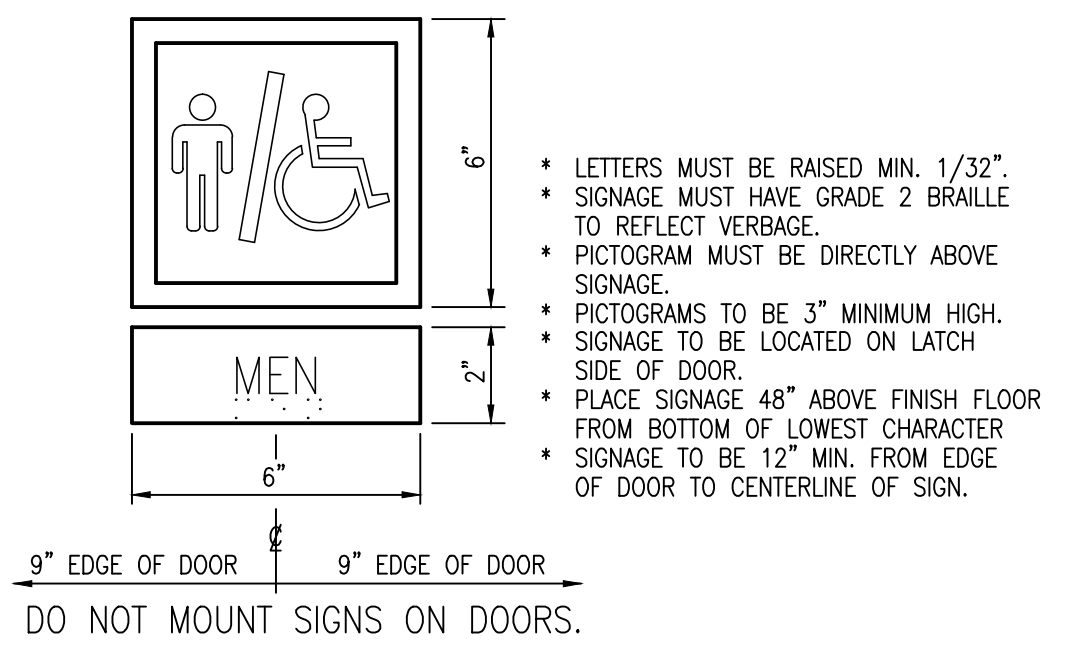
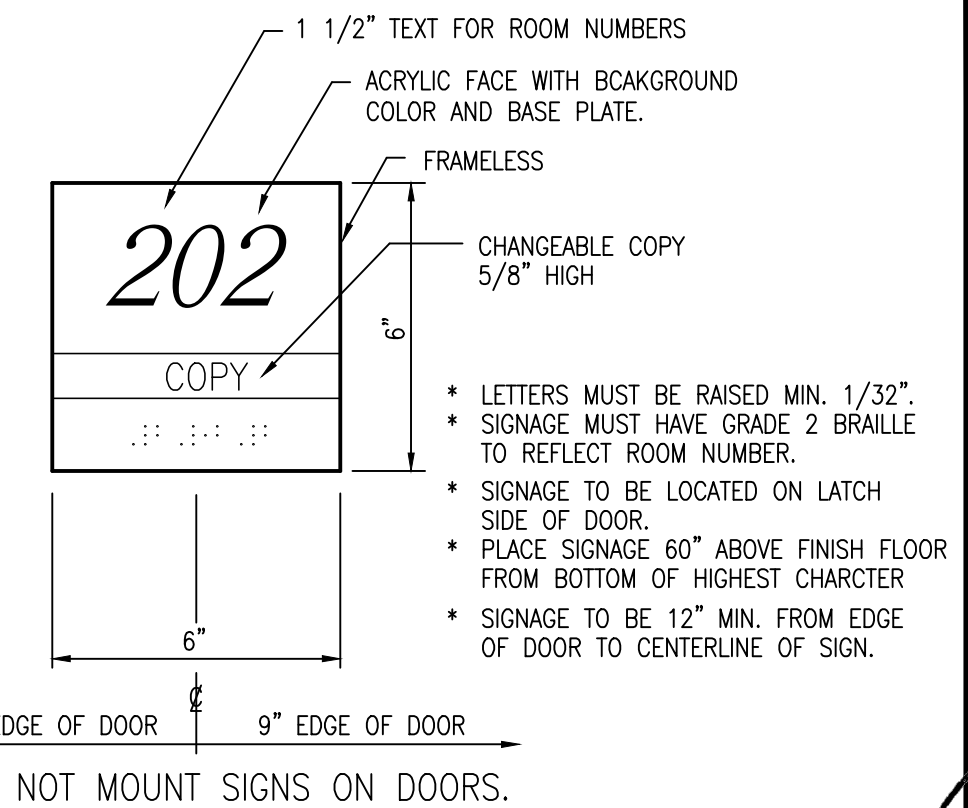


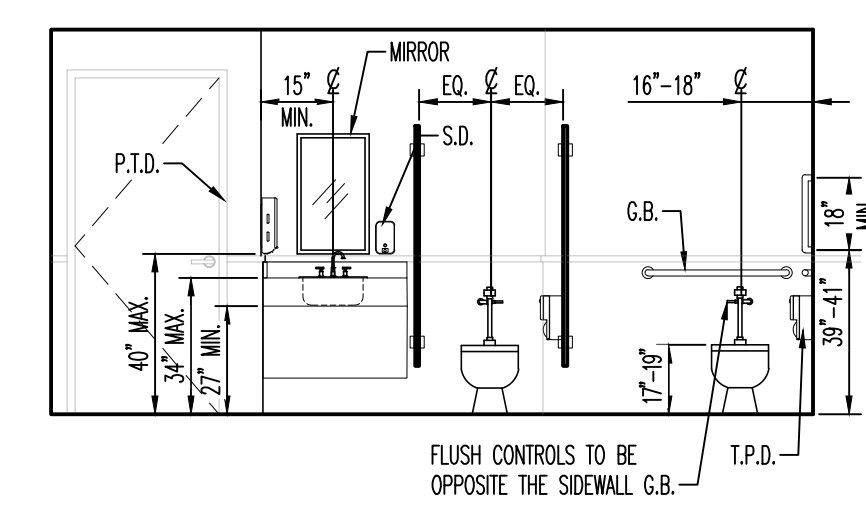
**A1 FLOOR PLAN - LIFE SAFETY**  
SCALE: 3/16" : 1'-0"



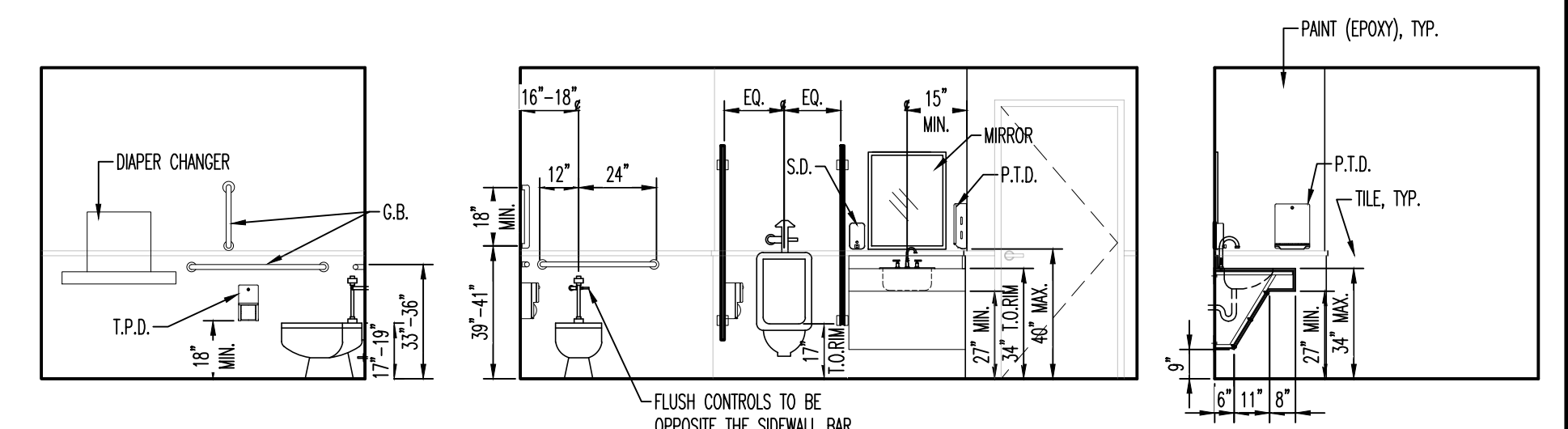
**D5 SIGNAGE**  
SCALE: 3" : 1'-0"



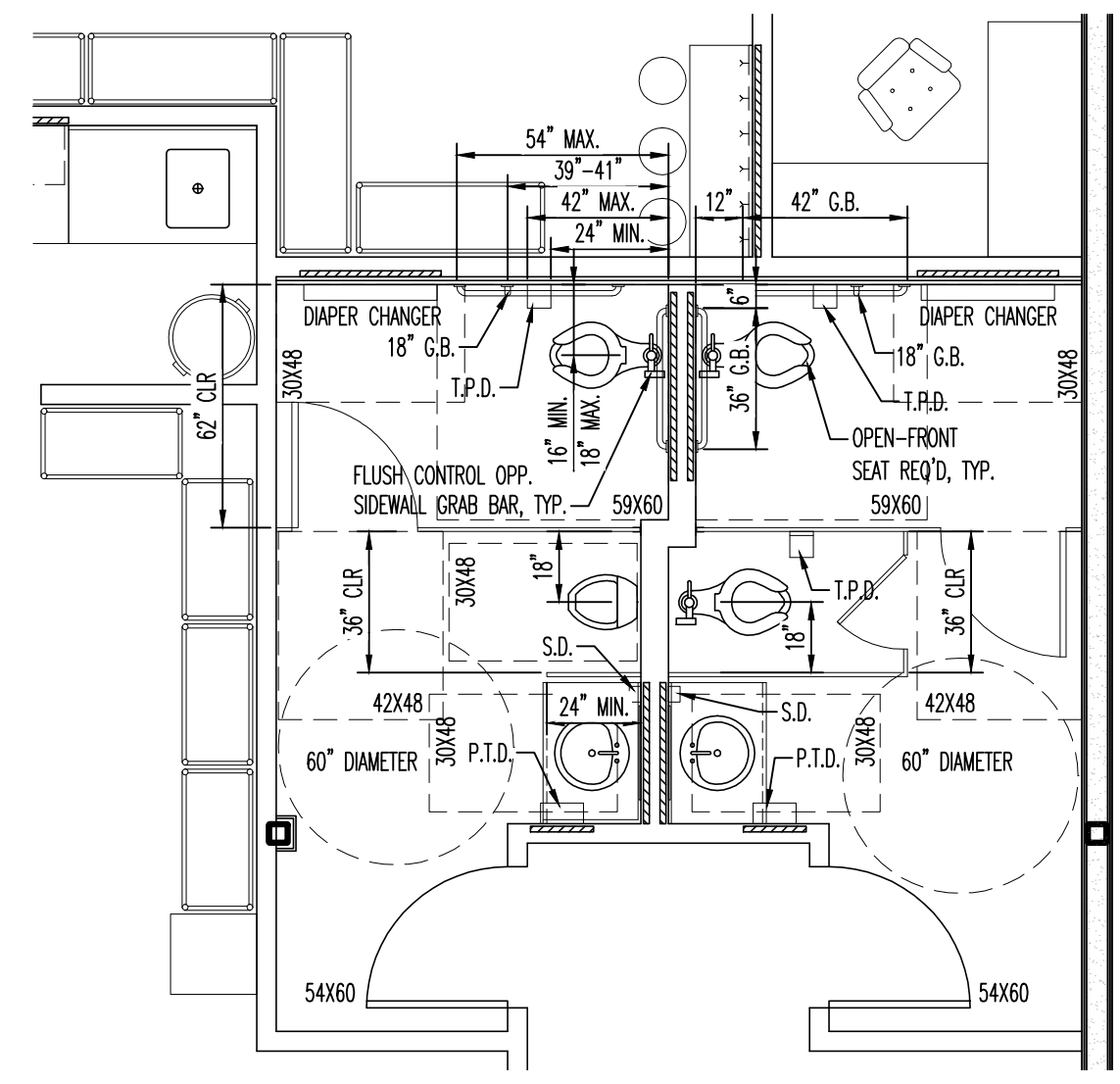
DO NOT MOUNT SIGNS ON DOORS.



**C5 WOMEN'S TOILET ELEVATIONS**  
SCALE: 1/4" : 1'-0"



**B5 MEN'S TOILET ELEVATIONS**  
SCALE: 1/4" : 1'-0"



**A5 GROUP TOILET PLAN**  
SCALE: 1/4" : 1'-0"

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**Designed to Build**  
A Sensible Approach

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**RAYWEST**  
DESIGNBUILD

**EL BURRITO MEXICAN RESTAURANT  
SHOPPES AT SUMMIT**  
1625 BUFFALO LAKE RD  
SANFORD, NORTH CAROLINA

NO.	DATE	DESCRIPTION	BY	CHECK

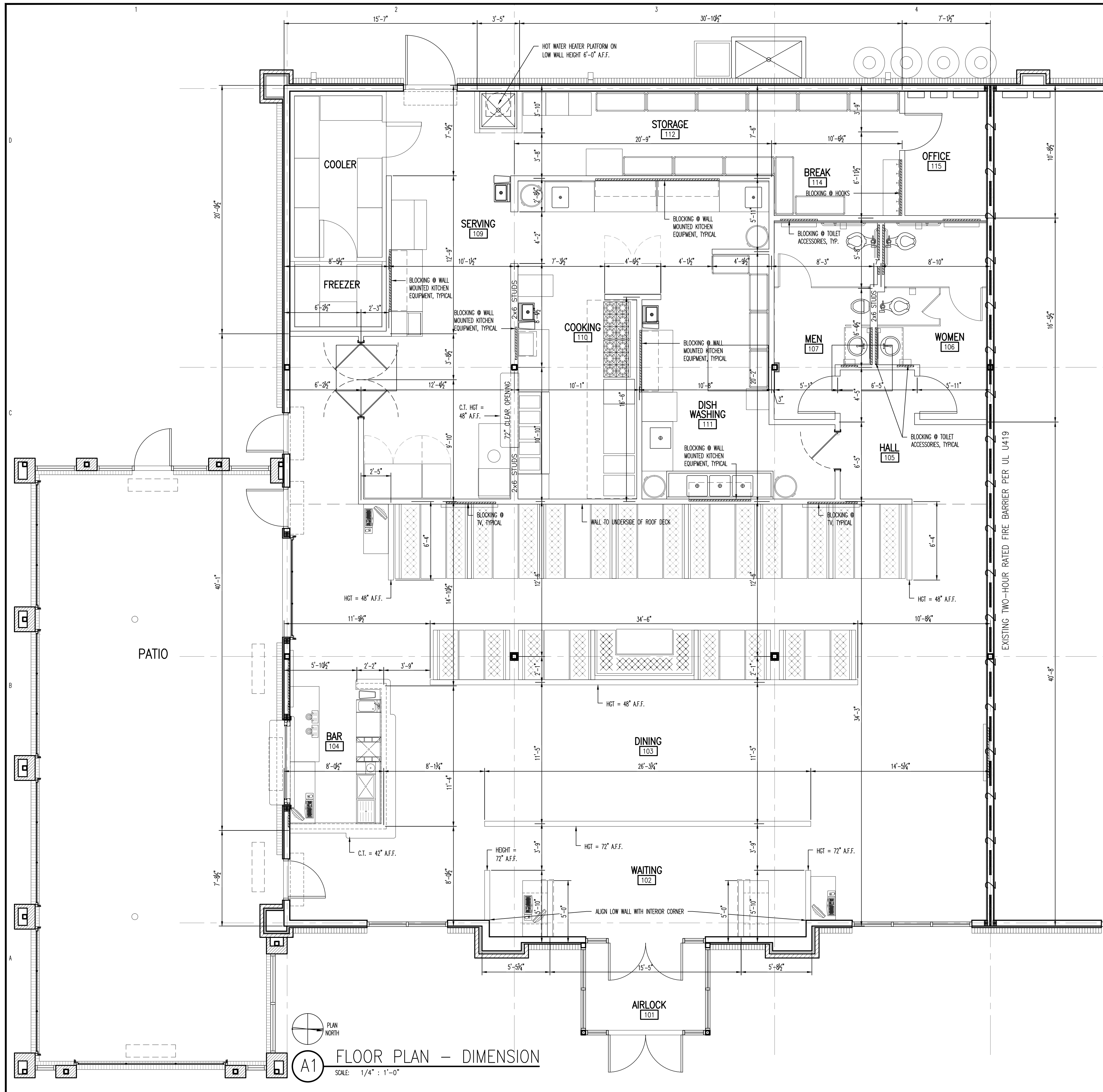
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SHEET TITLE:  
**LIFE SAFETY  
FLOOR PLAN  
ACCESSIBILITY DETAILS**

**G-102**  
SHEET 2 OF 2

EACH CONTRACTOR IS REQUIRED TO INCLUDE ALL MINOR ITEMS, WHETHER OR NOT SHOWN ON PLANS, AS REQUIRED BY CODE AND FOR WORKING SYSTEMS, IN INITIAL COST OF WORK, AND AT NO ADDITIONAL COST TO THE OWNER. ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS BY THE OWNER OR CONTRACTOR MUST BE APPROVED BY THE ARCHITECT IN WRITING AND PRIOR TO CONSTRUCTION. COPYRIGHT © ALL RIGHTS RESERVED BY DESIGNED TO BUILD. NOT TO BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION.





**A1 FLOOR PLAN - DIMENSION**  
SCALE: 1/4" = 1'-0"

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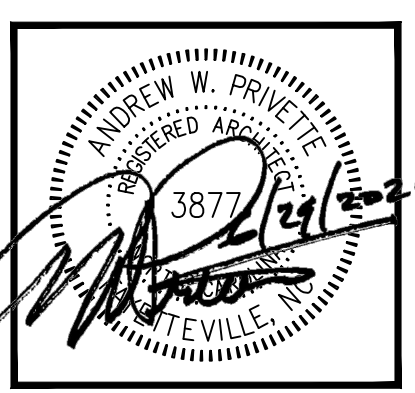
**GENERAL NOTES:**

- A. ALL WORK IS TO BE PERFORMED BY GENERAL CONTRACTOR UNLESS NOTED OTHERWISE (U.N.O.).
- B. GENERAL CONTRACTOR IS TO VERIFY EXISTING CONDITIONS AND PROPOSED DIMENSIONS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT AND OWNER OF ANY DISCREPANCIES.
- C. DO NOT SCALE THESE DRAWINGS.
- D. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES, TRADE STANDARDS AND MANUFACTURER'S SPECIFICATIONS.
- E. ALL CONTRACTORS MUST MAKE ON-SITE VISITATIONS TO PROJECT SITE TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF CONSTRUCTION.
- F. ALL DIMENSIONS ARE TO EXTERIOR FACE OF STUD OF NEW EXTERIOR WALLS AND CENTERLINE OF NEW INTERIOR WALLS AND TO FACE OF EXISTING WALLS U.N.O.
- G. PROVIDE FIRE RETARDANT BLOCKING FOR ALL WALL MOUNTED ACCESSORIES AND DEVICES.
- H. LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- I. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND PIPING, MECHANICAL AND ELECTRICAL WORK.
- J. DOOR JAMBS ARE 6" OFF NEAREST PERPENDICULAR WALL FINISH UNLESS NOTED OTHERWISE.
- K. PROVIDE 1'-6" MINIMUM CLEARANCE FOR HANDICAP ACCESS FROM EDGE OF ALL DOORS ON 'PULL' SIDE TO THE ADJACENT FINISHED WALL.
- L. ROOMS ARE DEFINED BY WALLS, FACES OF DOORS AND ROOM CHANGE INDICATORS.
- M. INTERIOR WALLS TO BE 6" MINIMUM ABOVE HIGHEST ADJACENT CEILING UNLESS NOTED OTHERWISE (U.N.O.).
- N. USE WATER RESISTANT GYPSUM WALLBOARD BEHIND ALL SINKS, WET AREAS AND BEHIND ALL TILE. USE CEMENTITIOUS BACKER BOARD TO 1'-0" A.F.F. AT EXTERIOR WALLS.
- O. "FLOOR LINE" REFERS TO TOP ON CONCRETE SLABS, FINISH FLOORING IS INSTALLED ABOVE THE FLOOR LINE. FOR DEPRESSED FLOORS AND CURBS, SEE STRUCTURAL DRAWINGS.
- P. AT SOUND INSULATED WALLS, FULL HEIGHT PARTITIONS SHALL BE SEALED, BOTH SIDES, WITH ACOUSTIC SEALANT; TOP, BOTTOM, INTERSECTION, DOOR FRAMES, GLAZED OPENING FRAMES, AND OTHER PENETRATIONS.
- Q. LINE OF EXISTING GRADES, AS SHOWN ON THE THE BUILDING ELEVATIONS AND SECTIONS, ARE APPROXIMATE.
- R. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT OR BY OTHERS.
- S. VERIFY SIZE AND LOCATION OF AND PROVIDE REQUIRED OPENINGS THROUGH FLOORS, WALLS, ACCESS FLOORS, FURRING, CURBS, ANCHORS AND INSERTS. PROVIDE ALL BASES AND BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT.
- T. FOLLOW MANUFACTURER'S BEST INSTALLATION METHODS FOR PROPER INSTALLATION OF ALL MATERIALS.

PERMITTING STAMP:

**Designed to Build**  
A Sustainable Approach

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DESIGNBUILD

**EL BURRITO MEXICAN RESTAURANT  
SHOPPES AT SUMMIT**  
1625 BUFFALO LAKE RD  
SANFORD, NORTH CAROLINA

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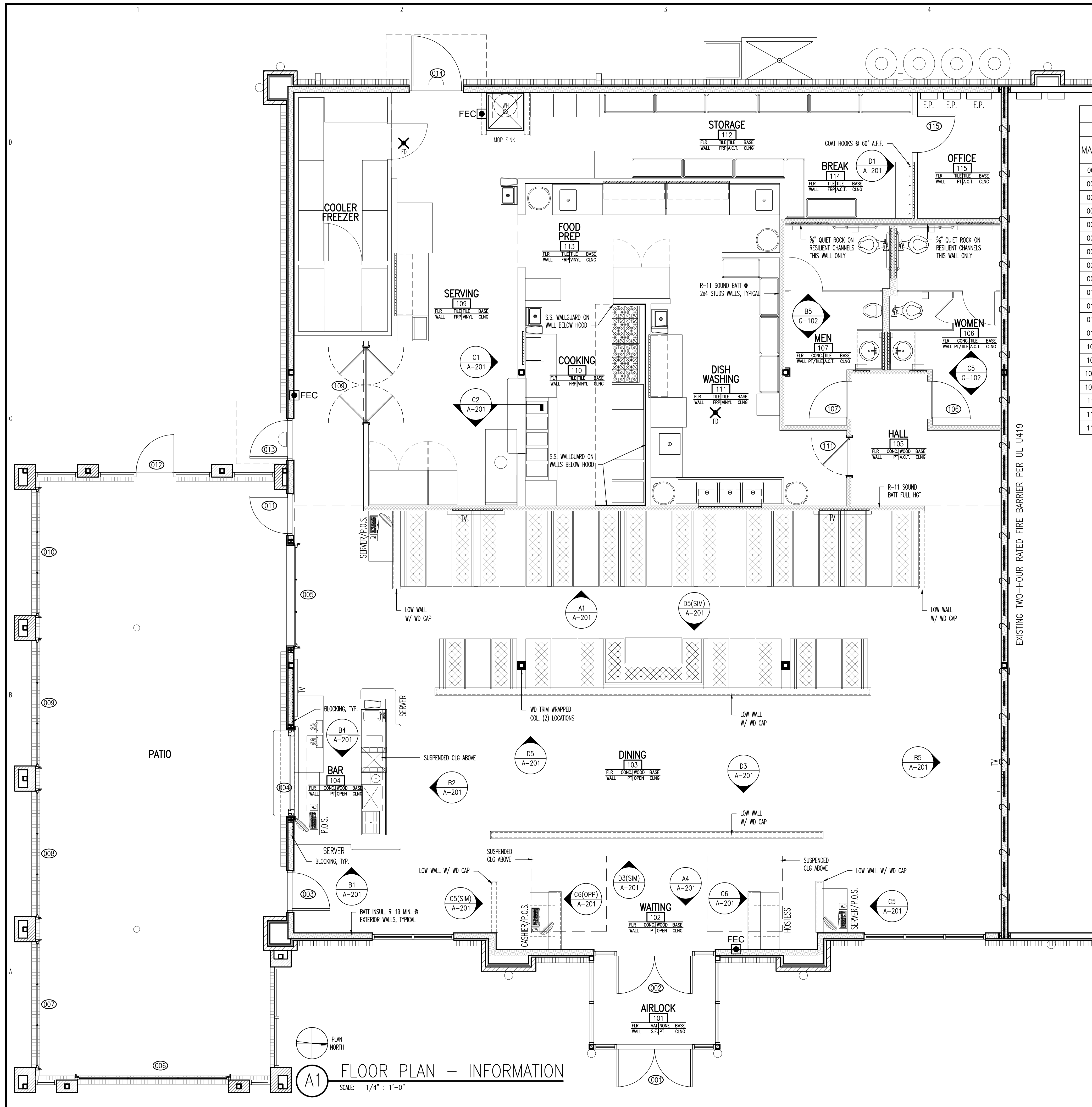
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SHEET TITLE:  
**DIMENSION  
FLOOR PLAN  
AND NOTES**

**A-101**  
SHEET 1 OF 5

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**A1 FLOOR PLAN - INFORMATION**  
SCALE: 1/4" = 1'-0"

### DOOR AND FRAME SCHEDULE

MARK	DOOR			FRAME			FIRE RATING LABEL	H.W. SET NO.	HAND	NOTES			
	SIZE	MATERIAL	EL	GLZ	MATL	EL					GLZ		
001										(SHELL BLDG.)			
002										(SHELL BLDG.)			
003										(SHELL BLDG.)			
004										(SHELL BLDG.)			
006										(SHELL BLDG.)			
007										(SHELL BLDG.)			
008										(SHELL BLDG.)			
009										(SHELL BLDG.)			
010										(SHELL BLDG.)			
012										(SHELL BLDG.)			
013										(SHELL BLDG.)			
014										(SHELL BLDG.)			
106	3'-0"	7'-0"	1-3/4"	WOOD SOLID BIRCH	D1	N/A	H.M.	F1	N/A	N/A	1	R	WOMEN'S GROUP TOILET
107	3'-0"	7'-0"	1-3/4"	WOOD SOLID BIRCH	D1	N/A	H.M.	F1	N/A	N/A	1	L	MEN'S GROUP TOILET
109a	3'-0"	7'-0"	1"	PLWD SOLID	D3	ACRYLIC	H.M.	F1	N/A	N/A	5	DA	PAIR; SERVING
109b	3'-0"	7'-0"	1"	PLWD SOLID	HPL	D3	ACRYLIC	H.M.	F1	N/A	5	DA	PAIR; SERVING
111	3'-0"	7'-0"	1"	PLWD SOLID	HPL	D3	ACRYLIC	H.M.	F1	N/A	4	RR	DISHWASHING
113	3'-0"	7'-0"	1-3/4"	WOOD SOLID BIRCH	D1	N/A	H.M.	F1	N/A	N/A	2	LR	STAFF TOILET
115	3'-0"	7'-0"	1-3/4"	WOOD SOLID BIRCH	D2	N/A	H.M.	F1	N/A	N/A	3	L	OFFICE

