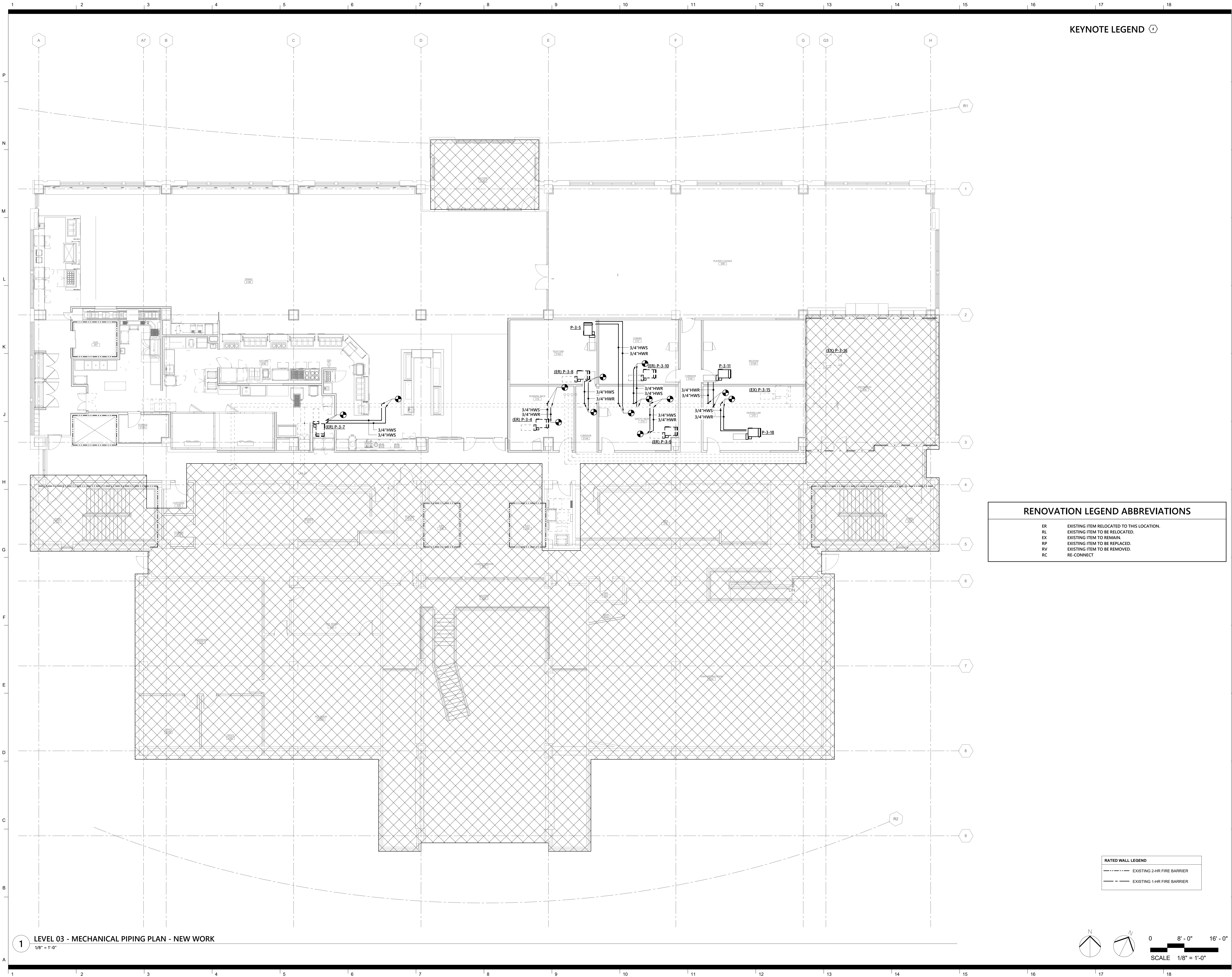
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**LEVEL 03 -
MECHANICAL
PIPING PLAN -
DEMOLITION**

sheet number

M2.01



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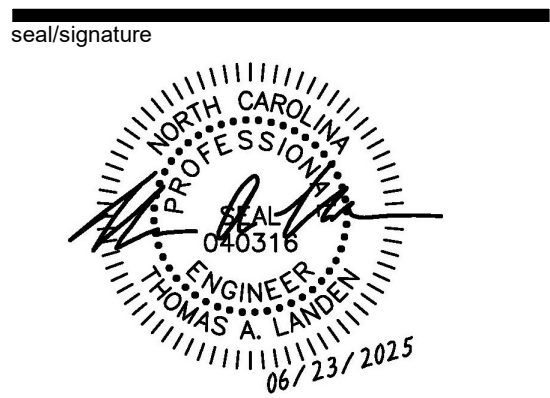
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project number 2308

**LEVEL 03 -
MECHANICAL
PIPING PLAN - NEW
WORK**

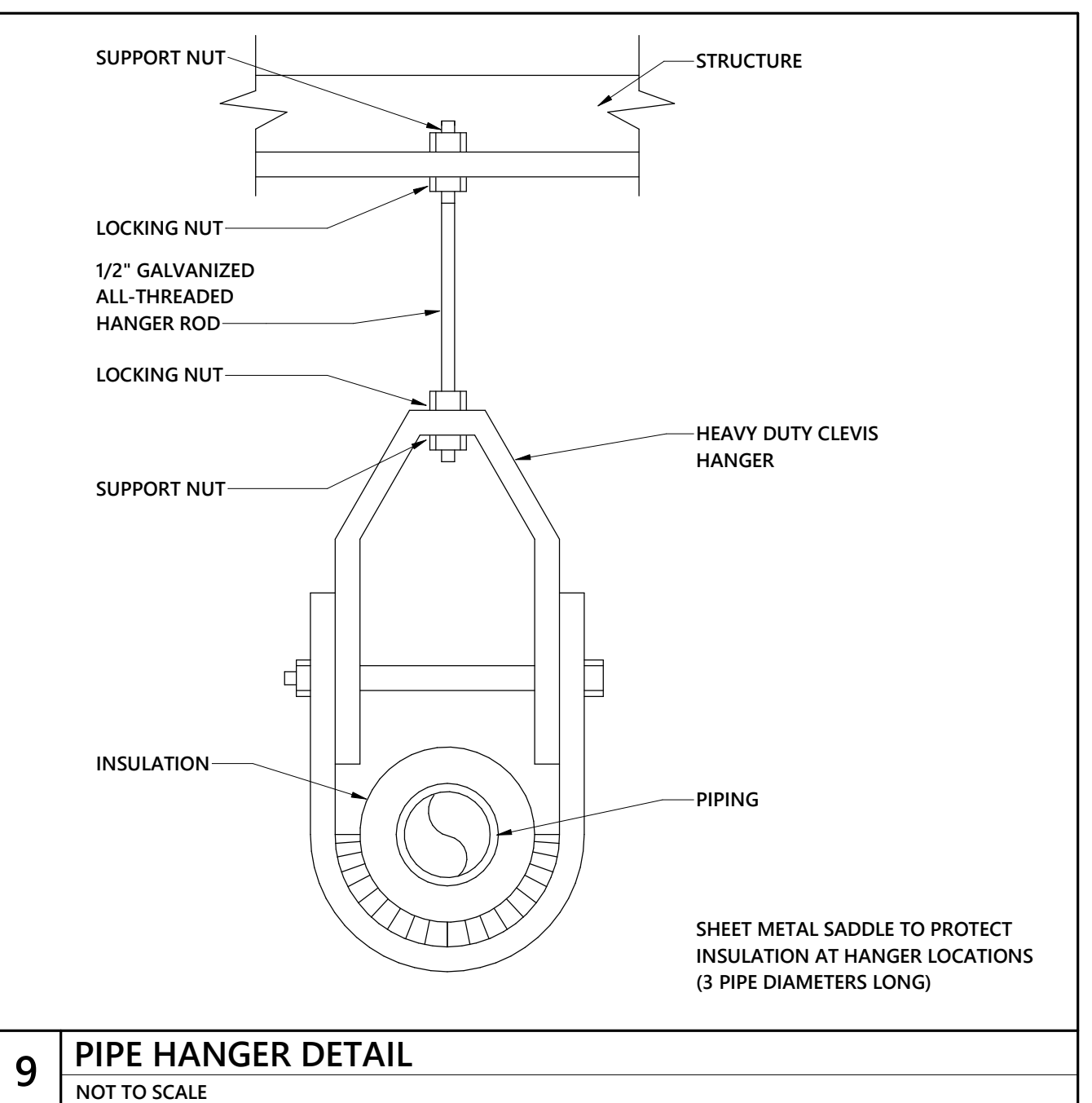
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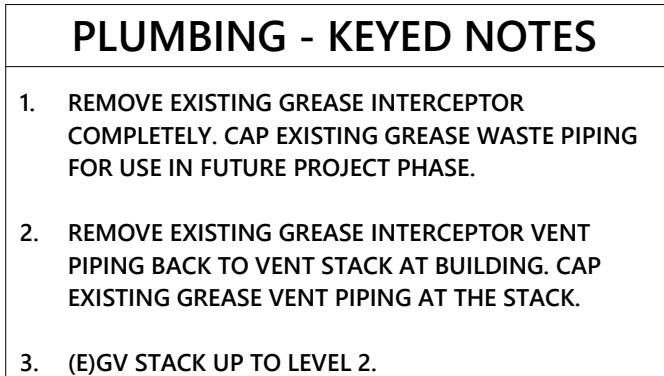
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OPTIMAR 24-0096R Sheet No. 10 of 11

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OPTIMA# 24-0096R Sheet No. 11 of 11





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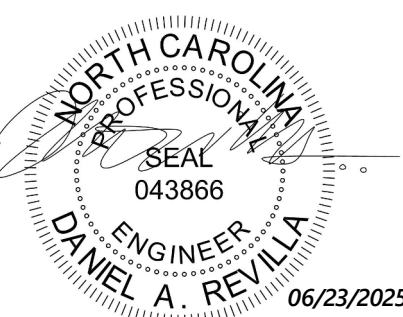
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al/signature



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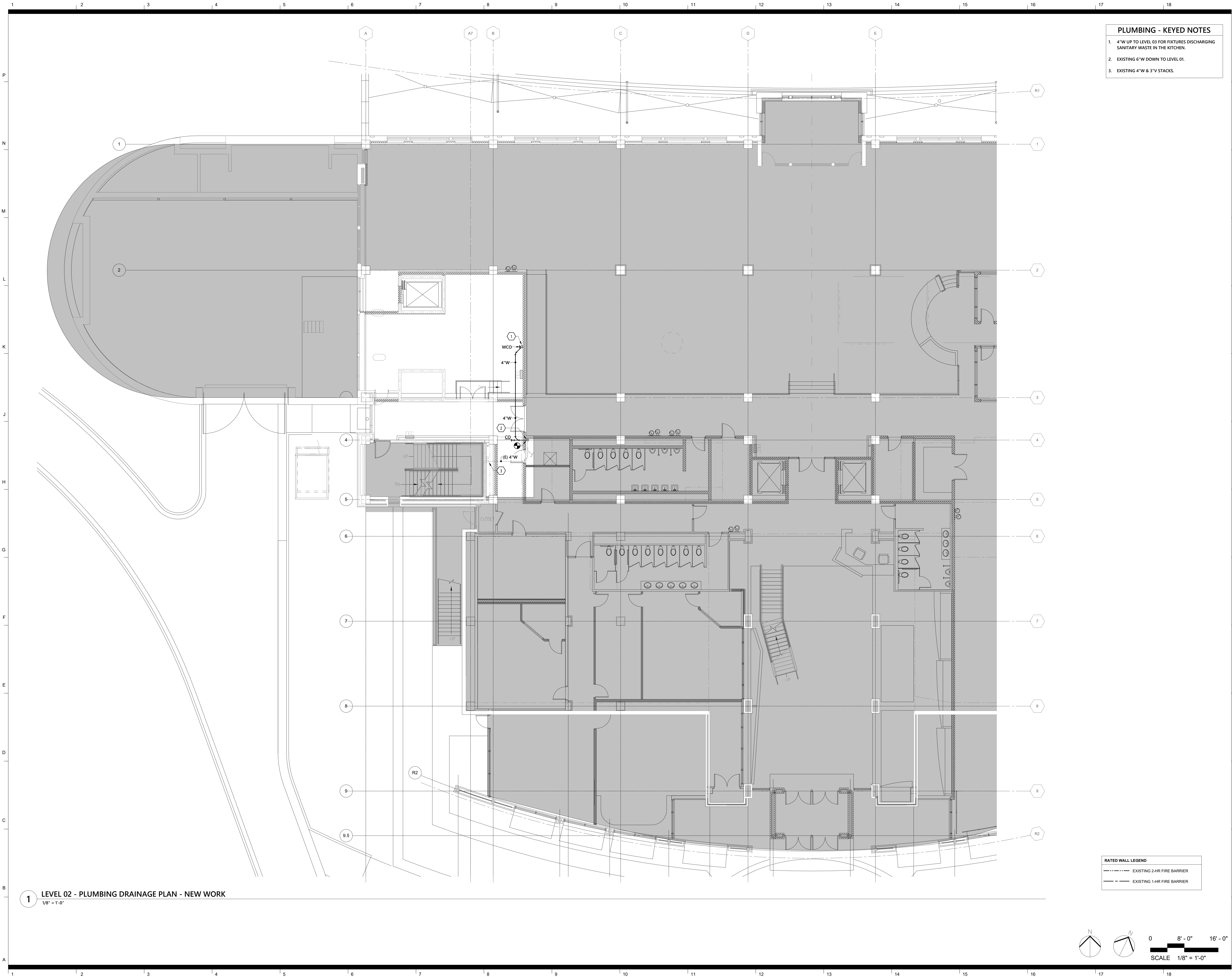
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**LEVEL 01 -
PLUMBING
DRAINAGE PLAN -
DEMOLITION**

Sheet number

P1.01





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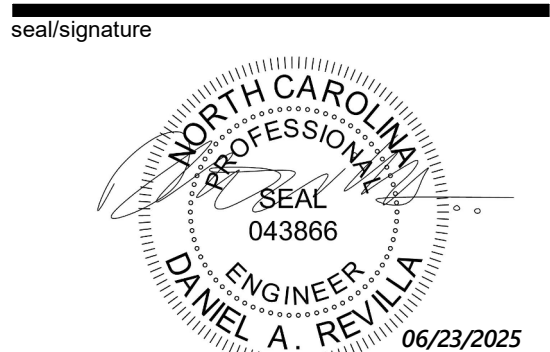
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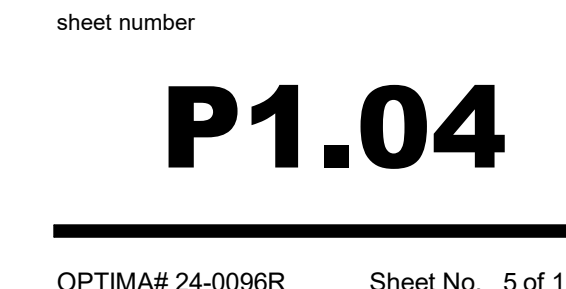
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**LEVEL 02 -
PLUMBING
DRAINAGE PLAN -
NEW WORK**

sheet number

P1.03



0 8' - 0" 16' - 0"

SCALE 1/8" = 1'-0"



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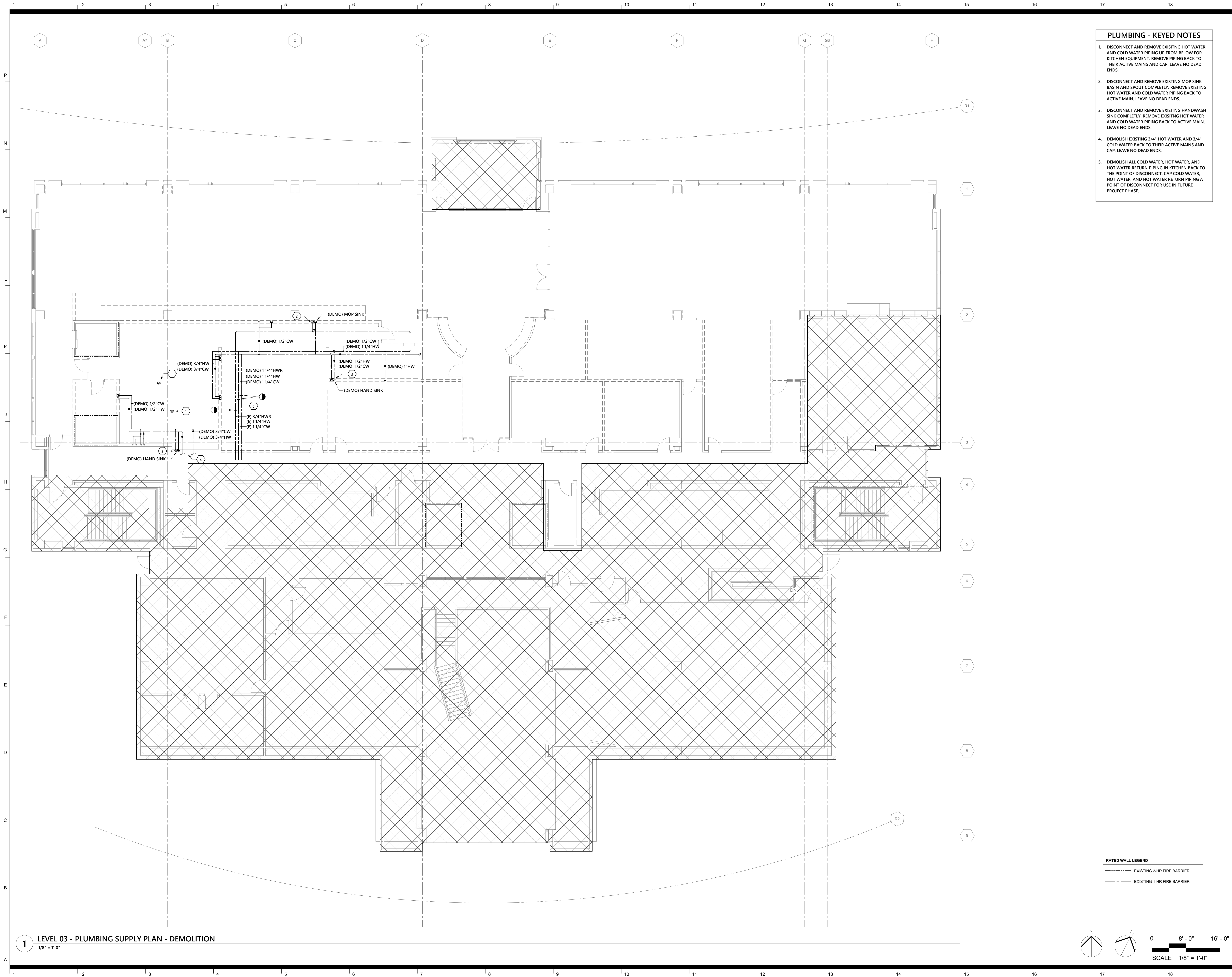
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**LEVEL 03 -
PLUMBING
DRAINAGE PLAN -
NEW WORK**

