

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2—FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: **EL BURRITO MEXICAN RESTAURANT**
Address: **OVERHILLS ROAD AT RAY ROAD, SPRING LAKE, NC** Zip Code **28390**
Proposed Use: **ASSEMBLY A-2**
Owner or Authorized Agent: **PETE MARTINEZ** Phone (910) **436-9181** E-Mail **pmart198@aol.com**
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County **HARNETT** State **NORTH CAROLINA**

CONTACT: **GEORGE M. ROSE, P.E.**

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #
Architectural	N/A	N/A		george@mrpe.com
Civil	COASTAL PLAINS ENGINEERING	CHRISTOPHER S. LOCKLEAR	20149	410-521-1218
Electrical	N/A	N/A		coastalplainseng@gmail.com
Fire Alarm	N/A	N/A		
Plumbing	GEORGE M. ROSE, P.E.	GEORGE M. ROSE	11915	410-471-5022
Mechanical	COASTAL PLAINS ENGINEERING	CHRISTOPHER S. LOCKLEAR	20149	410-521-1218
Sprinkler-Standpipe	N/A	N/A		coastalplainseng@gmail.com
Structural	N/A	N/A		
Precast	N/A	N/A		
Retaining Walls >5' Building	GEORGE M. ROSE, P.E.	GEORGE M. ROSE	11915	410-471-5022

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

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

ALTERATION: Level I Level II Level III Change of Use

CONSTRUCTED: 2018 **ORIGINAL OCCUPANCY(S) (Ch. 3):**
RENOVATED: **CURRENT OCCUPANCY(S) (Ch. 3):** VACANT
RISK CATEGORY (table 1604.5) Current: I II III IV V
Proposed: I II III IV

BASIC BUILDING DATA

Construction Type: I-A I-B I-C I-D I-E I-F I-G I-H I-I I-J I-K I-L I-M I-N I-O I-P I-Q I-R I-S I-T I-U I-V I-W I-X I-Y I-Z

Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 130

Standpipes: No Yes Class: I II III Wet Dry Yes

Fire District: No Yes (Primary)

Special Inspections Required: No Yes

Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENOVATED (SQ FT)	SUB-TOTAL
6th Floor				
5th Floor				
4th Floor				
3rd Floor				
2nd Floor				
Mezzanine				
1st Floor	2580		2580	
Basement				
TOTAL	2580		2580	

Primary Occupancy Classification: SELECT ONE

Assembly A-1 A-2 A-3 A-4 A-5

Business

Educational

Factory F-1 Moderate F-2 Low

Hazardous H-1 Detonable H-2 Deflagerable H-3 Combust H-4 Health H-5 HPM

Institutional

Mercantile

Residential R-1 R-2 R-3 R-4

Storage S-1 Moderate S-2 Low High-piled

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: _____ 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.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	ASSEMBLY A-2	2580	4500		

- Frontage area increases from Section 506.3 are computed thus:
 - Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (P)
 - Total Building Perimeter = _____ (P)
 - Ratio (F/P) = _____ (F/P)
 - W = Minimum width of public way = _____ (W)
 - Percent of frontage increase = $100 [F/P - 0.25] \times W/30 =$ _____ (%)
- Unlimited area applicable under conditions of Section 507.
- Maximum Building Area = total number of stories in the building x D (minimum 3 stories) (506.2).
- The maximum area of open parking garages must comply with Table 406.5.4.
- Frontage increase is based on the unspinklered area value in Table 506.2.

ALLOWABLE HEIGHT

ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	55'	22'-2"
Building Height in Stories (Table 504.4)	2	1

- Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.
- The maximum height of air traffic control towers must comply with Table 412.3.1
- The maximum height of open parking garages must comply with Table 406.5.4

PERCENTAGE OF WALL OPENINGS CALCULATIONS

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

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (w/REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0					
Bearing walls Exterior		0					
North		0					
East		0					
West		0					
South		0					
Interior							
Nonbearing walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor construction including supporting beams and joists							
Roof construction including supporting beams and joists							
Roof construction including supporting beams and joists							
Roof ceiling Assembly							
Column supporting roof							
Shafts Enclosures - Exit							
Shafts Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation	2	G1			U419		
Party/Fire Wall Separation	2	G1			U419		
Smoke Barrier Separation							
Tenant/Dwelling Unit/Sleeping Unit Sep							
Incidental Use Separation							

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENINGS CALCULATIONS

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

LIFE SAFETY SYSTEM REQUIREMENTS

Life Safety Plan Sheet #: **G1 (2/G1)**

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 distance (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 electromagnetic egress locks (1010.1.9.9)

Location of emergency escape windows (1030)

The square footage of each fire area (202)

Note any code exceptions or table notes that may have been utilized regarding the items above

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 costs 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)

Existing building: No Yes (Provide Code or Statutory reference)

Existing building: No Yes (Provide Code or Statutory reference)

Climate Zone: 3A 4A 5A

Method of Compliance: Energy Code Performance Prescriptive
ASHRAE 90.1 Performance Prescriptive
(If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
Total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
U-Value of assembly: _____
Projection factor: _____
Door R-Values: _____

Walls below grade (each assembly)

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Door R-Values: _____

Floors over unconditioned space (each assembly)

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

Floor slab on grade

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/Vertical requirement: _____
R-Value of insulation: _____
Slab Heated: _____

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL PARKING SPACES		ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	ACCESSIBLE	
EXISTING AS REQ'D						
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATER CLOSETS			URINALS		LAVATORIES		SHOWERS/TUBS		DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE	
SPACE EXISTING	0	0	1	0	0	1	0	0	0	0	
NEW	1*	2	0	1	2	0	0	0	0	0	
REQUIRED	1	2	1	1	2	0	0	0	0	0	

* URINAL ALSO PROVIDED

SPECIAL APPROVALS

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



VICINITY MAP
NO SCALE

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0
Snow (I_e) 1.0

Live Loads: Roof 20 psf
Mezzanine 100 psf
Floor 100 psf

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed Exposure Category 120 mph (ASCE-7)

SEISMIC DESIGN CATEGORY: A B C D

Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I II III IV
Spectral Response Acceleration A B C D
Site Classification (ASCE 7) S₁ S₂ S₃ S₄

Data Source: Field Test Presumptive Historical Data

Basic structural system: Bearing Wall Dual w/Special Moment Frame Building Frame Dual w/Intermediate R/C or Special Steel Moment Frame Inverted Pendulum Simplified Equivalent Lateral Force Dynamic

Analysis Procedure: Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing Capacity _____ psf
Pile size, type, and capacity _____ psf

SHELL VARIABLE FORM (for all spaces - see plan)
(THIS SECTION REQUIRED FOR ALL SHELL ALTERATIONS TO SHELL AND INTERIOR COMPLETION PROJECTS)
Check each applicable line to match scope of work. Edit as necessary to provide clear detail of installation.

Mechanical No work
 Equipment set with without power
 Trunk line installed: with without outlets
 Gas Line
 Install complete operational system
Other _____

Plumbing No work
 Install water service and sewer
 Install building drain and water distribution main with without branches
 Install complete plumbing system
Other ROUGH-INS ARE INCOMPLETE, ADD'L IN-SLAB WORK IS REQUIRED. WATER SERVICE IS EXISTING (PRESENTLY INSTALLED).

Sprinkler Install complete sprinkler system

Building Install slab partial complete
 Install demising walls
 Install interior partitioning partial complete
 Install Ceilings
 White box (additional interior completion permits are required for Certificate of Occupancy and power)
Other _____

Electrical House panel
 Service laterals to meter centers/panels located on buildings
 Demise wall and ceilings only
 Conduit, duct, raceway in slab
 Power and lighting circuits to "J" Box
 Install light fixtures
 Install Heat/A/C Elevator Generator Parking lot lighting
 Install complete system

Other SUITE PANEL AND SERVICE ARE EXISTING (PRESENTLY INSTALLED).
Please provide full information on any alternate methods and means incorporated into the design of this project. Provide specific details and incorporate into plan submittal any supporting documents or agreement

SPECIAL INSTRUCTIONS (CHAPTER 17)
SPECIAL INSPECTIONS SHALL BE CONDUCTED ON ALL PROJECTS THAT FALL WITHIN BUILDING CATEGORIES AND/OR CONTAIN ELEMENTS SUBJECT TO SPECIAL INSPECTIONS AS PRESCRIBED BY REVISED SECTION 1704.
To schedule a required pre-construction meeting with the City of Fayetteville, please call Doug Maples at (910) 433-1703. The main line number for the Development Services Center is (910) 433-1701.
List whom will inspect the required special inspections:
Fabricator of load bearing components _____
Soil tests _____
Concrete, caissons, piles, piers, pre-cast _____
Post tension concrete _____
Modular construction _____
Steel and connections, welds, bolts, anchors _____
Fire spray tests _____
Smoke control _____
Seismic, wind designs, Quality Assurance _____
Retaining walls _____
Masonry _____
Wood _____
Alternate Methods _____
EIFS _____
Other (describe) _____
Other (describe) _____
Owner or agent _____

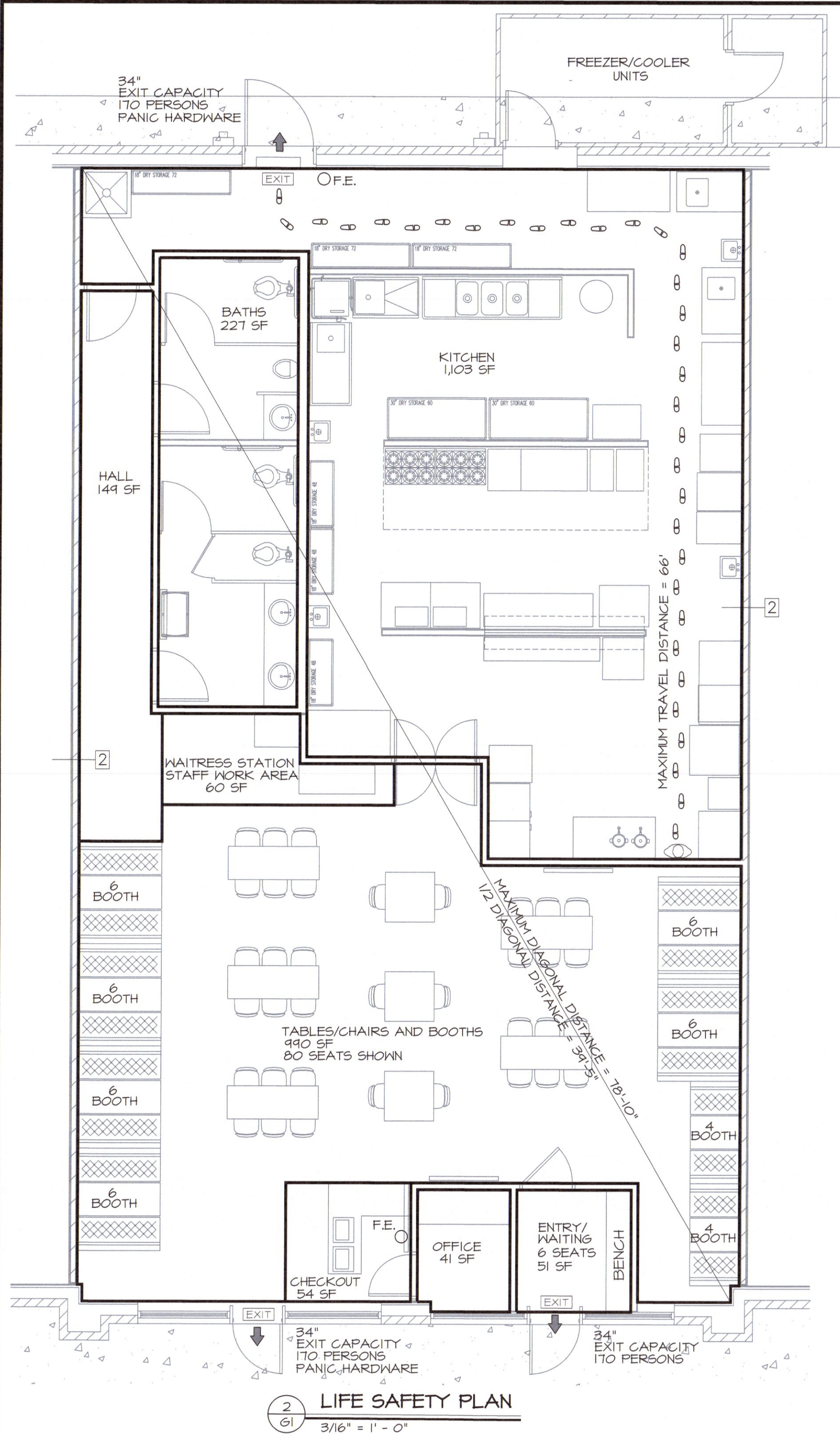
SPECIAL APPROVALS:
Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

NOTE

COUNTY OF HARNETT
2018 APPENDIX B
BUILDING CODE SUMMARY
for:
FIRST TIME UPFIT PLANS FOR
EL BURRITO MEXICAN RESTAURANT
OVERHILLS ROAD AT RAY ROAD
SPRING LAKE, NORTH CAROLINA 28390



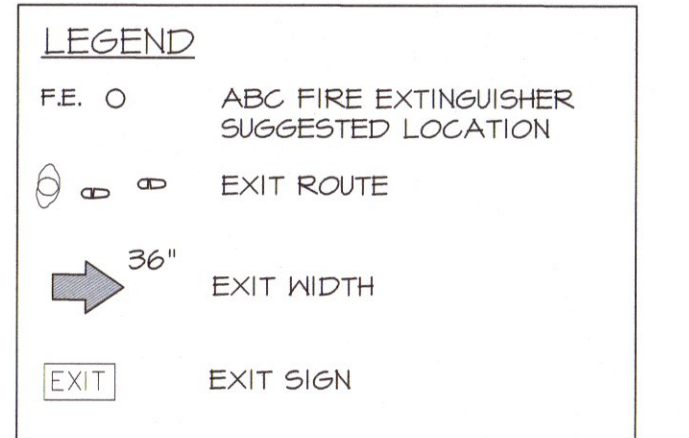
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OCCUPANCY AND PLUMBING FIXTURE INFORMATION