### HARDWARE SETS - SATIN CHROMIUM PLATED

**S E T 1 : (PASSAGE)**  
 LOCKSET: SCHLAGE A170-NEP-626  
 HINGES: MCKINNEY (3) TA-2714 4.5 X 4.5 S.S. BALL BEARING  
 DOOR/HINGE STOP: GLYNN-JOHNSON WALL: 60W-US32D OR FLOOR: FB13-US26D  
 CLOSER: NORTON 8301-BF-US26  
 SILENCERS: IVES (3) SR64, GRAY

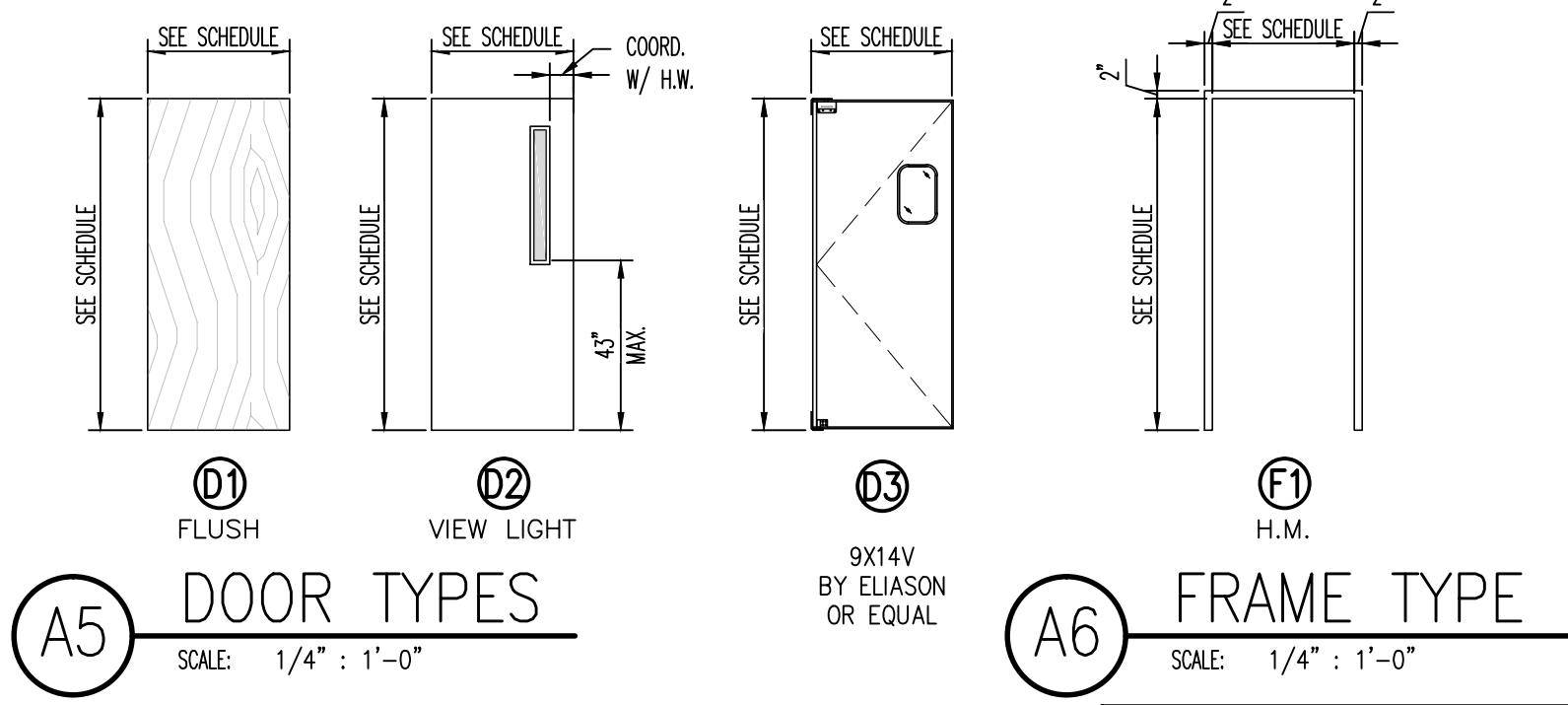
**S E T 2 : (PRIVACY)**  
 LOCKSET: SCHLAGE AL40S-NEP-626  
 HINGES: MCKINNEY (3) TA-2714 4.5 X 4.5 S.S. BALL BEARING  
 DOOR/HINGE STOP: GLYNN-JOHNSON WALL: 60W-US32D OR FLOOR: FB13-US26D  
 SILENCERS: IVES (3) SR64, GRAY

**S E T 3 : (OFFICE)**  
 LOCKSET: SCHLAGE AL50PD-NEP-626  
 HINGES: MCKINNEY (3) TA-2714 4.5 X 4.5 S.S. BALL BEARING  
 DOOR/HINGE STOP: GLYNN-JOHNSON WALL: 60W-US32D OR FLOOR: FB13-US26D  
 SILENCERS: IVES (3) SR64, GRAY

**S E T 4 : (SINGLE ACTING)**  
 PUSH PLATE: IVES 8200 4"x16", S.S.  
 PULL W/ PLATE: ELIASON 1" PULL; 8303 4"x16" PLATE, S.S.  
 HINGES: ELIASON PIVOT EASY SWING; ZINC COATED  
 IMPACT PLATE: ELIASON 18"x34" 0.050 GAUGE, S.S. ON PUSH SIDE

**S E T 5 : (DOUBLE ACTING)**  
 PUSH PLATE: IVES 8200 4"x16", S.S.  
 HINGES: ELIASON PIVOT EASY SWING; ZINC COATED  
 IMPACT PLATE: ELIASON 18"x34" 0.050 GAUGE, S.S. ON BOTH SIDE  
 GASKET: ELIASON FULL PERIMETER SEAL

- ### HARDWARE NOTES
- COORDINATE WITH OWNER'S FURNITURE PLAN FOR DOOR/HINGE STOPS.
  - ALL HARDWARE TO BE SATIN CHROME UNLESS NOTED OTHERWISE.
  - ALL LATCHING HARDWARE TO BE LOCATED 38"-40" A.F.F.
  - SCHLAGE - AL SERIES, NEPTUNE LEVER, FALCON - B SERIES, QUANTUM ARE ACCEPTABLE.
  - CARD READERS BY SECURITY CONTRACTOR.
  - MAGNETIC LATCHES BY SECURITY CONTRACTOR.
  - COORDINATE KEYING WITH CFVH.



**A5 DOOR TYPES**  
SCALE: 1/4" = 1'-0"

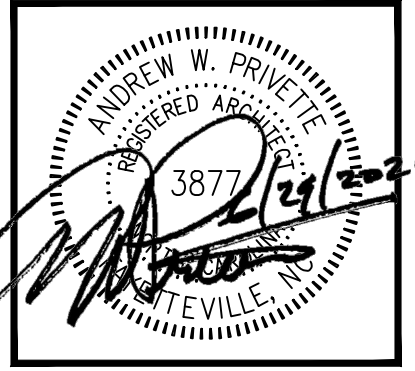
**A6 FRAME TYPE**  
SCALE: 1/4" = 1'-0"

PERMITTING STAMP:

INFORMATION FLOOR PLAN SCHEDULES



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**RAYWEST**  
DESIGNBUILD

EL BURRITO MEXICAN RESTAURANT  
SHOPPES AT SUMMIT  
1625 BUFFALO LAKE RD  
SANFORD, NORTH CAROLINA

NO.	DATE	DESCRIPTION	BY	CHECK

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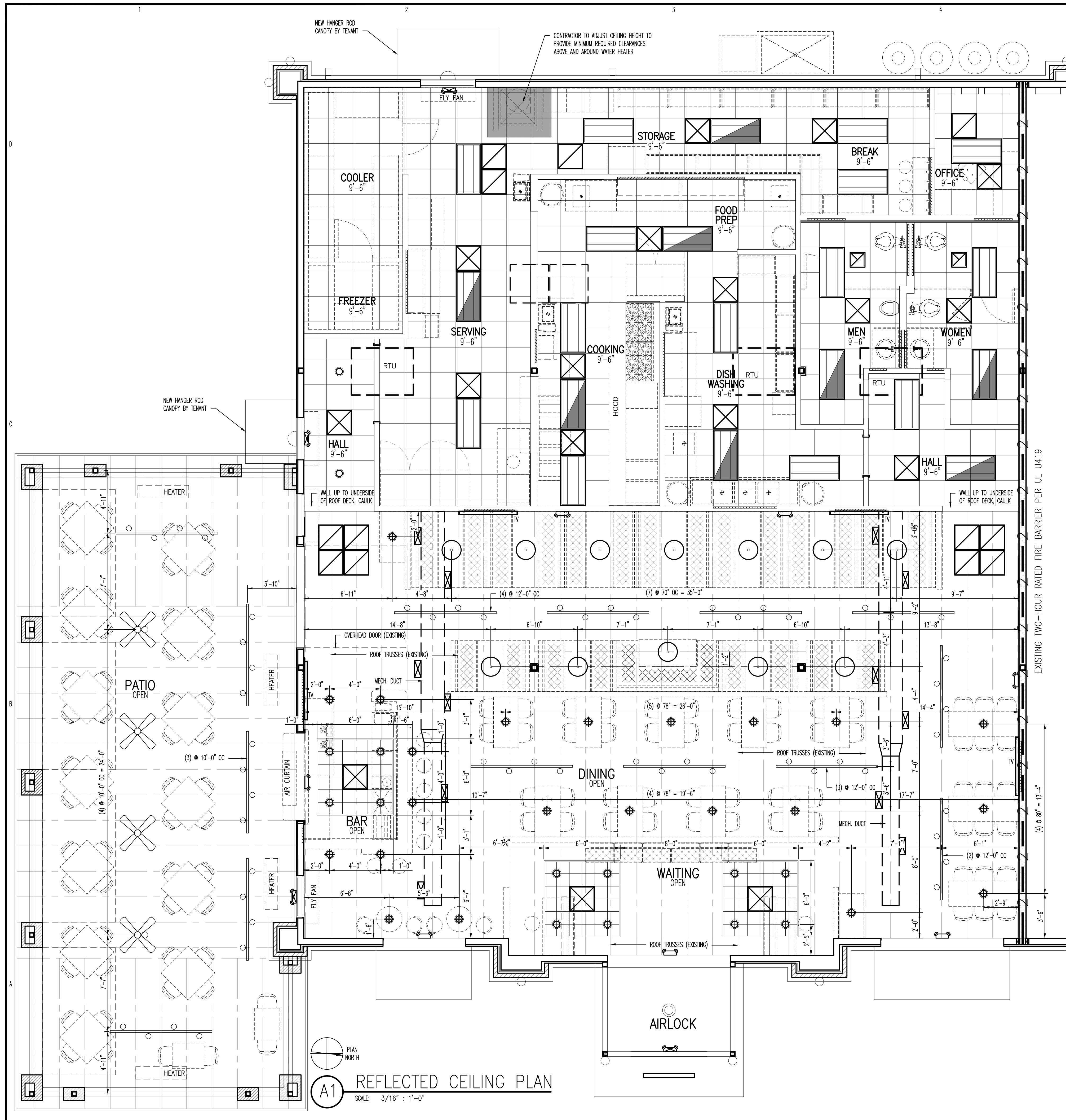
**A-102**  
SHEET 2 OF 5

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**A1 REFLECTED CEILING PLAN**  
SCALE: 3/16" = 1'-0"

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**REFLECTED CEILING PLAN NOTES:**

- A. ALL DIMENSIONS ARE FROM INTERIOR FACE OF WALLS TO  $\phi$  OF FIXTURE.
- B. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CATEGORIES OR DRAWINGS FOR ADDITIONAL NOTES.
- C. SEE ELECTRICAL DRAWING FOR CORRESPONDING REFLECTED CEILING.
- D. REFER TO STARTING POINT NOTED ON PLAN FOR ALIGNMENT OF TILE PATTERNS. ADVISE ARCHITECT PRIOR TO INSTALLATION IF LAYOUT OF TILE WILL VARY FROM PLANS.
- E. DO NOT CUT ANY LAY-IN ACOUSTICAL CEILING PANELS LESS THAN 6 INCHES UNLESS INSTRUCTED BY ARCHITECT. LAY-IN CEILING PANELS TO BE EQUALLY SPACED IN ALL AREAS.
- F. FLOOR ELEMENTS BELOW SUCH AS FURNITURE AND PARTIAL HEIGHT WALLS AND BASE CABINETS ARE SHOWN DASHED FOR REFERENCE.
- G. LIGHTS SHALL BE CENTERED ON OR OVER ARCHITECTURAL ELEMENTS, UNLESS NOTED OTHERWISE (U.O.). WHERE CENTERING CANNOT BE ACHIEVED DUE TO GRID ALIGNMENT, LIGHTS SHALL BE PLACED WITHIN 6 INCHES OF DESIRED CENTER POINT.
- H. ALL GYPSUM BOARD CEILINGS AND THE UNDERSIDE OF ALL SOFFITS AT BULKHEADS SHALL BE 'CEILING WHITE' U.O.N.
- I. ALL EXPOSED PIPES, DUCTWORK AND GRILLES SHALL BE PAINTED TO MATCH THE COLOR OF THE ADJACENT WALL OR CEILING SURFACE UNLESS NOTED OTHERWISE ON DRAWINGS.
- J. FOLLOW MANUFACTURER'S BEST INSTALLATION METHODS FOR PROPER INSTALLATION OF ALL MATERIALS.

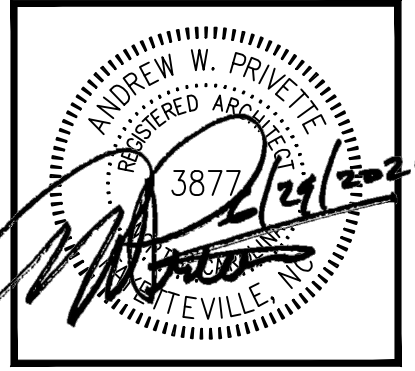
**REFLECTED CEILING PLAN LEGEND:**

- 2'x4' LAY-IN LED
- 2'x4' LAY-IN LED W/ EMERGENCY BATTERY BACK-UP
- 2'x2' LAY-IN LED
- SUSPENDED TRACK LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- PENDANT CAN LIGHT FIXTURE
- SUSPENDED CHANDELIER PENDANT LIGHT FIXTURE
- WALL SCONCE LIGHT FIXTURE
- EXIT SIGN - SHADE AREA INDICATES FACE OF SIGN
- EMERGENCY LIGHT
- COMBINATION EXIT / EMERGENCY LIGHT
- EXHAUST FAN
- MECHANICAL SUPPLY GRILLE
- MECHANICAL RETURN GRILLE

PERMITTING STAMP:



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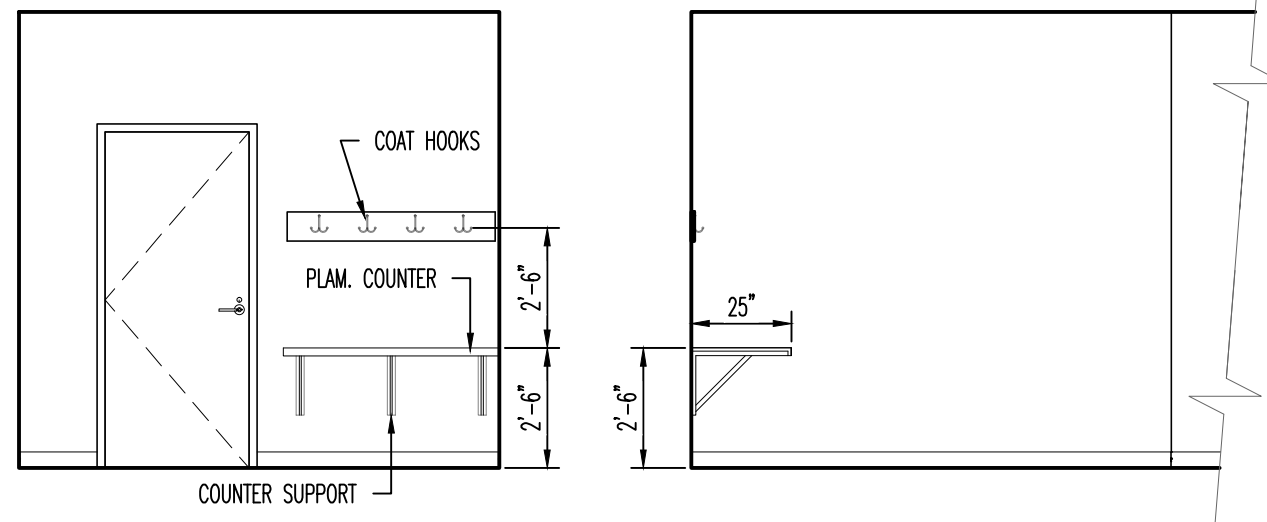
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**REFLECTED CEILING  
FLOOR PLAN  
AND NOTES**

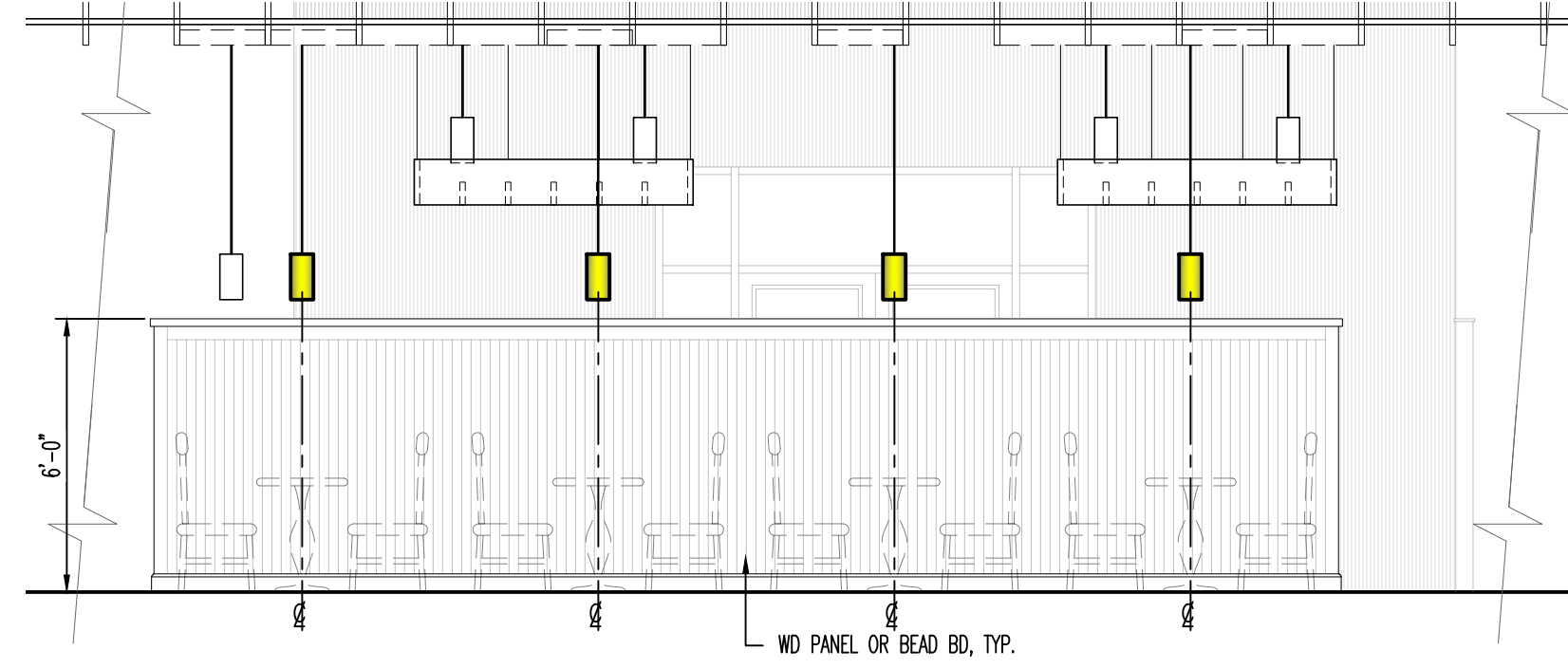
**A-104**  
SHEET 4 OF 5

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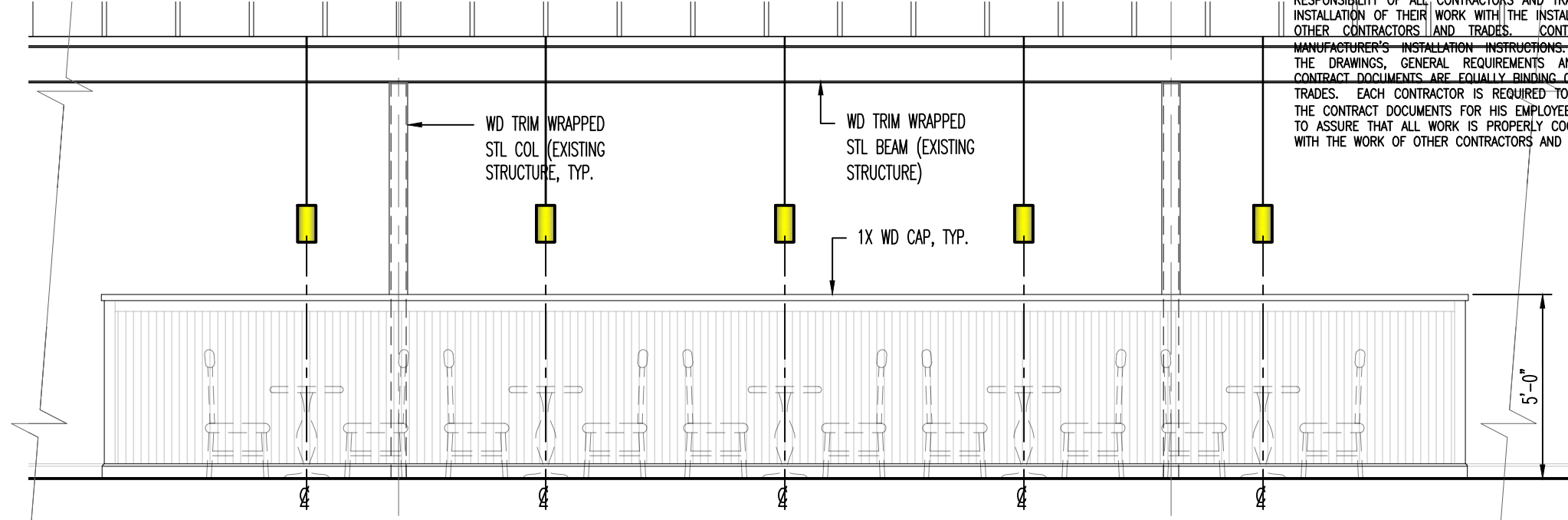