Heat number

P1.05



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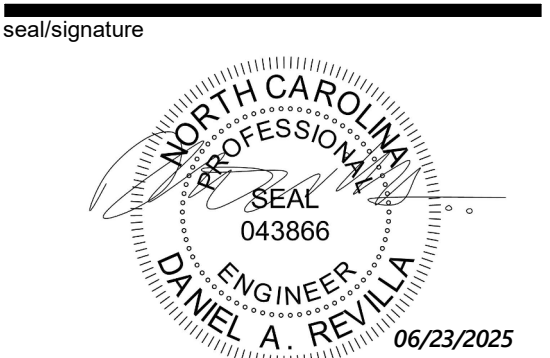
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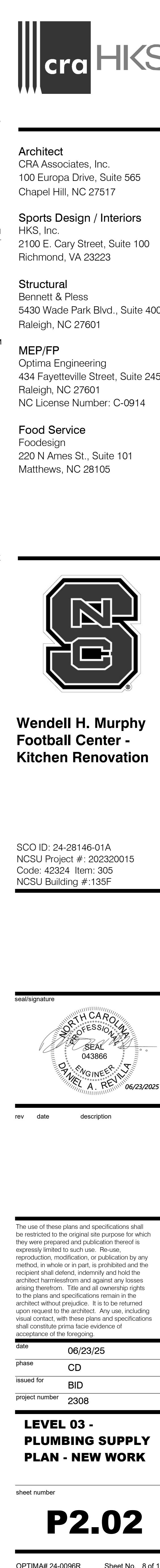
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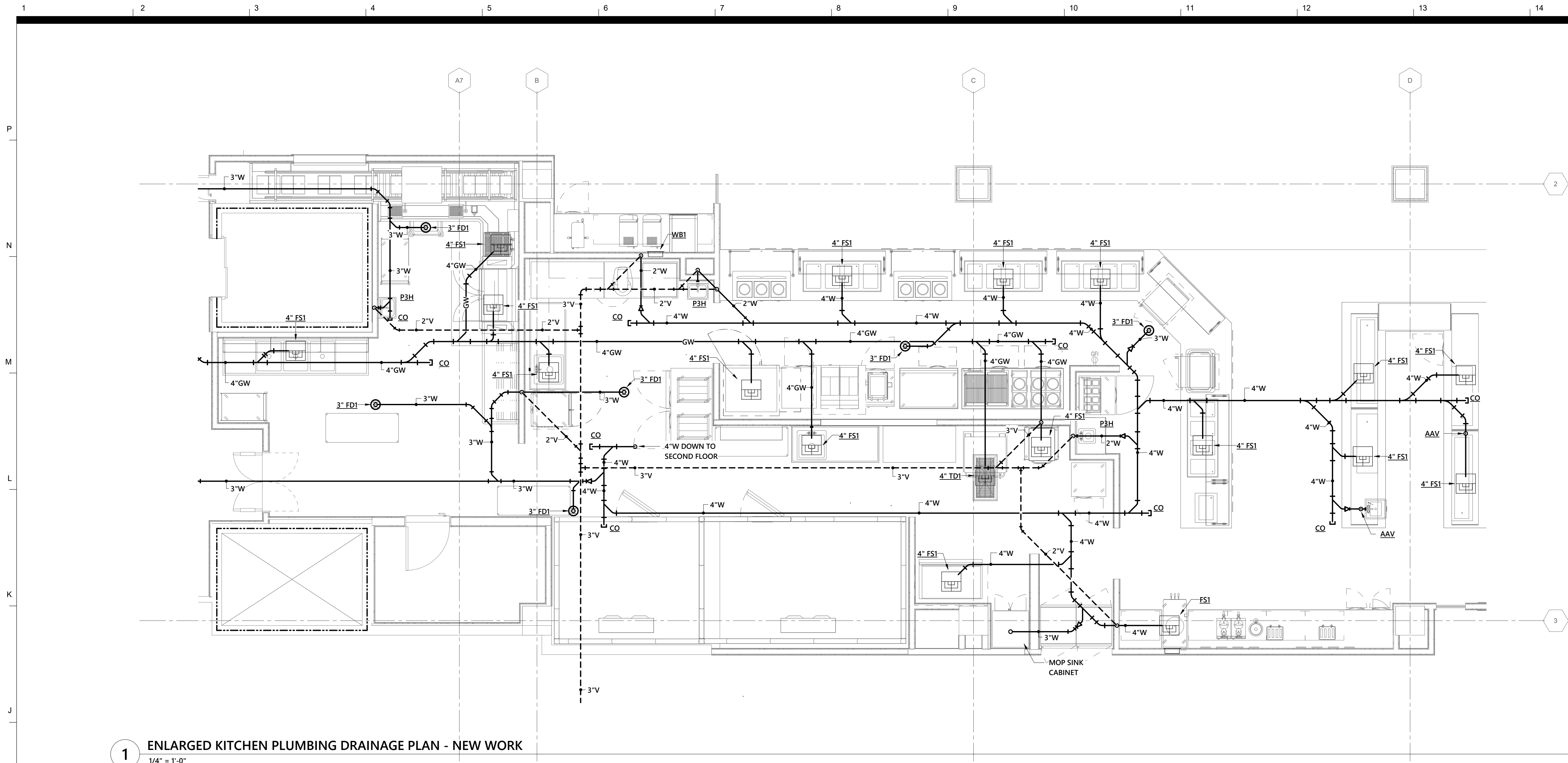
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**LEVEL 03 -
PLUMBING SUPPLY
PLAN - DEMOLITION**

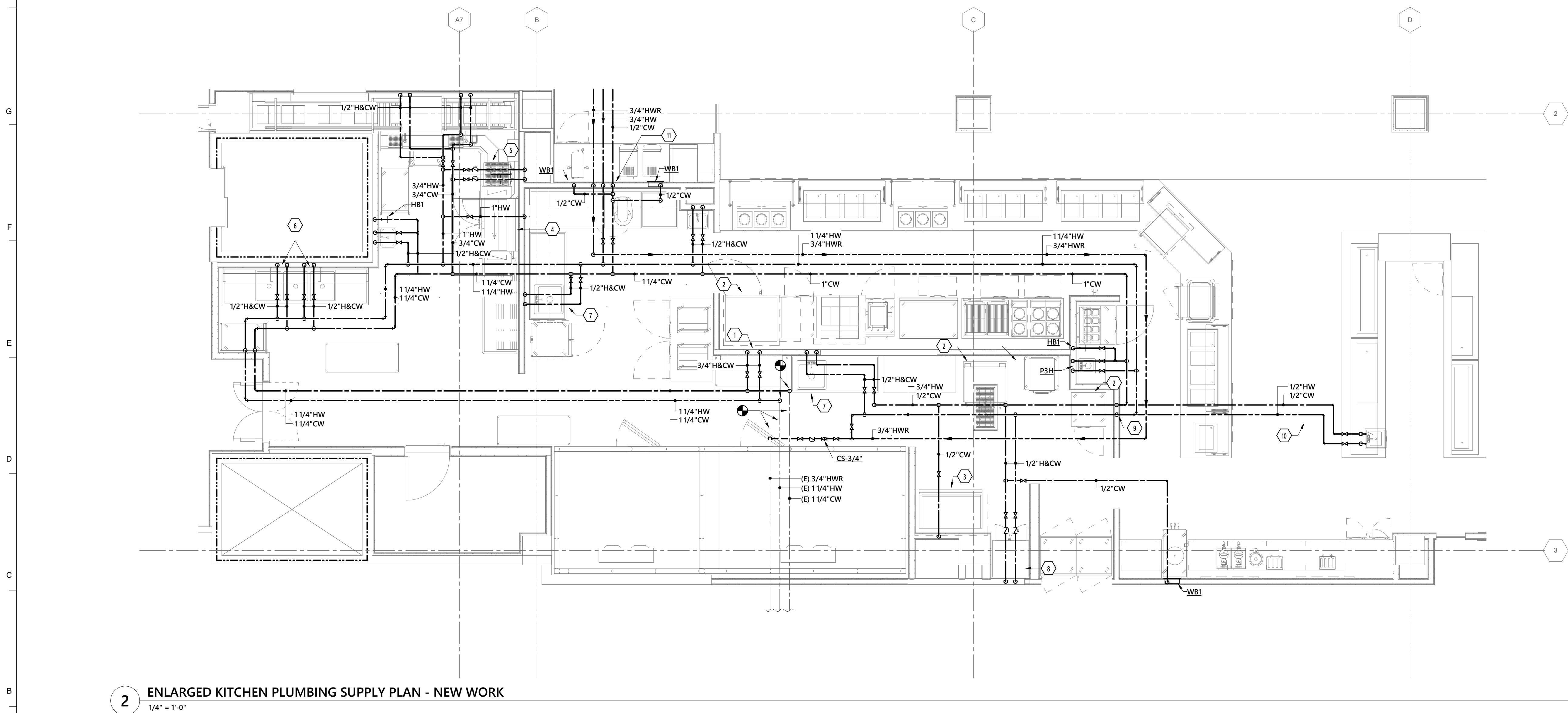
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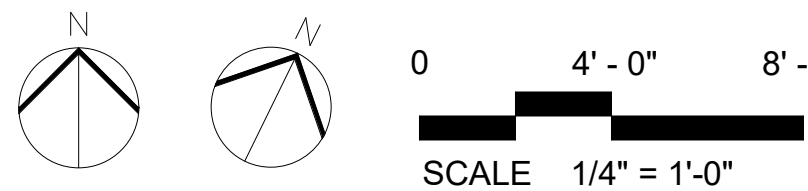


1 ENLARGED KITCHEN PLUMBING DRAINAGE PLAN - NEW WORK
1/4" = 1'-0"



2 ENLARGED KITCHEN PLUMBING SUPPLY PLAN - NEW WORK
1/4" = 1'-0"

RATED WALL LEGEND	
---	EXISTING 2-HR FIRE BARRIER
---	EXISTING 1-HR FIRE BARRIER



- KITCHEN SUPPLY KEY NOTES**

 - KITCHEN HOOD WATER SUPPLY:** PROVIDE SHUT-OFF VALVES AND 3/4" CW, 3/4" HW CONNECTIONS TO PREFABRICATED KITCHEN HOOD UTILITY DISTRIBUTION SYSTEM SERVING THE COOKING EQUIPMENT UNDER THE EXHAUST HOOD. SEE FOOD SERVICE EQUIPMENT PLANS FOR FINAL CONNECTION SIZES AND LOCATION.
 - KITCHEN EQUIPMENT (WATER):** PROVIDE WATER SUPPLIES FROM THE HOOD UTILITY DISTRIBUTION SYSTEM CONNECTION POINT TO EACH PIECE OF KITCHEN EQUIPMENT REQUIRING HW / CW SUPPLY. PROVIDE DOMESTIC WATER SHUT-OFF VALVES), LEAD FREE (ASSE 1024 LISTED) INLINE DOUBLE CHECK VALVE EQUAL TO WILKINS 700XL AND NSF CERTIFIED FLEXIBLE WATER CONNECTION KIT(S) EQUAL TO DORMONT SERIES 71-000, 72-000, OR 73-000 INCLUDING, LEAD-FREE STAINLESS STEEL QUICK DISCONNECTS), RETRACTABLE POLYURETHANE SWIRL HOSE AND FINAL CONNECTION TO EQUIPMENT. PROVIDE VALVES AND WATER CONNECTION KIT PIPE SIZE TO MATCH THE EQUIPMENT CONNECTION SIZE. SEE FOOD SERVICE DRAWINGS FOR EQUIPMENT CONNECTION SIZES AND QUANTITIES.
 - ICE MAKER & WATER FILTER:** PROVIDE 1/2" CW SHUT-OFF VALVE, LEAD FREE (ASSE 1024 LISTED) INLINE DOUBLE CHECK VALVE EQUAL TO WILKINS SERIES 700 AND NSF-CERTIFIED FLEXIBLE WATER CONNECTION KIT EQUAL TO DORMONT SERIES 71-000, 72-000, OR 73-000 INCLUDING, LEAD-FREE STAINLESS STEEL QUICK DISCONNECT(S), AND RETRACTABLE POLYURETHANE SWIRL HOSE. EXTEND DRAIN LINE FROM ICE MAKER TO SPILL OVER FLOOR SINK. SEE DETAIL 2/P501.
 - DISHWASHER AND BOOSTER HEATER:** PROVIDE 1" HW-140°F WITH SHUT-OFF VALVE, 20 PSI PRV, SHOCK ARRESTOR SA-Δ AND FINAL CONNECTIONS TO BOOSTER HEATER AND DISHWASHER. PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL INTER-CONNECTING PIPING. PROVIDE T&P RELIEF VALVE FOR BOOSTER HEATER PER MANUFACTURERS INSTRUCTIONS. PROVIDE 3/4" CW WITH SHUT-OFF CALCE, SHOCK ARRESTOR SA-Δ AND FINAL CONNECTION TO DISHWASHER DRAIN CONNECTION KIT.
 - PRE-RINSE SINK:** PROVIDE 1/2" HW-140°F, 1/2" CW WITH SHUT-OFF VALVES AND CHECK VALVES TO PRE-RINSE SINK. PROVIDE QUARTER TURN STOPS AT FINAL CONNECTION TO PRE-RINSE SINK FAUCET.
 - KITCHEN SINK FAUCETS:** PROVIDE 1/2" HW-140°F, 1/2" CW WITH SHUT-OFF VALVES AND CHECK VALVES. PROVIDE QUARTER TURN STOPS AT WALL AND FINAL CONNECTION TO SINK FAUCET.
 - PREP-SINKS:** 1/2" HW-140°F, 1/2" CW DOWN IN ADJACENT WALL TO BELOW FINISHED FLOOR. ROUTE PIPING BELOW FINISHED FLOOR OVER TO PREP-SINKS. STUB UP FROM BELOW FINISHED FLOOR TO SUPPLY BOTH PREP-SINKS. PROVIDE QUARTER TURN STOPS AT STUB UP LOCATION AND MAKE FINAL CONNECTION TO BOTH PREP-SINK FAUCETS.
 - MOP SINK CABINET:** PROVIDE 1/2" HW-140°F, 1/2" CW WITH SHUT-OFF VALVES AND CHECK VALVES TO MOP SINK CABINET.
 - 1/2" DOMESTIC COLD WATER AND 1/2" HOT WATER DOWN IN WALL TO BE ROUTED IN SECOND FLOOR HEADSPACE AND OVER TO ISLAND SINK.
 - DOMESTIC COLD WATER AND HOT WATER ROUTED IN THE HEADSPACE OF THE SECOND LEVEL AND OVER TO ISLAND SINK.
 - DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN DOWN IN THE WALL TO THE HEADSPACE OF THE SECOND FLOOR.

NOTE:
PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTIONS OF WATER, WASTE, INDIRECT DRAIN PIPING, AND FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER. SEE FOOD SERVICE DRAWINGS FOR DIMENSIONAL DATA AND ADDITIONAL PLUMBING REQUIREMENTS.



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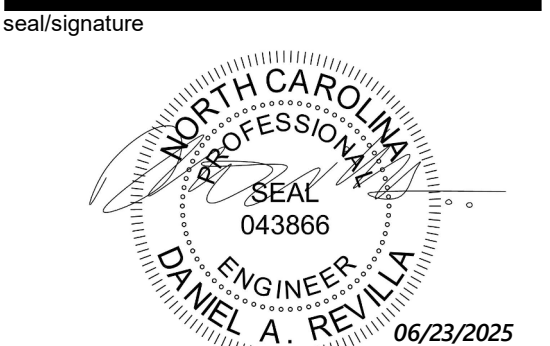
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NC License Number: C-0914

Food Service
Foodesign
220 N Ames St., Suite 101
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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 24-28146-01A
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F



rev	date	description
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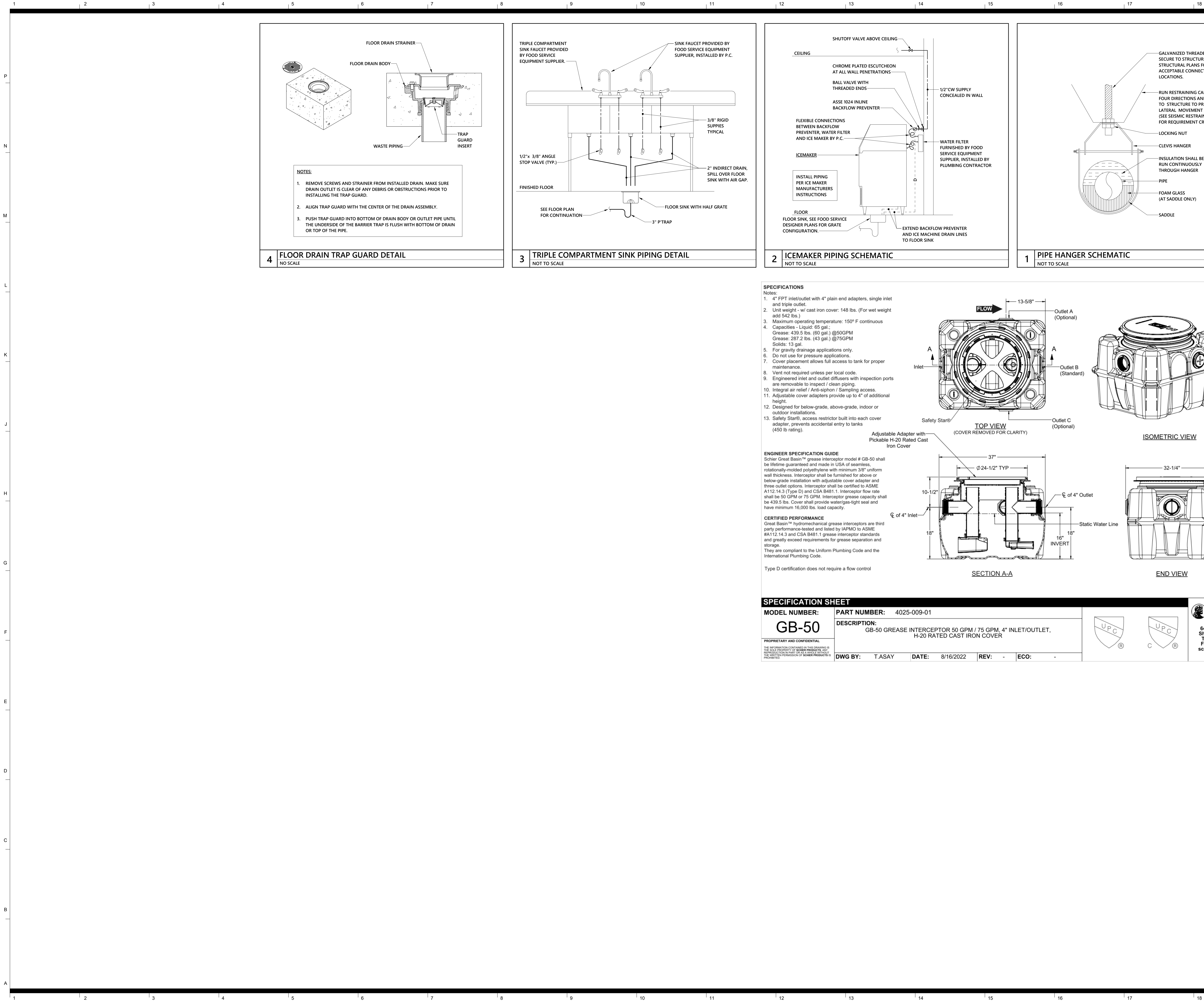
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date	06/23/25
phase	CD
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project number	2308