GROSS INTERIOR SQUARE FOOTAGE = 2580 SF
 TYPE OF CONSTRUCTION: II-B
 ASSEMBLY A-2 OCCUPANCY
 SPACE OCCUPANCY (INSIDE THE BUILDING) BY NET SF USING TABLE 1004.1.1
 SEE AREAS SUMMARY DIAGRAM THIS SHEET
 ASSEMBLY (A-2): TABLES/CHAIRS AND BOOTHS = 80 PERSONS
 ASSEMBLY: WAITING = 6 PERSONS
 CHECKOUT = 54 SF = 3 PERSONS
 KITCHEN = 1103 SF/200 SF PER PERSON = 6 PERSONS
 WAITRESS STATION = 60 SF = 5 PERSONS
 TOTAL BUILDING OCCUPANCY = 80 + 6 + 3 + 6 + 5 = 100 PERSONS
 = 50 MALES, 50 FEMALES
 MALE LAVATORIES REQUIRED = 1 PER 75 = 1 TOTAL (1 MALE, ONE URINAL PROVIDED)
 MALE LAVATORIES REQUIRED = 1 PER 200 = 1 TOTAL (1 PROVIDED)
 FEMALE LAVATORIES REQUIRED = 1 PER 75 = 1 TOTAL (2 PROVIDED)
 FEMALE LAVATORIES REQUIRED = 1 PER 200 = 1 TOTAL (2 PROVIDED)
 MAXIMUM TRAVEL DISTANCE: 66 FEET
 MAXIMUM ALLOWABLE TRAVEL DISTANCE: 200 FEET (PER 1017.2)
 THE COMMON PATH OF TRAVEL IS LESS THAN 30 FEET. (PER 1024.8)
 THERE ARE NO DEAD END CORRIDORS OVER 20 FEET. (PER 1020.4)
 MIN. NO. OF EXITS REQUIRED: TWO (PER SECTION 1006.2.1)
 NUMBER OF EXITS PROVIDED: TWO
 MAXIMUM DIAGONAL LENGTH = 78'-10"
 ONE FRONT DOOR AND REAR EGRESS DOOR ARE REQUIRED TO HAVE PANIC HARDWARE. (PER 1010.1.10)
 DOORS DO NOT HAVE DELAYED EGRESS LOCKS (PER 1008.1.1.1)
 DOORS DO NOT HAVE ELECTROMAGNETIC EGRESS LOCKS (PER 1010.1.1.3)
 DOORS DO NOT HAVE HOLD OPEN DEVICES.
 THERE ARE NO EMERGENCY ESCAPE WINDOWS (PER 1030)
 THERE ARE NO SLEEPING AREAS (SMOKE COMPARTMENTS)
 EGRESS ILLUMINATION PROVIDED AT EACH EXIT (PER 1008)
 THIS SPACE IS NOT PROTECTED BY FIRE SPRINKLERS.
 NO. OF FIRE EXTINGUISHERS PROVIDED: 2 TOTAL
 PROVIDE FIRE EXTINGUISHERS UNDER THE FOLLOWING CONDITIONS:
 1. WITHIN 30' OF COMMERCIAL COOKING EQUIPMENT
 2. IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED, USED OR DISPENSED.
 3. WHERE REQUIRED BY SECTIONS IN TABLE 906.1, N.C. BUILDING CODE
 4. SPECIAL-HAZARD AREAS WHERE REQUIRED BY FIRE CODE OFFICIAL.

WALL TYPES
 TWO LAYERS 5/8" SHEETROCK ON EACH SIDE OF 30 GA 3-5/8" METAL STUDS AT 16" O.C. 2-HOUR ASSEMBLY PER UL 144.



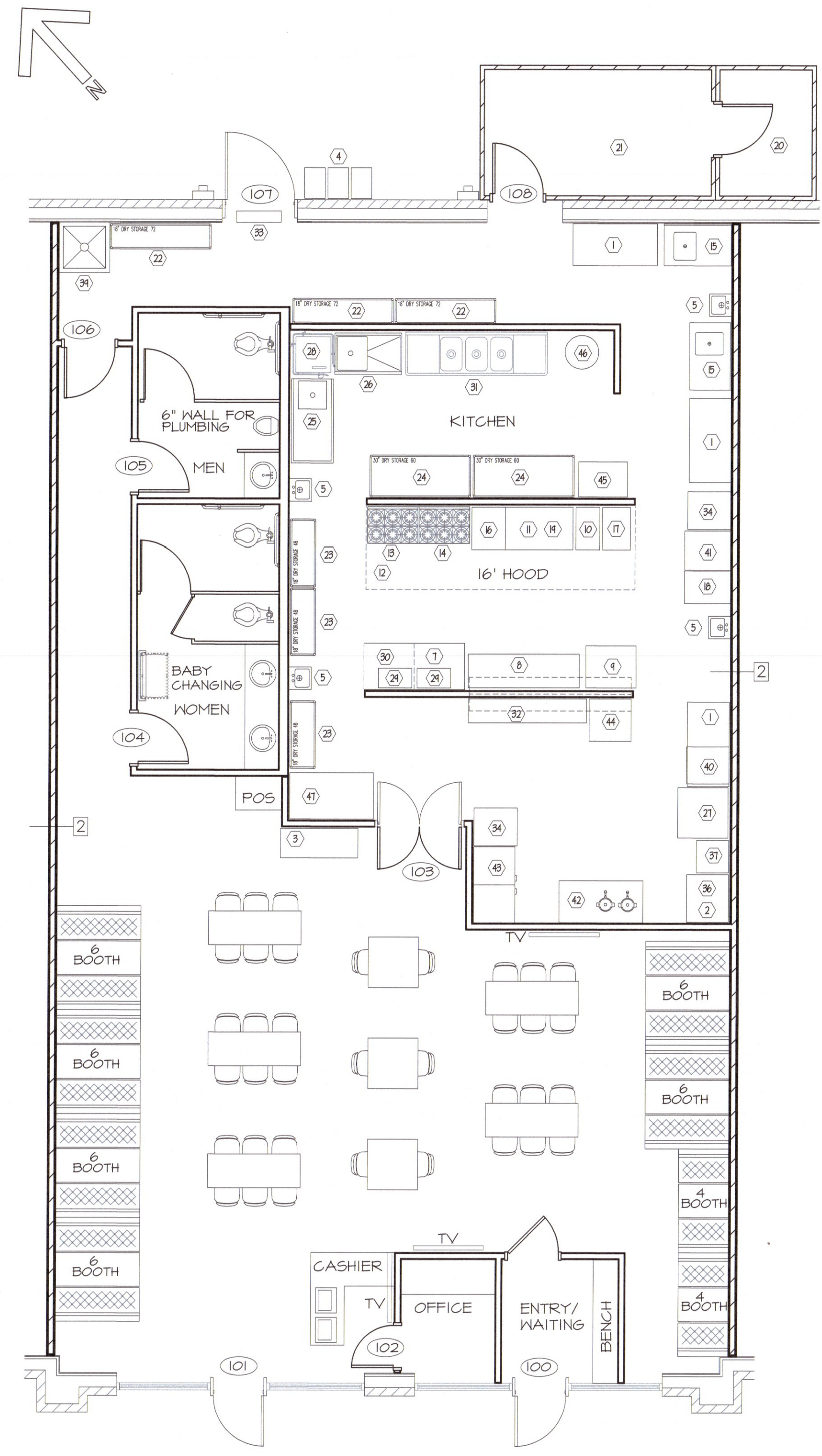
KITCHEN EQUIPMENT SCHEDULE

NO.	DESCRIPTION	MODEL	MANUFACTURER	BTU LOAD
1	TABLE, 5.5, 60" x 30"	600730606	REGENCY	
2	ICE CUBE MACHINE, 30" x 34"	1406	HANITONOC	
3	BEER REFRIGERATOR W/GLASS DOORS	NLR94485B	NORLAKE	
4	TANKLESS WATER HEATERS	CUMHEN	RINNAI	
5	HAND SINK, 5.5, W/ SPLASH GUARDS (3)	60015175P	REGENCY	
6	SHELVING, WIRE 48" X 18" (10)	46056184B	REGENCY	
7	REFRIGERATOR, SANDWICH PREP 12"	NLR972-30A	NORLAKE	
8	STEAM TABLE, HOTBATH W/ UNDERSHELF 74"	AWTS-LP-IX	EAGLE GROUP	30,000
9	TABLE, 5.5, 30" x 36"	60030246	REGENCY	
10	FRYER, FULL BASKET 14", GAS	33645	FITLO	40,000
11	GRIDDLE, COMETER INT, 48", GAS	6484F	STAR-MAX	119,000
12	HOOD, EXHAUST 16" X 4"	ED-2	CAPITVEAIRE	
13	RANGE, STANDARD STD OVEN 36", GAS	6TB624-AB24	GARLAND	60,000
14	CONVECTION RANGE, STD OVEN 36", GAS	636-6R-C	GARLAND	236,000
15	TABLE, PREP 5.5, W/ SINK 48"	600513048LFT (RT)	REGENCY	
16	CHAR BROILER 24", GAS	6TB624	GARLAND	72,000
17	FRYER, FULL BASKET 18", GAS	63645	FITLO	150,000
18	CABINET, HEATED HOLDING/PROOFING 20.3"	ITTH1836	AVANTGO	
19	REFRIGERATOR, CHEF BASE 72"	NLC872	NORLAKE	
20	FREEZER, WALK-IN 8 X 6	COMBINATION BOX	KOLPAK	
21	COOLER, WALK-IN 8 X 14	7-4" X 11-4"		
22	SHELVING, WIRE 18" X 12"		REGENCY	
23	SHELVING, WIRE 18" X 48"		REGENCY	
24	SHELVING, WIRE 30" X 60"		REGENCY	
25	30"x60" CLEAN TABLE	BPCDT-60R-16/3	EAGLE GROUP	
26	DISHWASHER, SOILED STRAIGHT 48"	BPSDT-48L-16/3	EAGLE GROUP	
27	CUP STORAGE CART 36" X 36"			
28	DISHWASHER, LOW ENERGY HOOD TYPE	A4 WATER SAVER	AUTO-CLOR	
29	MICROWAVE OVEN	180M10055	SOLHAYE	
30	MICROWAVE SHELF 24"	MM45-18-24	REGENCY	
31	SINK, 3-COMPARTMENT 103"	516-20-3-18	EAGLE GROUP	
32	CABINET 17" X 84"			
33	FLY-FAN			
34	SINGLE-DOOR REACH-IN REFRIGERATOR	NLF23-5	NORLAKE	
35	RANGE, CONVECTION OVEN 36", GAS	S36A	SOUTHEND	
36	ICE BIN BASE 36"	B-510	HANITONOC	
37	SODA FOUNTAIN DISPENSER, COUNTERTOP	DI-2323 (6 VALVE)	PEPSI COLA	
38	SPLASH GUARD, 5.5, 24"x44" BOLTED	T-F5-18D	ADVANCE TABCO	
39	HOP SINK			
40	CHIP WARMER, HEATED HOLDING	VCD26	VILCAN	
41	REFRIGERATOR, REACH-IN 56L 27.5"	NLR23-5	NORLAKE	
42	WORK TABLE 30"x60"	600730126	REGENCY	
43	REFRIGERATOR, REACH-IN DEL 55"	NLR44-5	NORLAKE	
44	30"x30" TABLE, CHIP STORAGE AREA			
45	CART, CAN STORAGE	CSR-4	CHANEL MFG	
46	TRASH CAN LARGE			
47	TABLE, 5.5, 30"x60"			

DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE	ROUGH OPENING	DOOR SWING	JAMB TYPE	LOCK SET	REMARKS
100	-	-	RH	STOREFRONT	KEYED	EXISTING DOOR TO REMAIN
101	-	-	LH	STOREFRONT	PANIC HARDWARE	EX. DOOR, NEW PANIC HARDWARE
102	2/6X10	32"x86"	LH	H. METAL	KEYED	
103	3/0X10	BY MFTR	-	-	NONE	DOUBLE ACTION DOOR
104	3/0X10	38"x86"	RH	H. METAL	PRIVACY	
105	4/0X10	38"x86"	RH	H. METAL	PRIVACY	
106	3/0X10	38"x86"	-	H. METAL	PASSAGE	
107	3/0X10	38"x86"	LH	H. METAL	PANIC HARDWARE	EX. DOOR, NEW PANIC HARDWARE
108	BY MFTR	BY MFTR	LH	BY MFTR	-	BY FREEZER/COOLER VENDOR

NOTES:
 1. INTERIOR DIMENSIONS SHOWN ARE STUD TO STUD UNLESS OTHERWISE NOTED.
 2. EXCEPT WHERE NOTED OTHERWISE, INTERIOR WALLS ARE 20 GA 3-5/8" X 10' METAL STUDS AT 16" O.C. WITH 5/8" SHEETROCK EACH SIDE.
 3. DEPICTS DOOR NUMBER (100)
 4. PAINT BATHROOM WALLS TO 48" ABOVE FF WITH EPOXY PAINT OR PROVIDE WASHABLE WALL COVERINGS.

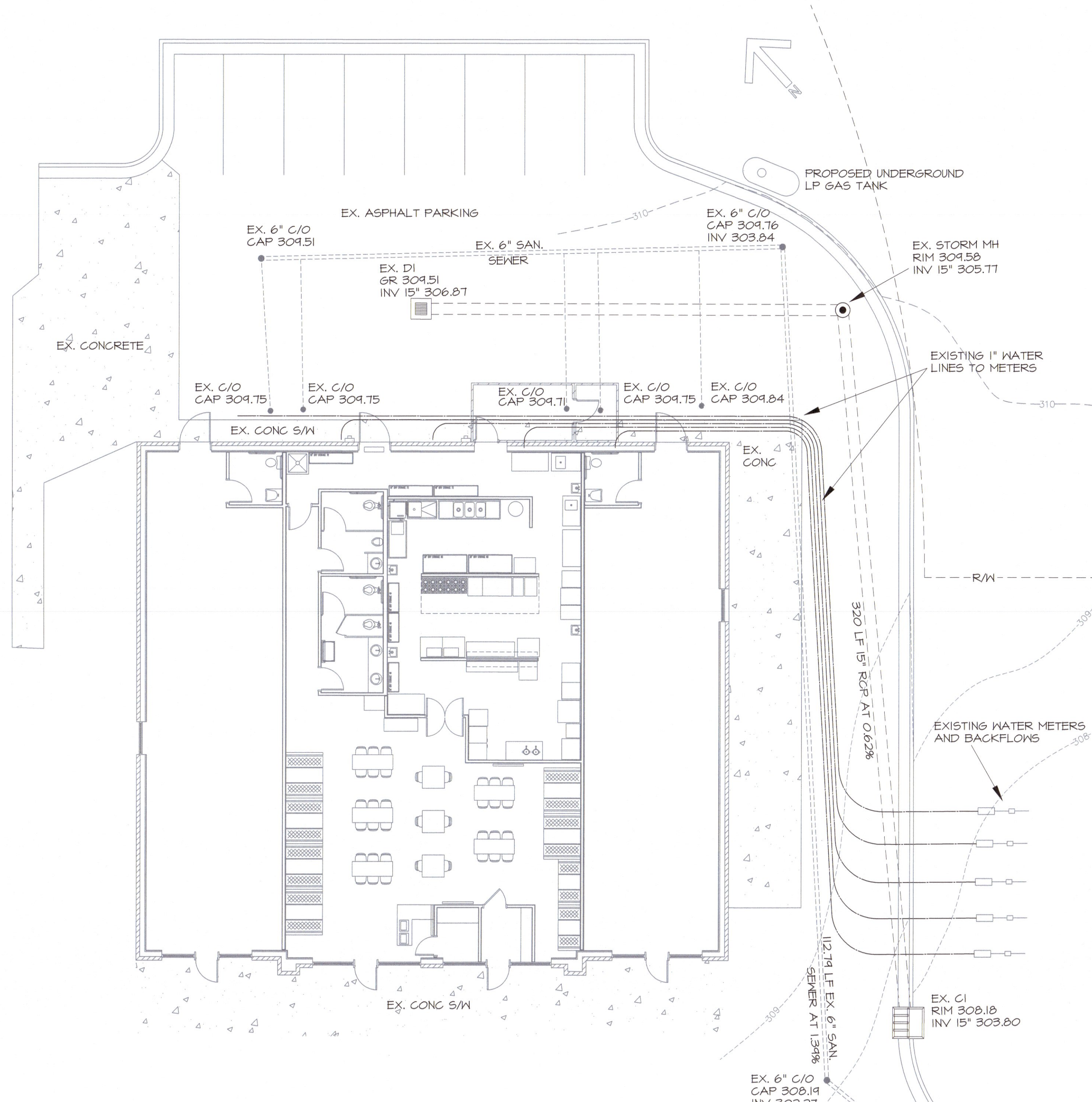


REVISIONS
 11-24-22 DR. LOB, GR. COASTER

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 FAYETTEVILLE, NC 28305
 910-977-5822 FAX 910-485-5823 EMAIL george@gmrpe.com