**D1** BREAK RM @ DRY STOR.  
SCALE: 1/4" : 1'-0"

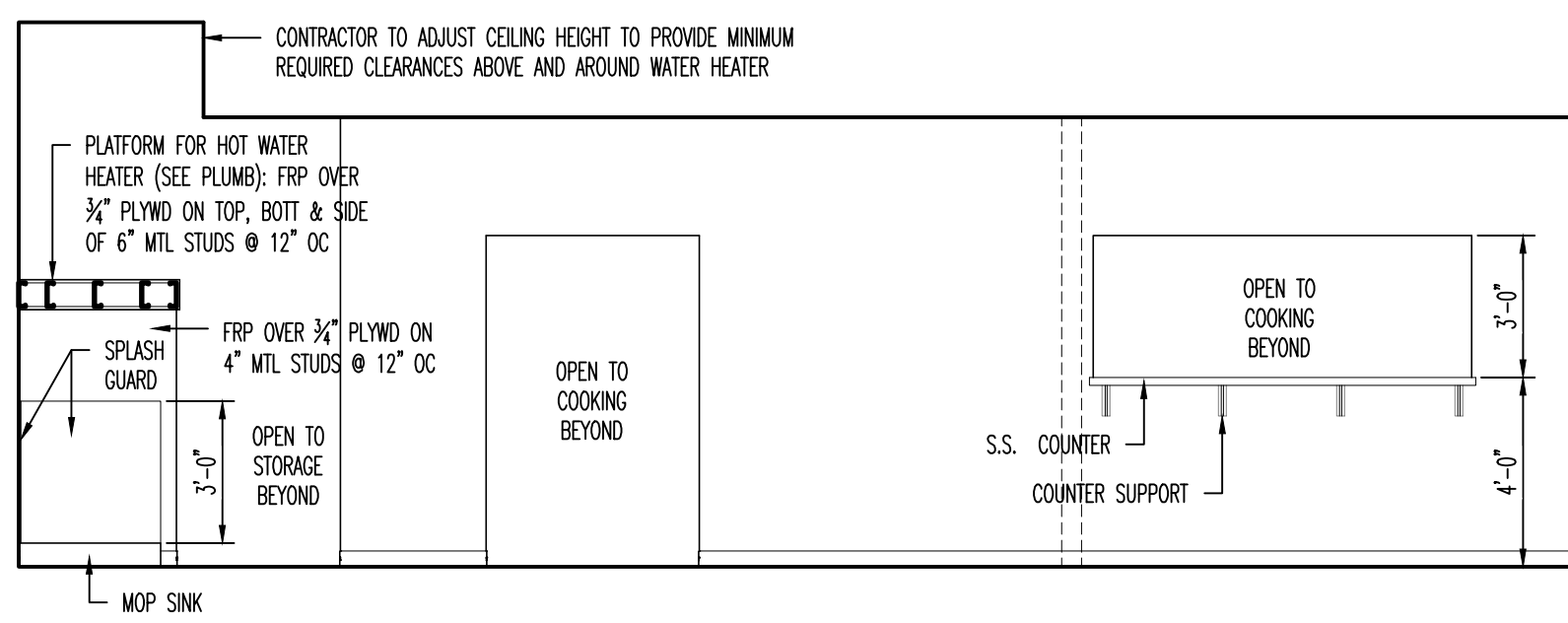


**D3** DINING @ LOW WALL  
SCALE: 1/4" : 1'-0"

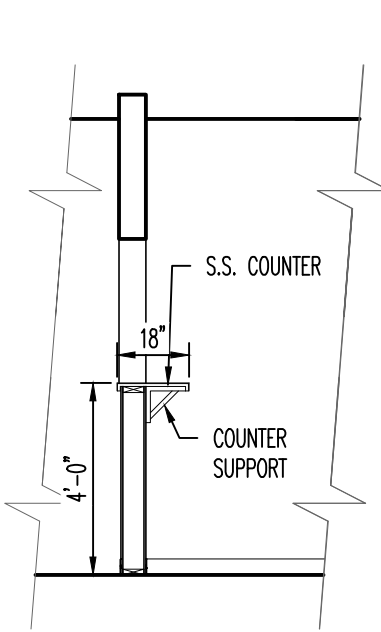


**D5** DINING @ LOW WALL  
SCALE: 1/4" : 1'-0"

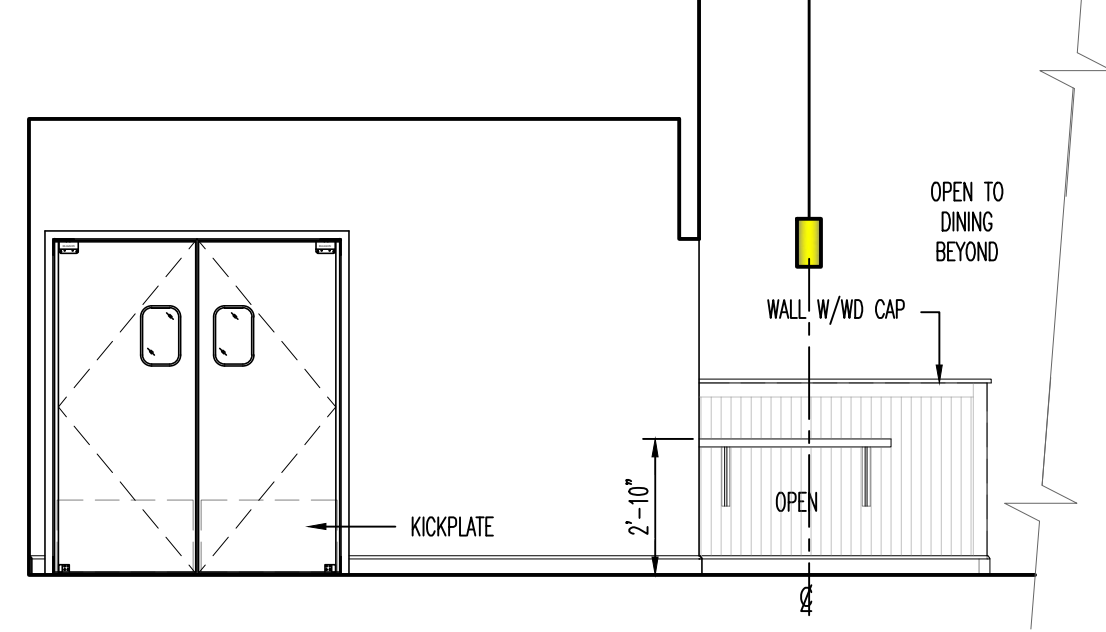
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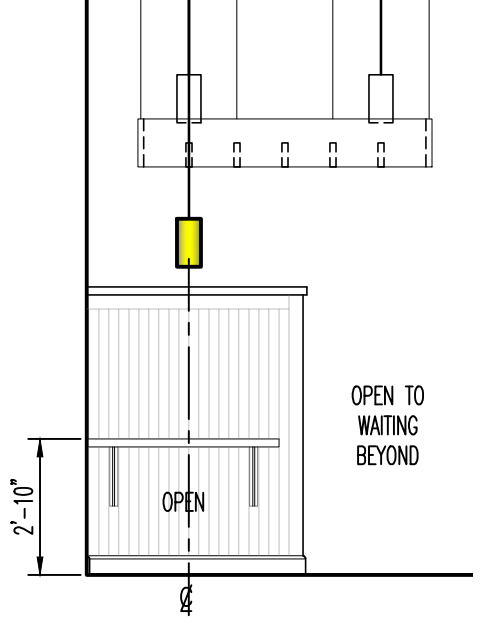
**C1** SERVING  
SCALE: 1/4" : 1'-0"



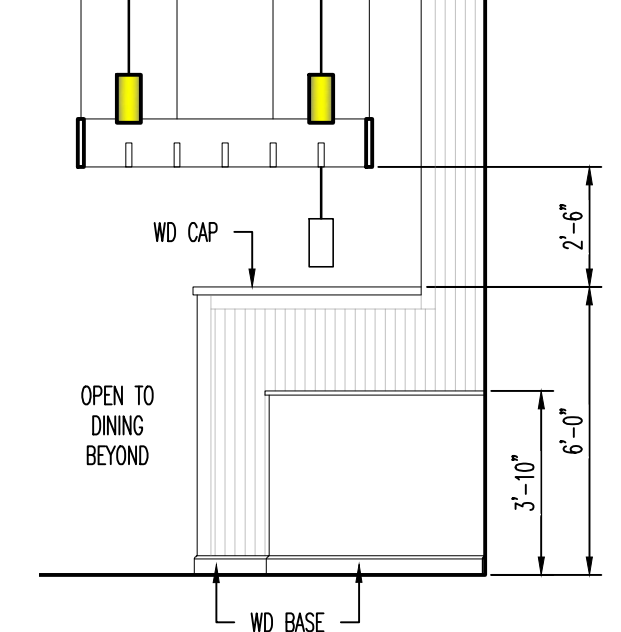
**C1** PASS-THRU  
SCALE: 1/4" : 1'-0"



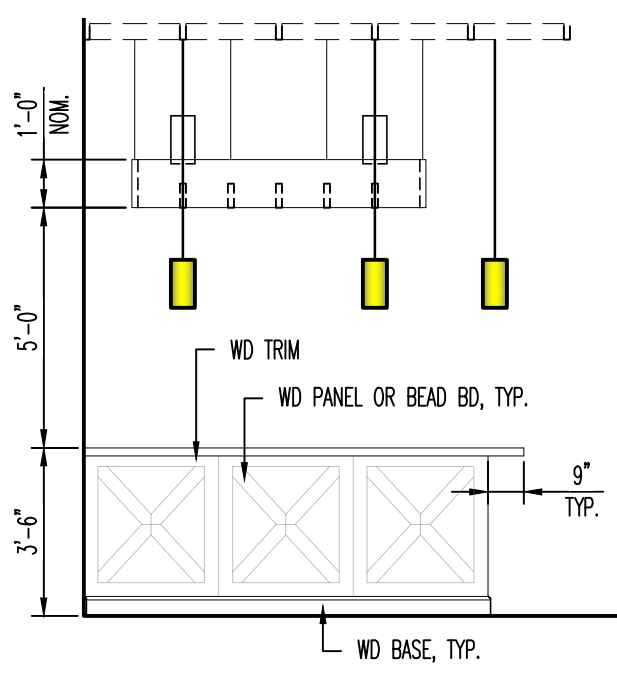
**C3** SERVER  
SCALE: 1/4" : 1'-0"



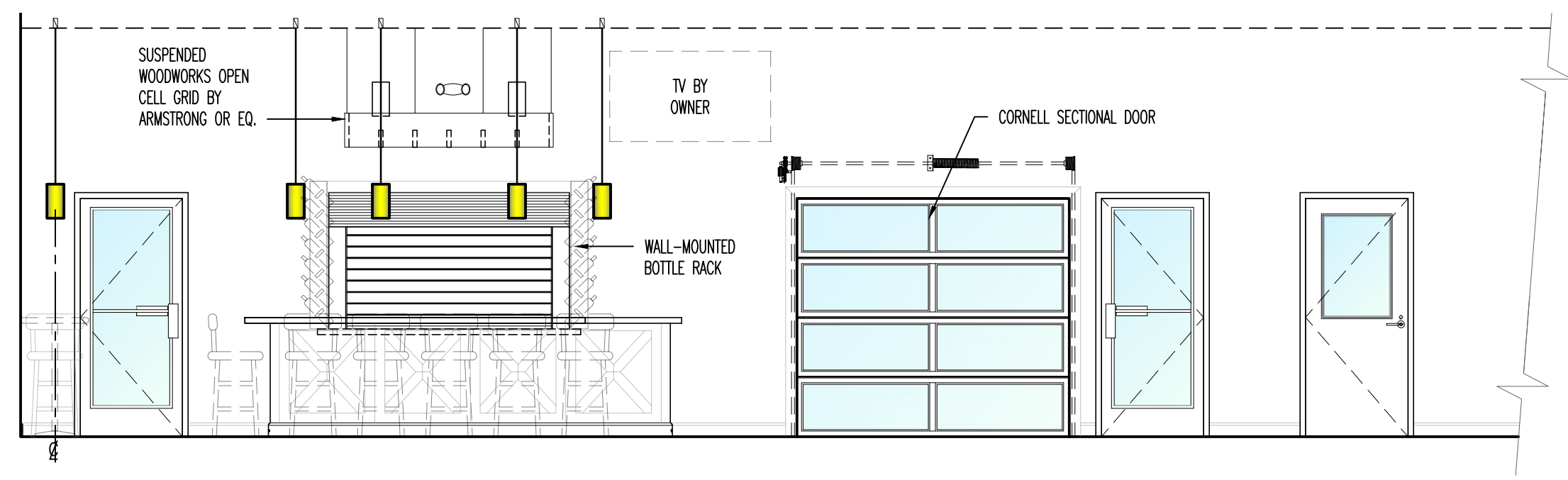
**C5** SERVER @ WAITING  
SCALE: 1/4" : 1'-0"



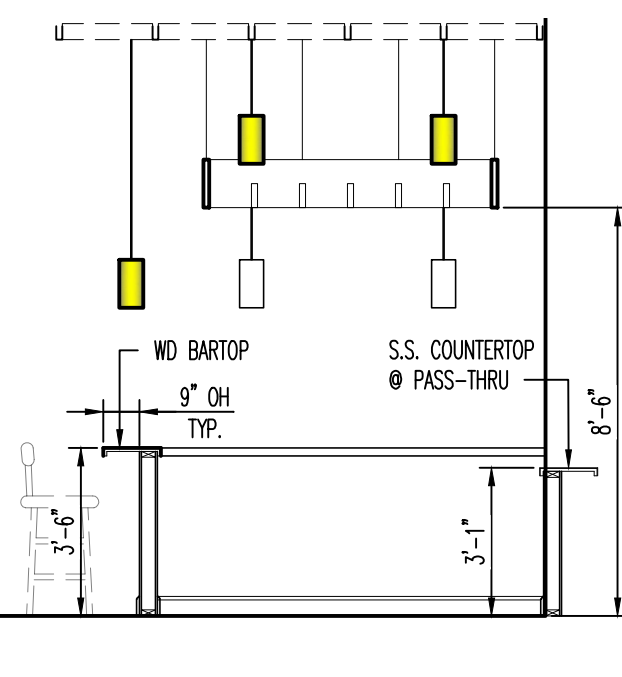
**C6** LOW WALL @ WAITING  
SCALE: 1/4" : 1'-0"



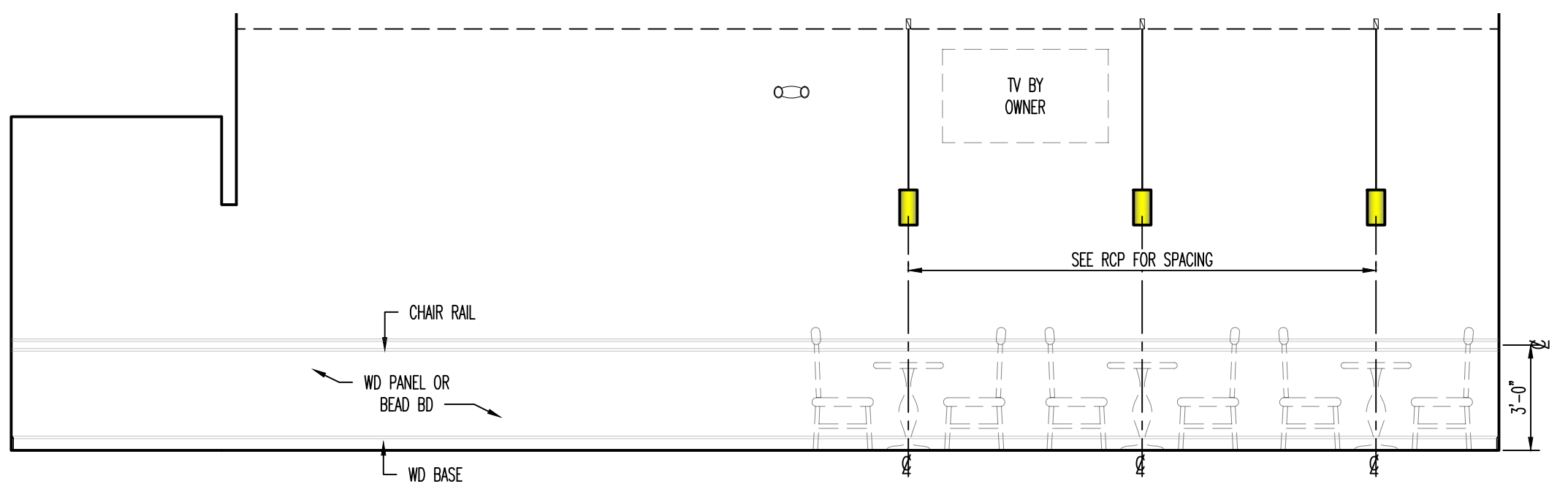
**B1** BAR (LEFT)  
SCALE: 1/4" : 1'-0"



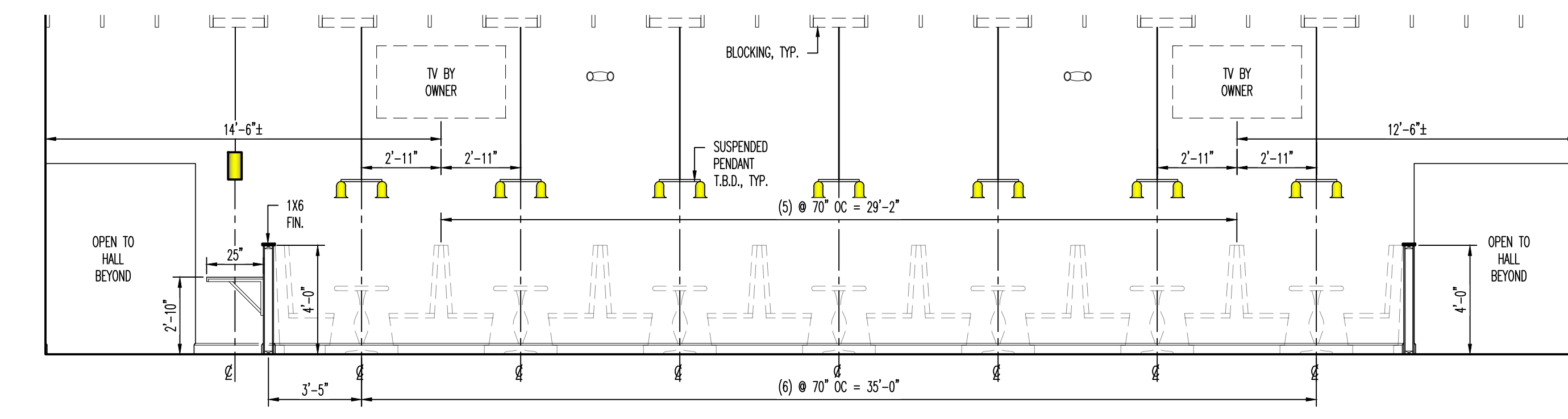
**B2** DINING @ BAR  
SCALE: 1/4" : 1'-0"



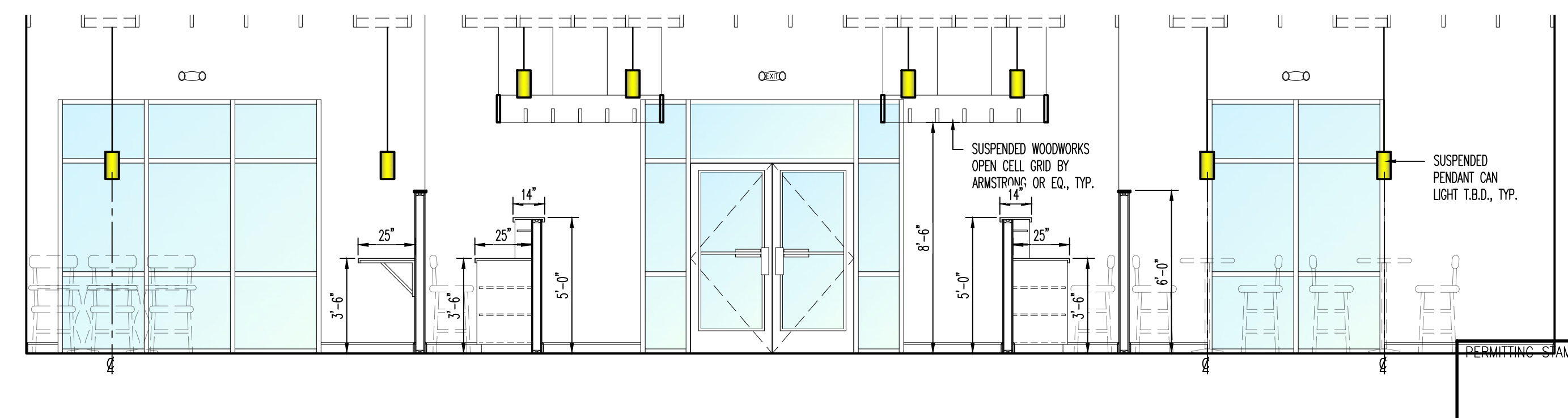
**B4** BAR SECTION  
SCALE: 1/4" : 1'-0"



**B5** DINING @ HALL  
SCALE: 1/4" : 1'-0"



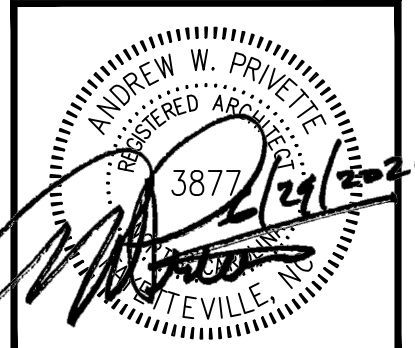
**A1** DINING  
SCALE: 1/4" : 1'-0"



**A4** DINING @ WAITING  
SCALE: 1/4" : 1'-0"



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NO.	DATE	DESCRIPTION	BY	CHECK

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**A-201**  
SHEET 5 OF 5

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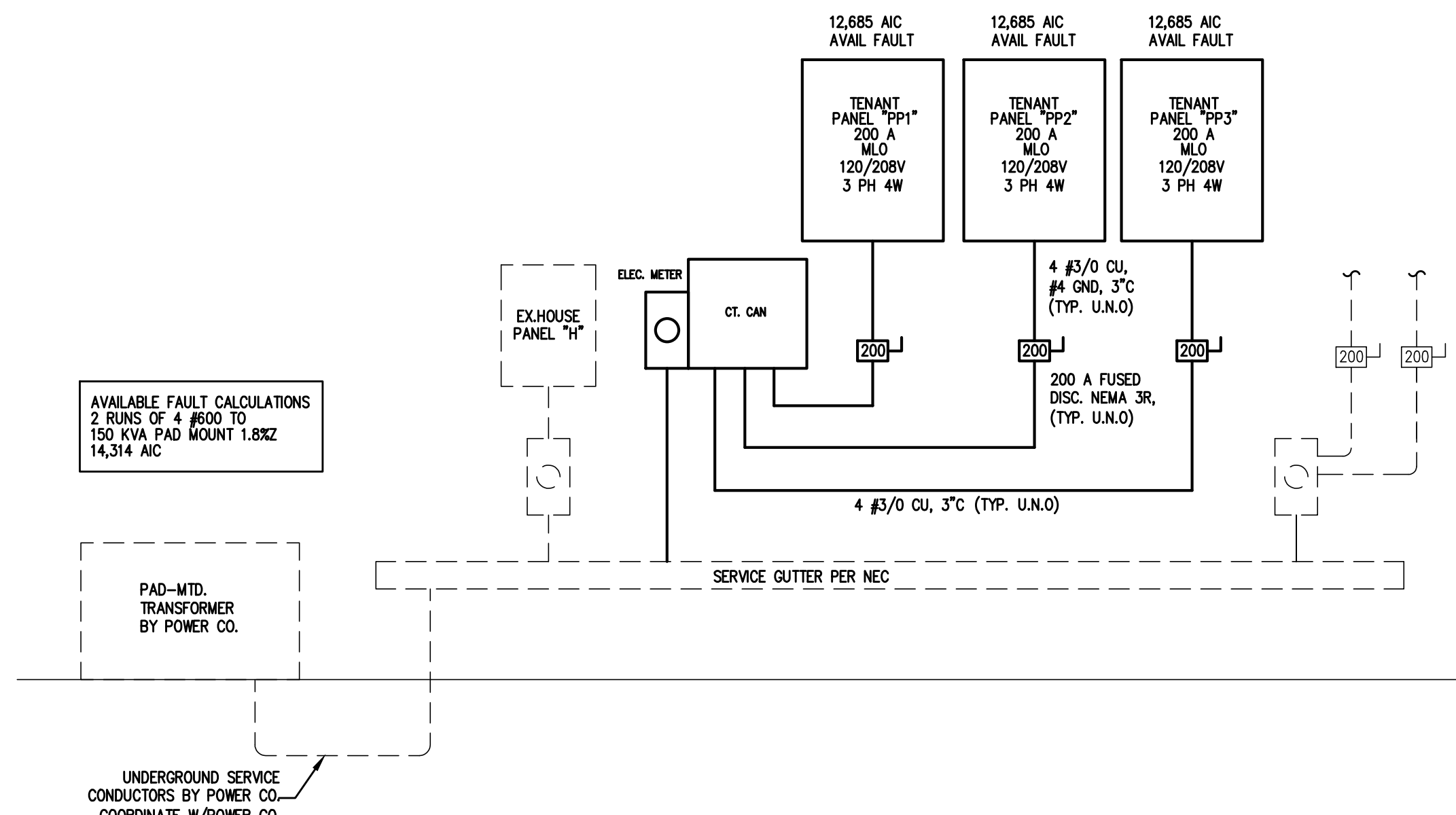
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 ELECTRICAL PANELS,  
 NOTES AND DETAILS

E-1  
 SHEET OF



**GROUNDING ELECTRODE DETAILS**

GROUNDING ELECTRODE CONDUCTORS SHALL BE #4 BARE COPPER. OTHER MATERIAL AND INSTALLATION PER NEC

- ① CONNECT TO METALIC WATER PIPE AS REQ'D.
- ② #4 COPPER GROUND PLACED TO BLDG STEEL
- ③ 3/4"x10' LONG COPPER CLAD GROUNDING ROD W/ #6 COPPER GROUND.

A=#4 CU PP1,2,3

**1 ELECTRIC RISER**  
 E1 N.T.S.

PP1				PP2				PP3															
ROOM	MOUNTING	FED FROM	UTILITY	VOLTS	208Y/120V 3P 4W	AIC	22,000	ROOM	MOUNTING	FED FROM	UTILITY	VOLTS	208Y/120V 3P 4W	AIC	22,000	ROOM	MOUNTING	FED FROM	UTILITY	VOLTS	208Y/120V 3P 4W	AIC	22,000
NOTE				NOTE				NOTE															
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	15/1	0.384	BOTTLE COOLER	a 2	20/1	0.32	LIGHTING	a 2	20/1	0.839	LIGHTING	a 2	50/3	20.4	RTU-2	a 2	20/1	0	SPACE	a 2	20/1	0	SPACE
3	20/1	0.342	BEER DISPENSER	b 4	20/1	0.284	LIGHTING	b 4	20/1	0.695	EF3, EF4, LIGHTING	b 4	20/2	1.51	W.I.C. CONDENSER	b 4	20/1	0	SPACE	b 4	20/1	0	SPACE
5	20/1	0.24	GLASS CHILLER	c 6	20/1	0.34	LIGHTING	c 6	20/3	0	SPACE	c 6	20/1	0.54	** RECEPTACLE	c 6	20/1	0	SPACE	c 6	20/1	0	SPACE
7	20/1	0.72	RECEPTACLE	a 8	20/1	0.171	LIGHTING	a 8	20/1	0	SPACE	a 8	20/1	0	SPACE	a 8	25/2	3.49	CU-1	a 8	20/1	0	SPACE
9	20/1	0.72	RECEPTACLE	b 10	20/1	0.504	LIGHTING	b 10	20/1	0.1	ANSUL	b 10	20/1	0	SPACE	b 10	25/2	3.49	CU-2	b 10	20/1	0	SPACE
11	20/1	0.72	RECEPTACLE	c 12	20/1	0.518	LIGHTING	c 12	30/1	2.88	EF-1	c 12	25/2	3.49	CU-2	c 12	20/1	0	SPACE	c 12	20/1	0	SPACE
13	20/1	0.9	RECEPTACLE	a 14	15/2	2.48	MSOU-1	a 14	20/1	0.1	WH-1	a 14	20/1	0	SPACE	a 14	20/3	2.83	** MAU-1	a 14	20/1	0	SPACE
15	20/1	0.54	RECEPTACLE	b 16	20/1	0	SPACE	b 16	20/1	0	SPACE	b 16	20/1	0	SPACE	b 16	20/1	0	SPACE	b 16	20/1	0	SPACE
17	20/1	0	SPACE	c 18	20/1	0.54	RECEPTACLE	c 18	20/1	0	SPACE	c 18	20/1	0	SPACE	c 18	20/1	0	SPACE	c 18	20/1	0	SPACE
19	20/1	0.4	HTR1, HTR2, HTR3, HTR4	a 20	20/1	0.36	RECEPTACLE	a 20	20/1	0	SPACE	a 20	20/1	0	SPACE	a 20	20/1	0	SPACE	a 20	20/1	0	SPACE
21	20/1	0.36	RECEPTACLE	b 22	20/1	0.72	RECEPTACLE	b 22	20/1	0	SPACE	b 22	20/1	0	SPACE	b 22	20/1	0	SPACE	b 22	20/1	0	SPACE
23	20/1	0.36	RECEPTACLE	c 24	20/1	0.18	RECEPTACLE	c 24	20/1	0	SPACE	c 24	20/1	0	SPACE	c 24	20/1	0	SPACE	c 24	20/1	0	SPACE
25	50/3	20.4	RTU-3	a 26	20/1	0.72	RECEPTACLE	a 26	20/1	0	SPACE	a 26	20/1	0	SPACE	a 26	20/1	0	SPACE	a 26	20/1	0	SPACE
27	20/1	0	SPACE	b 28	60/3	16.4	DISHWASHER	b 28	20/1	0	SPACE	b 28	20/1	0	SPACE	b 28	20/1	0	SPACE	b 28	20/1	0	SPACE
29	20/1	0	SPACE	c 30	20/1	0	SPACE	c 30	20/1	0	SPACE	c 30	20/1	0	SPACE	c 30	20/1	0	SPACE	c 30	20/1	0	SPACE
31	20/1	0.36	RECEPTACLE	a 32	20/1	0	SPACE	a 32	20/1	0	SPACE	a 32	20/1	0	SPACE	a 32	20/1	0	SPACE	a 32	20/1	0	SPACE
33	20/1	0	SPACE	b 34	20/1	0	SPACE	b 34	20/1	0	SPACE	b 34	20/1	0	SPACE	b 34	20/1	0	SPACE	b 34	20/1	0	SPACE
35	20/1	0	SPACE	c 36	20/1	0	SPACE	c 36	20/1	0	SPACE	c 36	20/1	0	SPACE	c 36	20/1	0	SPACE	c 36	20/1	0	SPACE
37	20/1	0	SPACE	a 38	20/1	0	SPACE	a 38	20/1	0	SPACE	a 38	20/1	0	SPACE	a 38	20/1	0	SPACE	a 38	20/1	0	SPACE
39	20/1	0	SPACE	b 40	20/1	0	SPACE	b 40	20/1	0	SPACE	b 40	20/1	0	SPACE	b 40	20/1	0	SPACE	b 40	20/1	0	SPACE
41	20/1	0	SPACE	c 42	20/1	0	SPACE	c 42	20/1	0	SPACE	c 42	20/1	0	SPACE	c 42	20/1	0	SPACE	c 42	20/1	0	SPACE

