

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

NAME OF PROJECT: UP-FIT FOR 215 EAST BROAD STREET
ADDRESS: 215 EAST BROAD STREET, DUNN, NORTH CAROLINA ZIP CODE: 28334

OWNER/AUTHORIZED AGENT: ERNEST & TERESA ALPHIN PHONE #: 919-820-2070/919-820-8465 EMAIL:
OWNED BY: ☐ CITY/COUNTY ☒ PRIVATE ☐ STATE
CODE ENFORCEMENT JURISDICTION: ☒ CITY DUNN ☐ COUNTY ☐ STATE

LEAD DESIGN PROFESSIONAL: CRUSE & ASSOCIATES, P.A.

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE NO.	E-MAIL
ARCHITECTURAL	CRUSE AND ASSOCIATES, P.A.	RANDY CRUSE, PE	18909	(910)-892-4429	RCRUSE@CRUSEASSOCIATES.COM
BUILDING	CRUSE AND ASSOCIATES, P.A.	RANDY CRUSE, PE	18909	(910)-892-4429	RCRUSE@CRUSEASSOCIATES.COM
CIVIL	CRUSE AND ASSOCIATES, P.A.	RANDY CRUSE, PE	18909	(910)-892-4429	RCRUSE@CRUSEASSOCIATES.COM
ELECTRICAL	CRUSE AND ASSOCIATES, P.A.	RANDY CRUSE, PE	18909	(910)-892-4429	RCRUSE@CRUSEASSOCIATES.COM
FIRE ALARM	CRUSE AND ASSOCIATES, P.A.	RANDY CRUSE, PE	18909	(910)-892-4429	RCRUSE@CRUSEASSOCIATES.COM
PLUMBING	CRUSE AND ASSOCIATES, P.A.	RANDY CRUSE, PE	18909	(910)-892-4429	RCRUSE@CRUSEASSOCIATES.COM
MECHANICAL	CRUSE AND ASSOCIATES, P.A.	RANDY CRUSE, PE	18909	(910)-892-4429	RCRUSE@CRUSEASSOCIATES.COM
SPRINKLER-STANDPIPE					
STRUCTURAL					
STRUCTURAL (FOUNDATION)					
RETAINING WALLS >5' HIGH					
OTHER					

("OTHER" SHOULD INCLUDE FIRMS AND INDIVIDUALS SUCH AS TRUSS, PRECAST, PRE-ENGINEERED, INTERIOR DESIGNERS, ETC.)

2018 EDITION NC BUILDING CODE: ☐ NEW BUILDING ☐ ADDITION ☒ RENOVATION
☐ 1ST TIME INTERIOR COMPLETIONS
☐ SHELL/CORE-CONTACT THE LEAD INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES & REQUIREMENTS
☐ PHASED CONSTRUCTION-SHELL/CORE-CONTACT THE LEAD INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES & REQUIREMENTS

2018 NC EXISTING BUILDING CODE: ☐ PRESCRIPTIVE ☐ REPAIR ☐ CHAPTER 14
ALTERATION: ☐ LEVEL I ☐ LEVEL II ☒ LEVEL III
☐ HISTORIC PROPERTY ☐ CHANGE OF USE

CONSTRUCTED: (DATE) _____ CURRENT OCCUPANCY(S): (CH. 3) B
RENOVATED: (DATE) _____ PROPOSED OCCUPANCY(S) (CH. 3): B

OCCUPANCY 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
☐ I-B ☐ II-B ☒ III-B ☐ V-B

SPRINKLERS: ☒ NO ☐ PARTIAL ☐ YES E.S.F.R. ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

STANDPIPES: ☒ NO ☐ YES CLASS ☐ I ☐ II ☐ III ☐ WET ☐ DRY

PRIMARY FIRE DISTRICT: ☐ NO ☒ YES FLOOD HAZARD AREA: ☐ NO ☐ YES

SPECIAL INSPECTIONS REQUIRED: ☒ NO ☐ YES (CONTACT THE LOCAL INSPECTION JURISDICTION FOR ADDITIONAL PROCEDURES & REQUIREMENTS)

GROSS BUILDING AREA:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3RD FLOOR			
2ND FLOOR			
MEZZANINE			
1ST FLOOR	1,550		
BASEMENT			
TOTAL GROSS AREA:			

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S):

ASSEMBLY ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
BUSINESS ☒
EDUCATIONAL ☐
FACTORY ☐ F-1 MODERATE ☐ F-2 LOW
HAZARDOUS ☐ H-1 DETONATE ☐ H-2 DEFLAGRATE ☐ H-3 COMBUST ☐ H-4 HEALTH ☐ H-5 PHM
INSTITUTIONAL ☐ I-1 CONDITION ☐ 1 ☐ 2
☐ I-2 CONDITION ☐ 1 ☐ 2
☐ I-3 CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
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: _____ 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.

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$$
$$+ \dots = \dots \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	B	1,550	19,000	-	19,000

¹ FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THUS:

- A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = _____(F)
B. TOTAL BUILDING PERIMETER = _____(P)
C. RATIO (F/P) = _____(F/P)
D. W = MINIMUM WIDTH OF PUBLIC WAY = _____(W)
E. PERCENT OF FRONTAGE INCREASE $\frac{1}{2}$ = $100[(F/P-0.25) \times W/30]$ = _____(%)

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 406.5.4.

⁵ FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
BUILDING HEIGHT IN FEET (TABLE 504.3) ²	FEET 55	28'-0"	
BUILDING HEIGHT IN STORIES (TABLE 504.4) ³	STORIES 2	STORIES 2	

1. PROVIDE CODE REFERENCE IF THE "SHOWN ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4.
2. THE MAXIMUM HEIGHT OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1.
3. THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQUIRED	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	-	-	-	-	-	-	-
NORTH	-	0	-	-	-	-	-
EAST	-	0	-	-	-	-	-
WEST	-	0	-	-	-	-	-
SOUTH	-	0	-	-	-	-	-
INTERIOR	-	0	-	-	-	-	-
NONBEARING WALLS & PARTITIONS	-	-	-	-	-	-	-
EXTERIOR	-	0	-	-	-	-	-
NORTH	-	0	-	-	-	-	-
EAST	-	0	-	-	-	-	-
WEST	-	0	-	-	-	-	-
SOUTH	-	0	-	-	-	-	-
INTERIOR	-	0	-	-	-	-	-
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	-	0	-	-	-	-	-
FLOOR CEILING ASSEMBLY	-	2 HR	-	-	-	L505	-
COLUMNS SUPPORTING FLOORS	-	-	-	-	-	-	-
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	-	0	-	-	-	-	-
ROOF CEILING ASSEMBLY	-	-	-	-	-	-	-
COLUMNS SUPPORTING ROOF	-	-	-	-	-	-	-
SHAFT ENCLOSURES-EXIT	-	-	-	-	-	-	-
SHAFT ENCLOSURES-OTHER	-	-	-	-	-	-	-
CORRIDOR SEPARATION	-	0	-	-	-	-	-
OCCUPANCY SEPARATION	-	-	-	-	-	-	-
PARTY/FIRE WALL SEPARATION	-	4	-	-	-	-	-
SMOKE BARRIER SEPARATION	-	-	-	-	-	-	-
TENANT/DWELLING UNIT SLEEPING UNIT SEPARATION	0	-	-	-	-	-	-
INCIDENTAL USE SEPARATION	-	-	-	-	-	-	-

*INDICATE SECTION NUMBER PERMITTING REDUCTION

THIS IS AN EXISTING DOWNTOWN BUILDING WITH MASONRY (>4 HR) TENANT SEPARATION WALL.

PERCENTAGE OF WALL OPENING CALCULATIONS-EXISTING, NO CHANGE

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

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING: ☐ NO ☒ YES
EXIT SIGNS: ☐ NO ☒ YES
FIRE ALARM: ☒ NO ☐ YES
SMOKE DETECTION SYSTEMS: ☒ NO ☐ YES ☐ PARTIAL _____
CARBON MONOXIDE DETECTION: ☒ NO ☐ YES

*NOTE: PROVIDE CO SENSORS THROUGHOUT R-2 SPACE ON SECOND FLOOR

LIFE SAFETY PLAN REQUIREMENTS:

LIFE SAFETY PLAN SHEET #, IF PROVIDED SEE SHEET LS-1 OF 1

ACCESSIBLE DWELLING UNITS N/A (SECTION 1107)

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

ACCESSIBLE PARKING-EXISTING PARKING PROVIDED BY CITY (SECTION 1106)

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

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	SERVICE SINKS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX			REGULAR	ACCESSIBLE
SPACE REQUIRED	1	1	-		1	1	-		1	N/A	N/A
PROVIDED			2				2		1	N/A	N/A

2018 NBCB 2902.2 EXC. 5; PROVIDING TWO UNISEX TOILET ROOMS TO MEET REQUIREMENT.

SPECIAL APPROVALS

SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)

DESIGN LOADS:

STRUCTURAL DESIGN (EXISTING BUILDING-NO CHANGE)

SNOW (s_s) -
SEISMIC (i_e) -
LIVE LOADS: ROOF - PSF
MEZZANINE - N/A PSF
FLOOR - PSF
GROUND SNOW LOAD: - PSF
WIND LOAD: BASIC WIND SPEED - MPH (ASCE-7)
EXPOSURE CATEGORY -

SEISMIC DESIGN CATEGORY

☐ A ☐ B ☐ C ☐ D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY (TABLE 1604.5) ☐ I ☐ II ☐ III ☐ IV
SPECTRAL RESPONSE ACCELERATION S_s - $\%g$ S_1 - $\%g$
SITE CLASSIFICATION (ASCE 7): ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
DATA SOURCE: ☐ FIELD TEST ☐ PRESUMPTIVE ☐ HISTORICAL DATA
BASIC STRUCTURAL SYSTEM (CHECK ONE)
☐ BEARING WALL ☐ DUAL W/SPECIAL MOMENT FRAME
☐ BUILDING FRAME ☐ DUAL W/INTERMEDIATE R/C OR SPECIAL STEEL
☐ MOMENT FRAME ☐ INVERTED PENDULUM

ANALYSIS PROCEDURE ☐ SIMPLIFIED ☐ EQUIVALENT LATERAL FORCE ☐ DYNAMIC
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? ☐ YES ☐ NO

LATERAL DESIGN CONTROL:

EARTHQUAKE ☐ WIND ☒

SOIL BEARING CAPACITIES:

FIELD TEST (PROVIDE COPY OF TEST REPORT) - PSF
PRESUMPTIVE BEARING CAPACITY - PSF
PILE SIZE, TYPE, AND CAPACITY -

ENERGY REQUIREMENTS: EXISTING BUILDING, NO ENVELOPE CHANGES.

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS THE 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: _____

CLIMATE ZONE: ☐ 3A ☐ 4A ☐ 5A

METHOD OF COMPLIANCE: ENERGY CODE ☐ PERFORMANCE ☐ PRESRIPTIVE
ASHRAE 90.1 ☐ PERFORMANCE ☐ PRESRIPTIVE

OTHER: ☐ PERFORMANCE (SPECIFY SOURCE) _____

THERMAL ENVELOPE (PRESRIPTIVE METHOD ONLY)

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY):

DESCRIPTION OF ASSEMBLY _____
U-VALUE OF TOTAL ASSEMBLY: _____
R-VALUE OF INSULATION: _____
SKYLIGHTS IN EACH ASSEMBLY _____
U-VALUE OF SKYLIGHT: _____
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY _____

EXTERIOR WALLS (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY _____
U-VALUE OF TOTAL ASSEMBLY: _____
R-VALUE OF INSULATION: _____
OPENINGS (WINDOWS OR DOORS WITH GLAZING) _____
U-VALUE OF ASSEMBLY _____ SOLAR HEAT GAIN COEFFICIENT: _____
PROJECTION FACTOR _____ DOOR R-VALUES _____

WALLS BELOW GRADE (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY _____
U-VALUE OF TOTAL ASSEMBLY _____ R-VALUE OF INSULATION: _____

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY _____
U-VALUE OF TOTAL ASSEMBLY _____ R-VALUE OF INSULATION: _____

FLOOR SLAB ON GRADE

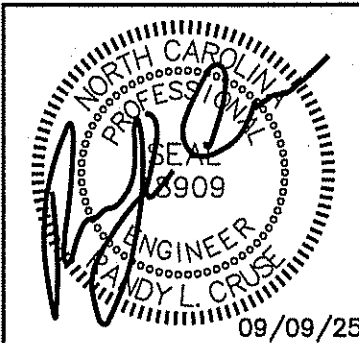
DESCRIPTION OF ASSEMBLY _____
R-VALUE OF INSULATION: _____
U-VALUE OF TOTAL ASSEMBLY -
HORIZONTAL / VERTICAL REQUIREMENT -
SLAB HEATED ? _____

SUMMARY:

ENERGY CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE
BUILDING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: BUILDING CODE
MECHANICAL CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: MECHANICAL CODE
PLUMBING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: PLUMBING CODE
ELECTRICAL CODE: 2020 NATIONAL ELECTRIC CODE
ACCESSIBILITY CODE: ICC/ANSI 117.1-2009 AMERICAN NATIONAL STANDARD ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
CONSTRUCTION: III-B
OCCUPANCY: B

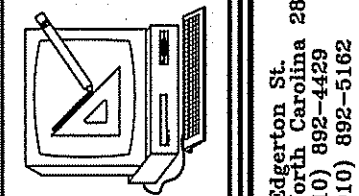
SHEET INDEX

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PROPOSED UP-FIT FOR:
RUMBLE PIZZA
215 EAST BROAD STREET
DUNN, NORTH CAROLINA 28334

REVISIONS	
NO.	

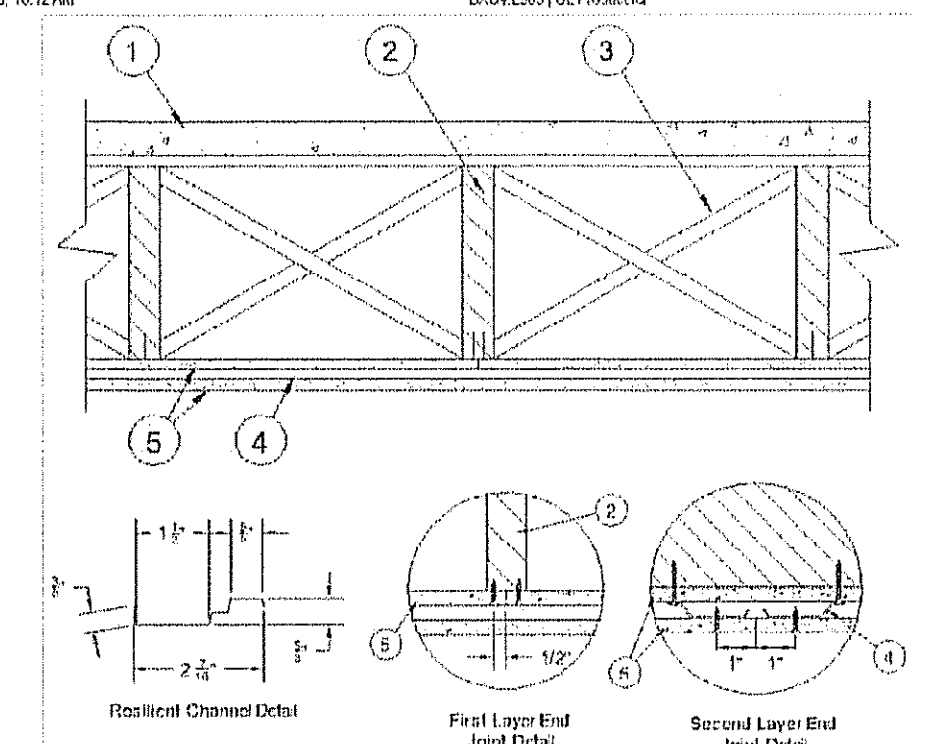


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DRAWN 09/09/2025
DATE BY BAM
JOB NO. 25-20