EL BURRITO MEXICAN RESTAURANT
 6743-6749 OVERHILLS ROAD
 SPRING LAKE, NC
FLOOR PLAN AND EQUIPMENT SCHEDULE

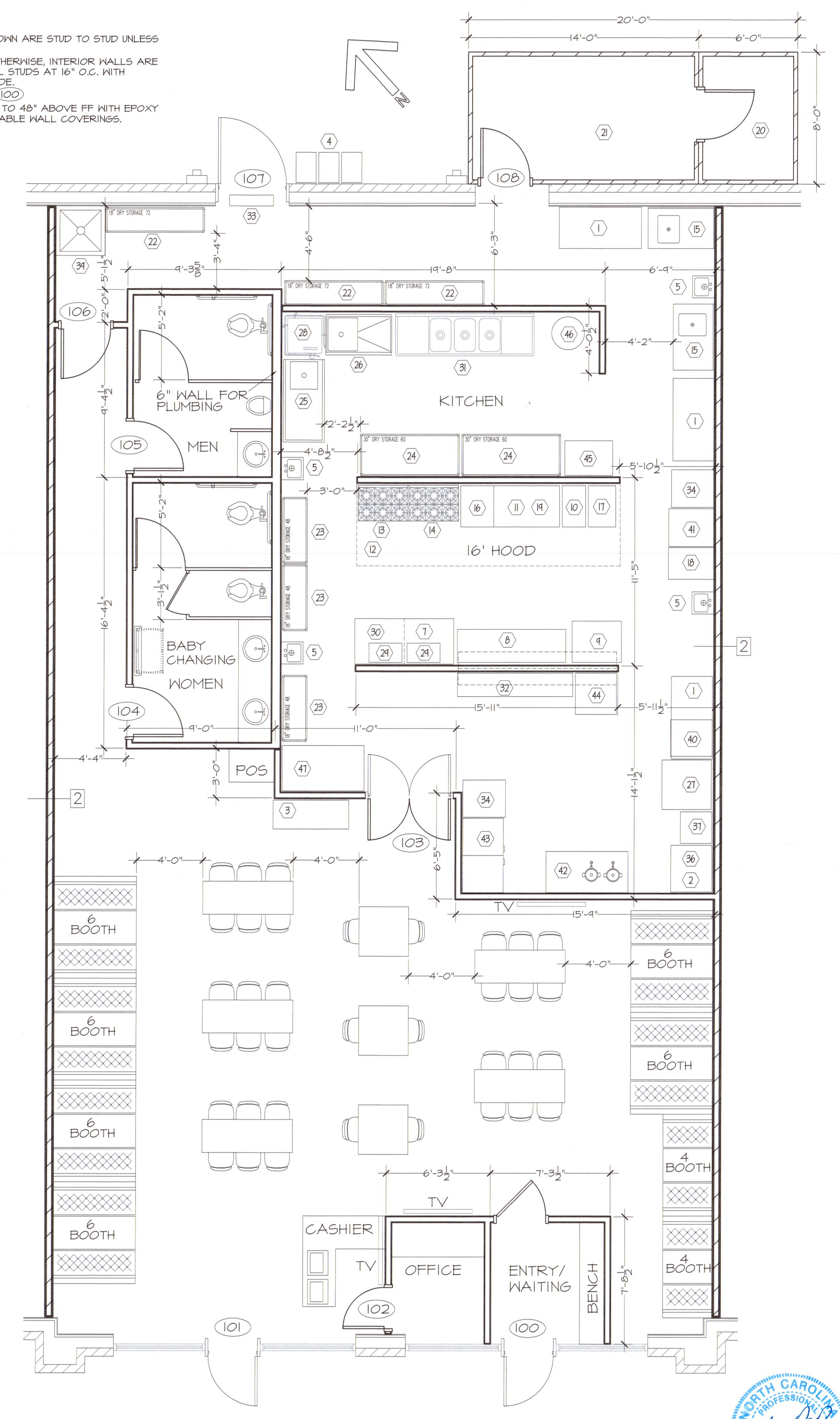
DATE: NOV 2022
 DRAWN BY: GMR
 CHECKED: GMR
 SCALE: NOTED
 SHEET NO. **G1**



2 PARTIAL SITE PLAN (EXISTING CONDITIONS)
SCALE 1" = 10'

KITCHEN EQUIPMENT SCHEDULE							
NO.	DESCRIPTION	MODEL	MANUFACTURER	NO.	DESCRIPTION	MODEL	MANUFACTURER
1	TABLE, 5.5, 60" x 30"	600T30606	REGENCY	25	30"x60" CLEAN TABLE	BPCDT-60R-16/3	EAGLE GROUP
2	ICE CUBE MACHINE, 30" x 34"	I-606	MANITOC	26	DISHWASHER, SOILED STRAIGHT 48"	BPSDT-48L-16/3	EAGLE GROUP
3	BEER REFRIGERATOR W/GLASS DOORS	NLRGM485B	NORLAKE	27	CUP STORAGE CART 36" x 36"		
4	TANKLESS WATER HEATERS	CUMEN	RINNAI	28	DISHWASHER, LOW ENERGY HOOD TYPE	A4 WATER SAVER	AUTO-CHLOR
5	HAND SINK, 5.5, W/ SPLASH GUARDS (3)	600H515P	REGENCY	29	MICROWAVE OVEN	180MM00055	SOLINAVE
6	SHELVING, WIRE 48" X 18" (10)	460E91848	REGENCY	30	MICROWAVE SHELF 24"	MM5-18-24	REGENCY
7	REFRIGERATOR, SANDWICH PREP 72"	NLSMPT2-30A	NORLAKE	31	SINK, 3-COMPARTMENT 103"	516-20-3-18	EAGLE GROUP
8	STEAM TABLE, METBATH W/ UNDER-SHELF 74"	AMT5-LP-1X	EAGLE GROUP	32	CABINET 17" X 84"		
9	TABLE, 5.5, 30"x36"	60030246	REGENCY	33	FLY-FAN		
10	FRYER, FULL BASKET 14", 6AS	35G15	PITCO	34	SINGLE-DOOR REACH-IN REFRIGERATOR	NLF23-5	NORLAKE
11	GRIDDLE, COUNTER UNIT 48", 6AS	648MF	STAR-MAX	35	RANGE, CONVECTION OVEN 36", 6AS	536A	SOUTHBEND
12	HOOD, EXHAUST 16' X 4'	BD-2	CAPTIVEAIRE	36	ICE BIN BASE 36"	B-510	MANITOC
13	RANGE, STANDARD STD OVEN 36", 6AS	6TB624-AB24	GARLAND	37	SODA FOUNTAIN DISPENSER, COUNTERTOP	DI-2323 (6 VALVE)	PEPSI COLA
14	CONVECTION RANGE, STD OVEN 36", 6AS	636-6R-C	GARLAND	38	SPLASH GUARD, 5.5, 24"x14" BOLTED	T-PS-18D	ADVANCE TABCO
15	TABLE, PREP 5.5, W/ SINK 48"	6005T3048LPT (RT)	REGENCY	39	MOP SINK		
16	CHAR BROILER 24", 6AS	6TB624	GARLAND	40	CHIP WARMER, HEATED HOLDING	VCD26	VULCAN
17	FRYER, FULL BASKET 18", 6AS	65G15	PITCO	41	REFRIGERATOR, REACH-IN 56L 215"	NLR23-5	NORLAKE
18	CABINET, HEATED HOLDING/PROOFING 20.3"	ITTH1836	AVANTCO	42	WORK TABLE 30"x60"	600T30T26	REGENCY
19	REFRIGERATOR, CHEF BASE 12"	NLCBT2	NORLAKE	43	REFRIGERATOR, REACH-IN DBL 55"	NLR44-5	NORLAKE
20	FREEZER, WALK-IN 8 X 6	COMBINATION BOX	KOLPAK	44	30"x30" TABLE, CHIP STORAGE AREA		
21	COOLER, WALK-IN 8 X 14	T-4" X 14-4"		45	CART, CAN STORAGE	CSR-4	CHANNEL MFG
22	SHELVING, WIRE 18" X 12"		REGENCY	46	TRASH CAN LARGE		
23	SHELVING, WIRE 18" X 48"		REGENCY				
24	SHELVING, WIRE 30" X 60"		REGENCY				

- NOTES:
- INTERIOR DIMENSIONS SHOWN ARE STUD TO STUD UNLESS OTHERWISE NOTED.
 - EXCEPT WHERE NOTED OTHERWISE, INTERIOR WALLS ARE 20 GA 3-5/8" X 10' METAL STUDS AT 16" O.C. WITH 5/8" SHEETROCK EACH SIDE.
 - DEPCTS DOOR NUMBER (100)
 - PAINT BATHROOM WALLS TO 48" ABOVE FF WITH EPOXY PAINT OR PROVIDE WASHABLE WALL COVERINGS.



1 DIMENSIONED FLOOR PLAN
SCALE 1/4" = 1' - 0"



REVISIONS

11-29-22	DR. 108, GR. COUNTER

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6743-6749 OVERHILLS ROAD
SPRING LAKE, NC
DIMENSIONED FLOOR PLAN

DATE: NOV 2022
DRAWN BY: GMR
CHECKED: GMR
SCALE: NOTED

SHEET NO.
G2

PLUMBING NOTES:
PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA PLUMBING CODE 2018 EDITION AND LOCAL CODES.

ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE GENERAL CONTRACTOR AND OWNER TO SUIT THE OWNER'S OPERATING CONDITIONS.

PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE GENERAL CONTRACTOR OF ANY DEVIANCES FROM THE CONTRACT DRAWINGS PRIOR TO STARTING ANY WORK.

THE PLUMBING CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACES. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:
1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE PLUMBING CONTRACTOR TO ORGANIZE HIS PIPING IN ATTIC SPACES, CRAWL SPACES, AND ABOVE CEILINGS, MAKE RUNS PARALLEL, PERPENDICULAR, AND GROUPED TOGETHER WHERE POSSIBLE. LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS IF POSSIBLE. FREE RUNS OF PIPING IS NOT ACCEPTABLE.

THE PLUMBING CONTRACTOR SHALL LAY OUT AND INSTALL HIS WORK IN ADVANCE OF POURING CONCRETE FLOORS OR WALLS. HE SHALL FURNISH ALL SLEEVES TO THE GENERAL CONTRACTOR FOR OPENINGS THROUGH POURED MASONRY FLOORS, OR WALLS, ABOVE GRADE REQUIRED FOR PASSAGE OF ALL PIPES TO SUPPORT HIS EQUIPMENT.

HORIZONTAL DRAINAGE AND WASTE PIPE SHALL HAVE A MINIMUM SLOPE OR FALL OF 1/8" PER FOOT. ALL CHANGE OF HORIZONTAL DIRECTIONS IN SOIL WASTE PIPE SHALL BE MADE WITH LONG RADIUS FITTINGS WITH "Y" BRANCHES AND 1/8" OR 1/16" BENDS. CHROME PLATED ESCUTCHEONS SHALL BE PROVIDED AT EACH WALL PENETRATION.

ESCUTCHEONS SHALL BE CHROME PLATED, SPRING TYPE, ON ALL PIPES PASSING THROUGH WALLS AND CEILINGS IN FINISHED AREAS. FLOOR ESCUTCHEONS SHALL BE CAST BRASS, CHROME PLATED, WITH SET SCREWS. ESCUTCHEONS SHALL BE OF SUFFICIENT SIZE TO COVER OUTSIDE DIAMETER OF THE PIPE OR THE INSULATION OF THE PIPE.

FLASHING FOR VENTS THROUGH THE ROOF SHALL BE TWO-PIECE TYPE, 16 GAUGE COPPER, COUNTER FLASHING AND BASE FLASHING, OR A TWO-PIECE TYPE, 4 POUND LEAD COUNTER FLASHING AND BASE FLASHING. THE BASE FLASHING SHALL BE INSTALLED BY THE GENERAL CONTRACTOR WITH THE ROOF SYSTEM.

VENT FLASHING SHALL EXTEND DOWN AT LEAST 4 INCHES FROM THE TOP OF THE PIPE. FLASHING SHALL EXTEND AT LEAST 12 INCHES IN ALL DIRECTIONS FROM THE PIPE AND SHALL BE PARALLEL TO THE ROOF LINE.

ALL EQUIPMENT AND INSTALLED MATERIALS SHALL BE THOROUGHLY CLEAN AND FREE OF ALL DIRT, OIL, GRIT, GREASE, AND ETC.

ALL PLUMBING SYSTEMS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING FROM THE OWNER.

COLD AND HOT WATER PIPING ABOVE GRADE SHALL BE POLYETHYLENE TUBING CONFORMING TO ASTM D3035 WITH APPROVED FITTINGS (JUNCTIONS, STRAINERS, ETC.).

ALL HOT WATER PIPING SHALL BE INSULATED WITH 1 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

SANITARY HORIZONTAL WASTE VENT PIPING AND FITTINGS ABOVE GRADE SHALL BE SCHEDULE 40 PVC-DWV PIPE-CELLULAR CORE FROM CHARLOTTE PIPE AND FOUNDRY COMPANY OR APPROVED EQUAL, AND MUST MEET OR EXCEED THE REQUIREMENTS OF ASTM F-891, NSF STANDARD NO. 14, AND IAPMO UPC.

ALL WASTE STACK PIPING SHALL BE CAST IRON AND INSULATED FOR SOUND IN WALLS.

ALL WASTE AND STORM PIPING ABOVE CEILING, VERTICAL CHASES, WALLS SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE. NO INSULATION REQUIRED IN CRAWL SPACE OR BELOW FLOOR SLAB OF ANY WASTE AND STORM PIPING.

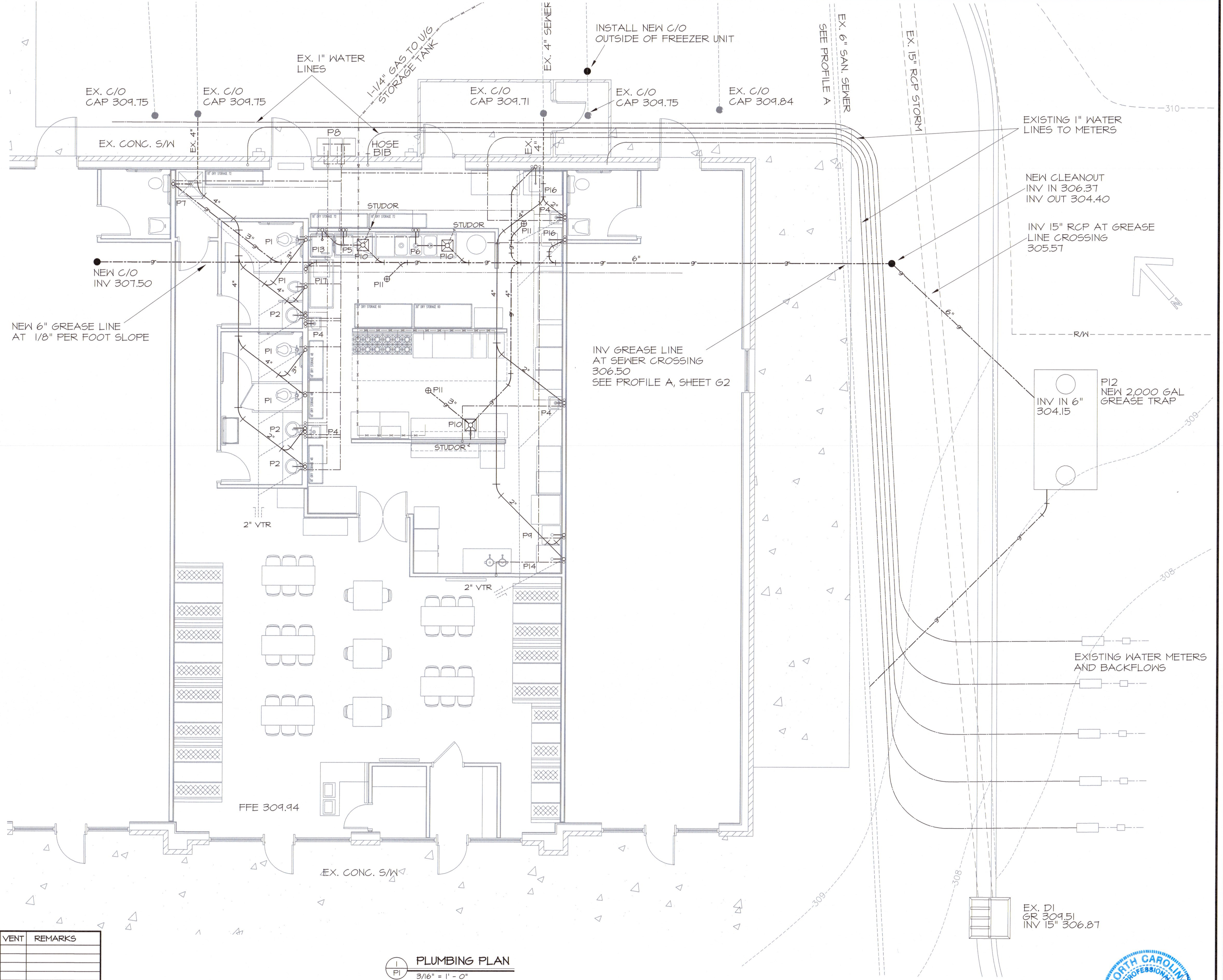
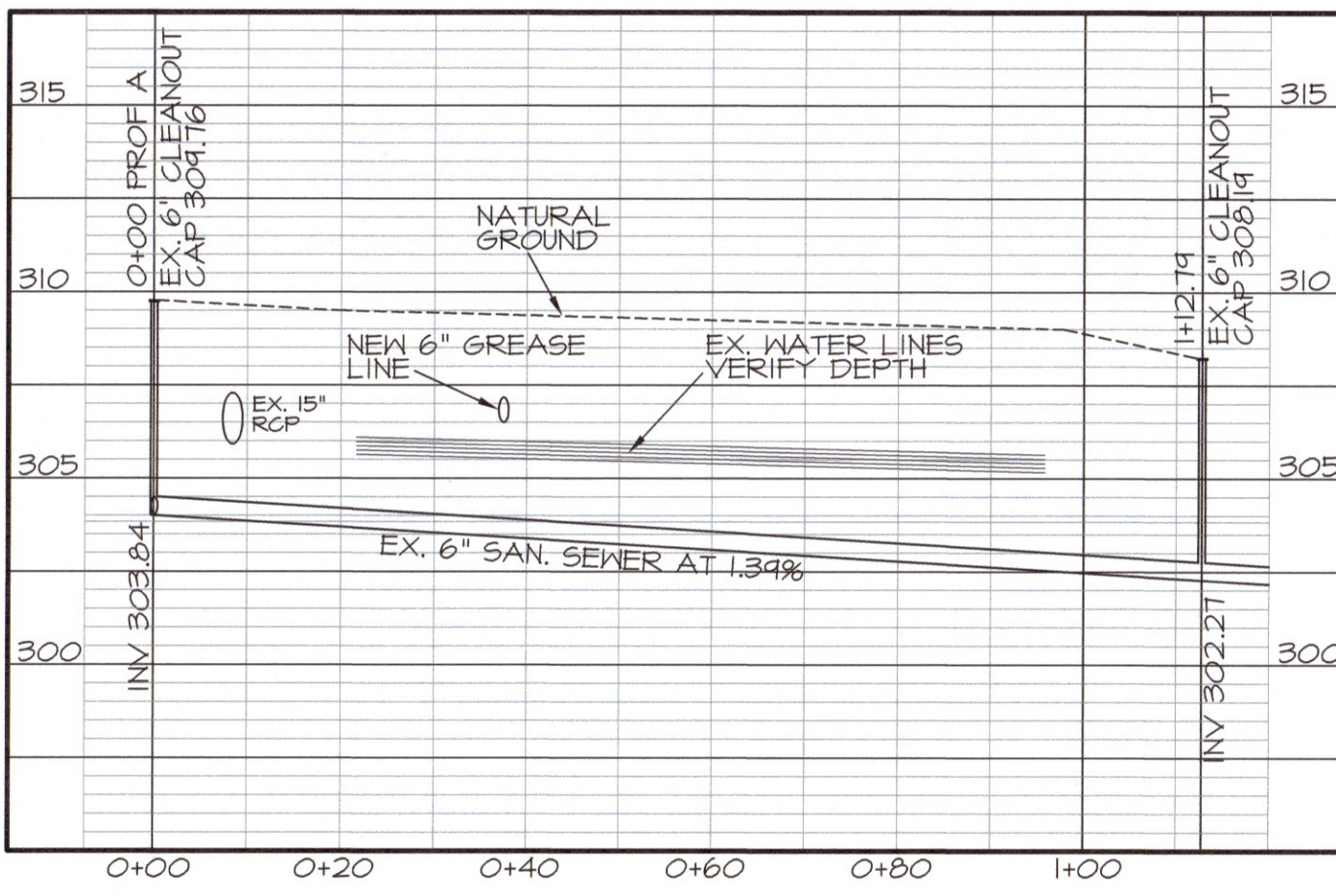
IN LIEU OF FIBERGLASS INSULATION, THE PLUMBING CONTRACTOR IS ALLOWED TO USE CLOSED CELL INSULATION 1/2 INCH THICK ARISTON/ARMAFLEX II ON ALL COLD WATER PIPES, RIGID URETHANE FOAM INSULATION, 1 INCH THICK ARISTON/ARMAFLEX II ON ALL HOT WATER PIPING.

ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ALL FIXTURES, DRAINS, TRAPS, ETC. SHALL BE SET PLUMB AND LEVEL.

ALL HANDICAPPED FIXTURES AND TRIM SHALL BE INSTALLED IN ACCORDANCE WITH THE NORTH CAROLINA PLUMBING CODE 2018 EDITION.

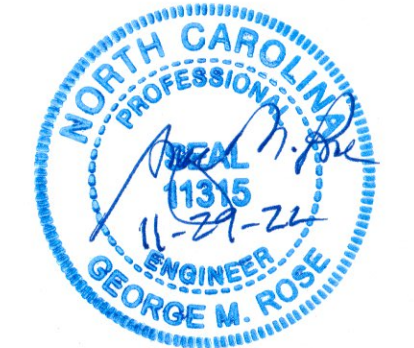
PROFILE A
SCALE 1" = 3' VERT
SCALE 1" = 20' HORIZ



PLUMBING PLAN
3/16" = 1' - 0"

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANUFTR	MODEL #	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
—	GATE VALVE							
—	COLD WATER PIPE							
—	HOT WATER PIPE							
—	VENT THROUGH ROOF							
—	STUDOR VENT							
—	VENT PIPE							
—	PROPOSED NEW SANITARY SEWER							
—	EXISTING SANITARY SEWER PIPE							
—	PROPOSED NEW GREASE WASTE							
P1	TOILET WITH TANK (ADA)	EXISTING			3/4" C.K.	3"	2"	SEE PLAN FOR LOCATION
P2	WALL HUNG LAVATORY	EXISTING			3/4" C.K.	3"	2"	SEE PLAN FOR LOCATION
P3	URINAL	HANFIELD	475	SLOANE 106XL FLUSH VALVE	1/2" H.K. C.K.	3"	2"	SEE PLAN FOR LOCATION
P4 (3)	HAND WASH SINK	EAGLE	HS-10-F-LRS		1/2" H.K. C.K.	2"	1-1/2"	SEE PLAN FOR LOCATION
P5 (26)	SOILED DISHTABLE WITH SINK	EAGLE	BPSDT-46L-16/9		1/2" H.K. C.K.	3"	1-1/2"	SEE PLAN FOR LOCATION
P6 (3)	THREE COMPARTMENT SINK	EAGLE GROUP	516-20-9-18		1/2" H.K. C.K.	3"	1-1/2"	SEE PLAN FOR LOCATION
P7 (34)	CAN WASH/POP SINK	SHAN	95-9636	MS-5011 FAUCET, MS-2497 HANGER	1/2" H.K. C.K.	3"	2"	SEE PLAN FOR LOCATION
P8	TANKLESS HOT WATER HEATERS	RENNAI	CUH8EN		1" C.K.	-	-	SEE PLAN FOR LOCATION
P4 (37)	FOUNTAIN BEVERAGE DISPENSER	PEPSI COLA	DI-2823 (6 VALVE)		1/2" C.K.	2"	1-1/2"	HUB DRAIN
P10	FLOOR SINK	JONES STEPHENS	344-014		-	2"	1-1/2"	SEE PLAN FOR LOCATION
P11	FLOOR DRAIN	SIOUX CHEF	882	RD NICKEL-BRONZE RING/STRAINER	-	3"	-	SEE PLAN FOR LOCATION
P12	GREASE TRAP - 1500 GALLON				-	4"	-	SEE PLAN FOR LOCATION
P13 (28)	DISHWASHER	AUTO-CLOR	A4 WATER SAVER		1/2" H.K. C.K.	2"	1-1/2"	SEE PLAN FOR LOCATION
P14	ICE MAKER WITH BIN	HOSHIZAKI	KH-320H4H		1/2" H.K. C.K.	2"	1-1/2"	HUB DRAIN
P15	ICE BIN	BY OWNER			1/2" C.K.	2"	1-1/2"	HUB DRAIN
P16 (15)	PREP TABLE WITH SINK	REGENCY	600S1304DLT		1/2" H.K. C.K.	2"	1-1/2"	SEE PLAN FOR LOCATION
P17 (25)	CLEAN DISHTABLE WITH SINK	EAGLE	BPCDT-60R-16/9		1/2" H.K. C.K.	2"	1-1/2"	SEE PLAN FOR LOCATION



REVISIONS

11-23-22	WATER AT BEV DISP

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EL BURRITO MEXICAN RESTAURANT
6743-6749 OVERHILLS ROAD
SPRING LAKE, NC
PLUMBING PLAN

DATE: NOV 2022
DRAWN BY: GMR
CHECKED: GMR
SCALE: NOTED

SHEET NO.
P1

REVISIONS
11-24-22 WATER AT BEV DISP

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 6743-6749 OVERHILLS ROAD
 SPRING LAKE, NC
PLUMBING PLAN

DATE: NOV 2022

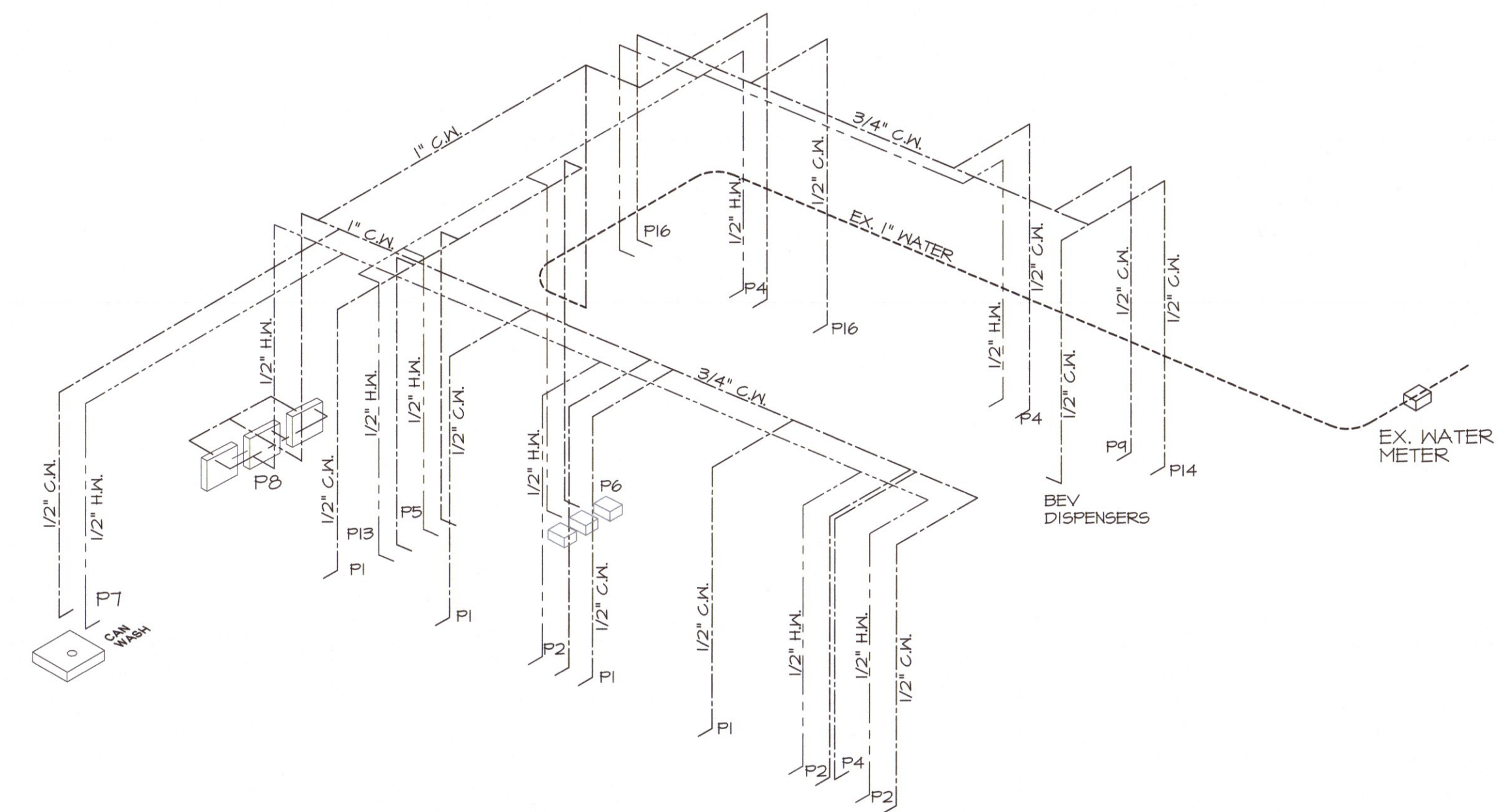
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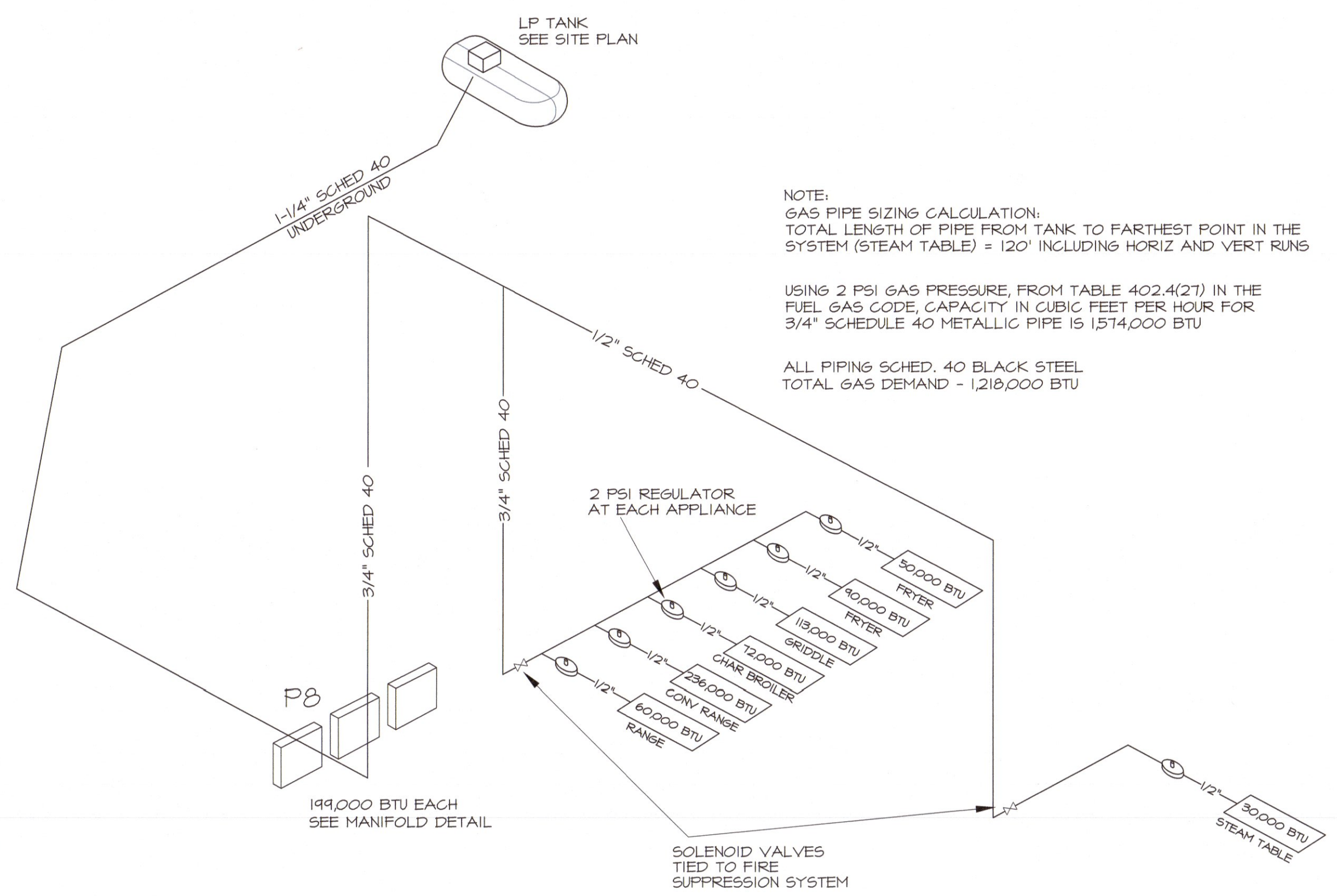
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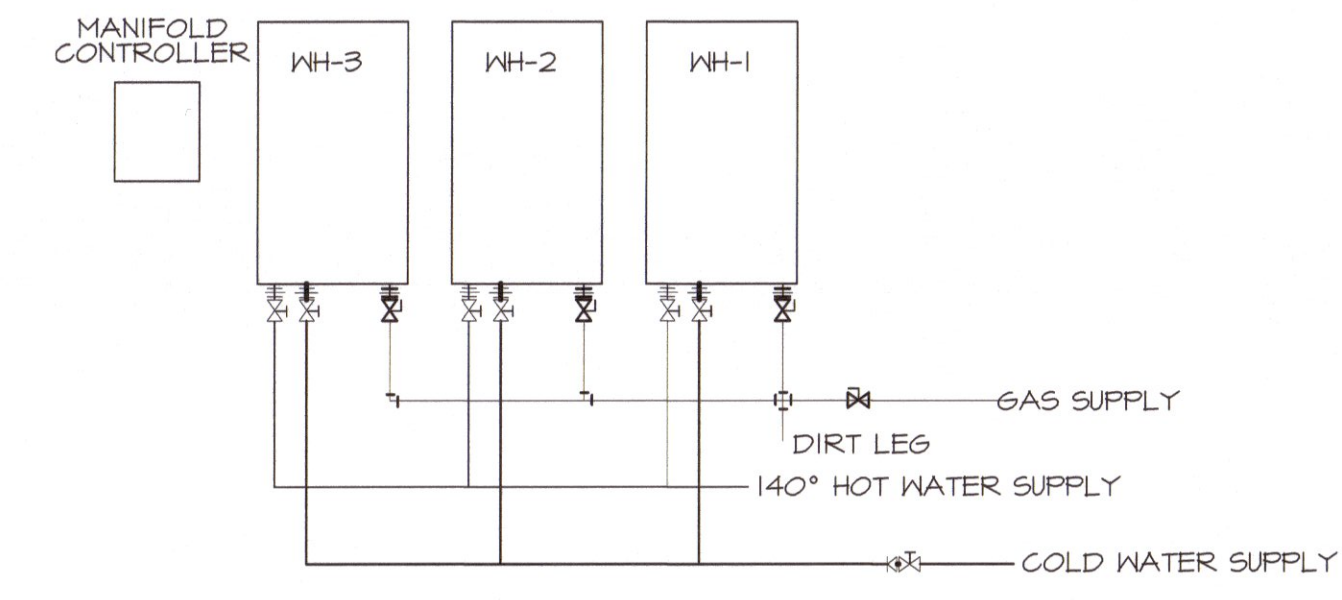
P2



2 WATER RISER
NO SCALE

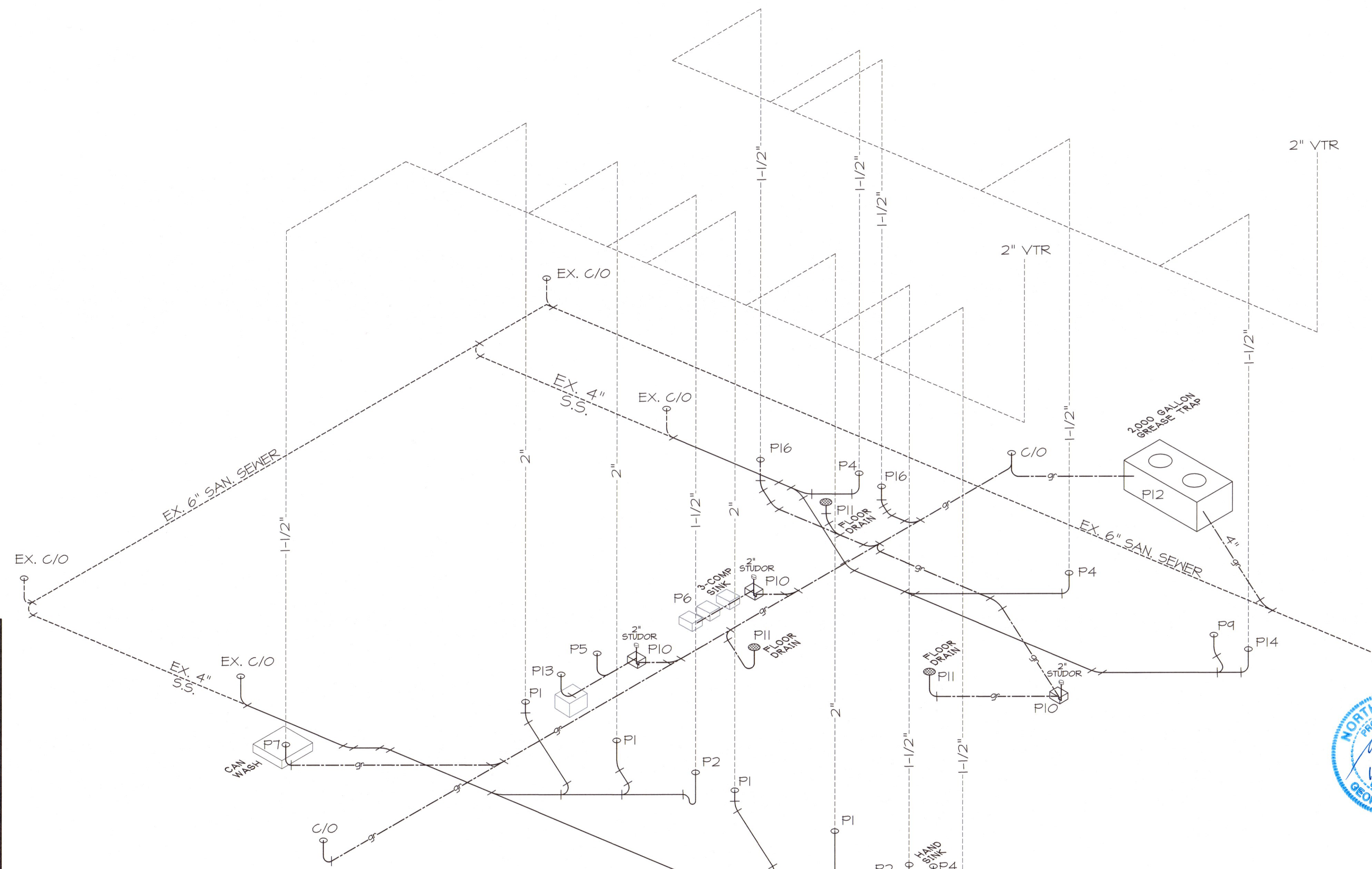


3 GAS RISER
NO SCALE



4 WATER HEATER MANIFOLD
NO SCALE

ACTUAL PIPING MAY BE REVERSED TO SUIT CONDITIONS IN THE FIELD.



1 WASTE/VENT RISER
NO SCALE

PLUMBING FIXTURE SCHEDULE								
SYMBOL	DESCRIPTION	MANUFTR	MODEL #	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
⊞	GATE VALVE							
—	COLD WATER PIPE							
—	HOT WATER PIPE							
⋈	VENT THROUGH ROOF							
—	STUDOR VENT							
—	VENT PIPE							
—	PROPOSED NH SANITARY SEWER							
—	EXISTING SANITARY SEWER PIPE							
—	PROPOSED NH GREASE WASTE							
P1	TOILET WITH TANK (ADA)	EXISTING			3/4" C.H.	3'	2"	SEE PLAN FOR LOCATION
P2	HALL HUNG LAVATORY	EXISTING			3/4" C.H.	3'	2"	SEE PLAN FOR LOCATION
P3	URINAL	HANSFIELD	475	SLOANE 186XL FLUSH VALVE	1/2" H.H. C.H.	3'	2"	SEE PLAN FOR LOCATION
P4 (5)	HAND WASH SINK	EAGLE	HSA-10-F-LR5		1/2" H.H. C.H.	2'	1-1/2"	SEE PLAN FOR LOCATION
P5 (26)	SOILED DISHWASH WITH SINK	EAGLE	BP50T-48L-16/3		1/2" H.H. C.H.			SEE PLAN FOR LOCATION
P6 (3)	THREE COMPARTMENT SINK	EAGLE GROUP	S16-20-3-16		1/2" H.H. C.H.	3'	1-1/2"	SEE PLAN FOR LOCATION
P7 (34)	CAN WASH/NOB SINK	SHAN	55-3636	MS-5811 FAUCET, MS-2437 HANGER	1/2" H.H. C.H.	3'	2"	SEE PLAN FOR LOCATION
P8	TANKLESS HOT WATER HEATERS	RENNAI	CUMREN		1" C.H.			SEE PLAN FOR LOCATION
P4 (37)	FOUNTAIN BEVERAGE DISPENSER	PEPSI COLA	DI-2923 18 VALVE		1/2" C.H.	2'	1-1/2"	HUB DRAIN
P10	FLOOR SINK	JONES STEPHENS	844-C144			2'	1-1/2"	SEE PLAN FOR LOCATION
P11	FLOOR DRAIN	SIXIX CHEF	892	RD NICKEL-BRONZE RING/STRAINER		3'		SEE PLAN FOR LOCATION
P12	GREASE TRAP - 1500 GALLON					4'		SEE PLAN FOR LOCATION
P13 (26)	DISHWASHER	AUTO-CLOR	A4 WATER SAVER		1/2" H.H. C.H.	2'	1-1/2"	SEE PLAN FOR LOCATION
P14	ICE MAKER WITH BIN	HOSHIZAKI	ICM-320MAH		1/2" H.H. C.H.	2'	1-1/2"	HUB DRAIN
P15	ICE BIN	BY OWNER			1/2" C.H.	2'		HUB DRAIN
P16 (15)	PREP TABLE WITH SINK	REGENCY	6005T3048LFT		1/2" H.H. C.H.	2'	1-1/2"	SEE PLAN FOR LOCATION
P17 (25)	CLEAN DISHWASH WITH SINK	EAGLE	BPCDT-6CR-16/3		1/2" H.H. C.H.	2'	1-1/2"	SEE PLAN FOR LOCATION



ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 NC MECHANICAL CODE.

ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED. ALL SUPPLY AND RETURN DUCTS AND FLEX SHALL BE INSULATED WITH MIN. R-8.0 INSULATION UNLESS OTHERWISE NOTED IN THE DRAWING.

ALL EXPOSED ROUND DUCT SHALL BE DOUBLE WALL INSULATED, EXPOSED RECTANGULAR DUCT SHALL BE INTERNALLY LINED WITH INSULATION.

ALL DUCTS SHALL BE AIR TIGHT, RIGID AND FREE FROM VIBRATION AND NOISE. ALL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW. VOLUME OR SPLITTER DAMPERS SHALL BE INSTALLED WHERE NECESSARY TO GUIDE AND CONTROL THE AIR FLOW. PROVIDE SHEET METAL SLEEVES AND COLLARS WHERE DUCTS PASS THROUGH WALLS.

STRUCTURAL MEMBERS OF THE BUILDING SHALL NOT BE CUT IN ANY MANNER FOR THE INSTALLATION OF ANY EQUIPMENT UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ARCHITECT.

MECHANICAL CONTRACTOR TO CONFIRM BREAKER/DISCONNECT SIZES OF HIS EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.

FURNISH AND INSTALL A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN DUCT OF THE A/C UNIT IN ACCORDANCE WITH 2018 NC MECHANICAL CODE. THE DETECTOR SHALL BE WIRED TO SHUT DOWN THE FAN IN THE EVENT THE DETECTOR IS ACTIVATED. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THE DUCT DETECTOR AND RUN THE NECESSARY CONTROL WIRING FROM THE DETECTOR TO HIS EQUIPMENT. SMOKE DETECTORS ARE ONLY REQUIRED FOR UNITS SUPPLYING 2000 CFM OR MORE.

MECHANICAL CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT SYSTEM COMPLIANCE STATEMENT REQUIRES A WRITTEN TAB REPORT. FINAL PROJECT SIGNOFF WILL BE DENIED WITHOUT THIS REPORT.

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK WITH OTHER TRADES TO AVOID CONFLICTS.

ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER. ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING NORMAL OPERATIONS UNDER THIS GUARANTEE SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

BUILDING CONTRACTOR SHALL PROVIDE PERMANENT ACCESS TO ROOF STRUCTURE FOR ACCESS TO MECHANICAL EQUIPMENT WHEN ROOF STRUCTURE IS GREATER THAN 16'-0" HIGH.

1 HVAC NOTES
N.T.S.

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone **3A-CUMBERLAND**

winter dry bulb:	27'
summer dry bulb:	91'

Interior design conditions

winter dry bulb:	75'
summer dry bulb:	75'
relative humidity:	50%

Building heating load:

111,277 BTU

Building cooling load:

77,293 BTU

Mechanical Spacing Conditioning System

Unitary

description of unit:	SINGLE PACKAGED HEAT PUMP
heating efficiency:	HSPF-8.0
cooling efficiency:	SEER-14.0
size category of unit:	<65,000 BTU/H

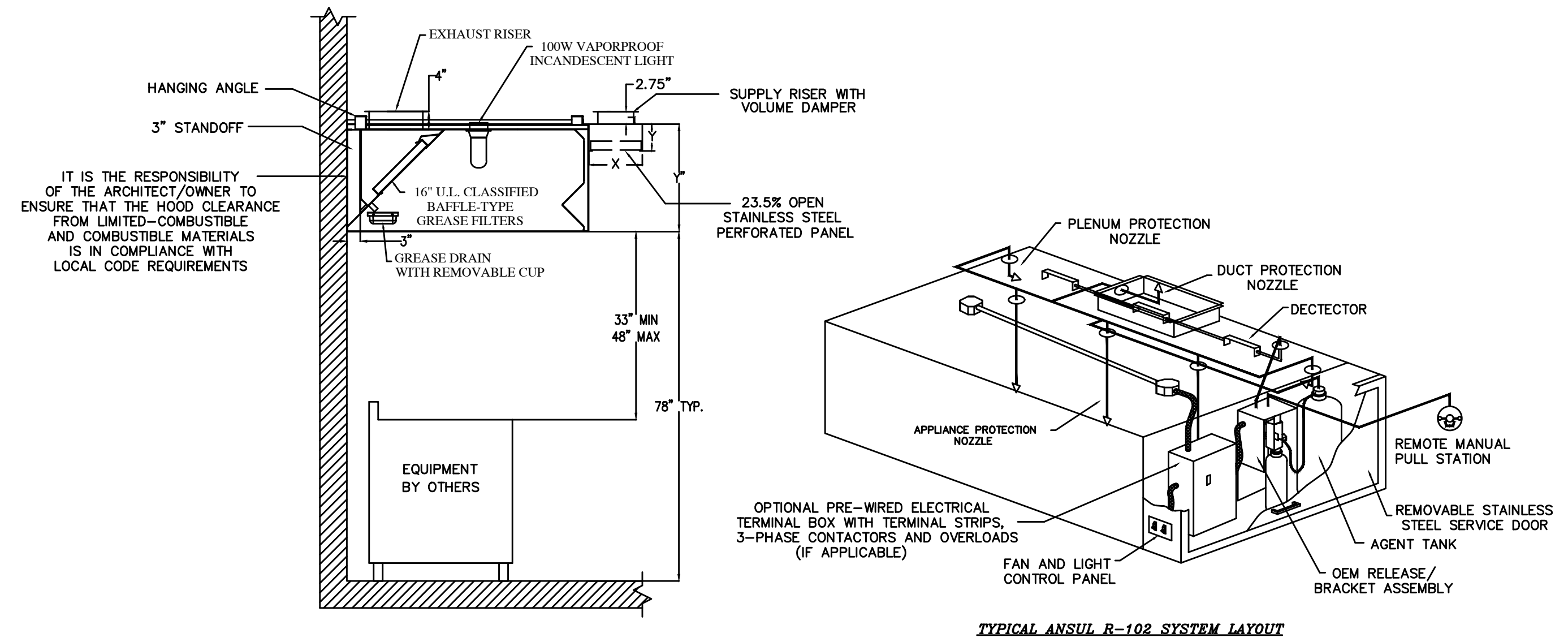
Boiler

Size category. If oversized, state reason: _____

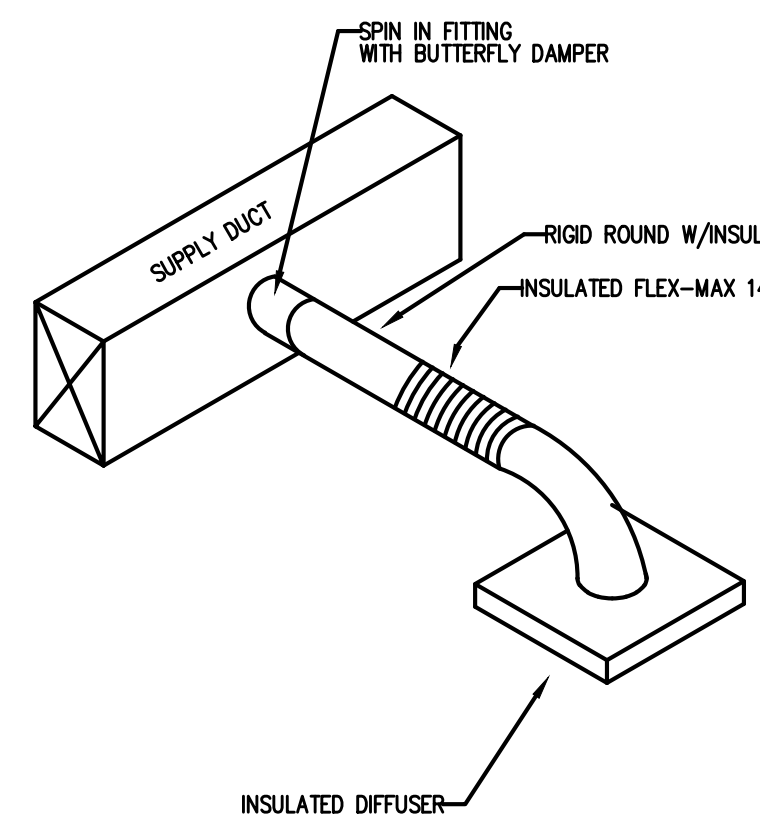
Chiller

Size category. If oversized, state reason: _____

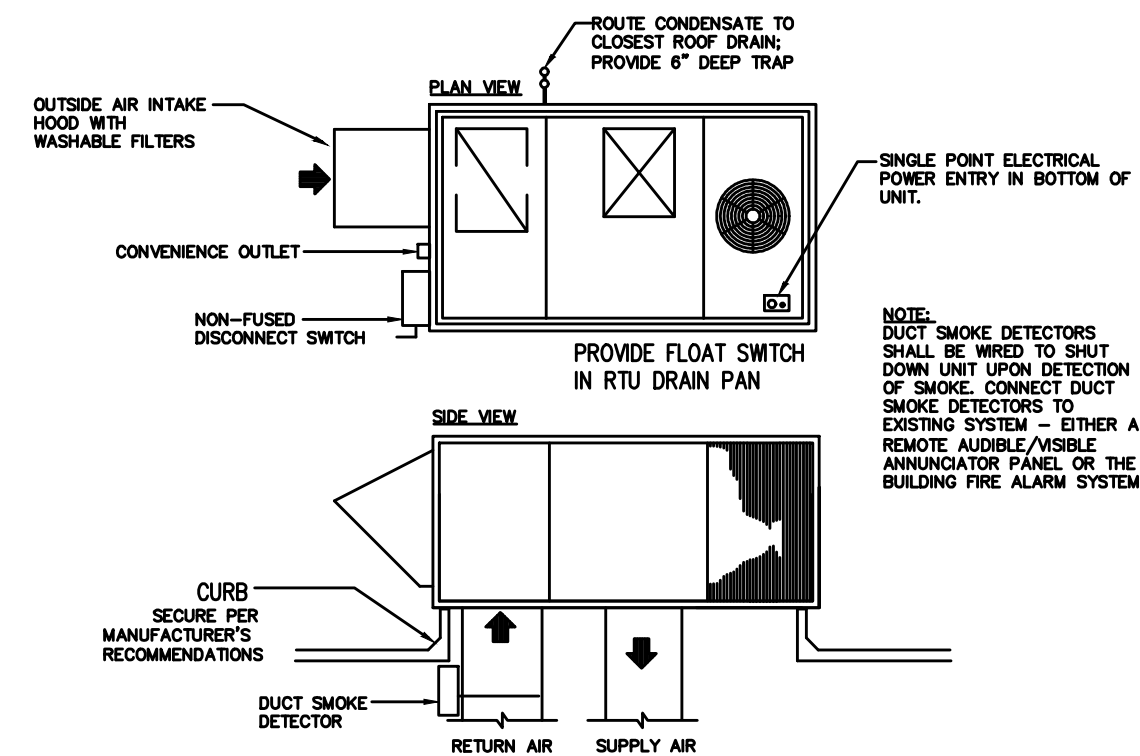
List equipment efficiencies: _____



2 KITCHEN HOOD DETAILS
N.T.S.



3 DIFFUSER TAKEOFF DETAIL
N.T.S.



4 PACKAGE UNIT DETAIL
N.T.S.

OUTSIDE AIR CALCULATION -2018 NC MECHANICAL CODE (TABLE 403.3) $V_{bz} = R_p P_z + R_o A_z$

RTU-1,2	OCUPANCY TYPE:	SF (Az)	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SF (Ro)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED
		WOMEN	131	-	-	-	-
	MEN	91	-	-	-	-	140
	DINING AREA	1144	80	7.5	0.18	806	-
	OFFICE	37	1	5	0.06	8	-
	HALL	110	-	-	0.06	7	-
	AIRLOCK	50	1	5	0.06	8	-
						TOTAL CFM REQUIRED 829	TOTAL EXHAUST REQUIRED 280
						TOTAL O.A. CFM FURNISHED 829	TOTAL EXHAUST FURNISHED 280
RTU-3	OCUPANCY TYPE:	SF (Az)	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SF (Ro)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED
	STORAGE	233	-	-	0.12	42	-
	KITCHEN	853	-	-	-	-	597
						TOTAL CFM REQUIRED 42	TOTAL EXHAUST REQUIRED 597
						TOTAL O.A. CFM FURNISHED 300	TOTAL EXHAUST FURNISHED (HOOD)



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License No. C-2089

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www.coastalplainseng.com

EL BURRITO
MEXICAN RESTAURANT

6743 OVERHILLS ROAD
SPRING LAKE, NORTH CAROLINA

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PROJECT NO: 2022-157
DRAWN BY: WJ/ML
DATE: CSL
REVISIONS: 11-18-22

SHEET NO:
M-1



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License No. C-2009

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EL BURRITO
MEXICAN RESTAURANT

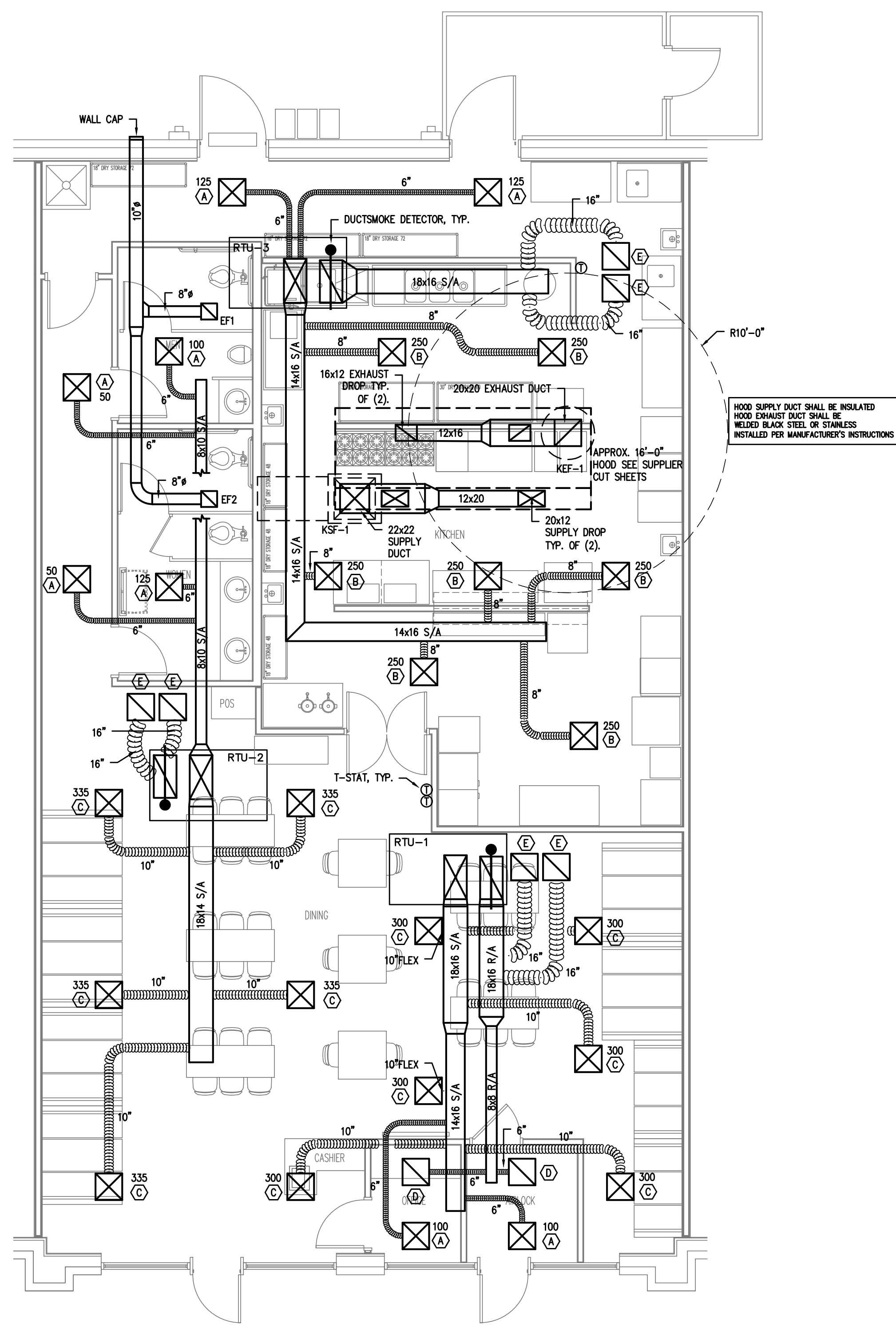
6743 OVERHILLS ROAD
SPRING LAKE, NORTH CAROLINA

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PROJECT NO: 2022-157
DRAWN BY: WJ/JML
DATE: CSL
REVISIONS: 11-18-22

SHEET NO:
M-2



1 HVAC PLAN
M2 3/16"=1'

HOOD FAN SCHEDULE

MARK	LOCATION	SERVICE	CFM	S.P.	HP	RPM	VOLT	PHASE	DRIVE	REMARKS
KEF1	ROOF	HOOD	3933	1.0"	1.39	1271	208	1	BELT	ROOF MTD. EXHAUST FAN CAPTIVEAIRE NCA16FA VERIFY WITH SUPPLIER
KSF1	ROOF	HOOD	3147	.75"	1.18	796	208	1	BELT	ROOF MTD. MAKEUP FAN CAPTIVEAIRE A2-G12 VERIFY WITH SUPPLIER

ROOFTOP UNIT SCHEDULE

UNIT NO.	TOTAL CFM	O.A. CFM	EXT. S.P.	EVAP. FAN HP	COMPRESSOR AMPS	NO. OF COMPR.	FAN AMPS	NO. OF FANS	UNIT MCA	UNIT MOCP	UNIT VOLT	UNIT PHASE	CAPACITIES				REMARKS	REFRIG.	UNIT NET WEIGHT
													GROSS COOLING	SEER	HEATING HIGH	HEATING LOW			
RTU-1	2000	415	0.50"	1.0	17.5	1	1.5	1	63	70	208	3	61,000	14.0	59,000	35,000	TRANE WSC060H3 SINGLE PACKAGED CONVERTIBLE HEAT PUMP WITH 9KW STRIPS GFI RECEPT	R410A	425 LBS.
RTU-2	2000	415	0.50"	1.0	17.5	1	1.5	1	63	70	208	3	61,000	14.0	59,000	35,000	TRANE WSC060H3 SINGLE PACKAGED CONVERTIBLE HEAT PUMP WITH 9KW STRIPS GFI RECEPT	R410A	425 LBS.
RTU-3	2000	300	0.50"	1.0	17.5	1	1.5	1	63	70	208	3	61,000	14.0	59,000	35,000	TRANE WSC060H3 SINGLE PACKAGED CONVERTIBLE HEAT PUMP WITH 9KW STRIPS GFI RECEPT	R410A	425 LBS.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	RECTANGULAR CEILING MOUNTED S/A DIFFUSER
	RECTANGULAR CEILING MOUNTED R/A OR EXHAUST GRILLE
	RUNNOUT TO DIFFUSER W/VOLUME DAMPER AND CONE EXTRACTOR
	90 DEG. ELBOW W/ TURNING VANES
---C---	CONDENSATE DRAIN PIPING
---R---	REFRIGERANT PIPING
	HEATING AND COOLING THERMOSTAT. MOUNT 5'-0" A.F.F. AUTOMATIC CHANGEOVER.
	SYSTEM EMERGENCY SHUT-OFF SWITCH (RED LABELED)
	DUCT SMOKE DETECTOR - FURNISHED BY M.C., INSTALLED BY M.C., WIRED BY M.C.
S/A	SUPPLY AIR
R/A	RETURN AIR
O/A	OUTSIDE AIR
S/D	SPLITTER DAMPER
M.D.	MANUAL DAMPER WITH LOCKING QUADRANTS
B.D.D.	BACKDRAFT DAMPER
A.F.F.	ABOVE FINISHED FLOOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
	CEILING FIRE/RADIATION DAMPER
	VERTICAL FIRE DAMPER
	DUCTSMOKE DETECTOR

FAN SCHEDULE

MARK	LOCATION	SERVICE	CFM	S.P.	WATTS	RPM	VOLT	PHASE	DRIVE	REMARKS
EF1	CEILING	TOILETS	140	0.1"	128	1050	120	1	DIRECT	CEILING MOUNTED FAN. PROVIDE W/B.D.D. AND WALL CAP GREENCHECK SP-B150 OR EQ. 8" FLEX TO ROOF/WALL CAP
EF2										

AIR BALANCE SCHEDULE

ID	TOTAL AIR	RECIRC. AIR	O/S AIR	EXH. CFM	MUA
RTU-1	2000	1585	415		
RTU-2	2000	1585	415		
RTU-3	2000	1700	300		
HOOD EX.				3933	
HOOD SU.					3147
TOTALS				+1130	-3933
BUILDING PRESSURIZATION +355 CFM					

LAY-IN DIFFUSER/RETURN SCHEDULE

MARK ON PLANS	CFM	AIR PATTERN	NECK SIZE	RUNOUT SIZE	REMARKS
(A)	50-125	4 WAY	6 X 6	6"	PRICE SERIES ASCD OFF WHITE, ALUM.
(B)	150-275	4 WAY	8 X 8	8"	PRICE SERIES ASCD OFF WHITE, ALUM.
(C)	300-400	4 WAY	10 X 10	10"	PRICE SERIES ASCD OFF WHITE, ALUM.
(D)		N/A	12 X 12	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN
(E)		N/A	20 X 20	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN



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 SPRING LAKE, NORTH CAROLINA

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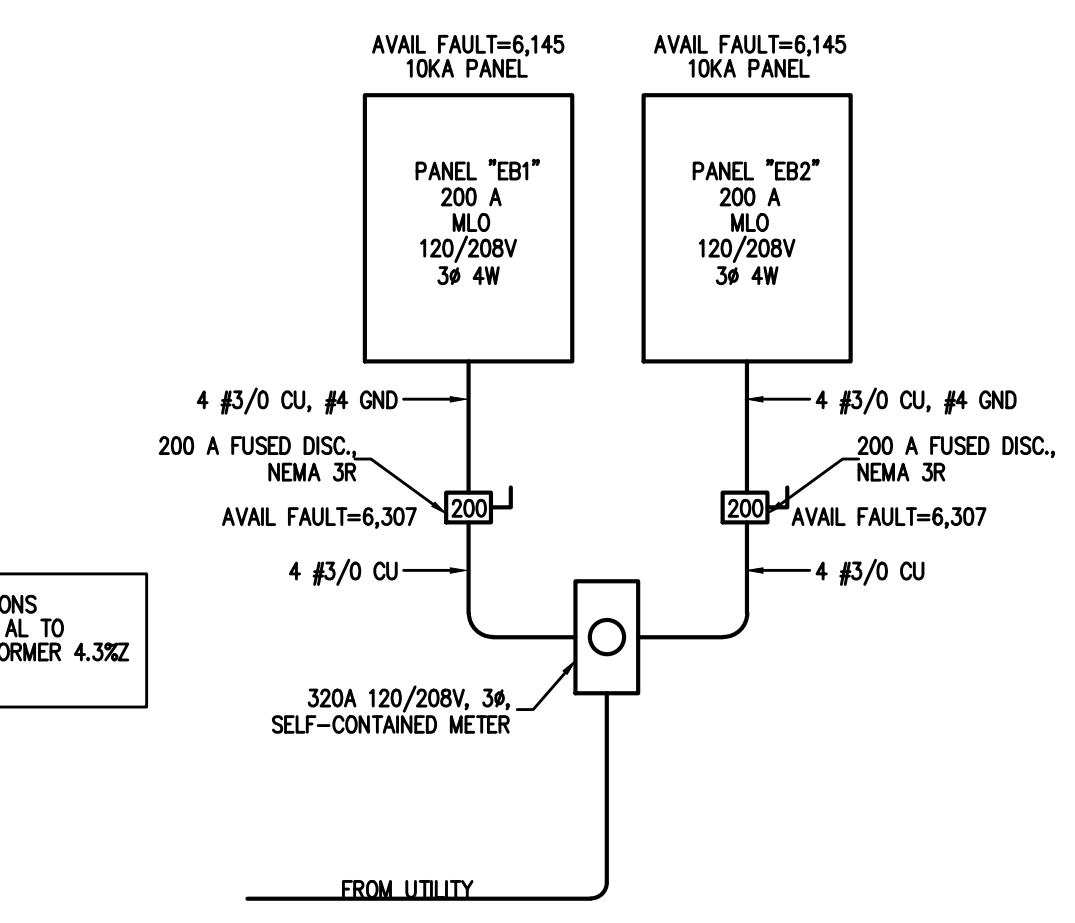
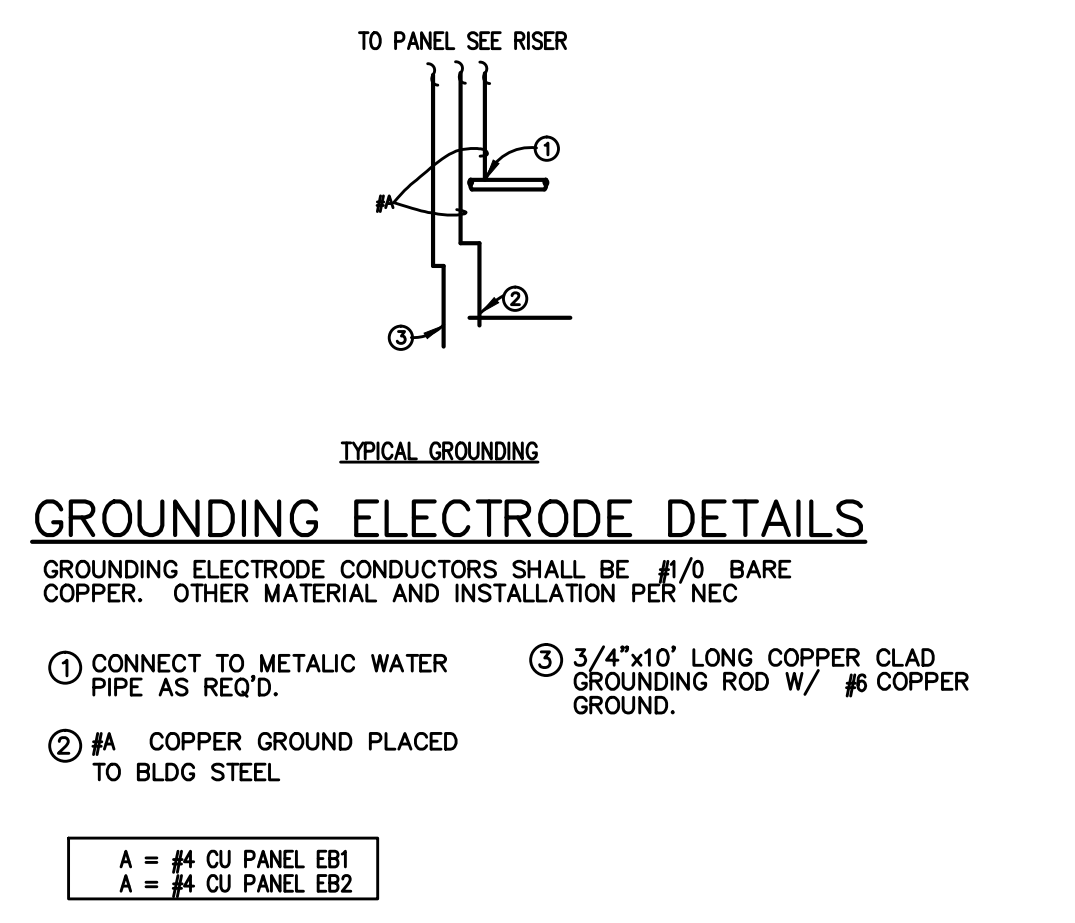
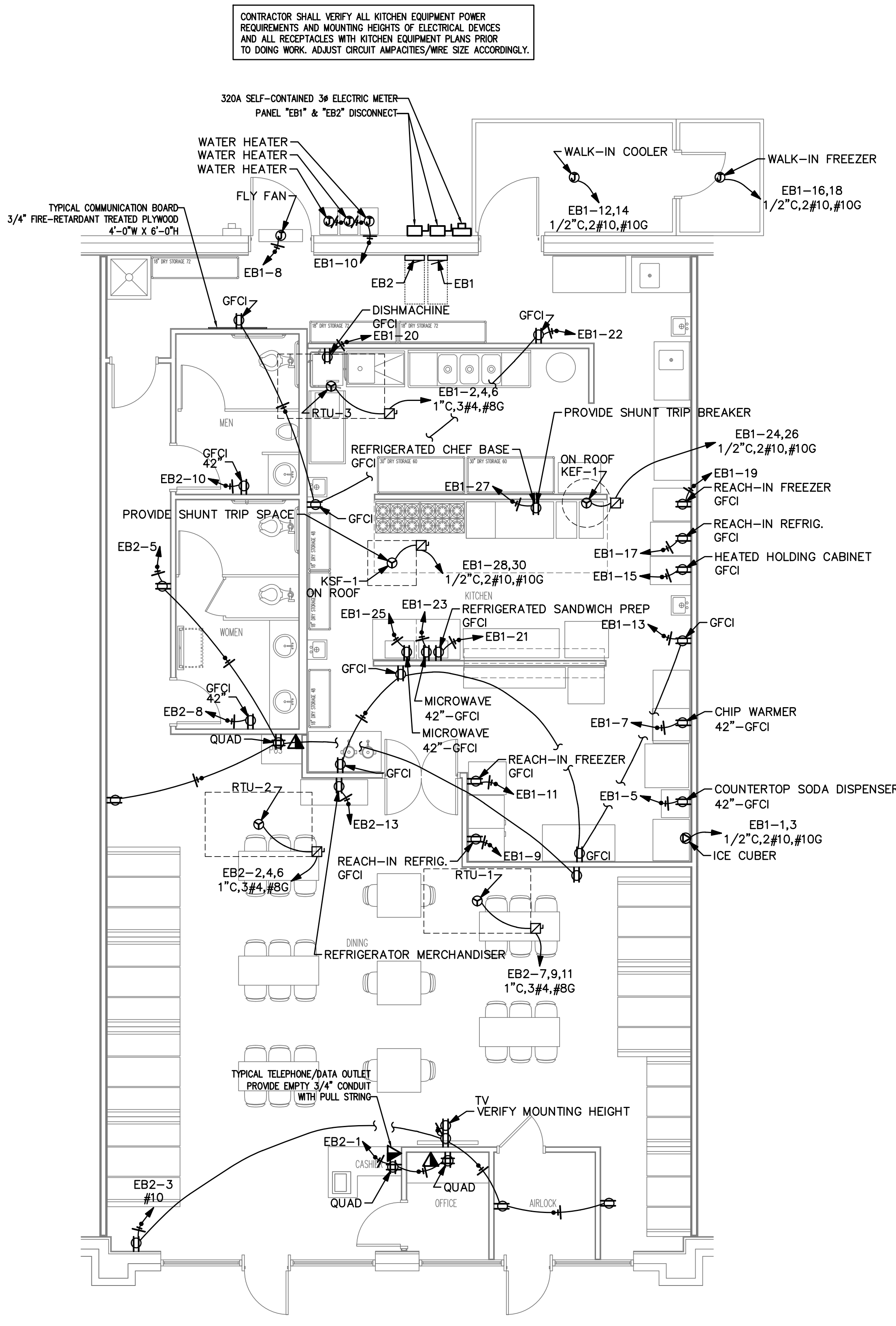
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PROJECT NO: 2022-157
 DRAWN BY: WJ/ML
 DATE: CSL
 REVISIONS: 11-18-22

SHEET NO: E-1

EB1			LOAD KVA			LOAD KVA					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	A	B	C
			1	15/2	ICE CUBER				1.22		
3				1.22		4					
5	20/1	COUNTERTOP SODA DISPENSER	1.5		0.384	6					5.86
7	20/1	CHIP WARMER		0.9		8	20/1	FLY FAN	0.528	1.44	
9	20/1	REACH-IN REFRIG.			1.02	10	20/1	WATER HEATER			2.04
11	20/1	REACH-IN FREEZER				12	20/2	WALK-IN COOLER	2.04	1.2	2.04
13	20/1	KITCHEN GFCI RECEPTACLE	0.72			14					
15	20/1	HEATED HOLDING CABINET		1.44		16	20/2	WALK-IN FREEZER		1.2	
17	20/1	REACH-IN REFRIG.			0.864	18					1.2
19	20/1	REACH-IN FREEZER	1.02			20	20/1	DISHMACHINE	1.92	0.54	
21	20/1	REFRIGERATED SANDWICH PREP		0.864		22	20/1	KITCHEN GFCI RECEPTACLE			
23	20/1	MICROWAVE			1.5	24	20/2	KEF-1	1.2		1.2
25	20/1	MICROWAVE	1.5			26					
27	20/1	REFRIGERATED CHEF BASE		0.396		28	20/2	KSF-1	1.2	1.2	1.2
29	-/1	SHUNT TRIP SPACE	0		0	30					1.2
31	20/1	SPACE	0			32	-/1	SHUNT TRIP SPACE	0		
33	20/1	SPACE		0		34	20/1	KITCHEN LIGHTING		1.04	
35	20/1	SPACE			0	36	20/1	SPACE			0
37	20/1	SPACE			0	38	20/1	SPACE			0
39	20/1	SPACE			0	40	20/1	SPACE			0
41	20/1	SPACE			0	42	20/1	SPACE			0
			TOTAL CONNECTED KVA BY PHASE						17.5	16.1	15.3
LIGHTING			CONN KVA	CALC KVA		KITCHEN EQUIPMENT			CONN KVA	CALC KVA	
LARGEST MOTOR			1.04	1.3	(125%)	NONCONTINUOUS			17.7	11.5	(65%)
MOTORS			6.3	1.58	(25%)	HEATING			6.48	6.48	(100%)
RECEPTACLES			4.8	4.8	(100%)	COOLING			17.6	17.6	(100%)
			1.26	1.26	(50%>10)	TOTAL LOAD			8.59	0	(0%)
						BALANCED 3-PHASE LOAD			44.5		
									124 A		

EB2			LOAD KVA			LOAD KVA					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	A	B	C
			1	20/1	CASHIER/OFFICE RECEPTACLE				0.72		
3	20/1	DINING/TV/AIRLOCK RECEPTACLE		0.9		4					
5	20/1	DINING/CORRIDOR RECEPTACLE			0.9	6					5.86
7	70/3	RTU-1	5.86			8	20/1	WOMEN'S TOILET GFCI RECEPTACLE	0.18		
9				5.86		10	20/1	MEN'S TOILET GFCI RECEPTACLE		0.18	
11					5.86	12	20/1	DINING/MEN/WOMEN/OFFICE/AIRLOCK EF-1, EF-2, LIGHTING			1.23
13	20/1	REFRIGERATOR MERCHANDISER	1.18			14	20/1	SPACE	0	0	0
15	20/1	SPACE		0		16	20/1	SPACE		0	0
17	20/1	SPACE		0		18	20/1	SPACE		0	0
19	20/1	SPACE		0		20	20/1	SPACE		0	0
21	20/1	SPACE		0		22	20/1	SPACE		0	0
23	20/1	SPACE		0		24	20/1	SPACE		0	0
25	20/1	SPACE		0		26	20/1	SPACE		0	0
27	20/1	SPACE		0		28	20/1	SPACE		0	0
29	20/1	SPACE		0		30	20/1	SPACE		0	0
31	20/1	SPACE		0		32	20/1	SPACE		0	0
33	20/1	SPACE		0		34	20/1	SPACE		0	0
35	20/1	SPACE		0		36	20/1	SPACE		0	0
37	20/1	SPACE		0		38	20/1	SPACE		0	0
39	20/1	SPACE		0		40	20/1	SPACE		0	0
41	20/1	SPACE		0		42	20/1	SPACE		0	0
			TOTAL CONNECTED KVA BY PHASE						13.8	12.8	13.9
LIGHTING			CONN KVA	CALC KVA		RECEPTACLES			CONN KVA	CALC KVA	
LARGEST MOTOR			0.97	1.21	(125%)	NONCONTINUOUS			2.88	2.88	(50%>10)
MOTORS			6.3	1.58	(25%)	HEATING			1.18	1.18	(100%)
			0.256	0.256	(100%)	COOLING			35.2	35.2	(100%)
						TOTAL LOAD			17.2	0	(0%)
						BALANCED 3-PHASE LOAD			42.3		
									117 A		



1 POWER PLAN
 3/16"=1'-0"

2 ELECTRIC RISER
 N.T.S.



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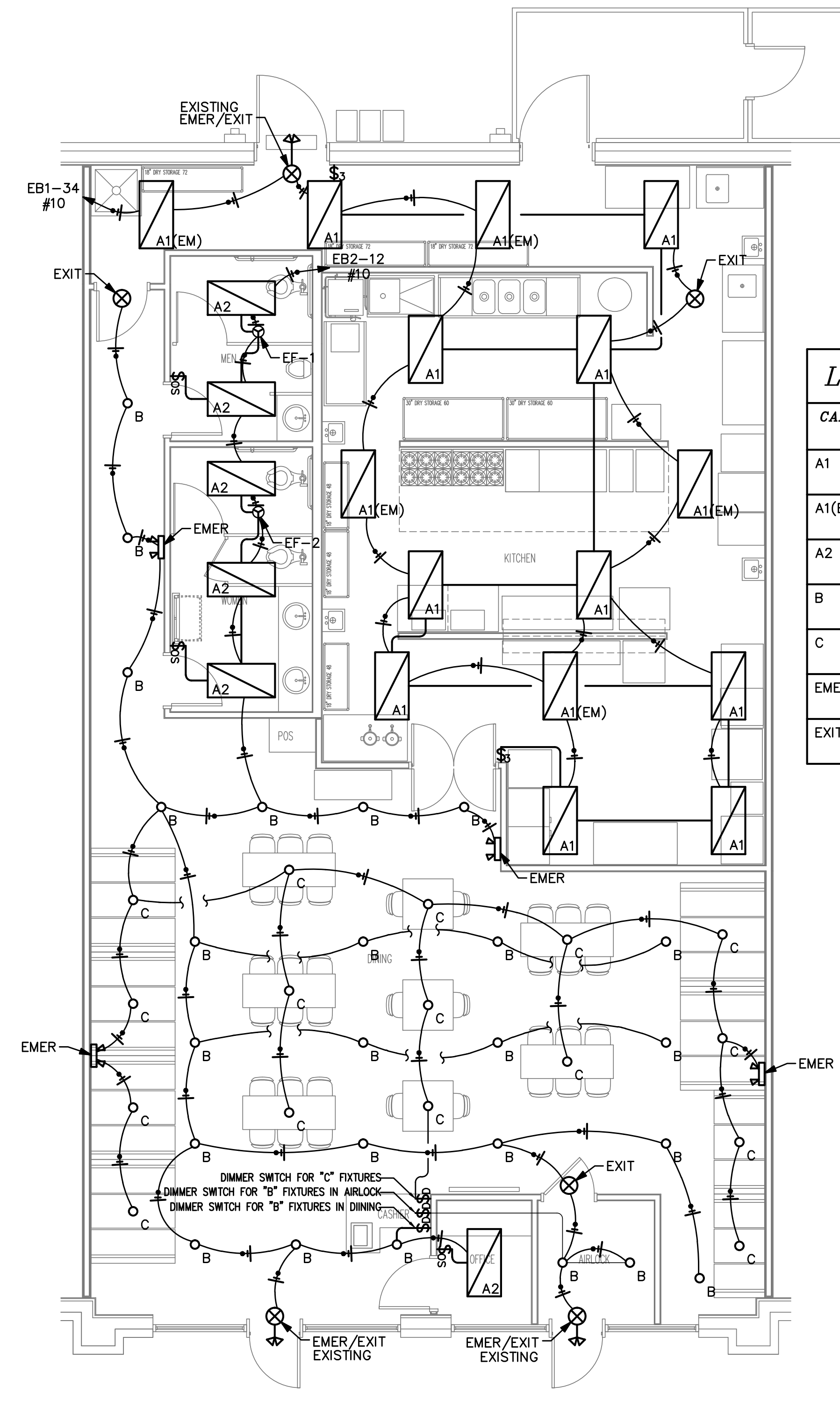
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PROJECT NO: 2022-157
 DRAWN BY: WJ/ML
 DATE: CSL
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SHEET NO: E-2

- \$3 3-WAY WALL MOUNTED LIGHT SWITCH
- \$0 WALL MOUNTED DIMMER SWITCH
- \$0S WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH



1 LIGHTING PLAN
 3/16" = 1'-0"

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1	NOTE 2	LUMENS / LAMP
A1		(1) LED	2' X 4' LED TROFFER	ELECTRONIC	RECESSED	METALUX 24GR-LD5-90-F1-UNV-L840-CD1-U OR EQUAL	69.1	120V 1P 2W			9000
A1(EM)		(1) LED	2' X 4' LED TROFFER WITH EMERGENCY BATTERY PACK	ELECTRONIC	RECESSED	METALUX 24GR-LD5-90-F1-UNV-EL14W-L840-CD1-U OR EQUAL	69.1	120V 1P 2W			9000
A2		(1) LED	2' X 4' LED TROFFER	ELECTRONIC	RECESSED	METALUX 24GR-LD5-42-F1-UNV-L840-CD1-U OR EQUAL	34.5	120V 1P 2W			4200
B		(1) LED	6" LED DOWNLIGHT	ELECTRONIC	RECESSED	COOPER HALO HC620D010-HM60525840-61WDC OR EQUAL	20.9	120V 1P 2W	IC RATED		2000
C		(1) LED	LED PENDANT	ELECTRONIC	PENDANT	AS SELECTED BY OWNER, \$250 ALLOWANCE	14	120V 1P 2W			1000
EMER		(2) LED	SQUARE HEAD LED EMERGENCY LIGHT	ELECTRONIC	WALL/CEILING	METALUX AP2SQLED OR EQUAL	1.8	120V 1P 2W	NICKEL CADMIUM 90 MINUTE BATTERY	DAMP LOCATION LISTED	0
EXIT		(1) 1W LED	LED EMERGENCY EXIT	ELECTRONIC	WALL/CEILING	METALUX APX7R OR EQUAL	1	120V 1P 2W	90 MINUTE NICKEL CADMIUM BATTERY	WITH TEST SWITCH AND POWER INDICATOR	0

ELECTRICAL DESIGN
 (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive

Lighting schedule (each fixture type) SEE LUMINAIRE SCHEDULE SHEET E2

lamp type required in fixture
 number of lamps in fixture
 ballast type used in the fixture
 number of ballasts in fixture
 total wattage per fixture
 total interior wattage specified vs. allowed (whole building or space by space) 1,990 WATTS SPECIFIED / 2,614 WATTS ALLOWED
 total exterior wattage specified vs. allowed

Additional Efficiency Package Options
 (When using the 2018 NCECC; not required for ASHRAE 90.1)

- C406.2 More Efficient HVAC Equipment Performance
- C406.3 Reduced Lighting Power Density
- C406.4 Enhanced Digital Lighting Controls
- C406.5 On-Site Renewable Energy
- C406.6 Dedicated Outdoor Air System
- C406.7 Reduced Energy Use in Service Water Heating

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR SERVICE. A COMPLETE AND WORKING SYSTEM IS REQUIRED FOR COMPLIANCE WITH THESE DOCUMENTS. DETERMINE THE POINT OF CONNECTION TO THE UTILITY WITH THE UTILITY REPRESENTATIVE AND PROVIDE ACCORDINGLY FOR A COMPLETE WORKING SYSTEM.

WIRE AND CABLE SHALL BE INSULATED, TYPE THHN OR THHN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED. CONDUCTORS SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED. NO ROMEX PERMITTED.

EMT SHALL BE GALVANIZED STEEL TUBING, 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUMITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS.

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM NON-METALLIC, HEAVY DUTY, HIGH IMPACT, POLYVINYLCHLORIDE (PVC), TYPE I WILL BE USED FOR CONCRETE ENCASUREMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2-INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH 72 INCHES FOR LIGHTING AND 36" FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUIDTIGHT OR WATER TIGHT WITH PVC JACKET WHERE USED IN DAMP, WET OR OUTSIDE AREAS, AND LIQUIDTIGHT OR WATER TIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TEL. OUTLETS TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 2 INCHES BETWEEN RECEPTACLES AND TEL. OUTLETS.

ALL CONDUCTOR SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA.

CONTRACTOR SHALL ALIGN FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. AT NO TIME WILL AN IONIZATION DETECTOR BE LOCATED WITHIN 3'-0" OF A SUPPLY OR RETURN AIR GRILLE.

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS AND CONDUIT FOR THIS PROJECT THE CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED, RECOMPUTING WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

ALL CONDUIT TERMINATING IN THE CEILING CAVITIES IS TO BE LABELED.

ALL CONDUIT SHALL BE COLOR CODED WITH 1/2" WIDE TAPE, 10'-0" ON CENTER IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER, PRIOR TO INSTALLATION, FOR USE WITH ACTUAL EQUIPMENT.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER/ARCHITECT. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER/ARCHITECT AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE.

ALL FUSES DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.

WHERE EQUIPMENT PENETRATES EXTERIOR WALL OR ROOF THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ARCHITECT/ENGINEER.

ALL WORK IS TO BE DONE IN STRICT COMPLIANCE WITH THE LATEST VERSION OF THE NEC AND APPLICABLE STATE CODES

RECESSED FIXTURES INSTALLED IN RATED ASSEMBLIES SHALL BE INSTALLED WITH AN ENCLOSURE SO AS TO MAINTAIN THE RATING OF ASSEMBLY

2 ELECTRICAL NOTES
 N.T.S.