	CONN KVA	CALC KVA		CONN KVA	CALC KVA		CONN KVA	CALC KVA		CONN KVA	CALC KVA
LIGHTING	2.14	2.67	(125%)	RECEPTACLES	7.2	7.2	(50%>10)	LIGHTING	1.33	1.67	(125%)
LARGEST MOTOR	20.4	5.09	(25%)	NONCONTINUOUS	1.37	1.37	(100%)	LARGEST MOTOR	20.4	5.09	(25%)
MOTORS	16.4	16.4	(100%)	HEATING	22.8	22.8	(100%)	MOTORS	3.08	3.08	(100%)
				COOLING	22.8	0	(0%)				
				TOTAL LOAD		55.5					
				BALANCED 3-PHASE LOAD		154 A					
				PHASE A		107%					
				PHASE B		102%					
				PHASE C		91%					

(\*\*) PROVIDE SHUNT TRIP BREAKER

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Jun 29, 2020



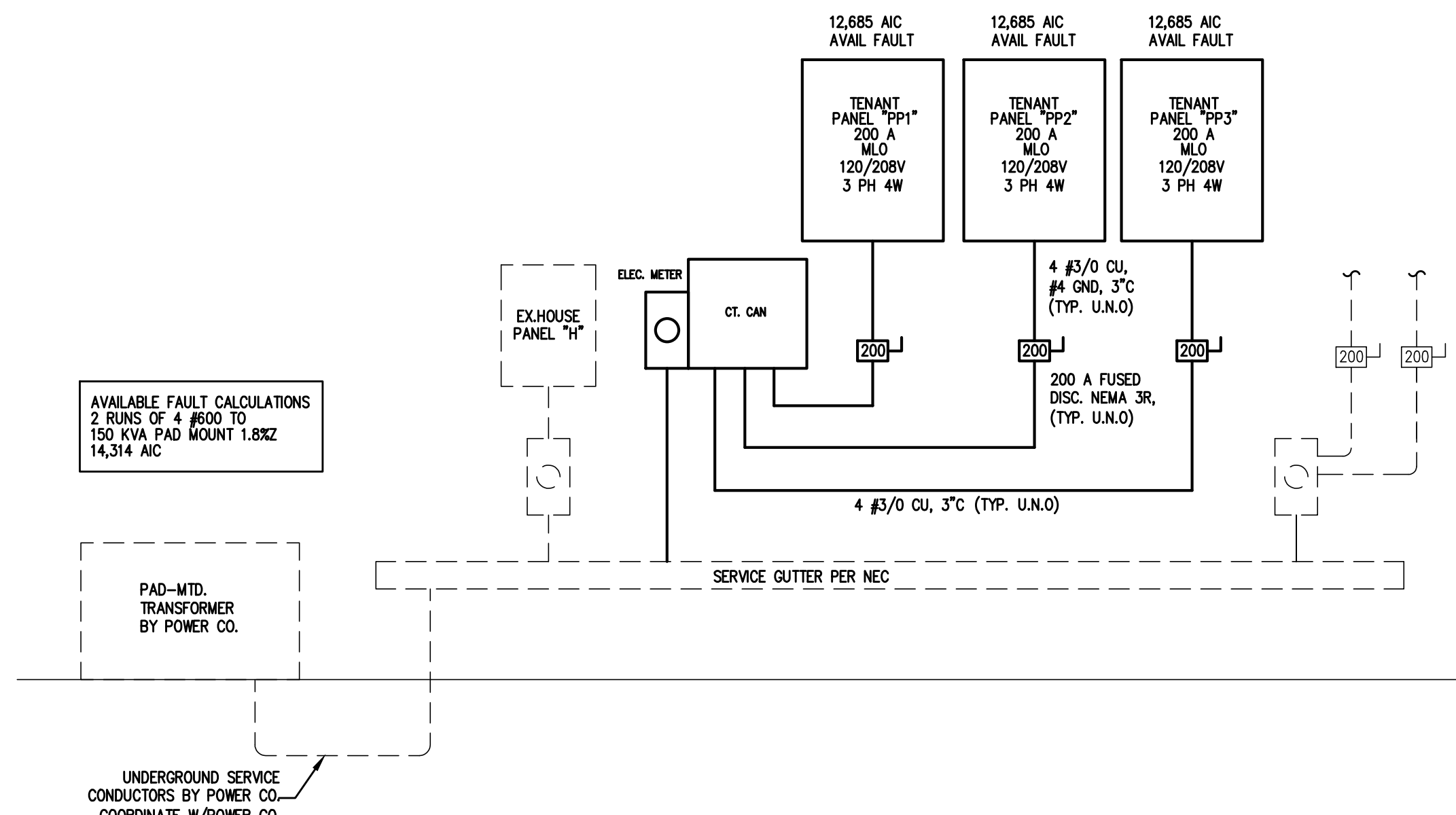
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E-1  
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**GROUNDING ELECTRODE DETAILS**

GROUNDING ELECTRODE CONDUCTORS SHALL BE #4 BARE COPPER. OTHER MATERIAL AND INSTALLATION PER NEC

- ① CONNECT TO METALIC WATER PIPE AS REQ'D.
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- ③ 3/4"x10' LONG COPPER CLAD GROUNDING ROD W/ #6 COPPER GROUND.

A=#4 CU PP1,2,3

**1 ELECTRIC RISER**  
N.T.S.

PP1				PP2				PP3			
ROOM	MOUNTING	FED FROM	NOTE	ROOM	MOUNTING	FED FROM	NOTE	ROOM	MOUNTING	FED FROM	NOTE
1	15/1	0.384	BOTTLE COOLER	a 2	20/1	0.32	LIGHTING	a 2	20/1	0.839	LIGHTING
3	20/1	0.342	BEER DISPENSER	b 4	20/1	0.284	LIGHTING	b 4	20/1	0.695	EF3, EF4, LIGHTING
5	20/1	0.24	GLASS CHILLER	c 6	20/1	0.34	LIGHTING	c 6	20/1	0.54	** RECEPTACLE
7	20/1	0.72	RECEPTACLE	a 8	20/1	0.171	LIGHTING	a 8	20/1	0	SPACE
9	20/1	0.72	RECEPTACLE	b 10	20/1	0.504	LIGHTING	b 10	20/1	0.1	ANSUL
11	20/1	0.72	RECEPTACLE	c 12	20/1	0.518	LIGHTING	c 12	30/1	2.88	EF-1
13	20/1	0.9	RECEPTACLE	a 14	15/2	2.48	MSOU-1	a 14	20/1	0.1	WH-1
15	20/1	0.54	RECEPTACLE	b 16	20/1	0	SPACE	b 16	20/1	0	SPACE
17	20/1	0	SPACE	c 18	20/1	0.54	RECEPTACLE	c 18	20/1	0	SPACE
19	20/1	0.4	HTR1, HTR2, HTR3, HTR4	a 20	20/1	0.36	RECEPTACLE	a 20	20/1	0	SPACE
21	20/1	0.36	RECEPTACLE	b 22	20/1	0.72	RECEPTACLE	b 22	20/1	0	SPACE
23	20/1	0.36	RECEPTACLE	c 24	20/1	0.18	RECEPTACLE	c 24	20/1	0	SPACE
25	50/3	20.4	RTU-3	a 26	20/1	0.72	RECEPTACLE	a 26	20/1	0	SPACE
27	20/1	0	SPACE	b 28	60/3	16.4	DISHWASHER	b 28	20/1	0	SPACE
29	20/1	0	SPACE	c 30	20/1	0	SPACE	c 30	20/1	0	SPACE
31	20/1	0.36	RECEPTACLE	a 32	20/1	0	SPACE	a 32	20/1	0	SPACE
33	20/1	0	SPACE	b 34	20/1	0	SPACE	b 34	20/1	0	SPACE
35	20/1	0	SPACE	c 36	20/1	0	SPACE	c 36	20/1	0	SPACE
37	20/1	0	SPACE	a 38	20/1	0	SPACE	a 38	20/1	0	SPACE
39	20/1	0	SPACE	b 40	20/1	0	SPACE	b 40	20/1	0	SPACE
41	20/1	0	SPACE	c 42	20/1	0	SPACE	c 42	20/1	0	SPACE

	CONN KVA	CALC KVA		CONN KVA	CALC KVA
LIGHTING	2.14	2.67	(125%)	RECEPTACLES	7.2
LARGEST MOTOR	20.4	5.09	(25%)	NONCONTINUOUS	1.37
MOTORS	16.4	16.4	(100%)	HEATING	22.8
				COOLING	22.8
				TOTAL LOAD	55.5
				BALANCED 3-PHASE LOAD	154 A
				PHASE A	107%
				PHASE B	102%
				PHASE C	91%

	CONN KVA	CALC KVA		CONN KVA	CALC KVA
LIGHTING	1.33	1.67	(125%)	RECEPTACLES	0.54
LARGEST MOTOR	20.4	5.09	(25%)	NONCONTINUOUS	8.92
MOTORS	3.08	3.08	(100%)	HEATING	20.4
				COOLING	20.4
				TOTAL LOAD	39.7
				BALANCED 3-PHASE LOAD	110 A
				PHASE A	99.2%
				PHASE B	91.4%
				PHASE C	109%

(\*\*) PROVIDE SHUNT TRIP BREAKER

	CONN KVA	CALC KVA		CONN KVA	CALC KVA
LARGEST MOTOR	20.4	5.09	(25%)	RECEPTACLES	0.72
MOTORS	2.35	2.35	(100%)	NONCONTINUOUS	5.99
				HEATING	20.4
				COOLING	27.4
				TOTAL LOAD	41.5
				BALANCED 3-PHASE LOAD	115 A
				PHASE A	115%
				PHASE B	94.1%
				PHASE C	91.1%

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Jul 01, 2020



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SHEET TITLE:  
LIGHTING PLAN AND  
SCHEDULES

E-3  
SHEET OF

**LUMINAIRE SCHEDULE**

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS	LUMENS / LAMP
B		(1) LED	2' X 4' LED RECESSED TROFFER	RECESSED	COLUMBIA LJT2440HLGFS12EU	45	120V 1P 2W	5650
BE		(1) LED	2' X 4' LED RECESSED TROFFER WITH EMERGENCY BATTERY	RECESSED	COLUMBIA LJT2440HLGFS12EUULL14	45	120V 1P 2W	5650
C		(1) LED	2' X 4' LED RECESSED TROFFER	RECESSED	COLUMBIA LJT2440XLGFS12EU	73	120V 1P 2W	8775
CE		(1) LED	2' X 4' LED RECESSED TROFFER WITH EMERGENCY BATTERY BACK UP	RECESSED	COLUMBIA LJT2440XLGFS12EUULL14	73	120V 1P 2W	8775
EMER		(2) 1.5W LED	EMER. LIGHT W/1.5 HR NI-CAD BATTERY	WALL/CEILING	LITHONIA ELM2-LED	3	120V 1P 2W	0
EMER/EXIT		(2) 1.5W LED	COMBINATION EXIT/EMERGENCY UNIT WITH 90 MINUTE BATTERY AND MATCHING LED OUTDOOR REMOTE HEADS	WALL/CEILING	HUBBELL CCRR CORD	4	120V 1P 2W	0
EXIT		(1) 2W LED	LED EXIT LIGHT WITH 90 MINUTE BATTERY	WALL/CEILING	HUBBELL CER	2	120V 1P 2W	0
F		(1)	CEILING FAN	CEILING	PER OWNER	80	120V 1P 2W	0
G		(1) LED	PENDANT FIXTURE	PENDANT	PRESCOLITE LD6LED3PW40K8	14	120V 1P 2W	700
H		(1) LED	6" LED DOWNLIGHT	RECESSED	PRESCOLITE D6LED3-6D9LED435K8FL35WHWT	14	120V 1P 2W	700
J		(1)	FLUSH MOUNT FIXTURE	CEILING	EATON FM19WR40R	30.5	120V 1P 2W	2450
M		(1) LED	PENDANT/CHANDLIER FIXTURE	PENDANT	EATON 1800RLM80L401MUNVSTD	42	120V 1P 2W	4611
T1		(4)	8'-0" TRACK SECTION W/ 4 TRACK HEADS	CEILING	PRESCOLITE AKT8 W/ AKTMNLED9L40K8 TRACK HEAD	56	120V 1P 2W	900

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

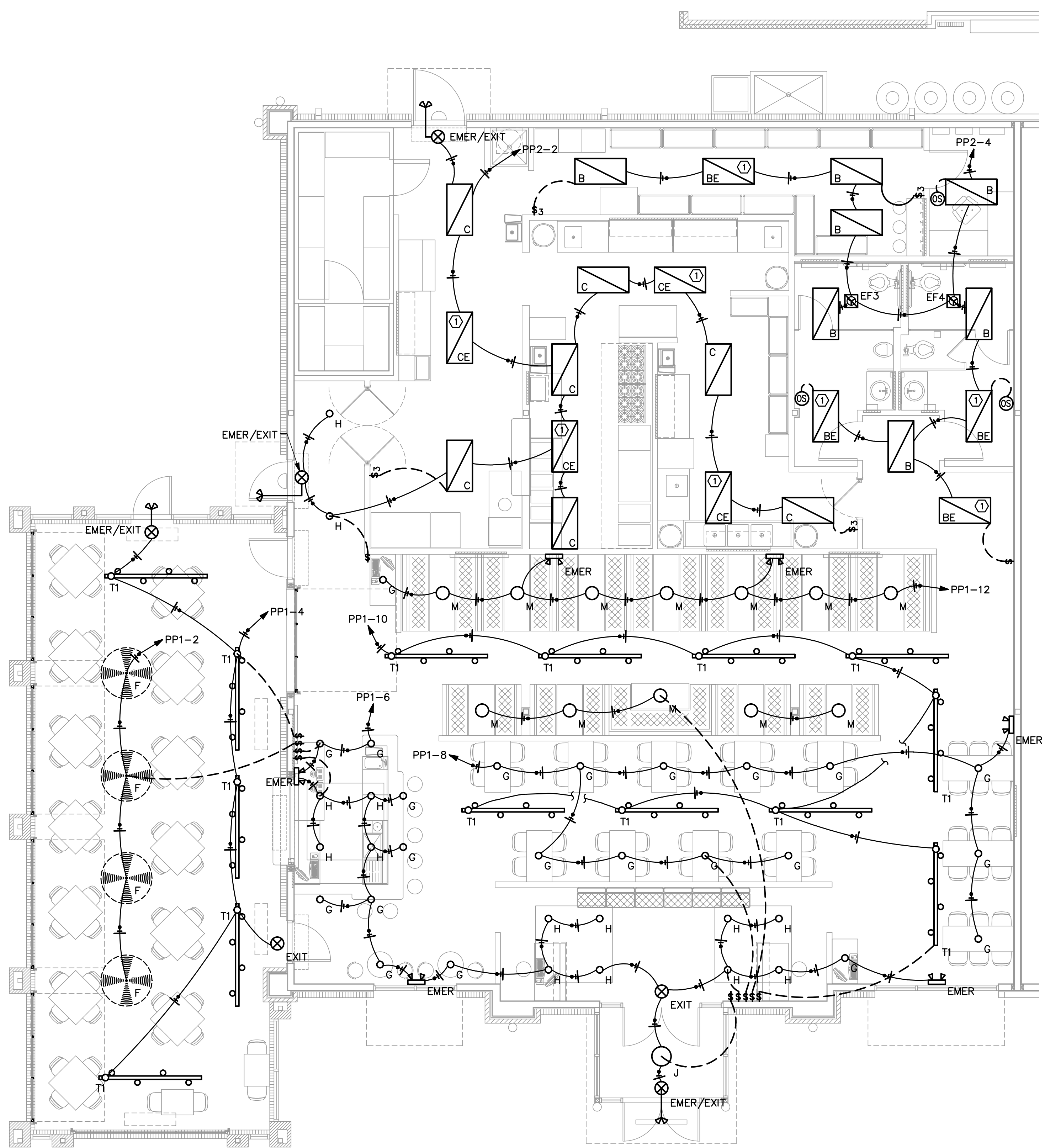
ELECTRICAL SYSTEM AND EQUIPMENT

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

Lighting schedule (each fixture type)  
lamp type required in fixture  
number of lamps in fixture  
ballast type used in the fixture  
number of ballasts in fixture  
total wattage per fixture SEE FIXTURE SCHEDULE

3216/3636 total interior wattage specified vs. allowed (whole building or space by space)  
900/490 total exterior wattage specified vs. allowed

- Additional Prescriptive Compliance
- 506.2.1 More Efficient HVAC Equipment
  - 506.2.2 Reduced Lighting Power Density
  - 506.2.3 Energy Recovery Ventilation Systems
  - 506.2.4 Higher Efficiency Service Water Heating
  - 506.2.5 On-Site Supply of Renewable Energy
  - 506.2.6 Automatic Daylighting Control Systems



1 LIGHTING PLAN  
E3 3/16"=1'-0"

OS BRYANT (HUBBELL) MSD1000W1 OR EQUAL WALL SWITCH OCCUPANCY SENSOR DUAL (ULTRASONIC AND PASSIVE INFRARED) TECHNOLOGY 1,000 SQUARE FOOT COVERAGE 800W INCANDESCENT, 1000W FLUORESCENT AT 120V AC ALL O.S. TO BE WALL MOUNTED TO ALLOW FOR OCCUPANT MANUAL OVERRIDE

1 UNSWITCHED LEG OF CIRCUIT TO BATT PACK, SWITCHED LEG TO NORMAL LED DRIVER

PERMITTING STAMP:



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SHEET TITLE:  
LIGHTING PLAN AND  
SCHEDULES

E-3  
SHEET OF

**LUMINAIRE SCHEDULE**

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS	LUMENS / LAMP
B		(1) LED	2' X 4' LED RECESSED TROFFER	RECESSED	COLUMBIA LJT2440HLGFS12EU	45	120V 1P 2W	5650
BE		(1) LED	2' X 4' LED RECESSED TROFFER WITH EMERGENCY BATTERY	RECESSED	COLUMBIA LJT2440HLGFS12EUELL14	45	120V 1P 2W	5650
C		(1) LED	2' X 4' LED RECESSED TROFFER	RECESSED	COLUMBIA LJT2440XLGFS12EU	73	120V 1P 2W	8775
CE		(1) LED	2' X 4' LED RECESSED TROFFER WITH EMERGENCY BATTERY BACK UP	RECESSED	COLUMBIA LJT2440XLGFS12EUELL14	73	120V 1P 2W	8775
EMER		(2) 1.5W LED	EMER. LIGHT W/1.5 HR NI-CAD BATTERY	WALL/CEILING	LITHONIA ELM2-LED	3	120V 1P 2W	0
EMER/EXIT		(2) 1.5W LED	COMBINATION EXIT/EMERGENCY UNIT WITH 90 MINUTE BATTERY AND MATCHING LED OUTDOOR REMOTE HEADS	WALL/CEILING	HUBBELL CCRRC CORD	4	120V 1P 2W	0
EXIT		(1) 2W LED	LED EXIT LIGHT WITH 90 MINUTE BATTERY	WALL/CEILING	HUBBELL CER	2	120V 1P 2W	0
F		(1)	CEILING FAN	CEILING	PER OWNER	80	120V 1P 2W	0
G		(1) LED	PENDANT FIXTURE	PENDANT	PRESCOLITE LD6LED3PW40K8	14	120V 1P 2W	700
H		(1) LED	6" LED DOWNLIGHT	RECESSED	PRESCOLITE D6LED3-6D9LED435K8FL35WHWT	14	120V 1P 2W	700
J		(1)	FLUSH MOUNT FIXTURE	CEILING	EATON FM19WR40R	30.5	120V 1P 2W	2450
M		(1) LED	PENDANT/CHANDLER FIXTURE	PENDANT	EATON 1800RLM80L401MUNVSTD	42	120V 1P 2W	4611
N		(1) LED	OUTDOOR WALL SCONCE, HALF MOON, BRONZE	WALL	MAXIM ZENITH LED E26	12	120V 1P 2W	1100
T1		(4)	8"-0" TRACK SECTION W/ 4 TRACK HEADS	CEILING	PRESCOLITE AKT8 W/ AKTMNLED9L40K8 TRACK HEAD	56	120V 1P 2W	900

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

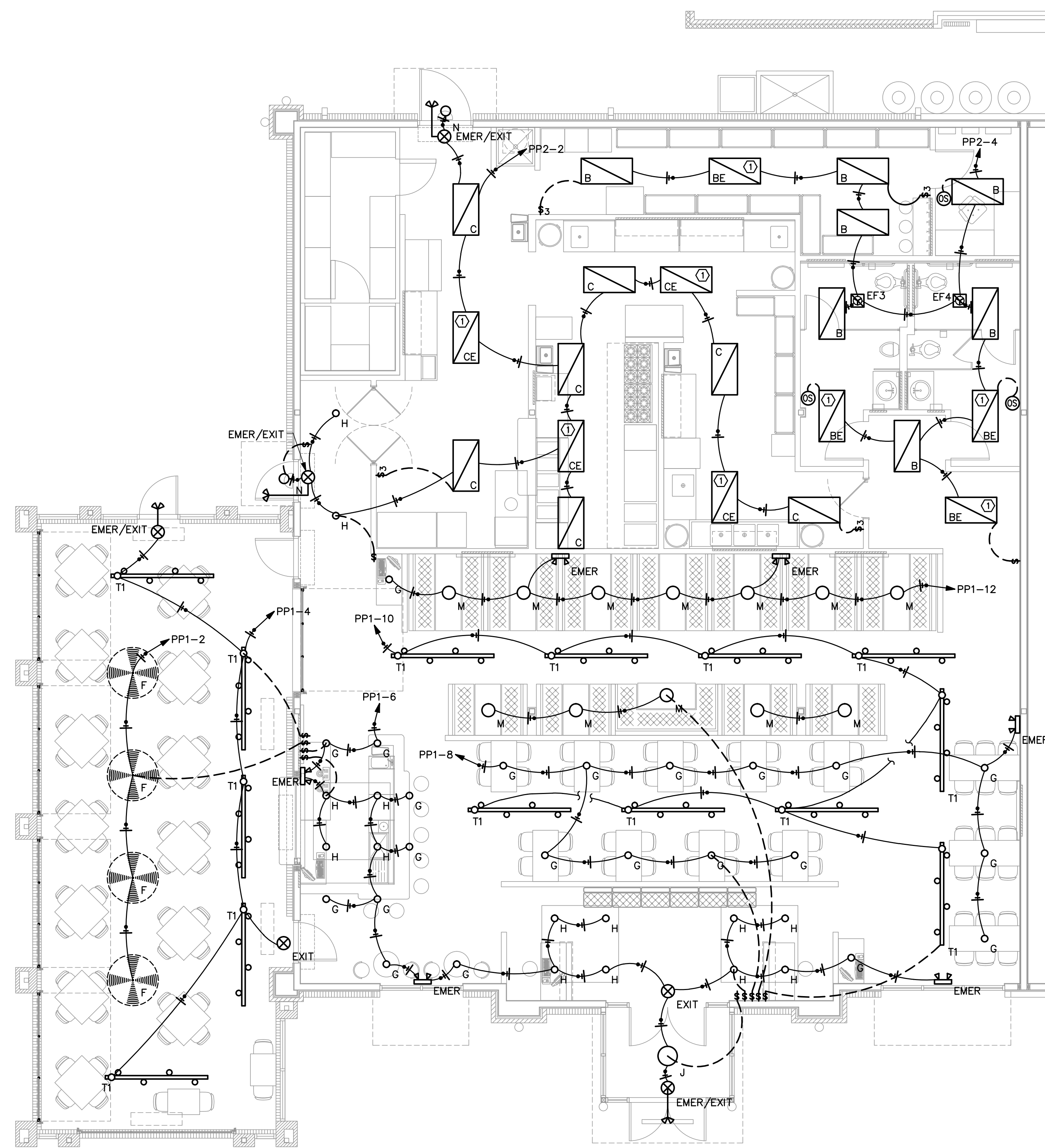
ELECTRICAL SYSTEM AND EQUIPMENT

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

Lighting schedule (each fixture type)  
lamp type required in fixture  
number of lamps in fixture  
ballast type used in the fixture  
number of ballasts in fixture  
total wattage per fixture SEE FIXTURE SCHEDULE

3216/3636 total interior wattage specified vs. allowed (whole building or space by space)  
800/480 total exterior wattage specified vs. allowed

- Additional Prescriptive Compliance
- 506.2.1 More Efficient HVAC Equipment
  - 506.2.2 Reduced Lighting Power Density
  - 506.2.3 Energy Recovery Ventilation Systems
  - 506.2.4 Higher Efficiency Service Water Heating
  - 506.2.5 On-Site Supply of Renewable Energy
  - 506.2.6 Automatic Daylighting Control Systems



1 LIGHTING PLAN  
E3 3/16" = 1'-0"

- (OS) BRYANT (HUBBELL) MSD1000W1 OR EQUAL WALL SWITCH OCCUPANCY SENSOR DUAL (ULTRASONIC AND PASSIVE INFRARED) TECHNOLOGY 1,000 SQUARE FOOT COVERAGE 800W INCANDESCENT, 1000W FLUORESCENT AT 120V AC ALL O.S. TO BE WALL MOUNTED TO ALLOW FOR OCCUPANT MANUAL OVERRIDE
- (1) UNSWITCHED LEG OF CIRCUIT TO BATT PACK, SWITCHED LEG TO NORMAL LED DRIVER

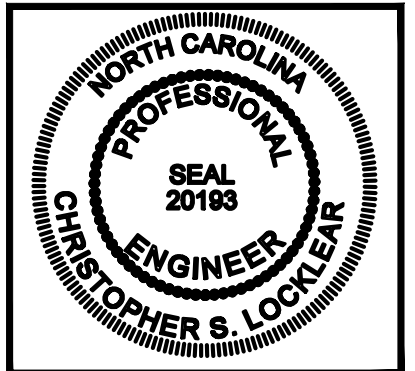


ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO GOVERNOR THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. CONTRACTORS SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND ALL TRADES OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES' USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.