**ENLARGED
KITCHEN
PLUMBING PLANS -
NEW WORK**

sheet number

P4.01



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SCO ID: 24-28146-01A
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seal/signature



rev date description

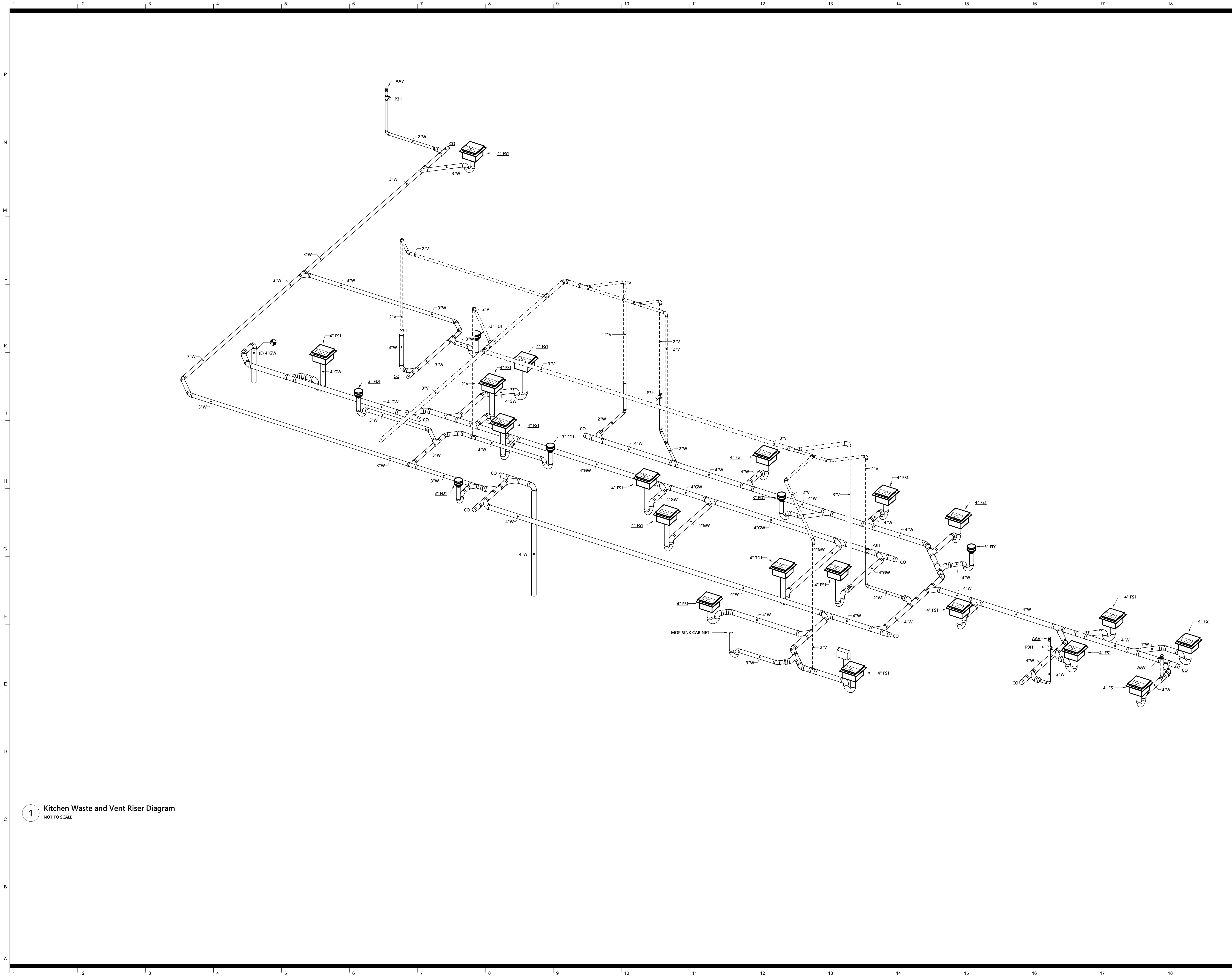
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PLUMBING DETAILS

sheet number

P5.01



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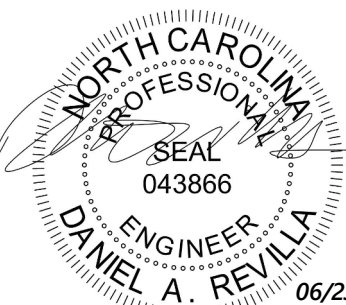
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seal/signature



rev date description

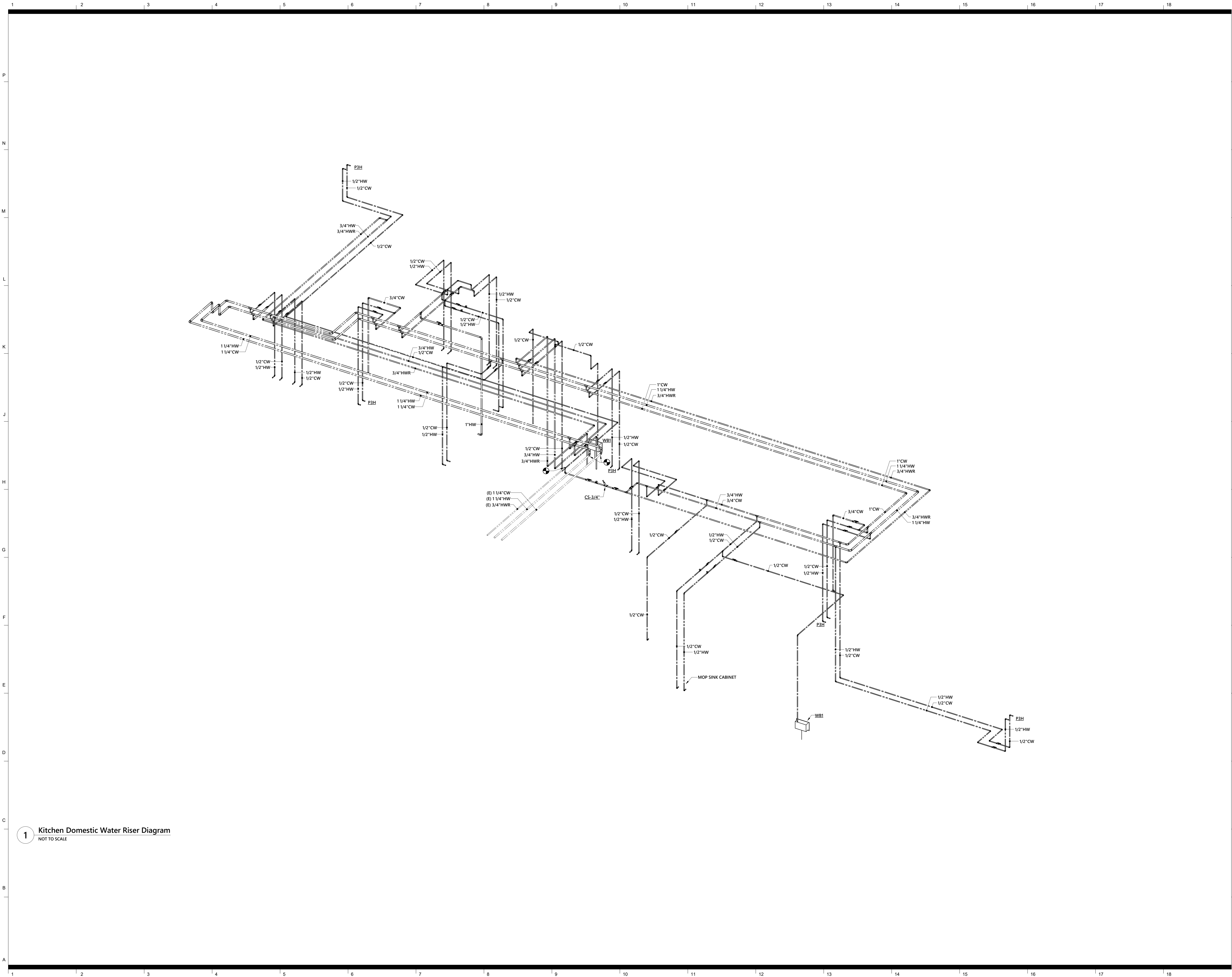
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**WASTE & VENT
RISER DIAGRAMS**

sheet number

P5.02



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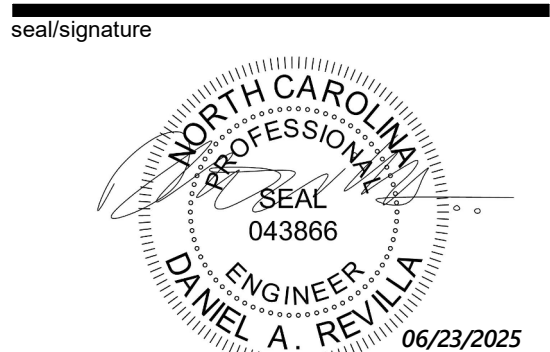
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**DOMESTIC RISER
DIAGRAM**

sheet number

P5.03

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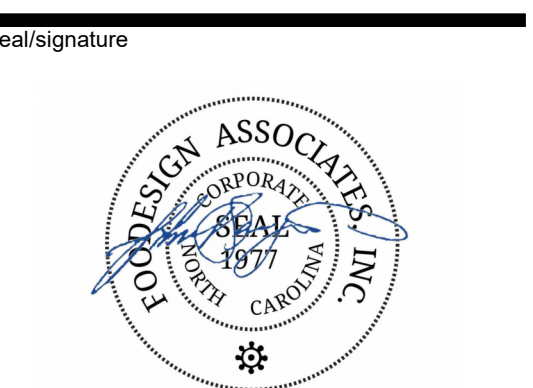
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Football Center -
Kitchen Renovation**

SCO ID: 23-27625-01
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F



rev	date	description
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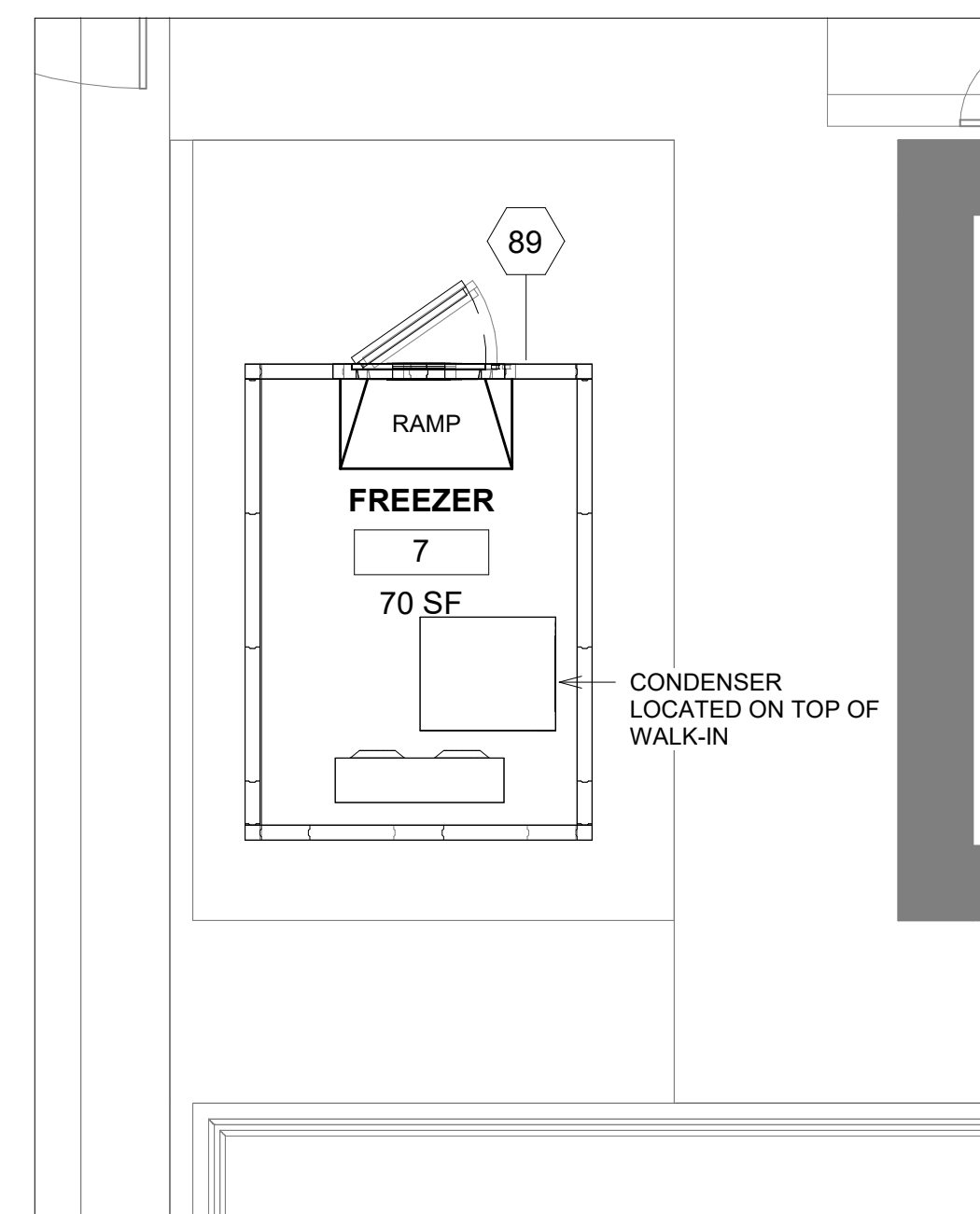
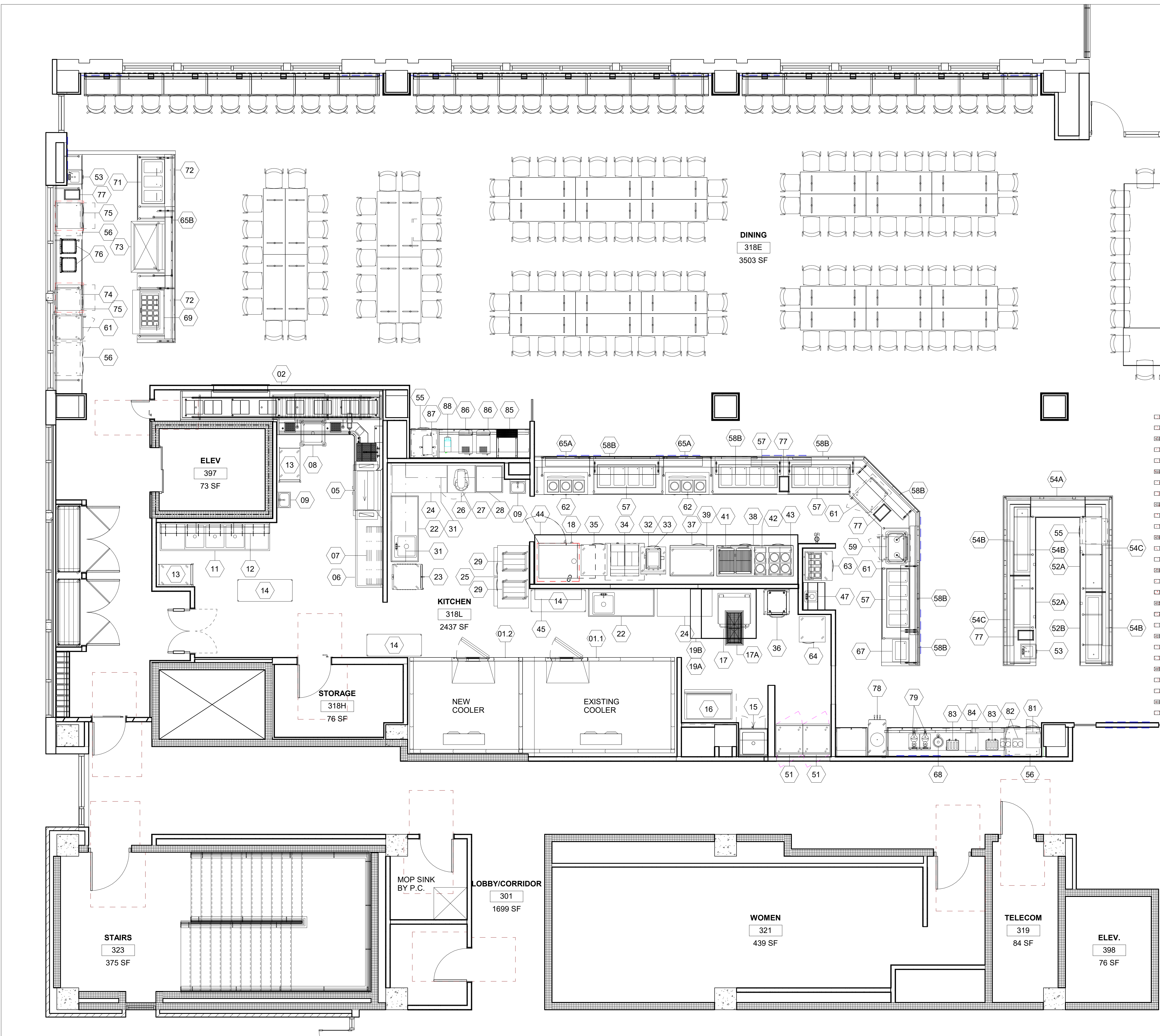
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phase	BID SET
issued for	CONSTRUCTION
project number	2308