SHEET NO.
BD-1 OF 2

7/10/25, 10:12 AM BRUX/L505/UL Product IQ UL Product iQ® DesignSystem/Construction/Assembly, Jorge T. Sabin • Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, systems, devices, and materials. • Authorities Having Jurisdiction should be consulted before construction. • Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field. • When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of the resources assemblies are advised to consult the general guide information for each product category and each group of assemblies. The guide information includes specifics concerning alternate materials and alternate methods of construction. • Only products which bear UL's Mark are considered Certified. BRXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BRXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances June 30, 2025 Design No. L505 Unrestricted Assembly Rating — 2 Hr. Flash Rating — 75 Min. This design was evaluated using a load design method other than the United States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the United States Design Method, such as Canada, a load resistance factor shall be used — See Guide B302 or B307. * Indicates such products shall bear the UL or cUL Classification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. https://ulq.alphagroup.com/emiparts/ten+1200 211	7/10/25, 10:12 AM BRUX/L505/UL Product IQ  1. Flooring System — The flooring system shall consist of one of the following: System No. 1 Subflooring — Min 1 1/2 in. 1 & 6 G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels or 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered. Finish Flooring — Min 1/4 in. 1 & 6 G lumber fastened perpendicular to joists, or min 15/32 in. wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. Vapor Barrier — (Optional) — Non 0.010 in. thick commercial asphalt saturated felt. Finish Flooring — Floor Topping Mixtures* — Min 1/2 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design. UNITED STATES GYPSUM CO — Types UR1, UR2, UR3, UR4, UR5, UR6, UR7, UR8, UR9, UR10, UR11, UR12, UR13, UR14, UR15, UR16, UR17, UR18, UR19, UR20, UR21, UR22, UR23, UR24, UR25, UR26, UR27, UR28, UR29, UR30, UR31, UR32, UR33, UR34, UR35, UR36, UR37, UR38, UR39, UR40, UR41, UR42, UR43, UR44, UR45, UR46, UR47, UR48, UR49, UR50, UR51, UR52, UR53, UR54, UR55, UR56, UR57, UR58, UR59, UR60, UR61, UR62, UR63, UR64, UR65, UR66, UR67, UR68, UR69, UR70, UR71, UR72, UR73, UR74, UR75, UR76, UR77, UR78, UR79, UR80, UR81, UR82, UR83, UR84, UR85, UR86, UR87, UR88, UR89, UR90, UR91, UR92, UR93, UR94, UR95, UR96, UR97, UR98, UR99, UR100, UR101, UR102, UR103, UR104, UR105, UR106, UR107, UR108, UR109, UR110, UR111, UR112, UR113, UR114, UR115, UR116, UR117, UR118, UR119, UR120, UR121, UR122, UR123, UR124, UR125, UR126, UR127, UR128, UR129, UR130, UR131, UR132, UR133, UR134, UR135, UR136, UR137, UR138, UR139, UR140, UR141, UR142, UR143, UR144, UR145, UR146, UR147, UR148, UR149, UR150, UR151, UR152, UR153, 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EXIT REQUIREMENTS: NUMBER AND ARRANGEMENTS OF EXITS						
FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NO. OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS - (SECTION 1016-1021)	
	REQ'D.	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
B	1	1	100'	90'-0"	N/A	N/A

- CORRIDOR DEAD ENDS (SECTION 1020.4)
- BUILDINGS W/SINGLE EXITS (TABLE 1006.3.2(2)), SPACES W/ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1006.2.1)
- COMMON PATH OF TRAVEL (SECTION 1028.8)
- REAR EXIT IS NON ADA COMPLIANT

USE GROUP OR SPACE DESCRIPTION	EXIT WIDTH		EXIT WIDTH (h)	
	(a)	(b)	(c)	(d)
	AREA ¹ SQ. FT.	AREA ¹ PER OCCUPANT (TABLE 1004.1.2)	EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)	REQUIRED WIDTH (SECTION 1005.1) (a/b) x c
RESTAURANT	950	SEATING	25	N/A .2
KITCHEN	600	200	3	N/A .2
				N/A 0.9"
				N/A 61"
TOTAL	1,550		28	

- SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002, DEFINED IN CHAPTER 2)
- MINIMUM STAIRWAY WIDTH (SECTION 1011.2); MIN. CORRIDOR WIDTH (SECTION 1020.2); MIN. DOOR WIDTH (SECTION 1010.1.1)
- MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024)
- SEE SECTION 1005.6 FOR CONVERGING EXITS.
- THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5)
- ASSEMBLY OCCUPANCIES (SECTION 1029)

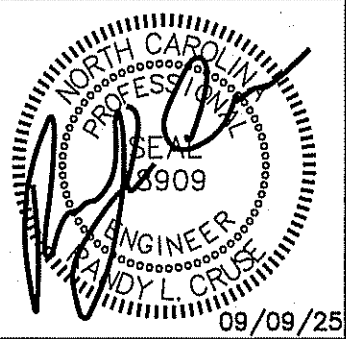
- LIFE SAFETY PLAN REQUIREMENTS:
- FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) - SEE NOTE 1
 - ASSUMED AND REAL PROPERTY LINE LOCATIONS - SEE NOTE 2
 - EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) - SEE NOTE 3
 - OCCUPANCY TYPES FOR EACH AREA AS IT RELATES 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 & 1006.3.2(1))
 - DEAD END LENGTHS (1020.4) - SEE NOTE 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. SEE NOTE 5
 - LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10) - SEE NOTE 6
 - LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1010.1.9.7) - SEE NOTE 7
 - LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.9) - SEE NOTE 7
 - LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES - SEE NOTE 7
 - LOCATION OF EMERGENCY ESCAPE WINDOWS (1030) - SEE NOTE 7
 - THE SQUARE FOOTAGE OF EACH FIRE AREA (202) - SEE NOTE 8
 - THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.5) - SEE NOTE 9
- NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

- LIFE SAFETY PLAN NOTES:
- SEE RATED WALL LEGEND
 - ALL ASSUMED PROPERTY LINES = 0'-0"
 - ASSUMED PROPERTY LINE SEPARATION DISTANCE = 0'-0"; ALLOWED WALL OPENING: -NOT ALLOWED
 - NO DEAD ENDS > 20'
 - 2 HOUR RATED FLOOR/CEILING, SEE UL DETAIL; L505
 - PANIC HARDWARE NOT REQUIRED.
 - NO DELAYED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, OR EMERGENCY ESCAPE WINDOWS REQUIRED
 - FIRE AREAS DO NOT EXCEED CODE ALLOWANCE
 - BUILDING MEETS CODE REQUIREMENTS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS; NO SMOKE COMPARTMENTS

MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)

35" CLEAR WIDTH DIVIDED BY .2" = 210 OCCUPANTS
CALCULATED OCCUPANCY PER EXIT = 28 PEOPLE
CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

NOTE:
FIRE STOP ALL PENETRATIONS THROUGH 2 HOUR RATED FLOOR/CEILING.



PROPOSED UP-FIT FOR:
RUMBLE PIZZA
215 EAST BROAD STREET
DUNN, NORTH CAROLINA 28334

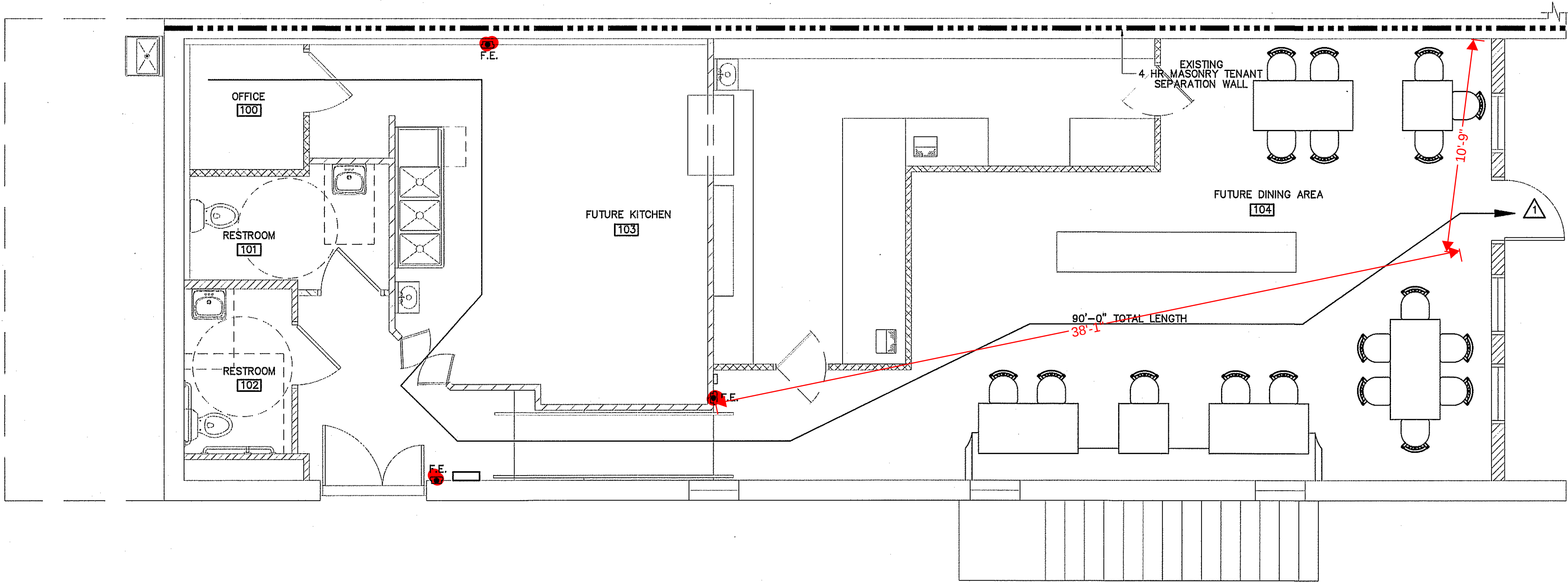
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Cruse And Associates, P.A.

11 S. Main St.
Dunn, North Carolina 28334
TEL: (910) 892-4439
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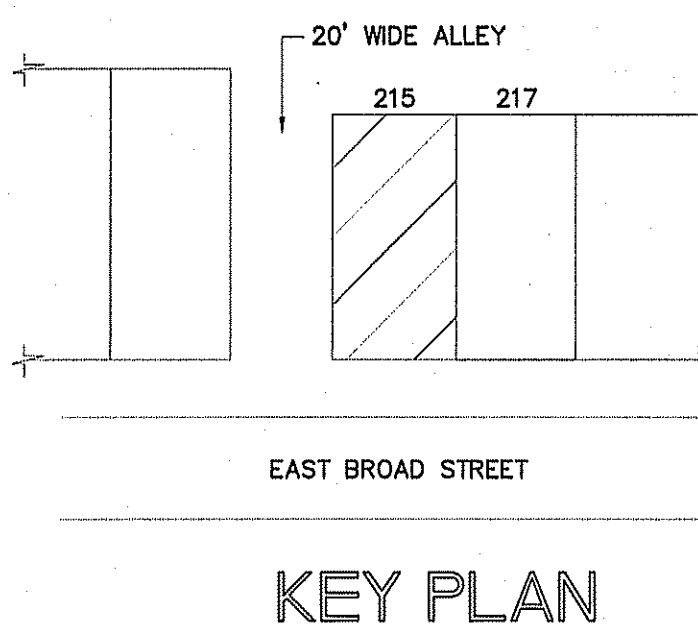
DATE 09/09/2025
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JOB NO. 25-20
SHEET NO. LS-1 OF 1



NOTE:
AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.

- LEGEND**
- FIRE EXTINGUISHER & CABINET CLASS ABC 10 POUNDS
 - EXISTING TENANT SEPARATION WALL = 4 HR
 - EXISTING WOOD WALL
 - NEW METAL STUD WALL

LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"



ROOM		FLOOR		BASE		WALLS		CEIL. HT.		CLG.		REMARKS				
		CONCRETE	CARPET**	TILE	LVT	WOOD	CERAMIC TILE	RUBBER BASE	BRICK	1/2" DRYWALL	CERAMIC TILE		FRP	2X2 CEILING	NONE	DRYWALL
ROOM NO.	ROOM NAME															
100	OFFICE				X		X		X	X		8'-0" +/-	X	X		
101	UNISEX RESTROOM				X		X		X	X		8'-0" +/-	X	X		
102	UNISEX RESTROOM				X		X		X	X		8'-0" +/-	X	X		
103	KITCHEN				X		X		X	X		VARIES				
104	SERVING AREA				X		X		X	X		11'-3" +/-				
105	DINING				X		X		X	X		11'-3" +/-				

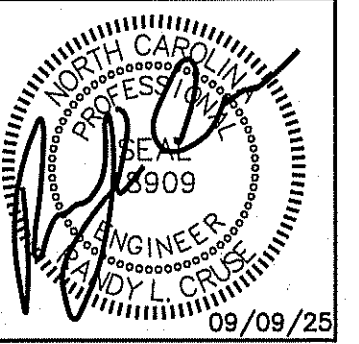
OWNER TO VERIFY ALL COLORS AND FINISHES BEFORE ORDERING MATERIALS.
PROVIDE VINYL BACKED/WASHABLE CEILING IN FOOD PREP/COOKING AREAS AS REQUIRED.

DOOR SCHEDULE				
DOOR NO.	DOOR SIZE			REMARKS
	WIDE	HIGH	THICK	
001	3'-0"	7'-0"	1 5/8"	INTERIOR DOOR
002	3'-0"	7'-0"	1 5/8"	INTERIOR DOOR
003	3'-0"	7'-0"	1 5/8"	INTERIOR DOOR
004	3'-0"	7'-0"	1 3/8"	DOUBLE 1'-6" SWINGING DOORS
005	3'-0"	3'-6"	1 5/8"	HALF-DOOR, VERIFY HEIGHT
006	3'-0"	3'-6"	1 5/8"	HALF-DOOR, VERIFY HEIGHT
007	3'-0"	7'-0"	1 5/8"	EXISTING EXTERIOR DOOR
008	5'-0"	7'-0"	1 5/8"	EXTERIOR EXTERIOR DOUBLE DOORS

VERIFY ALL DOOR SIZES & STYLES WITH OWNER BEFORE ORDERING MATERIAL
ALL HARDWARE TO BE ADA COMPLIANT

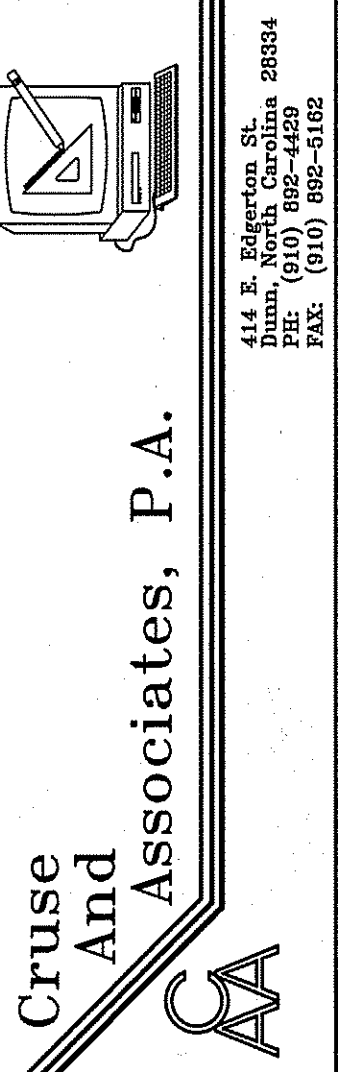
KEY NOTES:

1. ADJUST RAMP LENGTH TO FINAL ELEVATION CHANGE.
2. "HALF-WALL" VERIFY HEIGHT WITH OWNER BEFORE BEGINNING CONSTRUCTION.
3. ADA HEIGHT COUNTER-TOP. MAXIMUM HEIGHT IS 34"; OPEN BELOW.
4. EXISTING WINDOW
5. EXISTING DOOR
6. PASS-THROUGH WINDOW & SHELF. VERIFY SIZE & LOCATION WITH OWNER BEFORE COSTRUCTION.
7. WALL SHELF & COUNTER-TOP
8. 12" HANDRAIL EXTENSION