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Jun 29, 2020



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DESIGNED TO BUILD

SHEET TITLE:  
HVAC NOTES AND SCHEDULES

M-1  
SHEET OF

UNIT NO.	NOMINAL COOLING	NOMINAL HEATING	HSPF	SEER	UNIT VOLT	UNIT PHASE	MOCP	AMPS	REF.	MFG & MODEL	NET WEIGHT
MSU-1 (OUTDOOR UNIT)	12,000	16,000	14.0	29.3	208	1	15	11.9	R410A	(OUTDOOR) FUJITSU-HALCYON ASU12RLS3 (INDOOR) FUJITSU-HALCYON ASU12RLSS3Y	OUTDOOR-84 LBS. INDOOR-31 LBS.

UNIT NO.	TOTAL CFM	O.A. CFM	EXT. S.P.	EVAP. FAN HP	COMPRESSOR AMPS	NO. OF COMPR.	FAN AMPS	NO. OF FANS	MCA	MOCP	UNIT VOLT	UNIT PHASE	GROSS COOLING	SEER	HEATING (IN/OUT)	AFLUE	REFRIG.	REMARKS	NET WEIGHT (NOT INCLUDING ACCESSORIES)
RTU-1	3,000	-	0.58	2.75	15.9	2	4.0	1	42	50	208	3	94,800	12.7/11.20	200,000/160,000	80%	R410A	TRANE: YSC092F3 7.5 TON PACKAGED GAS PACK ECONOMIZER, (ENTHALPY CONTROL)	1026 LBS.
RTU-2	3,000	-	0.58	2.75	15.9	2	4.0	1	42	50	208	3	94,800	12.7/11.20	200,000/160,000	80%	R410A	TRANE: YSC092F3 7.5 TON PACKAGED GAS PACK ECONOMIZER, (ENTHALPY CONTROL)	1026 LBS.
RTU-3	3,000	-	0.58	2.75	15.9	2	4.0	1	42	50	208	3	94,800	12.7/11.20	200,000/160,000	80%	R410A	TRANE: YSC092F3 7.5 TON PACKAGED GAS PACK ECONOMIZER, (ENTHALPY CONTROL)	1026 LBS.

OUTDOOR UNIT														MFG & MODEL	REMARKS
UNIT NO.	NO. OF COMPR.	RLA AMPS	NO. OF FANS	UNIT VOLT	UNIT PHASE	MOCP	MCA	WIRE SIZE (DU. 75 C)	SEER						
CU-12	1	12.8	1	208	1	25	16.8	#12	14					CAPITVAIRE 24ACC430W	2.5 TON CONDENSING UNIT - 134 LBS

MARK	LOCATION	SERVICE	CFM	S.P.	AMPS	RPM	VOLT	PHASE	DRIVE	MODEL
MAU-1	ROOF	HOOD	3736	0.75	2 HP	1740	208	3	DIRECT	CAPITVAIRE A2-D.250-G10

ID	TOTAL AIR	RECIRC. AIR	O/S AIR	EXH. CFM	MUA
RTU-1	3000	2000	1000		
HOOD EX.				4670	
HOOD SU.					3736
TOTALS			+1000	-4670	+3736
BUILDING PRESSURIZATION +66 CFM					

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 T&B 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.

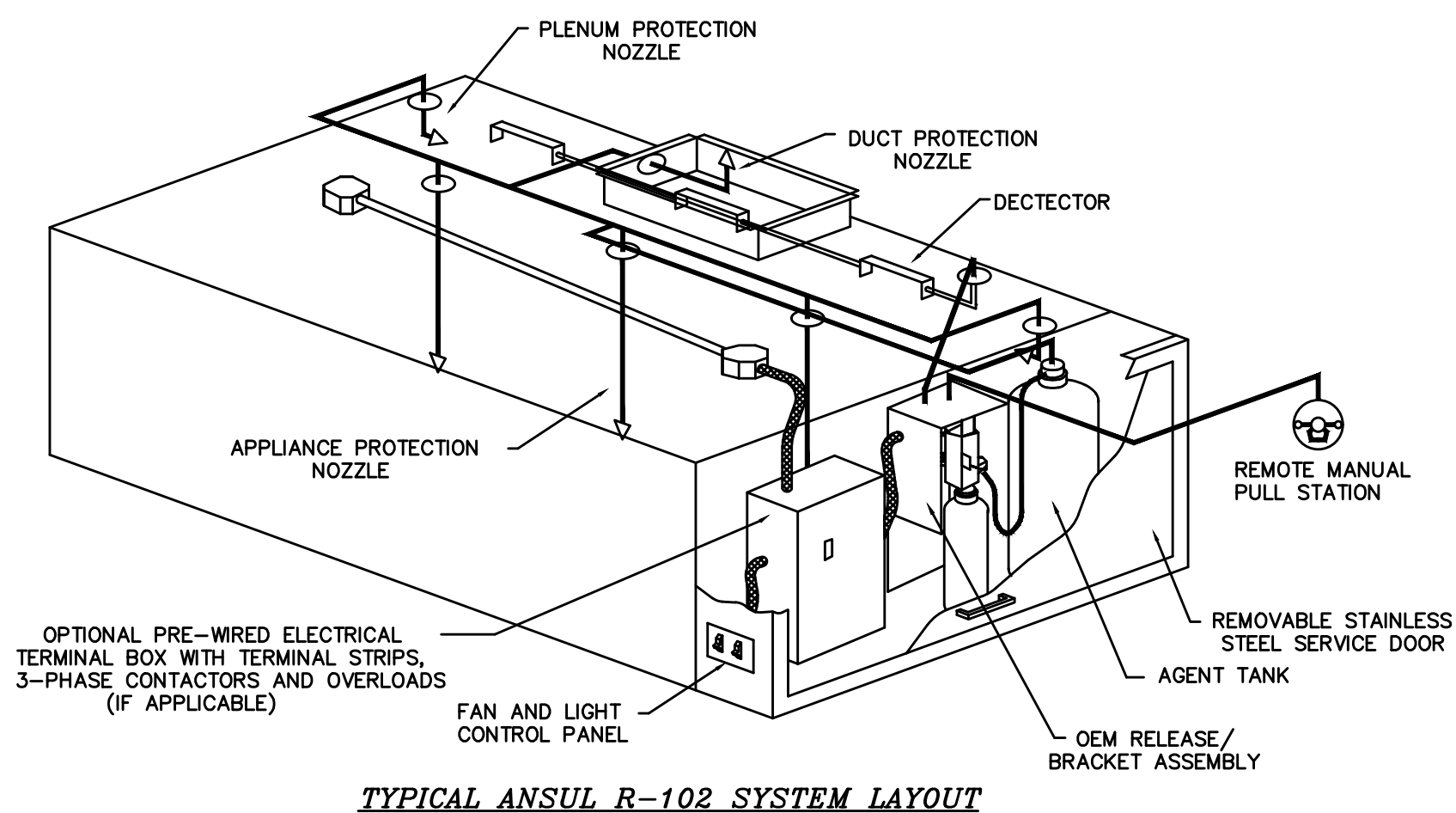
ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER. ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING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

ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

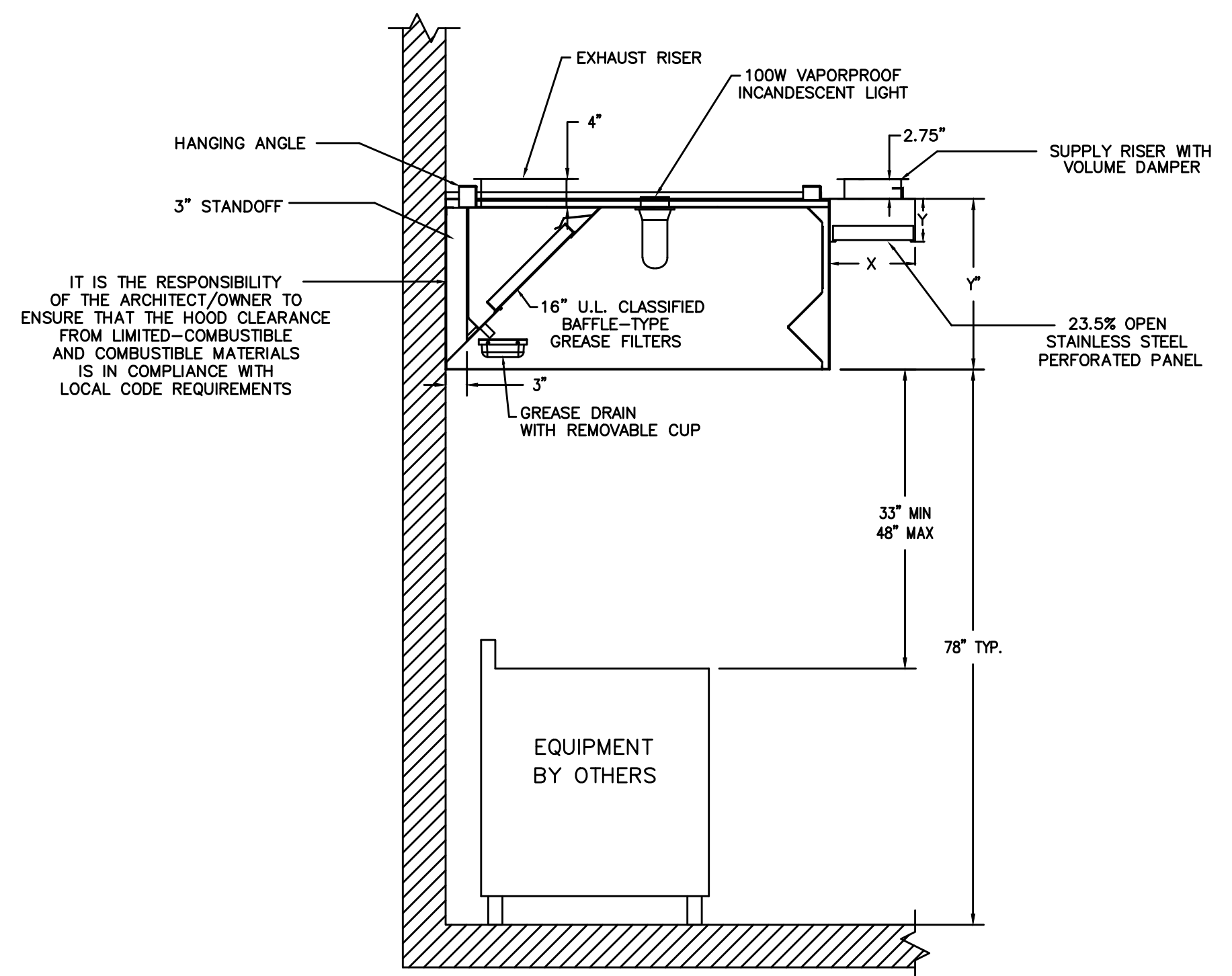
BUILDING CONTRACTOR SHALL PROVIDE PERMANENT ACCESS TO ROOF STRUCTURE FOR ACCESS TO MECHANICAL EQUIPMENT WHEN ROOF STRUCTURE IS GREATER THAN 16'-0" HIGH.

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
	CONDENSATE DRAIN PIPING
	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
	DUCT SMOKE DETECTOR

2  
M1  
HVAC NOTES  
N.T.S.



TYPICAL ANSUL R-102 SYSTEM LAYOUT



1  
M1  
KITCHEN HOOD DETAILS  
N.T.S.

MARK	LOCATION	SERVICE	CFM	S.P.	WATTS	RPM	VOLT	PHASE	DRIVE	REMARKS
EF3,4	CEILING	TOILETS	140	0.1"	100	710	120	1	DIRECT	BROWN #150 OR EQ. 6" FLEX TO ROOF/WALL CAP CLASS O OR 1 FLEX ONLY NO RES 1 DENTAL TYPE FLEX PERMITTED
EF1	ROOF	HOOD	4670	1.0"	2,10 BHP	1495	208	1	DIRECT	ROOF MTD. UPBLAST EXHAUST FAN. GREENHECK CUE-180-2 OR EQUAL.

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)	300-400	SINGLE DEFLECTION	16 X 6	10"	PRICE SERIES 610 OFF WHITE, ALUM.
(E)		N/A	12 X 12	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN
(F)		N/A	20 X 20	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

**Thermal Zone**  
winter dry bulb: 23'  
summer dry bulb: 89'

**Interior design conditions**  
winter dry bulb: 75'  
summer dry bulb: 75'  
relative humidity: 50'

Building heating load: 163,374 BTU  
Building cooling load: 142,966 BTU

Mechanical Spacing Conditioning System

**Unitary**  
description of unit: PACKAGE GAS PACKS/ SPLIT SYS.  
heating efficiency: 78% AFLUE/8.50 HSPF  
cooling efficiency: 12.6 IEER/13.0 SEER  
size category of unit: 7.5 TONS

**Boiler**  
Size category. If oversized, state reason: \_\_\_\_\_

**Chiller**  
Size category. If oversized, state reason: \_\_\_\_\_

List equipment efficiencies: \_\_\_\_\_

OUTSIDE AIR CALCULATION -2018 NC MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz

OCCUPANCY TYPE:	SF (Az)	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED
FOYER	67	1	5	0.06	9.02	
WAITING	283	20	7.5	0.18	200.94	
BAR	220	22	7.5	0.18	204.6	
DINING	1555	109	7.5	0.18	1097.4	
CORRIDOR	51			0.06	3.06	
WOMEN	162				0	140
MEN	109				0	140
TOTAL CFM REQUIRED					1515.02	280
TOTAL CFM FURNISHED						280
<b>RTU-1,2</b>						
WAITING STATION	104	1	5	0.06	11.24	
KITCHEN	651				0	456
STORAGE	285			0.12	34.2	
OFFICE	86	1	5	0.06	10.16	
TOTAL CFM REQUIRED					55.6	456
TOTAL CFM FURNISHED						456

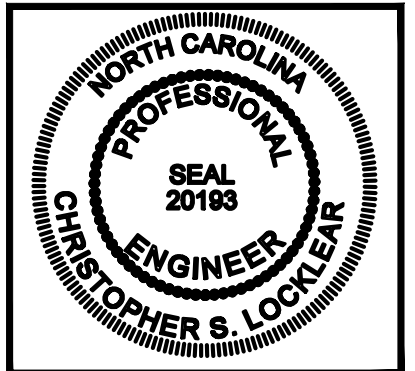


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SHEET TITLE:  
HVAC NOTES AND SCHEDULES

M-1  
SHEET OF

MINI SPLIT SYSTEM SCHEDULE											
UNIT NO.	NOMINAL COOLING	NOMINAL HEATING	HSPF	SEER	UNIT VOLT	UNIT PHASE	MOCP	AMPS	REF.	MFG & MODEL	NET WEIGHT
MSU-1 (OUTDOOR UNIT)	12,000	16,000	14.0	29.3	208	1	15	11.9	R410A	(OUTDOOR) FUJITSU-HALCYON ASU12RLS3 (INDOOR) FUJITSU-HALCYON ASU12RLSS3Y	OUTDOOR-84 LBS. INDOOR-31 LBS.

PACKAGED GAS PACK SCHEDULE																			
UNIT NO.	TOTAL CFM	O.A. CFM	EXT. S.P.	EVAP. FAN HP	COMPRESSOR AMPS	NO. OF COMPR.	FAN AMPS	NO. OF FANS	MCA	MOCP	UNIT VOLT	UNIT PHASE	GROSS COOLING	SEER	HEATING (IN/OUT)	AFLUE	REFRIG.	REMARKS	NET WEIGHT (NOT INCLUDING ACCESSORIES)
RTU-1	3,000	-	0.58	2.75	15.9	2	4.0	1	42	50	208	3	94,800	12.7/11.20	200,000/160,000	80%	R410A	TRANE: YSC092F3 7.5 TON PACKAGED GAS PACK ECONOMIZER, (ENTHALPY CONTROL)	1026 LBS.
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CONDENSING UNIT SCHEDULE													
OUTDOOR UNIT											MFG & MODEL	REMARKS	
UNIT NO.	NO. OF COMPR.	RLA AMPS	NO. OF FANS	UNIT VOLT	UNIT PHASE	MOCP	MCA	WIRE SIZE (DU. 75 C)	SEER				
CU-12	1	12.8	1	208	1	25	16.8	#12	14			CAPITVAIRE 24ACC430W	2.5 TON CONDENSING UNIT - 134 LBS

MAKE-UP AIR UNIT										
MARK	LOCATION	SERVICE	CFM	S.P.	AMPS	RPM	VOLT	PHASE	DRIVE	MODEL
MAU-1	ROOF	HOOD	3736	0.75	2 HP	1740	208	3	DIRECT	CAPITVAIRE A2-D.250-G10

AIR BALANCE SCHEDULE						
ID	TOTAL AIR	RECIRC. AIR	O/S AIR	EXH. CFM	MUA	
RTU-1	3000	2000	1000			
HOOD EX.				4670		
HOOD SU.					3736	
TOTALS			+1000	-4670	+3736	
BUILDING PRESSURIZATION +66 CFM						

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.

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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.

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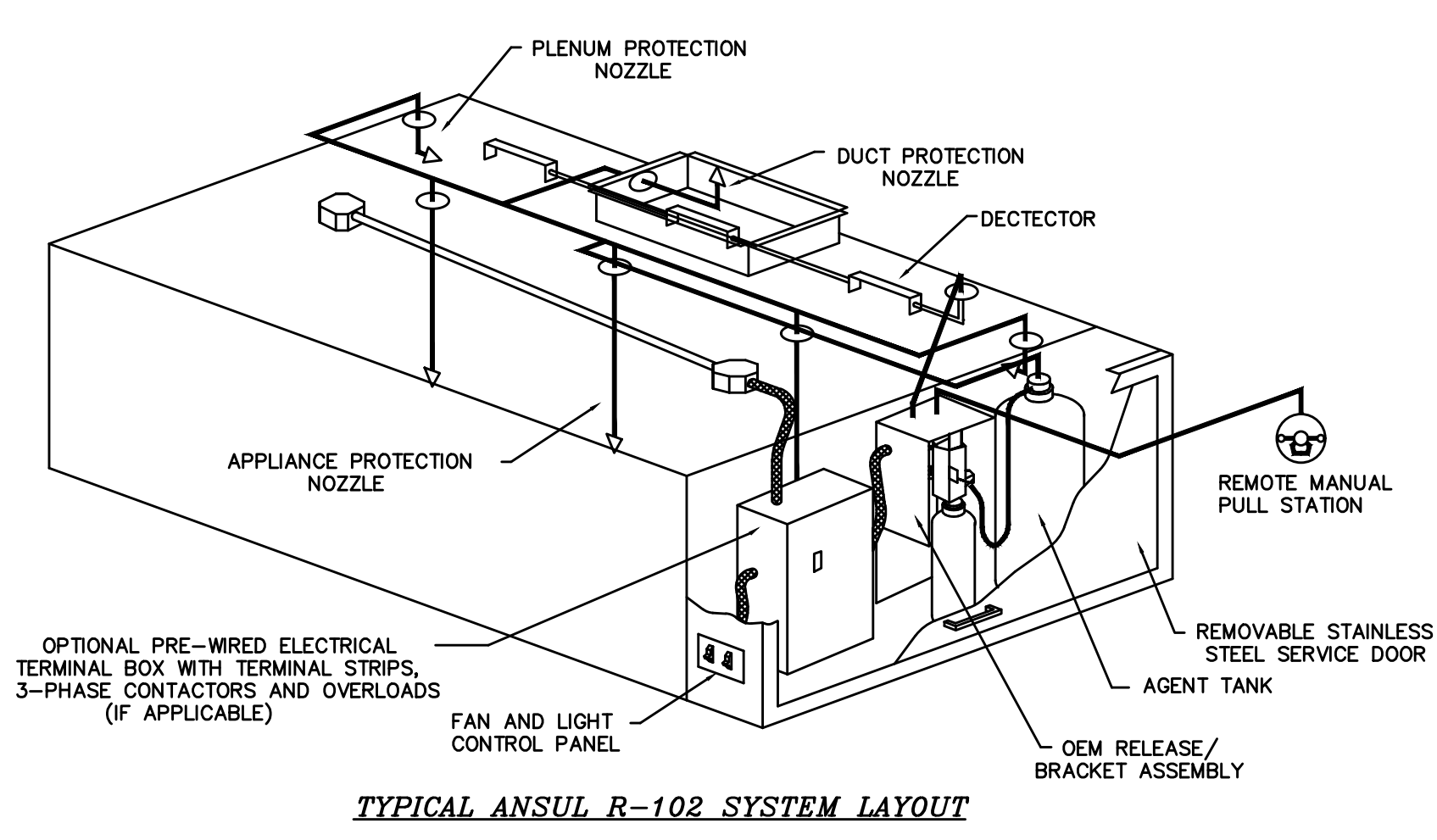
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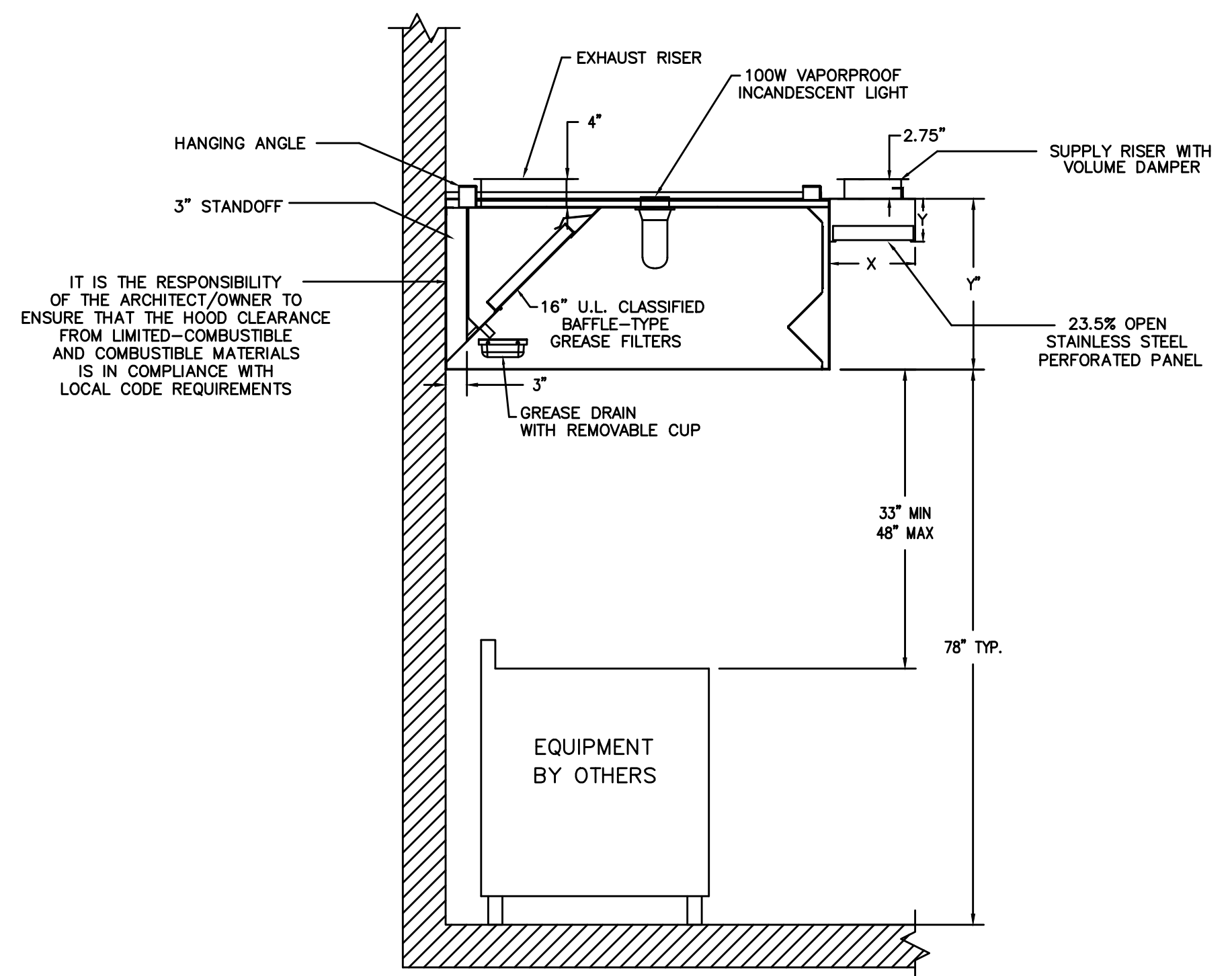
ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

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

2  
M1  
HVAC NOTES  
N.T.S.



TYPICAL ANSUL R-102 SYSTEM LAYOUT



1  
M1  
KITCHEN HOOD DETAILS  
N.T.S.

FAN SCHEDULE										
MARK	LOCATION	SERVICE	CFM	S.P.	WATTS	RPM	VOLT	PHASE	DRIVE	REMARKS
EF3,4	CEILING	TOILETS	140	0.1"	100	710	120	1	DIRECT	BROWN #150 OR EQ. 6" FLEX TO ROOF/WALL CAP CLASS 0 OR 1 FLEX ONLY NO RES 1 DENTAL TYPE FLEX PERMITTED
EF1	ROOF	HOOD	4670	1.0"	2,10 BHP	1495	208	1	DIRECT	ROOF MTD. UPBLAST EXHAUST FAN. GREENHECK CUE-180-2 OR EQUAL.