**FOODSERVICE
EQUIPMENT PLAN**

sheet number

FS.01



1 FOOD SERVICE EQUIPMENT PLAN
1/4" = 1'-0"

2 LOADING DOCK FREEZER EQUIPMENT PLAN ALT 3
1/4" = 1'-0"



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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 23-27625-01
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F

seal/signature



rev date description

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date 06/23/2025
phase BID SET
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project number 2308

**FOODSERVICE
EQUIPMENT
SCHEDULE**

sheet number

FS.02

FOODSERVICE EQUIPMENT SCHEDULE

FOODSERVICE EQUIPMENT SCHEDULE																						
BASE BID	ALT 4	QTY	ITEM	DESCRIPTION	MANUFACTURER	MODEL	ITEM	ELECTRICAL							PLUMBING							REMARKS
								ELECTRICAL A.F.F.	KW	HP	AMPS	VOLTS	PHASE	NEMA	HW SIZE	HW/A.F.F.	CW SIZE	CW/A.F.F.	IW	DRAIN TYPE	DW	
CFCI	CFCI	1	01.1	COLD STORAGE ASSEMBLY	EXISTING	RESET	01.1															NO WORK REQUIRED
CFCI	CFCI	1	01.2	COLD STORAGE ASSEMBLY	EXISTING	RESET	01.2															F.S.E.C. TO VERIFY EXISTING UTILITIES, NEW EVAP. COIL AND CONDENSER, SEE DETAILS ON SHEET FS.06
CFCI	CFCI	1	02	CONVEYOR	BI-LINE	ACCUMULATOR CUSTOM	02	50"			15.0	208	1	DIRECT	(2) 1/2"	14"/STUB	(2) 1/2"	14"/STUB		F.S.		L-SHAPED, PRE-RINSE SPRAY, UNDERMOUNT HOSE REEL, LEVER DRAIN, SCRAP BASKET
-	-	1	3-4	NOT USED	-	-	3-4															
CFCI	CFCI	1	05	DISHWASHER, CONVEYOR TYPE	HOBART	CL44-ADV	05	64"	B:18.0		51.1	(2) 208	3		1/2"	12"	1/2"	12"	2"			B:BOOSTER, DRAIN WATER TEMPERING KIT, VENT COWLS, TALL CHAMBER
OFOI	CFCI	1	06	CLEAN DISHTABLE	TITAN STAINLESS	7CDT-R-14	06															TABLE LIMIT SWITCH
OFOI	OFCI	1	07	DISHTABLE SORTING SHELF	JOHN BOOS	BHS1863-TS	07															MOUNT SHELF 5'-4" A.F.F.
OFOI	CFCI	1	08	MOBILE SOAK SINK	JOHN BOOS	PB-SS-208	08											4"	F.S.			CASTERS
OFCI	CFCI	2	09	HAND SINK	ADVANCE TABCO	7-PS-51	09	24"			5.0	120	1	BATTERY	1/2"	14"	1/2"	14"			2"	SIDE SPLASH
-	-	1	10	NOT USED	-	-	10															
OFOI	OFCI	1	11	THREE COMPARTMENT SINK	EXISTING	RESET	11									2@1/2"	14"	2@1/2"	14"	2"	F.S.	F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFCI	1	12	POT RACK	EXISTING	RESET	12															MOUNT 5'-4"
OFOI	OFOI	2	13	CART, UTILITY/BUSSING	LAKESIDE	744	13															CASTERS
OFOI	OFOI	3	14	WIRE SHELVING UNIT	METRO	A566K3	14															63" HIGH POSTS, 4-TIER, EPOXY
OFOI	CFCI	1	15	MOP SINK CABINET	JOHN BOOS	PBJC-303084	15								1/2"	14"	1/2"	14"			4"	SERVICE FAUCET WITH VACUUM BREAKER & HOSE
OFOI	OFCI	1	16	ICE MAKER, CUBE STYLE	EXISTING	RESET	16	68"			12.4	208	1	DIRECT			1/2"	68"	1"	F.S.		WATER FILTER, BACKFLOW PREVENTION DEVICE, ICE BIN
OFOI	OFCI	1	17	ELECTRIC TILTING SKILLET	EXISTING	RESET	17	24"			33.3	208	3	DIRECT	1/2"	14"	1/2"	14"		F.T.		FILL FAUCET
CFCI	CFCI	1	17A	FLOOR TROUGH	IMC TEDDY	ASFT-1836-PFG	17A														4"	
OFOI	OFCI	1	18	COMBI OVEN, ELECTRIC DBL. STACKED	EXISTING	RESET	18	24"/50"			124.0	208	3	(2) DIRECT			2@3/4"	48"		F.S.	2"	F.S.E.C. TO VERIFY EXISTING UTILITIES
CFCI	CFCI	1	19A	EXHAUST HOOD	CAPTIVEAIRE	ND2	19A	ABV.			20.0	120	1	(2) DIRECT								* SEE VENTILATION CONNECTION SCHEDULE
CFCI	CFCI	1	19B	FIRE SUPPRESSION SYSTEM	ANSUL	R-102	19B															WET CHEMICAL
-	-	1	20-21	NOT USED	-	-	20-21															
OFOI	OFCI	2	22	WORKTABLE W/SINK	EXISTING	RESET	22								1/2"	14"	1/2"	14"		F.S.		F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFCI	1	23	HEATED HOLDING CABINET	EXISTING	RESET	23	50"			19.1	120	1	5-20P					1"			F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFOI	2	24	WORKTABLE	EXISTING	RESET	24															F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFCI	1	25	ROLL-IN REFRIGERATOR	CONTINENTAL REFRIGERATOR	D2RINSA-E	25	50"		0.5	10.3	120	1	5-15P								
OFOI	OFOI	1	26	MOBILE MIXER STAND	EXISTING	RESET	26															F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFOI	1	27	20 QT MIXER	EXISTING	RESET	27	50"		1/2	8.0	120	1	5-15P								F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFOI	1	28	MOBILE EQUIPMENT STAND	EXISTING	RESET	28															F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFOI	2	29	BUN PAN RACK	EXISTING	RESET	29															F.S.E.C. TO VERIFY EXISTING UTILITIES
-	-	1	30	NOT USED	-	-	30															
OFOI	OFCI	2	31	WALL SHELF	TITAN STAINLESS	9WMS-16	31															MOUNT @ 5'-4" AFF
OFOI	OFCI	1	32	WORKTOP FREEZER	CONTINENTAL REFRIGERATOR	SWF27NBS	32	24"		1/4	4.0	120	1	5-15P								CASTERS, DOOR HINGED ON RIGHT
OFOI	CFCI	1	33	FRY HOLDING STATIONS	HATCO CORPORATION	GRFHS-PT16	33	50"			9.1	120	1	5-15P								TOGGLE SWITCH
OFOI	OFCI	1	34	ELECTRIC FRYER, BATTERY	EXISTING	RESET	34	(2) 24"			(2) 47.0	(2) 208	3	(2) DIRECT								F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFCI	1	35	REFRIGERATOR, REACH-IN	CONTINENTAL REFRIGERATOR	1RENSAHD	35	24"		0.25	5.2	120	1	5-15P								CASTERS, DOOR HINGE ON RIGHT
OFOI	CFCI	2	36	RAPID COOK OVEN	TURBOCHEF	BULLET	36	50"			30.0	208	1	6-30P								STACKING KIT, EQUIPMENT STAND
OFOI	OFCI	1	37	EQUIPMENT STAND, FREEZER BASE	CONTINENTAL REFRIGERATOR	DL48GF	37	24"		1/4	5.7	120	1	5-15P								CASTERS, CONDENSING UNIT ON LEFT
OFOI	OFCI	1	38	EQUIPMENT STAND, REFRIGERATED BASE	CONTINENTAL REFRIGERATOR	D84GN	38	24"		1/4	5.9	120	1	5-15P								CASTERS, CONDENSING UNIT ON LEFT
OFOI	OFCI	1	39	GRIDDLE, ELECTRIC, COUNTERTOP	EXISTING	RESET	39	50"			67.4	208	3	DIRECT								F.S.E.C. TO VERIFY EXISTING UTILITIES
-	-	1	40	NOT USED	-	-	40															
OFOI	OFCI	1	41	COUNTERTOP CHAR BROILER	WELLS BLOOMFIELD	B-50	41	50"			30.0	208	3	DIRECT								
OFOI	OFCI	1	42	INDUCTION RANGE COUNTERTOP	VOLLRATH	912HIDC	42	50"			24.0	208	1	6-30P								
OFOI	OFCI	1	43	INDUCTION RANGE COUNTERTOP	VOLLRATH	924HIDC	43	(2) 50"			(2) 24.0	(2) 208	1	(2) 6-30P								
CFCI	CFCI	1	44	EXHAUST HOOD	EXISTING	TO REMAIN	44	(2) ABV.			(2) 20.0	(2) 120	1	(2) DIRECT								F.S.E.C. TO VERIFY EXISTING UTILITIES

ABBREVIATIONS

ABV.	ABOVE
A.F.F.	ABOVE FINISHED FLOOR
CTR.	COUNTER MOUNTED
C.W.	COLD WATER
E.C.	ELECTRICAL CONTRACTOR
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
F.S.E.C.	FOOD SERVICE EQUIPMENT CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.W.	HOT WATER
I.W.	INDIRECT WASTE
M.C.	MECHANICAL CONTRACTOR
N.I.K.C.	NOT IN KITCHEN CONTRACT
S/S	STAINLESS STEEL
ST.	STUB
U.C.	UTILITY CHASE
W.	WASTE

110° F. HOT WATER REQUIREMENTS

GPH

MOP SINK	-	5
HAND SINK	5 @ 5	25
PREP. SINK	2 @ 20	40
	TOTAL	70

140° F. HOT WATER REQUIREMENTS

GPH

POT SINK	3 @ 30	90
PRE-RINSE	1 @ 35	35
FILL FAUCET	1 @ 10	10
DISH MACHINE	FROM BOOSTER @ 20 PSI	100
	TOTAL	235

REFRIGERATION CONNECTION SCHEDULE

CONN	EQUIPMENT	LOAD	V/PH	REMARKS
01A	LIGHTS, COOLER	200 W	120/1	1 EXTRA LIGHT
01B	EVAP. COIL, COOLER			-
01C	COND. UNIT, COOLER			-
89A	LIGHTS & DOOR HEAT	500 W	120/1	1 EXTRA LIGHT
89B	HEAT TAPE, FREEZER	15.0 A	120/1	DRAINLINE HEAT TAPE
89C	EVAP. COIL, FREEZER	8.2 A	208/1	FEED DEFROST THRU TIMER @
89D	COND. UNIT, FREEZER	21.6 MCA	208/1	COND. UNIT

ELECTRICAL LOADS ARE BASED ON MANUFACTURER'S INFORMATION. MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION TO BE DETERMINED BY CODE REQUIREMENTS AND/OR MANUFACTURER'S DIRECTIONS.

VENTILATION CONNECTION SCHEDULE

ITEM	CONNECTION	SIZE	CFM	S.P.	QTY	TOTAL
05A	EXHAUST	4" X 16"	200	0.25"	1	200
05B	EXHAUST	4" X 16"	400	0.25"	1	400
19A.1	EXHAUST	10" DIA.	1000	-0.545"	1	800
19A.2	SUPPLY	12" x 28"	800	0.191"	1	0.191"

EXISTING EQUIPMENT:

TRADES TO DISCONNECT KITCHEN EQUIPMENT IN KITCHEN.

FOOD SERVICE EQUIPMENT CONTRACTOR TO MOVE & SET IN PLACE THOSE ITEMS INDICATED AS RESET.

OWNER TO REMOVE ALL EXISTING EQUIPMENT FROM SITE.

STATUS:

OFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
OFCI - CONTRACTOR FURNISHED OWNER INSTALLED
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED

KITCHEN EQUIPMENT SCHEDULE FOR EQUIPMENT COST TO BE SUBMITTED AS ALTERNATE "AA #4"

FOODSERVICE EQUIPMENT SCHEDULE																							
BASE BID	ALT 4	QTY	ITEM	DESCRIPTION	MANUFACTURER	MODEL	ITEM	ELECTRICAL							PLUMBING								REMARKS
								ELECTRICAL A.F.F.	KW	HP	AMPS	VOLTS	PHASE	NEMA	HW SIZE	HW/A.F.F.	CW SIZE	CW/A.F.F.	IW	DRAIN TYPE	DW	DW A.F.F.	
CFCI	CFCI	1	45	FIRE SUPPRESSION SYSTEM	EXISTING	RESET	45																F.S.E.C. TO VERIFY EXISTING UTILITIES
-	-	1	46-50	NOT USED	-	-	46-50																
OFOI	CFCI	1	47	DROP-IN HAND SINK	ADVANCE TABCO	DI-1-25	47								1/2"	14"	1/2"	14"			2"	0' - 10"	FAUCET
OFOI	OFCI	2	51	PASS-THRU REFRIGERATOR	EVEREST	ESPT-1G-1S	51	90"			4.0	120	1	5-15P									DOOR HINGE ON RIGHT, CASTERS
OFOI	CFCI	2	52A	DROP-IN, COLD FOOD WELL UNIT	DUKE	ADI-2MDSL-N7	52A	CTR.		1/4	4.3	120	1	5-15P					1"	F.S.			
OFOI	CFCI	2	52B	DROP-IN, COLD FOOD WELL UNIT	DUKE	ADI-3MDSL-N7	52B	CTR.		1/4	4.3	120	1	5-15P					1"	F.S.			
OFOI	CFCI	2	53	DROP-IN HAND SINK	EAGLE GROUP	HWB-E	53								1/2"	14"	1/2"	14"			2"		RECESSED INTO COUNTERTOP, SIDE SPLASH
OFOI	CFCI	1	54A	SNEEZE GUARD, STATIONARY	PREMIER METAL & GLASS	TMUS-60	54A																60" LONG
OFOI	CFCI	2	54B	SNEEZE GUARD, STATIONARY	PREMIER METAL & GLASS	TMUS-78	54B																78" LONG
OFOI	CFCI	2	54C	SNEEZE GUARD, STATIONARY	PREMIER METAL & GLASS	TMUS-96	54C																96" LONG
OFOI	OFCI	2	55	UNDERCOUNTER REFRIGERATOR	CONTINENTAL REFRIGERATOR	SW27N-U	55	CTR./24"		1/5	2.5	120	1	5-15P									LOW PROFILE CASTERS, DOOR HINGE ON RIGHT
OFOI	OFCI	3	56	UNDERCOUNTER REFRIGERATOR	CONTINENTAL REFRIGERATOR	SW36N-U	56	24"		1/5	2.5	120	1	5-15P									LOW PROFILE CASTERS, LEFT DOOR HINGED ON LEFT & RIGHT DOOR HINGE ON RIGHT
OFOI	CFCI	4	57	DROP-IN, HOT/COLD/FREEZE	DUKE	HCF-4	57	CTR.			18.4	120/208	1	L14-30P					1"	F.S.			
OFOI	CFCI	6	58B	SNEEZE GUARD, STATIONARY	PREMIER METAL AND GLASS	TMUS-54	58B																
OFOI	OFCI	1	59	CARVING STATION/SHELF	HATCO	DCSB-3624-2	59	CTR.			10.8	120	1	5-15P									
-	-	1	60	NOT USED	-	-	60																
OFOI	OFCI	3	61	COOK & HOLD OVEN	ALTO-SHAAM	750-TH	61	CTR./24"			14.0	120	1	5-15P									LOW PROFILE CASTERS, S/S EXTERIOR, DOOR HINGE ON RIGHT
OFOI	CFCI	2	62	INDUCTION RANGE, BUILT-IN/DROP-IN	SPRING USA	ICB348-26	62	CTR.			35.0	208	1	14-50P									
OFOI	OFCI	1	63	SANDWICH UNIT, REFRIGERATED	CONTINENTAL REFRIGERATOR	SW32N8-FB	63	24"		1/5	2.46	120	1	5-15P									DOOR HINGE ON RIGHT, CASTERS
OFOI	OFCI	1	64	REACH-IN FREEZER	CONTINENTAL REFRIGERATOR	1FESNSA	64	24"		1/4	7.6	120	1	5-15P									CASTERS, DOOR HINGE ON RIGHT
OFOI	CFCI	2	65A	SNEEZE GUARD, STATIONARY	PREMIER METAL AND GLASS	FM1V-52	65A																52" LONG
OFOI	CFCI	1	65B	SNEEZE GUARD, STATIONARY	PREMIER METAL AND GLASS	FM1V-64	65B																64" LONG
-	-	1	66	NOT USED	-	-	66																
OFOI	OFCI	1	67	SOUP WELL	DUKE	ADI-1E-SW	67	CTR.			6.3	120	1	DIRECT					1"	F.S.			
OFOI	OFCI	1	68	BATTER DISPENSER	WARING	WBD2G	68																
OFOI	OFCI	1	69	SANDWICH / SALAD PREP REFRIGERIGERATOR	CONTINENTAL REFRIGERATOR	D48N18M	69	CTR.		1/4	4.5	120	1	5-15P									LEFT DOOR HINGED ON LEFT & RIGHT DOOR HINGED ON RIGHT, S/S FLAT COVER
-	-	1	70	NOT USED	-	-	70																
OFOI	CFCI	1	71	DROP-IN, HOT/COLD/FREEZE	DUKE	HCF-3	71	CTR.			16.0	120	1	14-20P					1"	F.S.			
OFOI	CFCI	2	72	SNEEZE GUARD, STATIONARY	PREMIER METAL AND GLASS	TMUS-54	72																72" LONG
OFOI	CFCI	1	73	GRIDDL E, ELECTRIC	EVO	10-0148-EVT	73	CTR.			40.0	208	1	6-50P									CASTERS
OFOI	OFCI	1	74	REACH-IN UNDERCOUNTER FREEZER	CONTINENTAL FREEZER	SWF27N-U	74	24"		1/4	4.0	120	1	5-15P									DOOR HINGED ON RIGHT
OFOI	OFCI	2	75	MICROWAVE/IMPINGEMENT OVEN	TURBO CHEF	i5-9500-1	75	50"			48.0	208	1	6-50P									
OFOI	OFCI	2	76	PANINI GRILL	WARING COMMERCIAL	WDG250	76	50"			15.0	120	1	5-15P									
OFOI	OFOI	4	77	TRASH RECEPTACLE, INDOOR	RUBBERMAID	2026721	77																
OFOI	CFCI	1	78	SOFT SERVE MACHINE	STOELTING	O431-38I2F	78	50"		1.5	15.0	208	1	L6-30P			1/2"	14"		F.S.			
OFOI	OFCI	2	79	WAFFLE MAKER/BAKER	HATCO	FWM-1B	79	50"			11.3	120	1	5-15P									
-	-	2	80	NOT USED	-	-	80																
OFOI	OFCI	1	81	MILK DISPENSER	SILVER KING	EXISTING	81	50"			1.4	120	1	5-15P									F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFOI	2	82	DISPENSER, DRY PRODUCTS	CAL-MIL	EXISTING	82																F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFCI	2	83	POP-UP TOASTER	HATCO	TPT-120	83	50"			12.0	120	1	5-15P									
OFOI	OFCI	1	84	DISPLAY CASE, PASTRY, COUNTERTOP	CAL-MIL	1012-S	84																
OFOI	OFCI	1	85	SODA ICE & BEVERAGE DISPENSER	CORNELIUS	EXISTING	85	50"			3.0	120	1	CORD & PLUG									F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFCI	2	86	JUICE DISPENSER	BUNN	EXISTING	86	50"			6.0	120	1	5-20P									F.S.E.C. TO VERIFY EXISTING UTILITIES
OFOI	OFCI	1	87	COFFEE BREWER	BUNN	EXISTING	87	50"			14.0	120	1	5-15P			1/2"	14"		F.S.			
OFOI	OFCI	1	88	COFFEE GRINDER	BUNN	22100.0000	88	50"			11.0	120	1	5-15P									
CFCI	CFCI	1	89	COLD STORAGE ASSEMBLY	BALLY	CUSTOM	89	*															* SEE REFRIGERATION CONNECTION SCHEDULE
-	-	1	90	NOT USED	-	-	90																

STATUS:
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI - CONTRACTOR FURNISHED OWNER INSTALLED
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED

KITCHEN EQUIPMENT SCHEDULE FOR EQUIPMENT COST
TO BE SUBMITTED AS ALTERNATE "AA #4"

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FOODSERVICE EQUIPMENT SCHEDULE

sheet number

FS.03



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**Wendell H. Murphy
Football Center -
Kitchen Renovation**

SCO ID: 23-27625-01
NCSU Project #: 202320015
Code: 42324 Item: 305
NCSU Building #:135F

seal/signature



rev date description

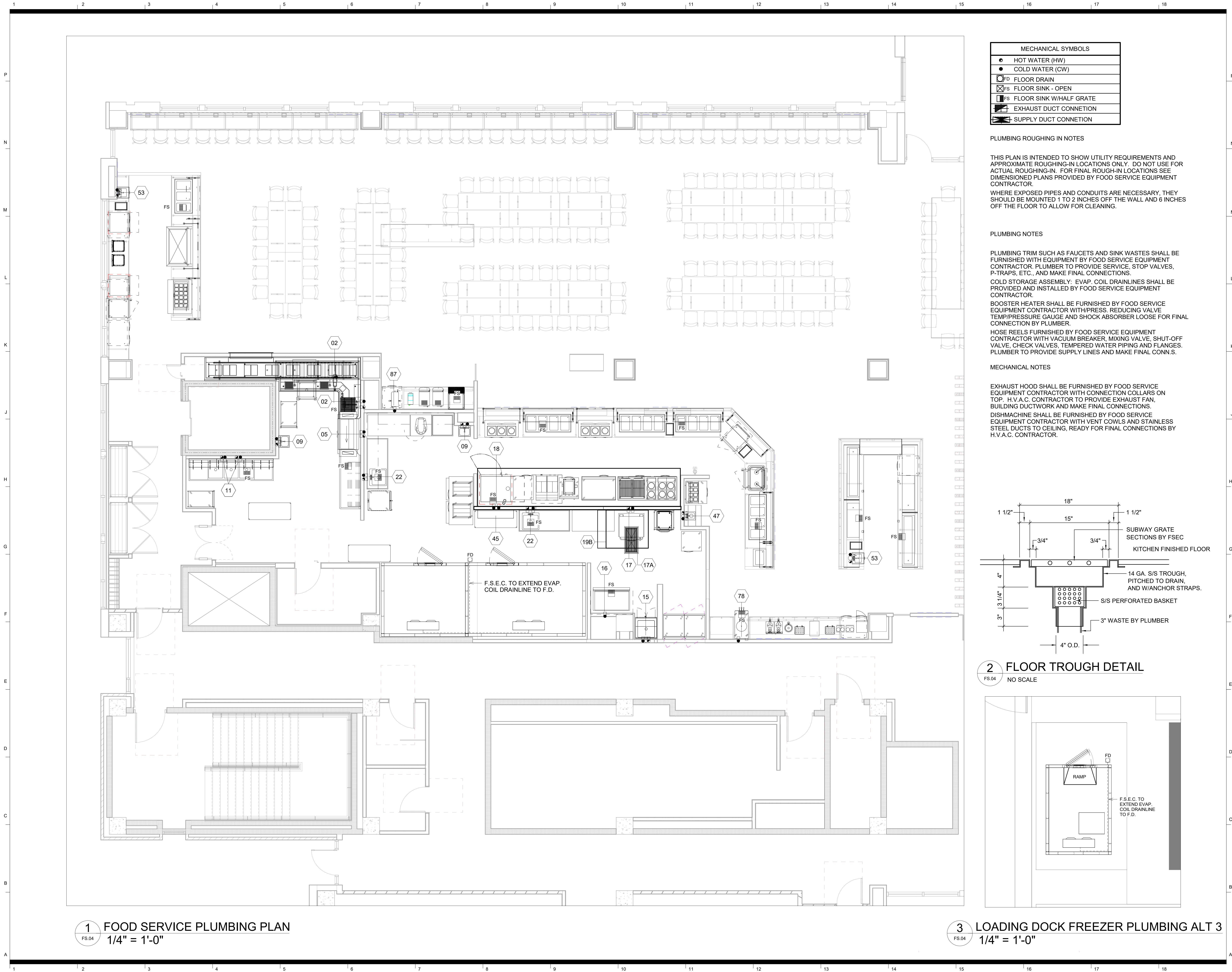
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**FOODSERVICE
EQUIPMENT
SCHEDULE**

sheet number

FS.03



MECHANICAL SYMBOLS	
●	HOT WATER (HW)
●	COLD WATER (CW)
○FD	FLOOR DRAIN
⊠FS	FLOOR SINK - OPEN
■FS	FLOOR SINK W/HALF GRATE
▬	EXHAUST DUCT CONNETION
▬	SUPPLY DUCT CONNETION

PLUMBING ROUGHING IN NOTES

THIS PLAN IS INTENDED TO SHOW UTILITY REQUIREMENTS AND APPROXIMATE ROUGHING-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGHING-IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES OFF THE FLOOR TO ALLOW FOR CLEANING.

PLUMBING NOTES

PLUMBING TRIM SUCH AS FAUCETS AND SINK WASTES SHALL BE FURNISHED WITH EQUIPMENT BY FOOD SERVICE EQUIPMENT CONTRACTOR. PLUMBER TO PROVIDE SERVICE, STOP VALVES, P-TRAPS, ETC., AND MAKE FINAL CONNECTIONS.

COLD STORAGE ASSEMBLY: EVAP. COIL DRAINLINES SHALL BE PROVIDED AND INSTALLED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

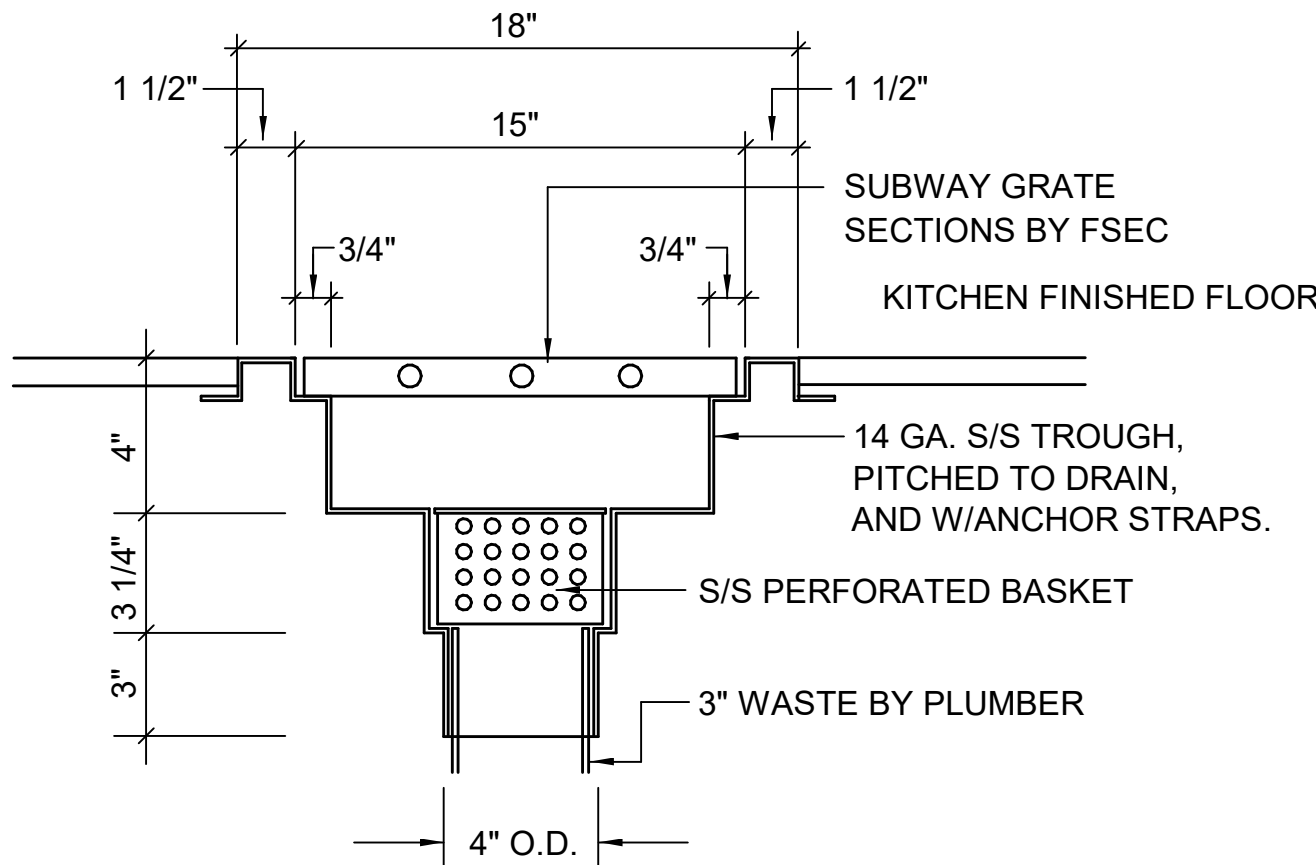
BOOSTER HEATER SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH PRESS. REDUCING VALVE, TEMP/PRESSURE GAUGE AND SHOCK ABSORBER LOOSE FOR FINAL CONNECTION BY PLUMBER.

HOSE REELS FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH VACUUM BREAKER, MIXING VALVE, SHUT-OFF VALVE, CHECK VALVES, TEMPERED WATER PIPING AND FLANGES. PLUMBER TO PROVIDE SUPPLY LINES AND MAKE FINAL CONNS.

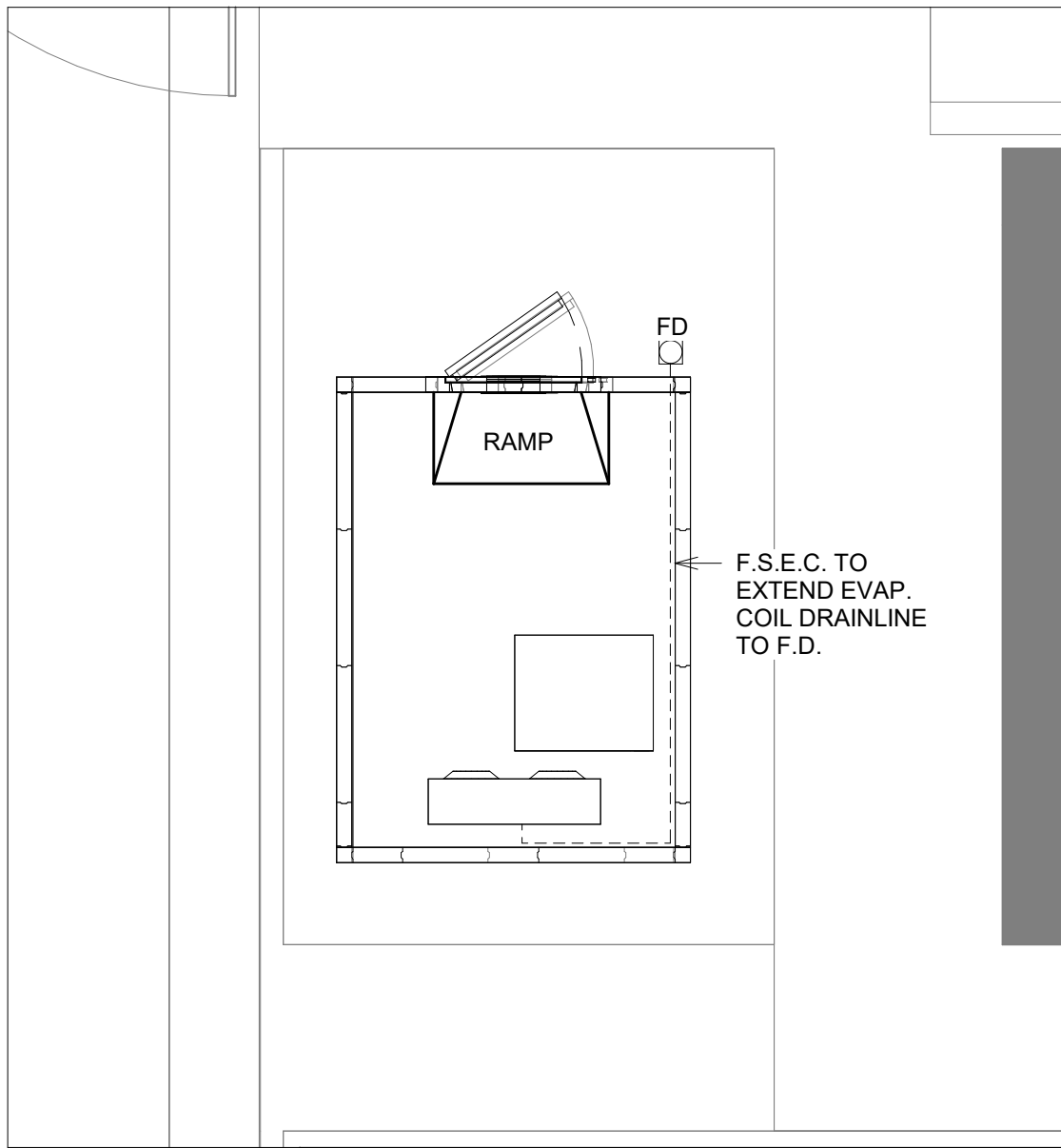
MECHANICAL NOTES

EXHAUST HOOD SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH CONNECTION COLLARS ON TOP. H.V.A.C. CONTRACTOR TO PROVIDE EXHAUST FAN, BUILDING DUCTWORK AND MAKE FINAL CONNECTIONS.

DISHMACHINE SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH VENT COWLS AND STAINLESS STEEL DUCTS TO CEILING, READY FOR FINAL CONNECTIONS BY H.V.A.C. CONTRACTOR.



2 FLOOR TROUGH DETAIL
FS.04 NO SCALE



3 LOADING DOCK FREEZER PLUMBING ALT 3
FS.04 1/4" = 1'-0"



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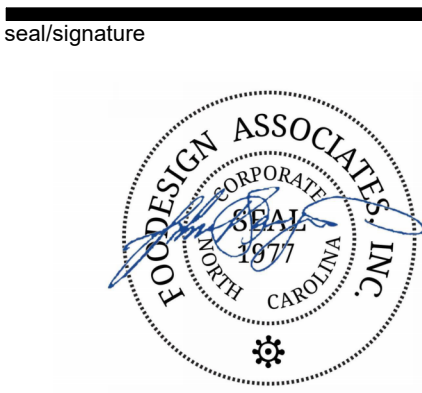
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Football Center -
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Code: 42324 Item: 305
NCSU Building #:135F



rev date description

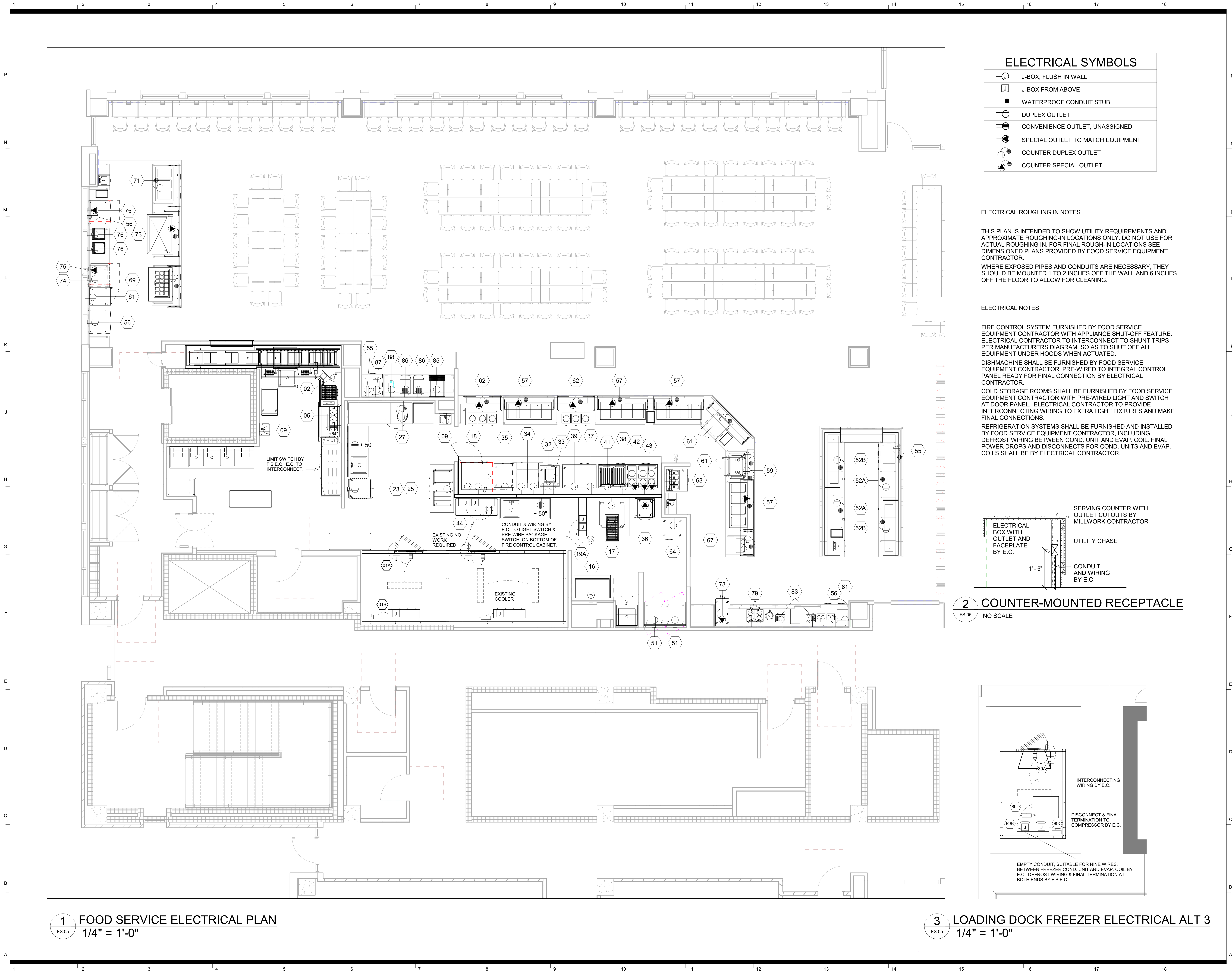
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**FOODSERVICE
PLUMBING PLAN**

sheet number

FS.04



ELECTRICAL SYMBOLS

	J-BOX, FLUSH IN WALL
	J-BOX FROM ABOVE
	WATERPROOF CONDUIT STUB
	DUPLEX OUTLET
	CONVENIENCE OUTLET, UNASSIGNED
	SPECIAL OUTLET TO MATCH EQUIPMENT
	COUNTER DUPLEX OUTLET
	COUNTER SPECIAL OUTLET

ELECTRICAL ROUGHING IN NOTES

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WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES OFF THE FLOOR TO ALLOW FOR CLEANING.