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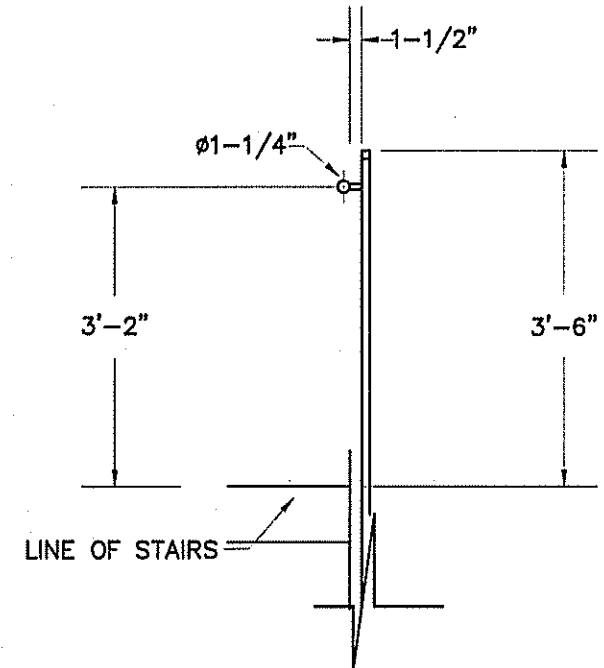
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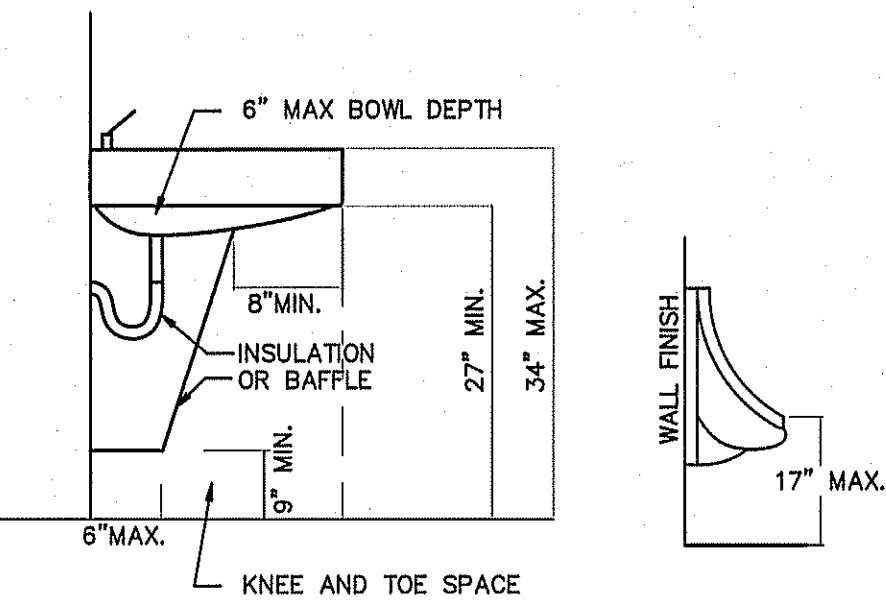
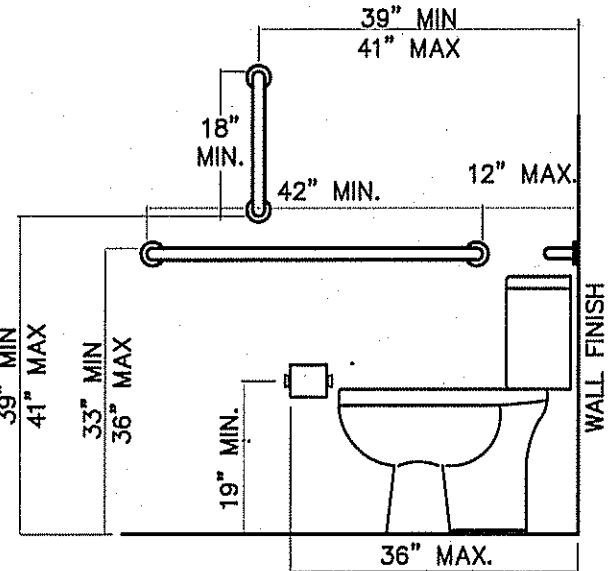
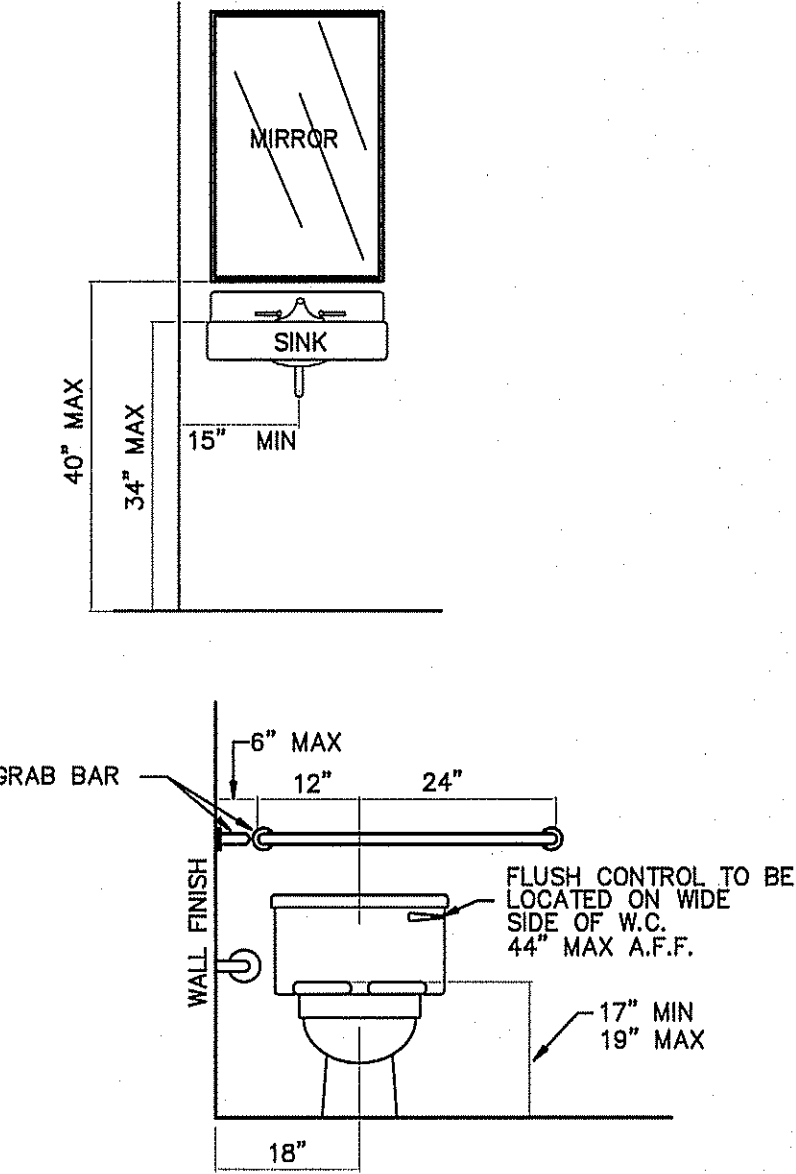
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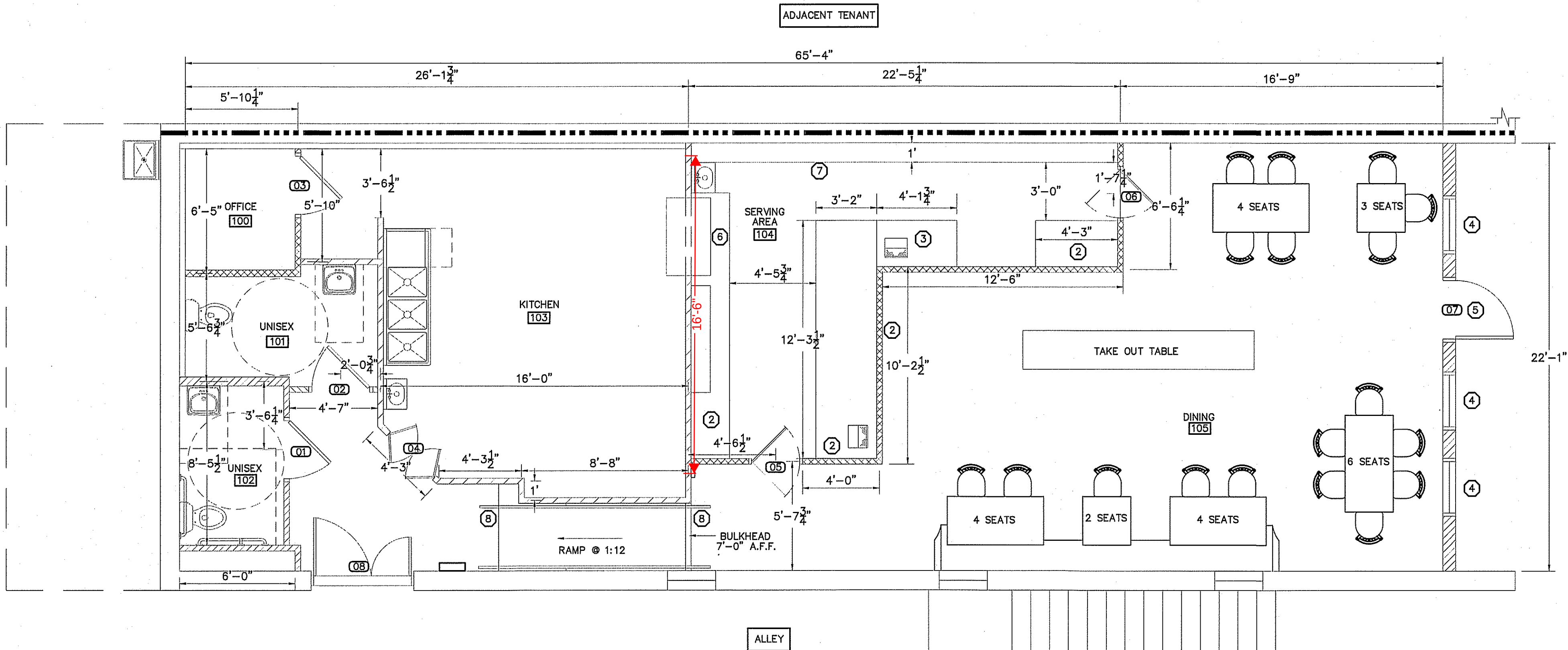
SHEET NO.
F-1 OF 2



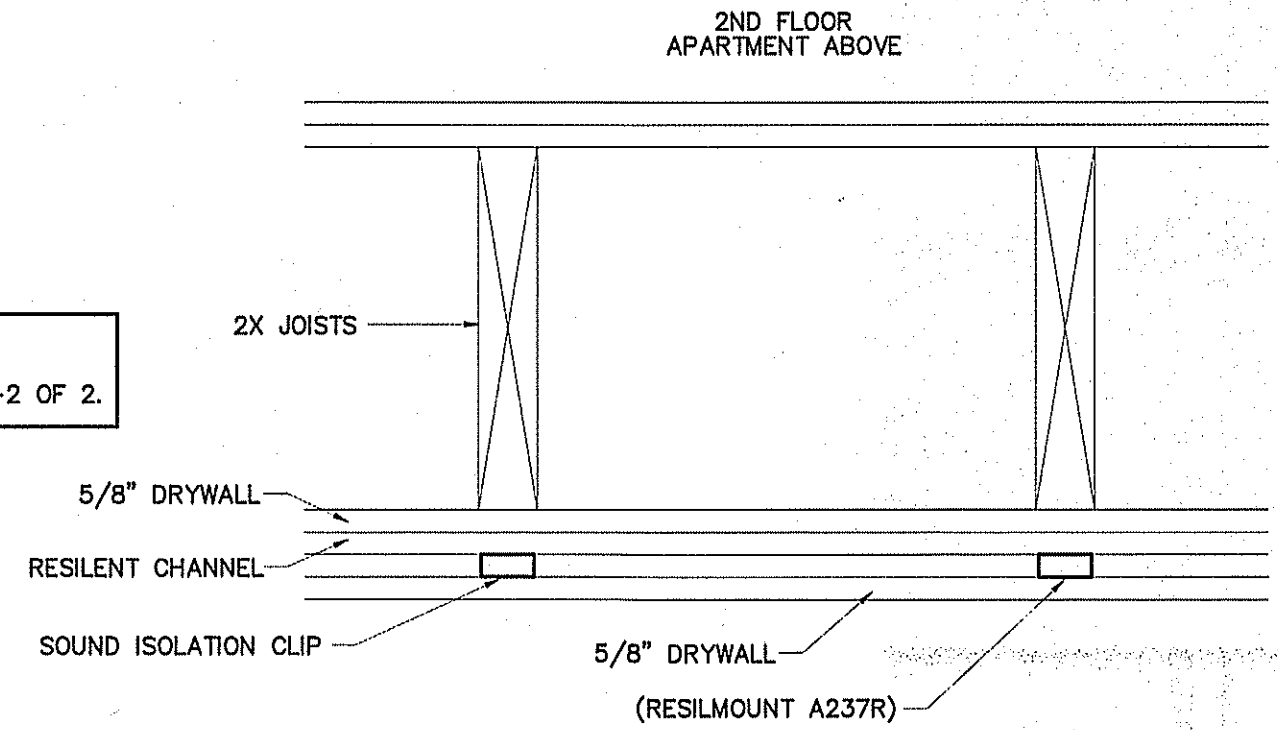
HAND RAIL DETAIL
SCALE: 1/2" = 1'-0"



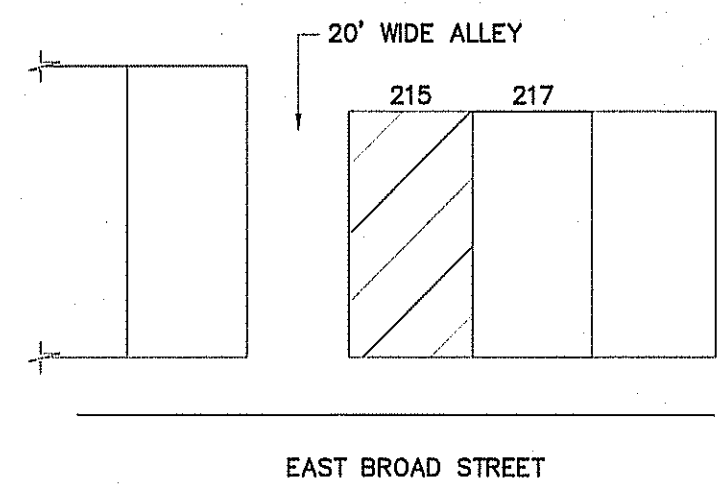
RESTROOM ACCESSIBILITY DETAILS
SCALE: 1/2" = 1'-0"



PROPOSED FLOOR PLAN
SCALE: 1/4" = 1'-0"



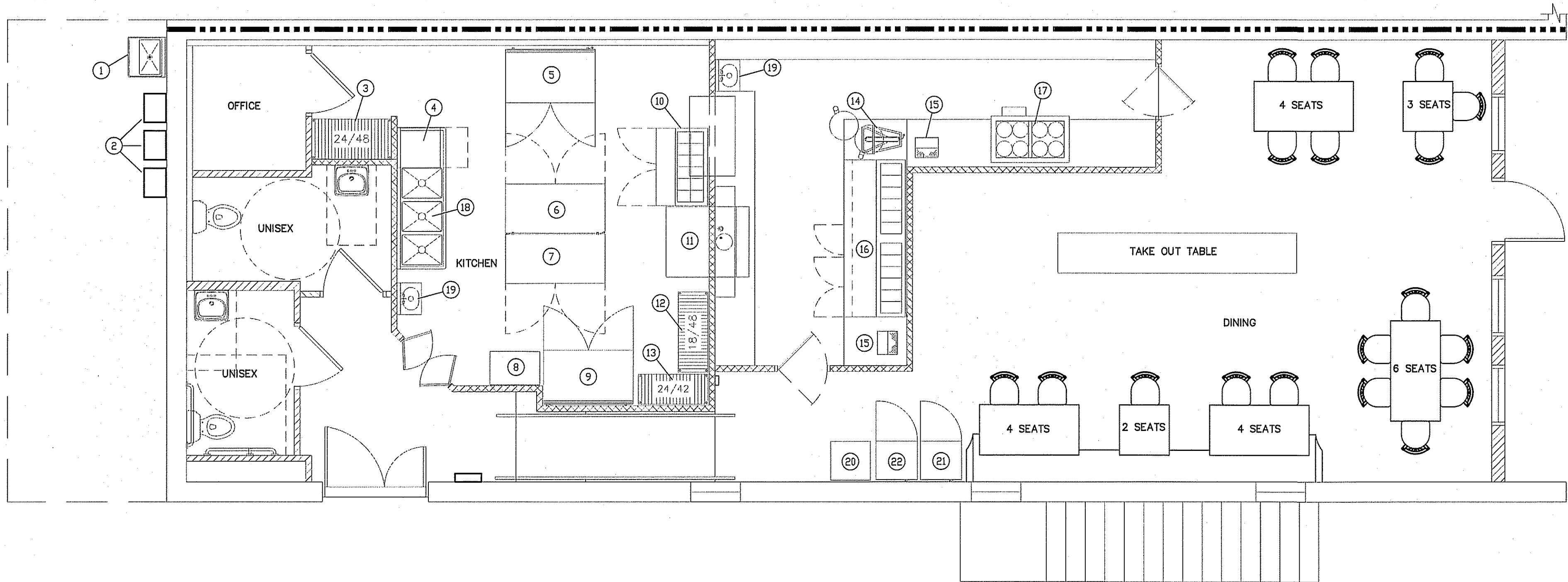
CEILING SOUND ISOLATION DETAIL
SCALE: NTS



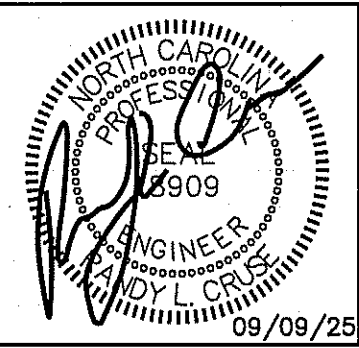
KEY PLAN

LEGEND	
-----	EXISTING TENANT SEPARATION WALL = 4 HR
-----	EXISTING WOOD WALL
-----	NEW METAL STUD WALL

EQUIPMENT SCHEDULE		
ITEM	QUAN	DESCRIPTION
1	1	MOP SINK
2	3	GAS WATER HEATER (199,000 BTU EA)
3	1	24X48 WIRE SHELVING
4	1	NOBLE UH30-E DDOOR TYPE DISH MACHINE
5	1	DOUBLE DOOR REFRIGERATOR
6	1	PREP TABLE
7	1	REFRIGERATED PREP TABLE
8	1	SHELVING
9	1	DOUBLE DOOR FREEZER
10	1	PREP TABLE
11	1	GAS PIZZA OVEN
12	1	18"x48" WIRE SHELVING
13	2	24"x42" WIRE SHELVING
14	1	ENDURANCE XIM DOUGH PRESS
15	2	POINT OF SALE MACHINE
16	1	PIZZA PREP
17	1	ICE CREAM DIPPING STATION
18	1	3-Compartment SINK W/1 SIDEBOARD
19	2	S.S. HAND SINK
20	1	TRASH CAN
21	1	SINGLE DOOR REACH IN SODA COOLER
22	1	SINGLE DOOR REACH IN BEER COOLER
		REMARKS
		WELL & FAUCET
		18"x 24" Bowls

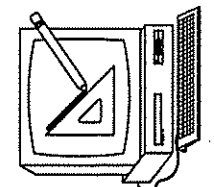


PROPOSED EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"



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RUMBLE PIZZA
215 EAST BROAD STREET
DUNN, NORTH CAROLINA 28334

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SHEET NO.
F-2 OF 2

PLUMBING LEGEND	
DESCRIPTION	SYMBOL
COLD WATER	CW
HOT WATER	HW
COLD WATER (FILTERED)	
RECIRCULATED WATER	HWR
VENT PIPING	V
WASTE PIPING	DOMESTIC GREASE W
CLEAN OUT IN GRADE	C.O.I.G.
FLOOR CLEAN OUT	F.C.O.
NON FREEZE HOSE BIBB	NFHB
FLOOR DRAIN	F.D.
CHECK VALVE	
BALL VALVE	
GATE VALVE	
SHUT-OFF VALVE	
DOUBLE CHECK VALVE	
FIXTURE DESIGNATION	P---
MOUNTING HEIGHT	MH
POINT OF CONNECTION NEW TO EXISTING	
FLOOR SINK	
SHOCK ABSORBER W/BALL VALVE SHUT-OFF	SA SIZE PER MANUF. RECOMMENDATIONS
CHANGE IN PIPE SIZE	

- KEY NOTES:**
- CONNECT INSTANTANEOUS WATER HEATERS TO MANIFOLD PER MANUFACTURER'S REQUIREMENTS
 - ADA HEIGHT COUNTER--TOP SECTION
 - COORDINATE SUPPLY & VENT PIPING WITH HVAC RETURN DUCT & GRILLE.

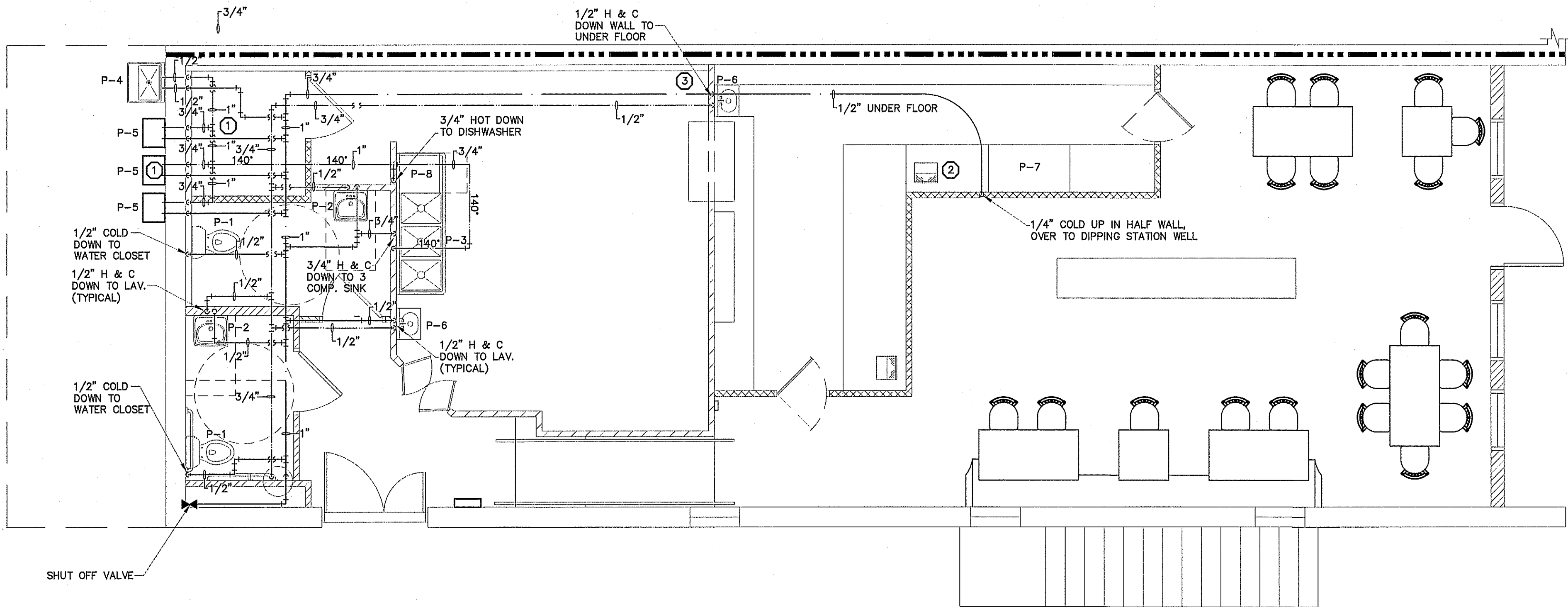
PLUMBING FIXTURE SCHEDULE				
MARK	MAKE	MODEL	DESCRIPTION	NOTES
P-1	AMERICAN STANDARD	CADET 2467.016	EL 1.6/PA 16.5"HC ELONGATED WATER CLOSET HC ACCESSIBLE, TANK TYPE	WHITE 5321.110 SEAT
P-2	AMERICAN STANDARD	LUCERNE 0356.041.020	VIRTEOUS CHINA WALL MOUNTED SINK	1340.227 FAUCET. PROVIDE W/BASKET DRAIN
P-3	REGENCY	6053182424RX	(3) 18" W X 24"; 14" DEEP WITH (1) 24" RIGHT DRAINBOARD & 10" HIGH BACKSPLASH	
P-4	REGENCY	ONE COMPARTMENT FLOOR MOP SINK	29" 16 GAUGE STAINLESS STEEL 1 COMP. FLOOR MOP SINK-24"x24"x12" BOWL	PROVIDE W/ SERVICE FAUCET; HOSE AND HOSE HOLDER; MOP HANGER; AND DURAGUARD WALL GUARDS
P-5		GAS WATER HEATER	199,000 BTU/HOUR	
P-6	JOHN BOOS & CO.	PBHS-14-SS	PRO BOWL HAND SINKS W/SIDE SPLASH	
P-7	AVANTCO	178CPSS47HC	STAINLESS STEEL DELUXE ICE CREAM DIPPING CABINET	
P-8	NOBLE	NOBLE UH30-E	STAINLESS STEEL DISHWASHER	
P-9	WATTS	WD-210	IN FLOOR GREASE INTECEPTOR	MINIMUM OF 200 LB. & 100 G.P.M.
P-10	JOSAM	30003-C	FLOOR DRAIN	PROVIDE W/ NON-CLOG STRAINER & BUCKET, NIKALOY STRAINER, INSIDE CAULK OUTLET & TRAP GUARDS WHERE REQUIRED.
P-11	FLOOR SINK			

* OR EQUAL; VERIFY ALL FIXTURES WITH OWNER BEFORE PURCHASING OR INSTALLING;

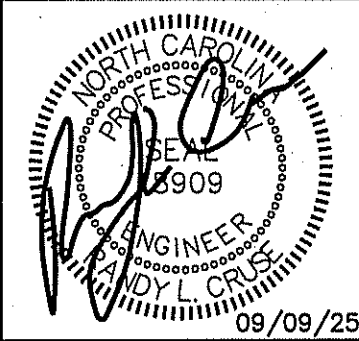
PLUMBING CONNECTION SCHEDULE				
FIXTURE	C.W.	H.W.	WASTE	VENT
FLUSH TANK WATER CLOSET	1/2"	-	3"	2"
LAVATORY	1/2"	1/2"	2"	1 1/2"
SERVICE SINK	1/2"	1/2"	2"	1 1/2"
FLOOR DRAIN			3"	2"
KITCHEN SINKS	1/2"	1/2"	3"	2"

PLUMBING CALCULATIONS							
ITEM	# OF	FIXTURE UNITS (EACH)			FIXTURE UNITS (TOTAL)		
		COLD	HOT	TOTAL	COLD	HOT	TOTAL
FLUSH TANK-H.C WATER CLOSET	2	5.0	-	5.0	10	-	10
LAVATORY	5	1.5	1.5	2	7.5	7.5	10.0
JANITOR'S SINK	1	2.25	2.25	3	2.25	2.25	3.0
3 COMPARTMENT SINK	1	3	3	4.0	3	3	4.0
N.F.H.B.	1	3.0	-	3.0	3.0	-	3.0
DISHWASHER	1	-	1.4	1.4	-	1.4	1.4
TOTAL		14.8	8.15	18.4	25.75	14.15	31.4

GPM = 19.0 @ 60 PSI
WATER SUPPLY PIPE SIZE: 1" MINIMUM



PLUMBING SUPPLY PIPING PLAN
SCALE: 1/4" = 1'-0"



PROPOSED UP-FIT FOR:
RUMBLE PIZZA
215 EAST BROAD STREET
DUNN, NORTH CAROLINA 28334

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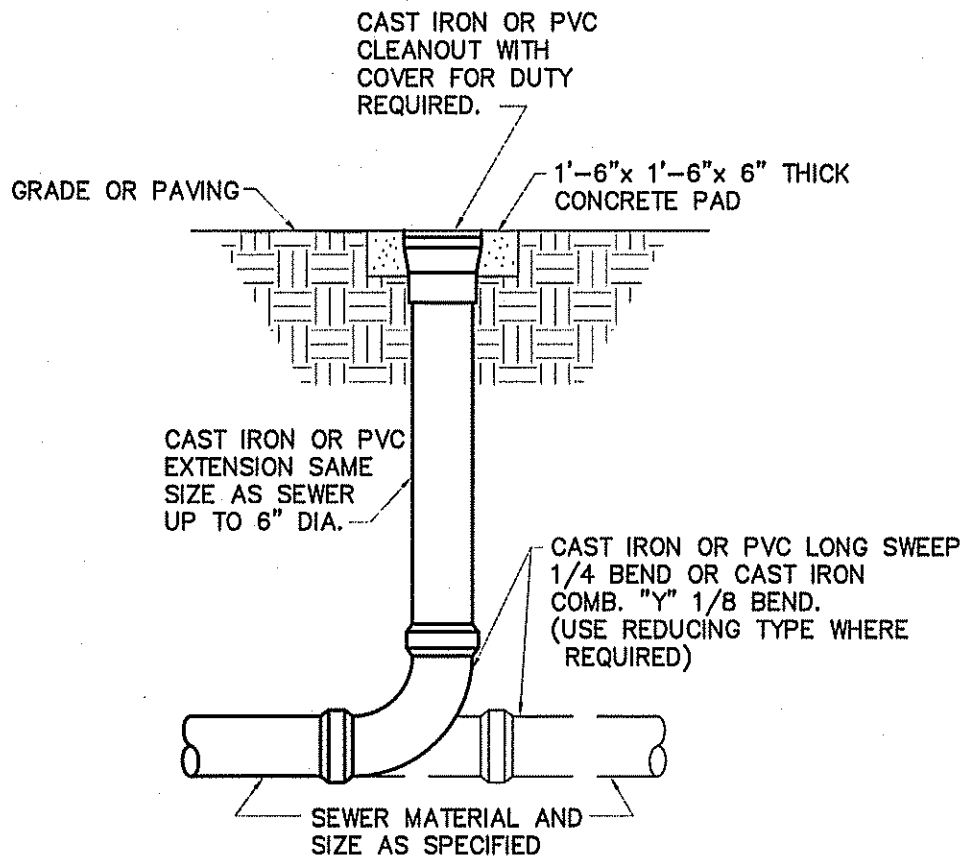
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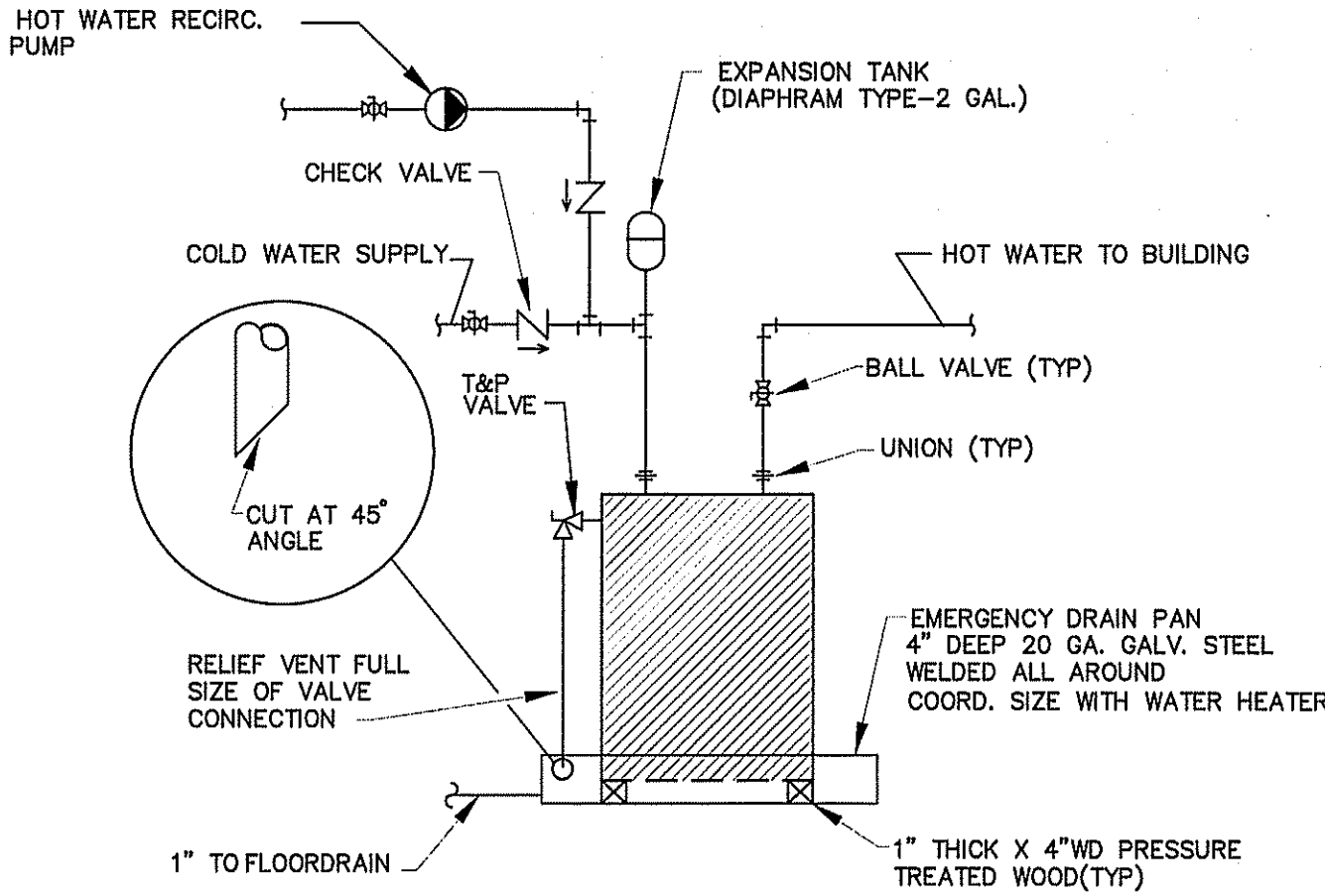
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SHEET NO.
P-1 OF 2

PLUMBING LEGEND		
DESCRIPTION	SYMBOL	
COLD WATER	_____	CW
HOT WATER	_____	HW
COLD WATER (FILTERED)	_____	
RECIRCULATED WATER	→	HWR
VENT PIPING	_____	V
WASTE PIPING	_____ DOMESTIC _____ GREASE	W
CLEAN OUT IN GRADE	⊠	C.O.I.G.
FLOOR CLEAN OUT	○	F.C.O.
NON FREEZE HOSE BIBB	→ H	NFHB
FLOOR DRAIN	○	F.D.
CHECK VALVE	⌞	
BALL VALVE	⊗	
GATE VALVE	⊗	
SHUT-OFF VALVE	⊗	
DOUBLE CHECK VALVE	⌞⌞	
FIXTURE DESIGNATION	P---	
MOUNTING HEIGHT	MH	
POINT OF CONNECTION NEW TO EXISTING	⊙	
FLOOR SINK	⊠	
SHOCK ABSORBER W/BALL VALVE SHUT-OFF	→ SA	SIZE PER MANUF. RECOMMENDATIONS
CHANGE IN PIPE SIZE	→	



DETAIL-CLEAN OUT AT GRADE
NOT TO SCALE



DETAIL-WATER HEATER
NOT TO SCALE

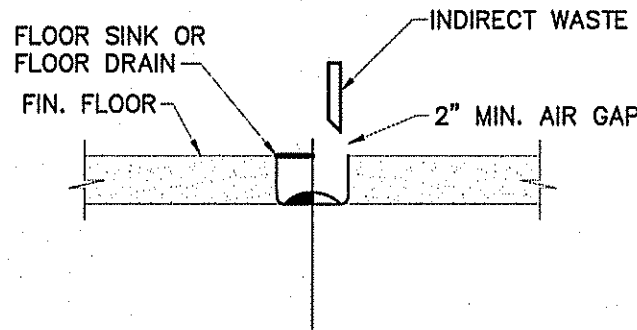
PLUMBING FIXTURE SCHEDULE

MARK	MAKE	MODEL	DESCRIPTION	NOTES
P-1	AMERICAN STANDARD	CADET 2467.016	EL 1.6/P.A 16.5"HC ELONGATED WATER CLOSET HC ACCESSIBLE, TANK TYPE	WHITE 5321.110 SEAT
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P-6	JOHN BOOS & CO.	PBHS-14-SS	PRO BOWL HAND SINKS W/SIDE SPLASH	
P-7	AVANTCO	178CPSS47HC	STAINLESS STEEL DELUXE ICE CREAM DIPPING CABINET	
P-8	NOBLE	NOBLE UH30-E	STAINLESS STEEL DISHWASHER	
P-9	WATTS	WD-210	IN FLOOR GREASE INTECEPTOR	MINIMUM OF 200 LB. & 100 G.P.M.
P-10	JOSAM	30003-C	FLOOR DRAIN	PROVIDE W/ NON-CLOG STRAINER & BUCKET, NIKALOY STRAINER, INSIDE CAULK OUTLET & TRAP GUARDS WHERE REQUIRED.
P-11		FLOOR SINK		

* OR EQUAL; VERIFY ALL FIXTURES WITH OWNER BEFORE PURCHASING OR INSTALLING;

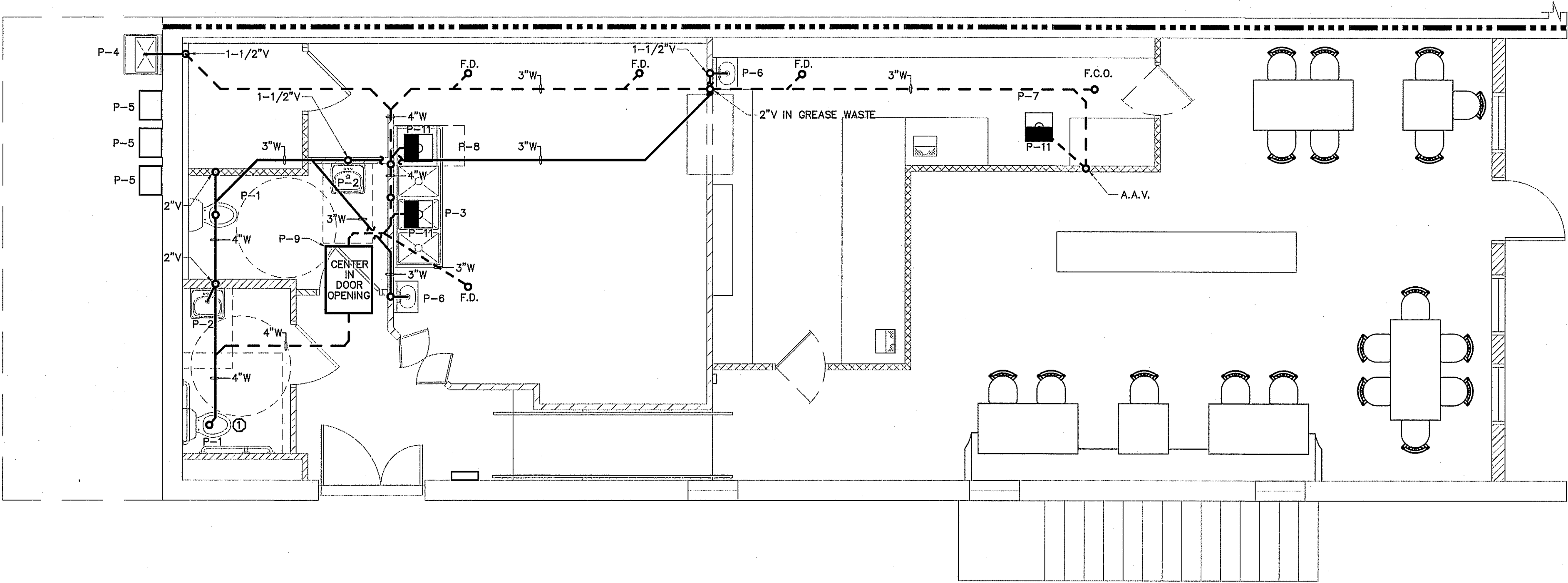
GENERAL PLUMBING NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
- CONTRACTORS SHALL COORDINATE PIPING WITH ALL OTHER TRADES.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS FOR DIMENSIONS.
- CONTRACTOR SHALL FURNISH AND INSTALL DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
- CONTRACTOR SHALL FURNISH AND INSTALL ESCUTCHEONS AND COVER PLATES AT ALL FINISHED WALLS, CEILINGS AND FLOOR OPENINGS.
- PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH STATE AND LOCAL CODE. (REFER TO SPECIFICATIONS.)
- ALL PIPING SHALL BE TESTED FOR LEAKS. IF ANY LEAKS ARE DETECTED THE PIPING SHALL BE REPAIRED, RESOLDERED OR REPLACED AND RETESTED.
- ALL SOLDER SHALL BE OF THE LEAD FREE TYPE.
- WATER HEATER SHALL BE SUPPLIED WITH FACTORY INSTALLED T&P VALVES AND SHALL HAVE UNIONS AND ISOLATION VALVES.
- DOMESTIC WATER SUPPLY PIPING SHALL BE COPPER OR CPVC. PEX IS ALLOWED WHERE PERMITTED BY CODE.
- WASTE AND VENT PIPING SHALL BE SCH. 40 PVC OR HEAVY DUTY CAST IRON UNDER TRAFFIC AREAS.
- INSTALL THERMOSTATICALLY CONTROLLED MIXING VALVES AS NEEDED TO ENSURE HOT WATER TEMPERATURE TO ALL HAND WASHING LOCATIONS DOES NOT EXCEED 110°F.
- ALL FLOOR DRAINS & HUB DRAINS SHALL BE PROVIDED WITH TRAP PRIMER EXCEPT FLOOR DRAINS IN TOILETS WHERE HOSE BIBS ARE PROVIDED.
- HOT WATER PIPING SHALL BE INSULATED WITH 1" THICK FIBROUS GLASS INSULATION. COLD WATER PIPING SHALL BE INSULATED WITH 1/2" FIBROUS GLASS INSULATION. VAPOR BARRIER SHALL BE APPLIED TO EACH.

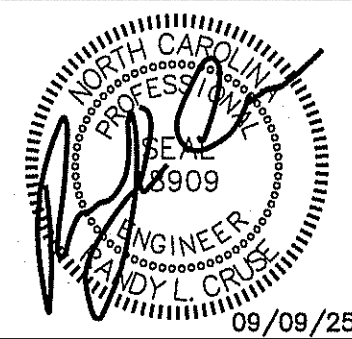


INDIRECT/FLOOR SINK DETAIL
NOT TO SCALE

① TIE 4"W INTO EXISTING WASTE LINE

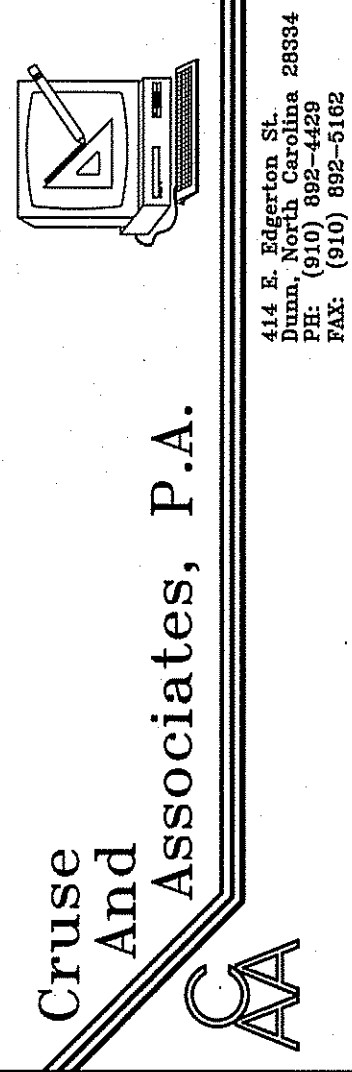


PLUMBING WASTE & VENT PIPING PLAN
SCALE: 1/4" = 1'-0"



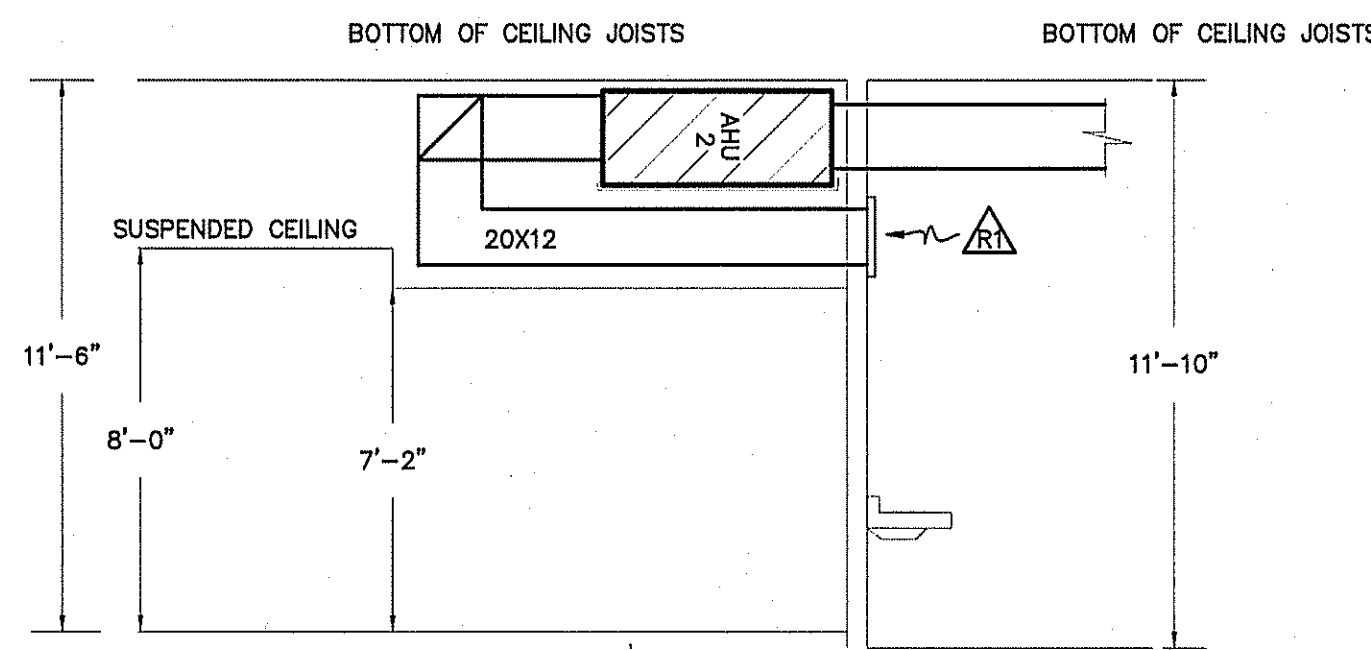
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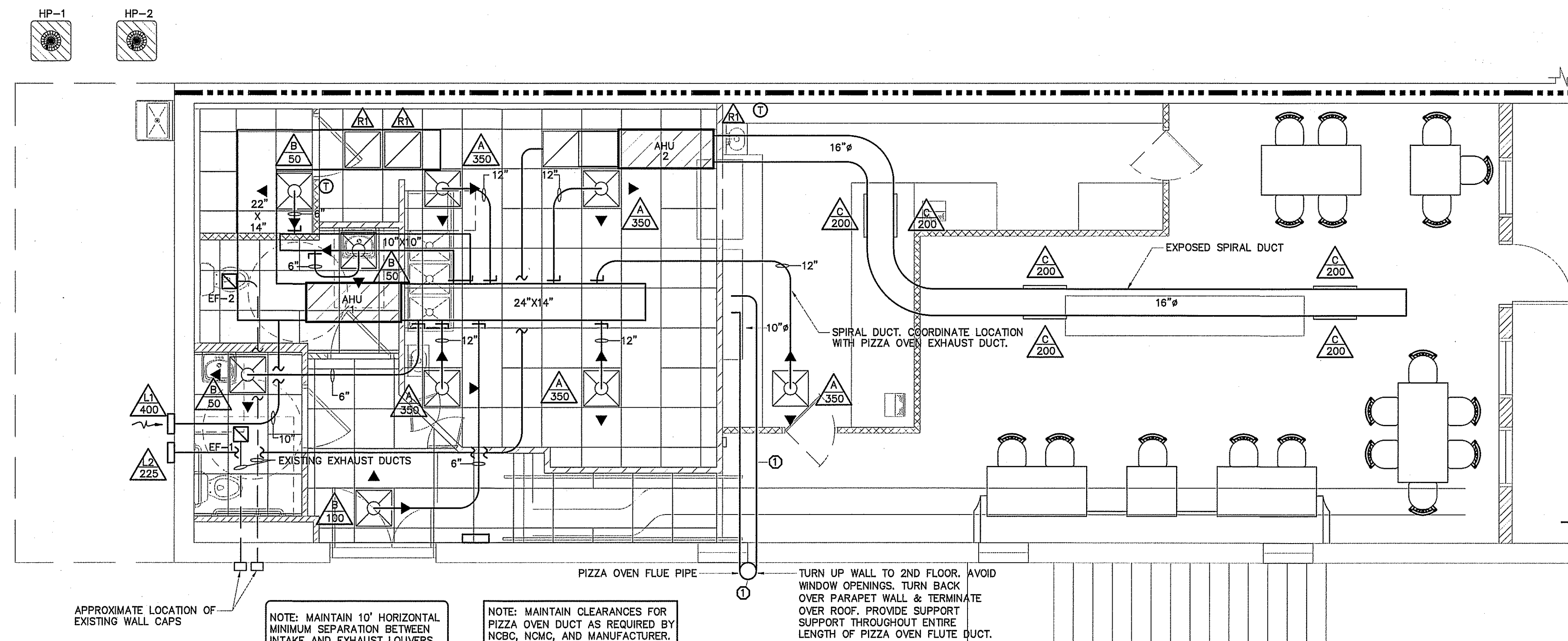
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P-2 OF 2



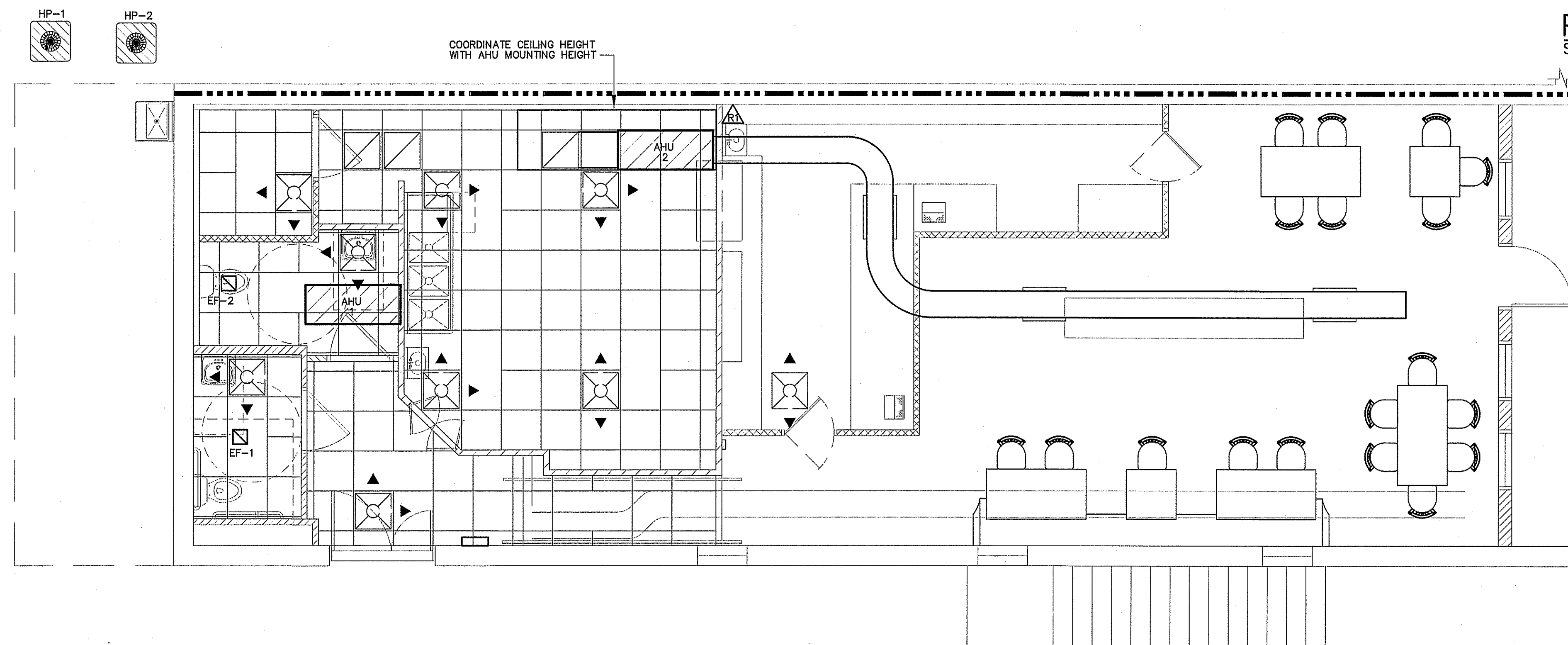
AHU-2 DETAIL
SCALE: N.T.S.

MECHANICAL SYMBOL LEGEND

SINGLE LINE	DOUBLE LINE	DESCRIPTION
		TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK
		END CAP
		DUCT SMOKE DETECTOR
		ACCESS DOOR DOOR SIZE DUCT HEIGHT 8X8 10" 10X10 12" 12X12 14" & LARGER
		VOLUME CONTROL DAMPER (TYP)
		CEILING DIFFUSER
		FLEXIBLE DUCTWORK (14' MAX.)
		ONE SIDED REDUCING TRANSITION
		F.D.=FIRE DAMPER (1-1/2)=RATED FOR 1-1/2 HRS.
		RETURN AIR OR EXHAUST GRILLE
		SUPPLY AIR CEILING DIFFUSER, ARROW INDICATES DIRECTION OF BLOW & ACTIVE DIFFUSER SIDES (1-WAY) (2-WAY) (3-WAY) (4-WAY)
		(1)CUSHION HEAD @ BRANCH OR DIFFUSER RUNOUT (2)CUSHION HEAD IS EQUAL TO 1-1/2 WIDTH OF THE BRANCH DUCT OR DIFFUSER RUNOUT
		R.A. OR EXHAUST DUCT TURNS DOWN @ 90 DEGS.
		MANUAL VOLUME CONTROL DAMPER W/ QUADRANT LOCKING DEVICE
		TWO SIDED TRANSITION
		ELECT. DUCT INSERT HEATER WITH CONTROL PANEL
		AHU W/FLEXIBLE CONNECTION AT SUPPLY AND RETURN DUCT
		KEY NOTE
		CFM-DIFFUSER, REGISTER OR GRILLE (SEE SCHEDULE)
		EXHAUST FAN

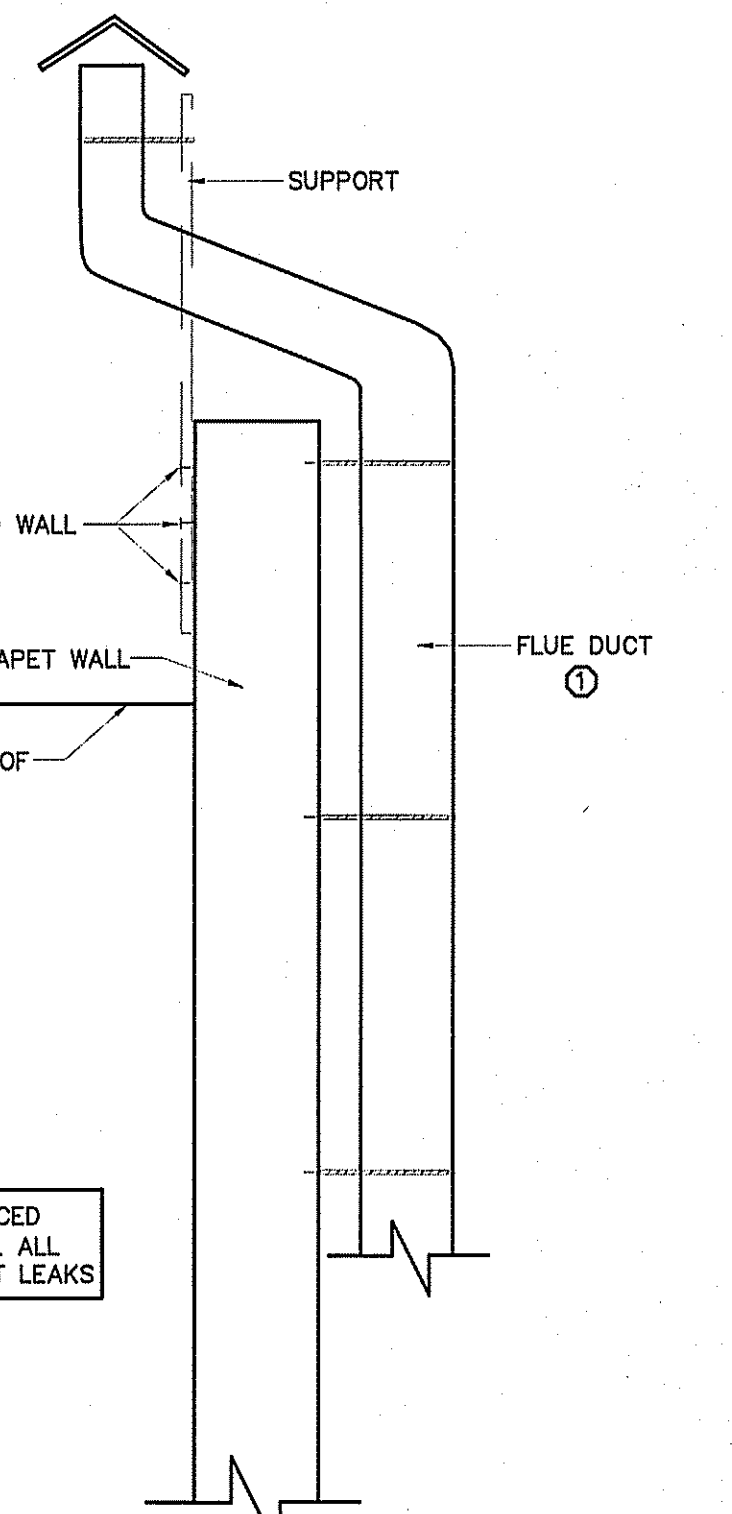
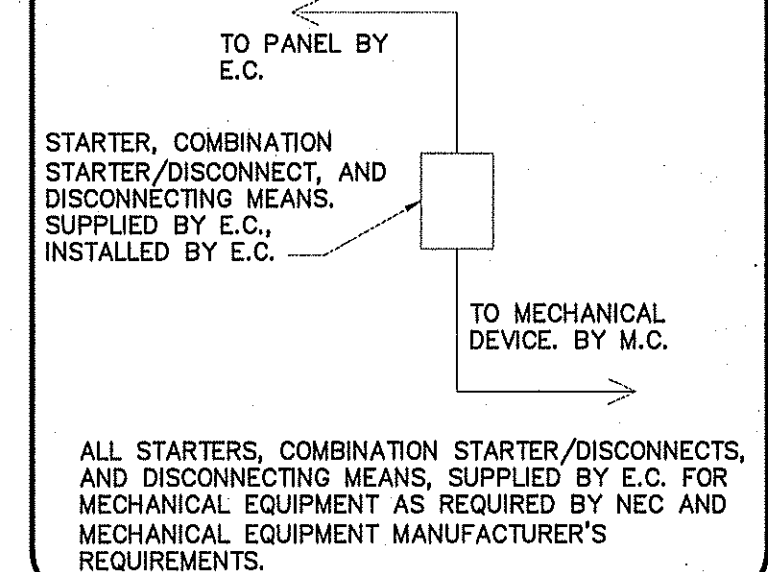


MECHANICAL HVAC PLAN
SCALE: 1/4" = 1'-0"

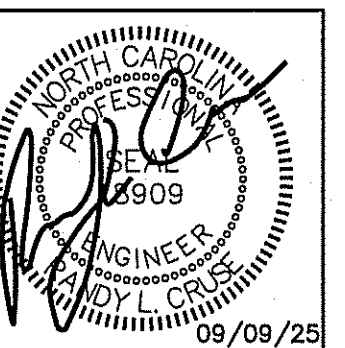


MECHANICAL REFLECTIVE CEILING PLAN
SCALE: 1/4" = 1'-0"

CONNECTION SCHEDULE

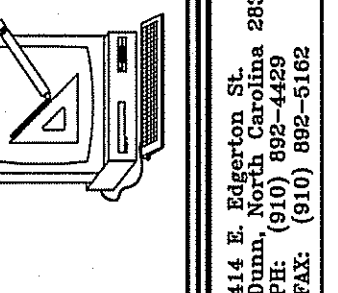


PIZZA OVEN FLUTE DETAIL
SCALE: N.T.S.



PROPOSED UP-FIT FOR:
RUMBLE PIZZA
215 EAST BROAD STREET
DUNN, NORTH CAROLINA 28334

REVISIONS
NO.



Cruse and Associates, P.A.

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JOB NO. 25-20

SHEET NO.
M-1 OF 3

AIR HANDLER UNIT																			SPLIT SYSTEM HEAT PUMP UNITS									
AHU NO.	MANUFACTURER	MODEL	VOLTAGE	E.S.P.		CFM	UNIT FLA	REF LINES		SEER	HTR KW (240)	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		HSPF	MIN. CIRC. AMPACITY	M.O.C.P.	MARK	MANUF.	MODEL	VOLTAGE	# COMP.	MIN. CIRC. AMPACITY	M.O.C.P.	UNIT FLA.	ACCESSORIES	
								GAS	LIQ.			TOTAL	SENS.	HIGH	LOW													
AHU-1	TRANE	TEM4A0C80S51SAA	240/1/60	.46	N/A	2000	40.0	1-1/8	3/8	15.2	9.6	57.3	42.6	54.9	36.2	8.5	58	60	HP-1	TRANE	4TWR7060A1000CA	240/1/60	1	41	60	33.4	EXCLUDE 8,18	
AHU-2	TRANE	TEM4A0B42S31	240/1/60	.46	N/A	1200	32.0	7/8	3/8	14.8	7.68	38.4	26.8	34.0	22.4	9.0	45	45	HP-2	TRANE	4TWR5036N1000	240/1/60	1	18	30	14.8	EXCLUDE 8,18	

** PROVIDE OUTDOOR THERMOSTAT TO LOCK OUT SUPPLEMENTAL ELECTRIC HEAT AT OUTDOOR TEMPERATURES ABOVE 40F.

- ACCESSORIES:
1. TIME-DELAY RELAY
 2. CYCLE PROTECTOR
 3. EVAPORATOR FREEZE PROTECTOR
 4. ISOLATION RELAY
 5. TAY
 6. HIGH PRESSURE SWITCH
 7. LIQUID SOLENOID VALVE
 8. LOW-AMBIENT CONTROLLER
 9. FILTER DRIER (LIQUID LINE)
 10. OUTDOOR T-STAT TO LOCK OUT AUX. HT. (SET @ 40° F ADJ)
 11. LOW PRESSURE CONTROL
 12. CRANKCASE HEATER
 13. DISCHARGE LINE MUFFLER
 14. SUCTION AND LIQUID LINE SHUT OFF VALVES
 15. THERMOSTAT (SEE NOTE)
 16. SUPPORT FEET
 17. COIL GUARDS
 18. HUMIDISTAT
- COOLING CAPACITY @ 80 DEG. F DB/67 DEG. F WB AIR ENTERING INDOOR UNIT & 85 DEG. F DB AIR ENTERING OUTDOOR UNIT
HEATING CAPACITY: HIGH TEMP = 70 DEG. F DB INDOOR EAT & 47 DEG. F DB/45 DEG. F WB AIR ENTERING OUTDOOR UNIT
LOW TEMP = 70 DEG. F DB INDOOR EAT & 17 DEG. F DB/15 DEG. F WB ENTERING OUTDOOR UNIT
- T-STAT: THE NUMBER OF STAGES OF HEATING/COOLING SHALL MATCH THE NUMBER OF STAGES OF HEAT AVAILABLE IN THE HPU OR THE NUMBER OF STAGES OF COOLING AVAILABLE IN THE HPOU. PROVIDE WITH T-STAT; 7 DAY PROGRAMMABLE, DIGITAL.

LOUVER SCHEDULE				
MARK	DESCRIPTION	SERVES	CFM	APPROXIMATE OUTSIDE DIMENSIONS (W X H)
L1	OUTSIDE AIR LOUVER	AHU-1	400	12"x18"
L2	OUTSIDE AIR LOUVER	AHU-2	225	12"x12"

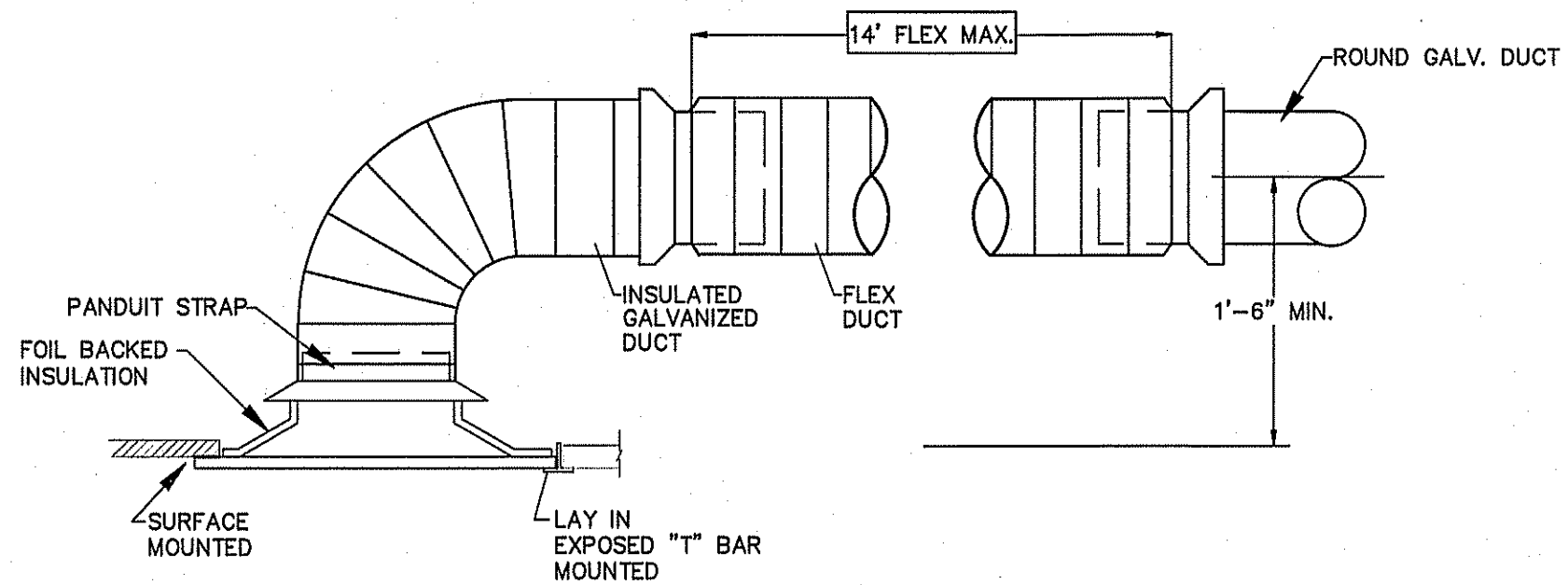
REGISTER, GRILLE, & DIFFUSER SCHEDULE*									
MARK	DESCRIPTION	MAX. NC	NECK	BORDER TYPE	MATERIAL	FINISH	MANUFACTURER	MODEL NUMBER	ACCESSORIES / NOTES
A	DIFFUSER-2-WAY	30	9"x9"	LAY-IN	STEEL	WHITE	TITUS	TDC 9X9 3 26 2	SQ-TO-RND
B	DIFFUSER-2-WAY	30	6"x6"	LAY-IN	STEEL	WHITE	TITUS	TDC 6X6 3 26 2	SQ-TO-RND
C	SIDEWALL DIFFUSER	30	24"x4"	SURFACE	STEEL	WHITE	H & C	SVH	WITH AIR SCOOP
R	RETURN GRILLE	30	20"x20"	LAY-IN	STEEL	WHITE	TITUS	23RFL 24X24 3 26	SQ-TO-RND
R1	RETURN GRILLE	30	20"x20"	SURFACE	STEEL	WHITE	TITUS	23RFL 24X24 1 26	SQ-TO-RND

* VERIFY CEILING TYPE BEFORE ORDERING. NARROW TEE REQUIREMENTS, PLASTER FRAMES ETC. TO BE INCLUDED WITH DIFFUSERS AT NO ADDITIONAL COST TO OWNER

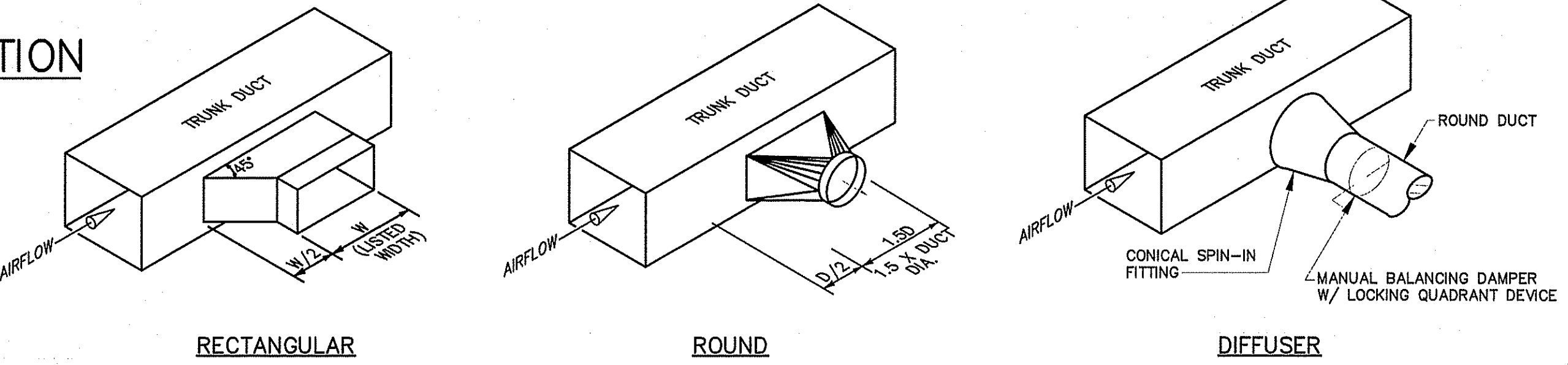
MECHANICAL NOTES (GENERAL)

1. DUCTWORK LAYOUTS ARE SCHEMATIC. ALL RISES, DROPS, OFFSETS, AND TRANSITIONS REQUIRED BUT ARE NOT SHOWN SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW VELOCITY DUCTWORK. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. FLEXIBLE RUNOUTS SHALL NOT EXCEED 15' AND SHALL NOT BE USED TO FORM ELBOWS. CONNECTIONS FROM RECTANGULAR TO ROUND DUCT SHALL BE MADE WITH MANUFACTURED 45 DEG. LATERAL TAPS.
3. ALL DUCTWORK SHALL BE SEALED AIR TIGHT WITH SEALING COMPOUND.
4. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL TURNING VANES. DUCT SIZES SHOWN ARE NET INTERIOR DIMENSIONS.
5. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO INSTALLATION OF ANY OF HIS PIPING, DUCTWORK, OR EQUIPMENT.
6. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
7. IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE AND INTENT MEANING OF THE PLANS AND SPECIFICATIONS. HE SHALL PROVIDE THE ENGINEER SCALED DRAWINGS OF ALL MECHANICAL DRAWINGS.
8. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.
9. PROVIDE FACTORY OR FIELD INSTALLED DRAIN PANS UNDER ALL COOLING COIL UNITS. INSTALL DRAIN PAN FLOAT TO SHUT DOWN UNIT FAN IN EVENT THAT CONDENSATE BEGINS TO FILL EMERGENCY DRAIN PAN. RUN ALL CONDENSATE DRAIN LINES TO APPROPRIATE DRAIN.

EXHAUST FAN SCHEDULE											
MARK	MAKE	MODEL	TYPE	CFM	EXTERNAL S.P. IN (W.G.)	AMPS	ELECTRICAL			NOTES	
							VOLT	PH	HZ		
EF-1,2	GREENHECK	SP-A90	CEILING FAN	70	.125	.34	115	1ø	60	EXISTING WALL CAP	



DETAIL-CEILING DIFFUSER CONNECTION
NOT TO SCALE



TYPICAL LATERAL TO REGISTER OR BRANCH DUCT
NOT TO SCALE

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT THERMAL ZONE 4A - HARNETT COUNTY, NC

WINTER DRY BULB 16 DEG. F.
SUMMER DRY BULB 93 DEG. F.

INTERIOR DESIGN CONDITIONS

WINTER DRY BULB 59 DEG. F.
SUMMER DRY BULB 78 DEG. F.
RELATIVE HUMIDITY 55%

BUILDING HEATING LOAD 35.8 MBH
BUILDING COOLING LOAD 8 TONS

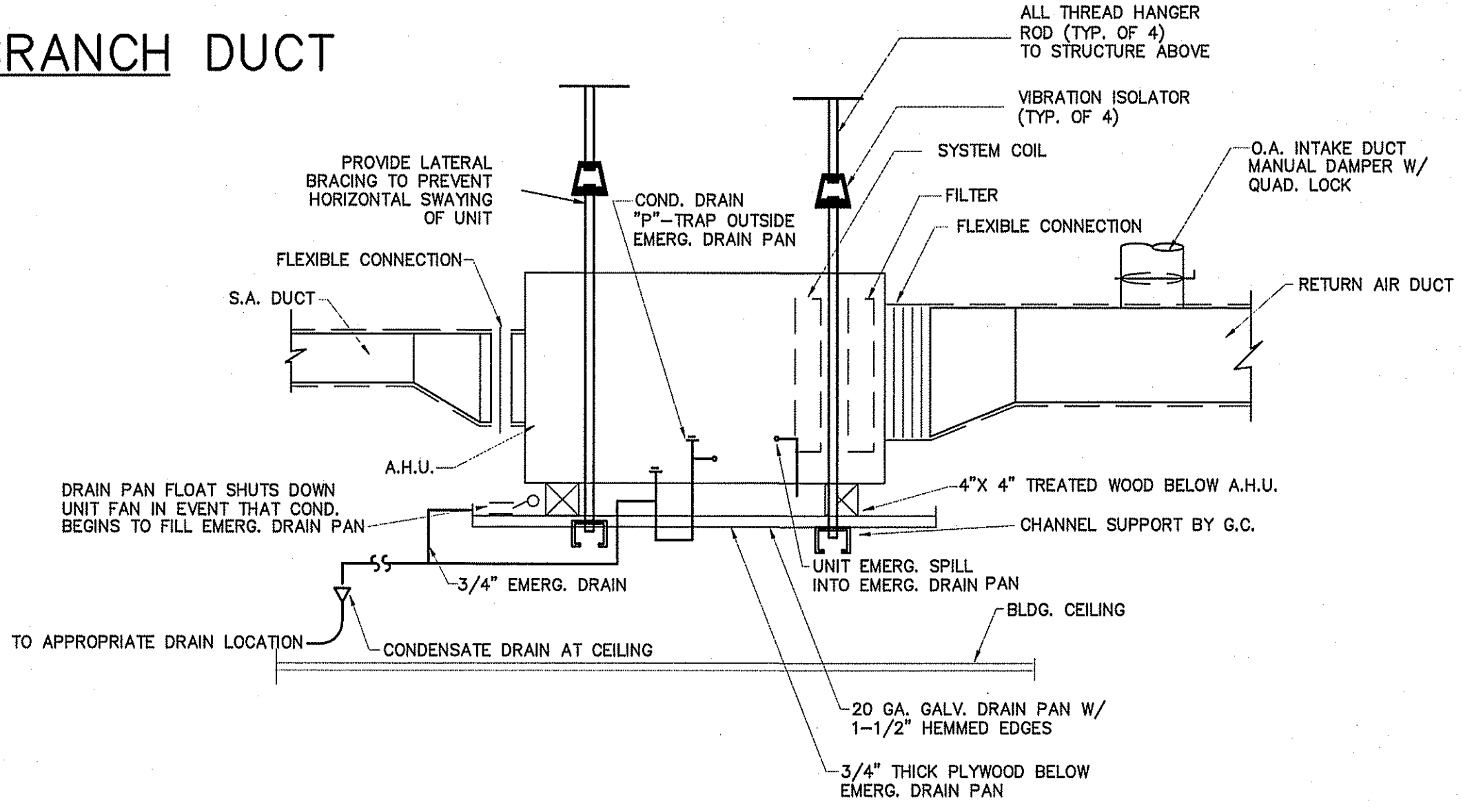
MECHANICAL SPACE CONDITIONING SYSTEM

UNITARY
DESCRIPTION OF UNIT - HEAT PUMP
HEATING EFFICIENCY - 8.5 HSPF
COOLING EFFICIENCY - 15.2 SEER
SIZE CATEGORY OF UNIT - < 65,000 BTUH

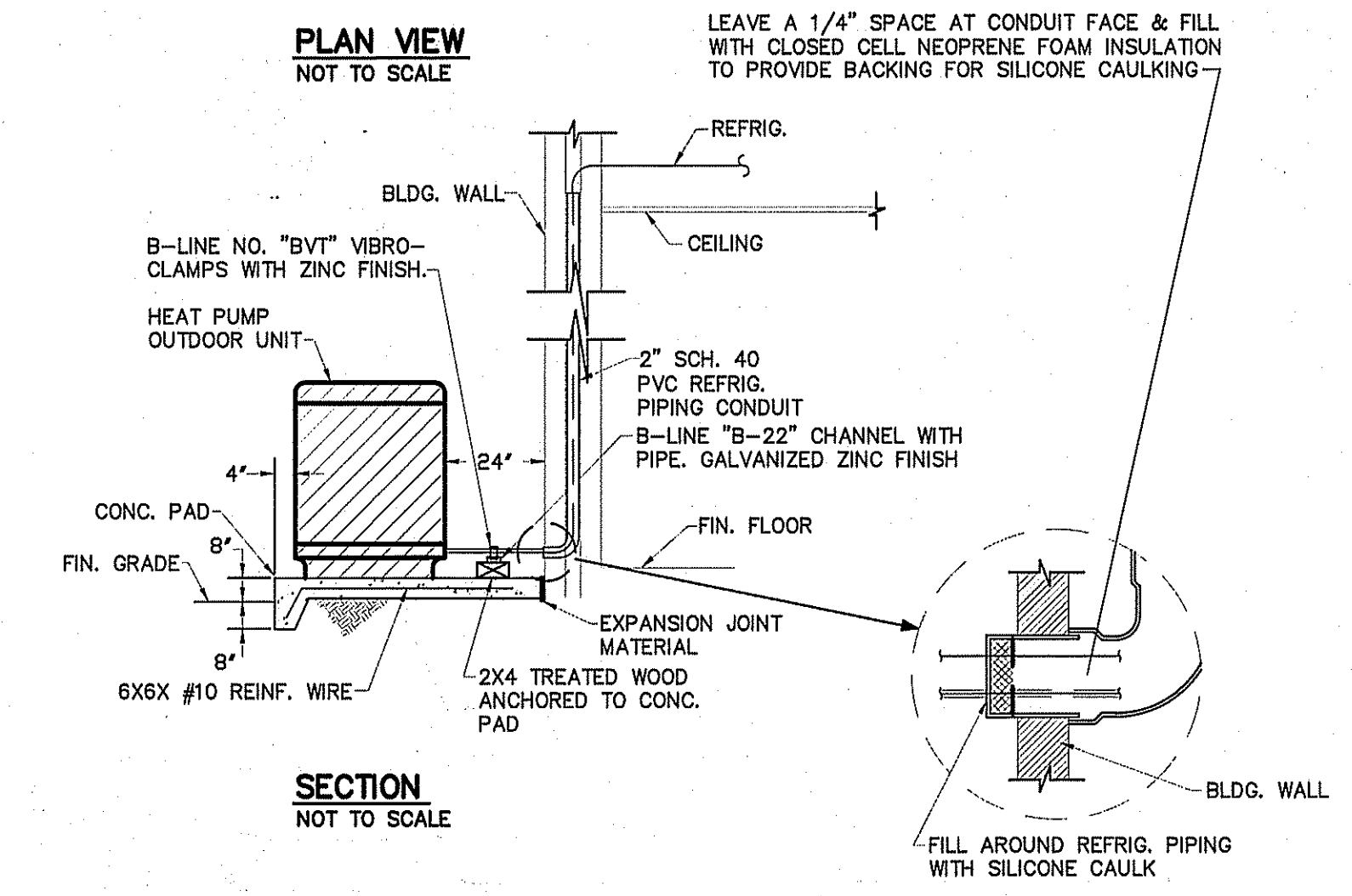
BOILER
SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A

CHILLER
SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A

LIST EQUIPMENT EFFICIENCIES SEE SCHEDULE



TYPICAL DETAIL AT AIR HANDLING UNITS
NOT TO SCALE

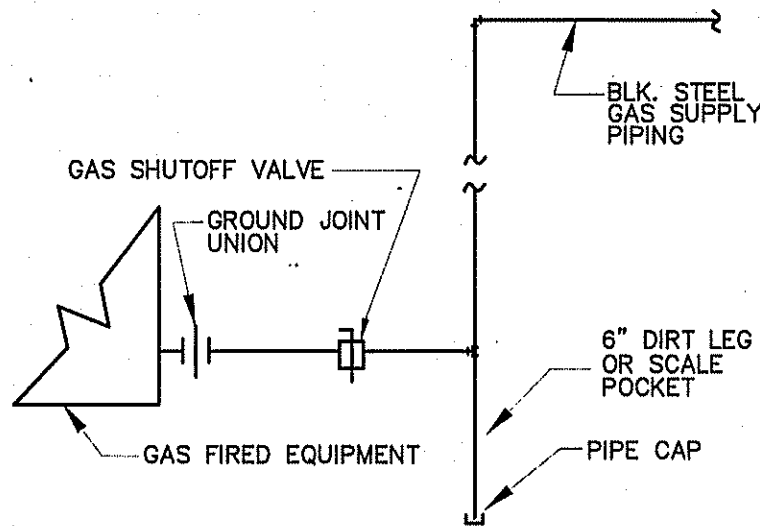


DETAIL-TYPICAL HEAT PUMP
OUTDOOR UNIT
NOT TO SCALE

GAS PIPING SIZING

OUTLET "A"	199	CFH
OUTLET "B"	199	CFH
OUTLET "C"	199	CFH
OUTLET "D"	80.5	CFH
TOTAL	677.5	CFH

LENGTH OF PIPE FROM THE POINT OF DELIVERY TO MOST REMOTE OUTLET (OUTLET "D") IS 50 FT. PIPE SIZED USING 0.5 IN. W.C. DROP AT 11" W.C. SETTING NATURAL GAS, SCHEDULE 40 METALLIC PIPE - CAPACITIES IN CU. FT./HR. TABLE 402.4(2), 2018 NCSFGC



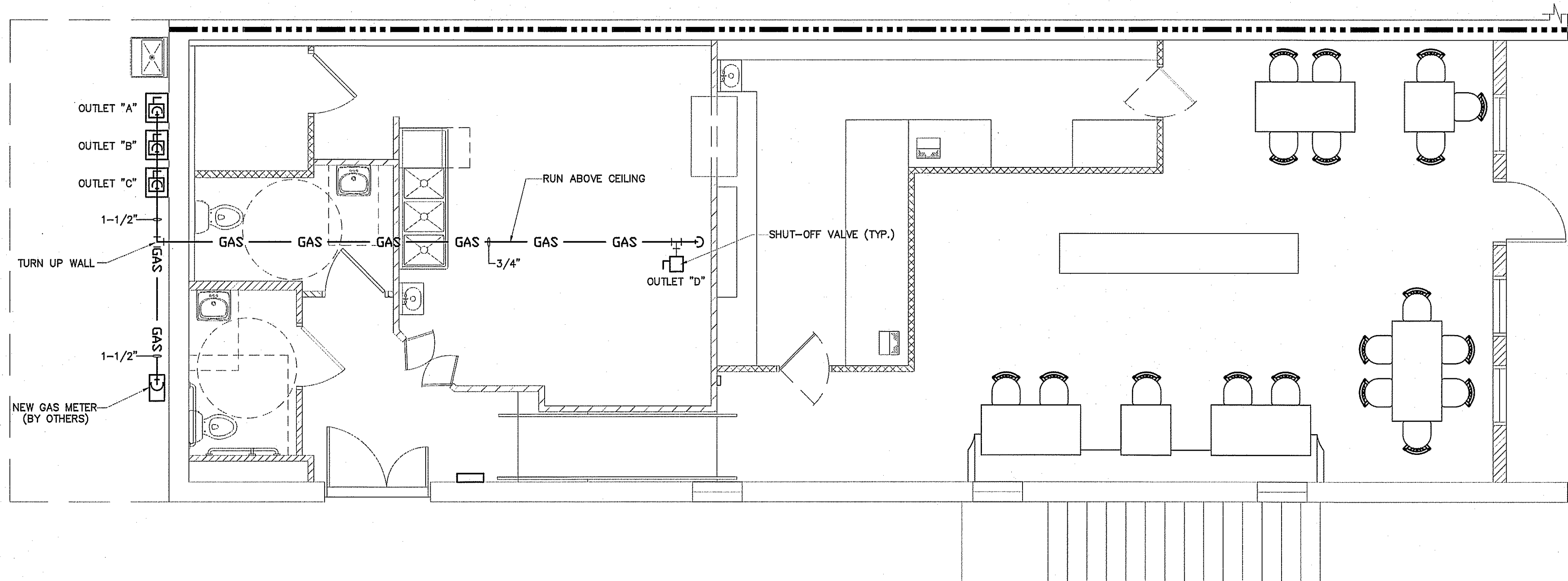
DETAIL-TYPICAL GAS PIPING CONNECTION TO EQUIPMENT
NOT TO SCALE

NOTE

COORDINATE EXACT LOCATION OF WATER HEATERS WITH WALL OPENINGS ON SECOND FLOOR TO MAINTAIN PROPER CLEARANCES.

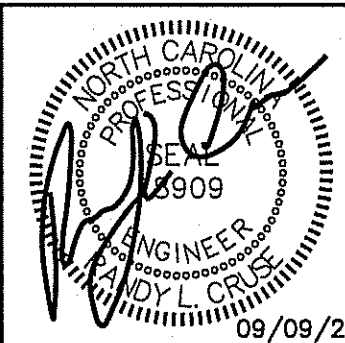
GAS PIPING NOTES

- METALLIC GAS PIPING SHALL BE STEEL PIPE COMPLYING WITH ANSI B36.10, ASTM A 53 OR ASTM A 106. COPPER OR BRASS PIPE IN STEEL PIPE SIZES ASSEMBLED WITH THREADED FITTINGS OF THE SAME MATERIALS MAY BE USED WHEN THE GAS DOES NOT CONTAIN MORE THAN AN AVERAGE OF 0.3 GRAINS OF HYDROGEN SULFIDE PER 100 STANDARD CUBIC FEET OF GAS (A TRACE AS DETERMINED UNDER ASTM D 2385 OR ASTM D 2420). COPPER TUBING OR CSST WILL ALSO BE ALLOWED.
- PIPE JOINTS MAY BE THREADED, FLANGED OR WELDED AND NONFERROUS PIPE MAY ALSO BE BRAZED WITH MATERIALS HAVING A MELTING POINT IN EXCESS OF 1,000 DEGREES F (538 DEGREES C). BRAZING ALLOYS SHALL NOT CONTAIN PHOSPHOROUS.
- TUBING JOINTS SHALL EITHER BE MADE WITH FLARED GAS TUBING FITTINGS, OR BRAZED WITH A MATERIAL HAVING A MELTING POINT IN EXCESS OF 1,000 DEGREES F (538 DEGREES C). BRAZING ALLOYS SHALL NOT CONTAIN PHOSPHOROUS. METALLIC BALL SLEEVE COMPRESSION TYPE TUBING FITTINGS SHALL NOT BE USED FOR THIS PURPOSE INSIDE OR UNDER BUILDINGS BUT MAY BE USED
- FITTINGS (EXCEPT STOPCOCKS OR VALVES) SHALL BE MALLEABLE IRON OR STEEL WHEN USED WITH STEEL OR WROUGHT IRON PIPE AND SHALL BE COPPER OR BRASS WHEN USED WITH COPPER OR BRASS PIPE OR TUBING.
- GAS PIPING AND FITTINGS SHALL BE CLEAR AND FREE FROM CUTTING BURRS AND DEFECTS IN STRUCTURE OR THREADING AND SHALL BE THOROUGHLY BRUSHED AND SCALE BLOWN.
- ALL GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NCSBC FUEL GAS CODE & NFPA 54.
- JOINT COMPOUNDS (PIPE DOPE) SHALL BE APPLIED SPARINGLY AND ONLY TO THE MALE THREADS OF METALLIC JOINTS. SUCH COMPOUNDS SHALL BE RESISTANT TO THE ACTION OF LIQUEFIED PETROLEUM GASES.
- ALL EXPOSED STEEL PIPE/FITTINGS SHALL BE PRIMED AND PAINTED FOR PROTECTION. GRADE ALL GAS PIPING AT 1/4" PER 10' TOWARD LOW POINT.
- SHUTOFF VALVES (STOP COCKS) SHALL COMPLY WITH ANSI Z21.15, ANSI Z21.21, OR ANSI B16.33 OR ANSI/UL 842. ALL VALVES SHALL BE MANUAL. HOUSE VALVE SHALL BE EQUIPPED WITH LOCKING LUGS FOR SECURITY.



GAS PIPING PLAN

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



PROPOSED UP-FIT FOR:

RUMBLE PIZZA

215 EAST BROAD STREET

DUNN, NORTH CAROLINA 28334

REVISIONS

NO.	

Cruse And Associates, P.A.

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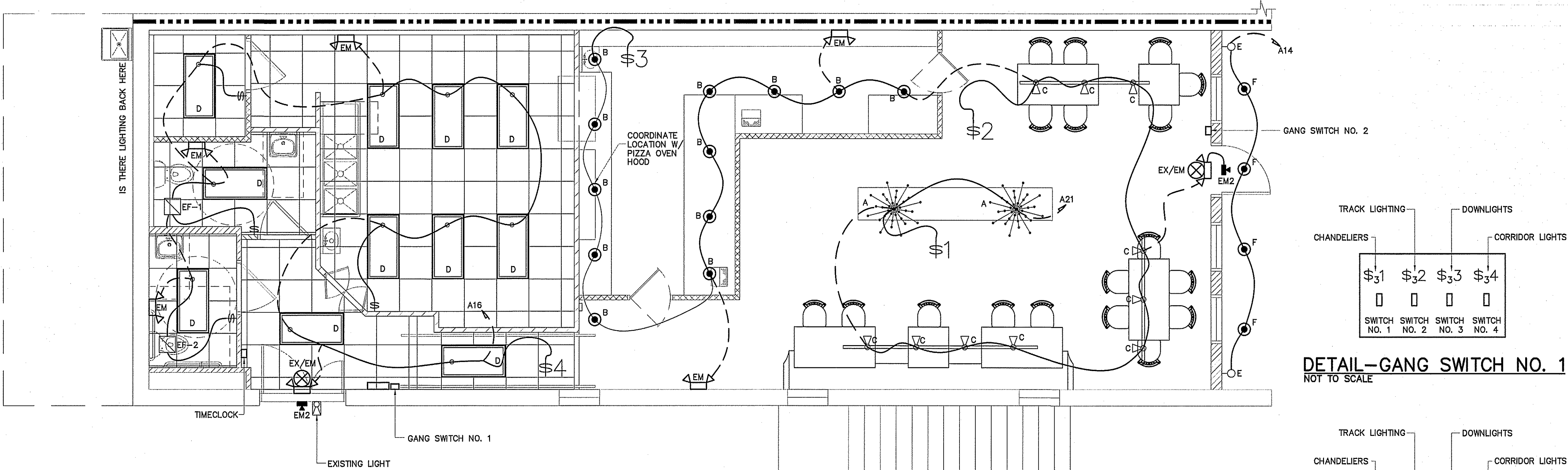
SHEET NO.
M-3 OF 3

LIGHTING DATA FOR ENERGY CODE					
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER
RESTAURANT	1550	1.5	2325	1163	1162
TOTAL	1550		2325	1163	1162

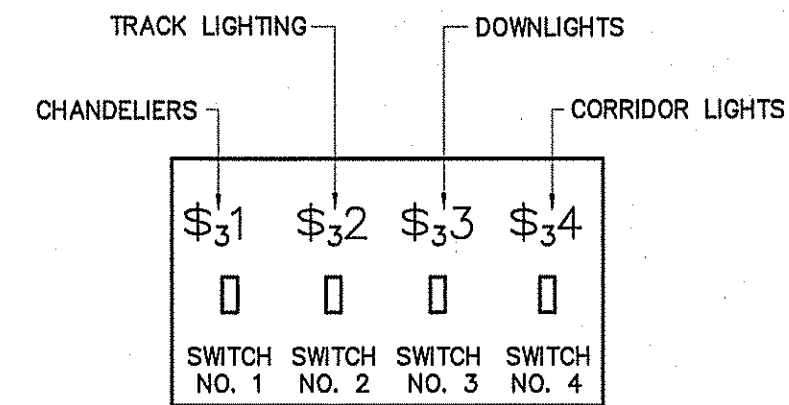
MARK	DESCRIPTION
WP	'GFI' DUPLEX WITH WEATHERPROOF COVER
GFI	GROUND FAULT INTERRUPTING RECEPTACLE
IG	208V OR 240 V RECEPTACLE
T	TELEPHONE/DATA OUTLET
J	JUNCTION BOX
FDS	FUSED DISCONNECT SWITCH
FB	"STEEL CITY" FLOOR BOX WITH CAT 5E CABLE FOR DATA
↗	SWITCHED BRANCH CIRCUIT
↘	UNSWITCHED BRANCH CIRCUIT
↔	120/208 VOLT CIRCUIT
⌋	CEILING OR ATTIC MOUNTED DUPLEX RECEPTACLE
⌋/O	LIGHT FIXTURE (WALL/CEIL.)
FL	FLUORESCENT FIXTURE
FL N/L	UNSWITCHED FIXTURE
⊗	'EXIT' LIGHT FIXTURE, TYPE 'EX'
⌋	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
\$	SINGLE-POLE SWITCH
\$ ₃₍₄₎	3-WAY SWITCH (4-WAY SWITCH)
⌋	DUPLEX RECEPTACLE
⌋	CEILING MOUNTED RECEPTACLE
⌋	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)
\$ _o	WALL MOUNTED OCCUPANCY SENSOR WITH SWITCH
⊙ _o	CEILING MOUNTED OCCUPANCY SENSOR

LIGHT FIXTURE SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS
A	LED CHANDELIER SELECTED BY OWNER			LED		100.0	TO BE DIMMABLE
B	INTERIOR 6" LED DOWN LIGHT			LED		20.5	
C	TRACK LIGHTING			LED		21	BASED ON (1) LED HEAD PER LINEAR FOOT OF TRACK
D	2X4 LED FLAT PANEL SURFACE MOUNTED FIXTURE	LITHONIA	CPANL 2X4 AL06 SWW7 M2 40/50/60LM 35K-40LM	LED		52.0	
E	EXTERIOR WALL SCONCE			LED		25.0	ON TIMECLOCK
F	6" EXTERIOR DOWN LED LIGHT			LED		25.0	ON TIMECLOCK
EM	EMERGENCY LIGHT WITH BATTERY BACKUP	SURE-LITES	CC8MRT2142SM				
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	SURE-LITES	LPX 70 RWH 120/277				
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	SURE-LITES	12T-12-WWH OR 12T-12-DWWH OR EQUAL				

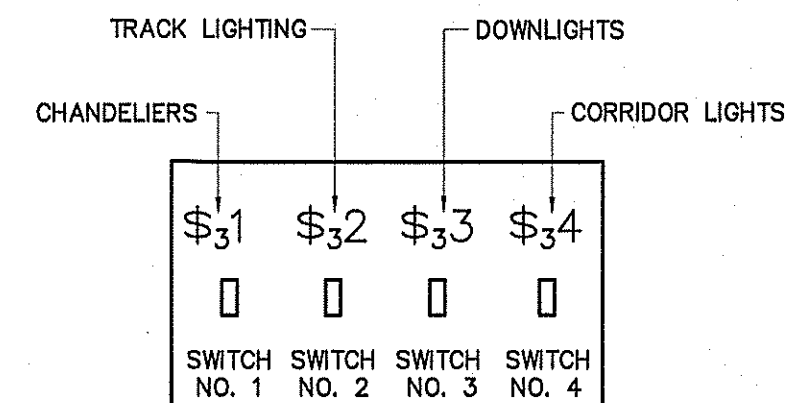
FIXTURES SELECTED BY OWNER AND PURCHASED BY CONTRACTOR
* BEFORE PURCHASING, VERIFY EXTERIOR FIXTURES MEET ZONING ORDINANCE



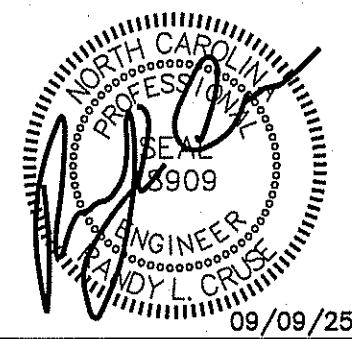
ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"



DETAIL-GANG SWITCH NO. 1
NOT TO SCALE



DETAIL-GANG SWITCH NO. 2
NOT TO SCALE



PROPOSED UP-FIT FOR:
RUMBLE PIZZA
215 EAST BROAD STREET
DUNN, NORTH CAROLINA 28334

REVISIONS	
NO.	

Cruse And Associates, P.A.

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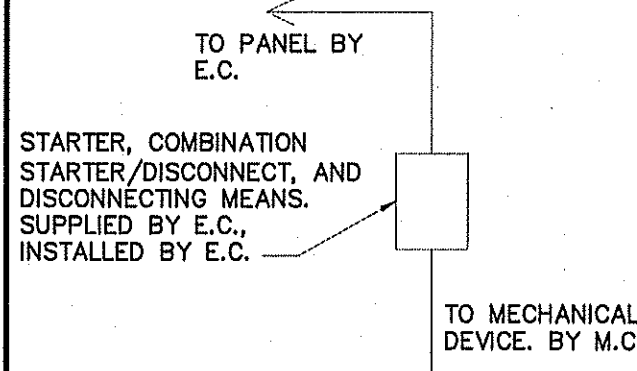
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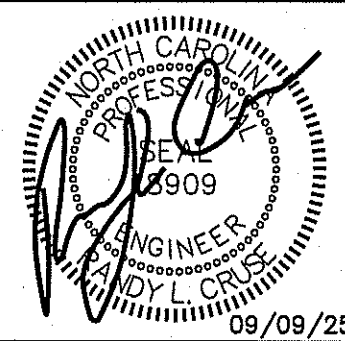
SHEET NO.
E-1 OF 3

ELECTRICAL LEGEND	
MARK	DESCRIPTION
⌚ WP	"GFI" DUPLEX WITH WEATHERPROOF COVER
⌚ GFI	GROUND FAULT INTERRUPTING RECEPTACLE
⌚ IG	208V OR 240 V RECEPTACLE
◀	TELEPHONE/DATA OUTLET
⌚	JUNCTION BOX
⌚	FUSED DISCONNECT SWITCH
⌚	"STEEL CITY" FLOOR BOX WITH CAT 5E CABLE FOR DATA
↗	SWITCHED BRANCH CIRCUIT
↘	UNSWITCHED BRANCH CIRCUIT
↗↘	120/208 VOLT CIRCUIT
⌚	CEILING OR ATTIC MOUNTED DUPLEX RECEPTACLE
⌚	LIGHT FIXTURE (WALL/CEIL.)
⌚	FLUORESCENT FIXTURE
⌚ N/L	UNSWITCHED FIXTURE
⊗	"EXIT" LIGHT FIXTURE, TYPE "EX"
⌚	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
\$	SINGLE-POLE SWITCH
\$ ₃₍₄₎	3-WAY SWITCH (4-WAY SWITCH)
⌚	DUPLEX RECEPTACLE
⌚	CEILING MOUNTED RECEPTACLE
⌚	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)
\$ _o	WALL MOUNTED OCCUPANCY SENSOR WITH SWITCH
⊙ _o	CEILING MOUNTED OCCUPANCY SENSOR

CONNECTION SCHEDULE



ALL STARTERS, COMBINATION STARTER/DISCONNECTS, AND DISCONNECTING MEANS, SUPPLIED BY E.C. FOR MECHANICAL EQUIPMENT AS REQUIRED BY NEC AND MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS.



PROPOSED UP-FIT FOR:
RUMBLE PIZZA
215 EAST BROAD STREET
DUNN, NORTH CAROLINA 28334

REVISIONS

NO.	

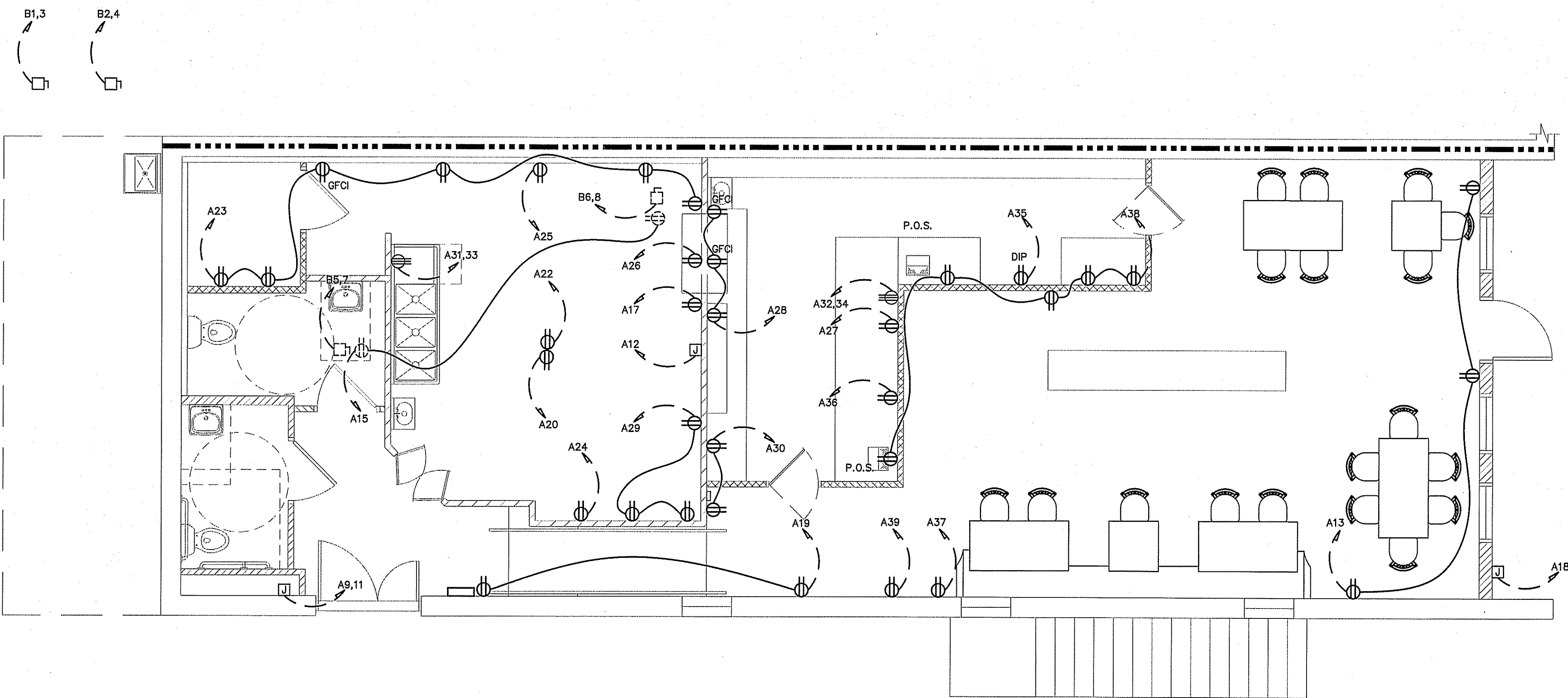
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JOB NO. 25-20

SHEET NO.
E-2 OF 3



NOTE:
E.C., OWNER, AND G.C. TO VERIFY ALL EQUIPMENT LOCATIONS, SPECIFICATIONS, & REQUIREMENTS BEFORE BEGINNING CONSTRUCTION.

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

NOTE:
KITCHEN/WET AREA RECEPTACLES TO BE GFCI.
RECEPTACLES IN PUBLIC AREAS TO BE ARC-FAULT PROTECTED AND/OR TAMPER PROOF I.A.W. 210.12 CURRENT VERSION OF NEC.