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)	300-400	SINGLE DEFLECTION	16 X 6	10"	PRICE SERIES 610 OFF WHITE, ALUM.
(E)		N/A	12 X 12	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN
(F)		N/A	20 X 20	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone  
winter dry bulb: 23'  
summer dry bulb: 89'

Interior design conditions  
winter dry bulb: 75'  
summer dry bulb: 75'  
relative humidity: 50'

Building heating load: 163,374 BTU  
Building cooling load: 142,966 BTU

Mechanical Spacing Conditioning System

Unitary  
description of unit: PACKAGE GAS PACKS/ SPLIT SYS.  
heating efficiency: 78% AFLUE/8.50 HSPF  
cooling efficiency: 12.6 IEER/13.0 SEER  
size category of unit: 7.5 TONS

Boiler  
Size category. If oversized, state reason: \_\_\_\_\_

Chiller  
Size category. If oversized, state reason: \_\_\_\_\_

List equipment efficiencies: \_\_\_\_\_

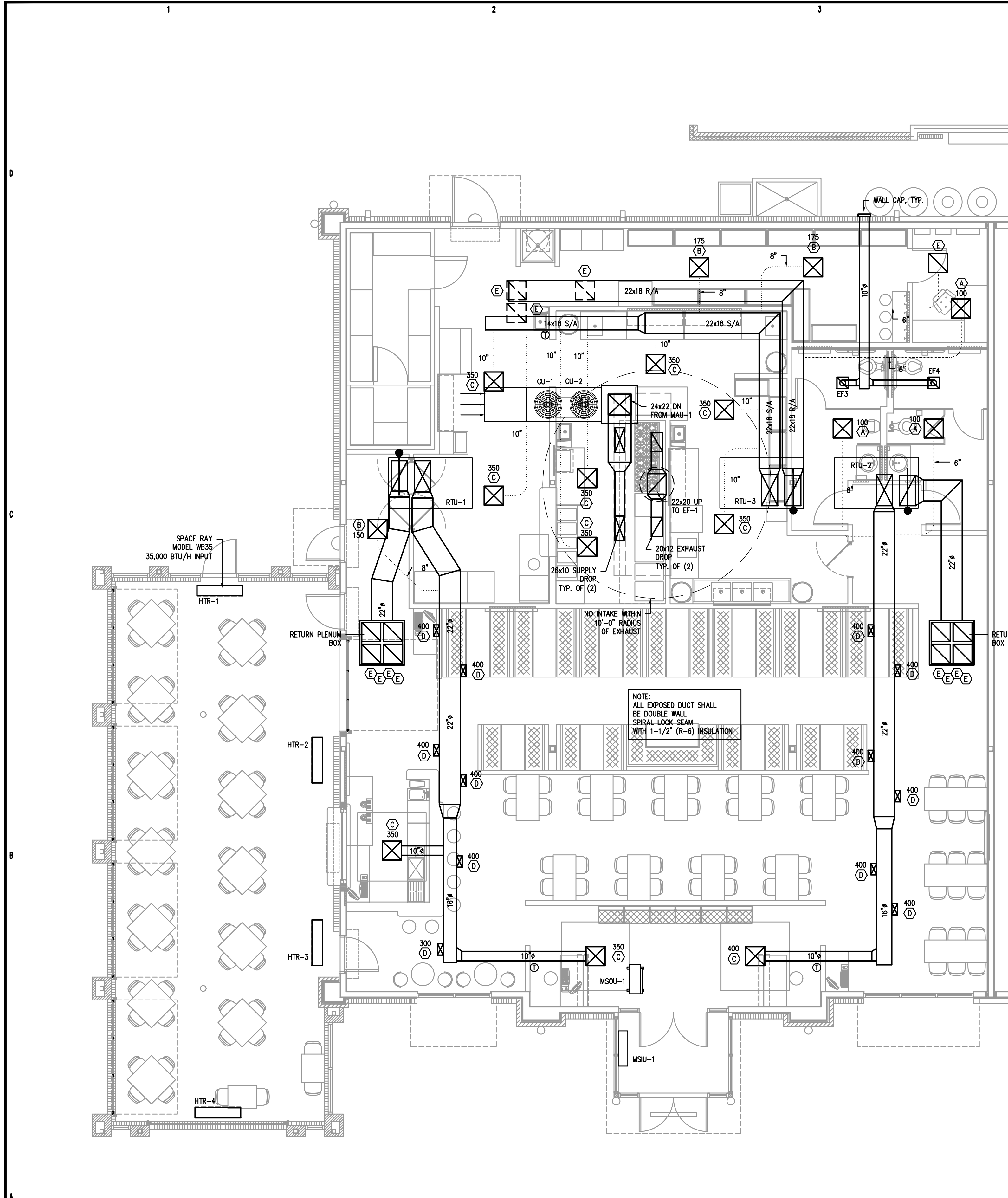
OUTSIDE AIR CALCULATION -2018 NC MECHANICAL CODE (TABLE 403.3.1.1) Vbz = RpPz + RaAz

OCCUPANCY TYPE:	SF (Az)	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED
FOYER	67	1	5	0.06	9.02	
WAITING	283	20	7.5	0.18	200.94	
BAR	220	22	7.5	0.18	204.6	
DINING	1555	109	7.5	0.18	1097.4	
CORRIDOR	51			0.06	3.06	
WOMEN	162				0	140
MEN	109				0	140
TOTAL CFM REQUIRED					1515.02	280
TOTAL CFM FURNISHED						280

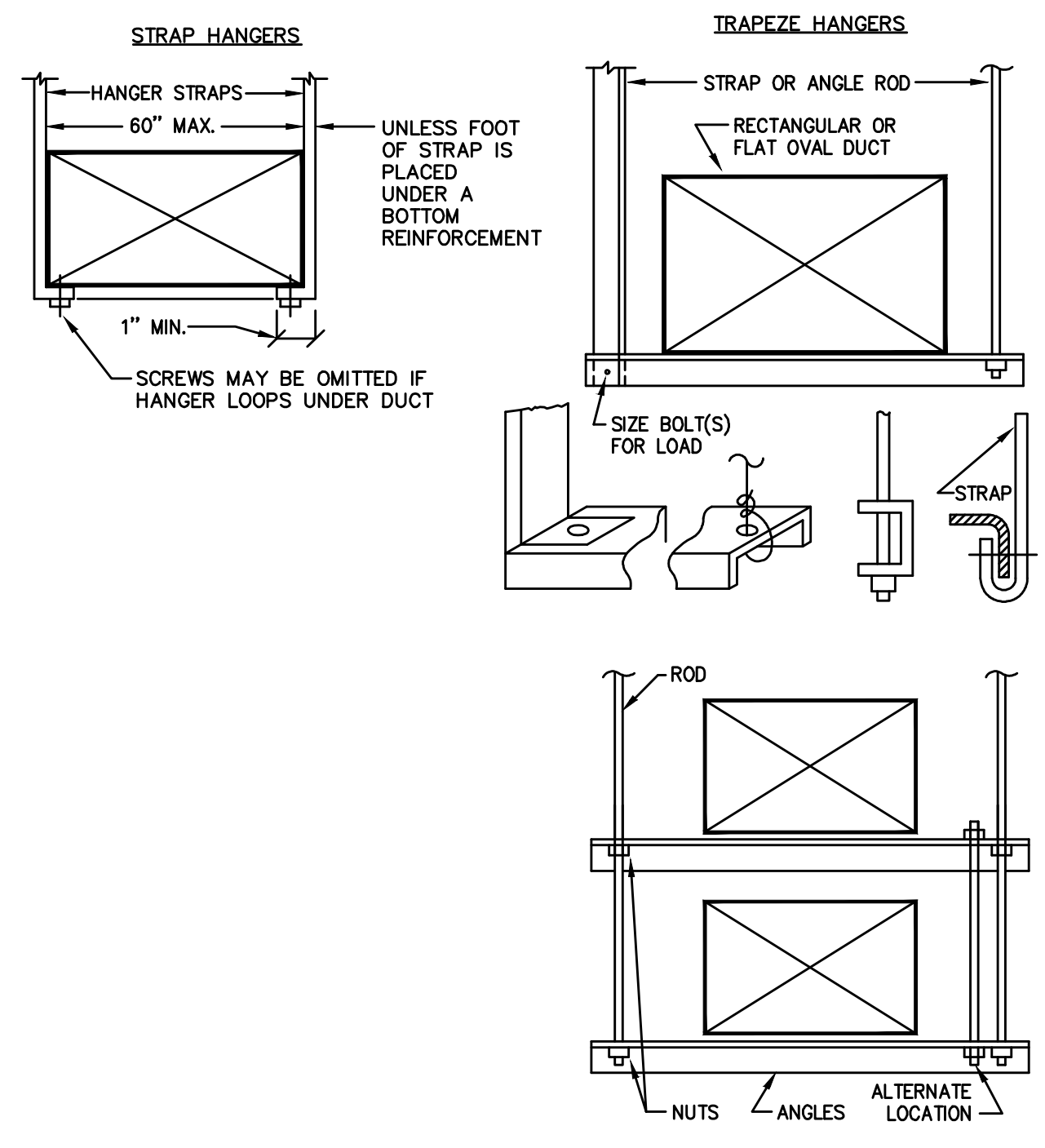
  

OCCUPANCY TYPE:	SF (Az)	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED
WAITING STATION	104	1	5	0.06	11.24	
KITCHEN	651				0	456
STORAGE	285			0.12	34.2	
OFFICE	86	1	5	0.06	10.16	
TOTAL CFM REQUIRED					55.6	456
TOTAL CFM FURNISHED						456

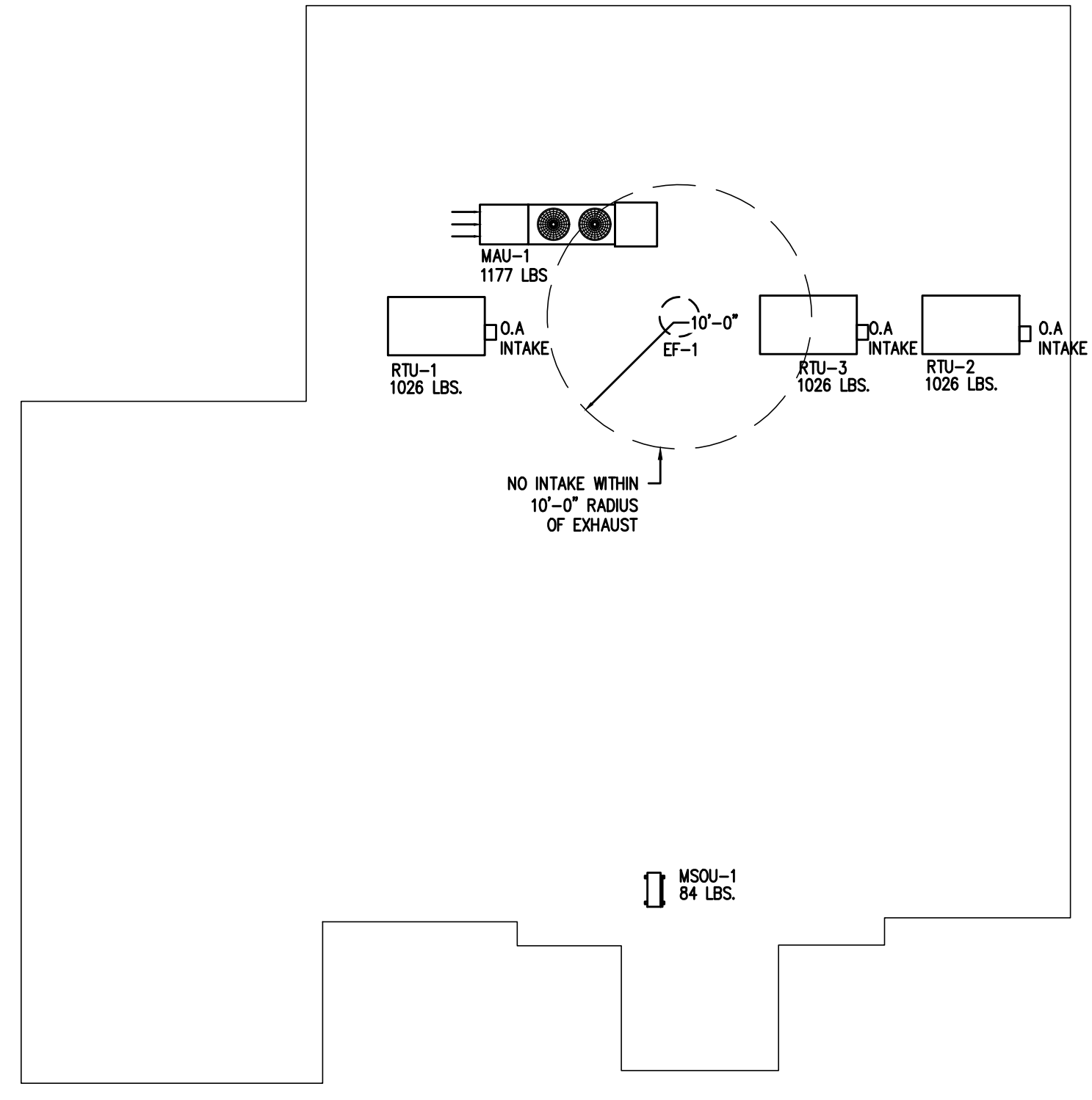




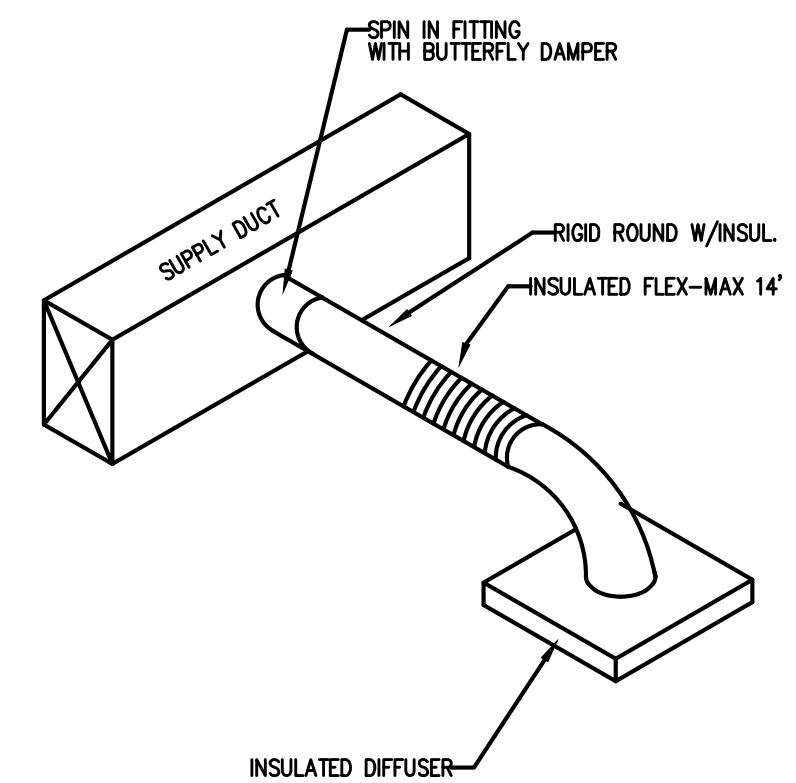
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M2  
**HVAC PLAN**  
3/16"=1'-0"



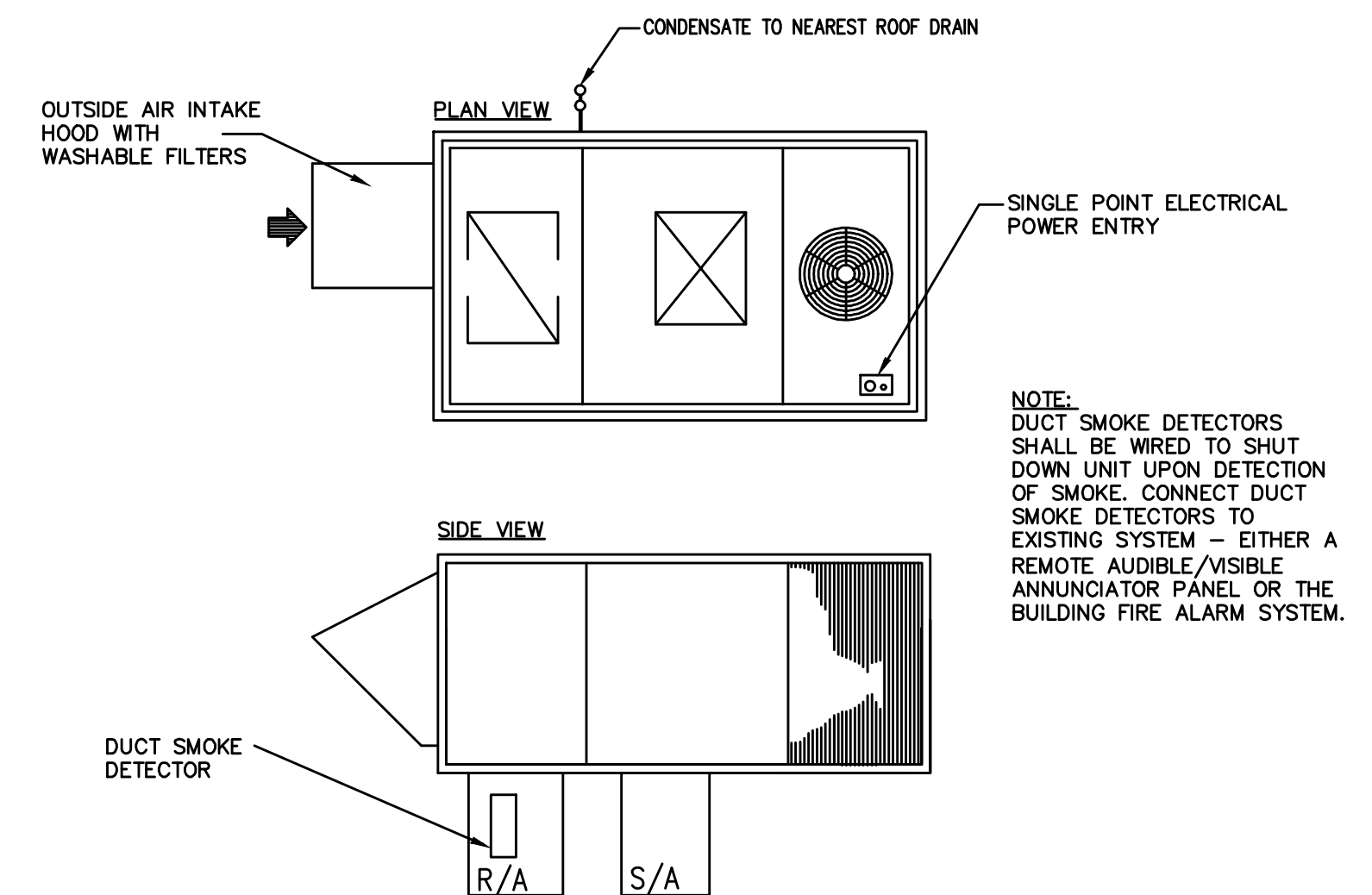
**2**  
M2  
**DUCT SUPPORT DETAIL**  
N.T.S.



**3**  
M2  
**ROOF PLAN**  
N.T.S.



**4**  
M2  
**DIFFUSER TAKE-OFF DETAIL**  
N.T.S.



**5**  
M2  
**ROOFTOP UNIT DETAIL**  
N.T.S.

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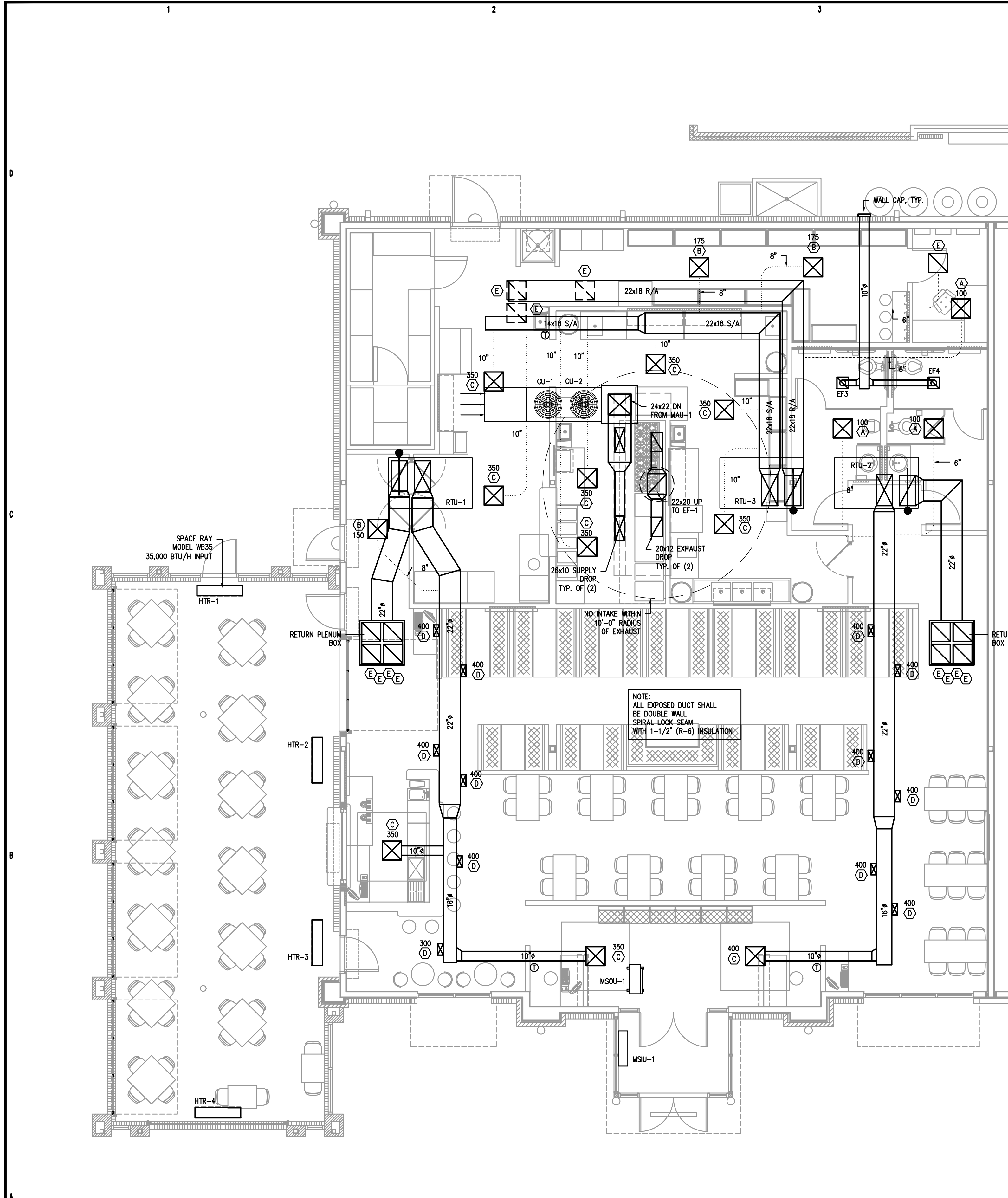
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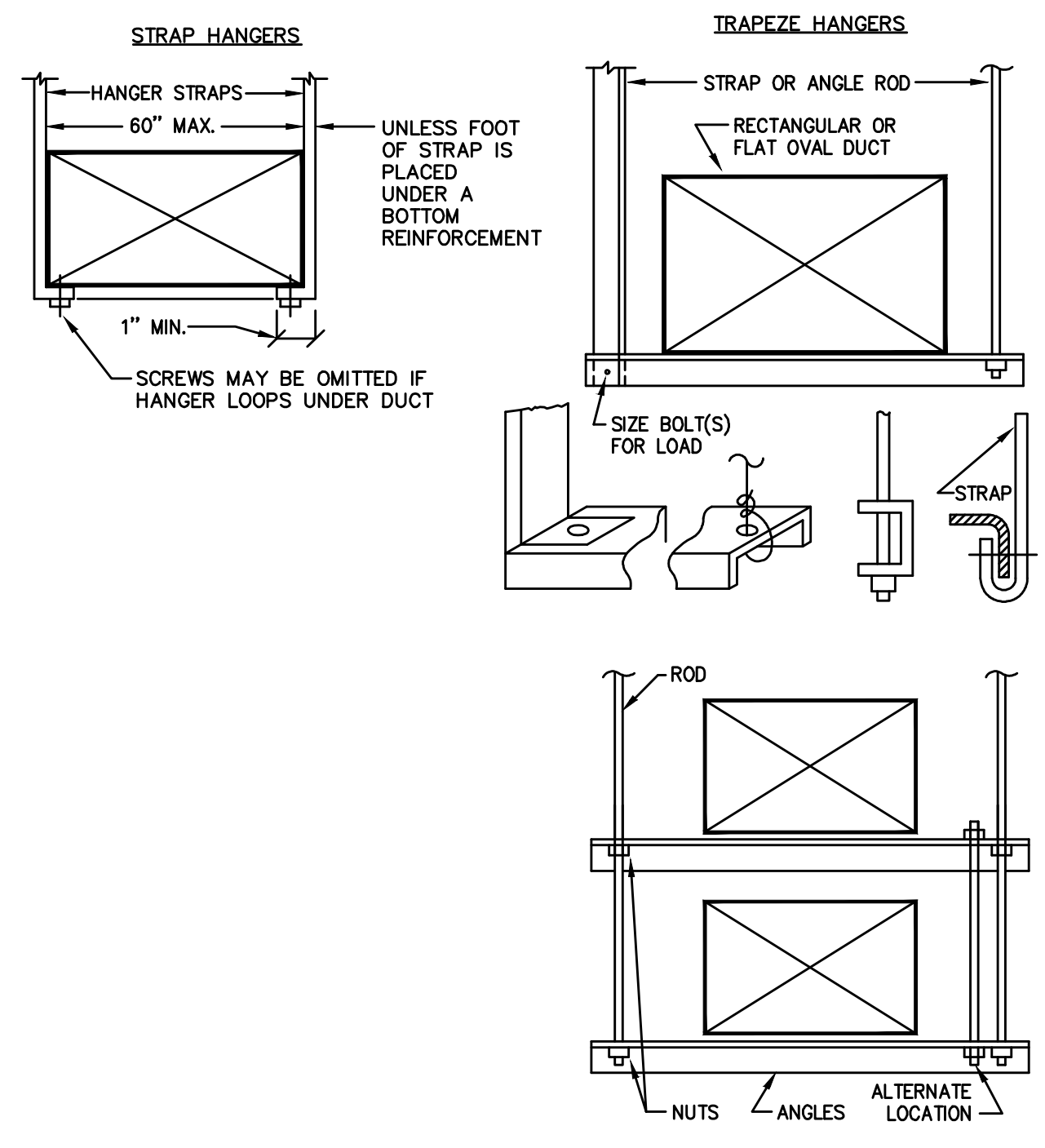
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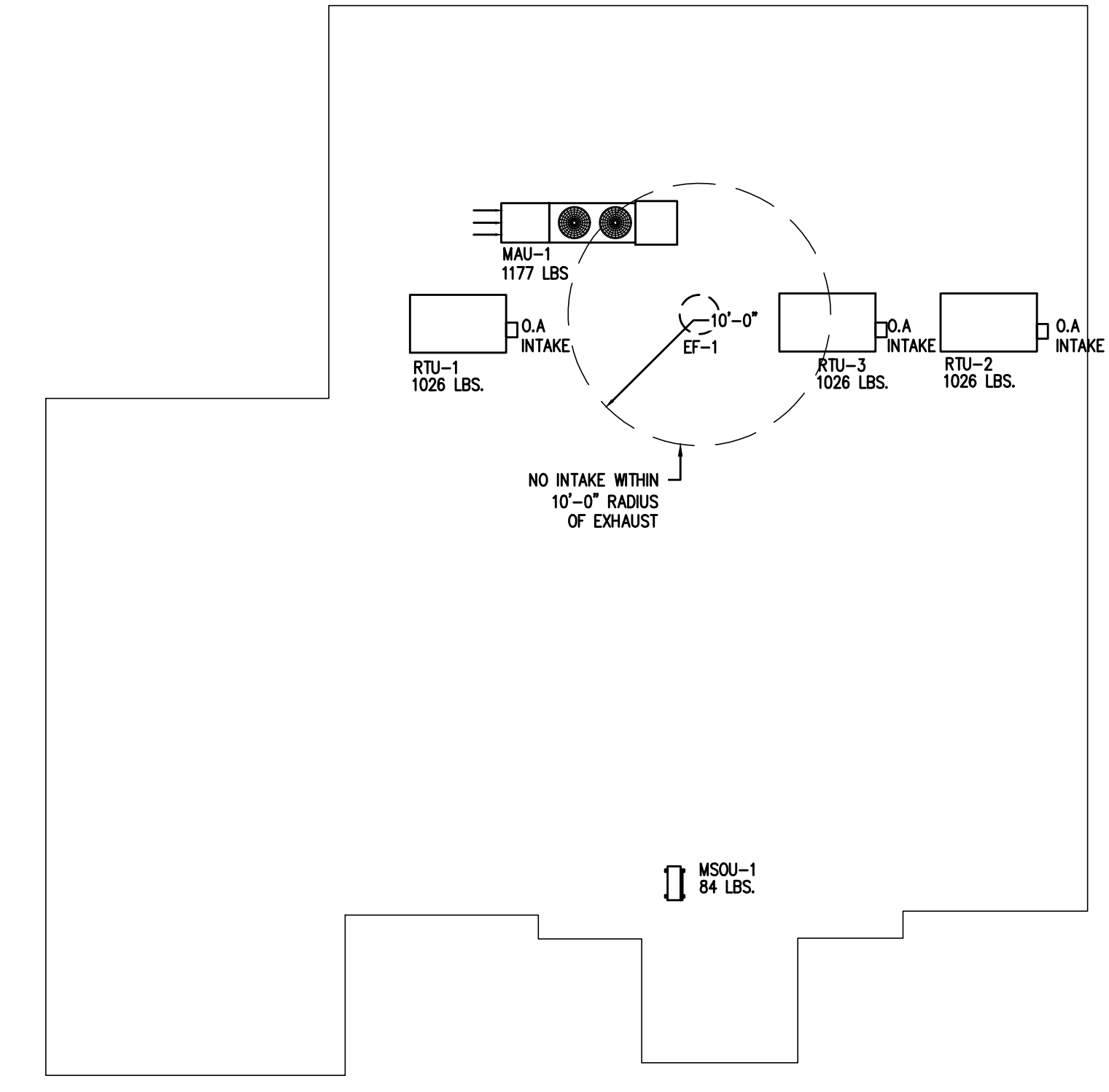