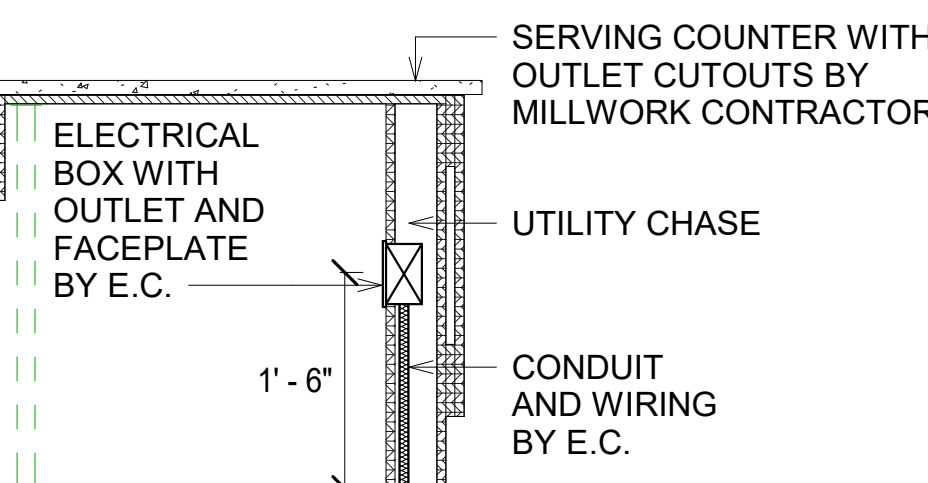
ELECTRICAL NOTES

FIRE CONTROL SYSTEM FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH APPLIANCE SHUT-OFF FEATURE. ELECTRICAL CONTRACTOR TO INTERCONNECT TO SHUNT TRIPS PER MANUFACTURERS DIAGRAM, SO AS TO SHUT OFF ALL EQUIPMENT UNDER HOODS WHEN ACTUATED.

DISHMACHINE SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR, PRE-WIRED TO INTEGRAL CONTROL PANEL READY FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR.

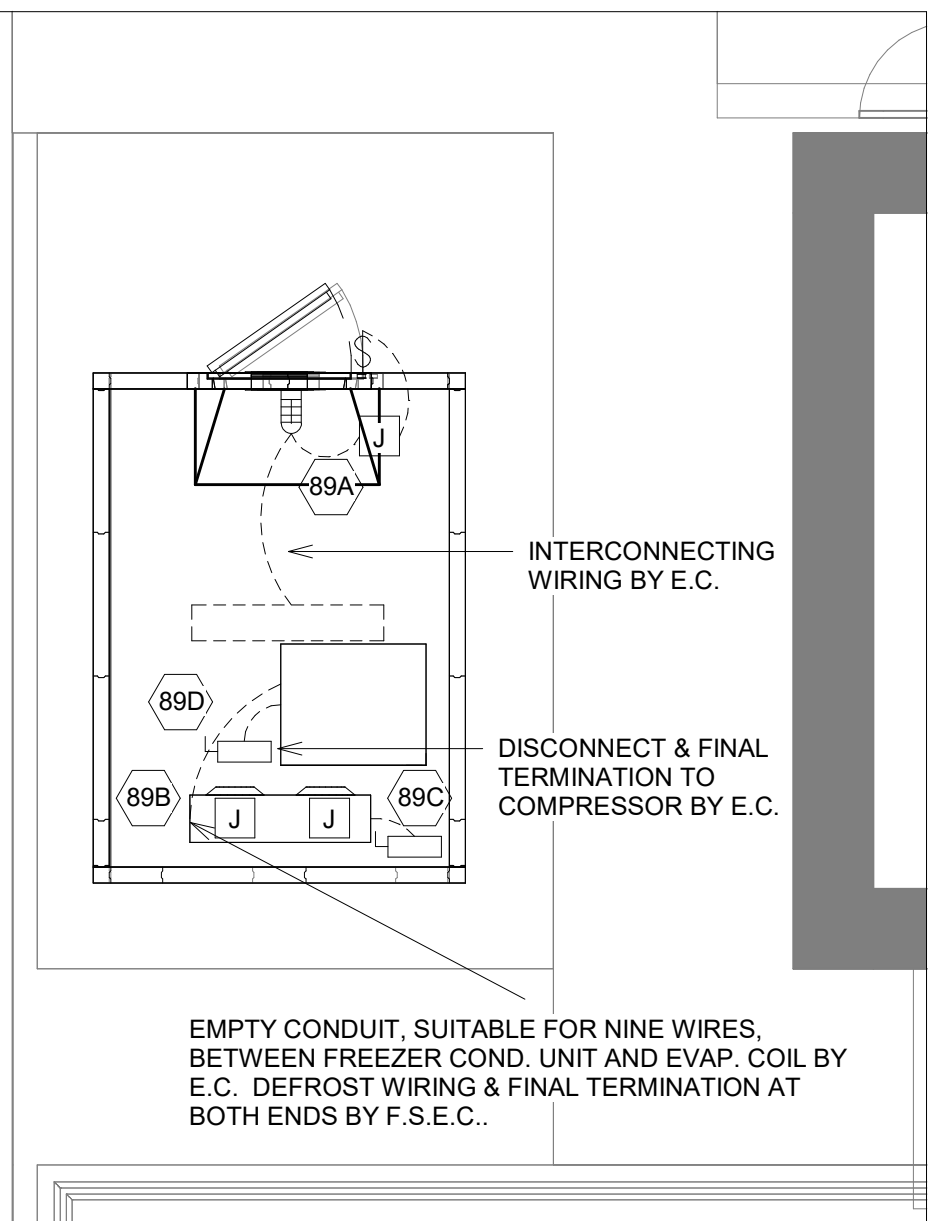
COLD STORAGE ROOMS SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH PRE-WIRED LIGHT AND SWITCH AT DOOR PANEL. ELECTRICAL CONTRACTOR TO PROVIDE INTERCONNECTING WIRING TO EXTRA LIGHT FIXTURES AND MAKE FINAL CONNECTIONS.

REFRIGERATION SYSTEMS SHALL BE FURNISHED AND INSTALLED BY FOOD SERVICE EQUIPMENT CONTRACTOR, INCLUDING DEFROST WIRING BETWEEN COND. UNIT AND EVAP. COIL. FINAL POWER DROPS AND DISCONNECTS FOR COND. UNITS AND EVAP. COILS SHALL BE BY ELECTRICAL CONTRACTOR.



2 COUNTER-MOUNTED RECEPTACLE

FS.05 NO SCALE



3 LOADING DOCK FREEZER ELECTRICAL ALT 3

FS.05 1/4" = 1'-0"

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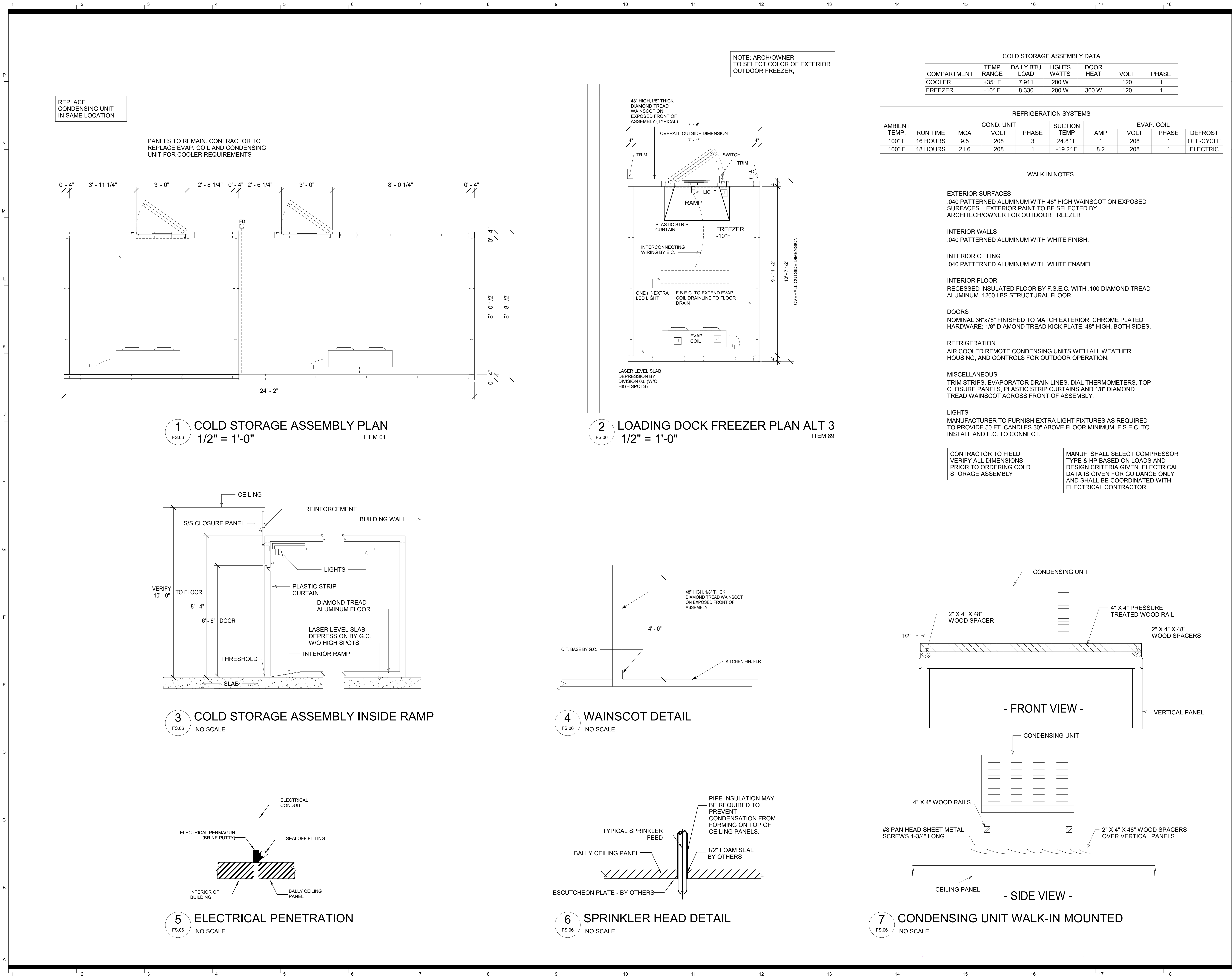
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**FOODSERVICE
ELECTRICAL PLAN**

sheet number

FS.05



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project number 2308

**FOODSERVICE COLD
STORAGE DETAILS**

sheet number

FS.06

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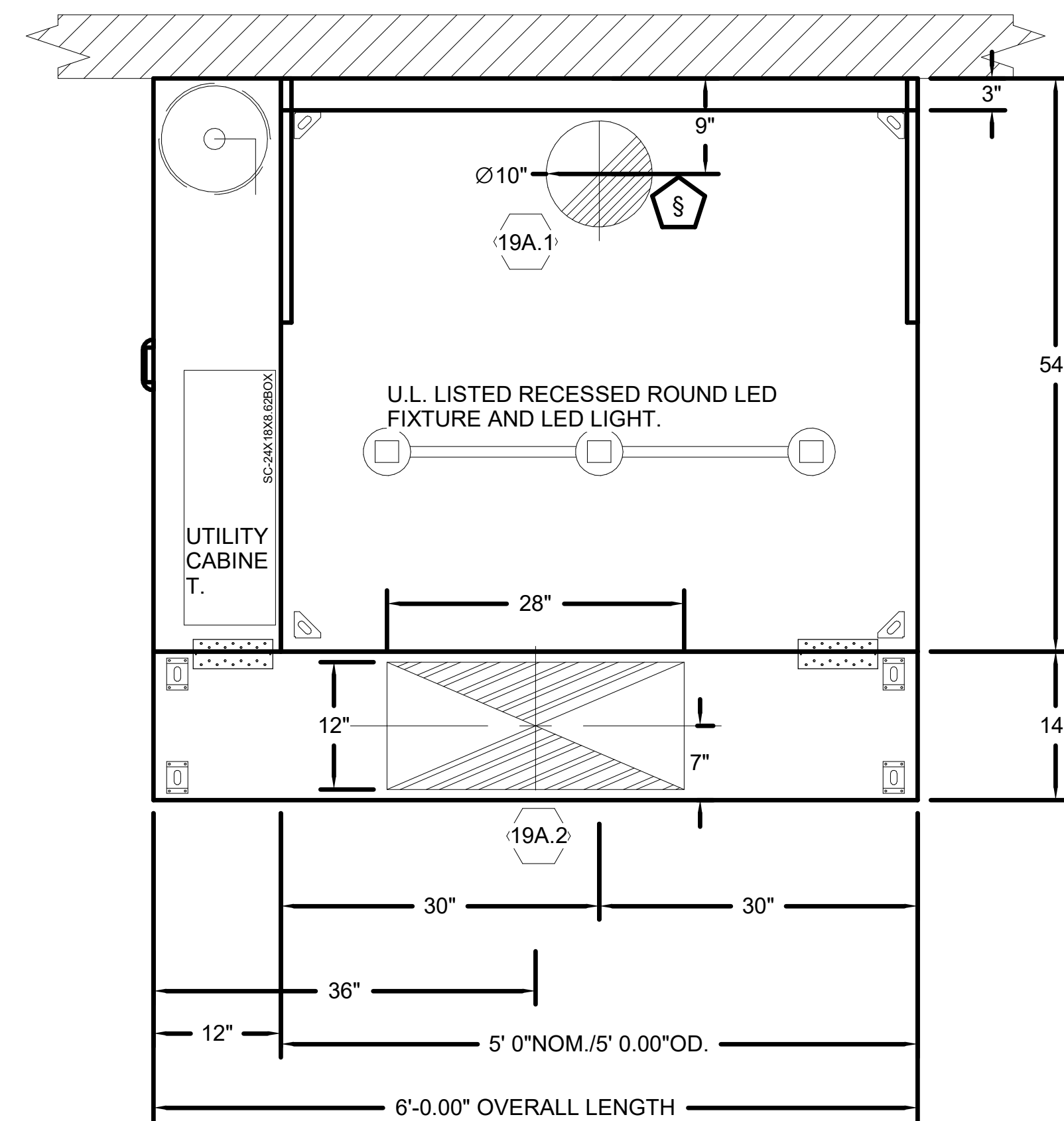
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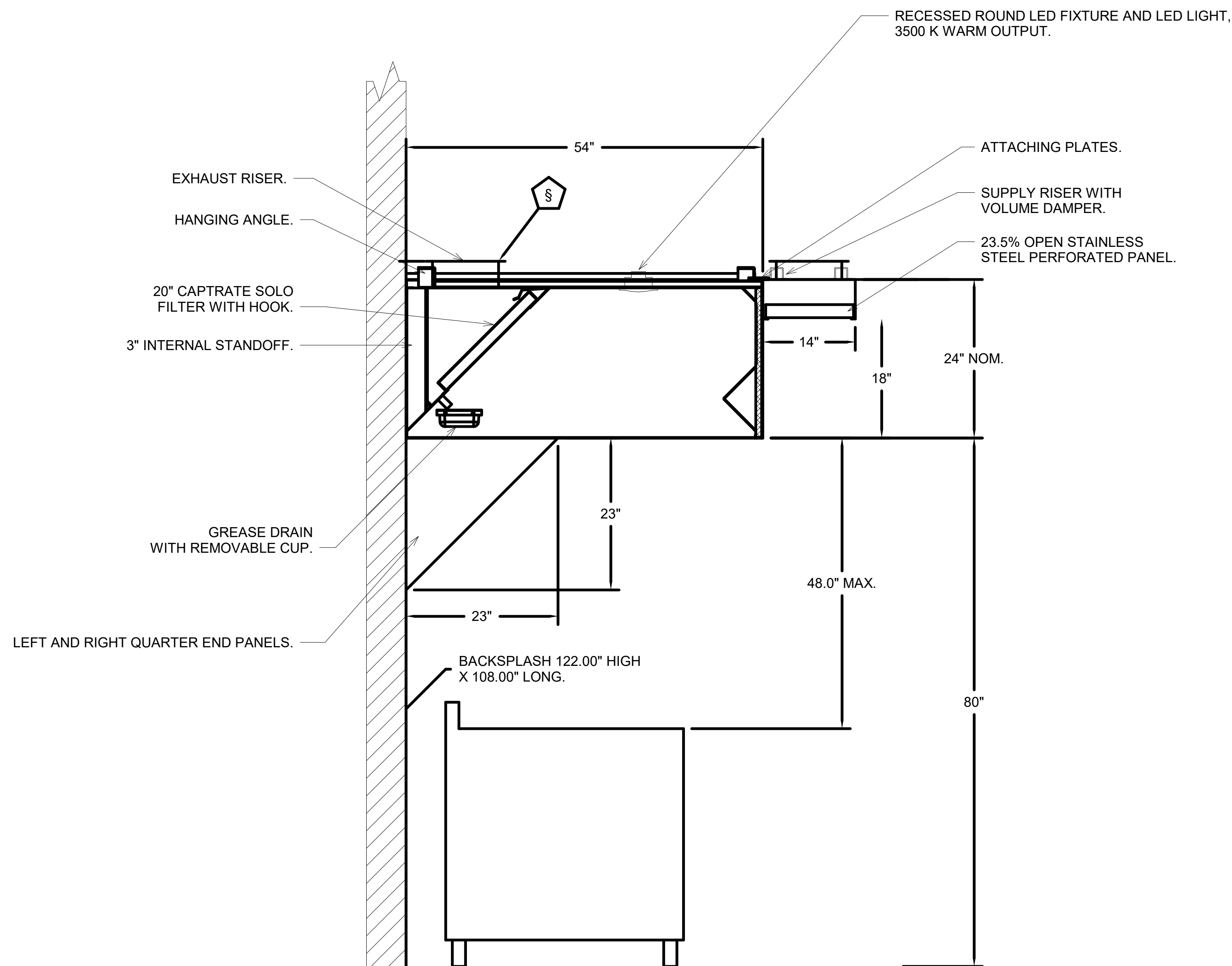
**FOODSERVICE
EXHAUST HOOD
DETAILS**

sheet number

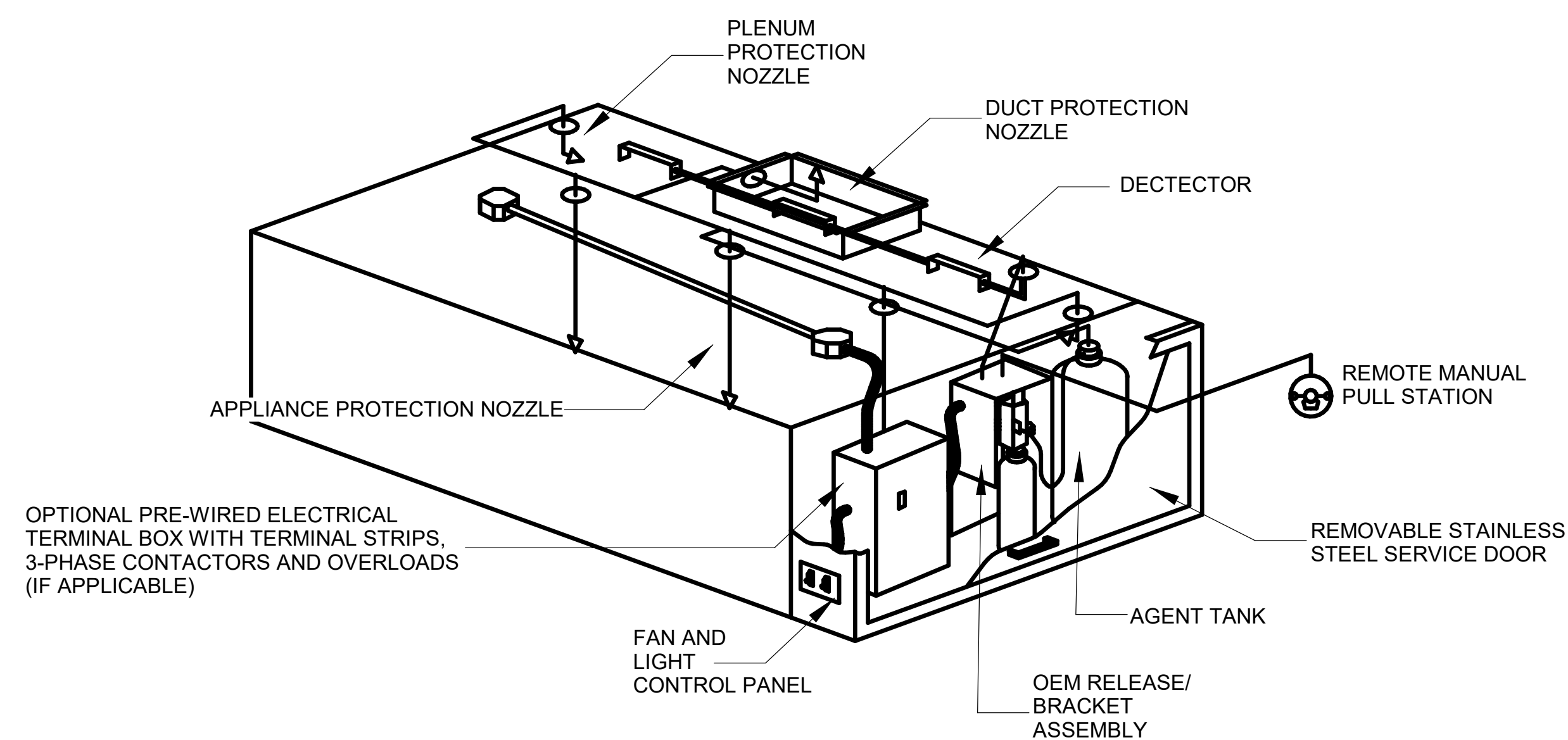
FS.07



1 EXHAUST HOOD PLAN
1" = 1'-0" ITEM 19A



2 EXHAUST HOOD SECTION
1" = 1'-0" ITEM 19A



3 FIRE SUPPRESSION SYSTEM
NO SCALE

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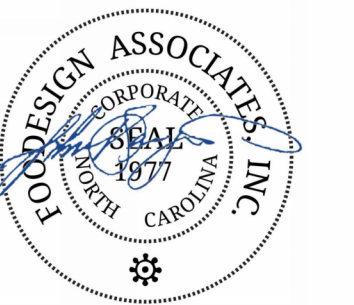
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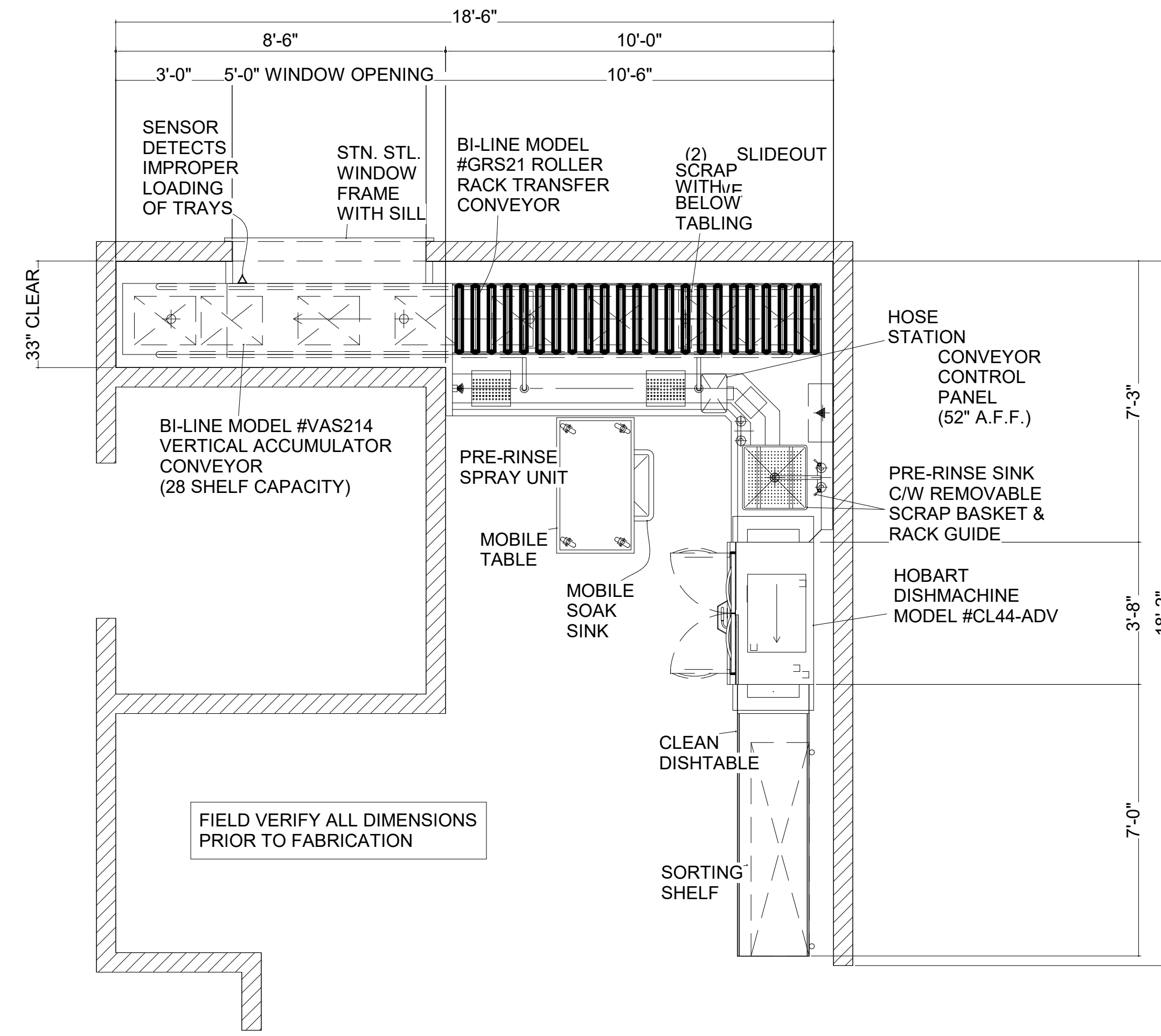
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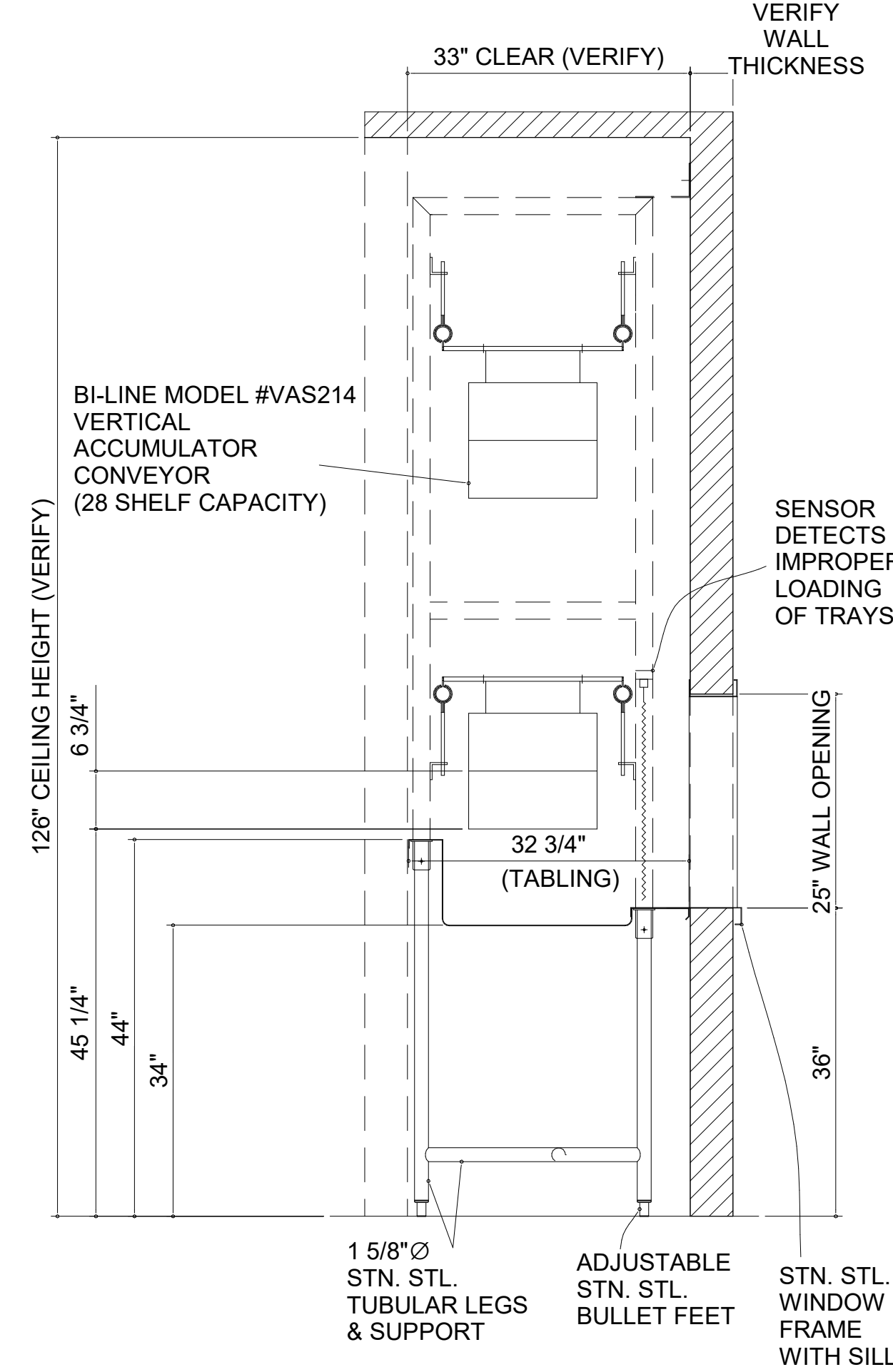
**FOODSERVICE
EQUIPMENT
DETAILS**

sheet number

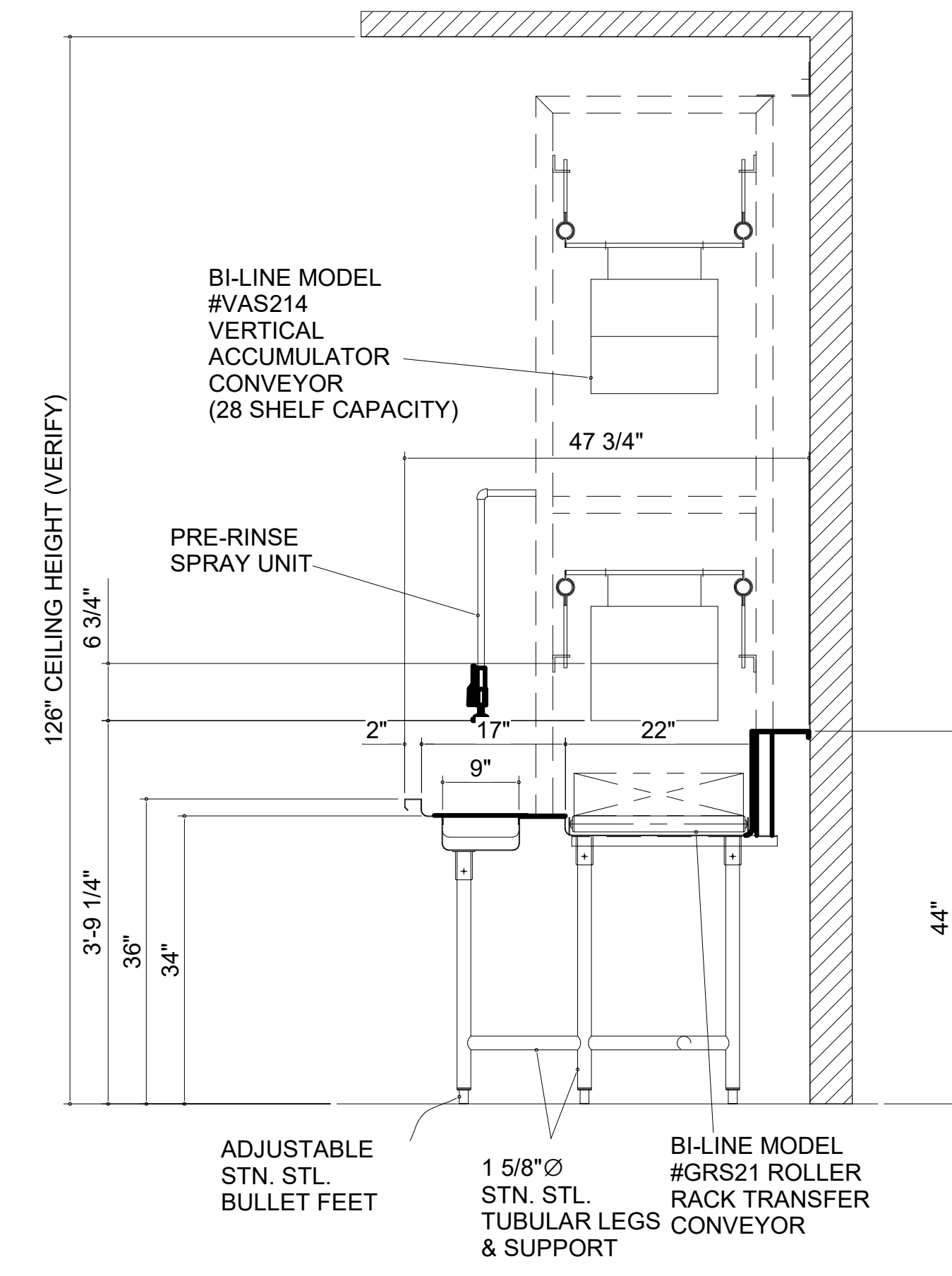
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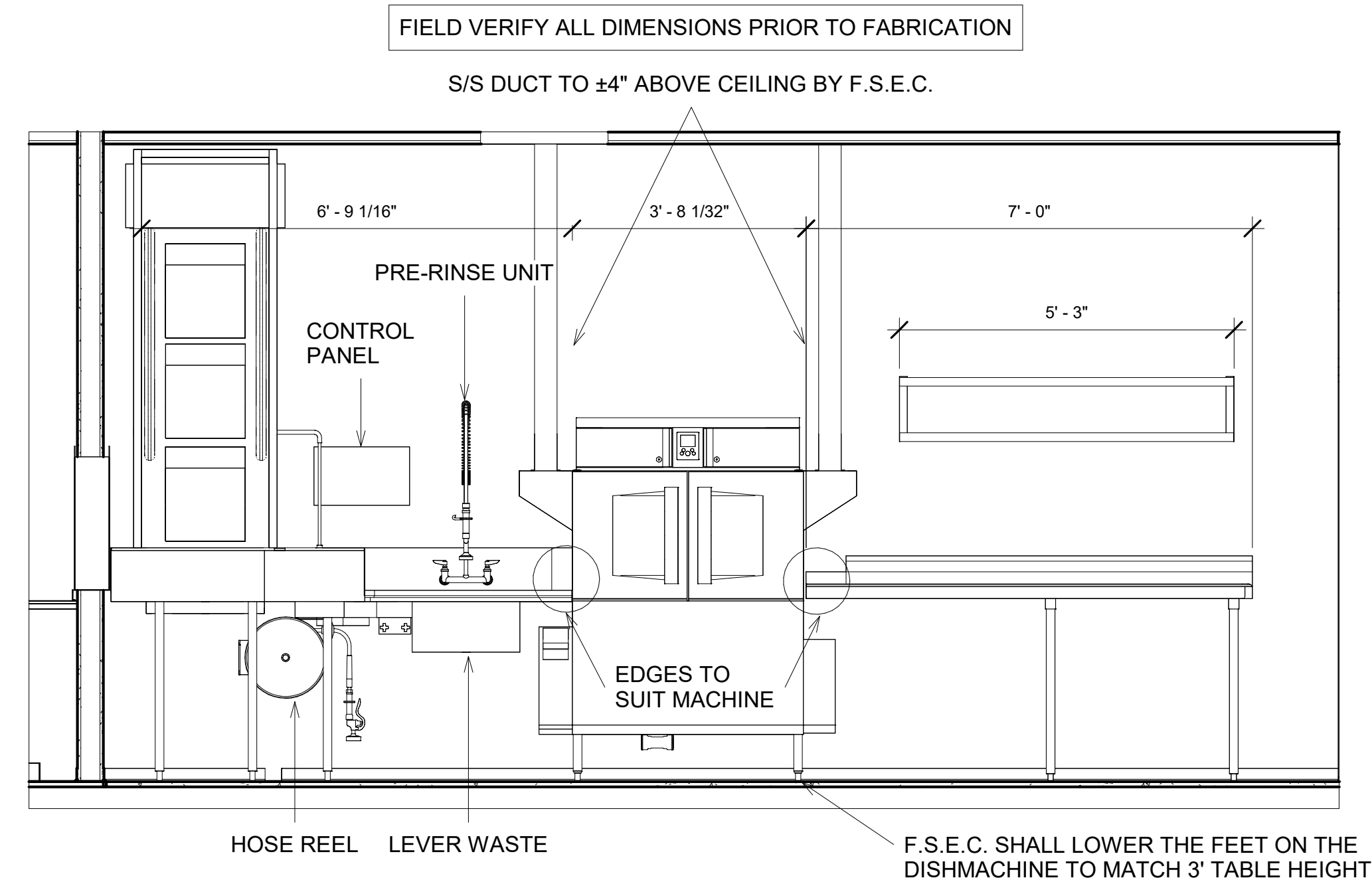
1 DISHTABLE ASSEMBLY
3/8" = 1'-0" ITEMS 2, 5, 6, 7, 8



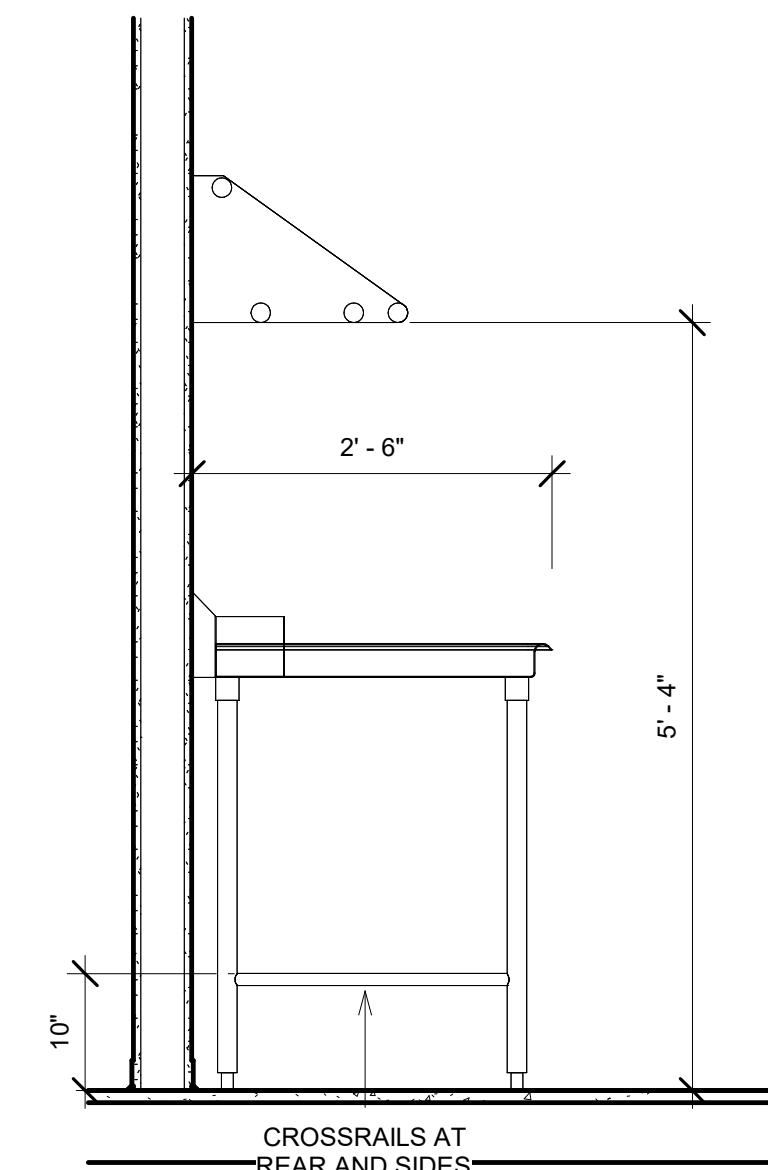
2 CONVEYOR SECTION A
3/4" = 1'-0" ITEM 2



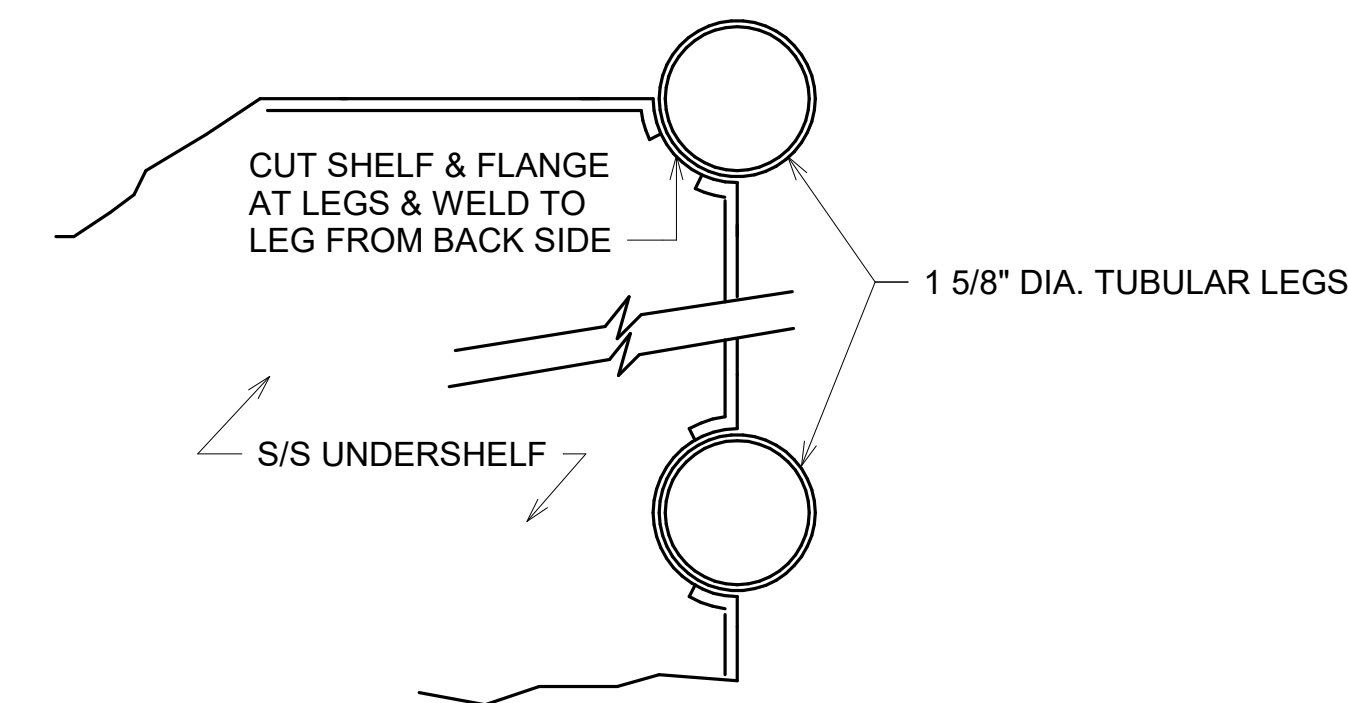
3 CONVEYOR SECTION B
3/4" = 1'-0" ITEM 2



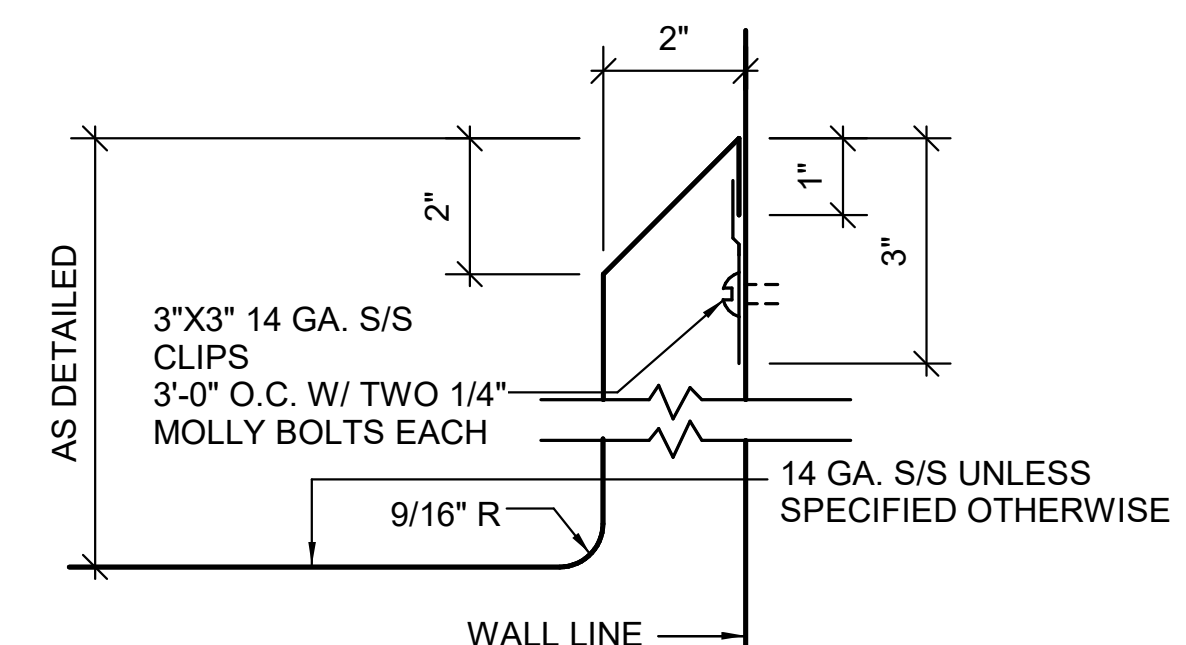
4 DISHTABLE ASSEMBLY SECTION
1/2" = 1'-0" ITEMS 2, 5, 6, 7, 8



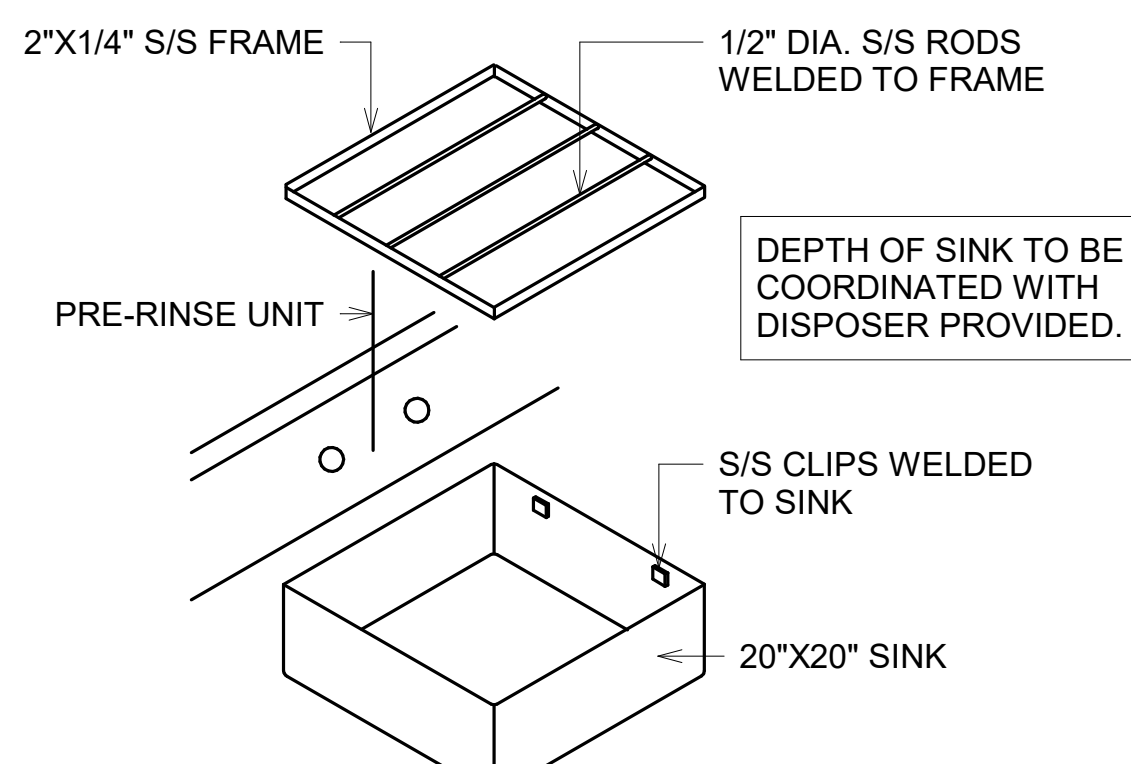
5 CLEAN DISHTABLE
3/4" = 1'-0" ITEMS 6, 7



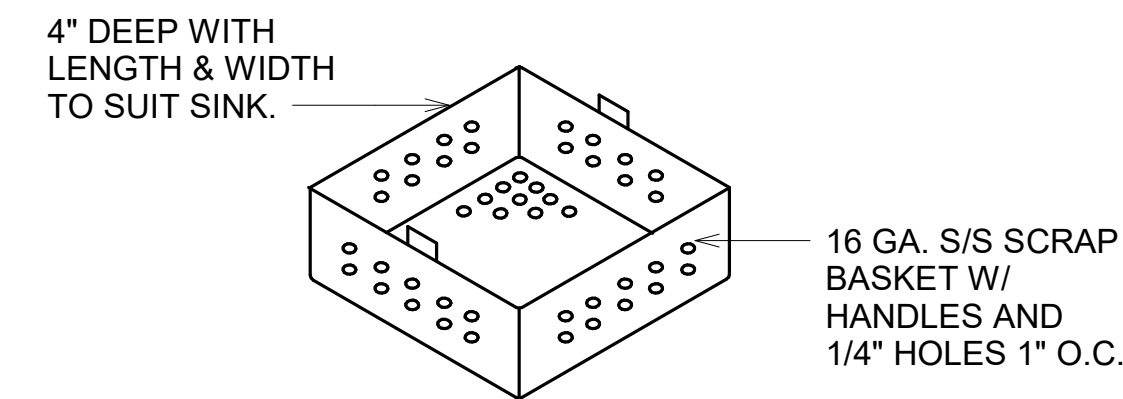
6 PIPE LEG UNDERSHEFF
NO SCALE



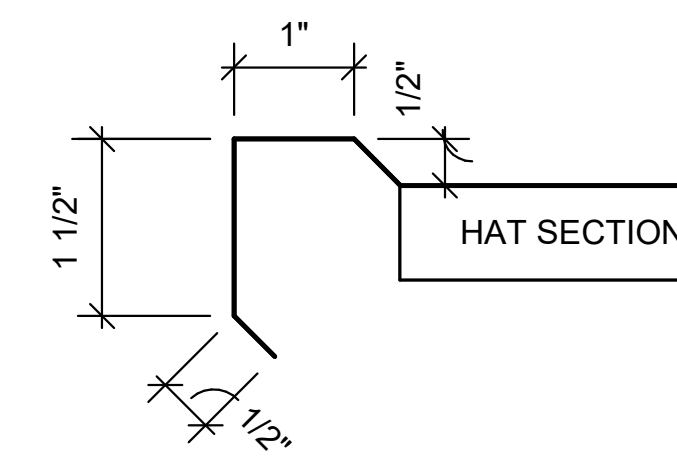
7 BACKSPLASH DETAIL
NO SCALE



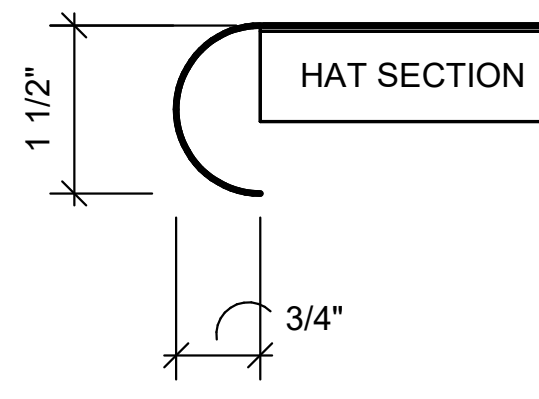
8 PRE-RISE SINK DETAIL
NO SCALE



9 SCRAP BASKET DETAIL
NO SCALE



10 NON-SPILL
NO SCALE



11 PLAIN EDGE
NO SCALE