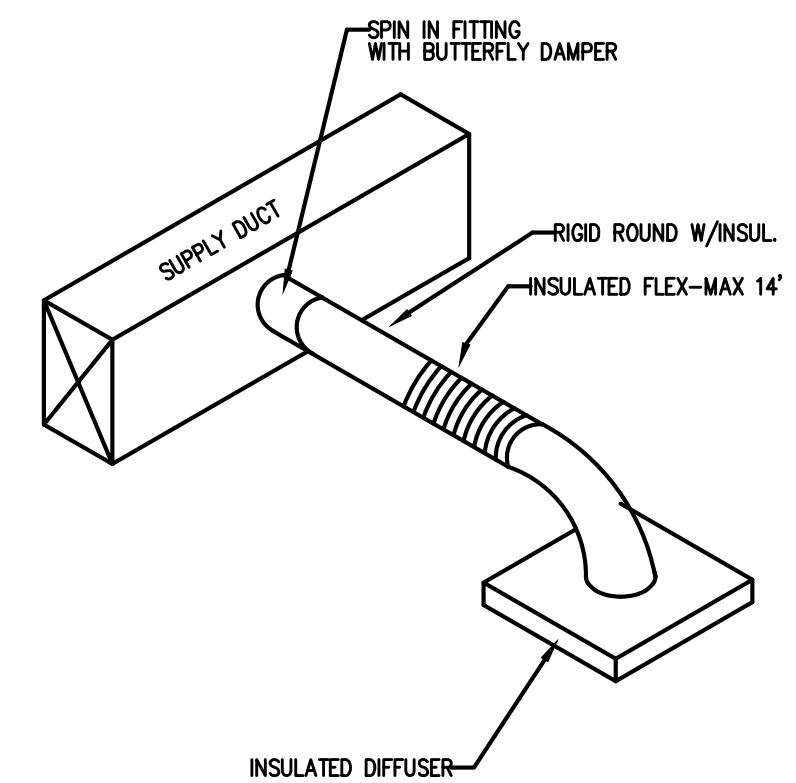
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M2  
**HVAC PLAN**  
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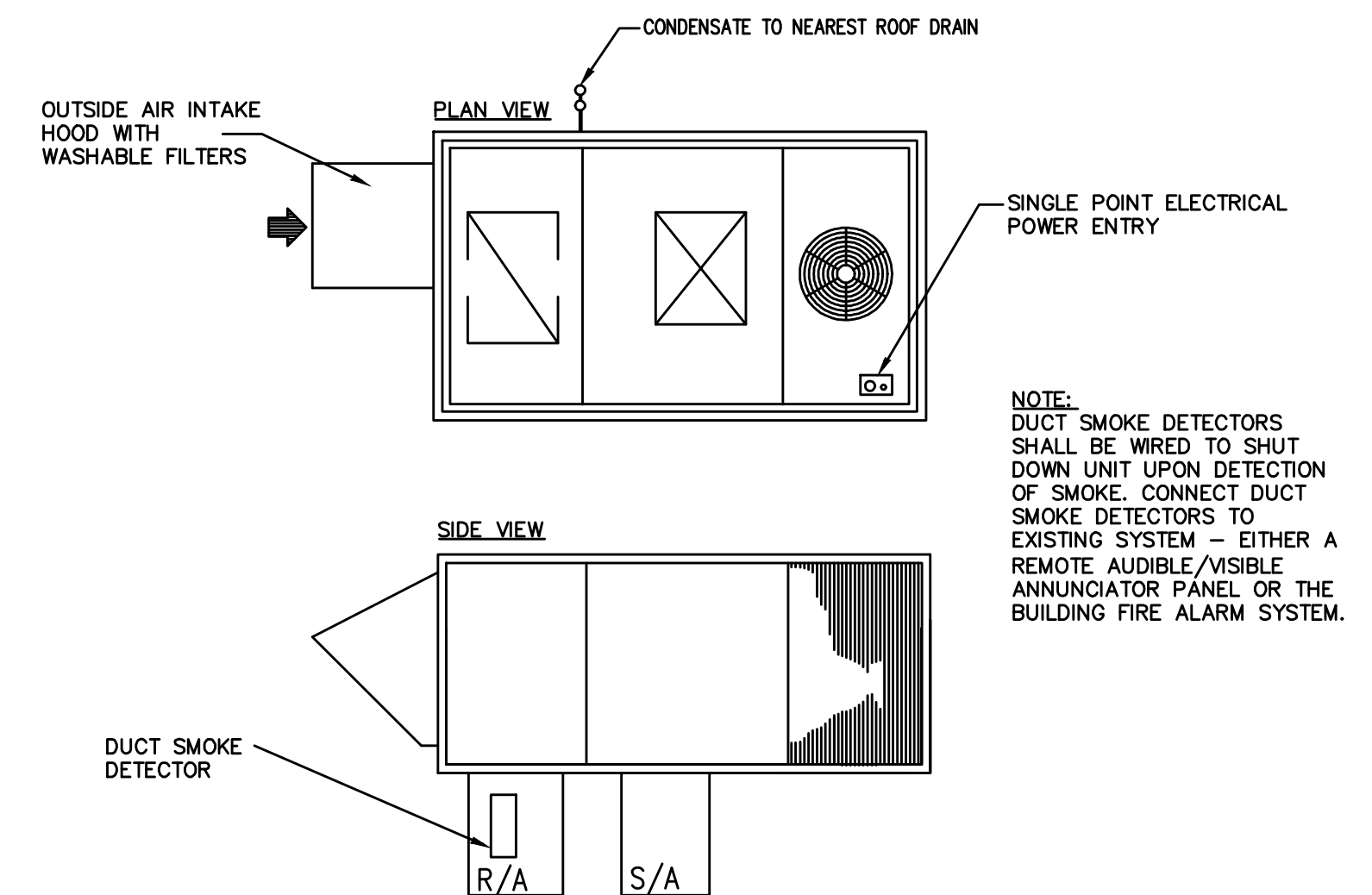
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M2  
**DUCT SUPPORT DETAIL**  
N.T.S.



**3**  
M2  
**ROOF PLAN**  
N.T.S.



**4**  
M2  
**DIFFUSER TAKE-OFF DETAIL**  
N.T.S.



**5**  
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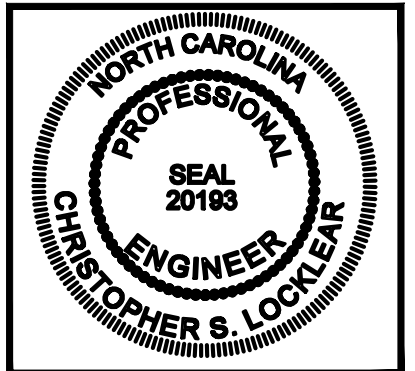


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SHEET TITLE:  
 PLUMBING PLAN,  
 NOTES, SCHEDULES  
 AND DETAILS

P-1  
 SHEET OF

GENERAL PLUMBING SYMBOLS	
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	TEE
	ELBOW
	WALL CLEANOUT
	FLOOR CLEANOUT
	GATE VALVE
	COLD WATER
	HOT WATER
	VENT PIPING
	WASTE PIPING
	ROOF DRAIN PIPING

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSI. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 18" AIR CHAMBERS OR SHOCK ABSORBERS. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. HOT WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE DISCONNECTED PRIOR TO PLACING IN SERVICE. PVC/PEX MAYBE SUBSTITUTED FOR COPPER.

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI.

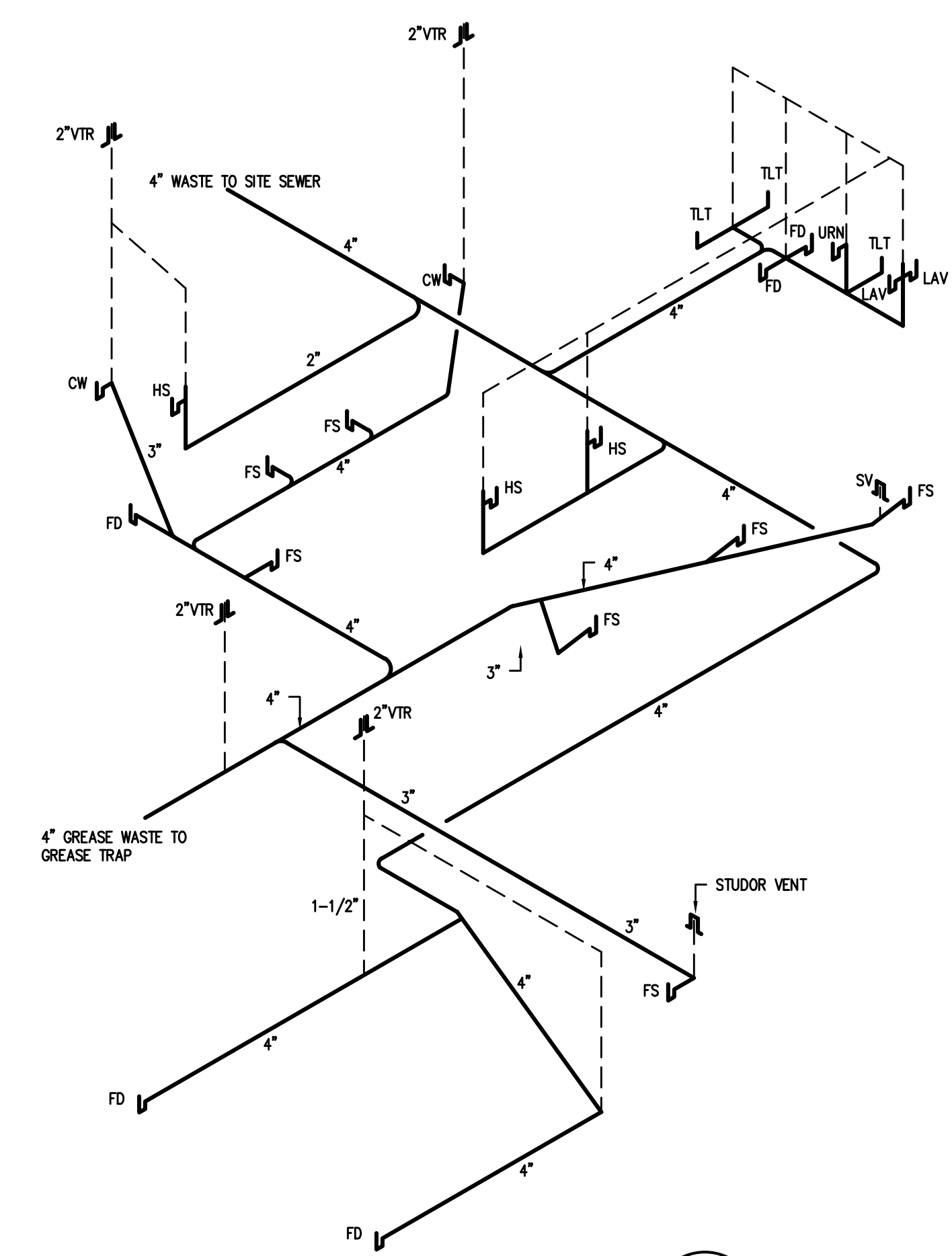
GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON SCREW-TYPE FITTINGS.

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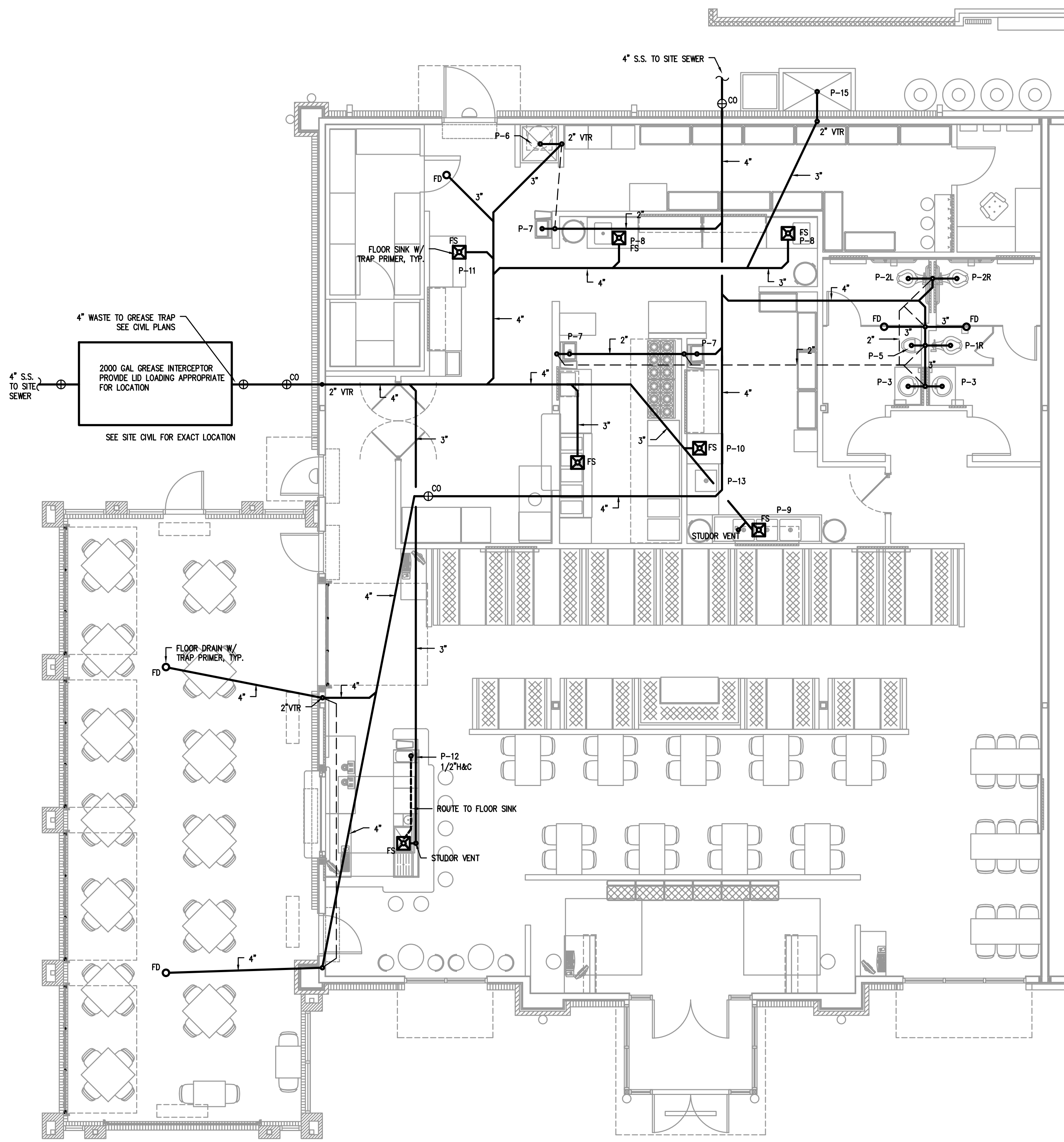
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ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS

**2 PLUMBING NOTES**  
 N.T.S.



**3 WASTE RISER DETAIL**  
 N.T.S.



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

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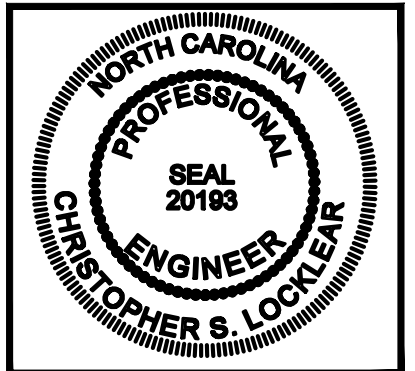


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P-1  
 SHEET OF

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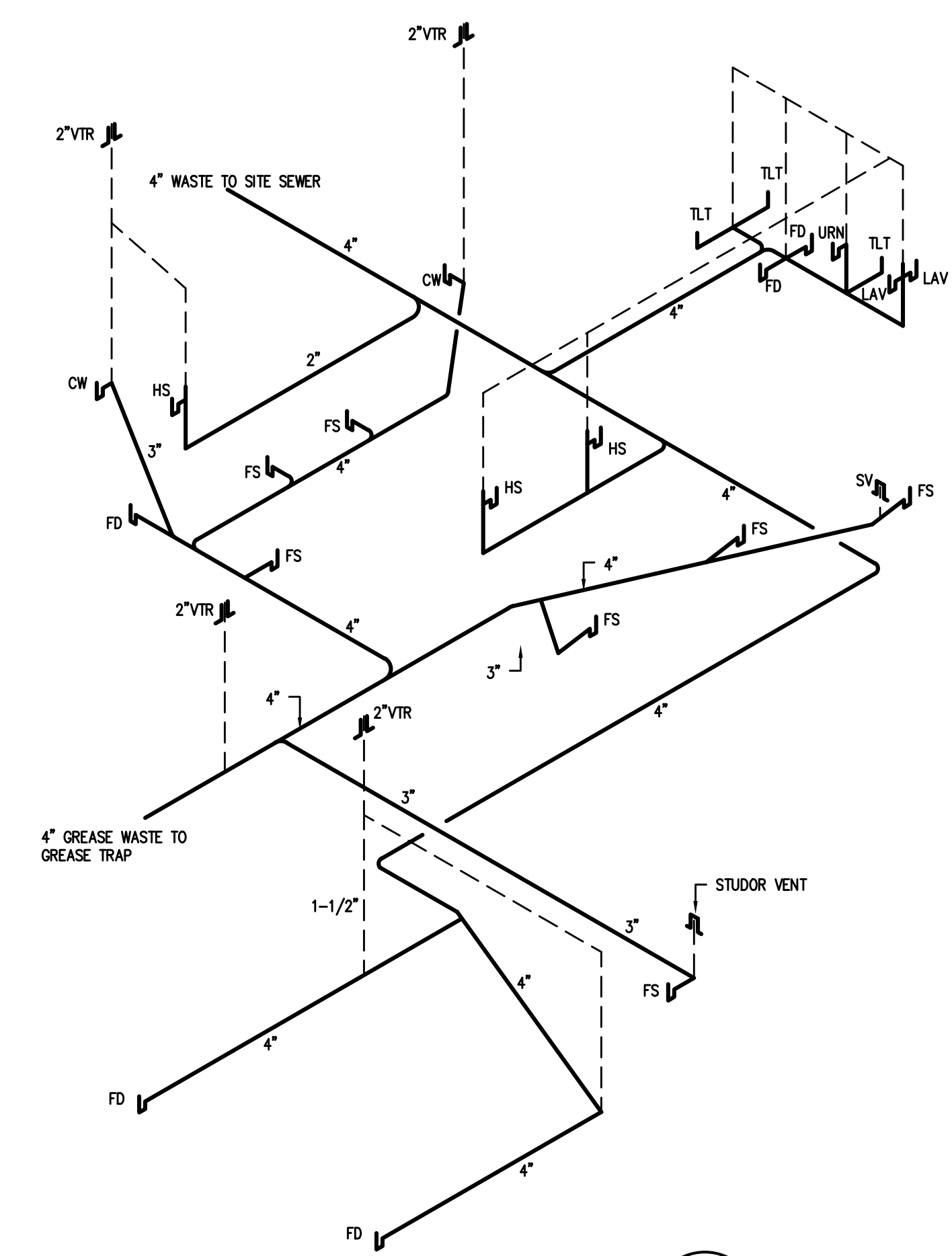
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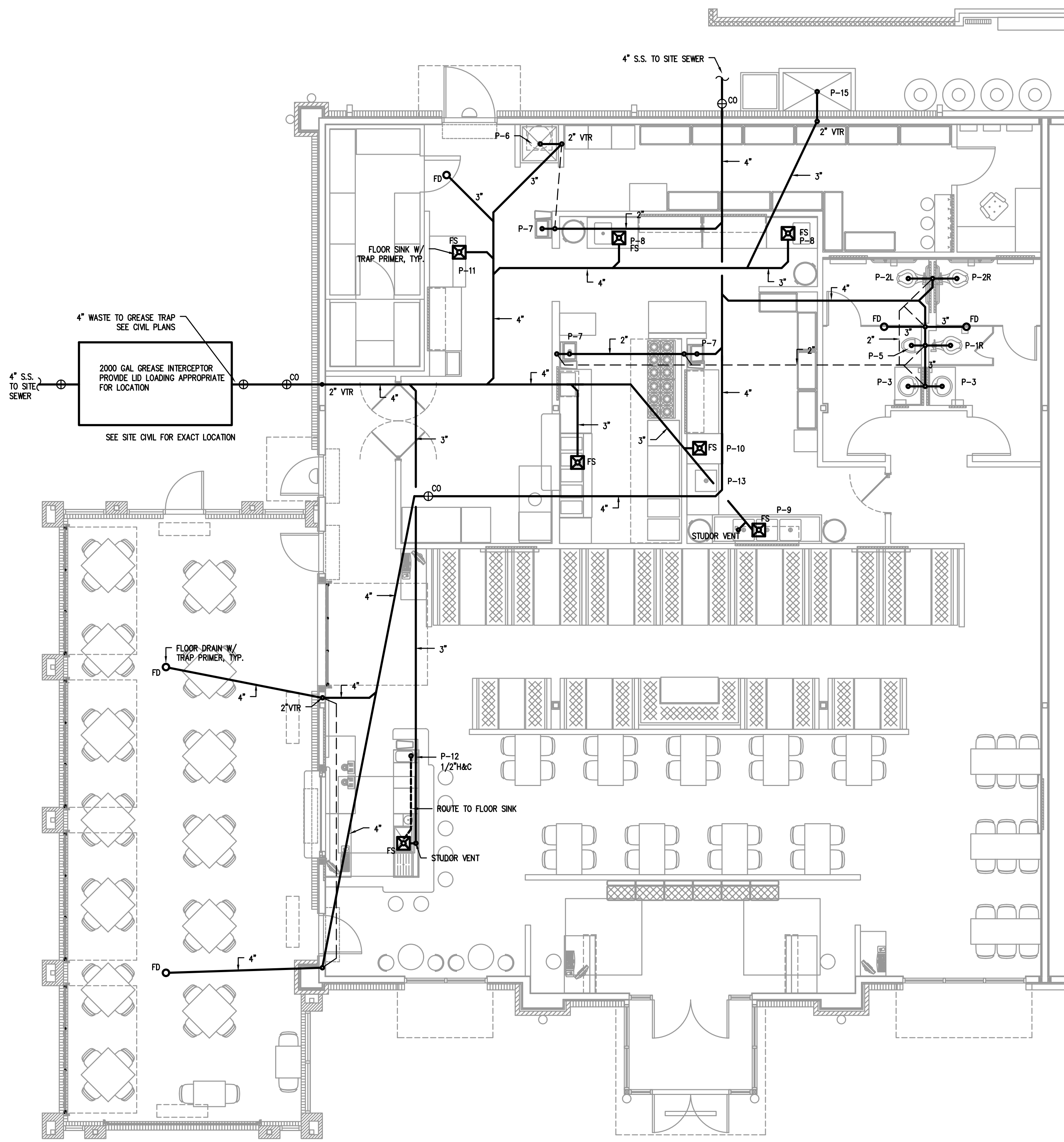
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 N.T.S.



**3 WASTE RISER DETAIL**  
 N.T.S.



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

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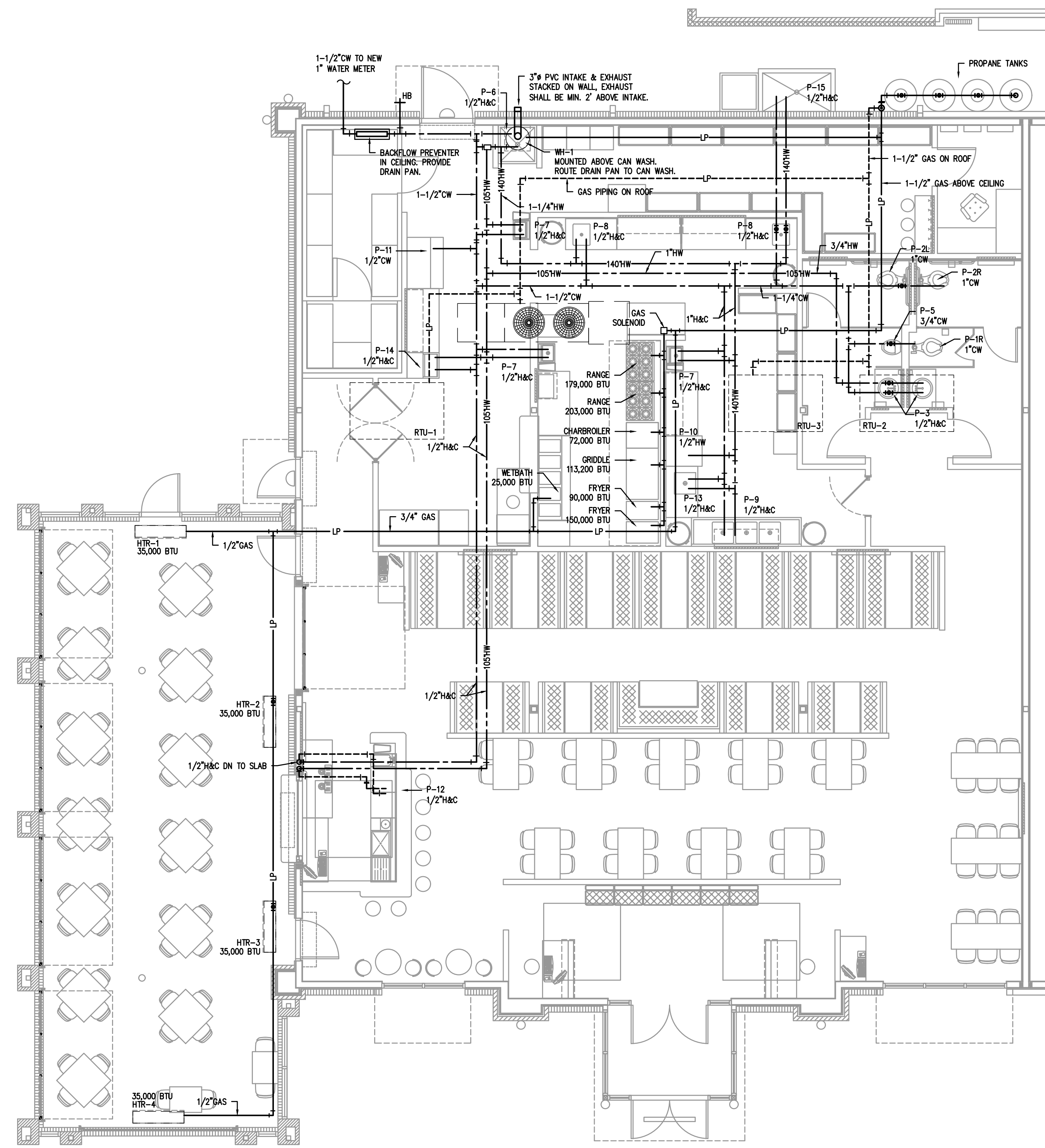
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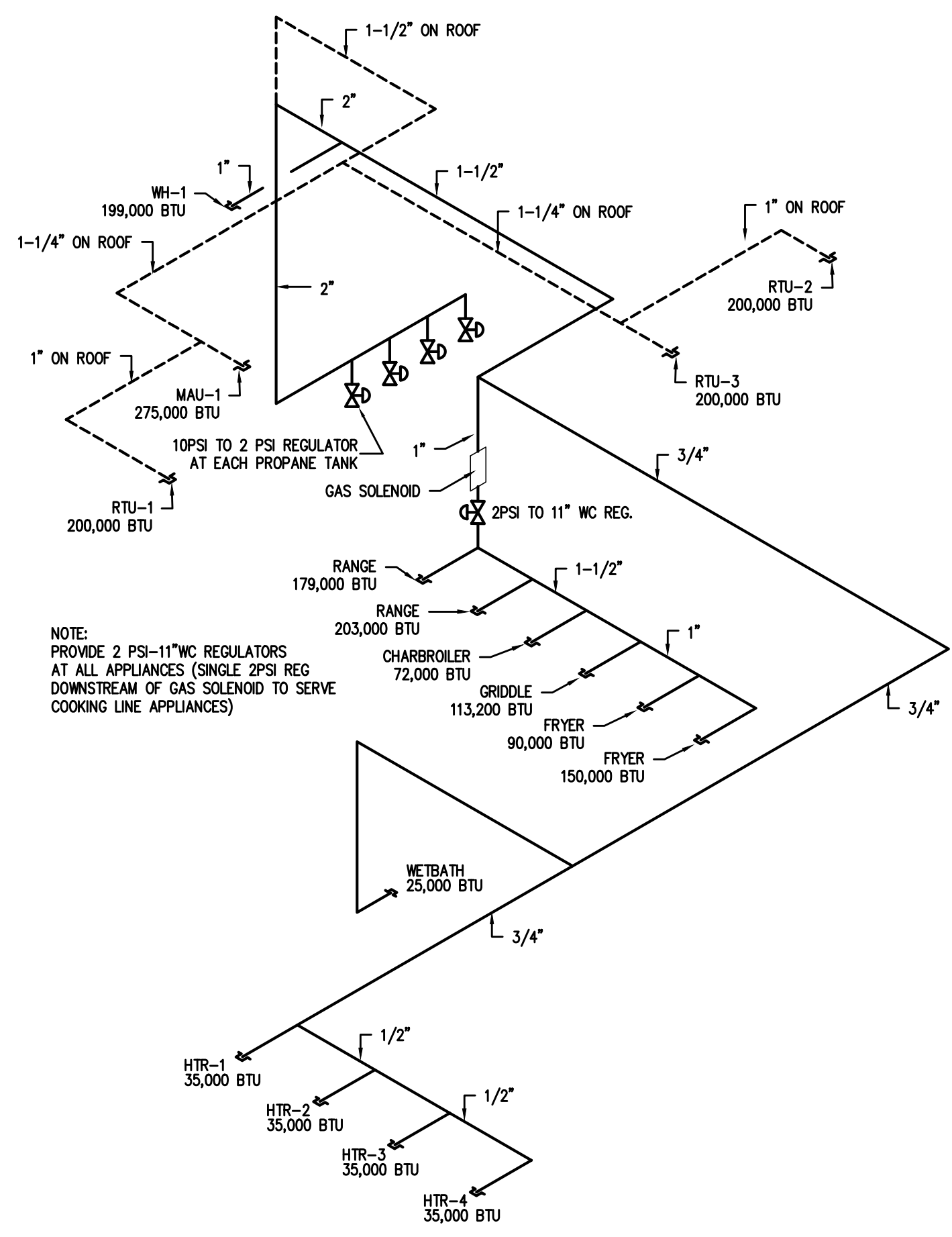
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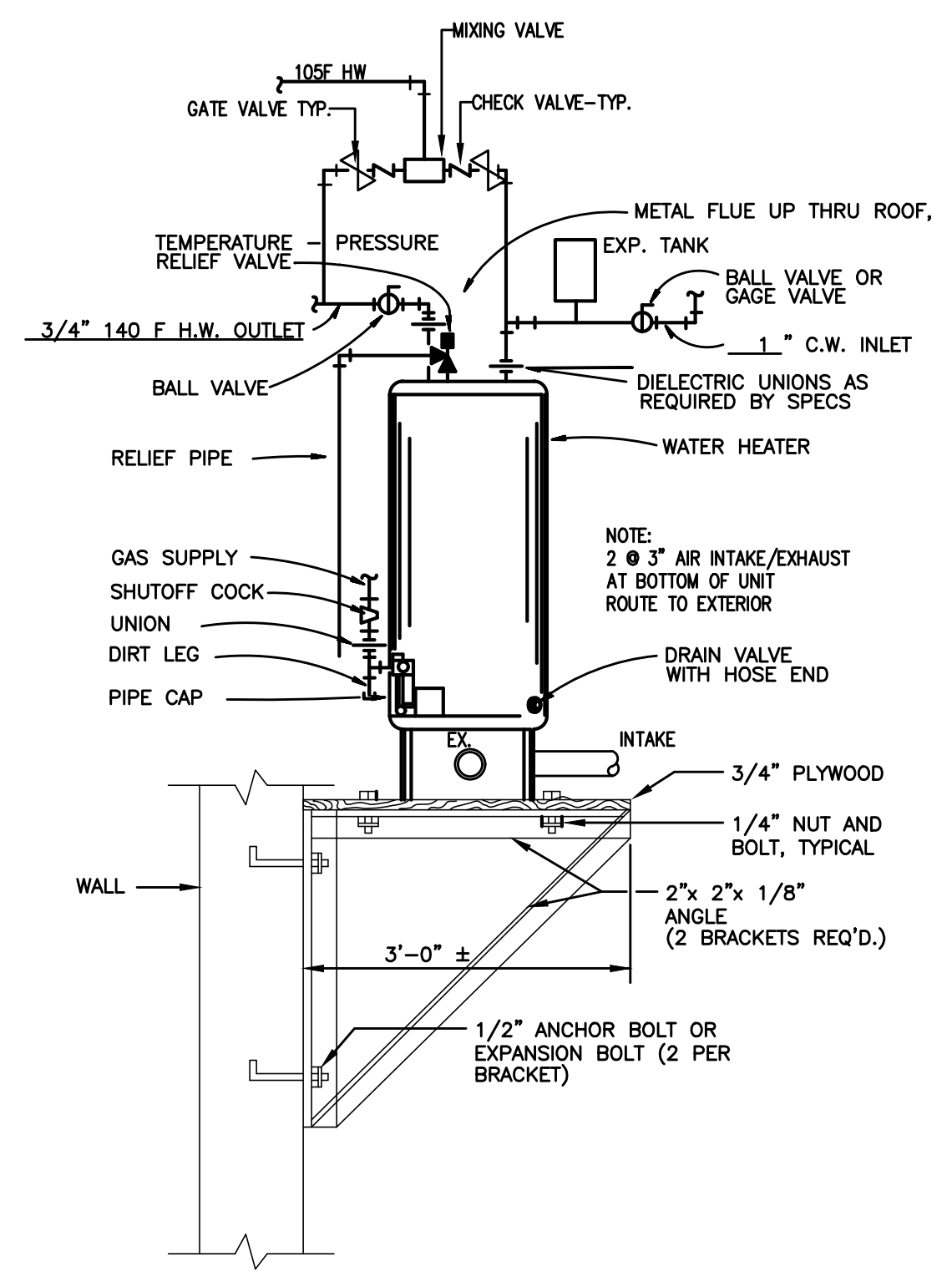
P-2  
SHEET OF



1 PLUMBING PLAN-SUPPLY  
P2 3/16"=1'-0"



2 GAS RISER  
P2 N.T.S.



3 WATER HEATER DETAIL  
P2 N.T.S.

SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
P-1R	AMERICAN STD.	2858.016	WATER CLOSET (FLUSH VALVE), RIGHT LEVER FLOOR-TYPE	CHURCH 380TL TOILET SEAT	1" C.W.	3"	2"	
P-2L	AMERICAN STD.	2854.016	WATER CLOSET (FLUSH VALVE), LEFT LEVER FLOOR TYPE, HANDICAPPED	CHURCH 380TL TOILET SEAT	1" C.W.	3"	2"	
P-2R	AMERICAN STD.	2854.016	WATER CLOSET (FLUSH VALVE), RIGHT LEVER FLOOR TYPE, HANDICAPPED	CHURCH 380TL TOILET SEAT	1" C.W.	3"	2"	
P-3	AMERICAN STD.	0490.011	OVAL LAVATORY, COUNTER TOP	AMERICAN STANDARD, 2385.400 FAUCET	1/2" H.W./C.W.	2"	1-1/2"	
P-4	AMERICAN STD.	0321.028	LAVATORY, WALL-TYPE	AMERICAN STANDARD, 2385.400 FAUCET	1/2" H.W./C.W.	2"	1-1/2"	
P-5	AMERICAN STD.	6541.132	URINAL, WALL-TYPE	SLOAN ROYAL 186-1, FLUSH VALVE	3/4" C.W.	2"	1-1/2"	
P-6	SWAN	MS2424	SERVICE SINK, FLOOR-TYPE	SWAN MS-5811, SWAN MS-2837 MOP SINK FAUCET, MOP HANGER	1/2" H.W./C.W.	3"	1-1/2"	
P-7	HAND SINK PER SUPPLIER							
P-8	PREP SINK PER SUPPLIER							
P-9	3-POT SINK PER SUPPLIER							
P-10	DISHWASHER PER SUPPLIER							
P-11	ICE MAKER PER SUPPLIER							
P-12	BAR SINK PER SUPPLIER							
P-13	DISH TABLE PER SUPPLIER							
P-14	BEVERAGE TABLE PER SUPPLIER							
P-15	CAN WASH PER SUPPLIER							
HB	WOODFORD		HOSE BIB, OUTDOOR FREEZEPROOF	-	1/2" C.W.	-	-	
WH-1	AO SMITH	BTS 199	50 GAL./LP GAS 199,000 BTU WATER HEATER	3/4" T & P RELIEF VALVE	1" H.W./C.W.	-	-	DIRECT VENT 90+ EFF. LP WH

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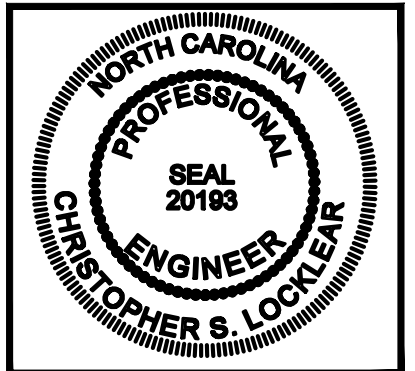


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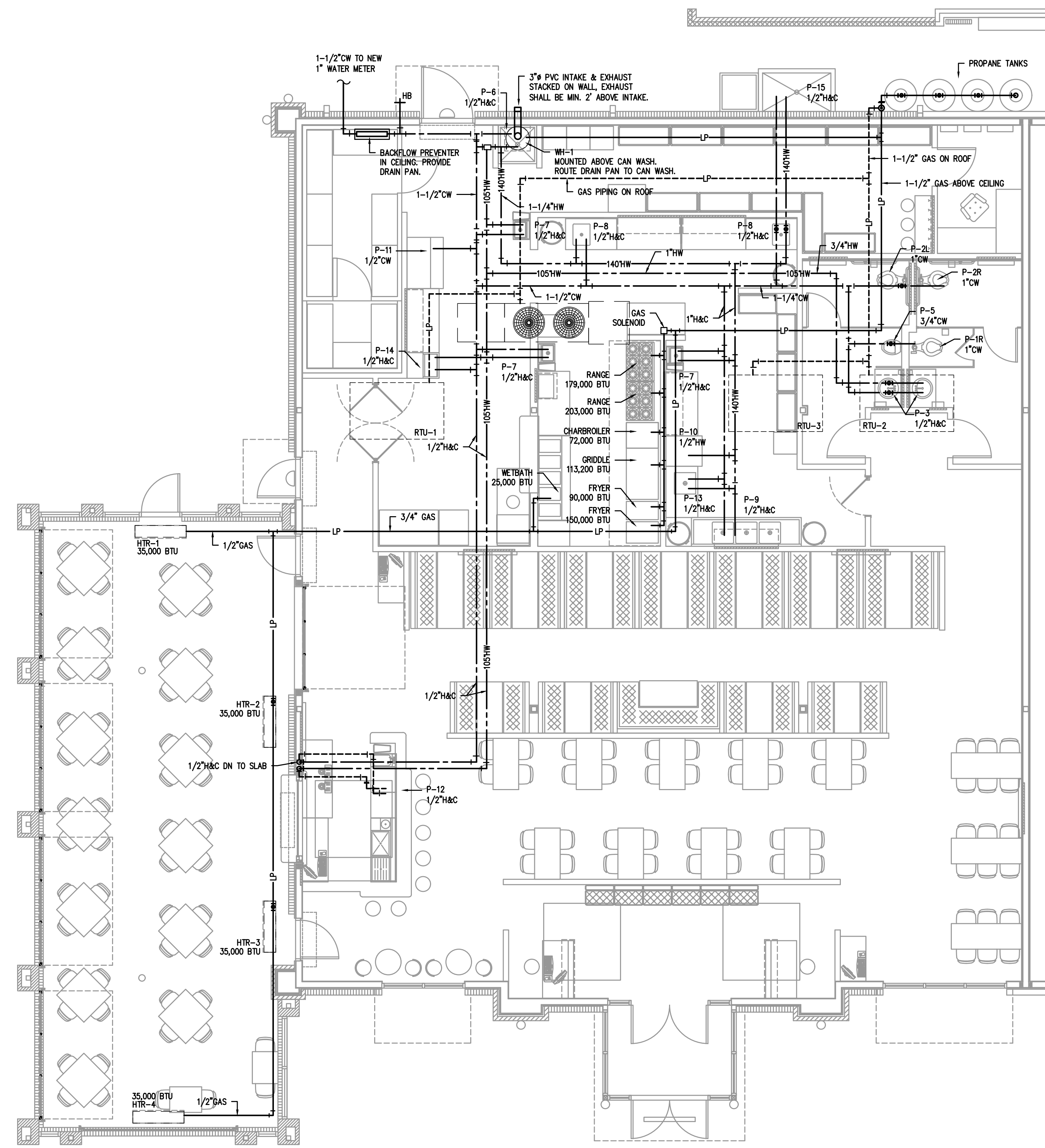
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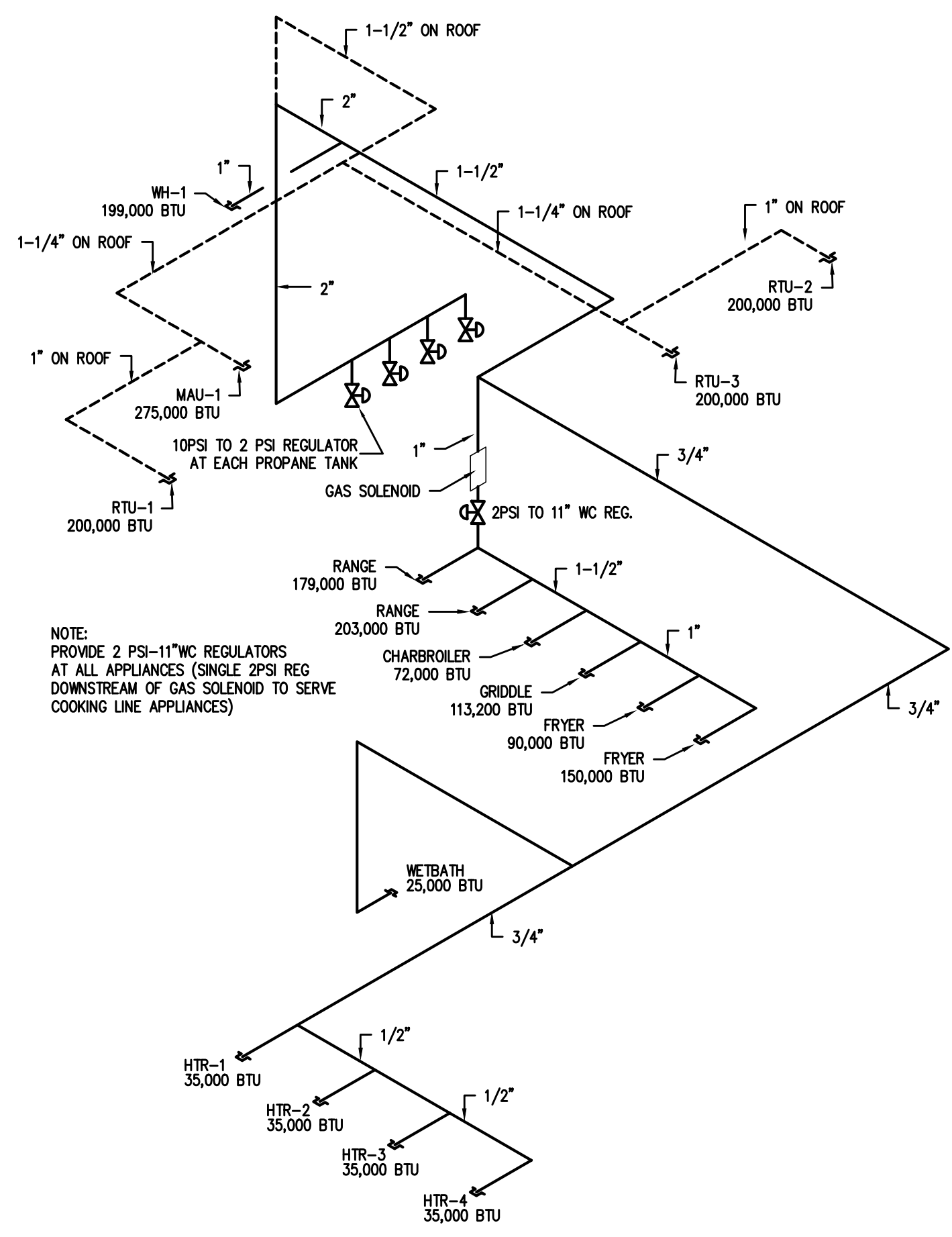
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AND DETAILS

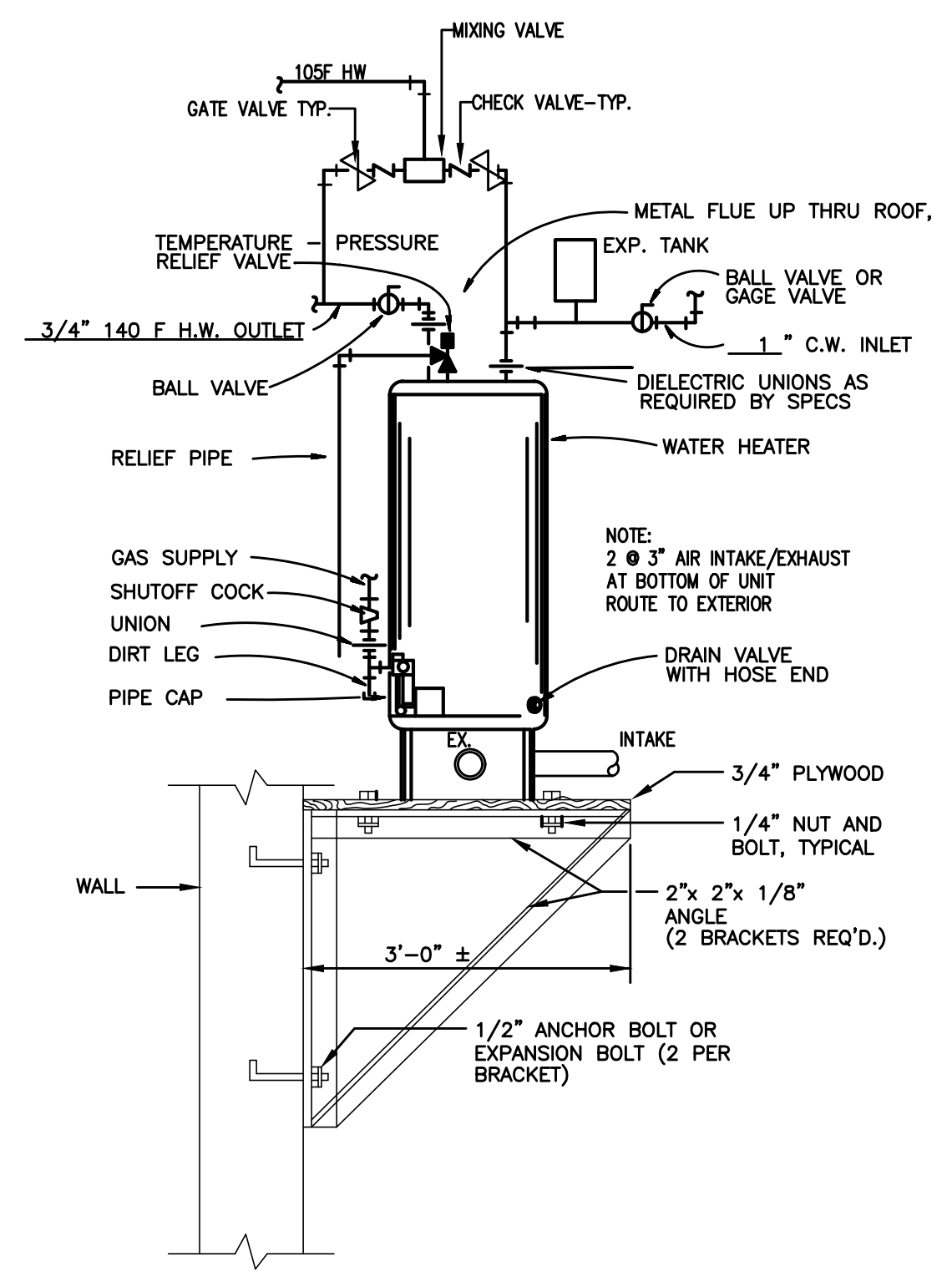
P-2  
SHEET OF



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



2 GAS RISER  
N.T.S.



3 WATER HEATER DETAIL  
N.T.S.

SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
P-1R	AMERICAN STD.	2858.016	WATER CLOSET (FLUSH VALVE), RIGHT LEVER FLOOR-TYPE	CHURCH 380TL TOILET SEAT	1" C.W.	3"	2"	
P-2L	AMERICAN STD.	2854.016	WATER CLOSET (FLUSH VALVE), LEFT LEVER FLOOR TYPE, HANDICAPPED	CHURCH 380TL TOILET SEAT	1" C.W.	3"	2"	
P-2R	AMERICAN STD.	2854.016	WATER CLOSET (FLUSH VALVE), RIGHT LEVER FLOOR TYPE, HANDICAPPED	CHURCH 380TL TOILET SEAT	1" C.W.	3"	2"	
P-3	AMERICAN STD.	0490.011	OVAL LAVATORY, COUNTER TOP	AMERICAN STANDARD, 2385.400 FAUCET	1/2" H.W./C.W.	2"	1-1/2"	
P-4	AMERICAN STD.	0321.028	LAVATORY, WALL-TYPE	AMERICAN STANDARD, 2385.400 FAUCET	1/2" H.W./C.W.	2"	1-1/2"	
P-5	AMERICAN STD.	6541.132	URINAL, WALL-TYPE	SLOAN ROYAL 186-1, FLUSH VALVE	3/4" C.W.	2"	1-1/2"	
P-6	SWAN	MS2424	SERVICE SINK, FLOOR-TYPE	SWAN MS-5811, SWAN MS-2837 MOP SINK FAUCET, MOP HANGER	1/2" H.W./C.W.	3"	1-1/2"	
P-7	HAND SINK PER SUPPLIER							
P-8	PREP SINK PER SUPPLIER							
P-9	3-POT SINK PER SUPPLIER							
P-10	DISHWASHER PER SUPPLIER							
P-11	ICE MAKER PER SUPPLIER							
P-12	BAR SINK PER SUPPLIER							
P-13	DISH TABLE PER SUPPLIER							
P-14	BEVERAGE TABLE PER SUPPLIER							
P-15	CAN WASH PER SUPPLIER							
HB	WOODFORD		HOSE BIB, OUTDOOR FREEZEPROOF	-	1/2" C.W.	-	-	
WH-1	AO SMITH	BTS 199	50 GAL./LP GAS 199,000 BTU WATER HEATER	3/4" T & P RELIEF VALVE	1" H.W./C.W.	-	-	DIRECT VENT 90+ EFF. LP WH

PERMITTING STAMP: