

# **CIRQUE DAIQUIRI BAR AND GRILL**

**DRAWINGS PREPARED FOR:** 

**KECHIA MATADIN** 404.909.9134 MATAD9@AOL.COM PHONE: EMAIL:

## **PROJECT DESCRIPTION:**

**RENOVATION AND ADDITION OF AN EXISTING BUILDING AT 2302 BULL STREET. THE RENOVATION INCLUDES** REMOVAL OF EXISTING INTERIOR WALLS WITH THE ADDITION OF A NEW BAR AND KITCHEN. THE EXTERIOR WILL INCLUDE A FENCED-IN REFUSE AREA AND RESTRIPING OF THE EXISTING PARKING LOT.

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WING INDEX	PERMIT		
SHEET NAME	PE		
COVER SHEET	0		
ROSE DATA	0		
CODE DATA	0		
ADA DIAGRAMS	0		
DEMO FLOOR PLAN	0		
DEMO ELEVATIONS	0		
SITE PLAN	0		
FLOOR PLAN / WALL TYPES	0		
ROOF PLAN	0		
EXTERIOR ELEVATIONS	0		
BUILDING SECTIONS	0		
BUILDING SECTIONS	0		
WALL SECTIONS	0		
RESTROOMS	0		
REFLECTED CEILING PLAN	0		
FINISH PLAN AND DOOR SCHEDULE	0		
EQUIPMENT PLAN	0		
INTERIOR DETAILS	0		
DETAILS	0		
STRUCTURAL NOTES	0		
STRUCTURAL NOTES	0		
EXISTING WALL REMOVAL PLAN	0		
ADDITION STRUCTURAL PLAN	0		
STRUCTURAL DETAILS	0		
STRUCTURAL DETAILS	0		
PLUMBING TITLE SHEET	0		
PLUMBING SPECS AND DETAILS	0		
PLUMBING DEMO PLAN	0		
WASTE AND VENT PLAN	0		
HOT AND COLD WATER PLAN	0		
PLUMBING RISER DIAGRAM	0		
HVAC TITLE SHEET	0		
HVAC SCHEDULES AND SPECS	0		
HVAC GENERAL NOTES	0		
HVAC PLAN	0		
ROOF HVAC PLAN	0		
HVAC DETAILS	0		
ELECTRICAL TITLE SHEET	0		
ELECTRICAL DEMOLITION PLAN	0		
ELECTRICAL SITE PLAN	0		
LIGHTING PLAN	0		
POWER PLAN	0		
ROOF POWER PLAN	0		
ELECTRICAL DETAILS	0		
ELECTRICAL DIAGRAMS	0		
		1	

# **PROJECT TEAM**

#### **ARCHITECT**

ROSE ARCHITECTS 311 MAUPAS AVE SAVANNAH, GA 31401 **KEVIN ROSE** PHONE: 912-484-5967 EMAIL: KEVIN@ROSEARCH.CO

#### GENERAL CONTRACTOR TBD

#### MECHANICAL, ELECTRICAL, PLUMBING

METHOD ENGINEERING GROUP 2 EAST BRYAN STREET, SUITE 1500C SAVANNAH, GA, 31401 PHONE: 912 963 1611 EMAIL: INFO@METHODEG.COM

#### **STRUCTURAL**

SAPP STRUCTURAL 226 KENSINGTON DRIVE SAVANNAH, GA 31405 PHONE: 912 704 2170 EMAIL: BSAPP@SAPPSTRUCTURAL.COM

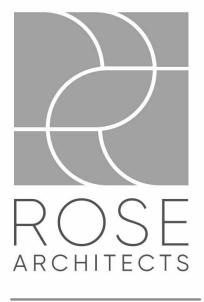
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**COVER SHEET** 2323





# **BUILDING CODE SUMMARY**

Kauda Daaa				
042 200 4622	Kevin@RoseArch.co			
-		e O State		
City	Savannah () Count	y 🔾 State		
T SUMMARY				
The space will serve as a	a restaurant and bar. Imp	provements and additions		
-	-			
lot. Parking is not requir	ed for the proposed use	•		
CONSULIAINIS				
FIRM	CONTACT / LICENSE #	EMAIL / PHONE		
Rose Architects	Kevin Rose	kevin@rosearch.co		
Nose Areniteets		912 308 4622		
n/a		n/a		
174	1)/ d	<u>11/ a</u>		
Method Engineering	Chris Schaffer	cshaffer@MethodEG.com		
00_		912 963 1611		
Method Engineering		cshaffer@MethodEG.com		
		912 963 1611		
Method Engineering		amckeever@MethodEG.com		
00	GA# 40556	912 963 1611		
Method Engineering	Andrew Mckeever	amckeever@MethodEG.com		
00	GA# 40556	912 963 1611		
Sapp Structural	Brian Sapp	bsapp@sappstructural.com		
		912 963 1611		
n/a		n/a		
		n/a		
n/a				
	2302 Bull Street Street, 20065 39001 Restaurant and Daiquiri Kevin Rose 912.308.4622 Ema City/C City/C City/C City/C Consultants FIRM Rose Architects n/a Method Engineering Method Engineering Method Engineering Method Engineering Method Engineering	Restaurant and Daiquiri Bar         Kevin Rose         912.308.4622       Email:         Kevin@RoseArch.co         City/County       Privat         City/County       Privat         City       Savannah         City       Savannah         City       Savannah         City       Savannah         Count       City         Savannah       Count         Count       Count         Count       Savannah         Count       Count         Conclude a new fenced in refuse area and restr         Iot. Parking is not required for the proposed use         CONSULTANTS         FIRM       CONTACT / LICENSE #         Rose Architects       Kevin Rose         GA# 012436       n/a         n/a       n/a         Method Engineering       Chris Schaffer         GA - PEQ 41545       Method Engineering         Method Engineering       Andrew Mckeever         GA# 40556       Method Engineering         Andrew Mckeever       GA# 40556         Sapp Structural       Brian Sapp         GA - SE000802       n/a         n/a       n/a		

APPLICABLE CODES Building Code: 2018 International Building Code (IBC) 2020 National Electrical Code 20015 International Energy Conservation Code 2018 Life Saftey Code (LSC) - NFPA 101 2018 International Mechanical Code 2012 International Fire Code 2018 International Plumbing Code 2010 ADA Standards for Accessible Design New Building: O New Building Shell Building BASIC BUILDING  $\bigcirc$  ıv 🔾 v-а 🔾 II-A 🔾 III-A 🔘 ІІІ-В 🔘 ІІ-В 🔘 v-в ● No ○ Yes ○ Partial ○ NFPA 13-07 ○ NFPA 13R-07 ○ NFPA 13D-07

No Yes Class: I II O II O Wet O Dry

#### FLOOR EXISTING (SQ. FT.) NEW (SQ. FT.) LEVEL 01 2440 SF 188 SF (7)ALLOWABLE AREA/OCCUPANCY CLASSIFICATION

Occupancy:					
Assembly	(303)	○ A-1	A-2	О А-З	○ A-4
Business	(304)	Ов			
Educational	(305)	() е			
Factory	(306)	🔘 F-1 Moderate	🔘 F-2 Low		
Hazardous	(307)	🔵 H-1 Detonate	◯ H-2 Deflagrate	🔵 H-3 Combust	🔵 H-4 Heal
Institutional	(308)	○ I-1	○ I-2	○ I-3	○ I-4
I-3 Con	dition	ΟL	○ 2	Оз	<b>4</b>
Mercantile	(309)	Ом			
Residential	(310)	○ R-1	○ R-2	○ R-3	🔾 R-4
Storage	(311)	🔘 S-1 Moderate	S-2 Low		
		O Parking Garage	🔘 Open	Enclosed	🔵 Repair G
Util. & Misc.	. (312)	() U			

#### 8 EXIT REQUIREMENTS

Gross Building Area:

FLOOR, ROOM OR SPACE DESIGNATION		M NUMBER OF XITS	:	TR	AVEL D	ISTANCE		
	REQUIRED	SHOWN O PLANS	N	ALLOWA TRAVE DISTAN	EL	ACTUAL TH DISTAN SHOWN PLAN	ANCE VN ON	
ASSEMBLY (A-2)	2	4		200		64'-9'		
CCUPANT LOAD AND EXIT WI	DTH (NFPA 10	1 TABLE 7.3.1.2	2)					
USE GROUP OR SPACE	(a)	(b)				(c)		
DESCRIPTION	AREA sq. ft.	AREA per occupant	OC	CULATE CUPANT LOAD (a/b)		SS WIDTH CCUPANT	REQU (SEC	
				(-, -,	Stair	Level	Sta	i
KITCHEN	548 SF	100 GROSS	6	PEOPLE	N/A	0.2"	N/A	1
STORAGE	274 SF	300 GROSS	1	PERSON	N/A	0.2"	N/A	1
BUSINESS	80 SF	150 GROSS	1	PERSON	N/A	0.2"	N/A	1
EATING (less concentrated)	455 SF	15 SF NET	31	PEOPLE	N/A	0.2"	N/A	1
SEATING (concentrated)	137 SF	7 NET	20	PEOPLE	N/A	0.2"	N/A	1
TOTAL REQ'D WIDTH							N/A	4
			59	PEOPLE				
EXTERIOR DINING	646 SF	15 SF NET	43	PEOPLE			=	
			06					

#### 96 PEOPLE

See Table 7.3.1.2 to determine whether net or gross area is applicable. See definition "Area, Gross" and "Area Net"
 Minimum stairway width (Section 7.2.2.2); min. door width (Section 7.2.1.2)
 Minimum width of exit passageway (Section 7.3.4)
 Assembly occupancies (Chapter 12)

#### (9) PLUMBING FIXTURE REQUIREMENTS

If using fixtures one floor above or one floor below, show calculations to justify the count (TABLE 2902.1)

	OCCUPANCY USE GROUP	WATERCLOSETS		URINALS	LAVA	TORIES
AND/OR SPACE DESIGNATION	MALE	FEMALE		MALE	FEMAL	
	ASSEMBLY A-2	1 PER 75	1 PER 75	0	1 PER	200

#### (10) PARKING REQUIREMENTS

Lot or Parking Area	Total # of F	Parking Spaces	# of Accessible Spaces Pro			
	Required Provided		Regular w/ 5'	Van Spaces		
	Required	Access Aisle	132" Access Aisle	8		
	1 PER 1000	3	1	N/A		

#### SEC. 8-3224. PARKING

NONRESIDENTIAL USE 2,500 SQUARE FEET OR MORE. MINIMUM ONE SPACE PER 1,000 SQUARE FEET OF GROSS FLOOR AREA. MAXIMUM ONE SPACE PER 500 SQUARE FEET OF GROSS FLOOR AREA IF LOCATED ON-SITE. IV. APARTMENT USED BY COLLEGE OR DORMITORY USE. MINIMUM ONE SPACE

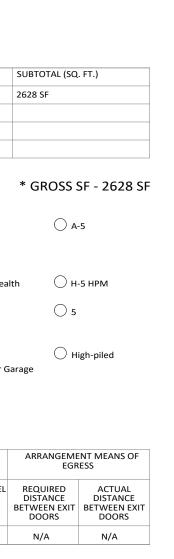
(5)

(6)

Construct

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🔾 І-В

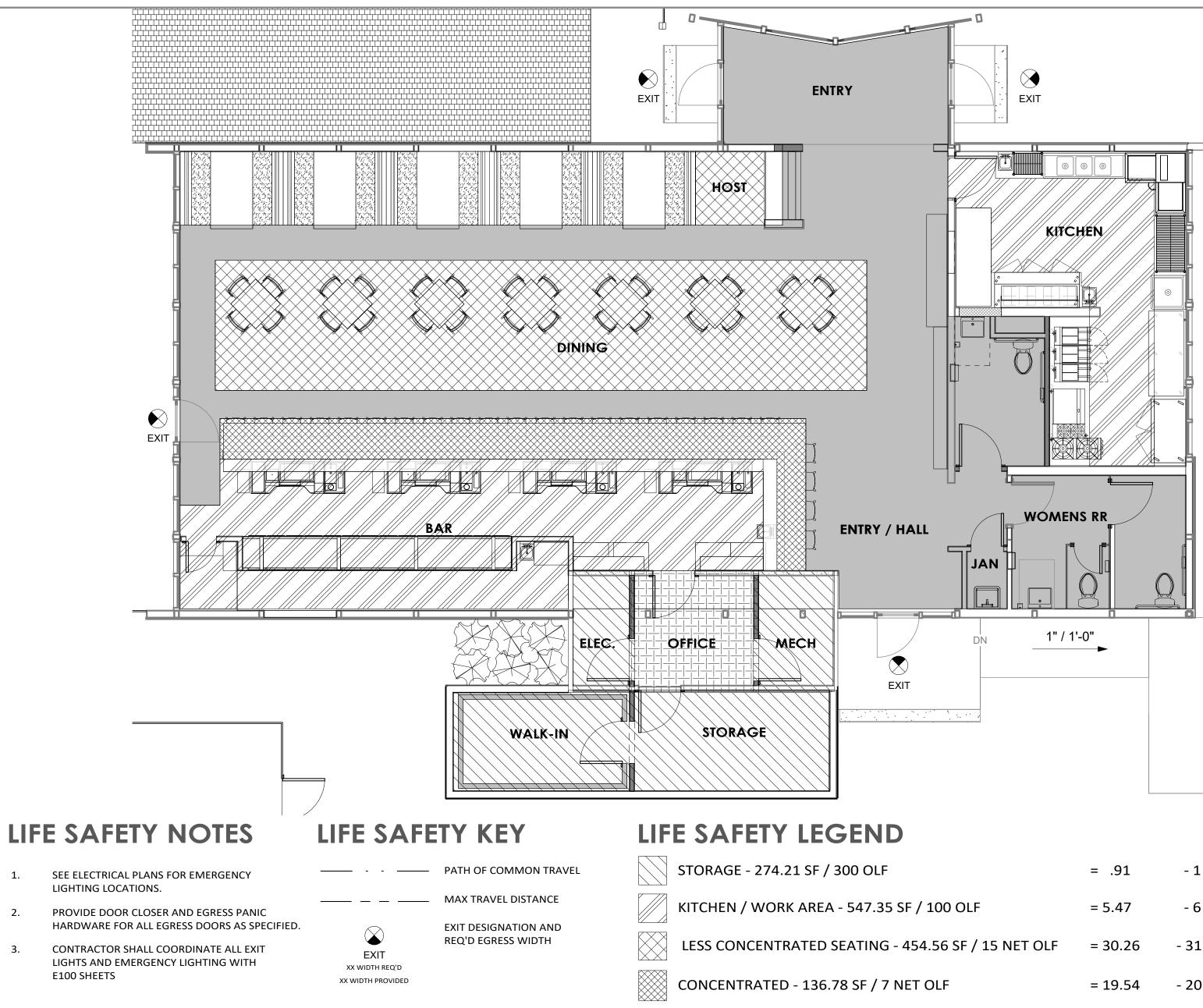


EXIT WIDTH (IN)							
OI	RED WIDTH ACTUAL WIDTH DN 1005.1) SHOWN ON PLANS /b) x c						
	Level	Stair	Level				
	1.2"	N/A	144"				
	.2"	N/A	144"				
	.2"	N/A	144"				
6.2"		N/A	144"				
	4.0"	N/A	144"				
	11.8" N/A 144"						
11.8" / 4 EXITS 2.95" REQ'D @ EACH EXIT							

○ NO CHANGE

IES EMALE	SHOWERS / TUBS	DRINKING FOUNTAINS			
N/A N/A					
*1 SERVICE SINK SHALL BE PROVIDED					

ded	
With	Total # Accessible Provided
Access Aisle	
N/A	1

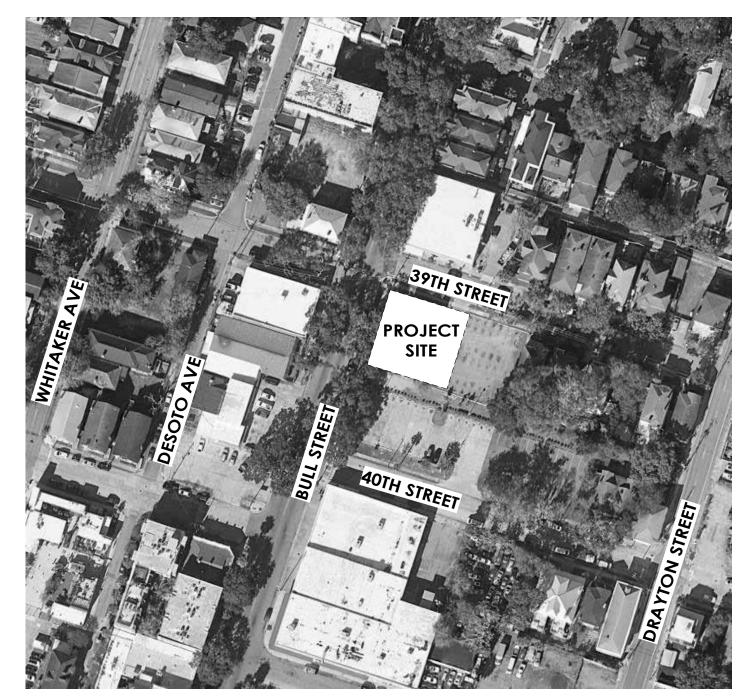


# VICINITY MAP

1.

2.

3.



অনেগ্রহায়		<u>59 PEOPLE</u>
CIRCULATION / BATHROOMS - 897.24 SF - NA	N/A	
BUSINESS - 79.28 SF / 150 OLF	= 0.53	- 1 PERSON
CONCENTRATED - 136.78 SF / 7 NET OLF	= 19.54	- 20 PEOPLE
LESS CONCENTRATED SEATING - 454.56 SF / 15 NET OLF	= 30.26	- 31 PEOPLE
KITCHEN / WORK AREA - 547.35 SF / 100 OLF	= 5.47	- 6 PEOPLE
STORAGE - 274.21 SF / 300 OLF	= .91	- 1 PERSON

# PORTABLE FIRE EXTINGUISHER REQUIREMENTS

UNDER ORDINARY HAZARD.

COMPLETION.



BANQUETTES = 750" OF SEATING / 18" PER PERSON = 41.66 **OCCUPUANT LOAD** (59+42=101)

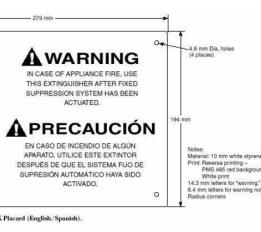
1. ALL PORTABLE FIRE EXTINGUISHERS SHALL COMPLY WITH THE LOCAL FIRE DEPARTMENT AND THE NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS.

2. FIRE EXTINGUISHER SIZE AND PLACEMENT SHALL COMPLY WITH TABLE 5.2.1. OF NFPA 10

3. PROVIDE CLASS A MULTIPURPOSE DRY-CHEMICAL TYPE IN STEEL CONTAINER: UL-RATED 4-A:60-B:C, 10-LB NOMINAL CAPACITY, WITH MONOAMMONIUM PHOSPHATE-BASED DRY CHEMICAL IN ENAMELED-STEEL CONTAINER.

4. FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE

6. ALL FIRE EXTINGUISHERS SHALL BE TESTED AND OPERATIONAL PRIOR TO PROJECT







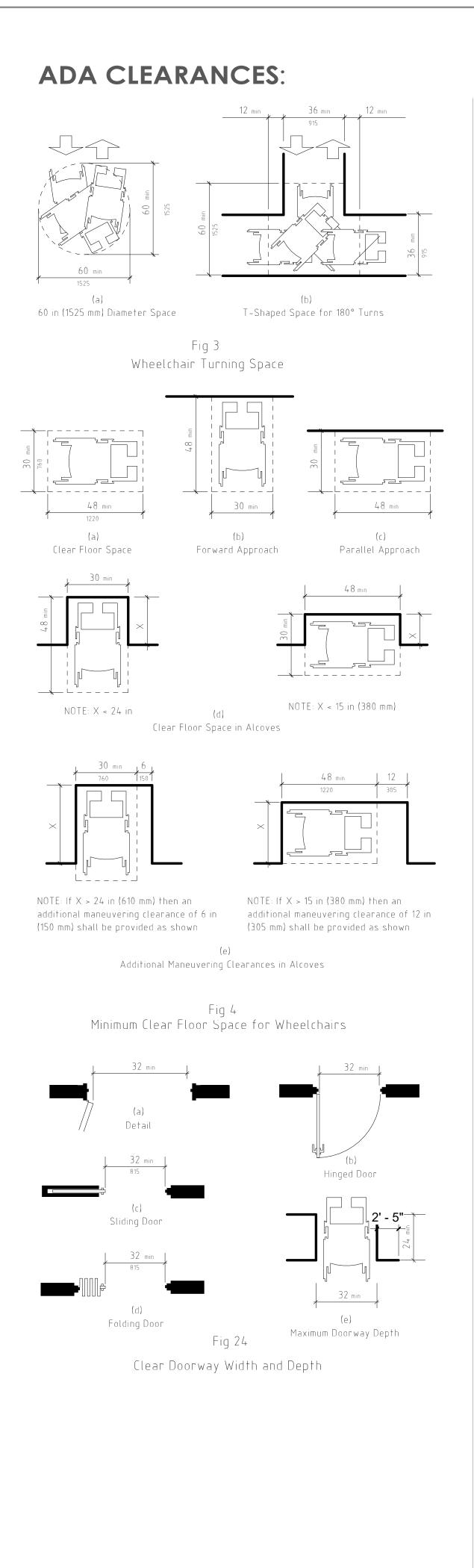
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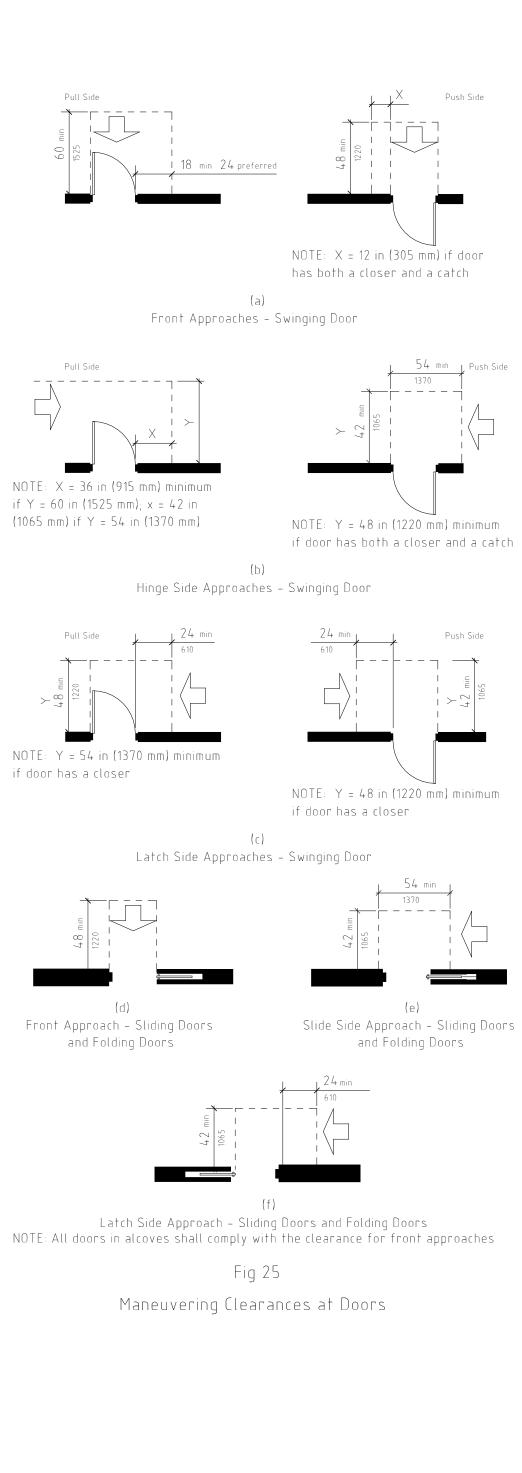
42 PEOPLE

**101 PEOPLE** 

CODE DATA 2323 G1.0







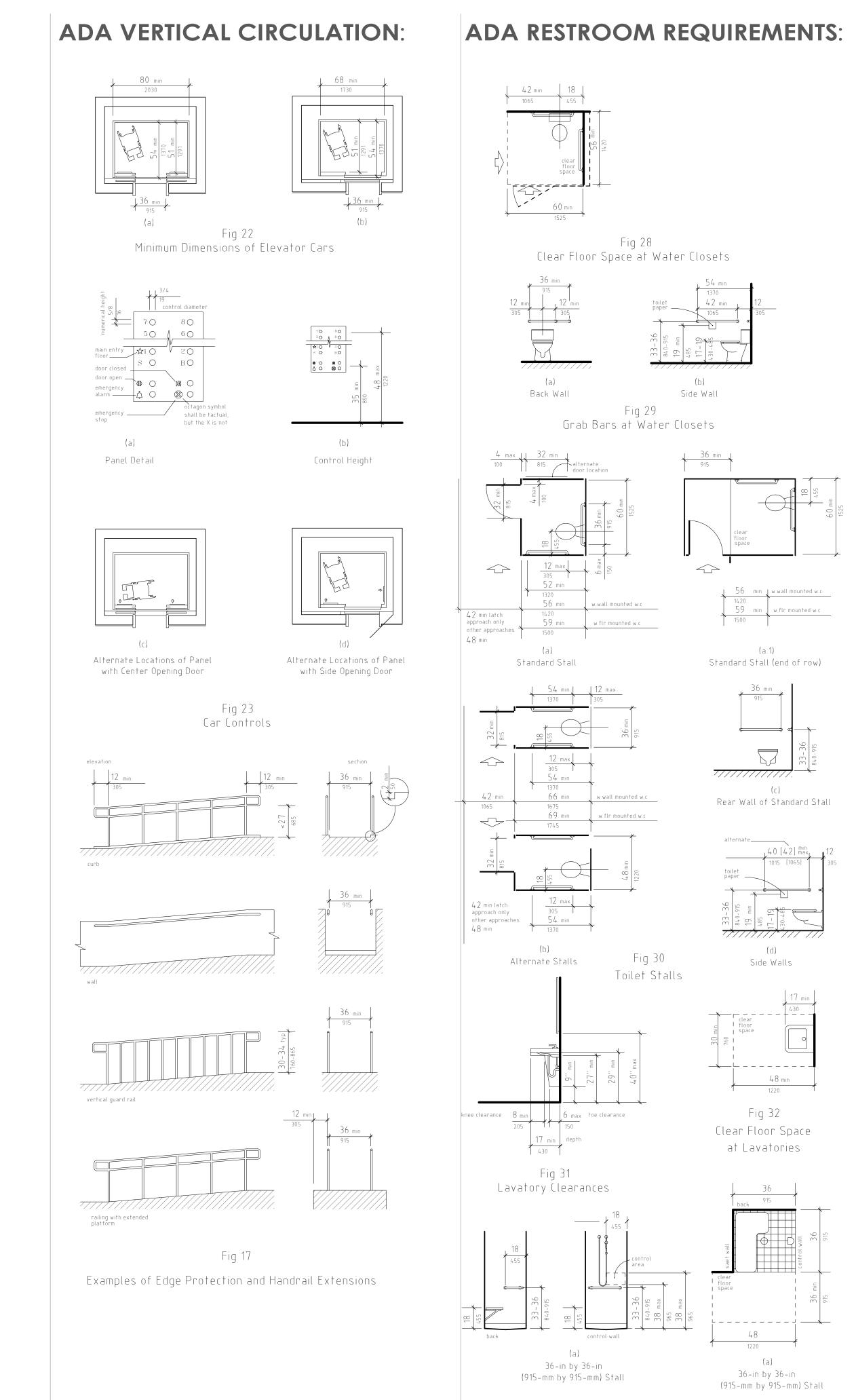


Fig 35

Fig 37

Grab Bars at

Shower Stalls

# **GENERAL ADA NOTES:**

#### <u>GENERAL ADA NOTES:</u>

- 1. ALL PROPOSED WORK TO COMPLY WITH APPLICABLE REQUIREMENTS OF ADA FOR HANDICAPPED ACCESSIBILITY. 2.
- CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AS PER RS 4-6, 4.25.4.
- ACCESSIBLE ROUTES TO BE PROVIDED BETWEEN FACILITIES ON THE 3. GROUND FLOOR, PROVIDING A MINIMUM OF 36 INCHES OF WIDTH ALONG THE ACCESSIBLE ROUTE AS PER RS 4-6, 4.3.1 AND A MINIMUM OF 32 INCHES OF WIDTH AT DOORWAYS, AS PER 4-6, 4.13.5.

4.2 SPACE ALLOWANCES AND REACH RANGES

- a. A CLEAR FLOOR SPACE OF 30"X48" SHALL BE PROVIDED FOR FORWARD AND PARALLEL APPROACHES SEE FIG. 4.
- 60" DIAMETER SPACE SHALL BE PROVIDED FOR WHEELCHAIR TURNING SEE b. FIG. 3.

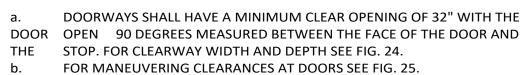
#### <u>4.8 RAMPS</u>

- THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12 а. THE MAXIMUM RISE OF ANY SLOPE SHALL BE 30"
- THE CLEAR WIDTH (BETWEEN HANDRAILS) SHALL BE 36" LANDINGS LOCATED AT THE BOTTOM AND TOP OF EACH RUN SHALL BE AT с. LEAST AS WIDE AS THE WIDEST PART OF THE RAMP AND THE LENGTH
- SHALL BE 60" CLEAR. DIRECTION CHANGES AT LANDINGS SHALL HAVE A MINIMUM SIZE OF d. 60"X60".
- IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY WITH 4.13.6.

#### <u>4.8.5. HANDRAILS</u>

- PROVIDE HANDRAILS ON BOTH SIDES OF RAMP SEGMENTS.
- THE CLEAR SPACE BETWEEN HANDRAIL AND THE WALL SHALL BE 1-1/2". THE GRIPPING SURFACE SHALL BE 1-1/4" OR 1-1/2" DIAMETER.
- THE TOP OF THE GRIPPING SURFACE SHALL BE MOUNTED BETWEEN 30" AND 34" ABOVE THE RAMP SURFACE.

#### <u>4.13 DOORS</u>



4.15 DRINKING FOUNTAINS

a. THE SPOUT HEIGHT SHALL BE NO HIGHER THAN 36" ABOVE THE FLOOR.

#### 4.16 WATER CLOSETS

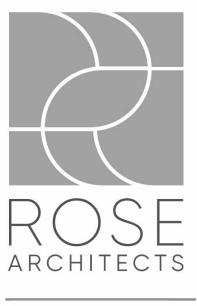
a. THE HEIGHT OF WATER CLOSETS SHALL BE 17" TO 19" ABOVE THE FLOOR TO THE TOP OF THE TOILET SEAT. FOR HEIGHTS AND CONFIGURATIONS OF GRAB BARS SEE FIG. 29 AND FOR STALLS SEE FIG. 30.

4.19 LAVATORIES AND SINKS

- LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES TO COMPLY WITH FIG 31.
- SINKS SHALL BE MOUNTED WITH THE COUNTER OR RIM NO HIGHER THAN b. FROM THE FLOOR. 34" A CLEAR FLOOR SPACE OF 30"X48" SHALL BE PROVIDED IN FRONT OF A с.
- LAVATORY OR SINK TO ALLOW A FORWARD APPROACH AND TO COMPLY WITH FIG. 32. HOT WATER AND DRAIN PIPES UNDER LAVATORIES OR SINKS SHALL BE d. INSULATED.

#### 4.21 SHOWER STALLS

- SHOWER STALL SIZE AND CLEAR FLOOR SPACE IN FRONT SHALL COMPLY WITH FIG. 35.
- A SHOWER SEAT SHALL BE PROVIDED IN A STALL 36"X36". b.
- GRAB BARS SHALL BE PROVIDED AND COMPLY WITH FIG 37.





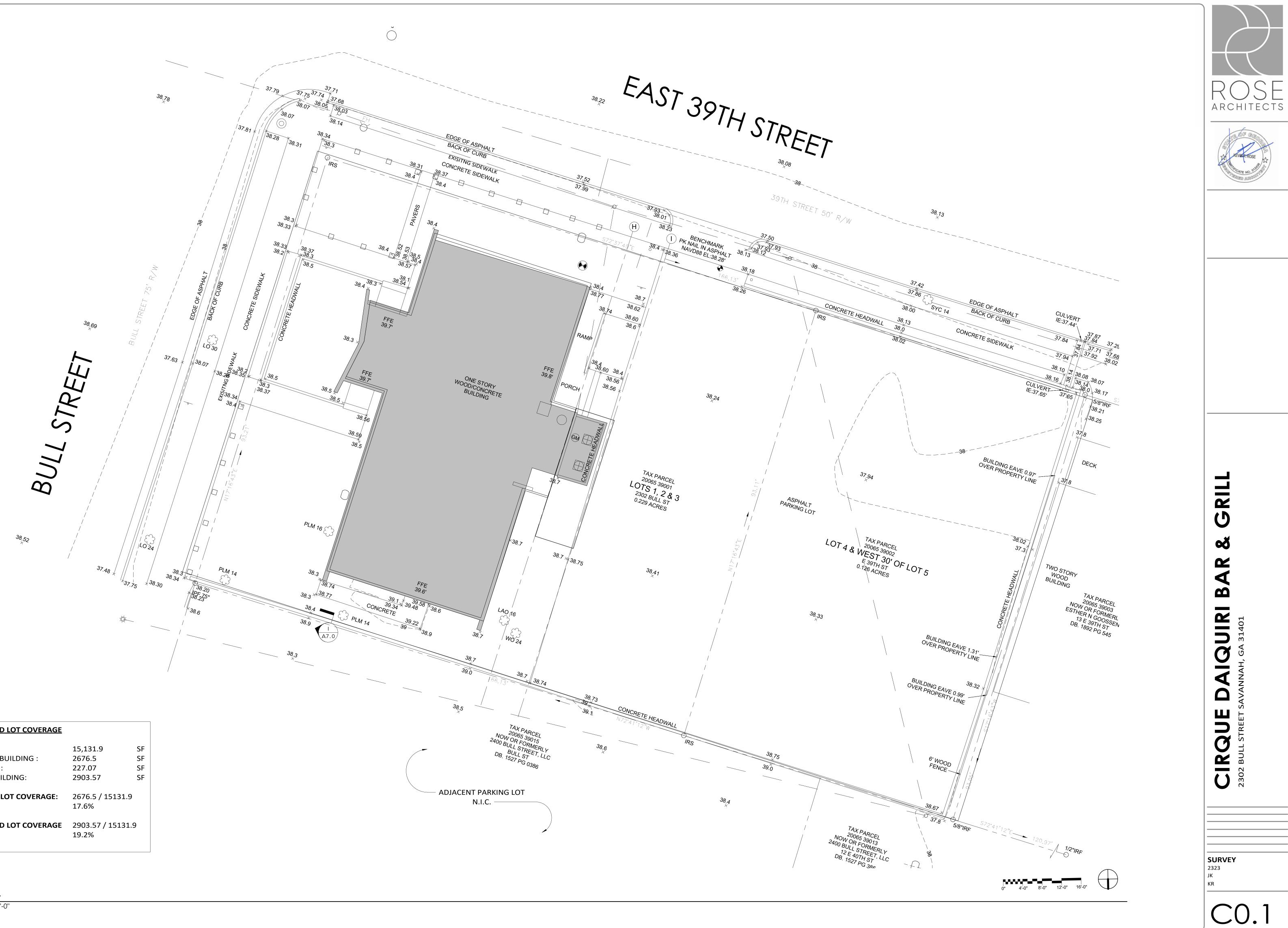
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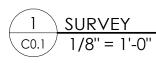


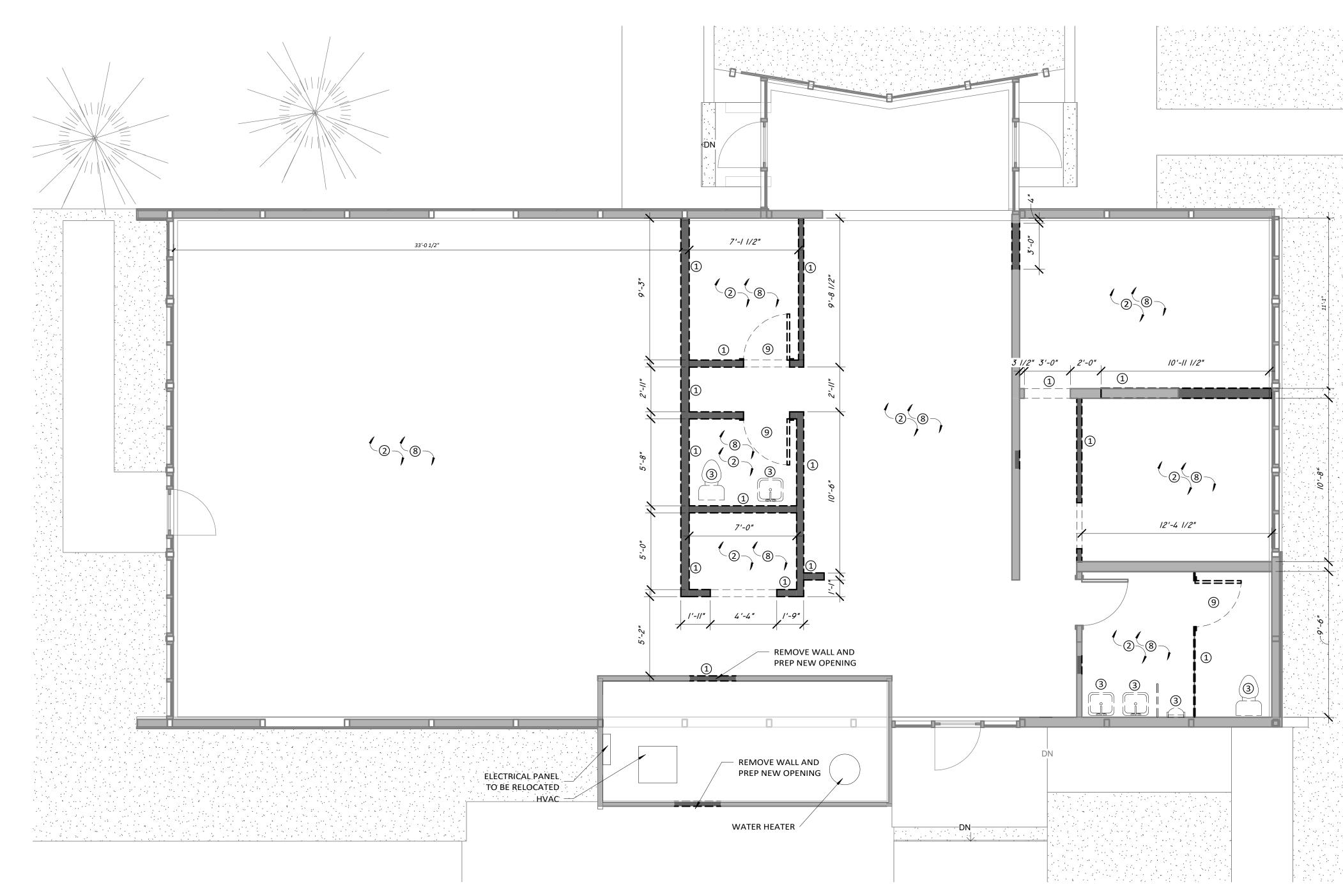
Shower Size and Clearances

ONSTRUCTION  $\bigcirc$ FOR

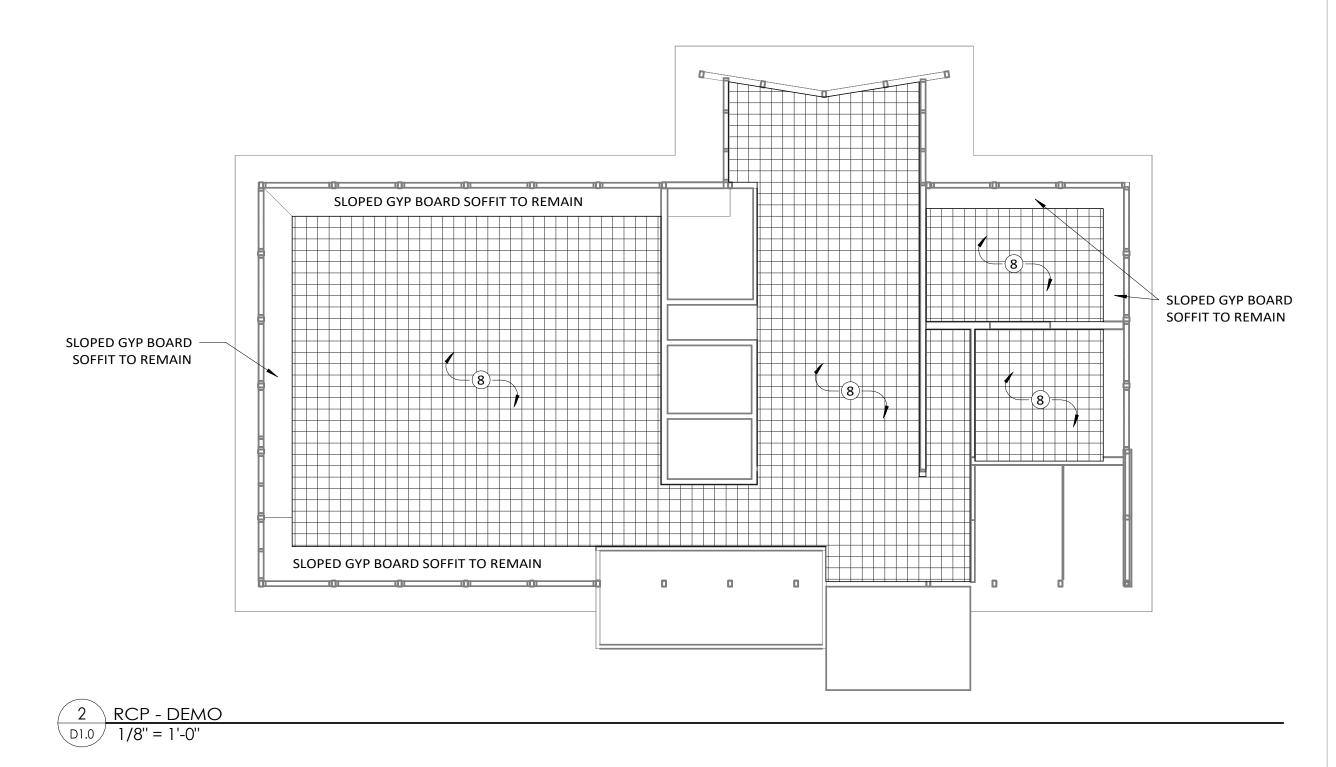


PROPOSED LOT COVERAGE		
LOT SIZE: EXISTING BUILDING : ADDITION: TOTAL BUILDING:	15,131.9 2676.5 227.07 2903.57	SF SF SF SF
EXISTING LOT COVERAGE:	2676.5 / 15131.9 17.6%	
PROPOSED LOT COVERAGE	2903.57 / 15131. 19.2%	9





1 FLOOR PLAN - DEMO D1.0 1/4" = 1'-0"



# **GENERAL DEMO NOTES**

1 ALL EXISTING CONDITIONS SHOWN ARE FOR REFERENCE ONLY AND ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.

2 REMOVED MATERIALS, UNLESS NOTED OTHERWISE, BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS. VERIFY WITH OWNER

3 THE CONTRACTOR SHALL USE QUALIFIED, EXPERIENCED PERSONNEL FOR REMOVAL AND DEMOLITION OPERATIONS. REMOVAL AND DEMOLITION OPERATIONS SHALL BE PERFORMED IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS, DAMAGE TO PROPERTY, AND THE SPREADING OF DUST AMD FLYING PARTICLES.

4 THE EXACT EXTENT OF DEMOLITION TO BE DONE SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECCESARY BY COMPARING THE DRAWINGS WITH THE EXIST CONDITIONS.

5 THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHODS OF DEMOLITION AND THE SAFETY OF THE EXIST STRUCTURE.

6 NO PORTIONS OF THE STRUCTURE SHALL BE PERMITTED TO FALL NOR SHALL ANY DEBRIS BE DROPPED EXCEPT BY METHODS WHICH WILL INSURE LIFE SAFETY AND OTHER INSURANCE.

7 DO NOT REMOVE MORE OF THE EXISTING STRUCTURE THAN NECESSARY. DO NOT DAMAGE, MAR, OR DEFACE THE REMAINING STRUCTURE OR MATERIALS TO BE REUSED.

8 THE CONTRACTOR SHALL PROVIDE SHORING IN ALL LOCATIONS WHERE EXIST CONSTRUCTION TO REMAIN WILL BE AFFECTED BY DEMOLITION.

9 ALL EXISTING ITEMS TO REMAIN SHALL BE PROTECTED DURING DEMOLITION AND NEW CONSTRUCTION.

10 IN AREAS OF WORK, AT EXISTING WALLS TO REMAIN WHERE OUTLETS, ETC. ARE REMOVED, PATCH AND REPAIR WALL TO MATCH EXISTING WALL TEXTURE. PREPARE WALL TO RECEIVE NEW FINISHES.

11 ALL LOOSE ITEMS (ARTWORK, FRAMED PICTURES, ETC.) ON WALL WILL BE REMOVED BY OWNER. FIXED ITEMS ON WALLS WILL REMAIN IN PLACE DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE ALL EXISTING WALL SIGNAGE ADJACENT TO DOOS AND TURN OVER TO OWNER.

12 ALL EXISTING WALLS SHALL BE REPAINTED AS SCHEDULED. CONTRACTOR RESPONSIBLE FOR PREPARING WALLS AND MINOR PATCHING (IN ADDITION TO SPECIFIC PATCHING AS NOTED). ALL EXISTING DOOR FRAMES SHALL BE REPAINTED. PREPARE EXISTING FRAMES PRIOR TO PAINTING.

# **DEMO LEGEND**

PORTION OF WALL TO REMAIN
PORTION OF WALL TO BE REMOVED
PORTION OF FLOOR TO BE REMOVED
PORTION OF CEILING TO BE REMOVED

# **PROJECT DEMO NOTES**

1 NO CHANGE TO EXTERIOR FRONT FACADE

# **DEMO KEY NOTES**

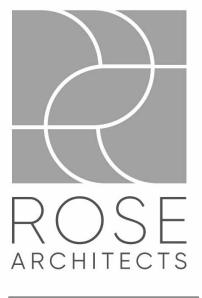
1 REMOVE EXISTING PARTITION AND FINISHES

- 2 REMOVE EXISTING ELECTRICAL FEEDS, RECEPTACLES, SWITCHES, AND LIGHT FIXTURES
- (3) REMOVE EXISTING PLUMBING FIXTURES AND PIPING
- (4) REMOVE EXISITNG HVAC EQUIPMENT, DUCTWORK AND PIPING

5 REMOVE EXISTING MASONRY WALL TO ELEVATIONS SHOWN

6 REMOVE EXISTING ROOF SYSTEM STRUCTURE AND ROOFING FINISHES

- (7) REMOVE EXISTING FLOOR SYSTEM
- (8) REMOVE EXISTING CEILING FINISHES
- (9) REMOVE EXISTING DOOR AND FRAME
- (10) REMOVE EXISTING WINDOW IN ITS ENTIRITY
- (11) REMOVE EXISTING SLAB AND FOUNDATION

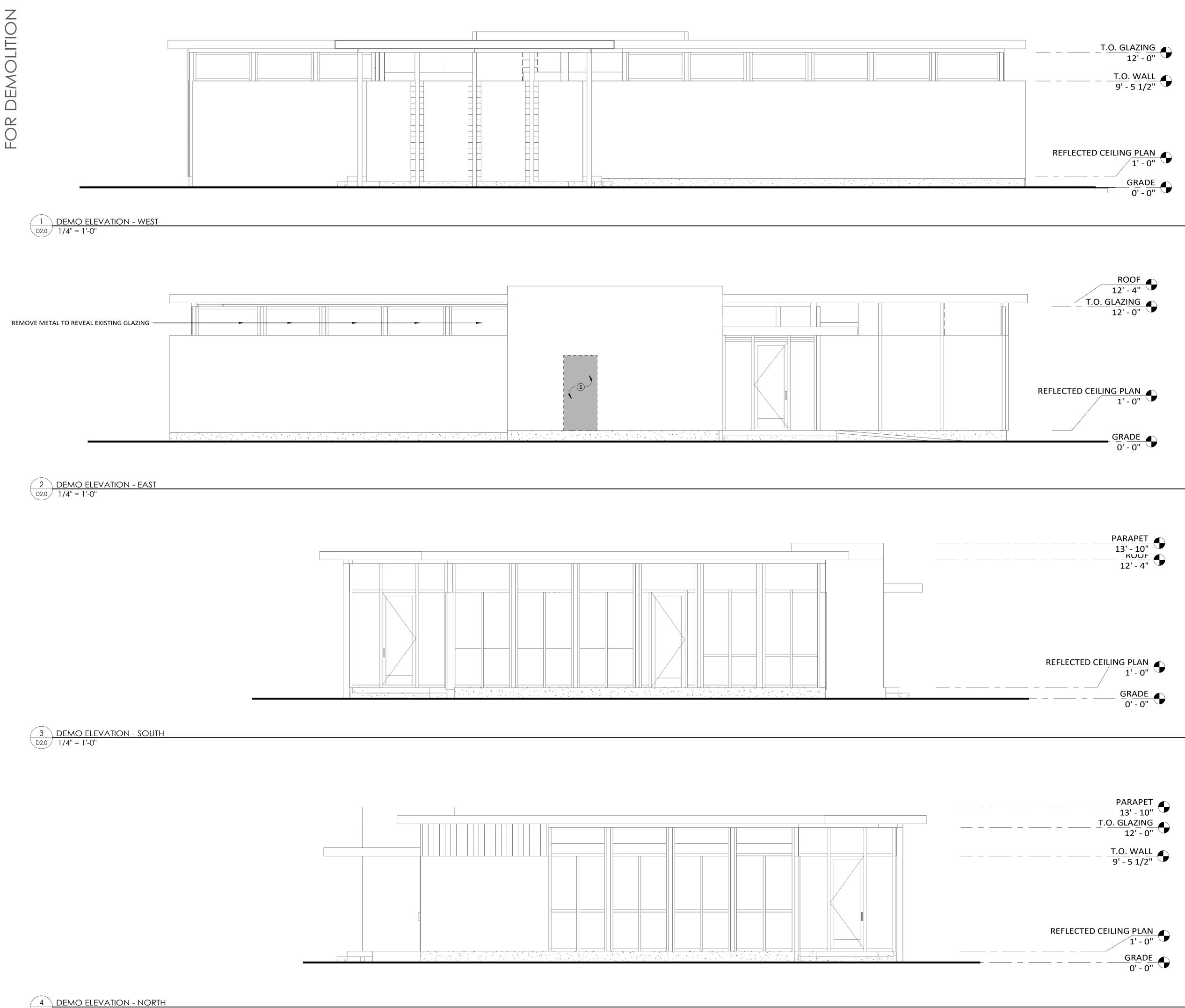




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DEMO FLOOR PLAN 2323 JK KR

D1.0



D2.0 1/4" = 1'-0"

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10 IN AREAS OF WORK, AT EXISTING WALLS TO REMAIN WHERE OUTLETS, ETC. ARE REMOVED, PATCH AND REPAIR WALL TO MATCH EXISTING WALL TEXTURE. PREPARE WALL TO RECEIVE NEW FINISHES.

11 ALL LOOSE ITEMS (ARTWORK, FRAMED PICTURES, ETC.) ON WALL WILL BE REMOVED BY OWNER. FIXED ITEMS ON WALLS WILL REMAIN IN PLACE DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE ALL EXISTING WALL SIGNAGE ADJACENT TO DOOS AND TURN OVER TO OWNER.

12 ALL EXISTING WALLS SHALL BE REPAINTED AS SCHEDULED. CONTRACTOR RESPONSIBLE FOR PREPARING WALLS AND MINOR PATCHING (IN ADDITION TO SPECIFIC PATCHING AS NOTED). ALL EXISTING DOOR FRAMES SHALL BE REPAINTED. PREPARE EXISTING FRAMES PRIOR TO PAINTING.

# **DEMO LEGEND**

	PORTION OF WALL TO REMAIN
┌ ─ ┐ └ _ ┘	PORTION OF WALL TO BE REMOVED
	PORTION OF FLOOR TO BE REMOVED
$\bigotimes$	PORTION OF CEILING TO BE REMOVED

# **PROJECT DEMO NOTES**

1 NO CHANGE TO EXTERIOR FRONT FACADE

# **DEMO KEY NOTES**

(1) REMOVE EXISTING PARTITION AND FINISHES

- (2) REMOVE EXISTING ELECTRICAL FEEDS, RECEPTACLES, SWITCHES, AND LIGHT FIXTURES
- (3) REMOVE EXISTING PLUMBING FIXTURES AND PIPING
- (4) REMOVE EXISITNG HVAC EQUIPMENT, DUCTWORK AND PIPING
- (5) REMOVE EXISTING MASONRY WALL TO ELEVATIONS SHOWN
- (6) REMOVE EXISTING ROOF SYSTEM STRUCTURE AND ROOFING FINISHES
- (7) REMOVE EXISTING FLOOR SYSTEM
- (8) REMOVE EXISTING CEILING FINISHES
- (9) REMOVE EXISTING DOOR AND FRAME
- (10) REMOVE EXISTING WINDOW IN ITS ENTIRITY
- (11) REMOVE EXISTING SLAB AND FOUNDATION

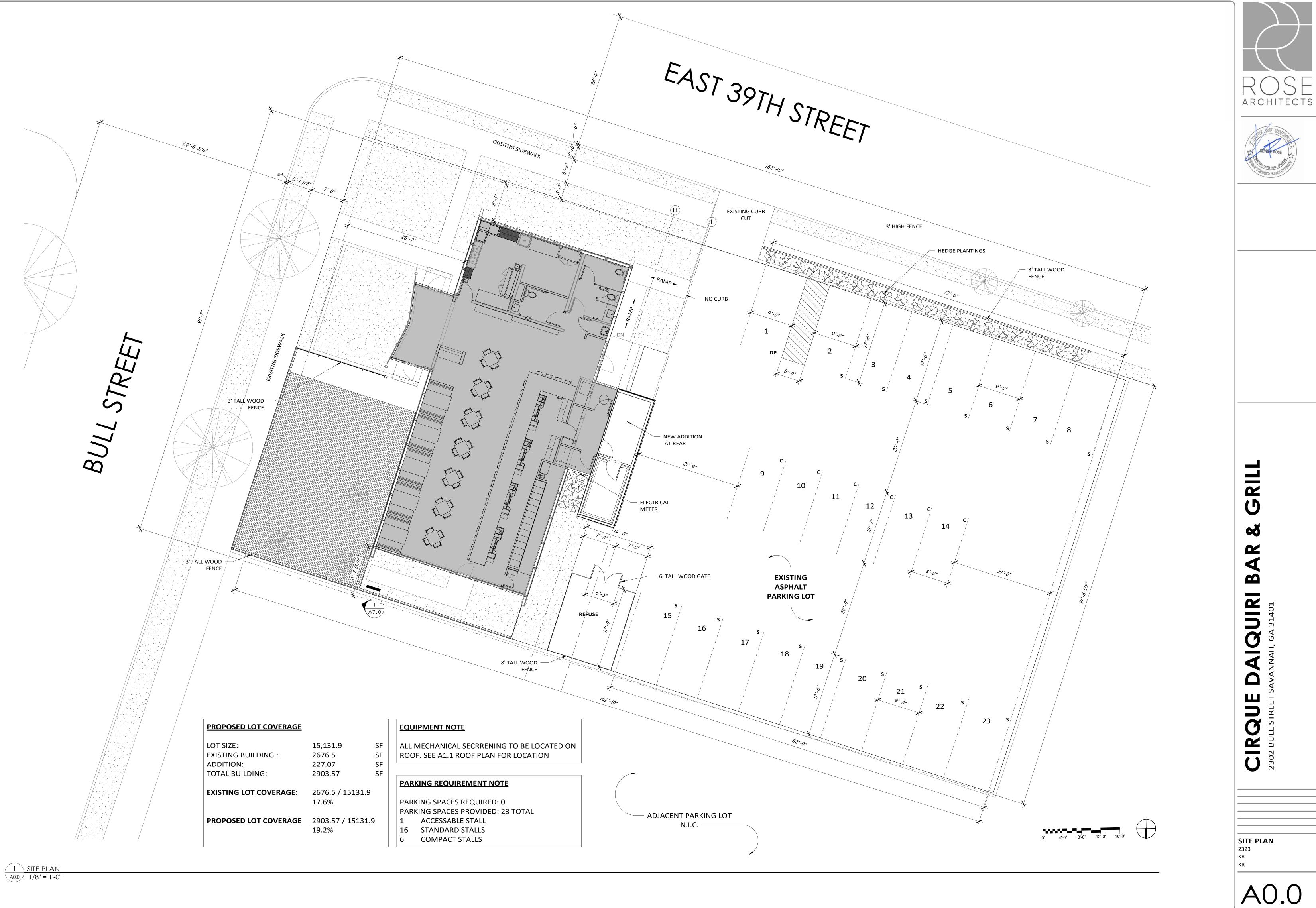




U oð  $\mathbf{\Omega}$ Ø **IRO** CIRG 2302 BULL

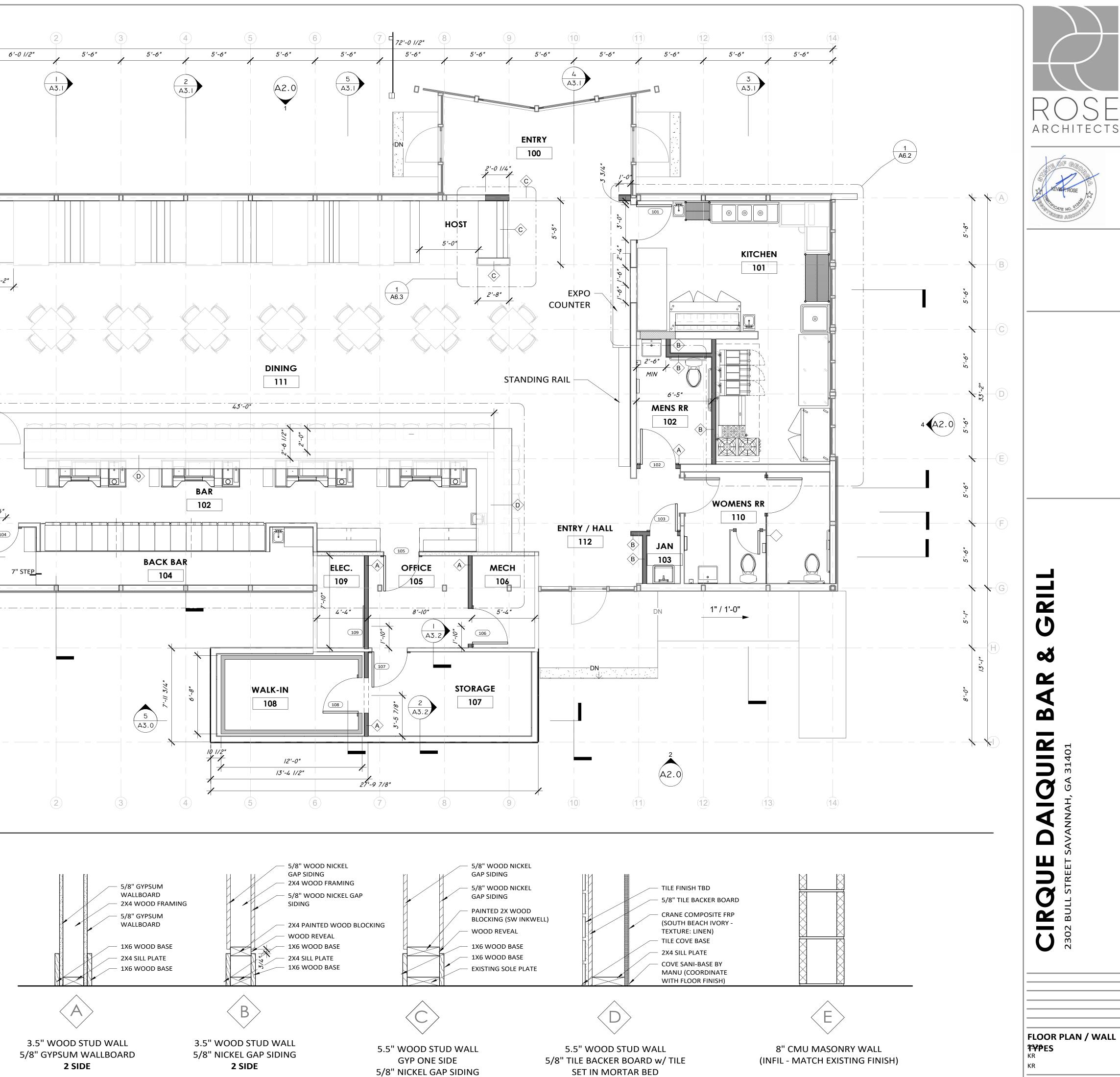
DEMO ELEVATIONS 2323

# D2.0



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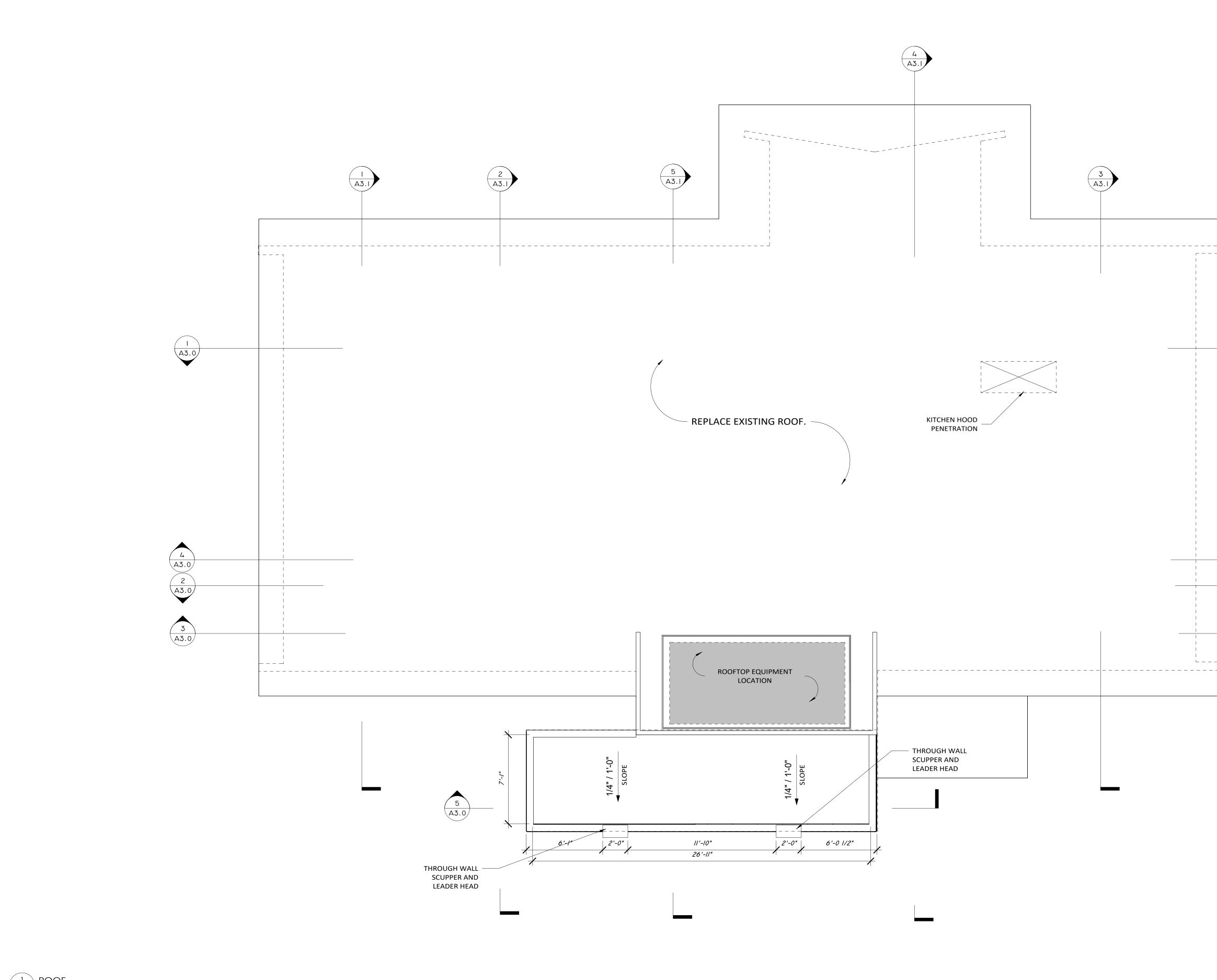
2'-2" A2.0 3 4 A3.0 2 A3.0 3 A3.0 6 A6.2 1 FLOOR PLAN A1.0 1/4" = 1'-0"



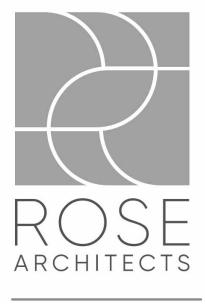
2 SIDES

1 SIDE 5/8 CDX PLYWOOD W/ FRP 1 SIDE

A1.0



1 ROOF A1.1 1/4" = 1'-0"



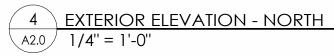


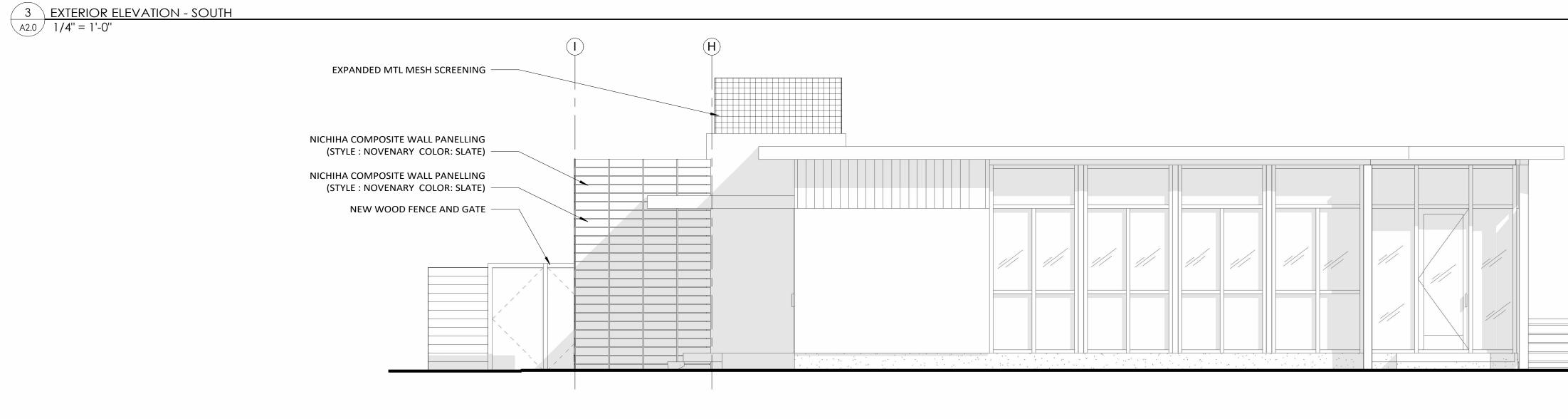
# CIRQUE DAIQUIRI BAR & GRI 2302 BULL STREET SAVANNAH, GA 31401

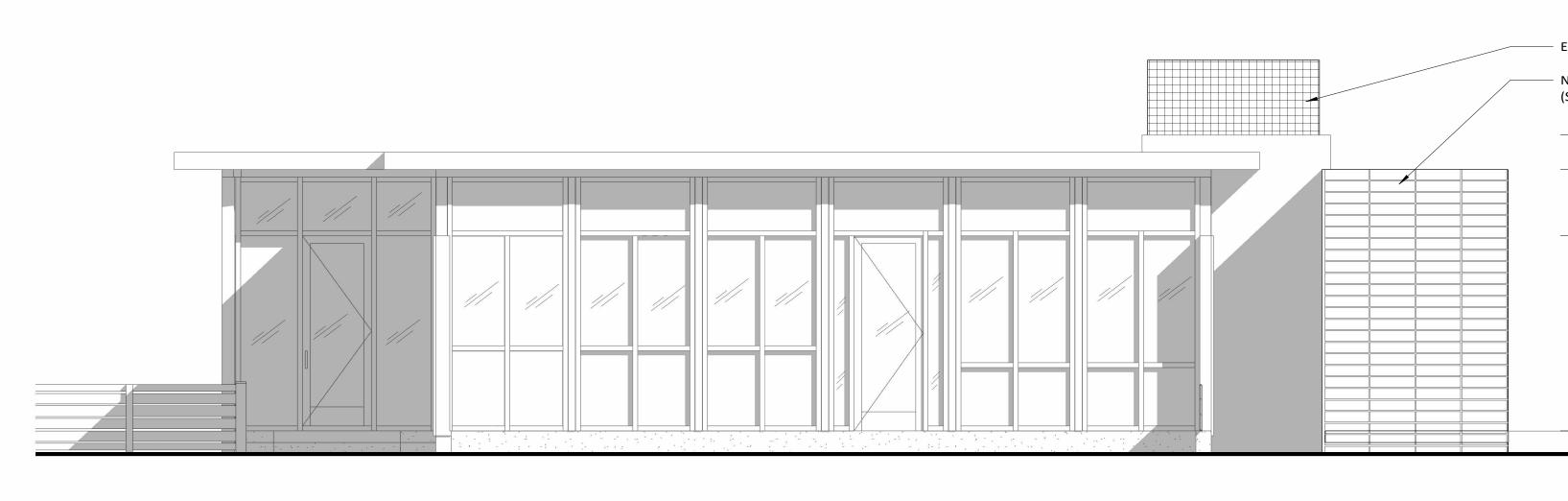
NOTE TO CONTRACTOR: ENSURE POSITIVE DRAINAGE AT ROOF.

REPAIR DAMAGED FACIA AND SOFFITS AS NEEDED. ASSUME 30% REPAIR/ REPLACEMENT FOR COST ESTIMATE

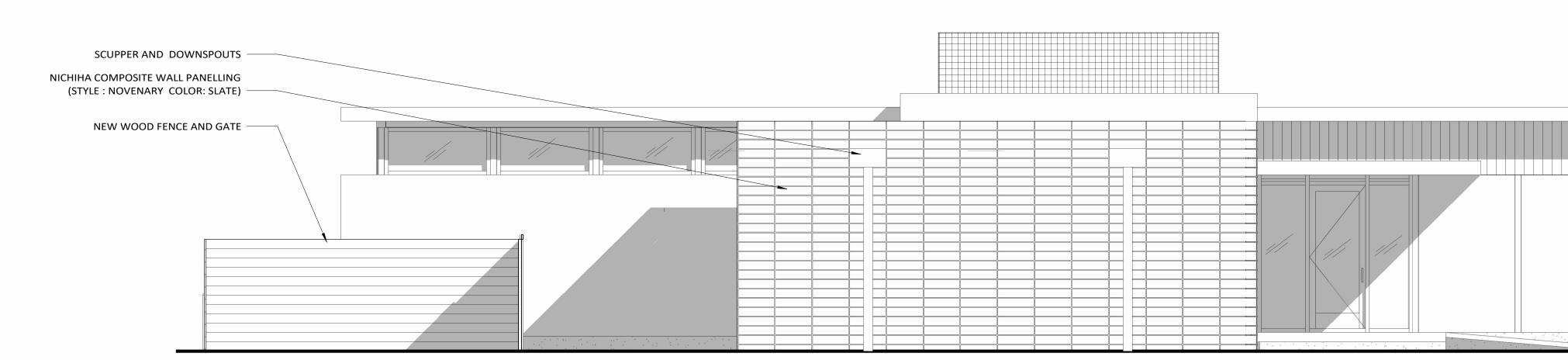
> **ROOF PLAN** 2323 КR КR **M**

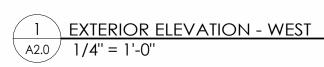


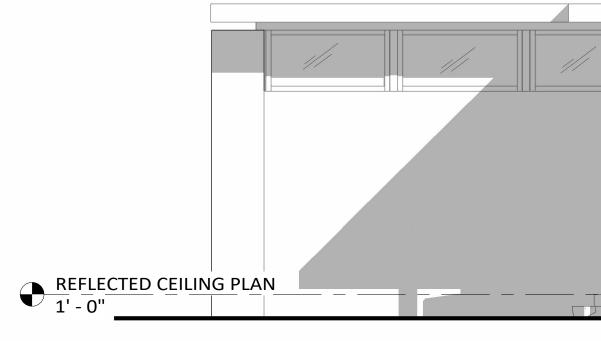




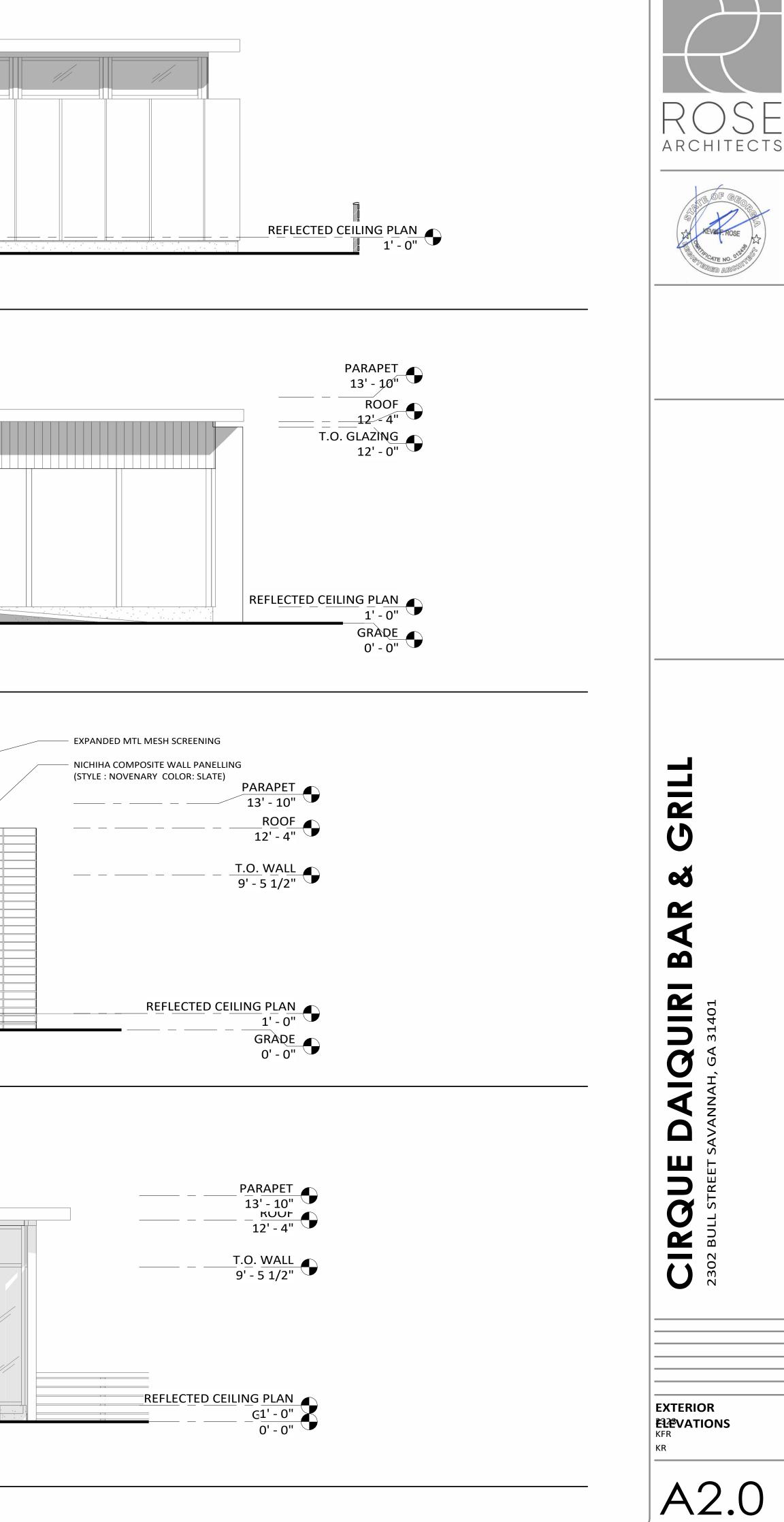
2 EXTERIOR ELEVATION - EAST A2.0 1/4" = 1'-0"







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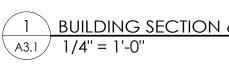
# CIRQUE DAIQUIRI BAR & GRI 2302 BULL STREET SAVANNAH, GA 31401

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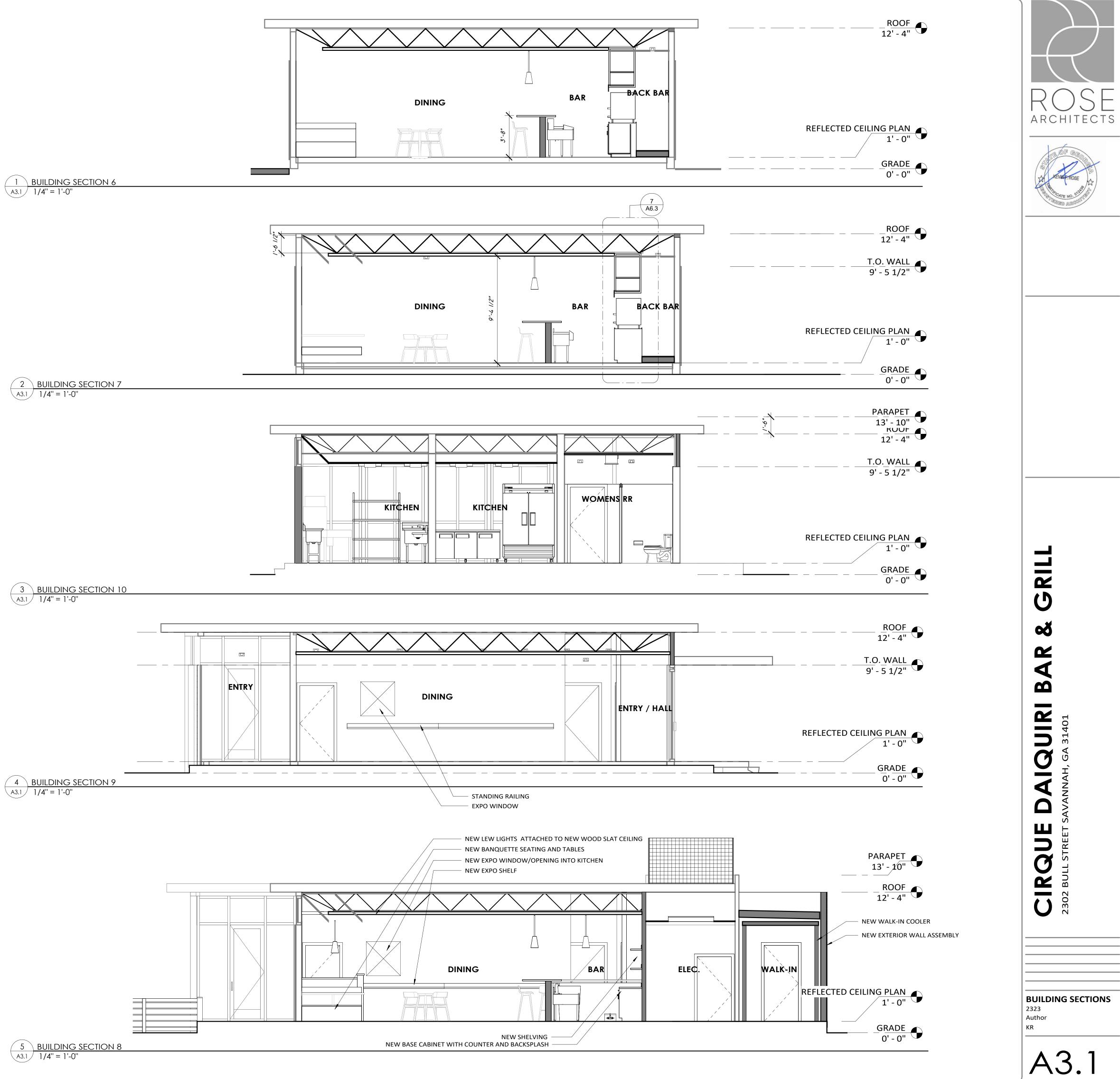
A3.0

ONSTRUCTION  $\bigcirc$ FOR

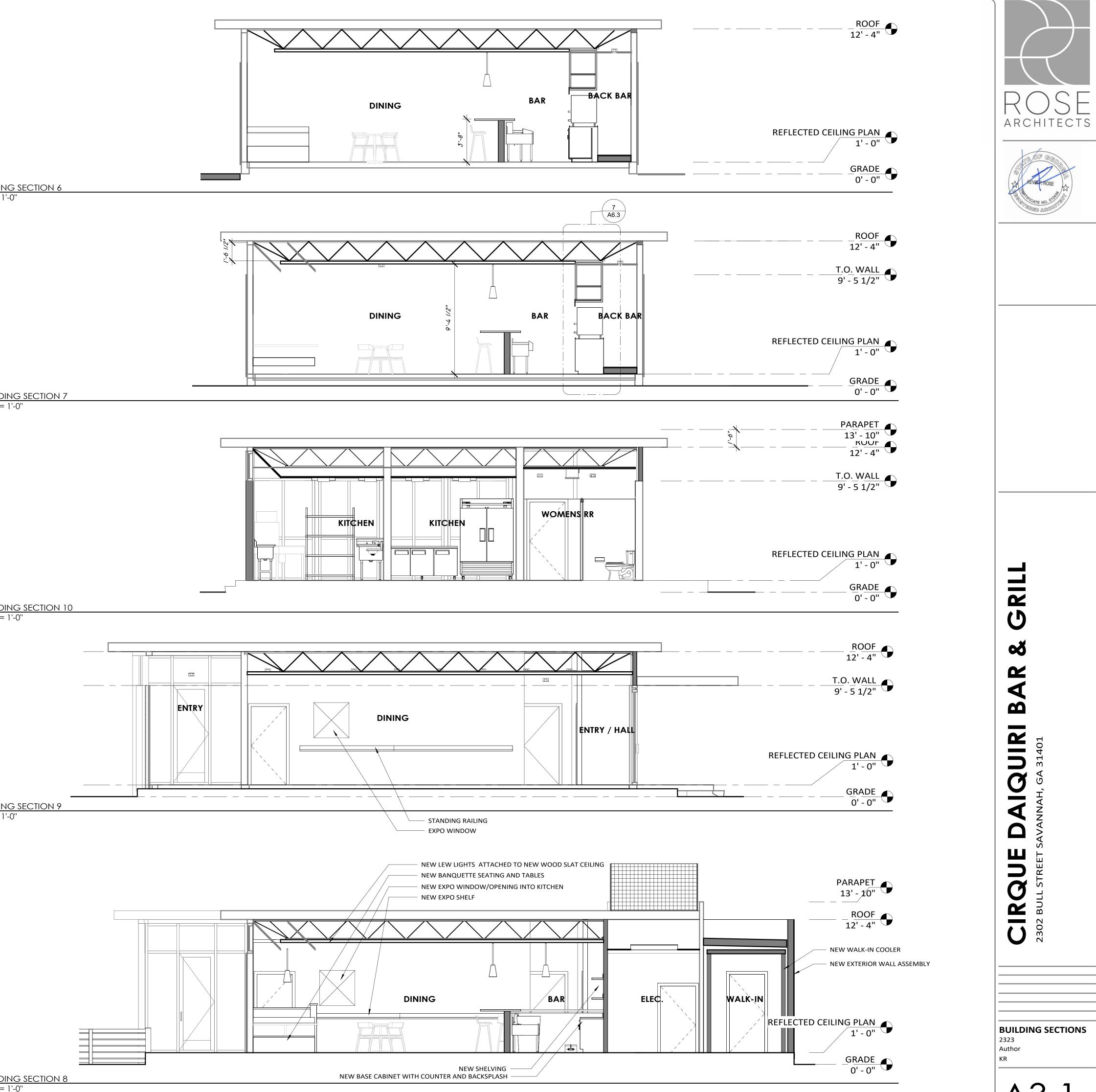


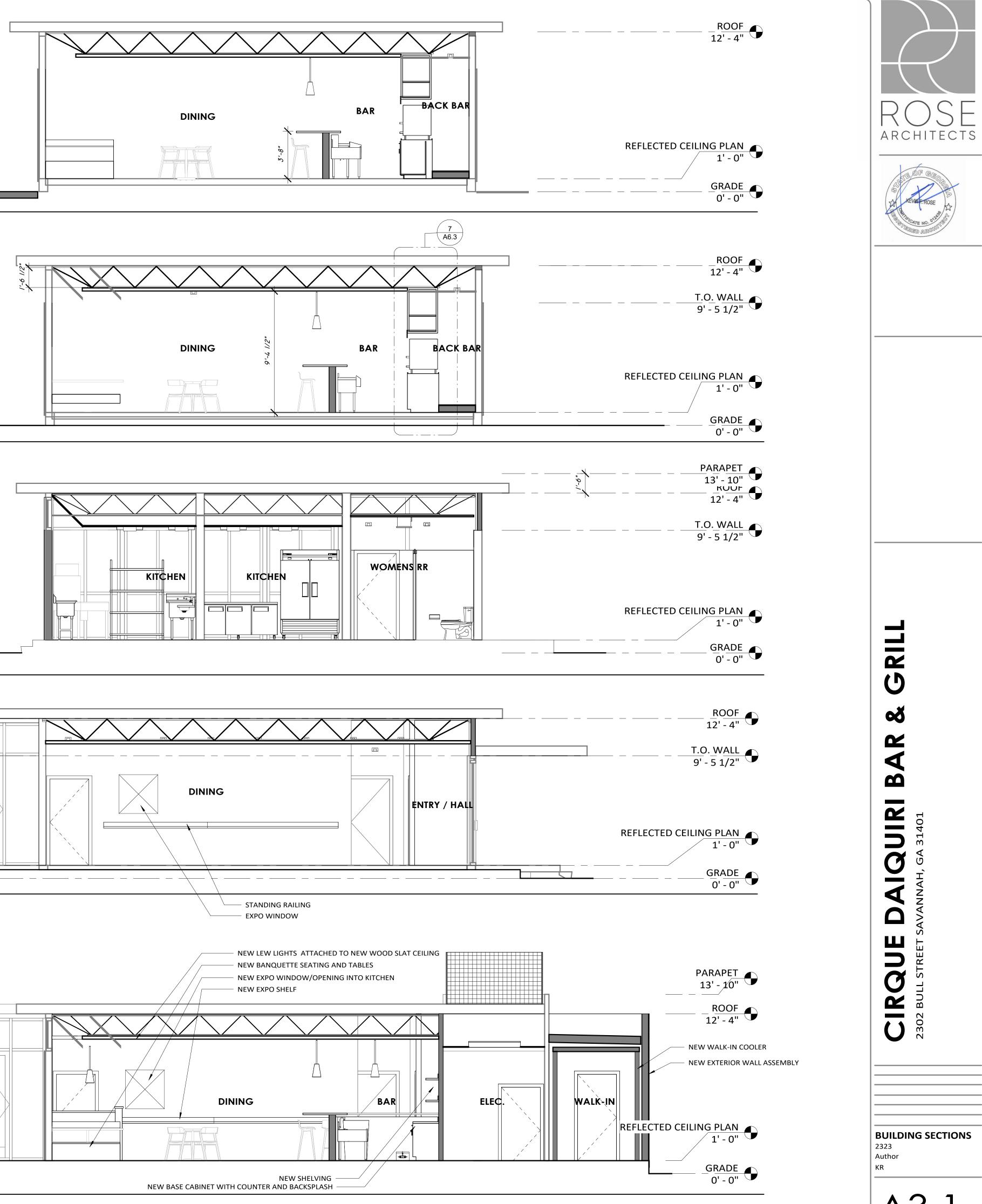


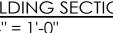


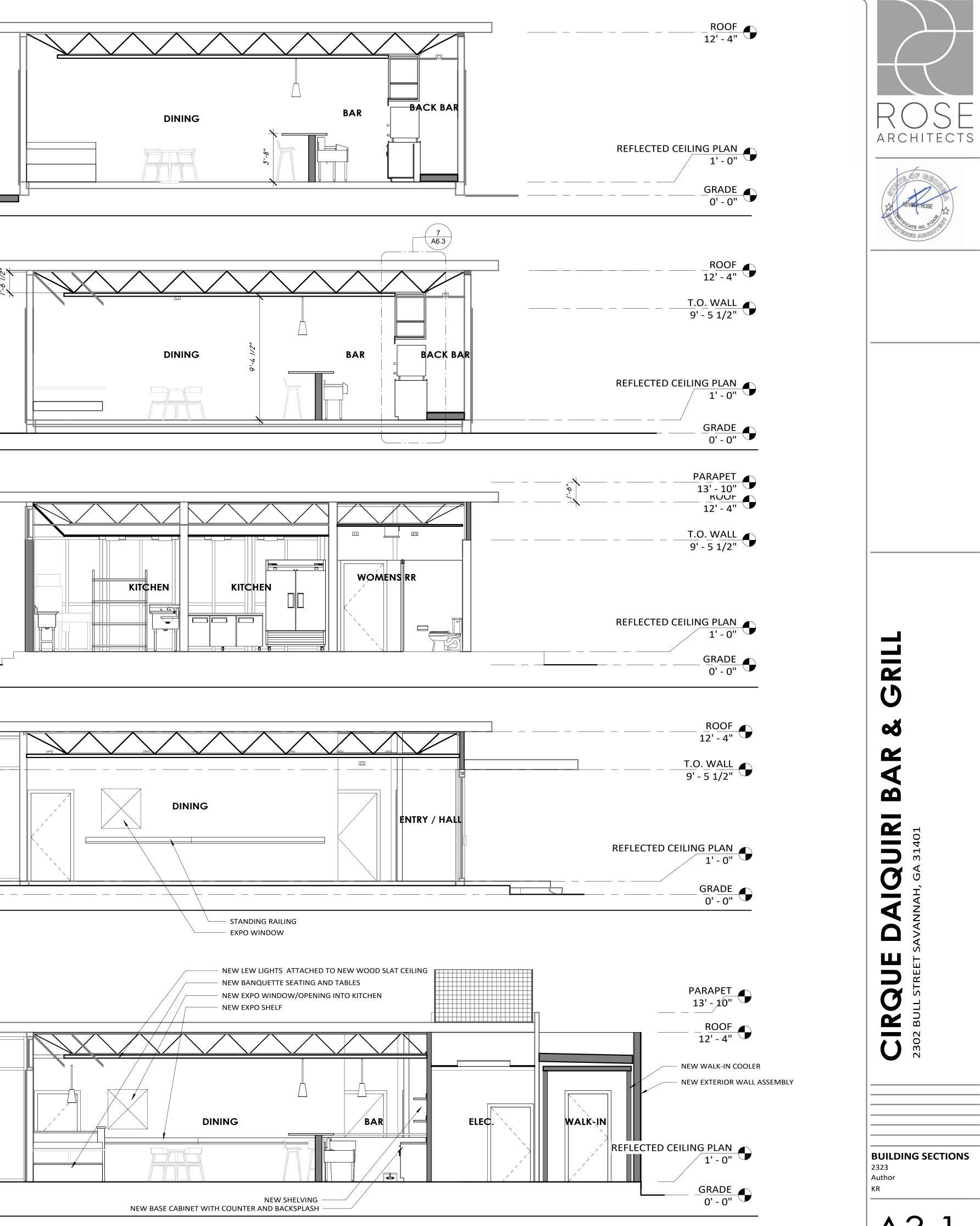






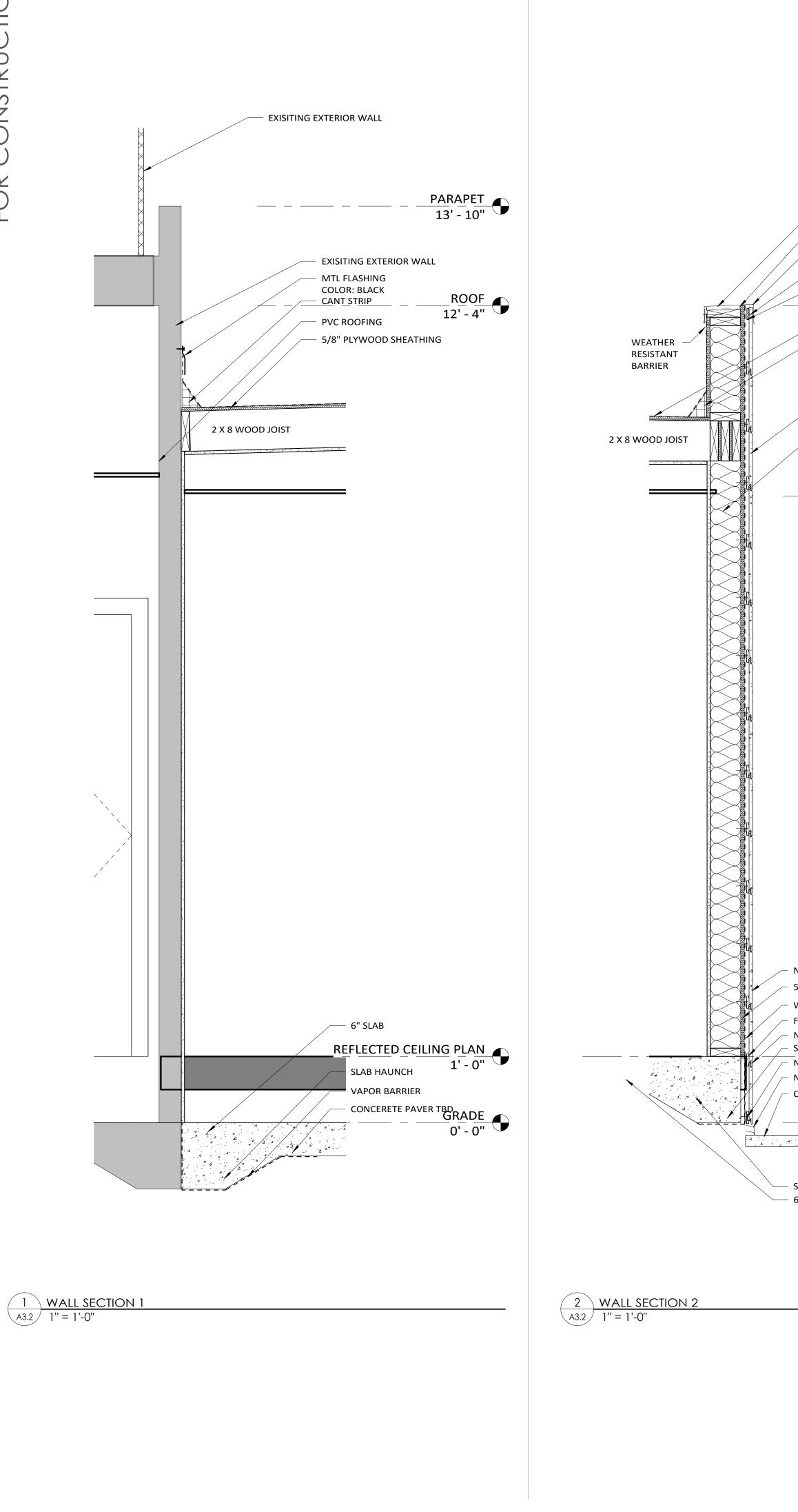












UVAPOR BARRIER         5/8" PLYWOOD SHEATHING         MTL COPING CAP FLASHING         COLOR: BLACK         FACE FASTERR         NICHIHA 10MM SPACER         PVC ROOFING         CANT STRIP         NICHIHA COMPOSITE WALL PANIELLING         (STVE: NOVENARY COLOR: SLATE)         6" WOOD FRAMING         T.O. WALL         9' - 5 1/2"         ************************************	
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<ul> <li>FACE FASTENER</li> <li>NICHIHA 10MM SPACER</li> <li>PVC ROOFING</li> <li>CANT STRIP</li> <li>NICHIHA COMPOSITE WALL PANELLING (STVLE : NOVENARY COLOR: SLATE)</li> <li>G" WOOD FRAMING</li> <li></li></ul>	L COPING CAP FLASHING
Image: PVC ROOFING CAN'T STRIP         PVC ROOFING CAN'T STRIP         Image: PVC ROOFING CAN'T STRIP         Image: PVC ROOFING CAN'T STRIP         Image: PVC ROOFING COMPOSITE WALL PANELLING (STYLE : NOVENARY COLOR: SLATE)         Image: Image: PVC ROOF FRAMING         Image: PVC ROOF FRAMI	CE FASTENER CHIHA 10MM SPACER
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(STYLE : NOVENARY COLOR: SLATE) - 6" WOOD FRAMING 	
(STYLE : NOVENARY COLOR: SLATE) - 6" WOOD FRAMING 	
AIHA PANEL  AIHA PANEL  AIHA PANEL  AIHA PANEL  AIHA PANEL  AIHA RESISTANT BARRIER  TENERS APPLIED TO FRAMING  AIHER RESISTANT BARRIER  TENERS APPLIED TO FRAMING  AIHA STARTER TRACK ILINATE CLIP  PLATE REFLECTED CEILING PLAN IL'-O''  THA ESSENTIAL STARTER FLASHING  ICERETE PAVER TBD  GRADE O'-O''  BHAUNCH	CHIHA COMPOSITE WALL PANELLING
P' - 5 1/2" HIHA PANEL PAPA RATED PLYWOOD SHEATHING ATHER RESISTANT BARRIER TENERS APPLIED TO FRAMING HIHA ULTIMATE CLIP PLATE <u>REFLECTED CEILING PLAN</u> HIHA SSENTIAL STARTER TLASHING ICERETE PAVER TBD GRADE 0' - 0" •	
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GRADE O' - O"	ATED PLYWOOD SHEATHING RESISTANT BARRIER APPLIED TO FRAMING LTIMATE CLIP REFLECTED CEILING PLAN TARTER TRACK
B HAUNCH	
B HAUNCH	GRADE 0' - 0"
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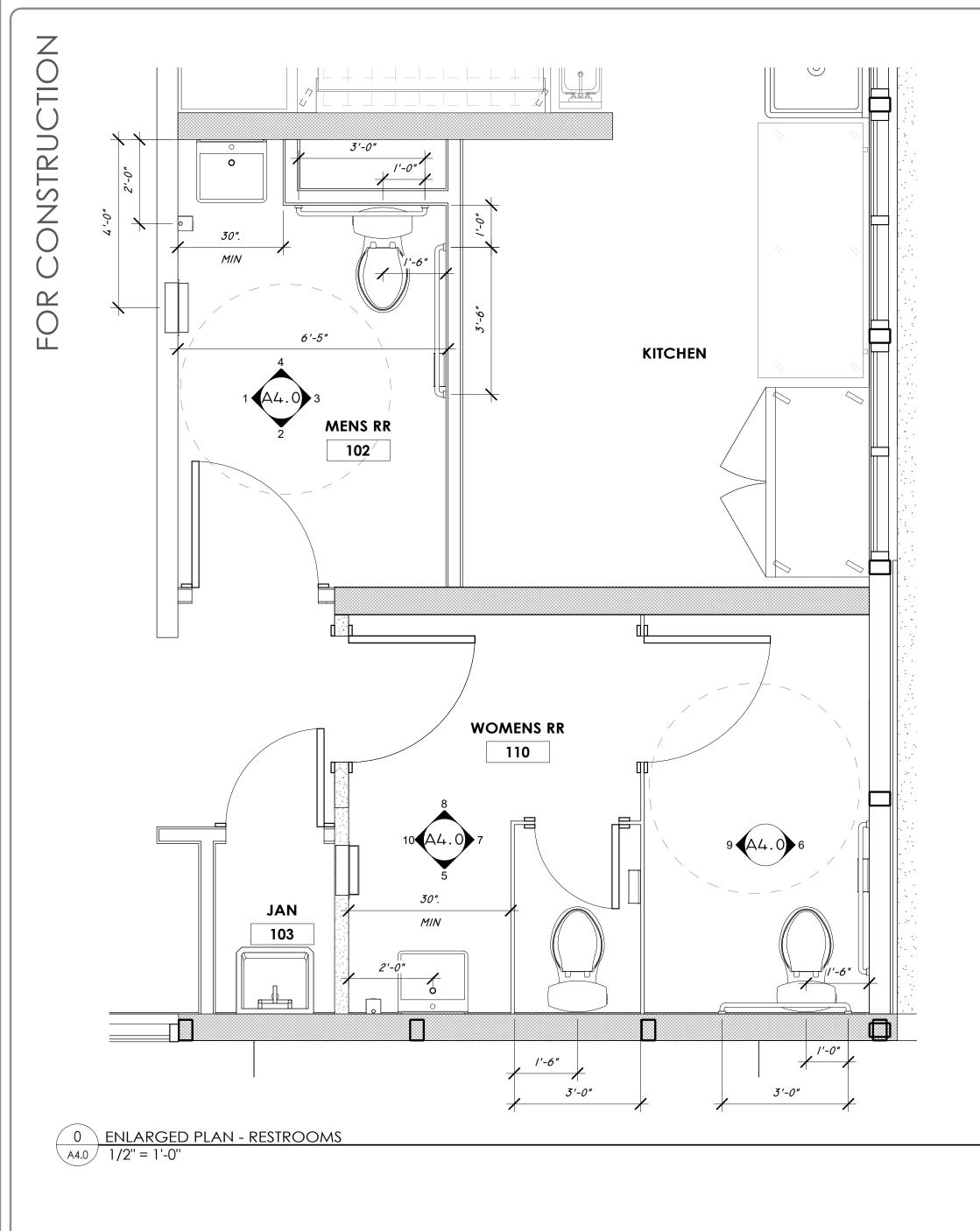


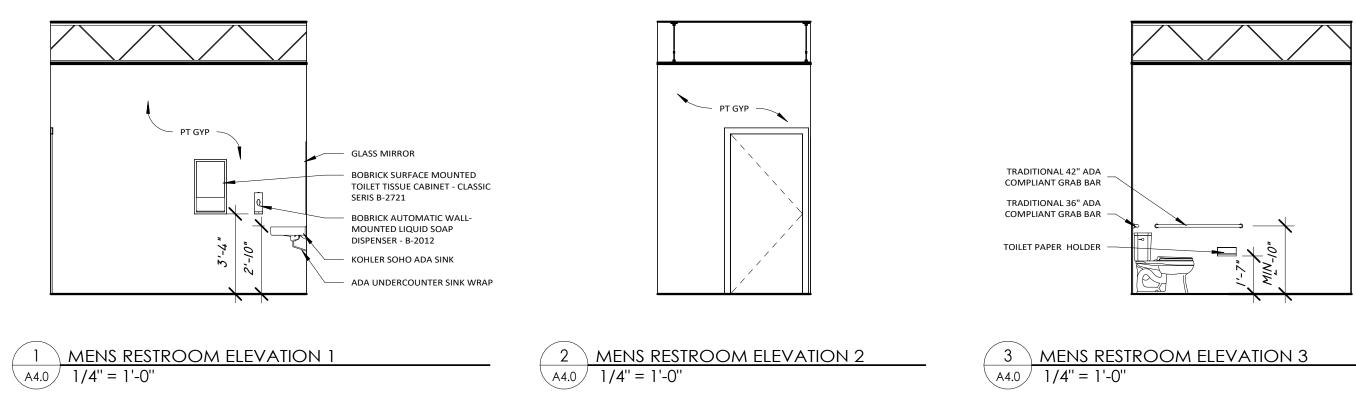


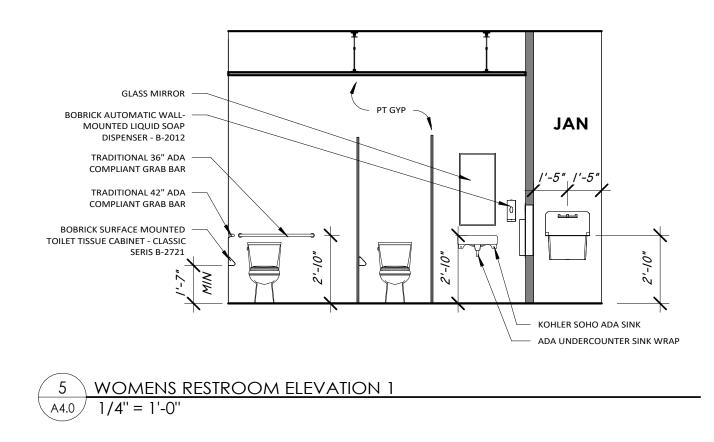
# CIRQUE DAIQUIRI BAR & GRII 2302 BULL STREET SAVANNAH, GA 31401

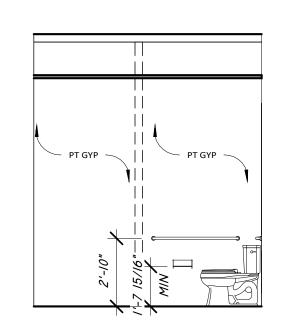
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A3.2

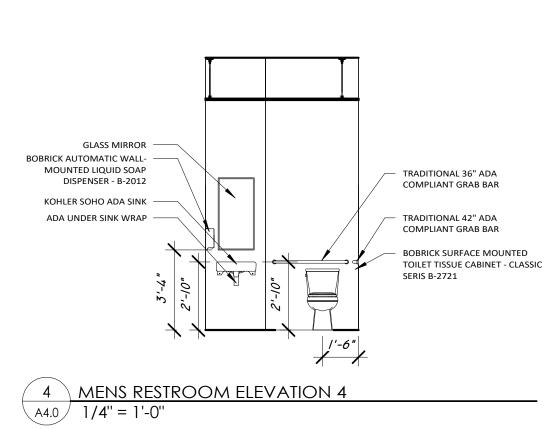


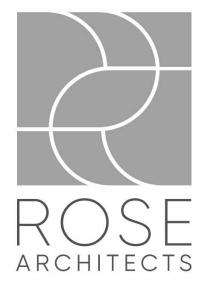




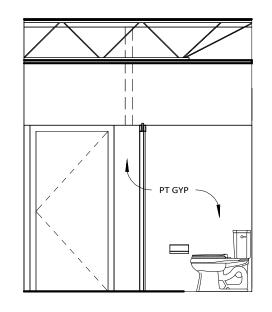


6 WOMENS RESTROOM ELEVATION 2 A4.0 1/4" = 1'-0"



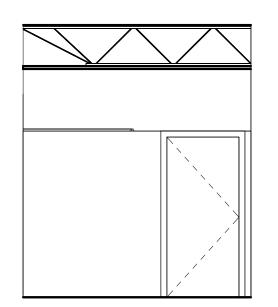




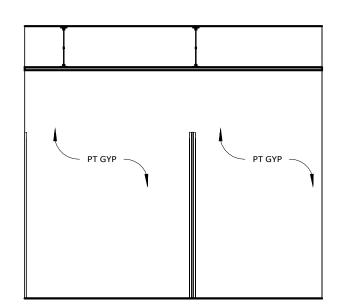


 7
 WOMENS RESTROOM ELEVATION 3

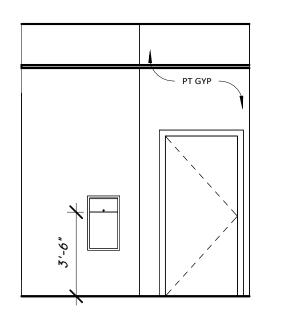
 A4.0
 1/4" = 1'-0"



9 WOMENS RESTROOM ELEVATION 5 A4.0 1/4" = 1'-0"

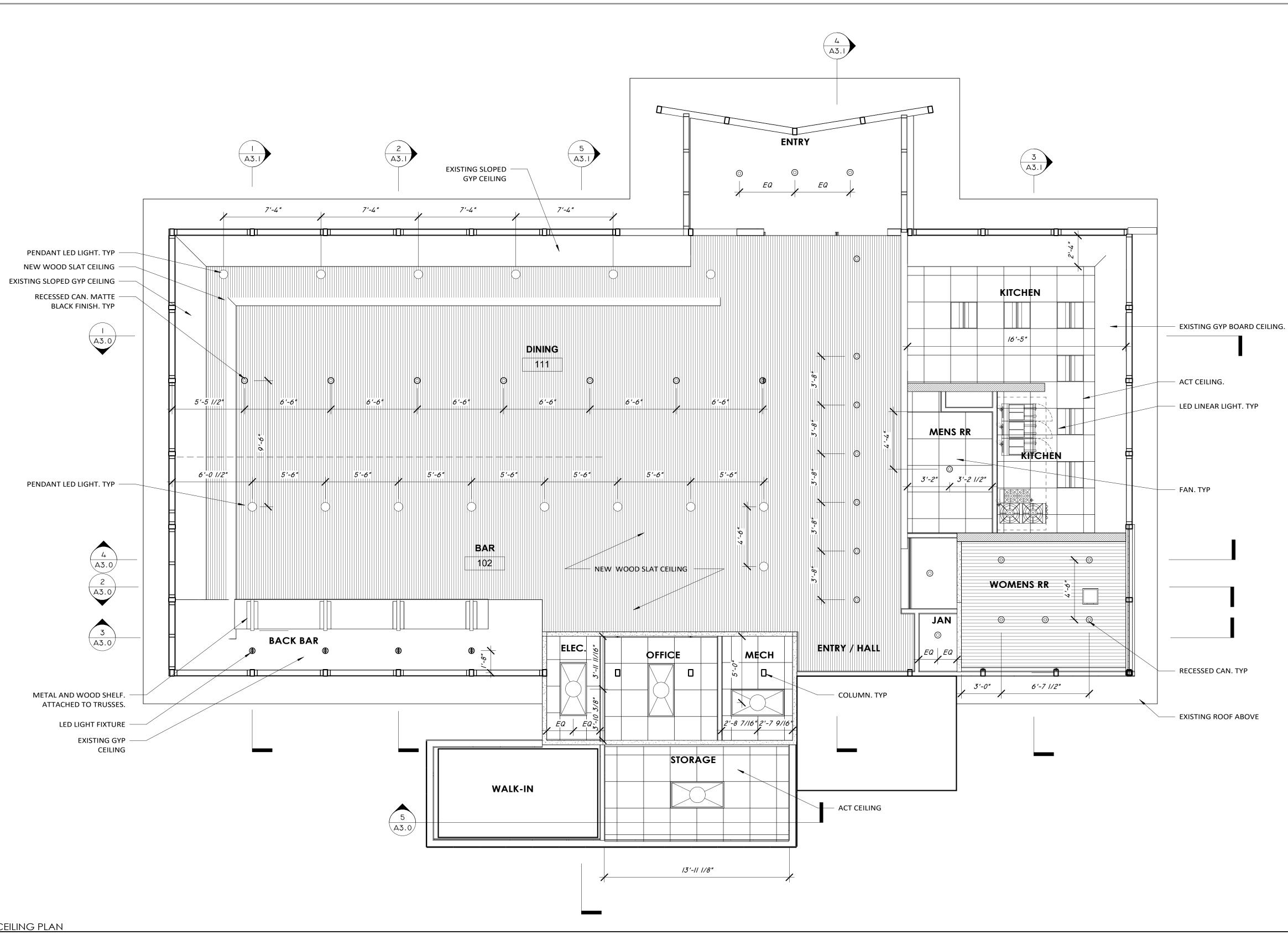


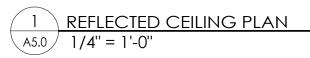




10 WOMENS RESTROOM ELEVATION 6 A4.0 1/4" = 1'-0"

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REFLECTED CEILING

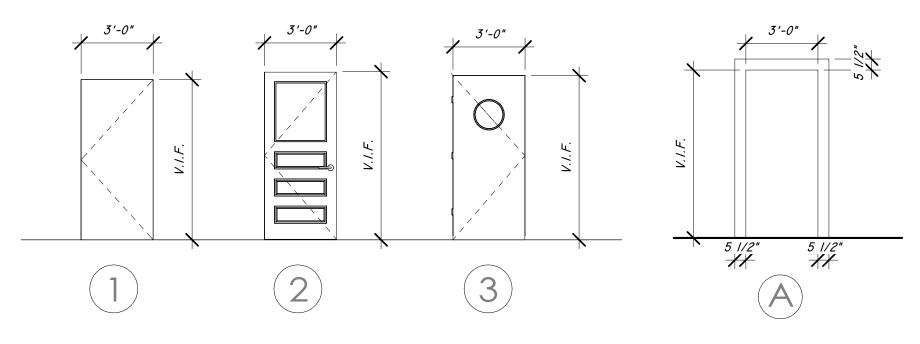


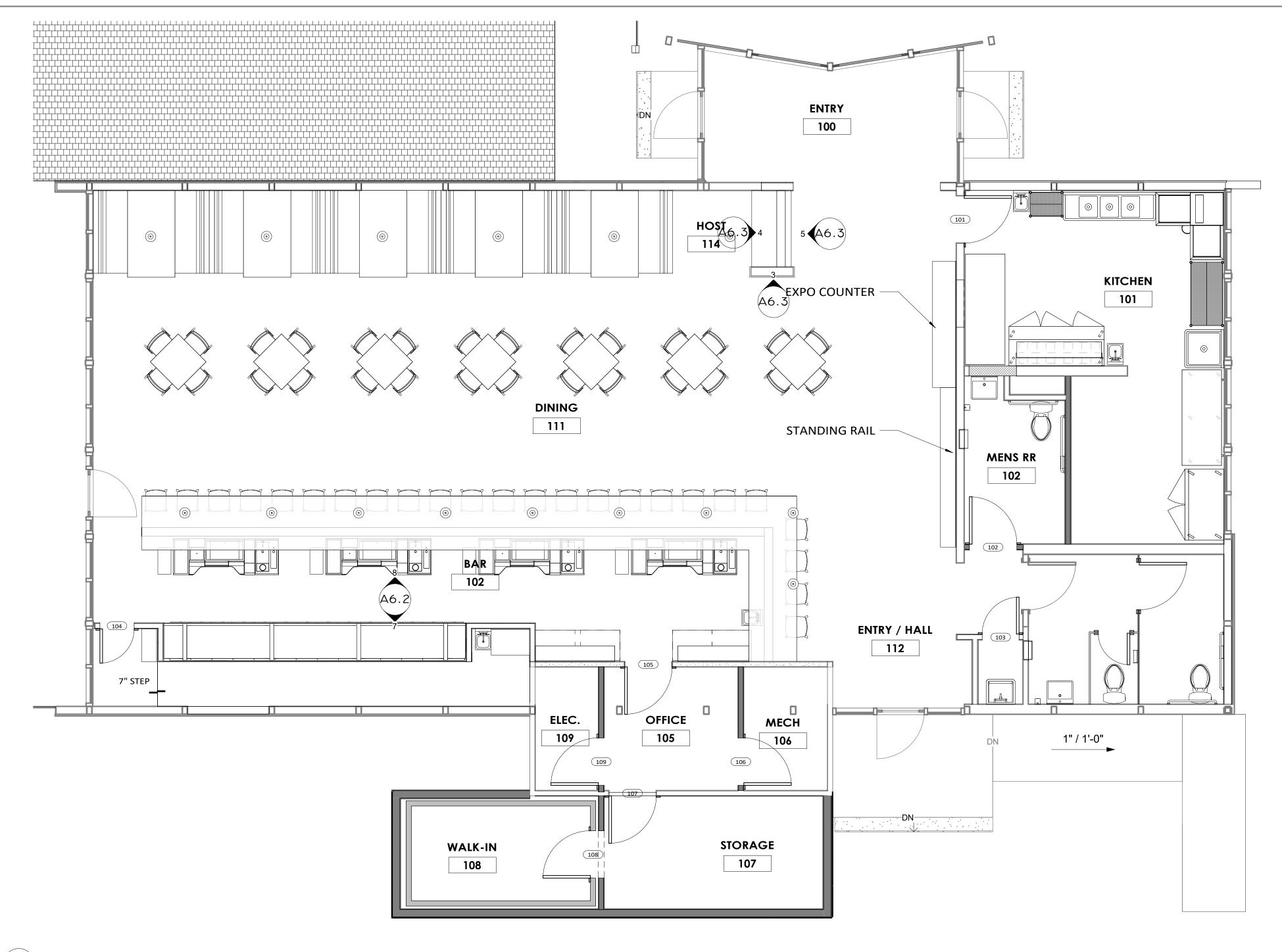
KR

# **DOOR SCHEDULE**

	C	Door	Door			Frame		
#	Width	Height	Туре	Finish	Height	Material	Туре	Comments
101	3' - 0"	6' - 8"	3	PT	6' - 8"	WD	A	
102	3' - 0"	6' - 8"	2	PT	6' - 8"	WD	A	
103	2' - 4"	6' - 8"	1	PT	6' - 8"	WD	A	
104	2' - 2"	7' - 0"	3	PT	7' - 0"	WD	A	
105	3' - 0"	6' - 8"	1	PT	6' - 8"	WD	A	
106	3' - 0"	6' - 8"	1	PT	6' - 8"	WD	A	
107	3' - 0"	6' - 8"	3	PT	6' - 8"	WD	A	
108	3' - 0"	6' - 8"	1	N/A	6' - 8"	MT	A	WALK IN COOLER
109	3' - 0"	6' - 8"	1	PT	6' - 8"	WD	A	

# **DOOR TYPES**





1 FINISH PLAN A6.1 1/4'' = 1'-0''

# FINISH SCHEDULE

			WALL		
ROOM #	<b>ROOM NAME</b>	AREA	FINISH	FLOOR FINISH	<b>CEILING FINISH</b>
100	ENTRY	131 ft <sup>2</sup>	PAINT	TILE	
101	KITCHEN	295 ft <sup>2</sup>	PAINT	TILE	ACT
102	MENS RR	62 ft <sup>2</sup>	PAINT	TILE	ACT
102	BAR	296 ft <sup>2</sup>	PAINT	TILE	WOOD SLAT
103	JAN	11 ft²	PAINT	TILE	ACT
104	BACK BAR	105 ft <sup>2</sup>	PAINT	TILE	WOOD SLAT
105	OFFICE	66 ft²	PAINT	TILE	ACT
106	MECH	41 ft <sup>2</sup>	PAINT	TILE	ACT
107	STORAGE	99 ft <sup>2</sup>	PAINT	TILE	ACT
108	WALK-IN	68 ft²	N/A	N/A	N/A
109	ELEC.	31 ft <sup>2</sup>	PAINT	TILE	ACT
110	WOMENS RR	52 ft <sup>2</sup>	PAINT	TILE	ACT
111	DINING	1153 ft²	PAINT	TILE	WOOD SLAT
112	ENTRY / HALL	133 ft <sup>2</sup>	PAINT	TILE	WOOD SLAT
114	HOST	26 ft <sup>2</sup>	PAINT	TILE	WOOD SLAT
115	REFUSE	233 ft <sup>2</sup>	N/A	N/A	N/A

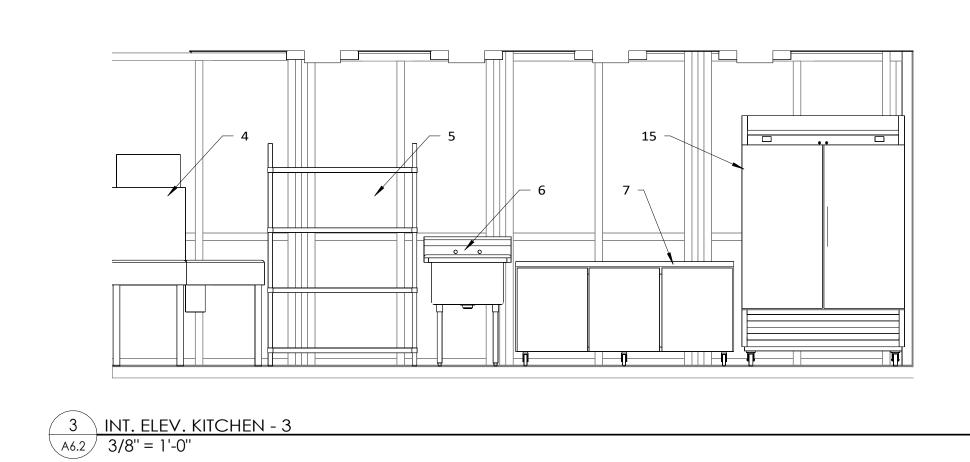


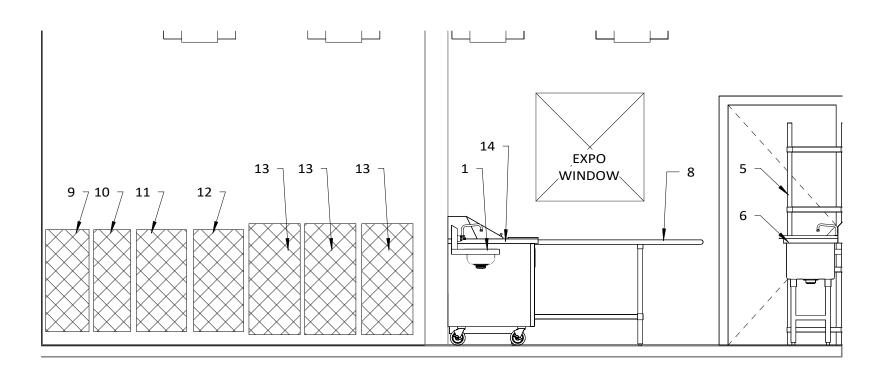


CIRQUE DAIQUIRI BAR & GRI 2302 BULL STREET SAVANNAH, GA 31401

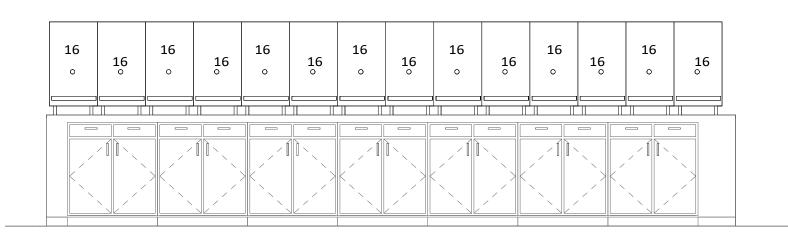
FINISH PLAN AND

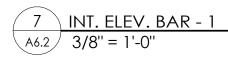






5 INT. ELEV. KITCHEN - 5 A6.2 3/8" = 1'-0"





# **KITCHEN AND BAR EQUIPMENT**

# TYPE

- HAND SINK 24 X 18 WIRE SHELVING
- 70" 3 COMPARTMENT SINK /W DRAINBOARD 2 SIDES
- CORNER DISH MACHINE 48 X 24 WIRE SHELVING
- 24 X 24 PREP SINK 72" UNDERCOUNTER FREEZER OR REFRIGERATOR
- 30 X 84 WORK TABLE
- RANGE, STOCK POT
- HOTPLATE, COUNTERTOP 10 EQUIPMENT STAND 11
- GRIDDLE, COUNTERTOP 12
- 13 FRYER, GAS
- 72" MEGA TOP SANDWICH / SALAD REFRIGERATOR 14 54" UPRIGHT REFRIGERATOR 15
- DAQUIRI MACHINE 16
- 17 COCKTAIL STATION

TBD REGENCY TBD TBD TBD Advantco

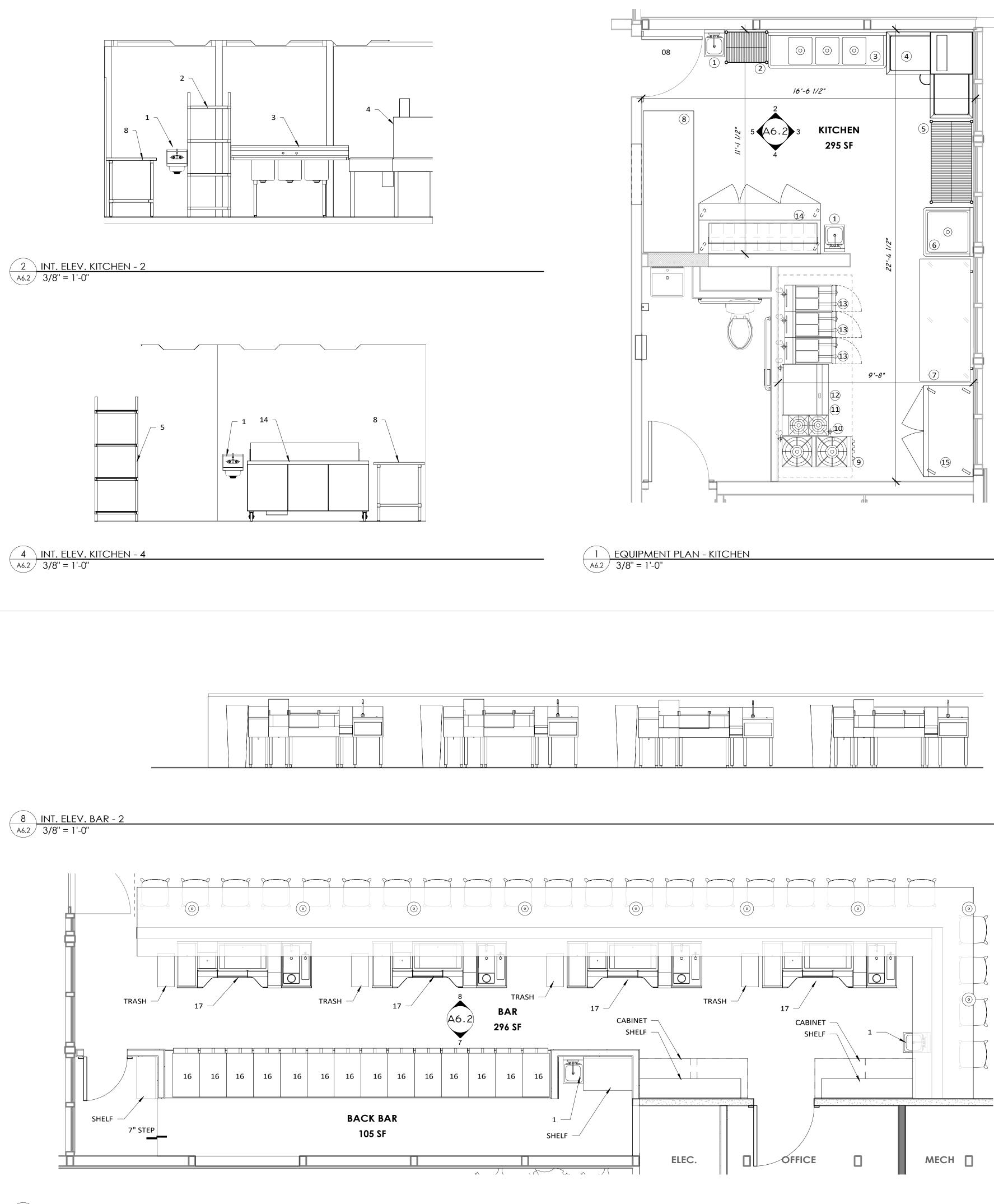
MAKE

STEELTON

GSW Atosa USA, Inc. Atosa USA, Inc. ATS MFG Atosa USA, Inc. Atosa USA, Inc. Atosa USA, Inc. TRUE FROSTY FACTORY KROWNE

#### MODEL 522HS1216

TBD 600B31014213 TBD TBD TBD AU-60R-HC WT-EE3084 ATSP-18-2 ACHP-2 48"W x 30"D x 24"H 30"W x 28-3/5"D x 15-1/5"H, 15-3/5"W x 30-1/10"D x 44-2/5"H TBD T-19-HC 235R CRU-60R



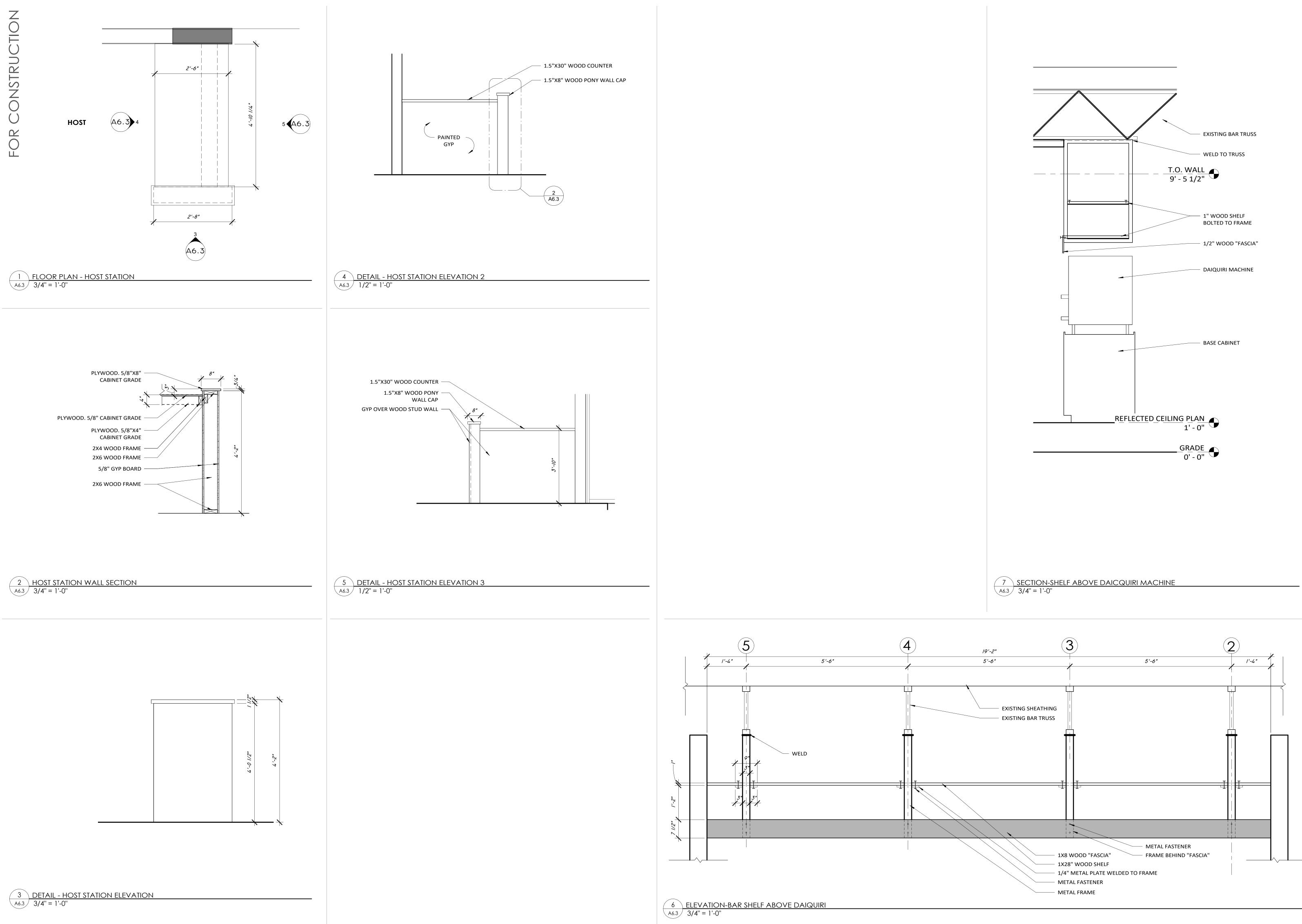
6 EQUIPMENT PLAN - BAR A6.2 3/8" = 1'-0"

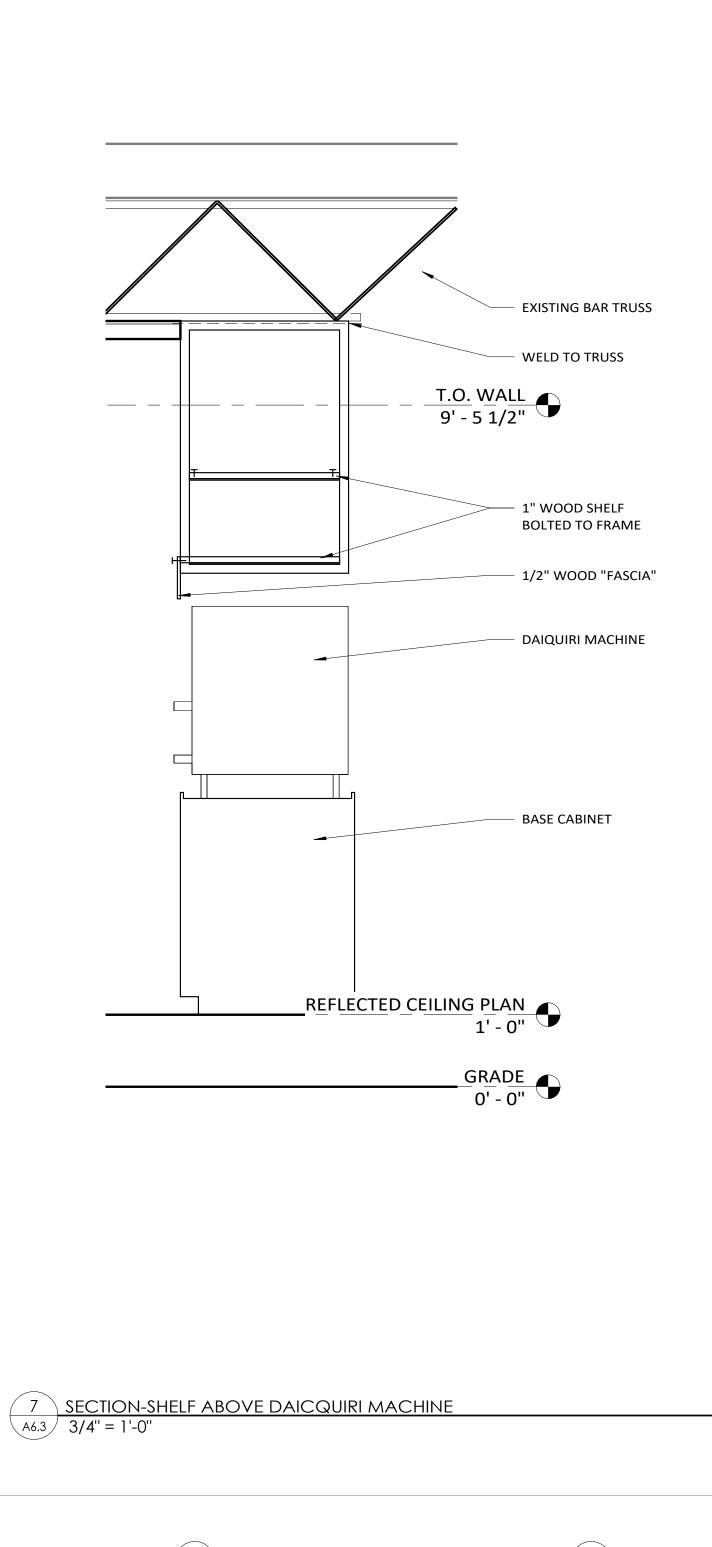


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EQUIPMENT PLAN 2323 KR KR

A6.2





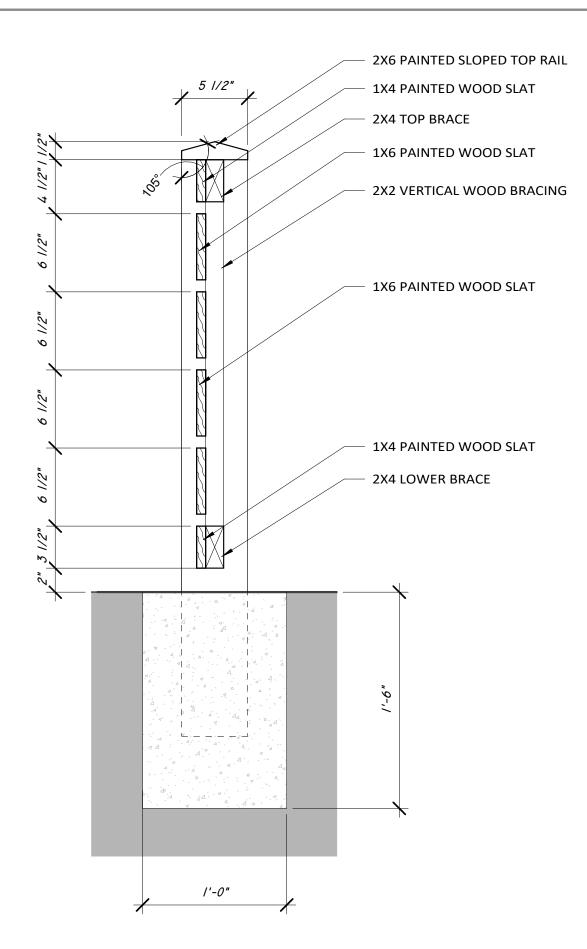
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ARCHITECTS

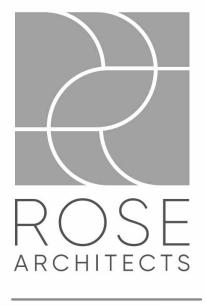
INTERIOR DETAILS
INTERIOR DETAILS
2323

A6.3





1 LOW FENCE SECTION A7.0 1 1/2" = 1'-0"





# CIRQUE DAIQUIRI BAR & GRII 2302 BULL STREET SAVANNAH, GA 31401

**DETAILS** 2323 JK KR **A7.0** 

#### STRUCTURAL DESIGN CRITERIA

#### BUILDING CODE 2018 INTERNATIONAL BUILDING CODE (IBC)

DEAD LOAD

DESIGN DEAD LOAD	ΓABLE
CONSTRUCTION	DEAD LOAD
ROOF	15 PSF
CLAY WALL WEIGHT	18 PSF

FLOOR LIVE LOAD

FLOOR LIVE	LOAD TABLE	
FLOOR USE	UNIFORM LIVE LOADING	CONCENTRATED LIVE LOADING
DINING	100 PSF	

ROOF LIVE LOAD

ROOF LIVE I	_OAD TABLE	
ROOF TYPE	UNIFORM LIVE LOADING	CONCENTRATED LIVE LOADING
ORDINARY FLAT AND PITCHED ROOF	20 PSF	300 LBS

#### ROOF SNOW LOAD DATA

GROUND SNOW LOAD, pg = 0 PSF

#### WIND DESIGN DATA

ULTIMATE DESIGN WIND SPEED, Vult = 135 MPH NOMINAL DESIGN WIND SPEED, Vasd = 105 MPH RISK CATEGORY = II WIND EXPOSURE = B INTERNAL PRESSURE COEFFICIENT, (GCpi) = 0.18 (ENCLOSED) COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES = +/-60 PSF

EARTHQUAKE DESIGN DATA

RISK CATEGORY = II SEISMIC IMPORTANCE FACTOR, Ie = 1.00 SITE CLASS = D Ss = 0.307g  $S_1 = 0.112g$ Sps = 0.318g  $S_{D1} = 0.178g$ T∟ = 8 sec

SEISMIC DESIGN CATEGORY = C

SEISMIC FORCE RESISTING SYSTEM					
SEISMIC FORCE RESISTING SYSTEM	DETAILING SECTION	R	$\Omega_0$	Cd	hn LIMIT
A15. LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE OR STEEL SHEETS	14.1 AND 14.5	6 <sup>1</sup> ⁄ <sub>2</sub>	3	4	SDC C = NL

RESPONSE MODIFICATION COEFFICIENT, R =  $6\frac{1}{2}$ ANALYSIS PROCEDURE UTILIZED = EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7-16 12.8) SEISMIC RESPONSE COEFFICIENT, C<sup>s</sup> = 0.049

SEISMIC BASE SHEAR, V = 0.4 KIPS

GEOTECHNICAL INFORMATION

PROJECT GEOTECHNICAL REPORT = PRESUMPTIVE VALUES PER IBC 2018 TABLE 1806.2 ALLOWABLE VERTICAL BEARING PRESSURE = 1,500 PSF ALLOWABLE LATERAL BEARING PRESSURE = 100 PSF/FT BELOW NATURAL GRADE FOOTING-SOIL COEFFICIENT OF FRICTION = 0.10

FLOOD DESIGN DATA

FLOOD ZONE = X

#### **GENERAL REQUIREMENTS**

- THE INTENT OF THESE DRAWINGS IS TO CONFIRM THAT THE INTERIOR WALLS OF THE EXISTING STRUCTURE ARE NON-LOAD BEARING AND ARE PERMITTED TO BE REMOVED WITHOUT STRUCTURAL COMPROMISE. ADDITIONALLY. THE WORK INCLUDES WALL PENETRATIONS IN THE EXISTING STRUCTURE AND AN ADDITION. FOR ITEMS, METHODS AND/OR MATERIALS NOT SHOWN; THE MINIMUM REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE SHALL GOVERN, AS AMENDED BY THE STATE AND LOCAL GOVERNING AGENCIES OF THE PROJECT LOCATION.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE PROVIDED.
- ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER, ARCHITECT OR FNGINFFR
- DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS SHALL GOVERN CONSTRUCTION. THE CONTRACTOR SHALL VERIFY DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND THE SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER SO THAT CLARIFICATION CAN BE PROVIDED.
- THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES AND SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SCAFFOLDING, BRACING AND SHORING
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
- ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION TO THE ARCHITECT/ENGINEER FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT OF MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED OR OTHERWISE REDUCED IN STRENGTH UNLESS
- APPROVED BY THE STRUCTURAL ENGINEER. DISSIMILAR METALS MUST BE SEPARATED BY A COATING SUCH AS ECK CORROSION COATING OR APPROVED
- EQUIVALENT OR NEOPRENE GASKET MATERIAL TO PREVENT GALVANIC ACTION.

#### STRUCTURAL SPECIAL INSPECTIONS

- HAVE BEEN PREPARED FOR THIS PROJECT AS A PART OF THESE CONSTRUCTION DOCUMENTS: STATEMENT OF SPECIAL INSPECTIONS SCHEDULE OF SPECIAL INSPECTIONS d. STATEMENT OF SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE
- PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE CONTRACTOR SHALL COORDINATE THE INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE SCHEDULING OF PERSONNEL
- FABRICATOR'S SHOP SHALL BE SUBMITTED TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE RECORD IN A TIMELY MANNER.
- CONTRACT DOCUMENTS. WORK NOT IN CONFORMANCE SHALL BE IDENTIFIED IN THE REPORT AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR.
- NOT TO EXCEED 60 DAYS.

- NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY, AS MODIFICATIONS MAY BE REQUIRED
- ITEMS REQUIRING FIELD VERIFICATION INCLUDE: PLAN DIMENSIONS
  - CONSTRUCTION MATERIALS ROOF ELEVATIONS
  - SPAN DIRECTIONS
  - FRAMING AND COLUMN SIZES **BEARING CONDITIONS**
  - WALL MATERIAL AND THICKNESS FOUNDATION DIMENSIONS
- FOUNDATION ELEVATIONS
- DEFECT OF EXISTING STRUCTURAL MEMBERS AND CONNECTIONS.

#### ADDITIONS

- CONSTRUCTION
- PRIOR TO THE ADDITION.
- NEW CONSTRUCTION FOR FLOOD DESIGN.
- COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR NEW CONSTRUCTION.
- ORIGINAL CONSTRUCTION.

### SUBGRADE PREPARATION

AND ENGINEER IMMEDIATELY.

- MATERIAL. SEE SUBGRADE PREPARATION NOTES.
- THE SUBGRADE THE USE OF POLYPROPYLENE FIBERS IN LIEU OF WELDED WIRE FABRIC IS PROHIBITED WITHOUT THE WRITTEN
- AUTHORIZATION OF THE ENGINEER PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND
- FINISH DETAILS
- FINISHED. JOINTS PLACED WITH AN EARLY ENTRY SAW MAY BE CUT 1-4 HOURS AFTER THE SLAB HAS BEEN FINISHED.
- MANUFACTURER'S RECOMMENDATIONS AS FOLLOWS:
- EQUAL PROVIDE STANDARD TROWEL FINISH AT ALL SUB-SLABS.
- VERTICAL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED.

- SLAB EXCAVATIONS.
- SOIL PRESSURES USED FOR FOUNDATION DESIGN: a. ALLOWABLE BEARING PRESSURE = 1500 PSF b. ALLOWABLE PASSIVE PRESSURE = 100 PCF ALL FOUNDATIONS SHALL BE PLACED ON COMPACTED SUBGRADE. SEE SUBGRADE PREPARATION NOTES.
- UNLESS NOTED OTHERWISE REMOVE ALL WATER SOFTENED SOILS FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE. FILL
- REMAINING VOIDS WITH ADDITIONAL CONCRETE.
- LEVEL HAS BEEN COMPLETED

SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED ON THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC). THE FOLLOWING DOCUMENTS

STATEMENT OF SPECIAL INSPECTIONS REQUIREMENTS FOR WIND RESISTANCE

SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN AGENCY SELECTED BY THE OWNER AND APPROVED BY THE ENGINEER OF RECORD. THE AGENCY SHALL MEET ALL OF THE REQUIREMENTS FOR APPROVAL INDICATED IN IBC SECTION 1703.1. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE

WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE INSPECTOR TO ALLOW PROPER 4. ALL REPORTS AND SHOP CERTIFICATION OF SPECIAL INSPECTIONS TO BE PERFORMED ON THE PREMISES OF A

FOR DISTRIBUTING THESE REPORTS TO THE SPECIAL INSPECTOR, THE ARCHITECT, AND THE ENGINEER OF THE COSTS OF THE SPECIAL INSPECTOR'S SERVICES SHALL BE PAID FOR BY THE OWNER. SPECIAL INSPECTIONS

REPORTS AND A FINAL REPORT IN ACCORDANCE WITH IBC SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY. REPORTS SHALL INDICATE THAT THE WORK WAS PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE

A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS, INCLUDING ANY

DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO COMPLETION OF THE STRUCTURAL SYSTEMS BUT AT A FREQUENCY

#### **EXISTING CONDITIONS**

BECAUSE EXISTING STRUCTURAL DRAWINGS ARE NOT AVAILABLE OR UNVERIFIED, THE DESIGN IS BASED ON BASIC FIELD MEASUREMENTS AND ASSUMED CONDITIONS. AS SUCH THE CONTRACTOR SHALL FIELD VERIEY CONDITIONS THAT MAY AFFECT THE STRUCTURAL DESIGN. IF ANY DEVIATIONS ARE DISCOVERED BETWEEN ACTUAL CONDITIONS AND THE CONDITIONS SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL

CONTRACTOR SHALL CONTACT ARCHITECT AND ENGINEER OF SIGNIFICANT DECAY, SPALLS, CORROSION, OR ANY

ADDITIONS TO ANY EXISTING STRUCTURE SHALL COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR NEW

ALTERATIONS TO THE EXISTING STRUCTURE RELATED TO THE ADDITION SHALL MAKE THE EXISTING STRUCTURE OR STRUCTURE TOGETHER WITH THE ADDITION NO LESS CONFORMING WITH BUILDING CODE PROVISIONS THAN

FOR ANY ADDITION OF THE EXISTING STRUCTURE IN FLOOD HAZARD AREAS THAT CONSTITUTES SUBSTANTIAL IMPROVEMENT (COST GREATER THAN 50% OF PRIOR MARKET VALUE), THE EXISTING STRUCTURE SHALL BE MADE TO COMPLY WITH THE FLOOD DESIGN REQUIREMENTS FOR NEW CONSTRUCTION AND ALL ASPECTS OF THE EXISTING STRUCTURE SHALL BE BROUGHT INTO COMPLIANCE WITH THE BUILDING CODE REQUIREMENTS FOR

ANY EXISTING GRAVITY LOAD-CARRYING STRUCTURAL ELEMENT FOR WHICH AN ADDITION AND RELATED ALTERATIONS CAUSE AN INCREASE IN GRAVITY DESIGN LOAD OF MORE THAN 5% SHALL BE STRENGTHENED. SUPPLEMENTED, REPLACED OR OTHERWISE ALTERED AS REQUIRED TO CARRY THE GRAVITY LOAD INCREASE TO UNLESS THE ADDITION IS CONSTRUCTED STRUCTURALLY INDEPENDENTLY OF THE EXISTING STRUCTURE. THE COMBINED STRUCTURE SHALL BE MADE TO COMPLY WITH THE WIND AND SEISMIC DESIGN REQUIREMENTS FOR NEW CONSTRUCTION UNLESS THE LATERAL LOAD IMPACT FROM THE ADDITION IS LESS THAN 10% FROM THE

1. A GEOTECHNICAL ENGINEER SHALL BE OBTAINED BY THE CONTRACTOR FOR GUIDANCE ON PREPARING THE SUBGRADE TO ADEQUATELY ACHIEVE THE ASSUMED SOIL BEARING PRESSURE AS DESCRIBED IN THE FOUNDATION NOTES. IF UNSUITABLE SUBSURFACE CONDITIONS ARE ENCOUNTERED, CONTACT THE ARCHITECT

#### SLABS ON GRADE

ALL SLABS ON GRADE SHALL BE ON COMPACTED SUBGRADE WITH 4 INCHES MINIMUM OF POROUS FILL

ALL SLABS ON GRADE SHOULD BE SUPPORTED ON A MINIMUM OF 4-INCHES OF GRANULAR. FREE-DRAINING POROUS FILL WITH A VAPOR BARRIER AS A CAPILLARY LAYER BETWEEN THE SLAB AND

THE CONTRACTOR SHALL COORDINATE ALL LIMITS AND DEPTHS OF DEPRESSIONS FOR FLOOR FINISHES WITH ARCHITECTURAL DRAWINGS AND SCHEDULES. LIMITS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC.

WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE THE SITE

SAW-CUT CONTRACTION JOINTS SHALL BE CUT AS SOON AS THE CONCRETE CAN BE CUT WITHOUT RAVELING. CONVENTIONAL CAW-CUT JOINTS SHOULD BE RUN WITHIN 4-12 HOURS AFTER THE CONCRETE HAS BEEN

SLAB JOINTS SHALL BE FILLED WITH APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINTS, THEN FILL IN ACCORDANCE WITH THE

a. CONTROL JOINT SEALANT = EUCLID CHEMICAL DURAL 340 SL OR APPROVED EQUAL EXPANSION/ISOLATION JOINT SEALANT = EUCLID CHEMICAL EUCOLASTIC 1 SL OR APPROVED

CONCRETE FINISH FLOORS SHALL HAVE A HARD STEEL TROWELED FINISH UNLESS INDICATED OTHERWISE ON THE DRAWINGS. PLACE, STRIKE OFF, CONSOLIDATE, LEVEL AND FLOAT TO THE PROPER ELEVATION. TROWELING SHALL BEGIN AFTER SURFACE HAS RECEIVED A FLOAT FINISH. THE SLAB DRYING MUST PROCEED NATURALLY AND MUST NOT BE HASTENED BY THE DUSTING ON OF DRY CEMENT OR SAND. LIGHTLY TOOL ALL EDGES AT CONSTRUCTION JOINTS AND EXERCISE CARE THAT SLAB EDGES ARE NOT DEPRESSED ALONG BULKHEADS DURING FINISHING OPERATIONS, PARTICULARLY HAND TROWELING. EXTERIOR SLABS, SIDEWALKS, PADS AND RAMPS SHALL HAVE A LIGHT BROOM FINISH UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

12. PROVIDE 1/2" PREMOLDED EXPANSION JOINT (P.E.J.) FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT

#### FOUNDATIONS

IN ABSENCE OF A PROJECT GEOTECHNICAL REPORT, THE FOUNDATION IS DESIGNED BASED UPON PRESUMPTIVE LOAD-BEARING VALUES OF IBC TABLE 1806.2. A GEOTECHNICAL ENGINEER SHALL BE OBTAINED BY THE CONTRACTOR TO VERIFY THE SUITABILITY OF SHALLOW FOUNDATIONS. THE SOIL PRESSURES LISTED BELOW SHALL ALSO BE CONFIRMED BY FIELD TESTING USING A DYNAMIC CONE PENETROMETER TEST (ASTM STP-300) AT EACH COLUMN FOUNDATION EXCAVATION AND 75 FEET MAXIMUM SPACING ON WALL FOOTING AND THICKENED

THE BOTTOM OF ALL EXTERIOR FOUNDATIONS SHALL BE A MINIMUM OF 18 INCHES BELOW FINISHED GRADE

ALL FOUNDATION REINFORCEMENT SHALL BE PROPERLY TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. WHERE FINISHED GRADES DIFFER ON OPPOSITE SIDES OF FOUNDATION WALLS, PROVIDE TEMPORARY BRACING TO PREVENT LATERAL MOVEMENT UNTIL ALL ADJACENT FILL, COMPACTION, FLOOR SLABS, AND FRAMING AT NEXT

WHERE GRAVITY PLUMBING LINES OCCUR BELOW TOP OF WALL FOOTING, STEP FOOTING DOWN TO PROVIDE CLEARANCES INDICATED ON DETAIL "WALL FOOTING DETAILS - INTERFERENCE OFFSET AT GRAVITY SEWER" UNLESS OTHERWISE SPECIFIED. COORDINATE WITH PLUMBING DRAWINGS FOR LOCATIONS, SIZES, AND INVERTS.

#### **REINFORCING STEEL**

FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT SHALL COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE.

REINFORCING BARS SHALL BE ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. REINFORCING BARS IN WELDED CONDITIONS, WHERE PERMITTED, SHALL BE ASTM A 706, DEFORMED. STEEL WELDED-WIRE REINFORCEMENTS SHALL BE ASTM A 1064 WITH 70 KSI MINIMUM YIELD STRENGTH. NO REINFORCEMENT SHALL BE FLAME-CUT OR BENT IN FIELD WITHOUT GUIDANCE FROM STRUCTURAL ENGINEER. REINFORCING STEEL SHALL HAVE COVER PROTECTION AS FOLLOWS:

CONCRETE COVER PROTECTION TABLE		
CONDITION	MINIMUM COVER	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 INCHES	
CONCRETE EXPOSED TO EARTH OR WEATHER	1 INCH	
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	<sup>3</sup> ₄ INCHES	

### CAST-IN-PLACE CONCRETE

1. ALL CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING ACI PUBLICATIONS a. ACI 301-10 - GENERAL CONSTRUCTION REQUIREMENTS

- b. ACI 117-10 TOLERANCES FOR CONCRETE CONSTRUCTION CONCRETE SHALL BE NORMAL-WEIGHT CONCRETE (145 PCF) WITH MIXES MEETING THE FOLLOWING CRITERIA:
  - FOUNDATION ELEMENTS & SLAB ON GRADE
  - MINIMUM 28-DAY COMPRESSIVE STRENGTH = 4000 PSI COARSE AGGREGATE SIZE = #57 STONE MAXIMUM WATER-TO-CEMENTITOUS MATERIALS RATIO = 0.50
  - SLUMP LIMIT = 5 INCHES (±1 INCH) AIR CONTENT = 4.5% (+/-1.5%)
- 3. ACCEPTABLE CEMENTIOUS MATERIALS:
  - PORTLAND CEMENT ASTM C 150, TYPE II
  - FLY ASH ASTM C 618 b. SLAG CEMENT - ASTM C989
  - BLENDED HYDRAULIC CEMENT ASTM C 595, TYPE IS OR TYPE IP
- ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4-INCH CHAMFER. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. FOR ANY FURTHER RESTRICTIONS ON OPENINGS IN STRUCTURAL ELEMENTS, SEE APPLICABLE SECTIONS BELOW.
- PIPES LARGER THAN 1 1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHEN
- WHERE SPECIFICALLY APPROVED. NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECKING. REQUIRED CAST-IN-PLACE CONCRETE SUBMITTALS TO ENGINEER: PRODUCT DATA - SUBMIT TECHNICAL PRODUCT DATA FOR ANY ADMIXTURES OR CONCRETE-RELATED
- CONSTRUCTION PRODUCTS. DESIGN MIXTURES - THE FOLLOWING ITEMS ARE REQUIRED:
  - MIX IDENTIFICATION BY MEANS OF CLASS OR LOCATION WHERE MIX WILL BE USED. STRENGTH OF CONCRETE
  - TARGET SLUMP, WATER-TO-CEMENT RATIO, DENSITY, AND AIR CONTENT.
  - LIST OF ALL MATERIALS, ADMIXTURES, AND ADDITIVES ALONG WITH THEIR PROPORTIONS. NOMINAL MAXIMUM AGGREGATE SIZE AND COMBINED AGGREGATE GRADATION.
  - CALCULATIONS AND TEST RESULTS REQUIRED BY ACI 318-14 CHAPTER 26
  - TEST RESULTS OF TOTAL CHLORIDE CONTENT
  - INFORMATION ON CONCRETE MATERIALS AS PER ACI 301-14 SECTION 26.4 TEST RESULTS PER ASTM C33, INCLUDING THE CLEANNESS VALUE, SAND EQUIVALENT, AND
  - ALKALI-SILICA REACTIVITY (ASR) POTENTIAL AND MITIGATION, IF REQUIRED. MILL CERTIFICATE FOR THE CEMENT INDICATING THE SOURCE OF THE CEMENT AND COMPLIANCE WITH THE PROJECT SPECIFICATION. MILL ANALYSIS FOR SUPPLEMENTARY CEMENTITIOUS MATERIALS (INCLUDING FLY ASH AND
  - SLAG CEMENT) AND AGGREGATES FROM THE MANUFACTURER. CERTIFICATION BY THE MANUFACTURERS THAT THE ADMIXTURES CONFORM TO THE SPECIFIED STANDARDS. WHETHER MIX IS APPROPRIATE FOR PUMPING.
- THERMAL CONTROL PLAN, INCLUDING HOT WEATHER AND COLD WEATHER PLACEMENT. STEEL REINFORCEMENT SHOP DRAWINGS - PLACING DRAWINGS THAT DETAIL FABRICATION, BENDING, AND PLACEMENT OF REINFORCEMENT.
- 28-DAY CONCRETE ACCEPTANCE TEST REPORT AS REQUIRED BY ACI 318-14 SECTION 26.13.2

1

#### POST-INSTALLED REBAR, ANCHORS, AND FASTENERS

THE PRODUCTS BELOW ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE AS SHOWN IN THE DETAILS. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR PRODUCT INSTALLATION TRAINING AND A LETTER SHALL BE SUBMITTED TO THE ENGINEER OF RECORD INDICATING THAT TRAINING HAS TAKEN PLACE. REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED BELOW MAY BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD FOR REVIEW. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT PERFORMANCE VALUES OF THE DESIGN BASIS PRODUCT.

FOR ANCHORING INTO CONCRETE:

- MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE: SCREW ANCHORS
  - SIMPSON STRONG-TIE TITEN-HD (ICC-ES ESR-2713) DEWALT SCREW-BOLT+ (ICC-ES ESR-3889)
  - HILTI KWIK HUS EZ SCREW ANCHORS (ICC-ES ESR-3027)
  - EXPANSION ANCHORS SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC-ES ESR-3037)
  - DEWALT POWER-STUD+ SD2 (ICC-ES ESR-2502)
  - HILTI KWIK TZ (ICC-ES ESR-1917)
  - UNDERCUT ANCHORS SIMPSON STRONG-TIE TORQ-CUT (ICC-ES ESR-2705)
  - DEWALT ATOMIC+ UNDERCUT (ICC-ES ESR-3067) HILTI HDA UNDERCUT (ICC-ES ESR-1546)

ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN BOND STRENGTH HAS BEEN BASED ON CRACKED CONCRETE, ACI 355.4 TEMPERATURE CATEGORY B, AND INSTALLATIONS INTO DRY HOLES DRILLED USING A HAMMER DRILL INTO CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-14 17.8.2.2 WHERE INDICATED ON THE CONTRACT DOCUMENTS. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-14 17.8.2.4. PRE-APPROVED PRODUCTS INCLUDE:

- SIMPSON STRONG-TIE SET-3G (IAPMO-UES ER-4057) SIMPSON STRONG-TIE AT-XP (IAPMO-UES ER-263)
- DEWALT PURE 110 + (ICC-ES ESR-3298)
- DEWALT AC200+ (ICC-ES ESR-4027)
- HILTI HIT-HY 200-R (ICC-ES ESR-3187)
- HILTI HIT-HY 200-A (ICC-ES ESR-3187)
- POWDER-POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE: SIMPSON STRONG-TIE GAS ACTUATED PINS (ICC-ES ESR-2811)
  - SIMPSON STRONG-TIE POWDER ACTUATED PINS (ICC-ES ESR-2138)
  - DEWALT GAS ACTUATED FASTENERS (ICC-ES ESR-3275) DEWALT POWDER ACTUATED FASTENERS (ICC-ES ESR-2024)
  - HILTI X-U (ICC-ES ESR-2269)

FOR ANCHORING INTO SOLID GROUTED CONCRETE MASONRY:

- MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
  - SCREW ANCHORS SIMPSON STRONG-TIE TITEN-HD (ICC-ES ESR-1056)
  - DEWALT SCREW-BOLT+ (ICC-ES ESR-4042)
  - EXPANSION ANCHORS
  - SIMPSON STRONG-TIE STRONG-BOLT 2 (IAPMO-UES ER-240) DEWALT POWER-STUD+ SD1 (ICC-ES ESR-2966)
  - e. HILTI KWIK BOLT-3 (ICC-ES ESR-1385)
- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED PRODUCTS INCLUDE:
  - SIMPSON STRONG-TIE AT-XP (IAPMO-UES ER-263)
  - SIMPSON STRONG-TIE SET-XP (IAPMO-UES ER-2508) DEWALT AC100+ GOLD (ICC-ES ESR-3200)
  - HILTI HIT-HY 70 (ICC-ES ESR-2682)
- POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
  - SIMPSON STRONG-TIE GAS ACTUATED PINS (ICC-ES ESR-2811)
  - SIMPSON STRONG-TIE POWDER ACTUATED PINS (ICC-ES ESR-2138) DEWALT GAS ACTUATED FASTENERS (ICC-ES ESR-3275)
  - DEWALT POWDER ACTUATED FASTENERS (ICC-ES ESR-2024)
  - e. HILTI X-U (ICC-ES ESR-2269)

FOR ANCHORING INTO HOLLOW CONCRETE MASONRY:

MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED

PRODUCTS INCLUDE: a. SIMPSON STRONG-TIE TITEN-HD (ICC-ES ESR-1056)

ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MFR.

- PRE-APPROVED PRODUCTS INCLUDE: a. SIMPSON STRONG-TIE SET-XP (ICC-ES ESR-2508)
  - DEWALT AC100+ GOLD (ICC-ES ESR-3200)
- POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED
- PRODUCTS INCLUDE: SIMPSON STRONG-TIE GAS ACTUATED PINS (ICC-ES ESR-2811)
- SIMPSON STRONG-TIE POWDER ACTUATED PINS (ICC-ES ESR-2138)
- c. DEWALT GAS ACTUATED FASTENERS (ICC-ES ESR-3275)

FOR FASTENING INTO STEEL:

POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED

- PRODUCTS INCLUDE:
- SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811) SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
- DEWALT GAS ACTUATED FASTENERS (ICC-ES ESR-3275)
- DEWALT POWDER ACTUATED FASTENERS (ICC-ES ESR-2024)
- HILTI X-U (ICC-ES ESR-2269)

# ENGINEERING

601 EAST 69th STREET SAVANNAH, GA 31405 (912) 590-0542 SAPPSTRUCTURAL.COM



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# ROSE ARCHITECTS

# CIRQUE DAIQUIRI BAR & GRILL

#### 2302 BULL STREET SAVANNAH, GA 31401

	NOTEO
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DATE	01/17/24
PROJECT NO.	22.269

STRUCTURAL NOTES

#### STRUCTURAL STEEL FRAMING

- 1. ALL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO THE APPLICABLE STRUCTURAL STEEL CODES AND STANDARDS:
  - AISC 303-16 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES а.
  - AISC 341-16 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS AISC 360-16 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
- 2. ALL STEEL FABRICATION AND ERECTION SHALL BE PERFORMED BY AN APPROVED FABRICATOR AND ERECTOR
- SUCH THAT QUALITY ASSURANCE INSPECTIONS MAY BE WAIVED AS STATED IN AISC 360 CHAPTER N7. MATERIAL REQUIREMENTS FOR STRUCTURAL SHAPES AND PLATES:

STRUCTURAL SHAPES AN	ID PLATES
SHAPE SERIES	ASTM DESIGNATIO
L	ASTM A36
PLATES & BARS	ASTM A36

#### 4. MATERIAL REQUIREMENTS FOR STRUCTURAL FASTENERS AND WELDING:

STRUCTURAL FASTENERS AND WELDING			
FASTNER TYPE	ASTM DESIGNATION		
HIGH-STRENGTH BOLTS	ASTM A325		
COMMON BOLTS	ASTM A307, GR. A		
NUTS	ASTM A563		
WASHERS	ASTM F436		
DIRECT-TENSION-INDICATOR WASHERS	ASTM F959		
THREADED RODS	ASTM A36		
HEADED STUD ANCHORS	ASTM A108		
ANCHOR RODS	ASTM F1554, GR. 36		
WELDING ELECTRODES	AWS D1.1, E70 SERIES		

5. STEEL COATING REQUIREMENTS:

- a. SHOP PAINT ALL STEEL SURFACES WITH FABRICATOR'S STANDARD RUST-INHIBITING PRIMER, EXCEPT AT SURFACES ENCASED IN CONCRETE, SURFACES TO RECEIVE FIREPROOFING, TOP FLANGES OF BEAMS TO RECEIVE HEADED STUDS, AND FAYING SURFACES OF BOLTED CONNECTIONS.
- b. AFTER INSTALLATION, PROMPTLY CLEAN, PREPARE, AND REPRIME FIELD CONNECTIONS, RUST SPOTS, AND ABRADED SURFACES WITH A PRIMER OF SAME TYPE AS SHOP PRIMER AFTER SURFACE PREPARATION PER SSPC-SP2 (HAND-TOOL CLEANING) OR SSPC-SP3 (POWER-TOOL CLEANING). c. ALL EXTERIOR ELEMENTS AND THOSE ELEMENTS NOTED TO BE GALVANIZED SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER SANDBLAST CLEANING PER SSPC-SP10. USE
- HOT-DIPPED GALVANIZED BOLTS, GALVANIZED HARDENED WASHERS, AND GALVANIZED HEAVY HEX NUTS FOR BOLTING OF GALVANIZED ITEMS. d. REPAIR DAMAGED GALVANIZED COATINGS ON GALVANIZED ITEMS WITH GALVANIZED REPAIR PAINT
- ACCORDING TO ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS. 6. ALL BOLTS SHALL BE 3/-INCH DIAMETER MINIMUM HIGH-STRENGTH BOLTS TO BE SNUG TIGHTENED UNLESS NOTED OTHERWISE. IF BOLTS ARE REQUIRED TO BE PRETENSIONED, DESIGN TORQUE SHALL BE DEVELOPED USING DIRECT-TENSION-INDICATOR WASHERS.

# **ROUGH CARPENTRY**

- 1 SPECIFICATION FOR WOOD CONSTRUCTION (NDS). 2. TEMPORARY BRACING) DURING CONSTRUCTION AS A RESULT OF CONSTRUCTION METHODS AND SEQUENCES. WOOD FRAMING MATERIALS: 3.
  - DIMENSIONAL LUMBER SHALL BE #2 SOUTHERN YELLOW PINE. а. b.
  - WEYERHAEUSER TRUS JOIST. TRUS JOIST WITH THE FOLLOWING GRADES:
  - HEADER AND BEAM SIZES = 2.0E GRADE COLUMN AND POST SIZES = 1.8E GRADE
    - WEYERHAEUSER TRUS JOIST WITH THE FOLLOWING GRADES:

HEADER AND BEAM SIZES = 1.55E GRADE COLUMN AND POST SIZES = 1.3E GRADE WOOD I-JOISTS SHALL BE TJI JOISTS MANUFACTURED BY WEYERHAEUSER TRUST JOIST.

- e AWPA C2 AND ASTM D1760 FOR PRESSURE TREATMENT OF TIMBER PRODUCTS. MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWPA STD. M4).
- SHALL BE LIMITED TO ½ OF THE NARROW FACE DIMENSIONS. LOCATION, NUMBER, AND DIMENSIONS OF FRAMING MEMBERS SHOW GENERAL ARRANGEMENT ONLY. ACTUAL 8. SPANS, SPACINGS, ETC. SHALL BE DETERMINED FROM ARCHITECTURAL DETAILS.
- NON-STRUCTURAL FRAMING AND TRIM. 10. SPACING OF 8 FEET IN BETWEEN.
- ALL ENGINEERED WOOD PRODUCTS SHALL BE BRIDGED, BLOCKED, AND BRACED IN CONFORMANCE WITH THE 11. MANUFACTURERS RECOMMENDATION.
- WALL SHEATHING JOINTS WITH SOLID WOOD BLOCKING, UNLESS NOTED OTHERWISE. 13.

12.

17

- NO CUTS, HOLES, OR COPES IN STRUCTURAL WOOD FRAMING SHALL BE PERMITTED WITHOUT PRIOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER AND ARCHITECT.
- AND WOOD SCREWS SHALL BE AS FOLLOWS:

#### SCREW YIELD STRENGTH

SCREW DIAMETER	SCREW TYPE
#6 (0.138 IN.)	WOOD SCREW
#7 (0.151 IN.)	WOOD SCREW
#8 (0.164 IN.)	WOOD SCREW
#9 (0.177 IN.)	WOOD SCREW
#10 (0.190 IN.)	WOOD SCREW
#12 (0.216 IN.)	WOOD SCREW
#14 (0.246 IN.)	WOOD SCREW
<sup>1</sup> ⁄ <sub>4</sub> IN.	LAG SCREW
<sup>5</sup> ⁄ <sub>16</sub> IN.	LAG SCREW
3/8 IN. AND GREATER	LAG SCREW

15. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUG TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER

60 KSI 45 KSI

WASHERS. 16. LAG SCREWS SHALL BE BORED PER NDS 12.1.4 ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIP GALVANIZED IN PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOODS. ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS UNLESS NOTED OR DETAILED OTHERWISE MEETING ASTM F1667. HOLES SHALL BE PRE-DRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILS SHALL HAVE THE MINIMUM PROPERTIES SPECIFIED IN THE TABLE BELOW.

NAIL YIELD STR	ENGTH
NAIL SIZE	YIELD STRENGTH
6d (0.133 IN. x 2 IN.)	100 KSI
8d (0.131 IN. x 2 <sup>1</sup> / <sub>2</sub> IN.)	90 KSI
10d (0.148 IN. x 3 IN.)	90 KSI
12d (0.148 IN. x 3¼ IN.)	90 KSI
16d (0.162 IN. x 3½ IN.)	80 KSI
20d (0.192 IN. x 4 IN.)	80 KSI

PROVIDE DOUBLE JOISTS OR SOLID BLOCKING AT 24" O.C. UNDER ALL PARTITIONS AND TO SUPPORT 19. CONCENTRATED LOADS FROM FRAMING ABOVE, UNLESS NOTED OTHERWISE. CUTTING AND NOTCHING OF SAWN LUMBER JOISTS, SAWN LUMBER RAFTERS AND STUDS SHALL BE IN 20. CONFORMANCE WITH THE FOLLOWING CRITERIA: a. JOISTS - NOTCHES AT THE ENDS OF JOISTS SHALL NOT EXCEED 1/5TH THE JOIST DEPTH. HOLES

- IN THE MIDDLE THIRD OF THE SPAN.
- THEIR DIAMETER SHALL NOT EXCEED 1/4TH THE DEPTH OF THE MEMBER. C.

THE MANUFACTURER.

ALL WOOD FRAMING SHALL COMPLY WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN

ALL WOOD FRAMING MEMBERS ARE DESIGNED TO ACT AS A SYSTEM ONCE CONSTRUCTION IS COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SAFETY AND STABILITY OF WOOD FRAMING SYSTEMS (I.E.

LAMINATED VENEER LUMBER (LVL) SHALL BE MICROLLAM LVL GRADE 2.0E MANUFACTURED BY

PARALLEL STRAND LUMBER (PSL) SHALL BE PARALLAM PSL MANUFACTURERED BY WEYERHAEUSER

LAMINATED STRAND LUMBER (LSL) SHALL BE TIMBERSTRAND LSL MANUFACTURERED BY

ALL WOOD FRAMING MATERIAL SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT. ALL LUMBER EXPOSED TO EXTERIOR ENVIRONMENT OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED TO A MINIMUM RETENTION OF 0.25 lbs. OF ACQ PER CUBIC FOOT OF WOOD, AND EACH PIECE SHALL BEAR THE THIRD PARTY QUALITY MARK, "ABOVE GRADE USE". ALL LUMBER IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED TO A MINIMUM RETENTION OF 0.40 lbs. OF ACQ PER CUBIC FOOT OF WOOD, AND EACH PIECE SHALL BEAR THE THIRD PARTY QUALITY MARK, "GROUND CONTACT USE". REFERENCE STANDARD

WHERE POSSIBLE ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A

THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOAD BEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOAD BEARING FRAMING SHALL BE LIMITED TO LESS THAN ½ OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) AND THICKER LUMBER

SEE ARCHITECTURAL PLANS AND DETAILS FOR EDGE SECTIONS, HEADER AND LINTEL LOCATIONS, AND ALL

FOR ALL JOISTS AND RAFTERS, PROVIDE FULL-DEPTH BLOCKING AT ENDS, AT MIDSPAN, AND AT A MAXIMUM

LOAD BEARING STUD WALLS SHALL BE CONTINUOUSLY BRIDGED AT MID-HEIGHT AND UNSUPPORTED PLYWOOD

ALL BOLTS, CARRIAGE BOLTS, LAG SCREWS, EXPANSION BOLTS AND EPOXY BOLTS SHALL BE INSTALLED WITH STANDARD CUT WASHERS UNDER THE BOLT HEADS AND NUTS THAT BEAR DIRECTLY ON THE WOOD. ALL NUTS

SHALL BE TIGHTENED AT THE TIME OF INSTALLATION AND RE-TIGHTENED IF NECESSARY, DUE TO WOOD SHRINKAGE, PRIOR TO CLOSE-IN OR A THE COMPLETION OF THE PROJECT. BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. WOOD SCREWS SHALL CONFORM TO B18.6.1. ALL BOLTS SHALL CONFORM TO ASTM A307 GRADE A UNLESS NOTED OTHERWISE. THE MINIMUM STRENGTHS FOR LAG SCREWS

## WOOD STRUCTURAL PANELS

ALL WOOD STRUCTURAL PANELS SHALL BE APA TRADEMARKED STRUCTURAL-USE PANELS QUALIFIED AND MANUFACTURED IN ACCORDANCE WITH APA PRP-108 (PERFORMANCE STANDARDS AND QUALIFICATION POLICY FOR STRUCTURAL-USE PANELS) AND U.S. DEPARTMENT OF COMMERCE VOLUNTARY PRODUCT STANDARDS PS 1-09 (STRUCTURAL PLYWOOD) AND PS 2-04 (PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS) AND SHALL BE IDENTIFIED BY THE MARK OF AN APPROVED TESTING AND GRADING AGENCY.

ROOF     ½     N.     OSB/PLYWOOD     EXP. 1     SHEATHING $^{32}_{16}$	WOOD STRUCTURAL PANELS					
	USAGE	THICKNESS	CONSTRUCTION			SPAN RATING
	ROOF	½ IN.	OSB/PLYWOOD	EXP. 1	SHEATHING	<sup>32</sup> /16
EXT. WALL <sup>1</sup> / <sub>16</sub> IN. OSB/PLYWOOD EXP. 1 SHEATHING <sup>24</sup> / <sub>16</sub>	EXT. WALL	7∕ <sub>16</sub> IN.	OSB/PLYWOOD	EXP. 1	SHEATHING	<sup>24</sup> /16

2. INSTALL ALL PANELS AT THE ROOF WITH THE LONG DIMENSIONS OF THE PANEL ACROSS SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER PANEL END JOINTS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER

PROVIDE BLOCKING AT UNSUPPORTED PANEL EDGES AS FOLLOWS a. ROOFS - FULLY BLOCKED; WHERE BLOCKING IS NOT SPECIFICALLY REQUIRED FOR THE ROOF SHEATHING, PLY CLIPS OR TONGUE AND GROOVE PLYWOOD SHALL BE USED.

b. WALLS - FULLY BLOCKED ALL NAILS FOR PANEL ATTACHMENT SHALL NOT BE OVERDRIVEN.

WHERE EITHER 2" OR 2 1/2" FASTENER SPACINGS ARE USED FOR WOOD STRUCTURAL PANELS USED AT ROOF OR FLOOR, THE FRAMING MEMBER AT THE ADJOINING PANEL SHALL BE 3" NOMINAL WIDTH AND THE NAILS AT PANEL EDGES SHALL BE STAGGERED IN TWO LINES.

NAILS AT ABUTTING PANEL EDGES MUST PENETRATE THE SAME PIECE OF FRAMING OR BLOCKING

YIELD STRENGTH 100 KSI 90 KSI 90 KSI 90 KSI 80 KSI 80 KSI 70 KSI 70 KSI

BORED IN JOISTS SHALL NOT BE WITHIN 21/2 INCHES OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED 1/4TH THE DEPTH OF THE JOIST. NOTCHES IN THE TOP OR BOTTOM OF THE JOISTS SHALL NOT EXCEED 1/6TH THE DEPTH AND SHALL NOT BE LOCATED

RAFTERS - NOTCHING AT THE ENDS OF RAFTERS OR CEILING JOISTS SHALL NOT EXCEED 1/5TH THE DEPTH. NOTCHES IN THE TOP OR BOTTOM OF THE RAFTER OR CEILING JOIST SHALL NOT EXCEED 1/6TH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE 1/3RD OF THE SPAN, EXCEPT THAT A NOTCH NOT EXCEEDING 1/3RD OF THE DEPTH IS PERMITTED IN THE TOP OF THE RAFTER OR CEILING JOIST NOT FURTHER FROM THE FACE OF THE SUPPORT THAN THE DEPTH OF THE MEMBER. HOLES BORED IN RAFTERS OR CEILING JOISTS SHALL NOT BE 21/2 INCHES OF THE TOP AND BOTTOM AND

WALL STUDS - A MAXIMUM OF 21/4 -INCH DIAMETER NEATLY BORED HOLE MAY BE PLACED IN THE CENTER OF ALL BEARING 2x6 STUDS WITH NO ADDITIONAL REINFORCEMENT REQUIRED. 21. CUTTING AND NOTCHING OF ENGINEERED WOOD PRODUCTS SHALL ADHERE TO THE ALLOWANCES PROVIDED BY



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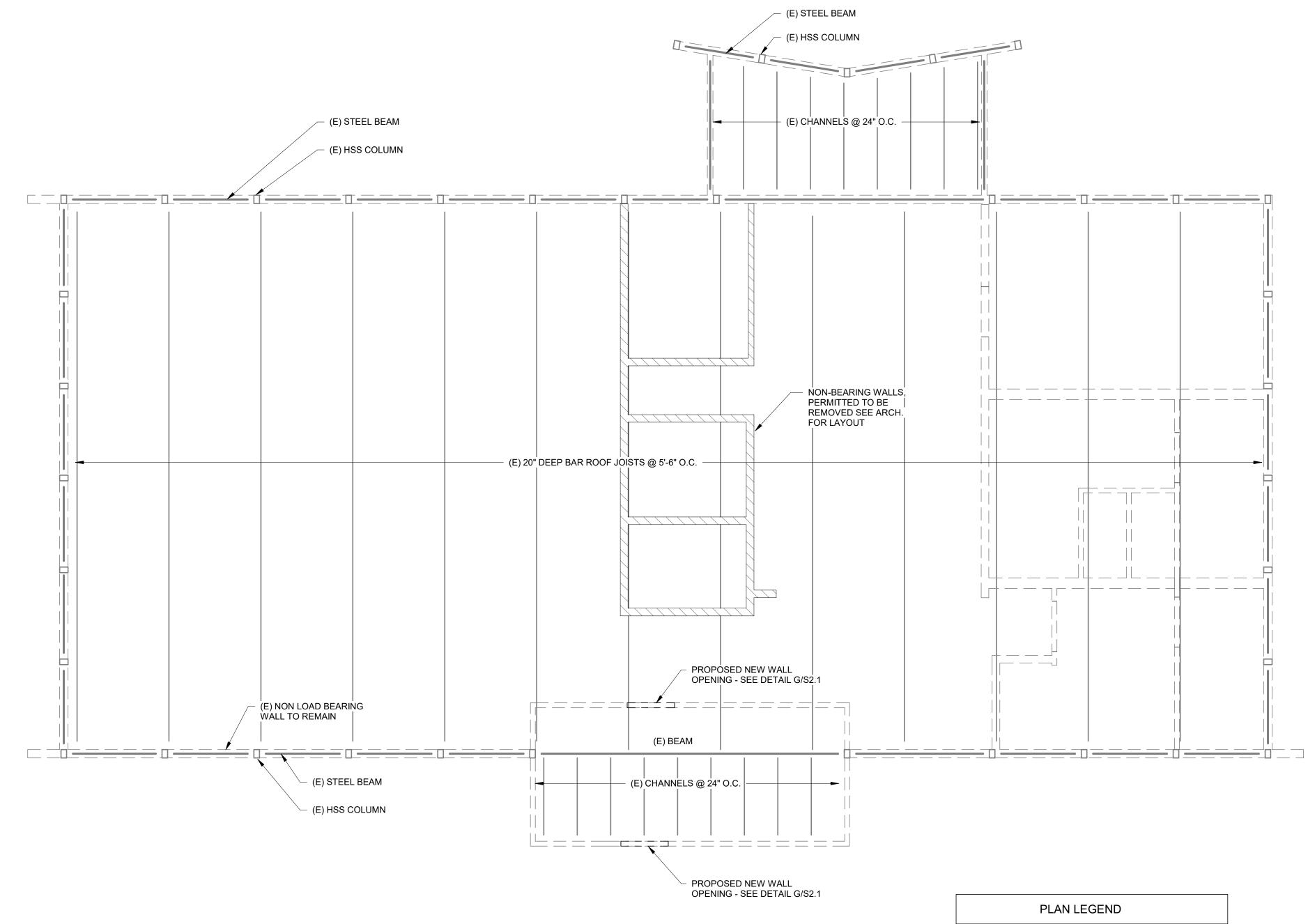
CIRQUE DAIQUIRI BAR & GRILL

#### 2302 BULL STREET SAVANNAH, GA 31401

PROJECT NO.	22.269
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	NOTES

SIRUCIURAL NUIES

S0.2



PLAN LEGEND
NON-BEARING WALL PERMITTED TO BE REMOVED
EXISTING WALL
 EXISTING JOIST/RAFTER - SIZE AS MARKED
 EXISTING BEAM/GIRDER - SIZE AS MARKED
EXISTING HSS COLUMN

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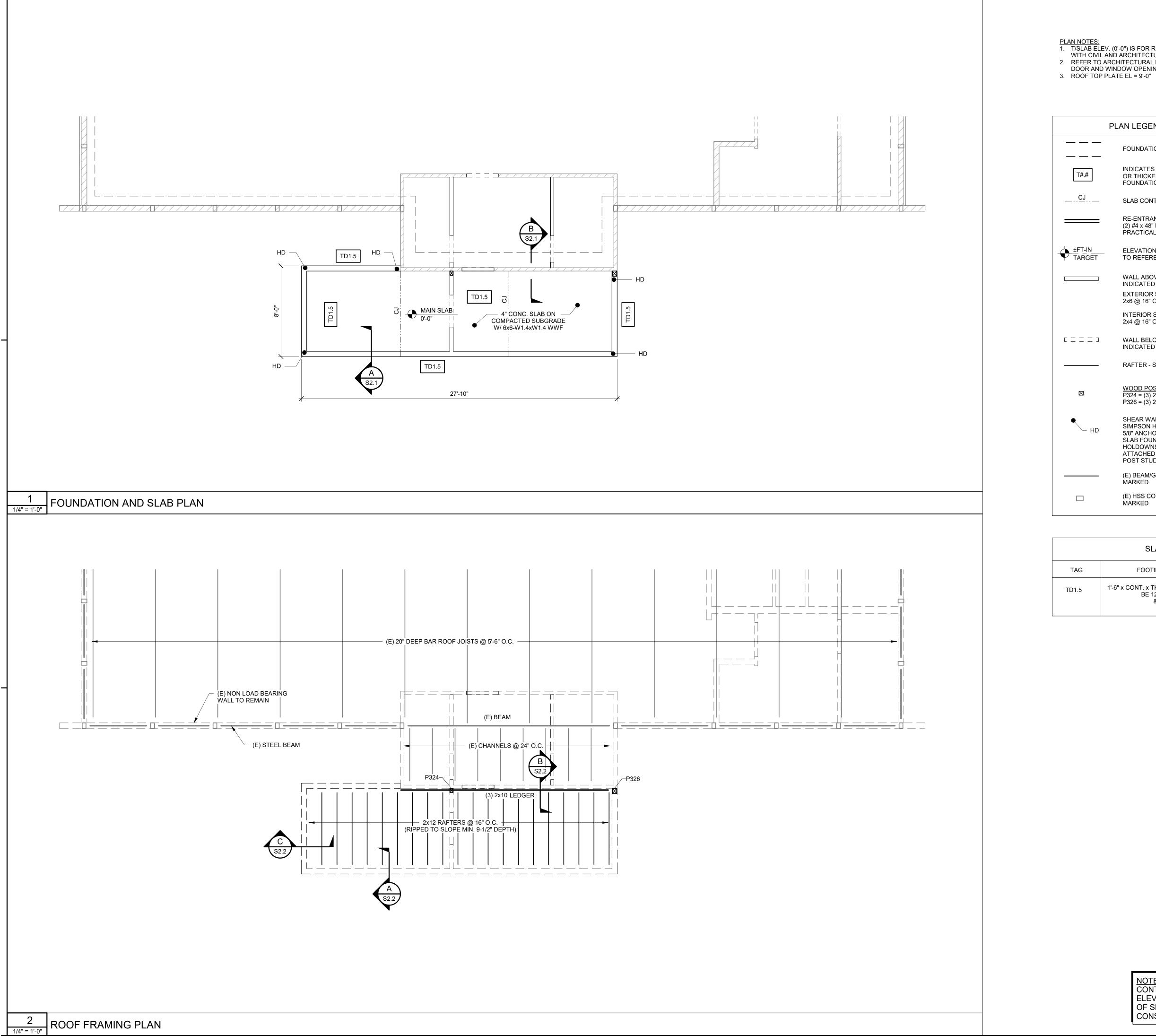
2302 BULL STREET SAVANNAH, GA 31401

<b>EXISTING WALL</b>	
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EXISTING WALL REMOVAL PLAN

S1.1

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND FIELD CONDITIONS PRIOR TO THE PREPARATION OF SHOP DRAWINGS, FABRICATION OF COMPONENTS, OR CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER



PLAN NOTES: 1. T/SLAB ELEV. (0'-0") IS FOR REFERENCE ONLY. COORDINATE ELEVATION DATUM WITH CIVIL AND ARCHITECTURAL DRAWINGS. 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS, DOOR AND WINDOW OPENING LOCATIONS NOT SHOWN.

PLAN LEGEND

FOUNDATION EXTENTS

INDICATES TURNDOWN EDGE OR THICKENED SLAB FOUNDATION - SEE SCHEDULE

SLAB CONTROL JOINT

RE-ENTRANT CORNER BARS: (2) #4 x 48" LONG AS CLOSE AS PRACTICAL TO CORNERS

ELEVATION INDICATOR RELATIVE TO REFERENCE ELEV.

WALL ABOVE - SIZE AS INDICATED EXTERIOR STUDS:

2x6 @ 16" O.C.

INTERIOR STUDS: 2x4 @ 16" O.C. U.N.O. BY ARCH.

WALL BELOW - SIZE AS INDICATED

RAFTER - SIZE AS NOTED

WOOD POST SCHEDULE: P324 = (3) 2x4 P326 = (3) 2x6

SHEAR WALL HOLDOWN -SIMPSON HDU2-SDS2.5 WITH 5/8" ANCHOR ROD CAST INTO SLAB FOUNDATION (EMBED = 6") HOLDOWNS SHALL BE ATTACHED TO (2)2x6 MIN. END POST STUDS.

(E) BEAM/GIRDER SIZE AS MARKED

(E) HSS COLUMN - SIZE AS MARKED

#### SLAB FOUNDATION SCHEDULE

FOOTING SIZE

 1'-6" x CONT. x THICK. FOR B/FTG. TO
 BOT: (2)#5

 BE 12" BELOW GRADE
 SIDE: (1)#5 CONT.

 & 28" MIN.
 TOP : (1)#5 CONT.

 BENT DOWEL: #5 @ 18" O.C.

REINFORCEMENT

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND FIELD CONDITIONS PRIOR TO THE PREPARATION OF SHOP DRAWINGS, FABRICATION OF COMPONENTS, OR CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER



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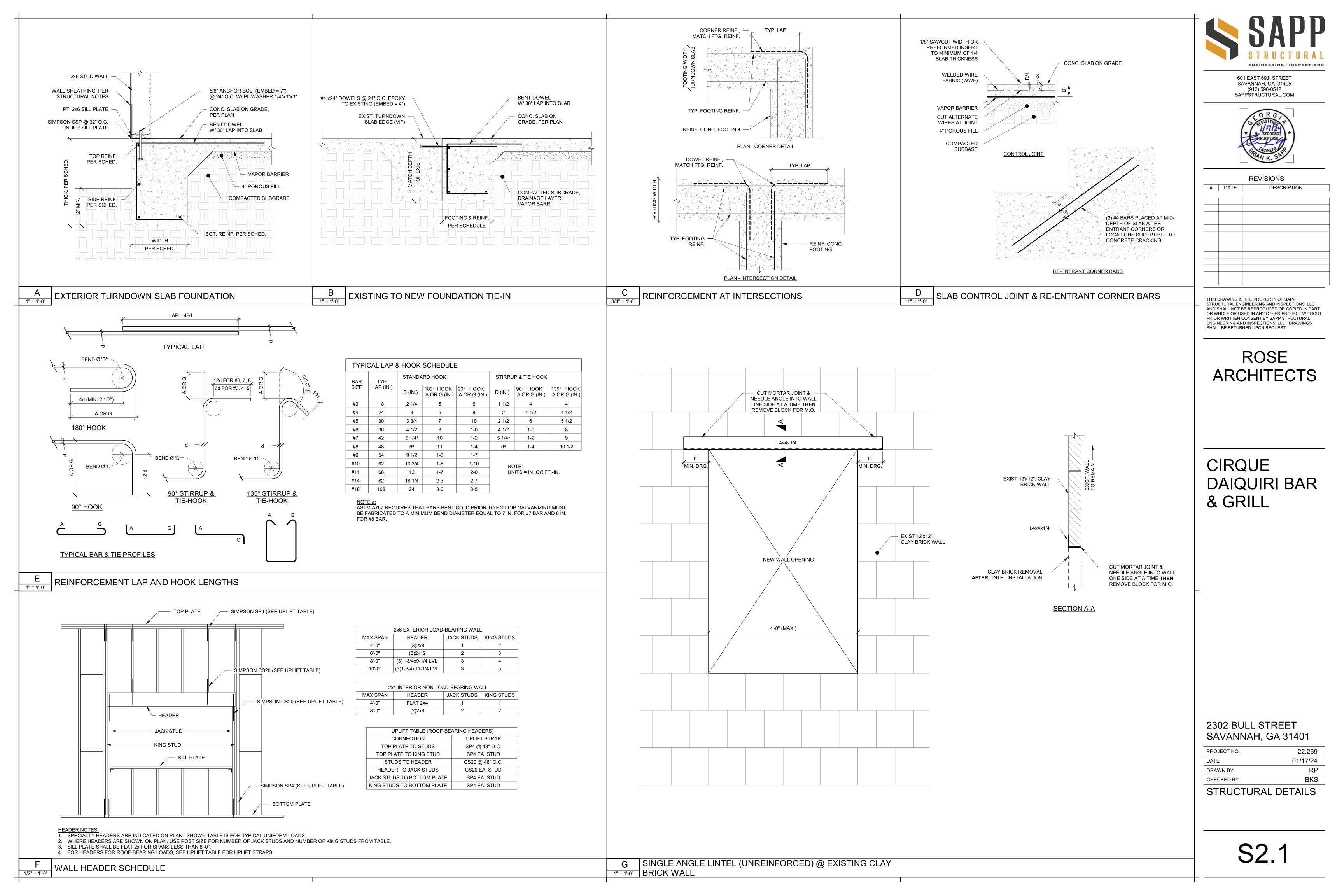
# CIRQUE DAIQUIRI BAR & GRILL

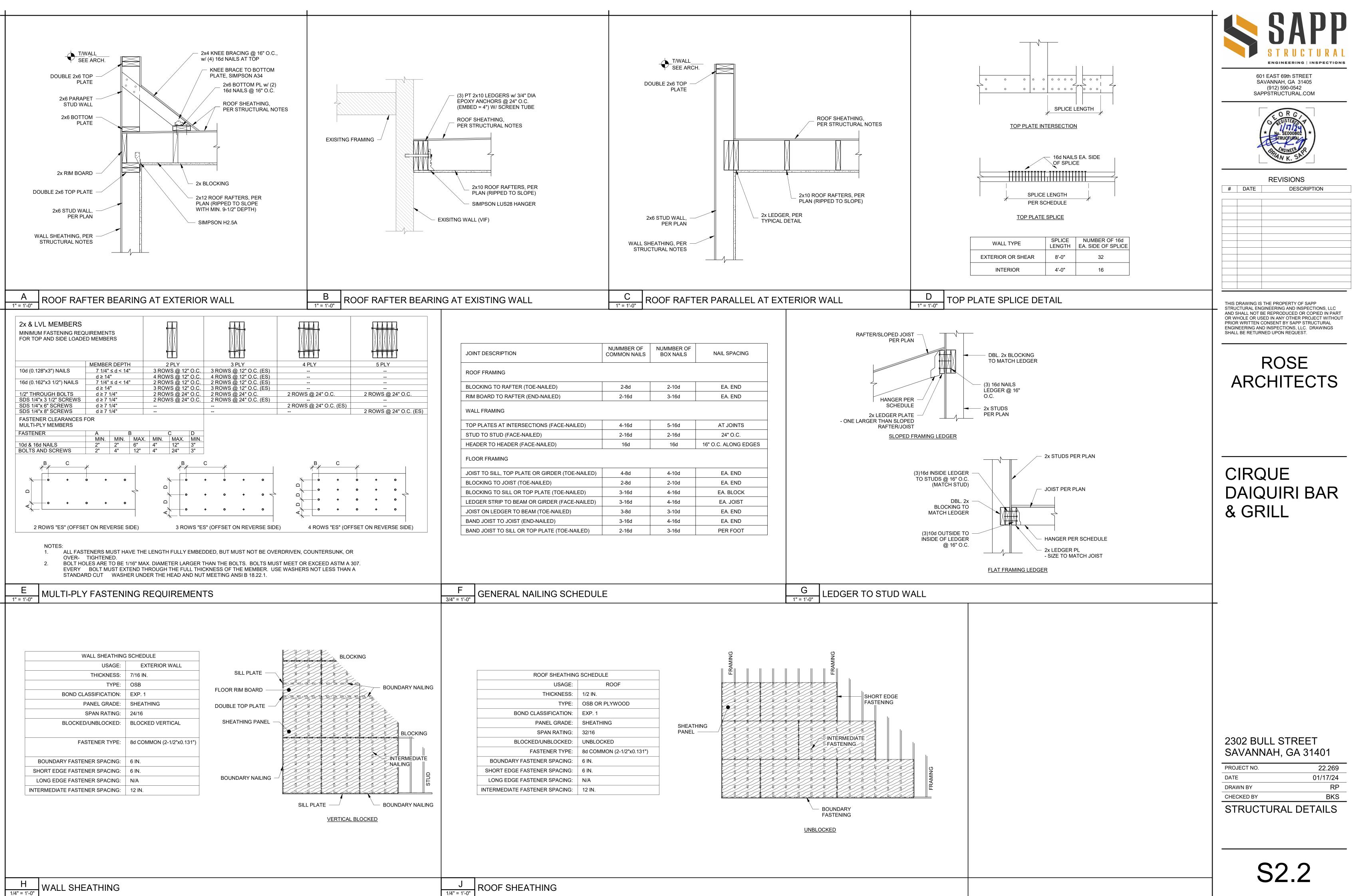
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ADDITION STRUCTURAL		

ADDITION STRUCTURAL PLANS

# S1.2





ROOF SHEATHING	
USAGE:	ROOF
THICKNESS:	1/2 IN.
TYPE:	OSB OR PLYWOOD
BOND CLASSIFICATION:	EXP. 1
PANEL GRADE:	SHEATHING
SPAN RATING:	32/16
BLOCKED/UNBLOCKED:	UNBLOCKED
FASTENER TYPE:	8d COMMON (2-1/2"x0.131")
BOUNDARY FASTENER SPACING:	6 IN.
SHORT EDGE FASTENER SPACING:	6 IN.
LONG EDGE FASTENER SPACING:	N/A
INTERMEDIATE FASTENER SPACING:	12 IN.

			ON PLANS	CHWF	₹	CHILLED WATER RETURN	
					_		1
		E NEW CONNEC	CTS TO EXISTING	CHWS	S		2
		DETAIL ON SHE	ET	CD-		CONDENSATE DRAINAGE	3
			DETAIL APPEARS				4
				CWS GWR		CONDENSER WATER SUPPLY GEOTHERMAL WATER RETURN	5
	(1) KEYNOTE			GWR GWS		GEOTHERMAL WATER RETURN GEOTHERMAL WATER SUPPLY	6
	2 CONTINUATIO	ON SYMBOL		GWS HWR		HEATING WATER RETURN	
	Room	AND NUMBER		HWS		HEATING WATER RETORN	
				G-		NATURAL GAS	7 8
	ТТТ итем то ве р	DEMOLISHED		PG-		PROPANE GAS	Ű
				REF-L		REFRIGERANT-LIQUID	9
	AREA NOT IN	CONTRACT			S	REFRIGERANT-SUCTION	10
	2"	PIPE SIZE TA	G (DIAMETER)	REF-H	G	REFRIGERANT-HOT GAS	
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	1/8" / 12" SLOPE	-PIPE SLOPE		CDR-		CONDENSATE RETURN	
		BELOW GROU		CWV	<u></u>	COMBINATION WASTE & VENT	12
	L		ELEVATION TAG	CA-		COMPRESSED AIR	13
	(E)	EXISTING PIF			C	DOMESTIC COLD WATER	14
		PIPING BEING	G DEMOLISHED		——H-CW——	HARD COLD WATER	
	ABBREVI	IATIONS			S-CW	SOFT COLD WATER	15
	ROUND	LWT LE	AVING WATER TEMPERATURE		CF		
NV BV	AIR ADMITTANCE VALVE ABOVE	M/A M	XED AIR AXIMUM		RO	REVERSE OSMOSIS WATER	16
С	ABOVE CEILING	MBH OI	NE THOUSAND BTU PER HOUR		——H——— ——HW 140°——	HOT WATER HOT WATER 140°	17 18
) )D	AREA DRAIN ADDENDUM	MD M	NE THOUSAND CUBIC FEET OTORIZED DAMPER		—HW 140°— - —HWR——	HOT WATER 140°	19
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)	ACCESS PANEL	MIN M	NIMUM			GREASE VENT	21
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3	CATCH BASIN	NO NU	JMBER	OW-		OIL WASTE	25
M.G	CUBIC FEET PER MINUTE CEILING	NTS NO	DRMALLY OPEN DT TO SCALE	PD-		PUMP DISCHARGE	
) V	CLEAN OUT COLD WATER	0 02	XYGEN JTSIDE AIR			SANITARY VENT	26
	DEGREE	ORD O	VERFLOW ROOF DRAIN	SS-		SANITARY SEWER	27
B A	DRY BULB DIAMETER	PIV PO	RESSURE DROP DST INDICATOR VALVE	SHWF	₹	SOLAR HOT WATER RETURN	28 29
V V	DOWN DISTILLED WATER		RESSURE RESSURE REDUCING VALVE	SHW	S	SOLAR HOT WATER SUPPLY	30
ν ΑΤ	EACH ENTERING AIR TEMPERATURE	PSI PC	DUNDS PER SQUARE INCH DUNDS PER SQUARE INCH GAUGE	RD-		STORM DRAINAGE	31 32
EC	ELECTRICAL	PWR PO	DWER	OD-		OVERFLOW STORM DRAINAGE	
VC	EQUIPMENT ELECTRIC WATER COOLER	R/A RI	JCT RISER ETURN AIR	l	PE DROP 4"		33
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;	FEET PER MINUTE FLOOR SINK	SD SM	QUARE FOOT MOKE DAMPER	CHECK VALVE	TRAP P		40
AL	FOOT/FEET GALLON	SM SI	IRFACE MOUNT ANDPIPE	⊺S∎	∭ <b>→</b> _2" M-C		
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PM V	GALLONS PER MINUTE GREASE WASTE		IERMOSTAT EMPERATURE DROP	▶ 2" CIRC		MOSTATIC MIXING	43
} )	WALL HYDRANT HORSE POWER	TDR TF	RENCH DRAIN MPERATURE	CIRCUIT SETTER	EM - 1/2" TN EMER	//V G. THERMOSTATIC	44
G	HEATING	TYP TY	/PICAL				44
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	LOUVER		ALL CLEAN OUT ATER HEATER		TYPE (SEE SCH	HEDULE) – 4" AD-2 – AND TRAP	
	EQUIPMENT AB		NS	- TRAP PRIMER - 4" FD-3P -	"P" - INDICATES PRIMER CONN		49
				DEEP TRAP 4" FD-3			
C CCU	AIR CONDITIONING UNIT AIR COOLING CONDENSING UNIT	ET EWH	EXPANSION TANK ELECTRIC WATER HEATER				
HU S	AIR HANDLING UNIT AIR SEPARATOR	FCU FP	FAN COIL UNIT FIRE PUMP			4" SD-15 - STORM DRAIN	50
	BOILER CHILLER	GI GRV	GREASE INTERCEPTOR GRAVITY ROOF VENTILATOR	HUB DRAIN •—2"HD	ROOF ARE		51
Н Г	COOLING TOWER	HWP	HEATING WATER PUMP	FLOOR SINK 🔤 🔫 3"FS		Y DRAIN - 4000 SF O DRAINS	51 52
JH HWP	CABINET UNIT HEATER CHILLED WATER PUMP	HRU PRV	HEAT RECOVERY UNIT POWER ROOF VENTILATOR	PLUMBING FIXTURE TAGS			
BP C	DOMESTIC WATER BOOSTER PUMP DUCT MOUNTED COIL	RE RTU	RETURN/EXHAUST FAN ROOFTOP UNIT	TYPE (SEE S	SCHEDULE)	<	53
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F DC	EXHAUST FAN ELECTRIC DUCT COIL	UH WH	UNIT HEATER WATER HEATER	WC-1-	H WC-1		54
						$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
				PIPE ACCESSORY	$\mathbf{A}$		55
				4" WCO	Ť_		
					0 * NOT		56
					THIS SHEET ARE 1	<u>E ^</u> TO BE APPLIED TO ALL OTHER DRAWINGS IN S SHOWN ON THIS SHEET MAY OR MAY NOT	57 58

#### PLUMBING GENERAL NOTES

#### JMBING FIXTURES SHALL BE WATER SENSE LABELED PRODUCTS.

IDE AN ACCESS PANEL FOR SHUT-OFF VALVES AND HAMMER ARRESTORS INSTALLED ABOVE D CEILING. E A SINK TAILPIECE IS PROVIDED FOR RECEIVING HVAC DRAINS, ASSOCIATED DRAIN TRAPS BE INSULATED.

DINATE INSTALLATION OF PIPING TO PREVENT CONFLICTS. DULED HEATING CAPACITY FOR WATER HEATERS SHALL BE DELIVERED AT SUPPLIED

PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT D TO THE 2018 INTERNATIONAL PLUMBING CODE WITH ALL APPLICABLE STATE

DMENTS, LOCAL CODES, AND ORDINACES. COF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

TE PIPING AND PLUMBING EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, FORMERS AND OTHER ELECTRICAL EQUIPMENT. RATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN

OVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED. REFER CHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.

IDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, OOF. AIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING

CE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE AS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED. IZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS

ETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, R TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

ALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN LLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH PECIFICATIONS.

TIONS OF PIPING AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND ECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER ES TO AVOID INTERFERENCE IN THE FIELD.

ALL EXPOSED PIPING AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

ONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER. TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL PLUMBING FIXTURES. RACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR

SPECTIONS AS REQUIRED. IDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF ACCEPTANCE.

TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES. ILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. VERIFY EXACT LOCATION AND T ELEVATION IN FIELD BEFORE BEGINNING WORK.

DINATE ALL WORK WITH OTHER TRADES. PING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE HALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES. R PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON THE ED SIDE OF CEILING INSULATION AND HEATED SIDE OF WALL INSULATION. FARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MIN.;

G LARGER THAN 2" SHALL BE SLOPED AT 1/8" PER FOOT MIN. OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.

/IDE INLINE TRAP SEAL DEVICES ON ALL FLOOR DRAINS, UNO. /IDE DRAIN VALVES AT LOW POINTS IN ALL WATER PIPING SYSTEMS.

ATER, VENT, AND GAS PIPING SHALL BE INSTALLED ABOVE THE CEILING, UNO.

OIL, WASTE AND STORM PIPING SHALL BE INSTALLED BELOW THE FLOOR, UNO. IDE CLEANOUTS AT THE BASE OF ALL SOIL, WASTE, VENT AND STORM RISER OVER ONE / IN HEIGHT. ALL WALL CLEANOUTS SHALL BE INSTALLED 18"AFF, UNO.

HYDRANTS SHALL BE MOUNTED 18"AFF, UNO. WALL HYDRANTS SHALL BE IN A LOCKABLE SSED BOX.

IDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS. TE ALL DRAINAGE PIPING AND CLEANOUTS CENTERED IN THE CORRIDORS, UNO. DINATE THE LOCATIONS OF CLEANOUTS WITH FLOOR PATTERN. ALL CLEANOUTS AT THE F CORRIDORS SHALL BE TWO-WAY CLEANOUTS.

ENT TERMINALS SHALL BE LOCATED A MIN. OF 10 FEET FROM ANY DOOR OPENING, ABLE WINDOW, OR FRESH AIR INTAKE.

E MOUNTING HEIGHTS OF FIXTURES CONFLICT WITH FIXTURE HEIGHTS ON THE TECTURAL DRAWINGS, THE HEIGHTS SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL PRECEDENCE.

TRACE SHALL BE APPLIED TO WATER PIPING INSTALLED IN UNCONDITIONED SPACES. RES TRAPS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE FIXTURE OUTLET; VERTICAL NCE SHALL NOT EXCEED 24 INCHES PER IPC 2018, SECTION 1002.1.

INSTALLED IN PLENUM SPACES SHALL MEET ASTM E-84, ASTM E-136, AND UL-723 ARDS FOR FLAME SPREAD AND SMOKE GENERATION. COORDINATE PLENUM LOCATIONS

MECHANICAL CONTRACTOR. RAIN AND HOT WATER SUPPLY TO UNDERCOUNTER DISHWASHERS FROM ADJACENT SINK. /IDE THERMAL MIXING VALVE FOR ALL HAND WASH SINKS AND LAVATORIES. NG MACHINE WASTE SHALL CONNECT TO A STANDPIPE. THE STANDPIPE SHALL NOT

ID LESS THAN 30 INCHES ABOVE THE WEIR OF THE STANDPIPE TRAP PER IPC 2018, SECTION

STIC HOT WATER PIPE CONNECTIONS FOR PUBLIC LAVATORY FAUCETS SHALL BE NO MORE FEET FROM THE RECIRCULATED HOT WATER LOOP FOR MULTIPLE LAVATORIES, AND BE NO MORE THAN 6 INCHES FROM THE RECIRCULATED HOT WATER LOOP FOR A SINGLE ORY PER IECC 2015, SECTION C404.5.1.

STIC WATER PIPING SHALL BE TYPE L COPPER WITH LEAD-FREE JOINTS. CLEANOUTS SHALL BE LOCATED IN LOCKABLE WALL ACCESS BOX.

UMBING EQUIPMENT AND VALVES LOCATED ABOVE CEILINGS SHALL BE IDENTIFIED WITH AN AVED MARKER PERMANENTLY ATTACHED TO THE CEILING GRID.

E GENERATORS ARE INSTALLED, THE PLUMBING CONTRACTOR SHALL BECOME FAMILIAR THE GENERATOR MANUFACTURER'S NATURAL GAS AND/OR PROPANE DESIGN GUIDE AND SIZE AND INSTALL ALL PIPING CONNECTIONS PER THE MANUFACTURER'S INSTRUCTIONS. FACTURER'S REPRESENTATIVE SHALL REVIEW AND APPROVE SIZING AND INSTALLATION TO GENERATOR CONNECTION AND STARTUP.

BING CONNECTIONS TO KITCHEN EQUIPMENT: THE PLUMBING CONTRACTOR SHALL DINATE WITH THE KITCHEN EQUIPMENT DRAWINGS AND KITCHEN EQUIPMENT ROUGH-IN FOR THE EXACT LOCATIONS, ROUGH-IN HEIGHT, CONNECTION SIZES, ETC. IN THE KITCHEN. LUMBING CONTRACTOR SHALL PROVIDE THE SUPPLY VALVES, P-TRAPS, DRAINS, INDIRECT INGS, ETC. TO PROVIDE A COMPLETE WORKING KITCHEN SYSTEM. FINAL CONNECTIONS TO TCHEN EQUIPMENT SHALL BE BY THE PLUMBING CONTRACTOR.

HEN WASTE PIPING WHERE 140°F OR WARMER LIQUIDS ARE DISCHARGED MUST BE CAST

OVE ALL UNUSED PIPING AND ACCESSORIES.

ONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL ING CONDITIONS FOR PLUMBING SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE MITY OF TENANT SPACE.

E FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION S FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. AL DRAINS AT COMPLETION OF CONSTRUCTION.

ONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE RATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY PATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, BING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW ECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.

E DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES E UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS. VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.

UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE. AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.

						DC	MESTIC FIXTU	RE SCHI	EDULE		
					TRIM				COLD	HOT	
ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	MANUFACTURER	MODEL	ТҮРЕ	WASTE ROUGH-IN PIPE SIZE		UGH-IN ROUGH-IN	SPECIFICATION
HB/E	EXTERIOR WALL HYDRANT	WOODFORD	B65				MANUAL		3/4"		NON-FREEZE TYPE WALL HYDRANT, IN LOCKABLE RECESSED BOX. PROVIDE SHUT OFF VALVE IN ACCESSIBLE LOCATION.
HB/I	HOSE BIBB	WOODFORD	B24				MANUAL		3/4"		ANTI-SIPHON INTERIOR HOSE BIBB, 3/4" FEMALE HOSE COUPLING THREAD, IN LOCKABLE RECESSED BOX. PROVIDE SHUTOFF VALVE IN ACCESSIBLE LOCATION.
HB/R	ROOF HYDRANT	WOODFORD	RHY2-MS				MANUAL		3/4"		NON-FREEZE TYPE ROOF HYDRANT, PROVIDE SHUT OFF VALVE IN ACCESSIBLE LOCATION.
L-1	LAVATORY	AMERICAN STANDARD	LUCERNE	WHITE VITREOUS CHINA	ZURN	Z81000-XL	SINGLE HANDLE FAUCET, 4" CENTERS, CHROME PLATED	2"	1/2"		WALL HUNG WITH BACKSPLASH, VITREOUS CHINA, NOMINAL 20-1/2"x18-1/4", FAUCET HOLES ON 4" CENTERS. FIXTURE EQUALS BY KOHLER, SLOAN & ZURN. FAUCET EQUALS BY CHICAGO & T&S BRASS. DRAIN & P-TRAP BY MCGUIRE, ZURN OR WATTS. SUPPLIES BY MCGUIRE, BRASS CRAFT OR WATTS. INSULATION KIT BY MCGUIRE, TRUEBRO OR SKAL-GUARD. CARRIER BY J.R. SMITH, JOSAM OR ZURN.
MS-1	MOP SINK	FIAT	MSB-2424	MOLDED STONE	ZURN	Z1996-SF	VACCUM BREAKER, INTEGRAL STOPS, CHROME PLATED	3"	1/2"		MOLDED STONE, FLOOR MTD, 24"x24". FIXTURE EQUALS BY SWAN & ZURN. FAUCET EQUALS BY FIAT & SWAN. BUMPERGUARDS & HOSE/BRACKET BY FIAT, SWAN OR ZURN. WALL GUARDS BY FIAT OR ZURN.
P-1	ICE MAKER SUPPLY BOX	SIOUX CHIEF	696-RG1010MF	ABS PLASTIC					1/2"		RECESSED ICE MAKER SUPPLY BOX WITH HAMMER ARRESTOR. EQUALS BY OATEY & GUY GRAY.
WC-1	WATER CLOSET - FLOOR - TANK TYPE	AMERICAN STANDARD	CADET	WHITE VITREOUS CHINA	TANK TYPE			3"	1/2"		ELONGATED BOWL WATER CLOSET. 15"RIM HT. FIXTURE EQUALS BY KOHLER, SLOAN & ZURN. SEAT BY PLUMBTECH, BEMIS OR CENTOCO. SUPPLY BY MCGUIRE, ZURN OR WATTS.
WC-1-H	WATER CLOSET - FLOOR - TANK TYPE - ADA	AMERICAN STANDARD	CADET	WHITE VITREOUS CHINA	TANK TYPE			3"	1/2"		ELONGATED BOWL WATER CLOSET. 18"RIM HT. FIXTURE EQUALS BY KOHLER, SLOAN & ZURN. SEAT BY PLUMBTECH, BEMIS OR CENTOCO. SUPPLY BY MCGUIRE, ZURN OR WATTS.

\*COORDINATE ALL FIXTURE, TRIMS & FINISHES W/ARCHITECT.

ID	DESCRIPTION	MANUFACTUR
3"FD	FLOOR DRAIN	WATTS
3"FS	FLOOR SINK	WATTS

#### PLUMBING SHEET INDEX

- P0.0 PLUMBING TITLE SHEET
- P0.1 PLUMBING SPECS & DETAILS
- P1.0 PLUMBING DEMOLITION PLAN
- P1.1 WASTE & VENT PLAN P2.1 HOT & COLD WATER PLAN
- P3.1 PLUMBING ROOF PLAN
- P4.1 PLUMBING RISER DIAGRAMS P4.2 PLUMBING RISER DIAGRAMS

	DRAIN SCHEDULE												
		MATERIAL DE	SCRIPTION	WASTE									
URER	MODEL	DRAIN BODY	STRAINER	PIPE SIZE	SPECIFICATION								
5	FD-100-A	EPOXY COATED CAST IRON	NICKEL BRONZE	3"	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, NO HUB OUTLET.								
,	FS-710	EPOXY COATED CAST IRON		-	8" SQUARE X 6" DEEP SANITARY FLOOR SINK WITH WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON 1/2 GRATE, ALUMINUM DOME BOTTOM STRAINER, AND NO HUB OUTLET.								

DOMESTIC CIRCULATING PUMP SCHEDULE										
		PUN	IP	MOTOR						
		DESIGN								
ID	TYPE	FLOW	HEAD	POWER	REMARKS					
HWC-1	INLINE	2.0 GPM	10.0 FT	0.33 hp	CONNECTED TO WH-1, SEE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA					

	GAS-FIRED WATER HEATER SCHEDULE										
	LOCATION				GAS-FIRED HEA	AT EXCHANGER					
					GAS BURNER	WATERSIDE					
						STORAGE	UNIT				
ID	NAME	NO.	MANUFACTURER	MODEL NO.	INPUT	VOL	WEIGHT				
WH-1	MECH	108	AO SMITH	BTH-120	120000 Btu/h	60.0 gal	991 lb				

	GREASE INTERCEPTOR SCHEDULE											
ID TYPE	MANUFACTURER	MODEL	SPECIFICATION									
GI-1	ZURN	GT-2700-75	75 GPM, 150 LB GREASE CAPACITY, CORROSION-RESISTANT COATED FABRICATED STEEL, VENTED INLET FLOW CONTROL DEVICE									

HAMMER	HAMMER ARRESTOR SCHEDULE									
TYPE ID	DESCRIPTION									
HA-A	FIXTURE UNIT CAPACITY: 1-11									





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PLUMBING TITLE SHEET LMW



912-963-1611

## PLUMBING SPECIFICATIONS

#### GENERAL PROVISIONS

IMPOSED REGULATIONS: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE FOLLOWING CODES AND STANDARDS, IN ADDITION TO THOSE LISTED ELSEWHERE IN THE SPECIFICATIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR PLUMBING WORK:

#### **INTERNATIONAL PLUMBING CODE - 2018 EDITION INTERNATIONAL FUEL GAS CODE - 2018 EDITION**

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT WARRANTIES: PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE PLUMBING AND FIRE PROTECTION WORK WITH ELECTRICAL WORK, AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL MECHANICAL EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.

UTILITY CONNECTIONS: COORDINATE THE CONNECTION OF MECHANICAL SYSTEMS WITH EXTERIOR UNDERGROUND UTILITIES AND SERVICES. COMPLY WITH THE REQUIREMENTS OF GOVERNING REGULATIONS, FRANCHISED SERVICE COMPANIES AND CONTROLLING AGENCIES. PROVIDE A SINGLE CONNECTION FOR EACH SERVICE EXCEPT WHERE MULTIPLE CONNECTION ARE INDICATED.

#### PLUMBING IDENTIFICATION MATERIALS:

PLASTIC PIPE MARKERS: PROJECT MANUFACTURER'S STANDARD PRE-PRINTED, FLEXIBLE OR SEMI-RIGID, PERMANENT, COLOR-CODED, PLASTIC-SHEET PIPE MARKERS, COMPLYING WITH ANSI A13.1.

PROVIDE FULL BAND PIPE MARKERS, EXTENDING 360 DEGREES AROUND PIPE AT EACH LOCATION, FASTENED BY SNAP-ON APPLICATION OF PRE-TENSIONED SEMI-RIGID PLASTIC PIPE MARKER IDENTIFYING SYSTEMS: INSTALL PIPE MARKER ON PIPING OF THE FOLLOWING PIPING SYSTEMS:

DOMESTIC COLD WATER. HOT WATER. AND HOT WATER RETURN PIPING

LOCATE PIPE MARKERS WHEREVER PIPING IS EXPOSED TO VIEW IN MECHANICAL ROOMS, ACCESSIBLE MAINTENANCE SPACES (INCLUDING ACCESSIBLE AREAS ABOVE CEILINGS). NEAR EACH VALVE AND CONTROL DEVICES, NEAR MAJOR EQUIPMENT ITEMS AND OTHER POINTS OF ORIGINATION AND TERMINATION AND SPACED INTERMEDIATELY AT MAXIMUM SPACING OF 25 FEET ALONG EACH PIPING RUN.

DOMESTIC WATER PIPING SYSTEM

CPVC OR PEX IS ALLOWED AT OWNER'S OPTION.

WATER DISTRIBUTION PIPING 4" AND SMALLER SHALL BE TYPE L HARD DRAWN COPPER TUBE, ASTM B88-83 WITH WROUGHT COPPER-SOLDER JOINT FITTINGS.

WATER HAMMER ARRESTERS SHALL BE BELLOWS TYPE; PRECHARGED COMPRESSOR CHAMBER; STAINLESS STEEL CASING AND BELLOWS. PROVIDE SIZES COMPLYING WITH PDI STANDARD WH-201. JOSAM 75000 SERIES, JAY R. SMITH FIG 5000, OR ZURN 1700 SERIES.

BALL VALVES: BALL VALVES SHALL HAVE TWO-PIECE BRONZE OR BRASS BODY, MEETING MSS-SP110, FULL OR STANDARD PORT, BLOWOUT-PROOF STEM AND ADJUSTABLE PACKING NUT INDEPENDENT OF HANDLE. VALVES SHALL BE RATED FOR 150 SWP, 600 WOG OR 300 CWP. VALVES SHALL BE BY APOLLO, MILWAUKEE, NIBCO, VICTAULIC, WATTS OR RED-WHITE.

GATE VALVES: VALVES 3 INCHES AND SMALLER SHALL BE ALL BRONZE, MEETING MSS-SP80, INSERTED BONNET, SOLID WEDGE, NON-RISING STEM TYPE AND RATED AT 125 SWP, 200 WOG. HANDLES SHALL BE MALLEABLE IRON WITH BRONZE STEM. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

GLOBE VALVES: VALVES 3 INCHES AND SMALLER SHALL BE ALL BRONZE, MEETING MSS-SP80, INSERTED BONNET WITH INTEGRAL SEAT AND RENEWABLE DISC. VALVES SHALL BE RATED AT 125 SWP, 200 WOG. HANDLES SHALL BE MALLEABLE IRON WITH BRONZE STEM. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

CHECK VALVES: VALVES 2 INCHES AND SMALLER SHALL BE BRONZE BODY WITH BRONZE SEAT AND DISC AND SHALL BE RATED AT 125 SWP, 200 W0G. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

FLOW CONTROL VALVES: VALVES FOR DOMESTIC HOT WATER RETURN SHALL HAVE BRASS AND STAINLESS STEEL BODIES, WITH INTEGRAL BALL VALVE, GROUND JOINT UNION, AND SOLDER ENDS. VALVE SHALL BE RATED FOR 600 PSIG AND FLOW RATE, AS SHOWN ON DRAWINGS. FLOW CONTROL VALVES SHALL BE AUTOFLOW MODEL FU-050, HAYES 2500 OR EQUIVALENT BY GRISWOLD.

#### SOIL, WASTE AND VENT PIPING SYSTEM

SOIL, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 ABS-DWV (ASTM D2661-82) OR PVC-DWV (ASTM D2665-82) PIPE AND FITTINGS. JOINTS SHALL BE SOLVENT CEMENT SOCKET TYPE. SERVICE WEIGHT HUBLESS CAST IRON PIPE AND FITTINGS, ASTM A74. JOINTS IN UNDERGROUND CAST IRON PIPING SHALL BE MADE USING AN ASTM-C564 NEOPRENE ELASTOMERIC COMPRESSION GASKET CONFORMING TO THE REQUIREMENTS OF ASTM C 1563. DRAINAGE PIPING SUBJECT TO CARRYING WATER IN EXCESS OF 140°F SHALL BE CAST IRON.

GREASE WASTE SHALL BE HUBLESS CAST IRON. HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310. GASKETS SHALL CONFORM TO ASTM C 564. HEAVY DUTY AND MEDIUM DUTY COUPLINGS SHALL CONFORM TO ASTM C 1540.

FLOOR DRAIN FD: PROVIDE COATED CAST IRON FLOOR DRAINS WITH INTEGAL PIPE STOPS, FLASHING COLLAR, SEEPAGE FLANGE, 6 INCH DIAMETER ROUND NIKALOY STRAINER. FLOOR DRAINS SHALL BE BY: WADE, JOSAM, ZURN, J.R. SMITH & WATTS.

TESTING: THE PIPING OF THE SOIL, WASTE AND VENT SYSTEM SHALL BE TESTED WITH WATER BEFORE INSTALLING FIXTURES. WATER TEST SHALL BE APPLIED TO THE SOIL, WASTE AND VENTING SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE TEST IS APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE CLOSED EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILLED WITH WATER TO THE POINT OF OVERFLOW. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING OF THE SECTION UNDER TEST SHALL BE PLUGGED AND EACH SECTION SHALL BE FILLED WITH WATER AND TESTED WITH AT LEAST A 10 FOOT HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, AT LEAST THE UPPER 10 FEET OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT EACH JOINT OR PIPE IN THE BUILDING EXCEPT THE UPPER MOST 10 FEET OF THE SYSTEM HAS BEEN SUBMITTED TO A TEST OF AT LEAST 10 FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST, FOR AT LEAST 30 MINUTES BEFORE THE INSPECTION STARTS; THE SYSTEM SHALL BE TIGHT AT ALL JOINTS JOINTS THAT FAIL THE TEST SHALL BE REMADE AND RETESTED.

#### GAS PIPING SYSTEMS

ABOVE GROUND GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE OF THE SIZE INDICATED WITH CLASS 150 MALLEABLE IRON THREADED FITTINGS.

GAS PRESSURE REGULATORS SHALL BE DIAGHRAGM ACTUATED WITH CAST IRON BODY, ALUMINUM DIAPHRAGM CHAMBER, AND ALL INTERNAL PARTS DESIGNED FOR USE WITH NATURAL GAS. REGULATORS SHALL BE ADJUSTABLE, WITH AUTOMATIC LOADING, AUTOMATIC LOW PRESSURE CUT-OFF, AND FULL INTERNAL RELIEF. THE REGULATOR SHALL BE ADJUSTED FOR OUTLET PRESSURE INDICATED ON THE DRAWINGS. THE OUTLET PRESSURE SHALL NOT VARY MORE THAN 1 INCH W.C. FROM THE SET POINT AT SPECIFIED CAPACITY. THE REGULATOR SHALL BE CAPABLE OF COMPLETE SHUT-OFF IN THE EVENT THE SUPPLY PRESSURE IS INTERRUPTED OR THE GAS DEMAND EXCEEDS THE REGULATOR CAPACITY AND SHALL REMAIN OFF UNTIL THE REGULATOR IS MANUALLY RESET. THE REGULATOR SHALL HAVE A WEATHERPROOF, BUG PROOF, SCREENED VENT CAP INSTALLED IN THE VENT TAPPING. REGULATORS SHALL BE BY SENSUS (ROCKWELL), FISHER, OR SINGER.

GAS SOLENOID VALVES 3 INCHES IN SIZE AND SMALLER SHALL BE 2-WAY, NORMALLY CLOSED TYPE WITH MANUAL RESET FOR LOW PRESSURE SERVICE. THE VALVE SHALL HAVE AN ALUMINUM BODY, BUNA N SEAT, AND BUNA N DISC. MAXIMUM PRESSURE DROP SHALL NOT EXCEED 1" W.C. AT SYSTEM CAPACITY. THE SOLENOID ENCLOSURE SHALL BE NEMA 1 AND HAVE ELECTRICAL CHARACTERISTICS AS SHOWN ON THE DRAWINGS. VALVE SHALL BE UNDERWRITERS LABORATORIES LABELED. VALVES SHALL BE ASCO 8044 COMBUSTION VALVE SERIES OR EQUIVALENT BY SINGER OR FISHER.

PLUG VALVES SHALL HAVE IRON BODY (SEMI-STEEL) LUBRICATED TYPE CAST BRONZE PLUG, AND THREADED ENDS RATED FOR 175 PSIG W.O.G. WORKING PRESSURE. PLUG VALVES SHALL BE ROCKWELL 142, WALWORTH 655, OR POWELL 2200.

SHUTOFF VALVES 2 INCHES AND SMALLER SHALL BE BALL VALVES. VALVES SHALL HAVE THREADED INLET AND OUTLET CONNECTIONS, TWO-PIECE BRASS BODY, MEETING MSS-SP110, FULL OR STANDARD PORT, BLOWOUT-PROOFSTEM AND ADJUSTABLE PACKING NUT INDEPENDENT OF HANDLE. VALVES SHALL BE ASME B16.44 AND UL LISTED FOR USE WITH NATURAL GAS. VALVE SHALL BE RATED FOR 250 PSI, 600 CWP. VALVES SHALL BE BY MAXITROL, APOLLO, HAYS, MILWAUKEE, NIBCO, OR WATTS.

#### WATER HEATERS

WATER HEATERS SHALL BE CONFIGURED TO OPERATE WITH NATURAL GAS AND A 120 VOLT/60 HZ AC POWER SOURCE. UNITS SHALL HAVE A BTU INPUT RANGE OF 15,000 BTU/HR TO 199,500 BTU/HR, A MINIMUM RECOVERY EFFICIENCY RATING OF 82%, A MINIMUM HOT WATER OUTLET CAPACITY OF 6.3 GALLONS PER MINUTE (WITH A 60 °F TEMPERATURE RISE), AND A MINIMUM OPERATING FLOW RATE OF 0.6 GALLON PER MINUTE (WITH A 60 °F TEMPERATURE RISE). WATER HEATERS SHALL BE MICROPROCESSOR CONTROLLED AND UTILIZE A DIRECT ELECTRONIC IGNITION SYSTEM (WITH NO STANDING PILOT), FULLY MODULATING GAS CONTROL VALVE, TURBINE FLOW METER, AUTOMATIC ELECTRO-MECHANICAL WATER FLOW CONTROL VALVE, AND WATER TEMPERATURE THERMISTORS TO MAINTAIN OUTLET WATER TEMPERATURE BETWEEN ± 2 °F OF SET POINT TEMPERATURE. UNITS SHALL INCORPORATE THE FOLLOWING INTERNAL SAFETY DEVICES: FLAME FAILURE LOCKOUT, BOILING PROTECTION LOCKOUT, THERMAL OVERHEAT PROTECTION, INTERNAL FREEZE PROTECTION FOR AMBIENT TEMPERATURES AS LOW AS -30 °F, AND LOCKOUT PROTECTION IN THE EVENT OF A BLOCKED FLUE. WATER HEATERS SHALL UTILIZE A REMOTE TEMPERATURE THERMOSTAT CONTROLLER TO PROVIDE AN ADJUSTABLE SET POINT RANGE OF 96 °F TO 180 °F. UNITS SHALL ALSO BE CAPABLE OF STORING AND DISPLAYING UP TO 9 DIAGNOSTIC MAINTENANCE CODES, VIA THE DISPLAY ON THE REMOTE TEMPERATURE THERMOSTAT CONTROLLER. WATER HEATERS SHALL BE SUITABLE FOR EXTERIOR INSTALLATION.

WATER HEATERS SHALL HAVE AN INTERNALLY COATED COPPER HEAT EXCHANGER. UNITS SHALL HAVE STAINLESS STEEL BURNERS, SOLID BRASS WATER FLOW CONTROL VALVE, AND SOLID BRASS INLET AND OUTLET WATER CONNECTIONS. THESE AND ALL OTHER PARTS SHALL BE WARRANTED AGAINST MATERIAL DEFECTS OR WORKMANSHIP FOR A MINIMUM PERIOD OF 5 YEARS FROM THE DATE OF PURCHASE. WATER HEATERS SHALL BE BY A.O. SMITH, RINNAI, NAVIEN, INTELLIHOT OR HTP.

DOMESTIC HOT WATER CIRCULATION PUMP: PUMP SHALL BE THE IN-LINE CENTRIFUGAL TYPE DESIGNED FOR 125 PSI WORKING PRESSURE WITH BRONZE BODY AND IMPELLER, MECHANICAL SEALS AND STAINLESS STEEL IMPELLER SHAFT. THE PUMP MOTOR SHALL BE THE OPEN DRIP-PROOF DESIGN WITH SLEEVE BEARINGS, BUILT-IN THERMAL OVER-LOAD PROTECTORS, AND SHALL OPERATE AT 1750 RPM. PUMP SHALL HAVE THE CAPACITIES AS SHOWN ON THE DRAWINGS.

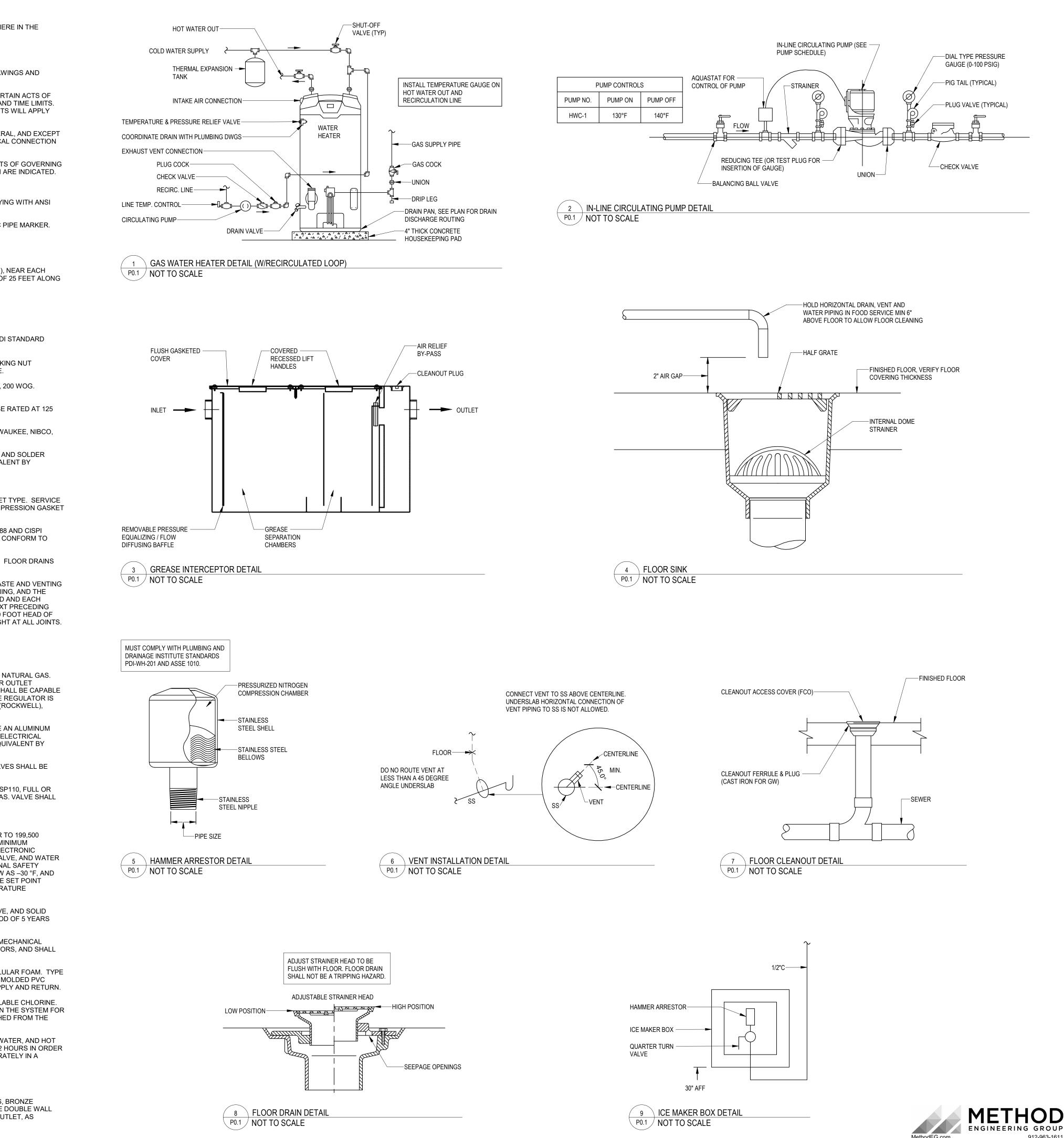
PIPE INSULATION: INSULATION SHALL BE PREFORMED, TWO-PIECE, HEAVY DENSITY FIBERGLASS WITH SELF SEALING ASJ JACKET CONFORMING TO FS HH-I-558 FORM D OR CELLULAR FOAM. TYPE III, CLASS 12. VALVES AND FITTINGS SHALL BE INSULATED WITH FIBERGLASS INSULATION OF THE SAME MATERIAL THICKNESS AS INSULATION ON ADJACENT PIPE AND HAVING A MOLDED PVC JACKET. JACKETS SHALL BE CERTAINTEED SNAP-FORM OR ZESTON PVC. INSULATION THICKNESS SHALL BE 1 INCH THICK FOR ALL SIZES OF COLD WATER AND HOT WATER SUPPLY AND RETURN.

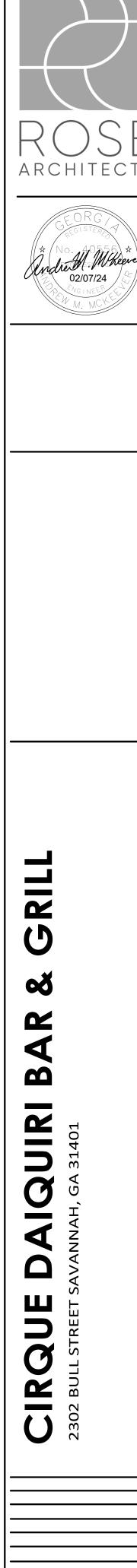
STERILIZATION: THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE THOROUGHLY STERILIZED WITH A SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FEDERAL SPECIFICATION BB-C-120. THE STERILIZATION SOLUTION SHALL BE ALLOWED TO REMAIN IN THE SYSTEM FOR A PERIOD OF 6 HOURS, DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, THE SOLUTION SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION.

TESTING: THE HYDROSTATIC TEST SHALL BE MADE UPON COMPLETION OF THE ROUGHING-IN AND BEFORE SETTING FIXTURES. THE ENTIRE DOMESTIC COLD WATER AND HOT WATER, AND HOT WATER CIRCULATION PIPING SYSTEM SHALL BE TESTED AT A HYDROSTATIC PRESSURE OF 100 PSIG AND PROVIDE TIGHT AT THIS PRESSURE FOR A PERIOD OF NOT LESS THAN 2 HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS. WHERE A PORTION OF THE WATER PIPING SYSTEM IS TO BE CONCEALED BEFORE COMPLETION, THIS PORTION SHALL BE TESTED SEPARATELY IN A MANNER DESCRIBED FOR THE ENTIRE SYSTEM.

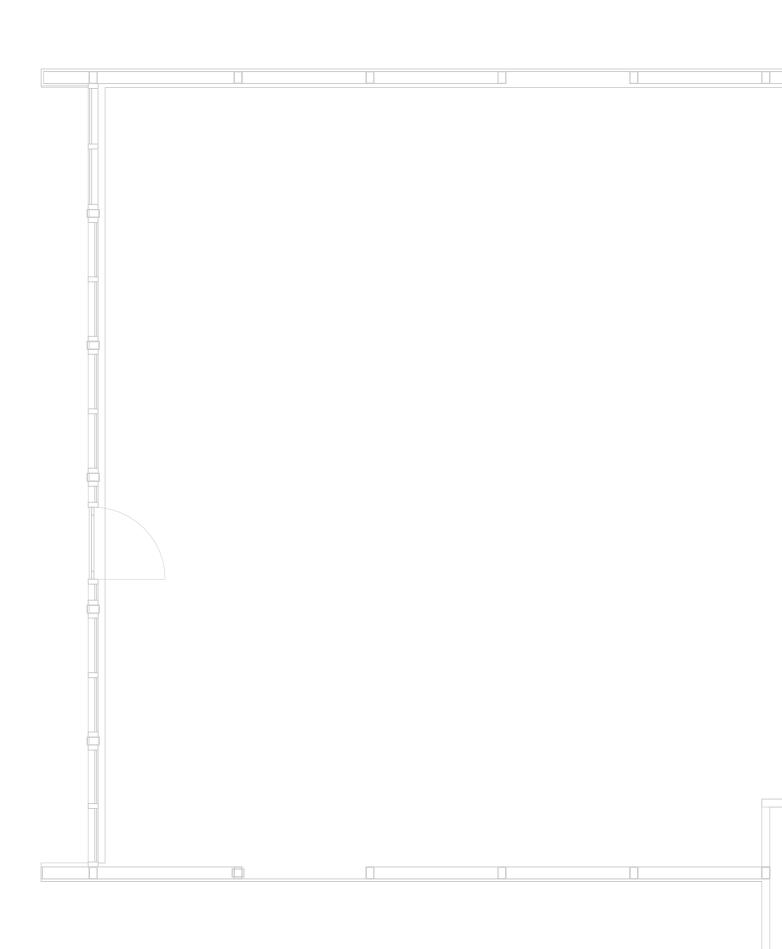
#### **GREASE INTERCEPTOR**

ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL LOW PROFILE. PDI RATE AT 75 GPM AND 150 LBS. GREASE CAPACITY. WITH INTERNAL AIR RELIEF BY-PASS. BRONZE CLEANOUT PLUG AND VISIBLE DOUBLE WALL TRAP SEAL WITH REMOVABLE PRESSURE EQUALIZING/FLOW DIFFUSING INLET BAFFLE, FIXED BOTTOM OUTLET BAFFLE, AND VISIBLE DOUBLE WALL TRAP SEAL. GASKETED NON-SKID SECURED COVER WITH CENTER TIE DOWN ASSEMBLY, COMPLETE WITH EXTERNAL FLOW CONTROL FITTING. FURNISH WITH LOW INLET AND OUTLET, AS NECESSARY. GREASE INTERCEPTOR SHALL BE BY ZURN OR EQUAL.

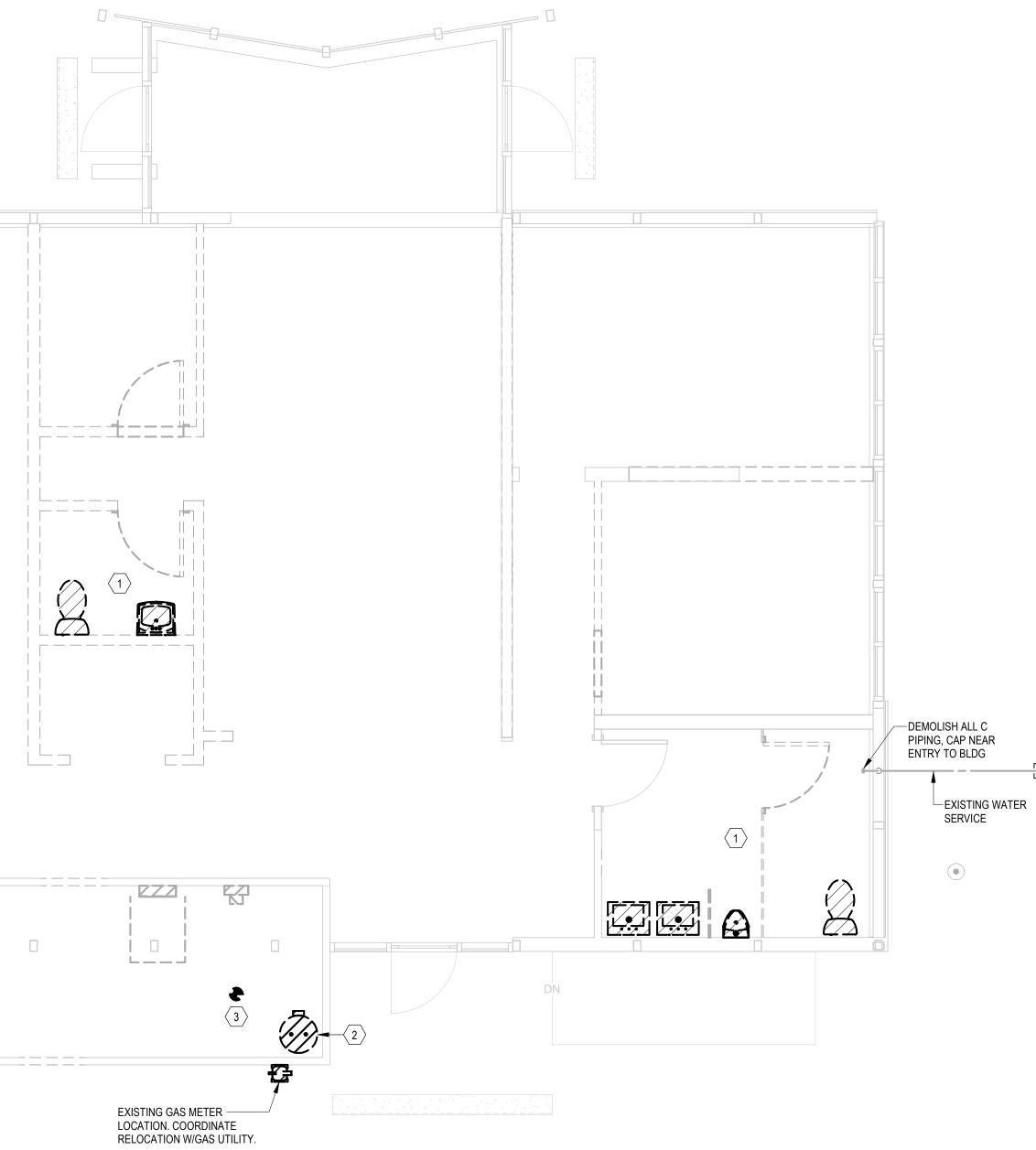




PLUMBING SPECS & DETAILS lMW



1PLUMBING DEMOLITION PLANP1.01/4" = 1'-0"



#### PLUMBING SHEET NOTES

- A THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL
- VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
   B PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
- PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
- D REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH
- PLUMBING FIXTURE AND PIPING INSTALLED. E ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
- F ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
- G ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
- H MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
   I FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL
- FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
   J CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING DELOWLODADE WASTE DIDING AND DEELECT ANY DEVIATION OPEATED THAN 41.0"
- BELOW GRADE WASTE PIPING AND REFLECT ANY DEVIATION GREATER THAN 1'-0"FROM THIS PLAN ON THE AS-BUILT DRAWINGS.K CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING
- STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

#### KEYNOTES

- 1 DEMOLISH ALL FIXTURES IN RESTROOM. REMOVE WASTE, VENT & WATER PIPING BACK TO MAIN LINES.
- DEMOLISH WATER HEATER. REMOVE C & GAS LINES BACK TO MAIN.
  DEMOLISH FD. REMOVE SS PIPING BACK TO MAIN BUILDING SS LINE. REPAIR FLOOR AS NECESSARY.





# CIRQUE DAIQUIRI BAR & GRIL

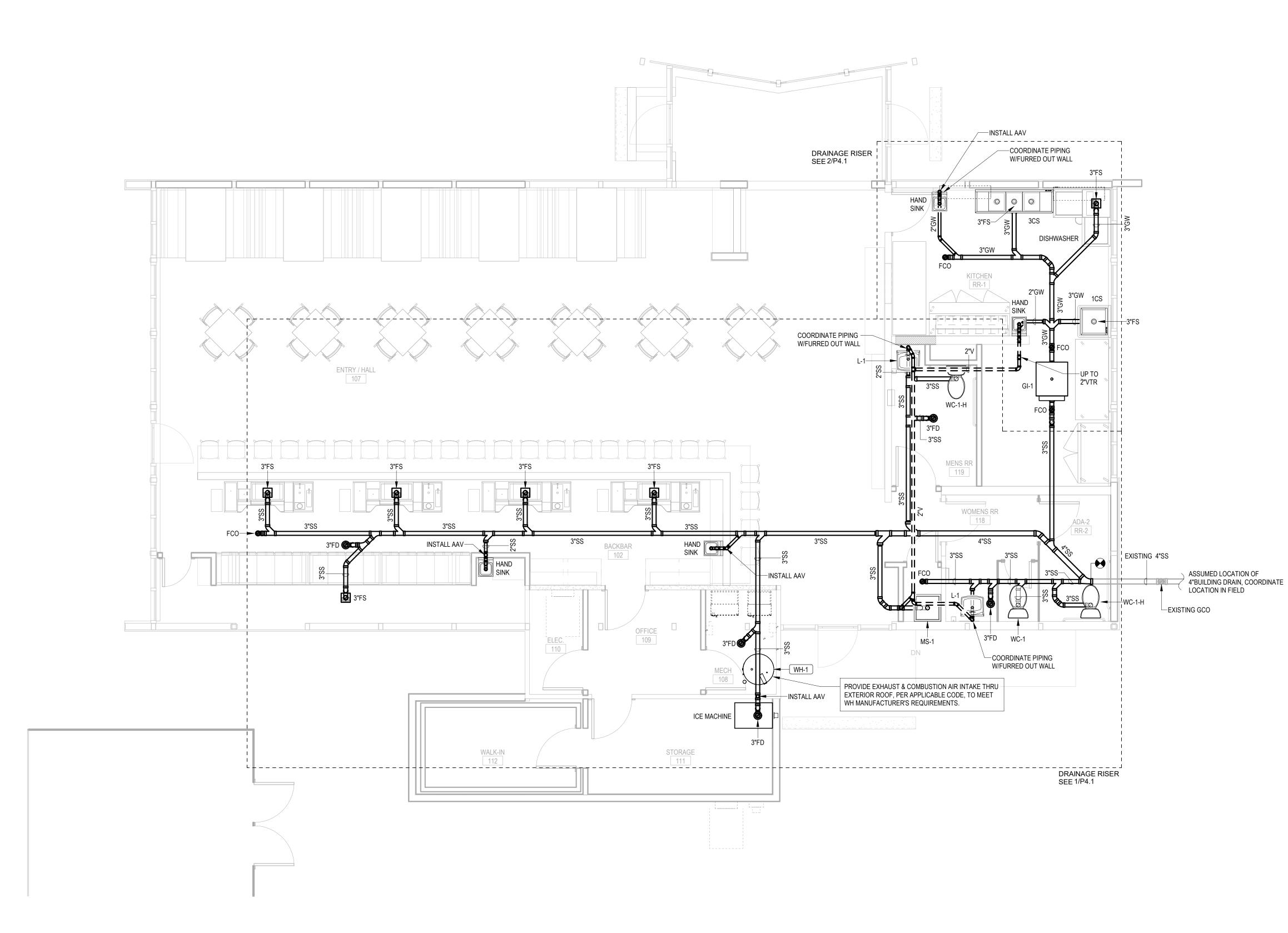
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PLUMBING DEMOLITION PLAN

P1.0

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EXISTING WATER METER



1 WASTE & VENT PLAN P1.1 1/4" = 1'-0"

#### PLUMBING SHEET NOTES

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- PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
- PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
- D REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH
- PLUMBING FIXTURE AND PIPING INSTALLED. E ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
- ALL WALL-MOUNTED ACCESS FAMILES STALL BE LOOKABLE TITE.
   F ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
- G ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
- H MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
- FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
   CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING
- BELOW GRADE WASTE PIPING AND REFLECT ANY DEVIATION GREATER THAN 1'-0" FROM THIS PLAN ON THE AS-BUILT DRAWINGS.
- K CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

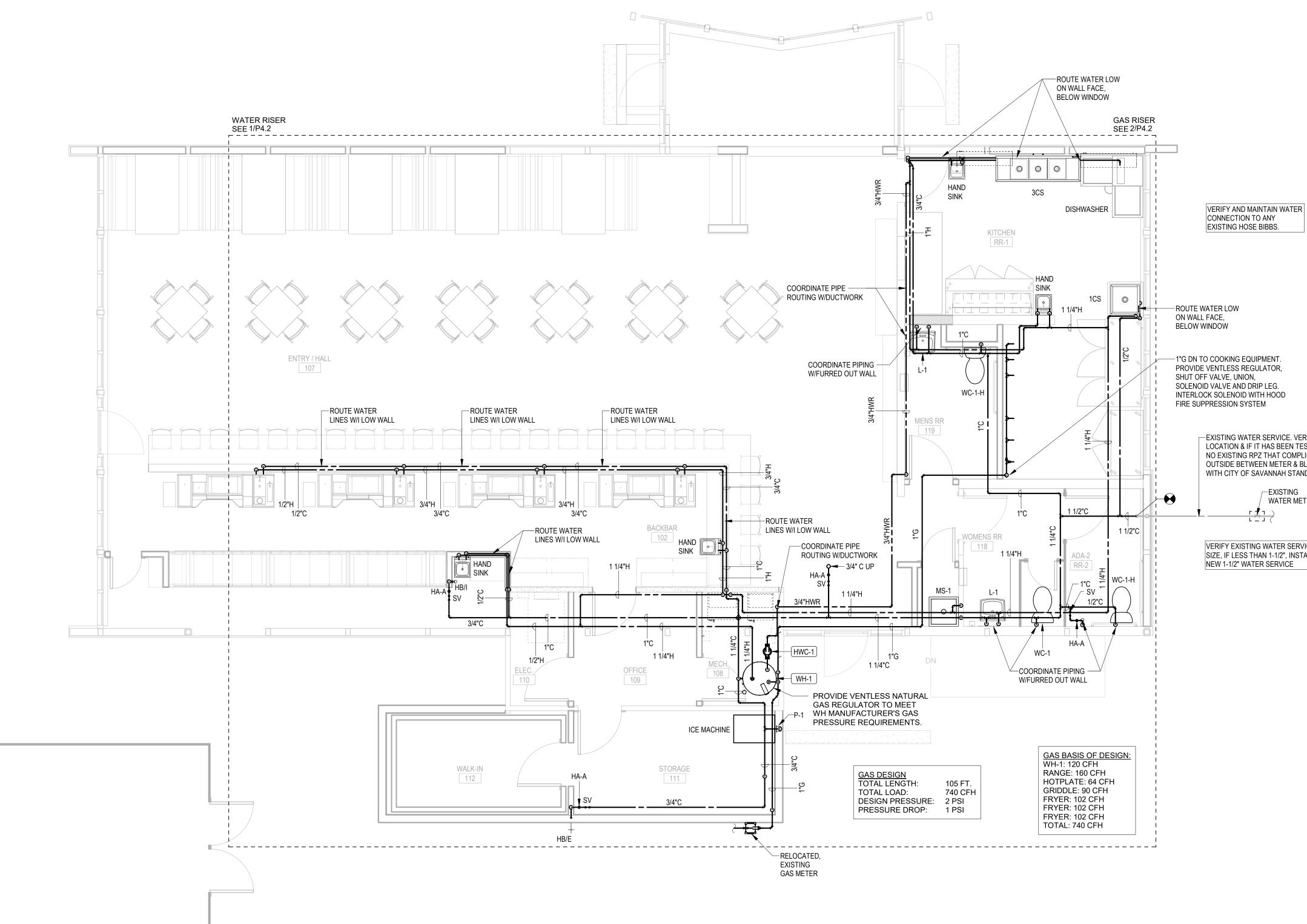




# IRQUE DAIQUIRI BAR & GRI

WASTE & VENT PLAN





HOT & COLD WATER PLAN P2.1 1/4" = 1'-0"

#### PLUMBING SHEET NOTES

- A THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
- B PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
- C PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
- D REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH
- PLUMBING FIXTURE AND PIPING INSTALLED.
- E ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE. F ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
- G ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
- H MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR. I FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL
- PLANS FOR MORE INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING J
- BELOW GRADE WASTE PIPING AND REFLECT ANY DEVIATION GREATER THAN 1'-0" FROM THIS PLAN ON THE AS-BUILT DRAWINGS. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING Κ
- STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

EXISTING WATER SERVICE. VERIFY EXISTING RPZ LOCATION & IF IT HAS BEEN TESTED. IF THERE IS NO EXISTING RPZ THAT COMPLIES. INSTALL AN RPZ OUTSIDE BETWEEN METER & BLDG THAT COMPLIES WITH CITY OF SAVANNAH STANDARDS.

> EXISTING L\_J (

VERIFY EXISTING WATER SERVICE SIZE, IF LESS THAN 1-1/2", INSTALL NEW 1-1/2" WATER SERVICE





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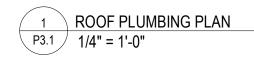
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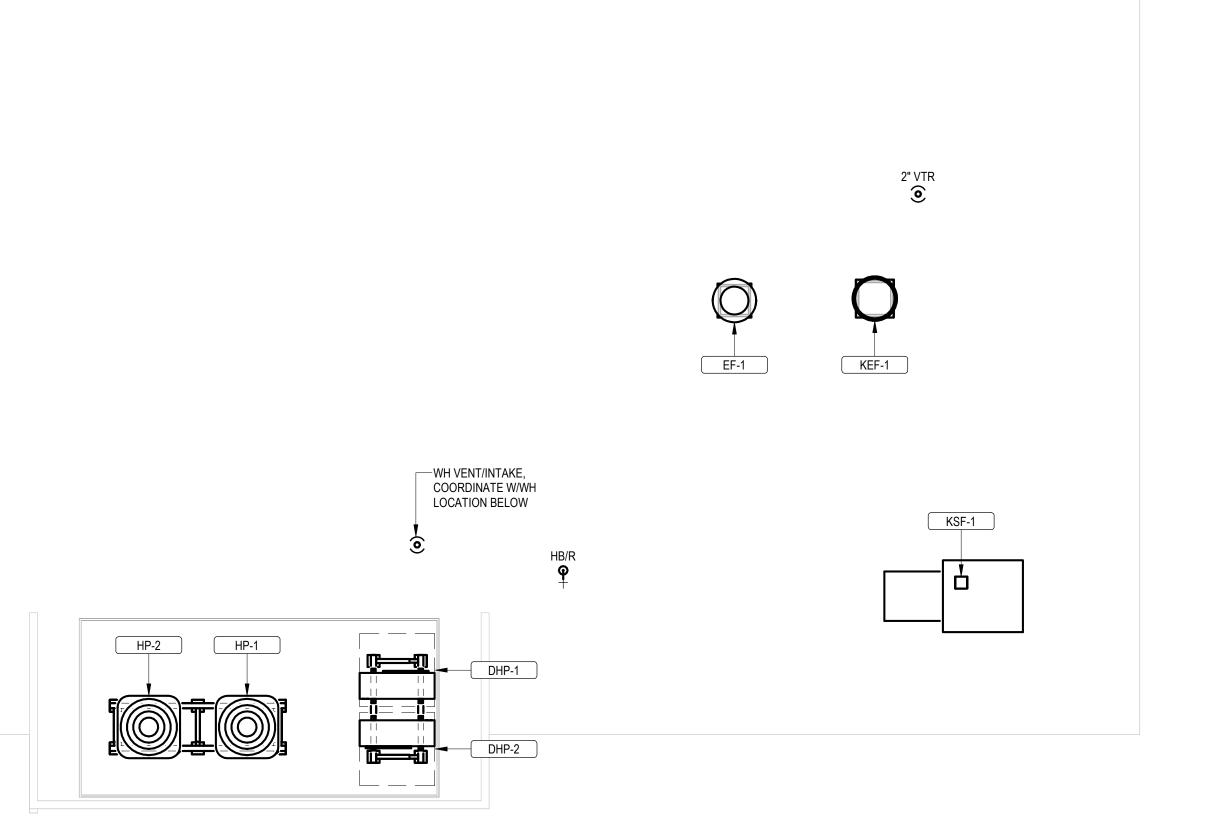
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HOT & COLD WATER PLAN LMW



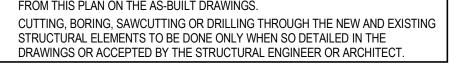


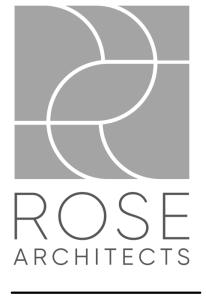




#### PLUMBING SHEET NOTES

- A THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
- B PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
- C PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
- D REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH
- PLUMBING FIXTURE AND PIPING INSTALLED. E ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
- F ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
- G ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE. H MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT
- OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR. I FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL
- PLANS FOR MORE INFORMATION. J CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING BELOW GRADE WASTE PIPING AND REFLECT ANY DEVIATION GREATER THAN 1'-0"
- FROM THIS PLAN ON THE AS-BUILT DRAWINGS. K CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING







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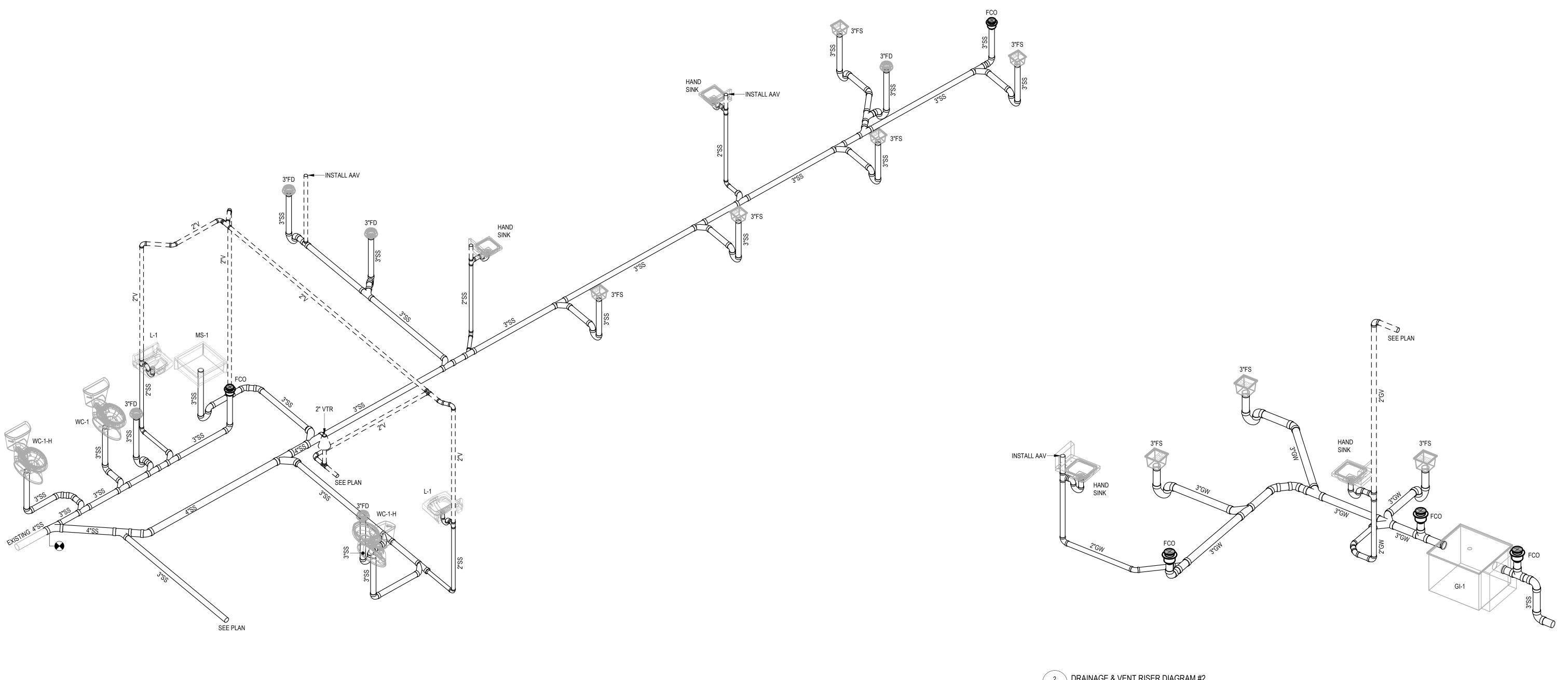
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PLUMBING ROOF PLAN LMW

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1 DRAINAGE & VENT RISER DIAGRAM #1





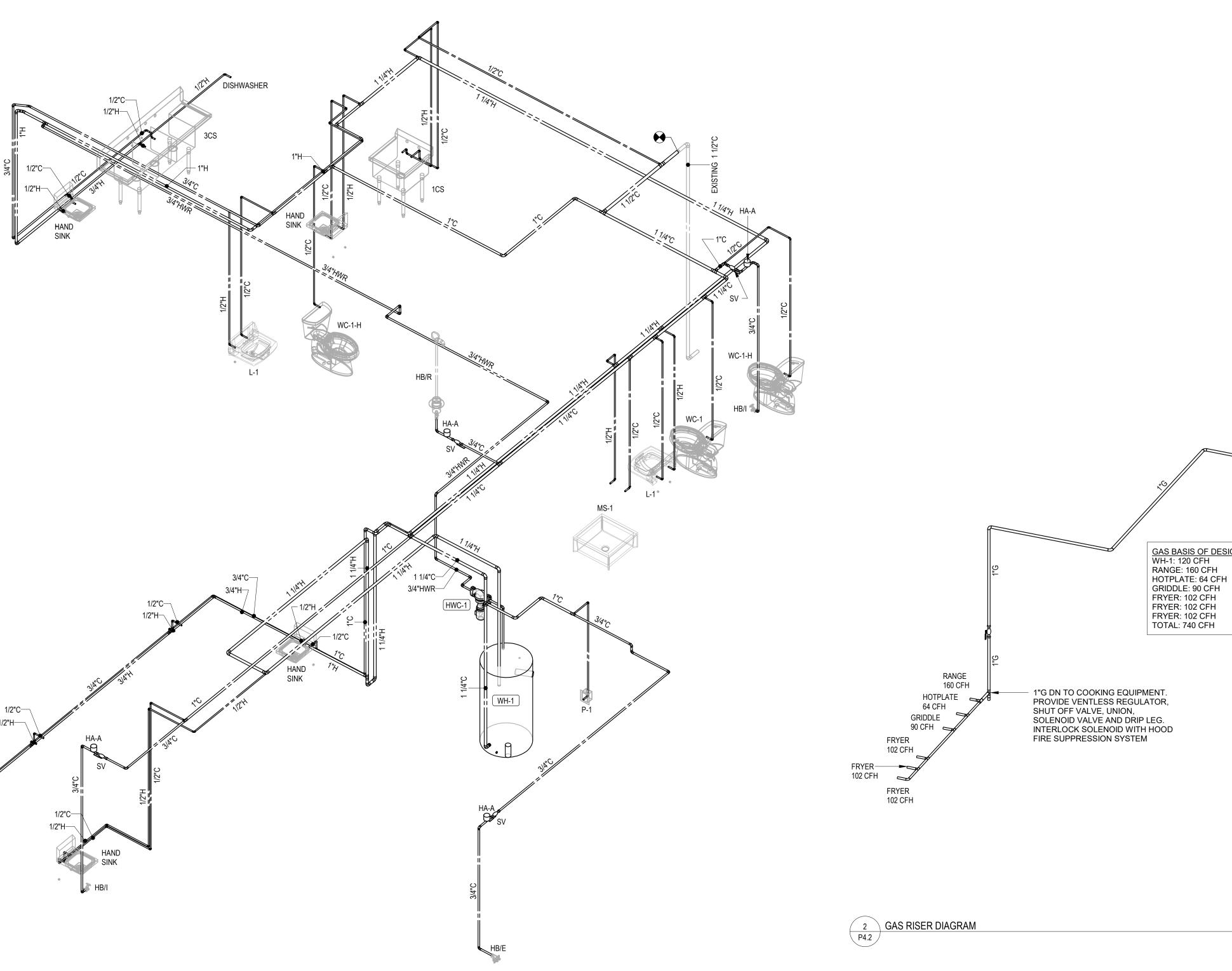


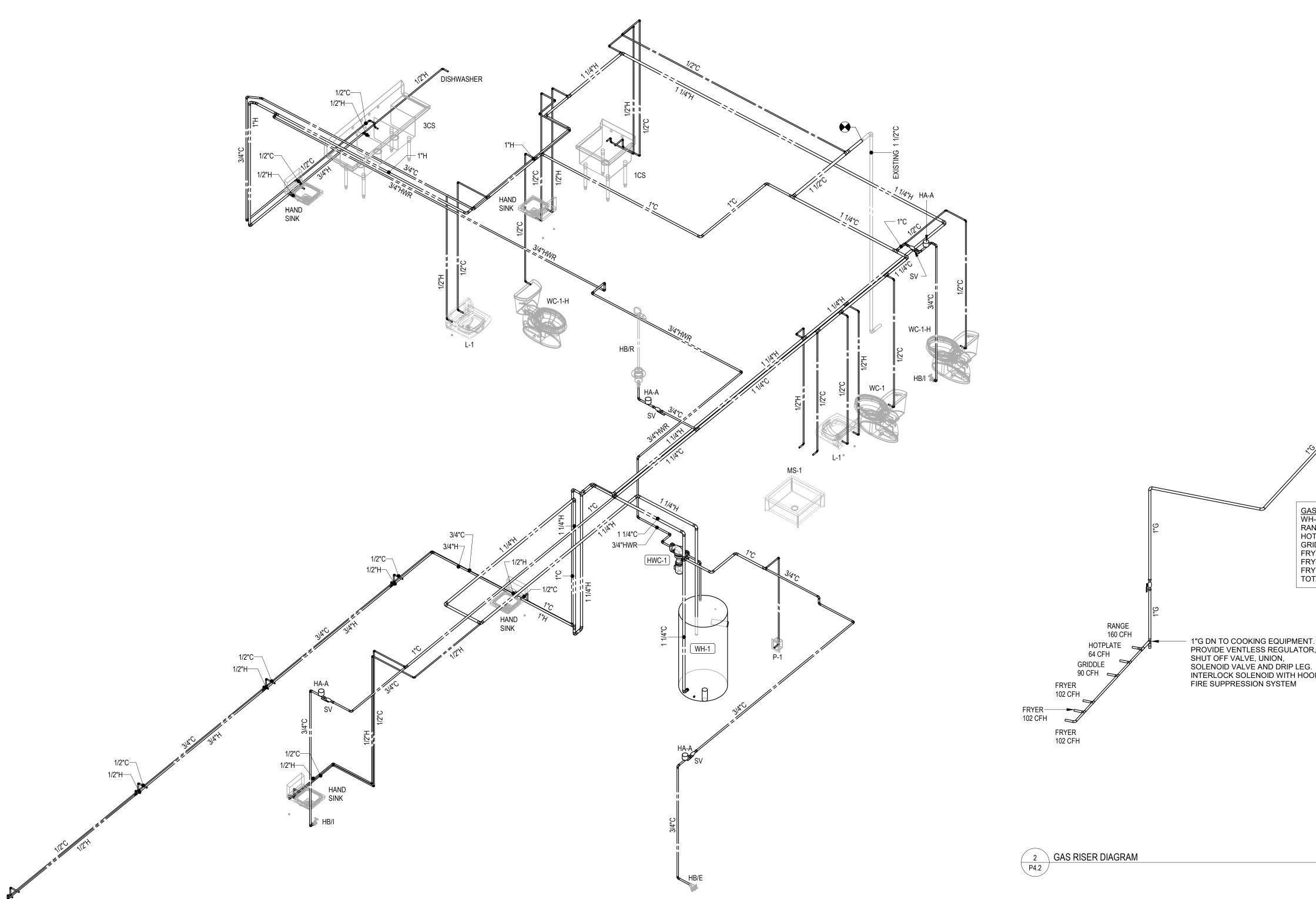
# CIRQUE DAIQUIRI BAR & GRII 2302 BULL STREET SAVANNAH, GA 31401

PLUMBING RISER DIAGRAMS



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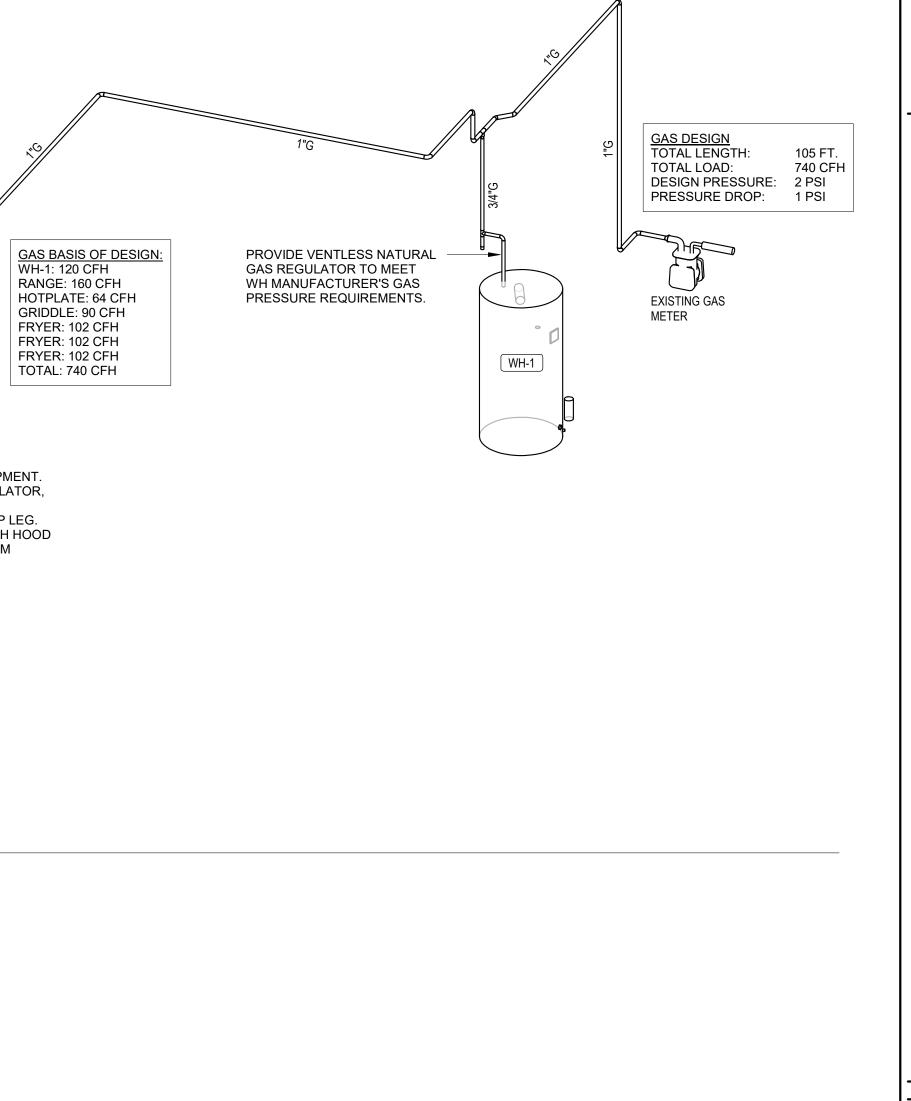








PLUMBING RISER DIAGRAMS









GENERAL MECHANICAL SYMBOLS	HVAC SYMBOLS	PIPING SYMBOLS
REVISION NUMBER - SHOWN ON PLANS	18"x12" SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)	CHILLED WATER RETURN
POINT WHERE NEW CONNECTS TO EXISTING		CHWS————————————————————————————————————
	18"/12" OVAL DUCT SIZE TAG (WIDTH / HEIGHT)	
	18"Ø ROUND DUCT SIZE TAG (DIAMETER)	CWR CONDENSER WATER RETURN
I   KEYNOTE	(E) EXISTING DUCT TAG	CWS————————————————————————————————————
	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	GEOTHERMAL WATER SUPPLY
CONTINUATION SYMBOL	DOUBLE WALL SPIRAL DUCT	
5 ROOM NAME AND NUMBER		HWS HEATING WATER SUPPLY
ITEM TO BE DEMOLISHED	LINED DUCT	G
	EXTERIOR DUCT	REF-L REFRIGERANT-LIQUID
AREA NOT IN CONTRACT		
PIPE SIZE TAG (DIAMETER)  ABOVE GROUND PIPING	18"x18" S/A SUPPLY AIR	REF-HG REFRIGERANT-HOT GAS
PIPE SLOPE TAG	18"x18" S-O/A CONDITIONED OUTSIDE AIR	STM     STEAM     CONDENSATE RETURN
1/8" / 12" SLOPE BELOW GROUND PIPING	18"x18" O/A OUTSIDE AIR	
INVERT: -105' - 1" PIPE INVERT ELEVATION TAG		
(E) EXISTING PIPE TAG	18"x18" R/A RETURN AIR	PIPE TEE 4"-REDUCING 45 CAP DEGREE TEE
	18"x18" T/A TRANSFER AIR	PIPE ACCESSORY TAGS 45 DEGREE TEE
ABBREVIATIONS	18"x18" E/A EXHAUST AIR	Imen 2" M-CNTRL Imen 2" LOCKED LOCK SHIELD VALVE Imen 2" M-CNTRL Imen 2" M-CNTRL Imen 2" M-CNTRL Imen 2" M-CNTRL Imen 2" M-CNTRL
ØROUNDLVLOUVERABVABOVELWTLEAVING WATER TEMPERATURE	18"x18" L/A RELIEF AIR	
AC     AIR CONDITIONING     M/A     MIXED AIR       AD     AREA DRAIN     MAX     MAXIMUM	18"x18" GE/A GREASE EXHAUST AIR	BALL VALVE PRESS REDUCING 2-WAY ELEC. CONTR
ADD ADDENDUM MBH ONE THOUSAND BTU PER HOUR AFF ABOVE FINISHED FLOOR MCF ONE THOUSAND CUBIC FEET		BALANCING VALVE QUICK OPENING
AFUE ANNUAL FUEL UTILIZATION EFFICIENCY MD MOTORIZED DAMPER ALT ALTERNATE MECH MECHANICAL	COMBUSTION AIR	I I - 2" BUTTERFLY BUTTERFLY VALVE - 2" STRAINER
AP ACCESS PANEL MFR MANUFACTURER ARCH ARCHITECT/ARCHITECTURAL MIN MINIMUM	DROP	2" CHECK SI - 1" GAS-CNTRL CHECK VALVE MALVE EMERG. GAS SHUTOFF
BFF     BELOW FINISHED FLOOR     MISC     MISCELLANEOUS       BLW     BELOW     MTR     MOTOR       DTH     DDITIGN THERMAN LINITG     MUKA     MAKE HIR(AIR)	DROP	TSJ (ALTERNATE CHECK VALVE SYMBOL) TT T PLUG
BTU     BRITISH THERMAL UNITS     MU/A     MAKE-UP/AIR       BTUH     BRITISH THERMAL UNITS PER HOUR     NC     NOISE CRITERIA	DROP	PLUG VALVE PLUG VALVE 1" GAS COCK
CAP     CAPACITY     NC     NORMALLY CLOSED       CB     CATCH BASIN     NIC     NOT IN CONTRACT		
CFM     CUBIC FEET PER MINUTE     NO     NUMBER       CLG     CEILING     NO     NORMALLY OPEN	DROP	GATE VALVE 1" REG GATE VALVE PRESS REGULATOR
CO     CLEAN OUT     NTS     NOT TO SCALE       CW     COLD WATER     O     OXYGEN	DROP	2" GLOBE GLOBE VALVE
D     DEGREE     O/A     OUTSIDE AIR       DB     DRY BULB     ORD     OVERFLOW ROOF DRAIN	DROP 🛛 🗹 ROUND EXHAUST/RELIEF AIR DUCT RISE	
DIA     DIAMETER     PD     PRESSURE DROP       DN     DOWN     PIV     POST INDICATOR VALVE       DW     DIATULED WATER     PLOO     PULMENDO	GRILLES, REGISTERS & DIFFUSERS TAG	PROJECT GENERAL NOTES
DWDISTILLED WATERPLBGPLUMBINGEAEACHPRESSPRESSUREEATENTERING AIR TEMPERATUREPRVPRESSURE REDUCING VALVE	TYPE (SEE SCHEDULE)	
EATENTERING AIR TEMPERATUREPRVPRESSURE REDUCING VALVEELECELECTRICALPSIPOUNDS PER SQUARE INCHEQUIPEQUIPMENTPSIGPOUNDS PER SQUARE INCH GAUGE	3-CONE DIFFUSER	A COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
EWC ELECTRIC WATER COOLER PWR POWER	THROW PATTERN MAX NC RATING	B FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL COD
EWTENTERING WATER TEMPERATURERDUCT RISERE/AEXHAUST AIRR/ARETURN AIREXISTEXISTINGRCPRADIANT CEILING PANEL	PERFORATED DIFFUSER WITH SD3 300	INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
F DEGREES FAHRENHEIT RD ROOF DRAIN FCO FLOOR CLEAN OUT REC RECESSED	DEFLECTORS	C LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
FD FLOOR DRAIN RED REDUCER FDC FIRE DEPARTMENT CONNECTION RH RELATIVE HUMIDITY	WITH ADJUSTABLE SD9 400	D PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
FL FLOOR RL/A RELIEF AIR FO FUEL OIL RM ROOM	PATTERNS GRILLE	E MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED
FOV     FUEL OIL VENT     RPM     REVOLUTIONS PER MINUTE       FOR     FUEL OIL RETURN     RW     RAIN WATER	LOUVERED DOUBLE     DIA     SD3     500       DEFLECTION GRILLE     12"x10"     12"x10"     LOUVERED GRILLE	REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
FOSFUEL OIL SUPPLYSFSQUARE FOOTFPMFEET PER MINUTES/ASUPPLY AIR		F ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
FSFLOOR SINKSANSANITARYFTFOOT/FEETSFSQUARE FOOT	LINEAR DAR GRILLE 48"x2 1/2" LINEAR DIFFUSER TAG	G REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.
FTRFIN TUBE RADIATIONSDSMOKE DAMPERGALGALLONSMSURFACE MOUNT	TYPE (SEE SCHEDULE)	H PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHE SIZE IS SHOWN.
GFGAS-FIREDSPSTANDPIPEGCGENERAL CONTRACTORSPSTATIC PRESSURE	8' - 0"AFF NECK SIZE	I FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
GPMGALLONS PER MINUTESTMSTEAMGWGREASE WASTETTHERMOSTAT	LSD1 200 1/4' - 0"/8" LSD1 200 ELEVATION (CENTER OF FACE)	J INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIF
HBHOSE BIBTDTEMPERATURE DROPHPHORSE POWERTDRTRENCH DRAIN	LINEAR SLOT	CONSISTENT WITH THE SPECIFICATIONS. K ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL
HTGHEATINGTEMPTEMPERATUREHTRHEATERTYPTYPICAL	DIFFUSER <b>MECHANICAL EQUIPMENT TAGS</b>	EQUIPMENT. L INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT
HWHOT WATERUGUNDERGROUNDHYDHYDRANTVACVACUUM		CEILINGS. M THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY
ID     INDIRECT     V     VENT       IN     INCH     VAV     VARIABLE AIR VOLUME	VAV BOX NOT INCLUDING CURB 590 lb	OWNER.
INV     INVERT     VENT     VENTILATION       LB     POUND     VTR     VENT THROUGH ROOF	BOTTOM OF EQUIPMENT VAV-XX ELEVATION - 10' - 0"	N PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.
LB/HRPOUNDS PER HOURWWASTELATLEAVING AIR TEMPERATUREWBWET BULB	4.0 ton	O CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
LPLOW PRESSUREWCOWALL CLEAN OUTLPGLIQUEFIED PETROLEUM GASWHWALL HYDRANT	EXISTING EQUIPMENT	P PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
	EXISTING RELOCATED FUEL INPUT RTU-XX	Q LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING. R ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
	EQUIPMENT – (R)VAV-XX GAS PIPE FLOW – 115 CFH	S PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SH
AC     AIR CONDITIONOR     FCU     FAN COIL UNIT       AH     AIR HANDLER     FF     FLY FAN		BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.
AHUAIR HANDLING UNITGRVGRAVITY ROOF VENTILATORASAIR SEPARATORHPHEAT PUMPDOULDERDOULDERHPHEAT PUMP	FOR ADDITIONAL INFORMATION) VAV-XX EQUIPMENT ID RAC-XX	<ul><li>T REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.</li><li>U THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRI</li></ul>
BBOILERHWPHEATING WATER PUMPCHCHILLERHRCHEAT RECOVERY CONTROLLER	TEMPERATURE SENSOR (TS) - C3H3 DETECTOR	TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.
CT     COOLING TOWER     KEF     KITCHEN EXHAUST FAN       CUH     CABINET UNIT HEATER     MAU     MAKEUP AIR UNIT	HUMIDITY SENSOR (HS)-4 - CH4 DETECTOR	V THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPL
CHWP     CHILLED WATER PUMP     RAC     ROOFTOP AIR CONDITIONER       DAH     DUCTLESS AIR HANDLER     RHP     ROOFTOP HEAT PUMP	TEMPERATURE & CO2 SENSOR TC-4 = CO2 CO2 DETECTOR	THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVE AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITI
DHP     DUCTLESS HEAT PUMP     SF     SUPPLY FAN       DOAS     DEDICATED OUTDOOR AIR SYSTEM     TF     TRANSFER FAN	TEMPERATURE & HUMIDITY SENSOR (TH) = CO CO DETECTOR THERMOSTAT (T) = H2 DETECTOR	NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SIT
EFEXHAUST FANUHUNIT HEATEREHELECTRIC HEATERVAHVRF AIR HANDLEREDENENVAHVRF AIR HANDLER	THERMOSTAT (T) = H2 H2 DETECTOR HUMIDISTAT (H) = H2S H2S DETECTOR	CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY
ERVENERGY RECOVERY VENTILATORVHPVRF HEAT PUMPETEXPANSION TANKVRFVARIABLE REFRIGERANT FLOW	O2 DETECTOR O2 4 1002 NO2 DETECTOR	HAVING JURISDICTION. W WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT
	HZG HAZARDOUS GAS DETECTOR	CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
* NOTE *	COMB. FIRE/SMOKE DAMPER COMB. FIRE/SMOKE DAMPER COMB	X THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING A
	FIRE DAMPER MOTORIZED DAMPER	THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL,
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN	SMOKE DAMPER BACKDRAFT DAMPER	
		ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

#### HVAC GENERAL NOTES

- A CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0"
- AFF, A MINIMUM OF 8" FROM LIGHT SWITCH. B REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
- C CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE SCH40 PVC.
- D ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE. E COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND
- GRILLES WITH NEW AND EXISTING LIGHTING. F PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT.
- COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED. G THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED
- AND PRIOR TO THE FINAL PUNCH. H INSTALL, SUPPORT, AND BRACE ALL HVAC EQUIPMENT, PIPING, DUCTWORK, AND ACCESSORIES PER "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA,
- ANSI/SMACNA 006-2006 AND LOCAL SEISMIC AND WIND REQUIREMENTS. I PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.
- J SUPPLY REGISTERS SHALL ALIGN WITH LIGHT FIXTURES AND OTHER CEILING DEVICES. COORDINATE FINAL LOCATIONS OF CEILING-MOUNTED DEVICES WITH ARCHITECT.
- K PROVIDE DUCT FIRE DAMPERS AT ALL TRANSFER DUCT, OA DUCT, AND SUPPLY DUCT PENETRATIONS THRU A RATED CEILING ASSEMBLY.
- THE CONTRACTOR SHALL MATCH THE ELEVATION OF ALL WALL CAPS, L DRYER-VENTS, AND RANGE HOOD VENTS.

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- M0.0 HVAC TITLE SHEET
- M0.1 HVAC SCHEDULES & SPECIFICATIONS M1.1 HVAC PLAN
- M1.2 ROOF HVAC PLAN
- M2.1 MECHANICAL SECTIONS M3.1 HVAC DETAILS
- M3.2 HVAC DETAILS





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HVAC TITLE SHEET

M0.0

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## **MECHANICAL SPECIFICATIONS**

#### GENERAL PROVISIONS

IMPOSED REGULATIONS: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE FOLLOWING CODES AND STANDARDS, IN ADDITION TO THOSE LISTED ELSEWHERE IN THE SPECIFICATIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR MECHANICAL WORK:

INTERNATIONAL MECHANICAL CODE - 2018 EDITION INTERNATIONAL ENERGY CONSERVATION CODE - 2015 EDITION

INTERNATIONAL FUEL GAS CODE - 2018 EDITION

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT WARRANTIES: PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE MECHANICAL WORK WITH ELECTRICAL WORK, AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL MECHANICAL EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.

THE PLANS SHOW THE GENERAL ARRANGEMENT AND LOCATIONS OF MECHANICAL WORK. THE CONTRACTOR SHALL COORDINATE THE MECHANICAL INSTALLATION WITH THE STRUCTURE AND ALL OTHER TRADES. PERFORM ALL WORK IN ACCORDANCE WITH CURRENT STATE AND LOCAL CODES. SUBMIT PDF FILES OF MANUFACTURER'S DATA PRIOR TO EQUIPMENT PURCHASES.

COORDINATE THE ACTUAL LOCATION OF ALL MECHANICAL WORK VISIBLE IN FINISHED SPACES WITH THE ARCHITECT. THIS INCLUDES AIR DISTRIBUTION DEVICES, EXPOSED DUCTWORK, THERMOSTATS, HUMIDISTATS, SWITCHES, SENSORS, ETC. ALL THERMOSTATS AND WALL-MOUNTED SENSORS SHALL BE INSTALLED A MAXIMUM OF 48" AFE

THE CONTRACTOR SHALL FURNISH DETAILED SHOP DRAWINGS OF ALL FIRESTOPPING DETAILS TO BE USED FOR BOTH PIPING AND DUCTWORK. ALL FIRESTOPPING DETAILS SHALL BE U.L. LISTED AND SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

WIND ANCHORAGE REQUIREMENTS SHALL BE SUBMITTED FOR ALL CURB MOUNTED EQUIPMENT AND ROOF MOUNTED EQUIPMENT. FASTENERS SHALL BE SELECTED AND DETAILED ON A PROJECT-SPECIFIC BASIS BY A REGISTERED DESIGN PROFESSIONAL. PROVIDE CALCULATIONS FOR UNIT CONNECTIONS TO SUPPORT/CURB, AND FOR SUPPORT/CURB TO STRUCTURE. THE DESIGN WIND SPEED IS 148 MPH.

PROVIDE A TEST AND BALANCE REPORT BY A NEBB CERTIFIED TAB FIRM.

SUBMIT O&M MANUAL AND EQUIPMENT WARRANTIES UPON COMPLETION OF WORK.

#### MECHANICAL IDENTIFICATION MATERIALS:

ENGRAVED PLASTIC-LAMINATE LABELS: PROVIDE ENGRAVING STOCK MELAMINE PLASTIC LABELS FOR PERMENANT MOUNTING ON MECHANICAL EQUIPMENT. INDICATE UNIT NAME, NUMBER, AND ELECTRICAL PANEL SERVING THE EQUIPMENT.

#### <u>PIPING:</u>

PROVIDE PIPING, FITTINGS, HANGERS, AND SUPPORTS AS REQUIRED, AS INDICATED ON DESIGN DOCUMENTS, AND AS FOLLOWS:

REFRIGERANT PIPING: REFRIGERANT PIPING SHALL BE SEAMLESS COPPER SUITABLE FOR A WORKING PRESSURE OF 300 PSIG. FITTINGS SHALL BE WROUGHT COPPER OR BRASS SUITABLE FOR USE WITH HIGH TEMPERATURE SOLDER AND DESIGNED FOR 300 PSIG WORKING PRESSURE. REFRIGERANT PIPING INSULATION SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER, WITH MINIMUM THICKNESSES AS REQUIRED BY IECC TABLE 403.2.10. PIPE INSULATION EXPOSED OUTDOORS SHALL BE COVERED WITH ALUMINUM METAL JACKETS. SUSPEND REFRIGERANT PIPING ON COPPER CLEVIS HANGERS WITH INSULATION SHIELDS. TRAPEZE-MOUNTED PIPING SHALL USE METAL STRUT CLAMPS THAT PROVIDE A CONTINUOUS INSULATION BARRIER AND/OR *CUSH-A-CLAMP* OR EQUAL. PLASTIC STRUT CLAMPS ARE NOT ACCEPTABLE.

HVAC DRAIN PIPING: HVAC DRAIN LINES SHALL BE SCHEDULE 40 PVC WITH SOCKET TYPE FITTINGS AND SOLVENT CEMENT. INDOOR HVAC DRAIN LINES INDOORS SHALL HAVE 1" FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER. SUSPEND INDOOR HVAC DRAIN PIPING ON CLEVIS HANGERS WITH INSULATION SHIELDS. SUPPORT OUTDOOR HVAC DRAIN PIPING ON NON-PENETRATING PIPE PEDESTALS. LOCATE EQUIPMENT AND ASSOCIATED DUCTWORK AND PIPING TO PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES. PVC HVAC DRAIN LINES OUTDOORS SHALL RECEIVE 2 COATS OF WHITE LATEX PAINT TO PREVENT UV DEGRADATION.

#### DUCTWORK AND ACCESSORIES:

DUCTWORK SHOWN ON THE PLANS IS SIZED AND ROUTED BASED ON INFORMATION AVAILABLE DURING THE DESIGN PHASE FOR CEILING HEIGHTS, STRUCTURAL MEMBERS, ETC. ALL DUCT SIZES AND ROUTINGS MUST BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION. WHERE CONFLICTS ARISE, REFER TO THE ENGINEER.

SUPPLY AIR DUCTS AND RETURN AIR DUCTS SHALL BE G90 GALVANIZED STEEL INSULATED WITH 2" THICK R-6.7 FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE FLEXIBLE CONNECTIONS AT ALL UNIT SUPPLY AIR AND RETURN AIR TRUNK DUCTS. ALL DUCTS SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS FOR 2" STATIC PRESSURE RATING.

FIRE DAMPERS (WALLS AND FLOORS): PROVIDE CURTAIN TYPE, HINGED BLADE, VERTICAL AND/OR HORIZONTAL MOUNTING FIRE DAMPERS, SUITABLE FOR DUCT PENETRATION OR OPENING PROTECTION AS REQUIRED ON THE DRAWINGS. STYLE 'A' DAMPERS SHALL BE USED AT WALL REGISTER/GRILLE LOCATIONS. STYLE 'B' DAMPERS SHALL BE USED AT DUCT PENETRATIONS. DAMPERS SHALL MEET THE REQUIREMENTS OF NFPA 90A AND UL-555. FRAME SHALL BE MINIMUM 20 GAUGE GALVANIZED STEEL WITH 165 DEGREE F FUSIBLE LINK. BLADES SHALL BE MINIMUM 24 GAUGE GALVANIZED STEEL. DAMPERS SHALL BE AS MANUFACTURED BY *AIR BALANCE, GREENHECK, NAILOR, NATIONAL CONTROLLED AIR, PHILLIPS-AIRE, PREFCO, RUSKIN, SAFE-AIR* AND *UNITED*.

HVAC DUCT SMOKE DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. ALL DUCT SMOKE DETECTORS MUST BE COMPATIBLE WITH THE FIRE ALARM SYSTEM AND MUST BE CONNECTED TO THE FIRE ALARM SYSTEM FOR NOTIFICATION. ALL FIRE ALARM WIRING AND ASSOCIATED DEVICES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. EACH SMOKE DETECTOR SHALL BE WIRED BY MECHANICAL CONTRACTOR INTO THE RESPECTIVE FAN CONTROL CIRCUIT TO AUTOMATICALLY SHUT DOWN THE FAN UPON SENSING PRODUCTS OF COMBUSTION.

#### AIR DISTRIBUTION DEVICES:

AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM BY *TITUS*, *KRUEGER*, *METALAIRE* OR *PRICE* AND SHALL BE SUBMITTED FOR APPROVAL BEFORE ORDERING. ARCHITECT SHALL APPROVE COLOR AND FINISH OF ALL AIR DISTRIBUTION DEVICES. ALL DEVICES SHALL BE SELECTED FOR NC-20 MAXIMUM NOISE CRITERIA.

#### FANS:

EXHAUST FANS SHALL BE BY GREENHECK, COOK OR PENN. PROVIDE DISCONNECT SWITCH, ROOF CURB, AND BACKDRAFT DAMPER. ALL CURB MOUNTED EQUIPMENT SHALL BE INSTALLED TO MEET SPECIFIED WIND RATING.

#### AIR TREATMENT SYSTEMS:

ALL AIR HANDLERS AND ROOFTOP UNITS SHALL BE EQUIPPED WITH BIPOLAR IONIZATION AIR TREATMENT DEVICES INSTALLED AT THE SUPPLY FAN INLET. AIR TREATMENT DEVICES SHALL BE BY GLOBAL PLASMA SOLUTIONS, PLASMA AIR OR BIOCLIMATIC. DEVICES SHALL BE 24 VAC AND BE CONNECTED TO THE EQUIPMENT CONTROL CIRCUIT.

#### HEAT PUMPS:

SPLIT SYSTEM HEAT PUMPS SHALL BE BY *CARRIER*, *TRANE* OR *DAIKIN*. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE PROGRAMMABLE THERMOSTATS, BUILT-IN ELECTRIC HEATER, AND SINGLE POINT POWER SUPPLY. PROVIDE 4-YEAR EXTENDED WARRANTY ON COMPRESSOR PARTS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR COMPLETE, OPERABLE SYSTEMS.

HP UNITS ON ROOFS SHALL BE ANCHORED TO WELDED ALUMINUM EQUIMPENT STANDS, BASIS OF DESIGN *PRECISION ALUMINUM PRODUCTS*. PROVIDE 1" THICK NEOPRENE VIBRATION ISOLATION PADS FOR ALL OUTDOOR HP UNITS. REFRIGERANT LINE ROOF PENETRATIONS SHALL BE MADE THROUGH PREFABRICATED PIPE PORTALS. EXTEND COPPER REFRIGERANT LINES FROM OUTDOOR UNITS TO INDOOR UNITS.

FLOOR MOUNTED INDOOR UNITS SHALL BE MOUNTED ON WELDED EQUIMPENT STANDS WITH NEOPRENE PAD ISOLATION. SUSPEND A 3" DEEP WATERTIGHT EMERGENCY DRAIN PAN BENEATH EACH UNIT. DRAIN PANS SHALL BE SLIGHTLY SLOPED TO DRAIN WITH 1" EMERGENCY DRAIN LINES. PRIMARY DRAINS SHALL BE FULL SIZE WITH A HVAC DRAIN TRAPS. SECONDARY HVAC DRAIN OPENINGS SHALL BE PLUGGED. ALL AIR HANDLERS SHALL BE PROVIDED WITH RETURN FILTER RACK FOR 2" PLEATED FILTER WITH FILTER DRAWER OR HINGED FILTER DOOR.

DUCTLESS HEAT PUMPS SHALL BE BY MITSUBISHI, CARRIER, TRANE, LG, OR DAIKIN. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE INVERTER-DRIVEN COMPRESSOR, PROGRAMMABLE THERMOSTAT, SINGLE POINT POWER SUPPLY AND WASHABLE FILTERS FOR INDOOR UNITS. PROVIDE 4-YEAR EXTENDED WARRANTY ON COMPRESSOR PARTS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR COMPLETE, OPERABLE SYSTEM.

DHP UNITS ON ROOFS SHALL BE ANCHORED TO WELDED ALUMINUM EQUIMPENT STANDS, BASIS OF DESIGN *PRECISION ALUMINUM PRODUCTS*. PROVIDE 1" THICK NEOPRENE VIBRATION ISOALTION PADS FOR ALL DHP UNITS. REFRIGERANT LINE ROOF PENETRATIONS SHALL BE MADE THROUGH PREFABRICATED PIPE PORTALS. EXTEND COPPER REFRIGERANT LINES FROM OUTDOOR UNITS TO INDOOR UNITS.

#### KITCHEN VENTILATION SYSTEM:

CAPTIVEAIRE IS THE BASIS OF DESIGN MANUFACTURER. EQUIVALENT EQUIPMENT MANUFACTURED BY ACCUREX, GREASEMASTER AND GREENHECK AND SHALL BE ACCEPTABLE.

KITCHEN HOOD: TYPE I GREASE FILTER EXHAUST HOODS: THE KITCHEN HOOD SHALL BE, WHERE EXPOSED, STAINLESS STEEL TYPE 430. THE HOOD SHALL BE THE STANDARD WALL CANOPY TYPE WITH FULL VERTICAL SIDE PANELS. PROVIDE LISTED STAINLESS STEEL 2" THICK PANEL TYPE GREASE FILTERS THE FULL LENGTH OF THE HOOD. FILTERS SHALL HAVE MINIMUM 90% GREASE EXTRACTION EFFICIENCY AT 7 MICRONS. HOODS WITH CEILING MAKEUP AIR PLENUM SHALL HAVE DOUBLE WALL INSULATED FRONT. PROVIDE U.L. LISTED LED LIGHTING IN THE HOOD. A PREWIRED SWITCH PLATE SHALL BE INSTALLED ON THE FACE OF THE HOOD AND SHALL INCLUDE A FAN SWITCH WITH PILOT LIGHT AND A LIGHT SWITCH.PROVIDE AN INTEGRAL KITCHEN HOOD DEMAND CONTROL VENTILATION SYSTEM TO AUTOMATICALLY REDUCE EXHAUST AND SUPPLY AIRFLOWS BASED ON DEMAND. PROVIDE A WALL-MOUNTED UTILITY CABINET FOR HOOD CONTROLS AND FIRE SUPPRESSION SYSTEM.

MAKEUP AIR PLENUM: PROVIDE A MATCHING CEILING MOUNTED STAINLESS STEEL MAKEUP AIR PLENUM WITH FULL LENGTH, FULL PERIMETER PERFORATED FACE DISCHARGE PANELS, INTERNAL INSULATION AND SUPPLY AIR DUCT COLLARS FOR UP TO 90% MAKEUP AIR. SEE PLANS FOR DETAILS. THE OVERALL WIDTH OF THE PLENUM SHALL BE MINIMUM 18 INCHES ALL AROUND.

FIRE SUPPRESSION SYSTEM: FURNISH AN ANSUL WET CHEMICAL SYSTEM PROVIDING COMPLETE FIRE PROTECTION OF DUCT, HOOD, AND COOKING EQUIPMENT SURFACES. INSTALLATION SHALL BE IN COMPLIANCE WITH CHEMICAL MANUFACTURER'S U.L. LISTING. ALL PIPING SHALL BE RUN IN A CONCEALED MANNER. PIPING EXTENDING UP THROUGH CHASE TO DUCT AND HOOD NOZZLES SHALL BE FITTED WITH SLEEVES FORMING GREASE TIGHT JOINTS. EXPOSED PIPING OF SURFACE PROTECTION NOZZLES SHALL HAVE STAINLESS STEEL SLEEVES WITH CHROME PLATED ELBOWS. SYSTEM SHALL BE ACTIVATED BY FUSIBLE LINKS CONNECTED TO AN AUTOMAN RELEASE. FIT AUTOMAN RELEASE WITH AN ELECTRIC DOUBLE-POLE, DOUBLE-THROW MICROSWITCH FOR CONTROL CIRCUIT. SUPPLY FAN SHALL BE SHUT DOWN WHEN FIRE PROTECTION SYSTEM IS ACTIVATED, LEAVING THE EXHAUST FAN RUNNING. PROVIDE A U.L. LISTED MECHANICAL GAS VALVE, TO PROVIDE AUTOMATIC GAS FUEL SHUTOFF FOR ALL GAS OPERATED APPLIANCES PROTECTED BY THE SYSTEM. THE VALVE SHALL INCORPORATE A MANUAL RESET. PROVIDE AUXILIARY FACTORY INSTALLED RELAYS TO AUTOMATICALLY TRIP SHUNT TRIP SAFETY DEVICES FOR ELECTRICALLY OPERATED APPLIANCES PROTECTED BY THE SYSTEM. THE DEVICES SHALL BE AS INDICATED ON THE ELECTRICAL DRAWINGS. ALSO PROVIDE A RELAY TO AUTOMATICALLY SIGNAL THE BUILDING FIRE ALARM SYSTEM. THE CHEMICAL CYLINDERS AND CONTROLS SHALL BE LOCATED IN FIRE CONTROL CABINET WALL MOUNTED IN THE KITCHEN. PROVIDE A REMOTE MANUAL PULL STATION AND INTERLOCK WITH SYSTEM.

GREASE DUCTS: KITCHEN HOOD EXHAUST DUCTS SHALL BE FABRICATED FROM 16 GAUGE BLACK STEEL AND SHALL BE INSULATED WITH TWO LAYERS OF FLEXIBLE FIRE-RATED DUCT WRAP SUITABLE FOR ZERO CLEARANCE TO COMBUSTIBLES. KITCHEN HOOD EXHAUST DUCTWORK JOINTS AND SEAMS SHALL HAVE LIQUID-TIGHT CONTINUOUS EXTERNAL WELD PER NFPA-96. ROUTE KITCHEN HOOD EXHAUST DUCTWORK AS DIRECTLY AS POSSIBLE. HORIZONTAL DUCTWORK MUST SLOPE MINIMUM ¼" PER FOOT TO DRAIN TOWARD THE HOOD. DO NOT CREATE DIPS AND TRAPS WHICH CAN COLLECT RESIDUE. PROVIDE NFPA-96 REMOVABLE DUCT ACCESS DOORS EVERY TWELVE FEET AND AT CHANGES IN DIRECTION. ACCESS DOORS SHALL BE SIZED TO PERMIT DUCT CLEANING. CONFORM TO NFPA-96 FOR LOCATIONS AND INSTALLATION DETAILS. AT THE EXHAUST FAN, INSTALL AN APPROVED FLEXIBLE DUCT CONNECTION.

ALTERNATIVELY, FURNISH DOUBLE WALL FACTORY BUILT GREASE DUCT FOR USE WITH TYPE I KITCHEN HOODS WHICH CONFORMS TO THE REQUIREMENTS OF NFPA-96. PRODUCTS SHALL BE ETL LISTED TO UL-1978 AND UL-2221 FOR VENTING AIR AND GREASE VAPORS FROM COMMERCIAL COOKING OPERATION. THE DUCT WALL ASSEMBLY SHALL BE TESTED AND LISTED AT <sup>3</sup>/<sub>4</sub>" OR ZERO CLEARANCE, ACCORDING TO CLASSIFICATIONS. GREASE DUCT SHALL BE BY AMPCO, CAPTIVEAIRE, GREASEMASTER, SELKIRK OR METAL-FAB.

KITCHEN EXHAUST FAN: THE EXHAUST FAN SHALL BE U.L. LISTED FOR GREASE DUCT USE AND SHALL BE THE UPBLAST TYPE WITH DIRECT-DRIVEN FAN WITH BACKWARD-INCLINED BLADES, CONTAINING A BUILT-IN GREASE TROUGH AND HAVING A REMOVABLE COVER. NO BIRDSCREENS OR BACKDRAFT DAMPERS WILL BE PERMITTED PER NFPA 96. PROVIDE DISCONNECT SWITCH. FURNISH SUPPORT CURB SUITABLE FOR THE ROOF SLOPE WITH SUFFICIENT HEIGHT TO COORDINATE WITH REQUIRED EXHAUST DUCT LOCATION. PROVIDE VIBRATION ISOLATION FOR FAN. FANS SHALL BE CAPABLE OF RESISTING 148 MPH WIND LOAD.

KITCHEN SUPPLY FAN: THE MAKEUP AIR SUPPLY FAN SHALL BE THE OUTDOOR TYPE AND SHALL BE ETL LISTED. UNIT SHALL BE THE FILTERED, VERTICAL DISCHARGE TYPE AS SHOWN ON DRAWINGS. UNIT SHALL BE OF INTERNAL FRAME TYPE CONSTRUCTION WITH G90 GALVANIZED STEEL FRAMES AND PANELS. METAL-TO-METAL SURFACES EXPOSED TO WEATHER SHALL BE SEALED. ALL COMPONENTS SHALL BE ACCESSIBLE THROUGH REMOVABLE OR HINGED DOORS. UNIT CASING SHALL BE INSULATED WITH 1 INCH FIBERGLASS LINER IN ACCORDANCE WITH NFPA 90A AND TESTED TO MEET UL 181 EROSION REQUIREMENTS. SECURE INSULATION WITH WATERPROOF ADHESIVE AND PERMANENT MECHANICAL FASTENERS.

	SPLIT SYSTEM AIR SOURCE HEAT PUMP													
	OUTSIDE	FAN		EVAPORATOR COOLING COOL @ 95°F O.A.			ELECTRIC							
UNIT ID	AIRFLOW	DESIGN AIRFLOW (CFM) (IN. WG)		TOTAL	SENSIBLE	ENTERING AIR		HEATER	VOLT	PH	SEER2	SEACOAST PROTECTION	BASIS OF DESIGN	
	(CFM)		(MBH)	(MBH)	DB (°F)	WB (°F)	(KW)							
AH-1 HP-1	210	1400	0.50	42	30	80	67	6.0	208	1	14.3	Yes	CARRIER FJ4D / 25SCA	
AH-2 HP-2	300	2000	0.50	60	42	80	67	7.5	208	1	14.3	Yes	CARRIER FJ4D / 25SCA	

REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
 PROVIDE AIR TREATMENT DEVICE(S) FOR EACH AH UNIT.

3. PROVIDE DUCT SMOKE DETECTORS. INSTALL SMOKE DETECTORS ON SUPPLY DUCTWORK AT EACH AIR HANDLER

	DUCTLESS HEAT PUMP SCHEDULE										
UNIT ID	TYPE	FAN DESIGN	EVAPORATOR COOLIN		IG COIL @ 95°F O.A. ENTERING AIR			VOLT	PH	SEACOAST	BASIS OF DESIGN
		AIRFLOW (CFM)	TOTAL (MBH)	SENSIBLE - (MBH)	DB (°F)	WB (°F)	(MBH)	VULI		PROTECTION	BAGIO OF BEGION
DAH-1 DHP-1	WALL-MOUNTED	775	30	21	80	67	32	208	1	YES	MITSUBISHI PKA/PUZ
DAH-2 DHP-2	WALL-MOUNTED	775	30	21	80	67	32	208	1	YES	MITSUBISHI PKA/PUZ

REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
 PROVIDE AIR TREATMENT DEVICE(S) FOR EACH AH UNIT.

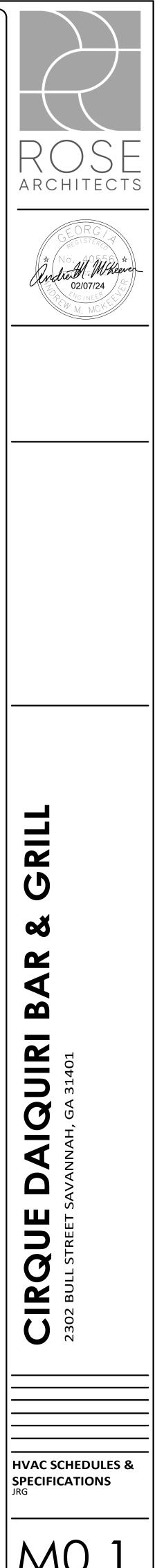
FAN SCHEDULE											
UNIT ID	UNIT TYPE	DESIGN AIRFLOW (CFM)	ESP (IN. WG)	DRIVE TYPE	RPM	Motor Power (HP)	INLET SONES	VOLT	PH	BASIS OF DESIGN	NOTES
EF-1	PRV	150	0.25	DIRECT	1258	0.1	2.5	120	1	GREENHECK G-VG	TIMECLOCK
KEF-1	GREASE RATED UPBLAST	2330	1.50	DIRECT	1205	1.5	16	208	3	ECON-AIR	DCV
KSF-1	FILTERED SUPPLY FAN	2097	0.50	DIRECT	1927	1.5	26	208	3	ECON-AIR	DCV

1. REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.

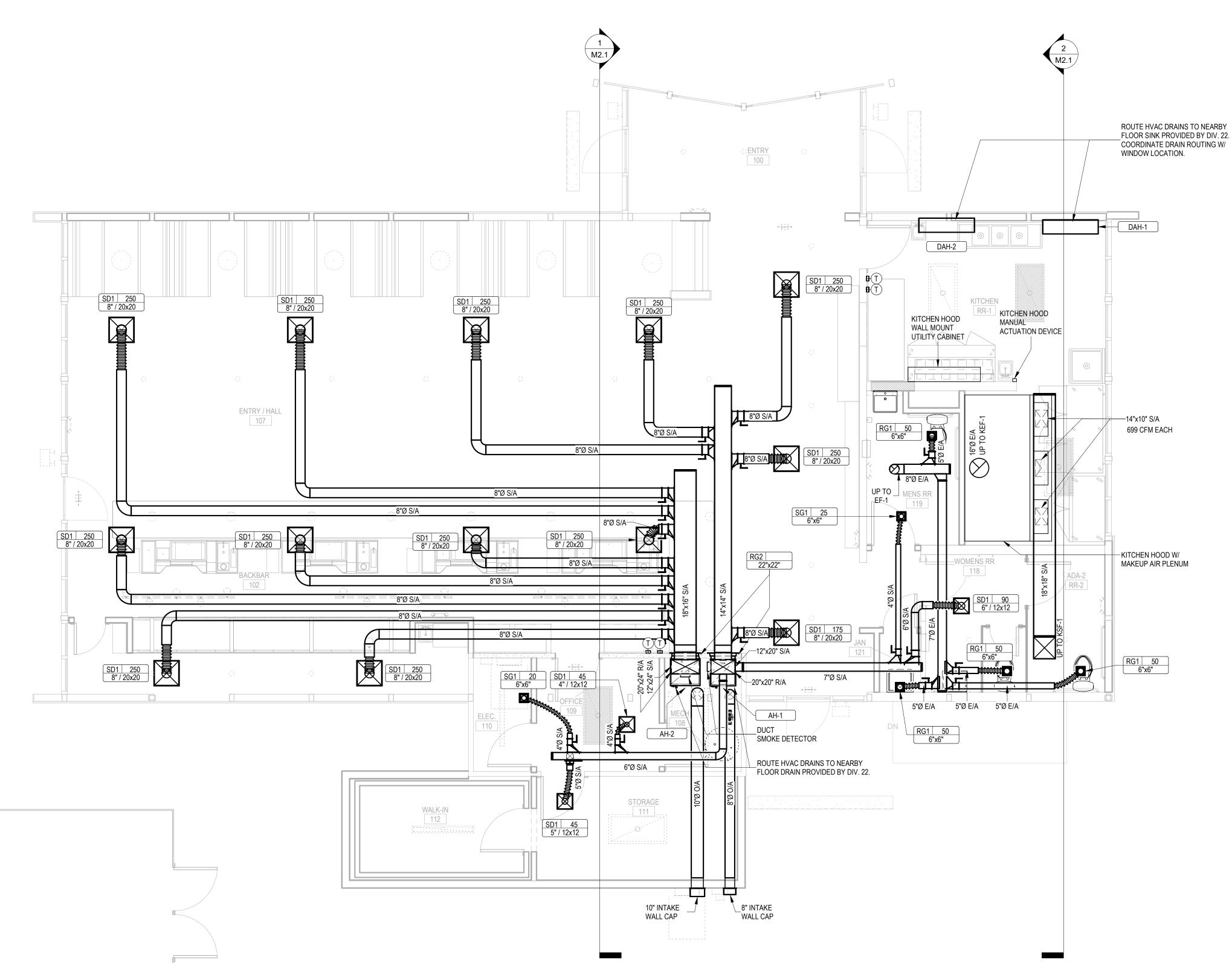
EF-1 SHALL INTERLOCK WITH ASSOCIATED TIMECLOCKS TO RUN CONTINUOUSLY DURING OCCUPIED HOURS.
 KEF-1,KSF-1 SHALL INTERLOCK WITH DCV AND KITCHEN HOOD OPERATION.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE										
ID DESCRIPTION	DECODIDITION	FACE NECK								
	DESCRIPTION	SIZE	SIZE	WIDTH	HEIGHT	INSTALLATION TYPE	MATERIAL	BASIS OF DESIGN		
RG1	EGGCRATE RETURN GRILLE			6"	6"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 50F		
RG2	LOUVERED FILTER GRILLE			22"	22"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 350FLF		
SD1	PLAQUE FACE DIFFUSER	12x12	4"			SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS OMNI-AA		
SD1	PLAQUE FACE DIFFUSER	12x12	5"			SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS OMNI-AA		
SD1	PLAQUE FACE DIFFUSER	12x12	6"			SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS OMNI-AA		
SD1	PLAQUE FACE DIFFUSER	20x20	8"			SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS OMNI-AA		
SG1	LOUVERED DOUBLE DEFLECTION GRILLE			6"	6"	SURFACE MOUNT INSTALLATION	ALUMINUM	TITUS 300FS		

1. PROVIDE OPPOSED BLADE DAMPERS FOR CEILING DIFFUSERS LOCATED ABOVE GYP. BOARD CEILINGS OR MOUNTED ON WALLS.







1 HVAC PLAN M1.1 1/4" = 1'-0"

#### HVAC SHEET NOTES

- A CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- B INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
- C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
- D ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
- E PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
- F INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
- G ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE
- INSULATION. SEAL ALL JOINTS AND PENETRATIONS. H COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
- CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.
- J THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- K THIS DRAWING IS BASED ON VISUALLY OBSERVABLE EXISTING CONDITIONS AS OF THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE TO FULLY VERIFY ALL EXISTING CONDITIONS, COMPONENTS, ETC. PRIOR TO THE START OF THE WORK. ANY DEVIATION FROM THIS DRAWING IN KIND, OR IN LOCATION EXCEEDING 1'-0", SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.





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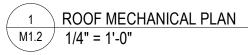
HVAC PLAN

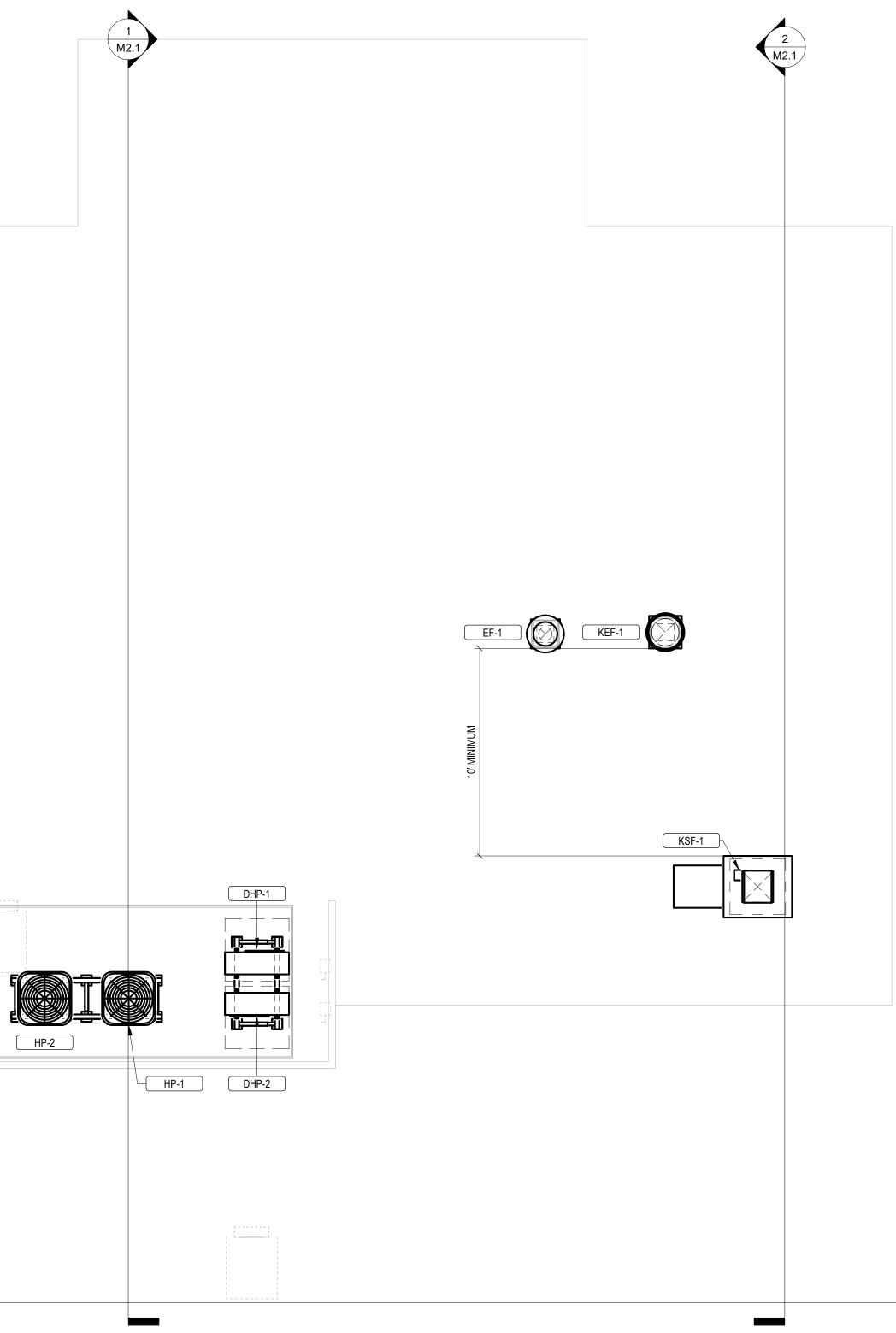
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# HVAC SHEET NOTES

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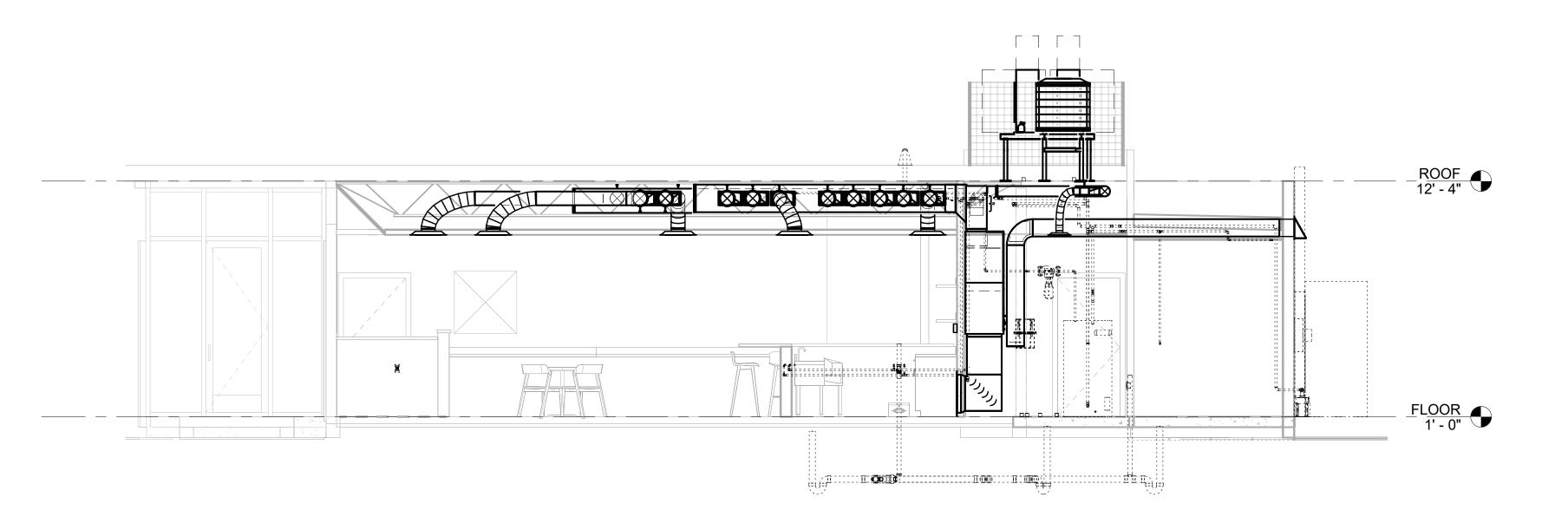
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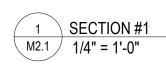
ROOF HVAC PLAN

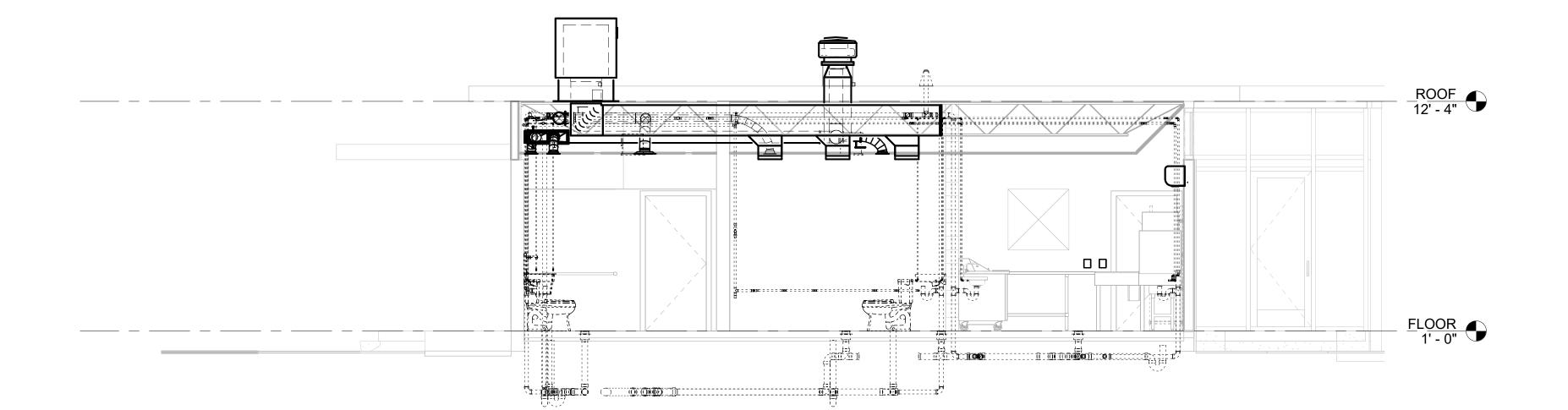
M1.2



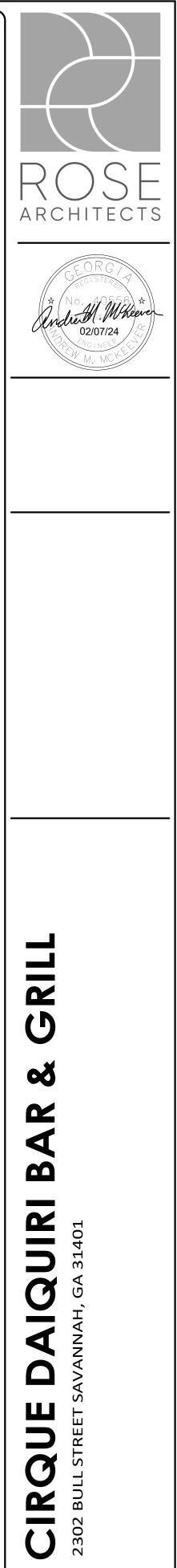






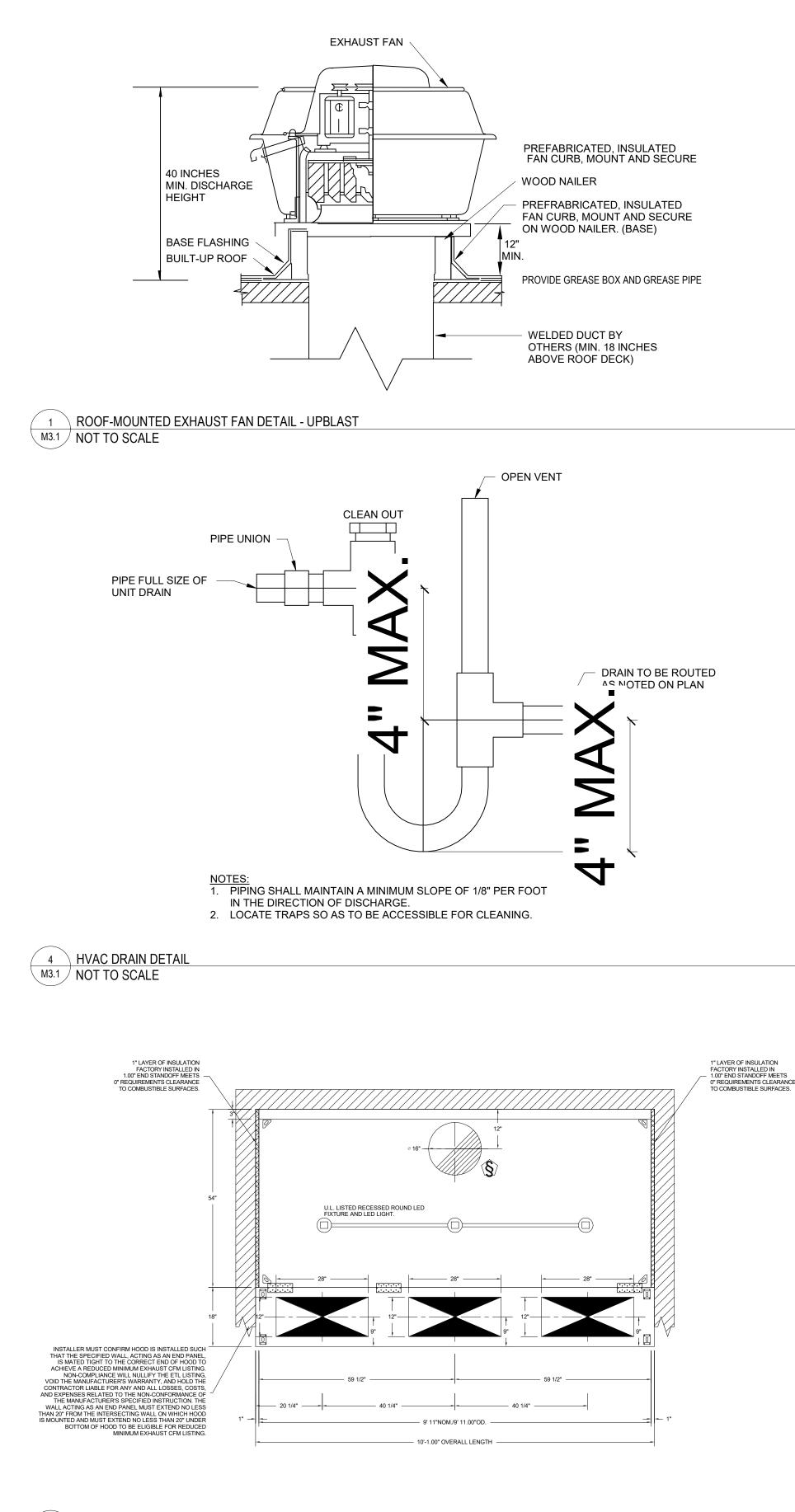


2 SECTION #2 M2.1 1/4" = 1'-0"



MECHANICAL SECTIONS JRG

M2.1



HOOD DETAIL PLAN VIEW 7 M3.1 NOT TO SCALE

8 HOOD DETAIL SECTION VIEW M3.1 NOT TO SCALE

HANGING ANGLE.

20" CAPTRATE SOLO FILTER WITH HOOK.

3" INTERNAL STANDOFF.

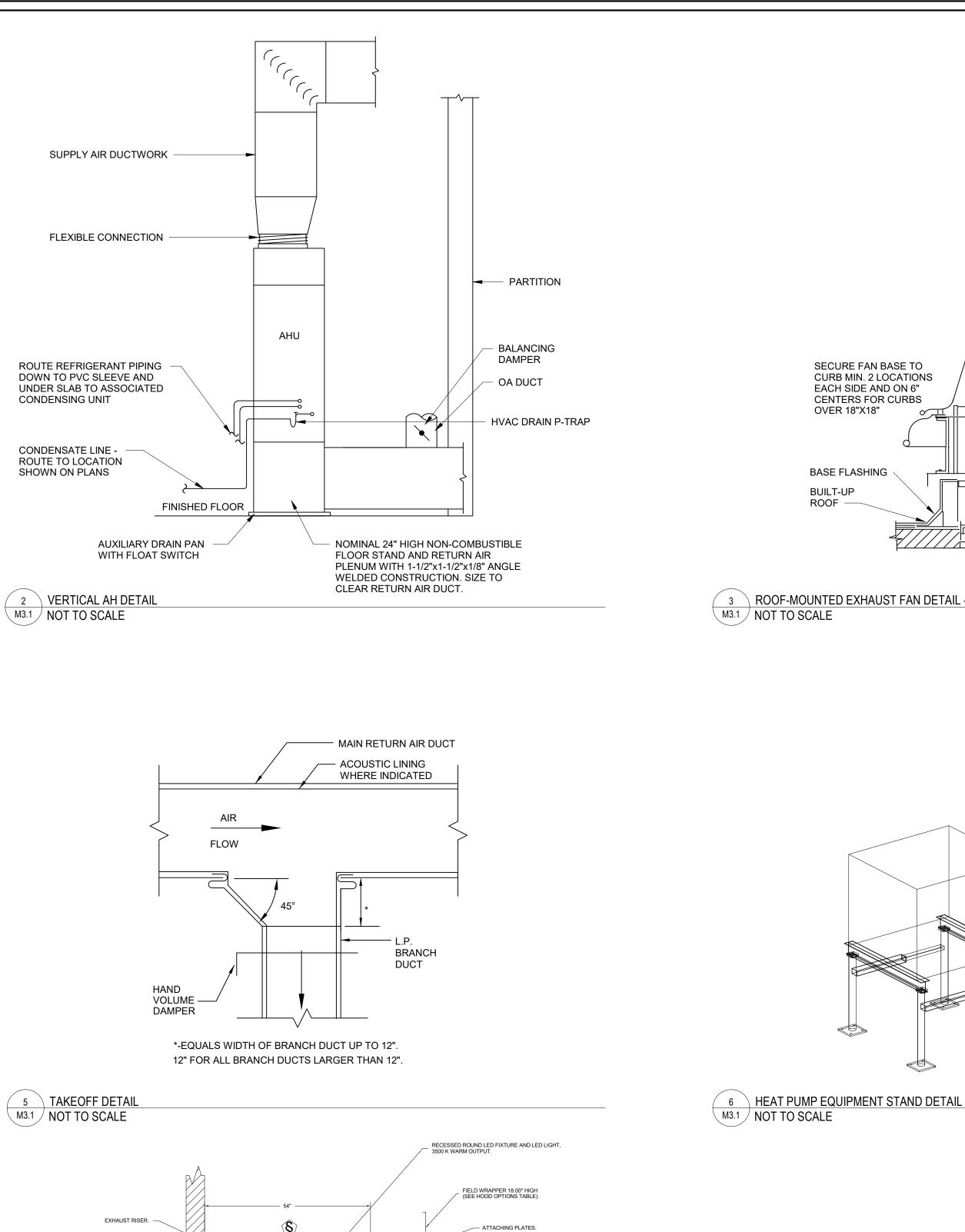
IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.

LEFT AND RIGHT WALL AS END PANELS.

SEE HOOD TABLE

BACKSPLASH 80.00" HIGH X 121.00" LONG.

EQUIPMENT BY OTHERS.



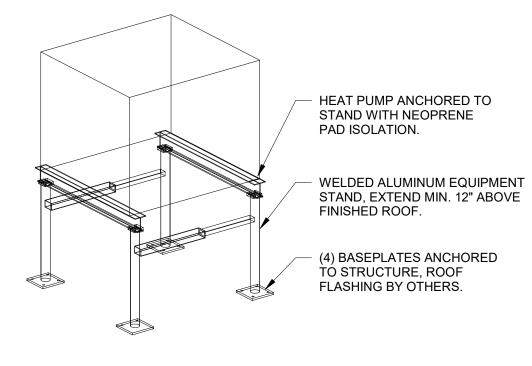
SUPPLY RISER WITH VOLUME DAMPER.

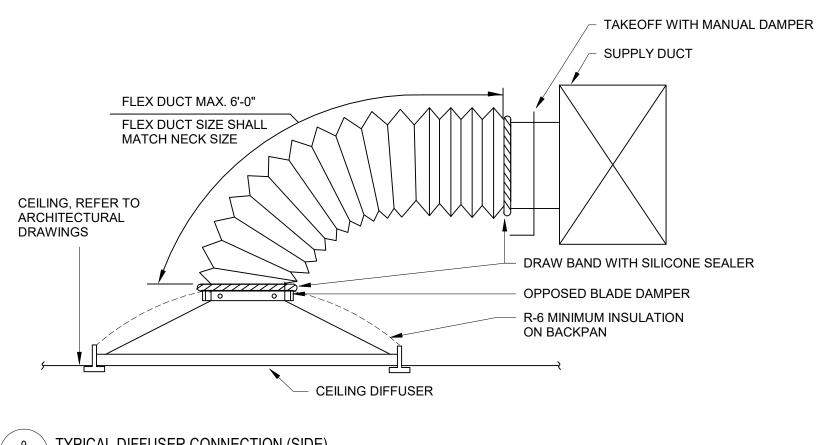
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— 18" — <del>-</del>

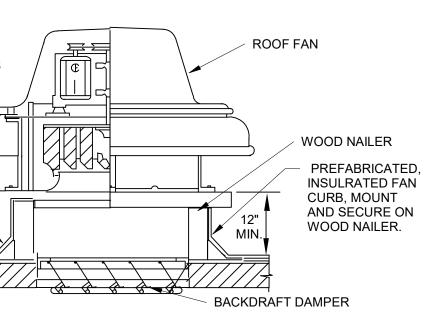
48.0" MAX.

23.5% OPEN STAINLESS STEEL PERFORATED PANEL.



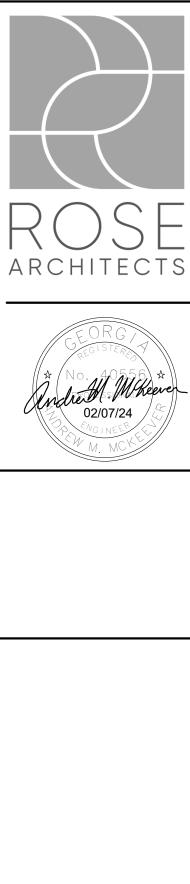


9 TYPICAL DIFFUSER CONNECTION (SIDE) M3.1 NOT TO SCALE







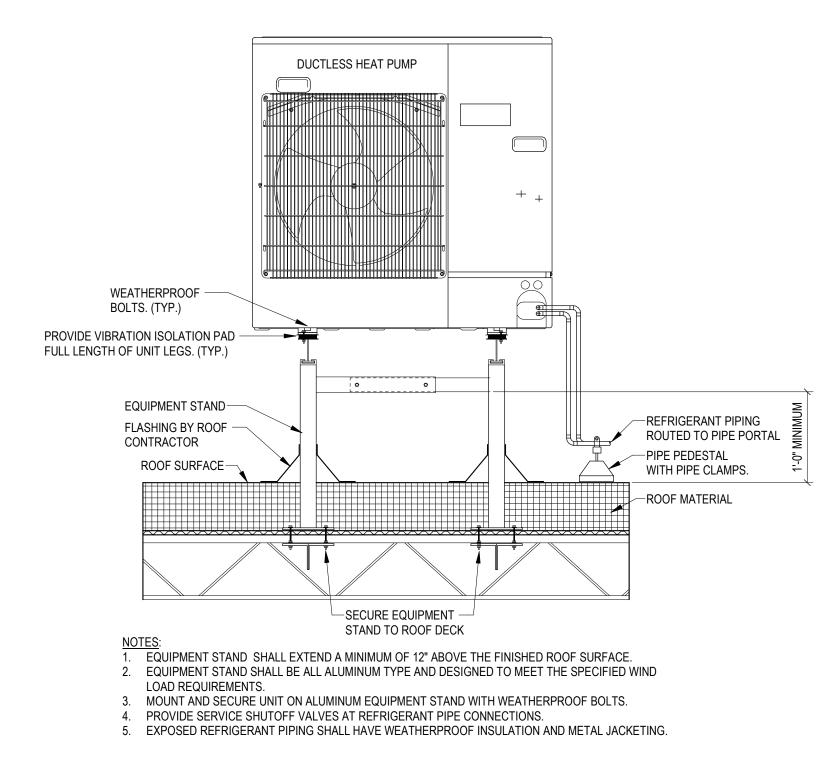


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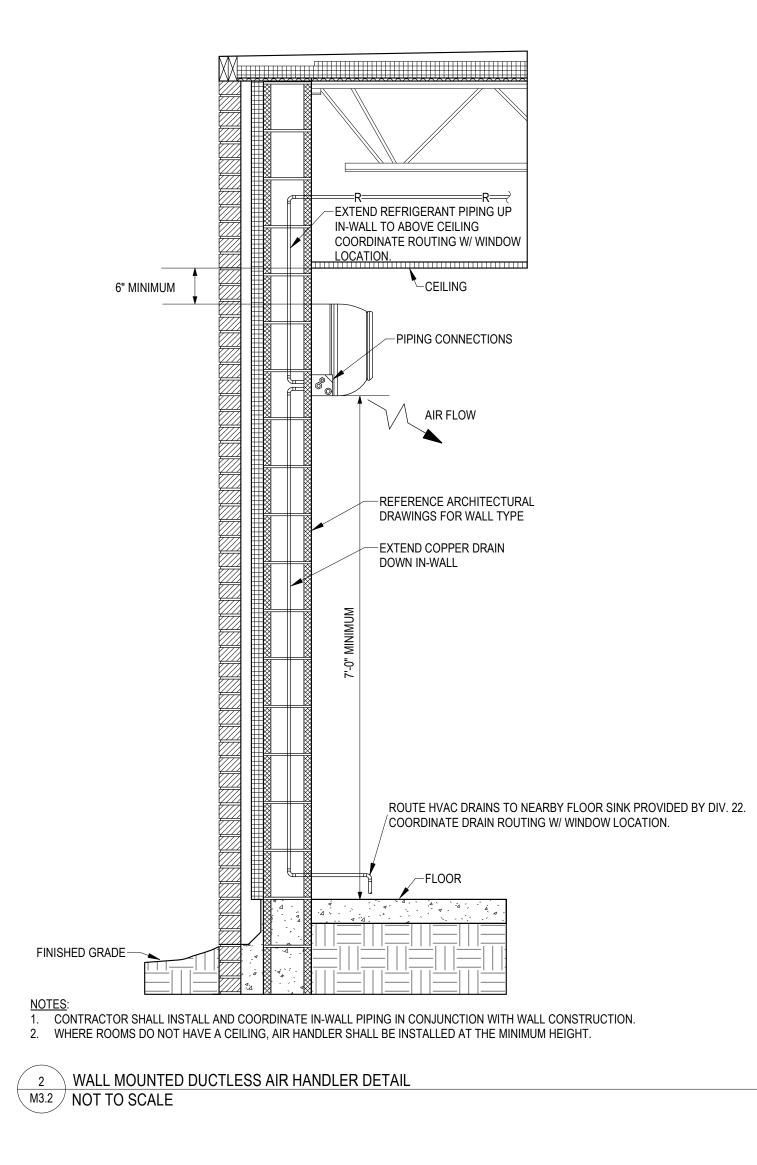
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**HVAC DETAILS** 





1 DUCTLESS HEAT PUMP DETAIL M3.2 NOT TO SCALE





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HVAC DETAILS

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M3.2

# **ELECTRICAL SPECIFICATIONS**

# 1. GENERAL

- A. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL WORK OF THIS SECTION. ALL MATERIALS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS AND SHALL BE UL LISTED.
- B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE (NEC 2020 EDITION), STATE LAWS AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- C. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- D. ALL ELECTRICAL JUNCTION BOXES, PANELBOARDS, CABLING, RECEPTACLES SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER.
- E. THE CONTRACTOR SHALL GIVE ALL NOTICES. OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT TAXES. FEES. DEPOSITS AND OTHER COSTS IN CONNECTION WITH HIS WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN NECESSARY APPROVALS OF ALL AGENCIES HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION AND APPROVALS FOR WORK.
- F. STORE MATERIALS AND EQUIPMENT ON PREMISES WHERE DIRECTED BY THE OWNER.
- G. THE CONTRACTOR SHALL COOPERATE TO THE FULLEST WITH ALL OTHER TRADES. THE CONTRACTOR SHALL PLAN HIS WORK IN SUCH A WAY, AND FURNISH ALL NECESSARY EQUIPMENT AND INFORMATION TO THE OTHER TRADES SO AS NOT TO DELAY ANY OTHER TRADE OR HINDER THE PROGRESS OF WORK.
- H. ANY CONTRADICTIONS BETWEEN THE WRITTEN SPECIFICATIONS AND DRAWINGS SHALL BE CONSIDERED AMBIGUOUS, AND WILL BE THE RESPONSIBILITY OF THE BIDDER TO SECURE CLARIFICATION PRIOR TO BIDDING.
- I. SUBMITTALS
- a. SUBMIT MANUFACTURERS TECHNICAL PRODUCT DATA AND LITERATURE FOR ALL MATERIALS SPECIFIED HEREIN. INDICATE AND HIGH LIGHT ON THE SUBMITTALS DETAILS OF ALL ITEMS TO INDICATE CORRECT INTERPRETATION OF THE CONTRACT DOCUMENTS. b. SUBMITTALS SHALL BE SUBMITTED VIA ELECTRONIC FORMAT (PDF).

# 2. PRODUCTS:

- A. ALL MATERIALS SHALL CONFORM TO U.L. & NEMA REQUIREMENTS AND SHALL BE AS SPECIFIED OR "PRIOR APPROVED EQUAL" BY THE ENGINEER.
- B. RACEWAY SYSTEM
- a. ALL CONDUITS AND RACEWAYS SHALL BE INSTALLED CONCEALED IN FINISHED SPACES. CONCEALED CONDUITS SHALL BE EMT, IMC OR RGS. ROUTE ALL CONDUITS AND RACEWAYS PARALLEL AND PERPENDICULAR TO THE STRUCTURE AND SUPPORT AS REQUIRED BY THE NEC.
- b. ALL RACEWAYS SHALL BE RGS OR IMC WHERE EXPOSED TO DAMAGE AND PUBLIC IN UNFINISHED SPACES. RACEWAYS SHALL BE SURFACE METAL
- RACEWAY (WIREMOLD) WHERE EXPOSED TO DAMAGE AND PUBLIC IN FINISHED SPACES. c. ALL EXPOSED EXTERIOR OR WET LOCATED BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE RGS OR IMC CONDUIT
- d. ALL RACEWAYS SHALL BE 1/2" MINIMUM SIZE. e. ALL UNDERGROUND BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE PVC CONDUIT.
- f. CONNECTORS/COUPLINGS FOR USE WITH EMT CONDUIT SHALL BE STEEL COMPRESSION TYPE, EXCEPT THAT STEEL, SET SCREW TYPE WILL BE
- ACCEPTABLE FOR EMT CONDUIT SIZES 2-1/2" AND LARGER g. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH FIRE RATED CAULK TO PREVENT TRANSFER OF SMOKE,
- WATER AND DUST h. FLEXIBLE METAL CONDUIT WITH APPROVED TYPE FITTINGS MAY BE USED IN LIMITED LENGTHS FOR CONNECTIONS TO MOTORS AND RECESSED FIXTURES
- WHERE IT IS NECESSARY TO PROVIDE FLEXIBLE CONNECTIONS.
- METAL-CLAD CABLE IS ALLOWED WHERE PERMITTED IN NEC. HOMERUNS TO PANEL SHALL BE IN EMT. PROVIDE 200# NYLON PULLSTRING IN ALL EMPTY RACEWAY.

# C. BOXES

- a. PROVIDE GALVANIZED STEEL OUTLET BOXES WITH STAMPED KNOCKOUTS FOR INTERIOR DRY LOCATIONS.
- b. PROVIDE CAST ALUMINUM BOX FOR ALL EXTERIOR WET LOCATIONS. c. INTERIOR FLUSH BOXES SHALL BE 4" SQUARE BY 1-1/4" DEEP. INTERIOR FLUSH BOXES FOR COMMUNICATION OUTLETS AND GFCI OUTLETS SHALL BE 4-11/16" SQUARE BY 2-1/8" DEEP.
- PROVIDE SINGLE GANG TILE COVERS UNLESS REQUIRED OTHERWISE.
- e. BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS. f. ATTACH EMT CONDUIT WITH CONNECTORS WITH INSULATED THROATS.

# D. WIRE AND CABLES

- a. PROVIDE AND INSTALL ALL WIRING AND CABLE AS REQUIRED TO CONNECT ALL ELECTRICAL EQUIPMENT AND DEVICES INDICATED ON THE PLANS. b. ALL CONDUCTORS #10 GAUGE AND SMALLER SHALL BE SOLID COPPER, 75°C TYPE THHN OR THWN, 600V INSULATION.
- c. ALL CONDUCTORS #8 GAUGE AND LARGER SHALL BE STRANDED COPPER, 75°C TYPE THHN OR THWN, 600V INSULATION.
- d. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG. e. CONDUCTORS SHALL BE COLOR CODED BLACK/RED FOR 120/240 VOLT SYSTEMS FOR A, B AND C PHASES. NEUTRAL SHALL BE WHITE FOR 120/240V. GROUND CONDUCTOR SHALL BE GREEN.

# F. WIRING DEVICES

- a. PROVIDE WIRING DEVICES PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: HUBBELL, LEVITON, LEGRAND, LUTRON OR EATON. b. RECEPTACLES SHALL BE SPECIFICATION GRADE HEAVY-DUTY TYPE RECEPTACLES 2-POLE, 3-WIRE GROUNDING, SIDE WIRING, NEMA 5-20R, 20-AMP, 125 VOLTS, UNLESS SHOWN OTHERWISE
- WEATHERPROOF COVERS SHALL BE "WHILE-IN-USE" COVERS
- d. LIGHT SWITCHES SHALL BE RATED 20 AMPS, 120V AC RATED.
- e. ADJACENT DEVICES SHALL HAVE A COMMON FACEPLATE. f. OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL BE MANUFACTURER'S RECOMMENDED SIZE AND MODEL FOR EACH SPACE. EXACT LOCATION OF SENSORS SHALL BE AS DETERMINED BY MANUFACTURER IN SHOP DRAWING. ACCEPTABLE SENSOR MANUFACTURERS: HUBBELL BUILDING AUTOMATION, WATTSTOPPER, COOPER, AND ACUITY.
- g. FINISH OF ALL WIRING DEVICES SHALL BE COORDINATED WITH ARCHITECT WITH MID-SIZE 302 STAINLESS STEEL COVERS.

# F. LIGHTING FIXTURES

- a. CONTRACTOR SHALL PROVIDE ALL LIGHTING FIXTURES AS INDICATED ON THE FIXTURE SCHEDULE. SERIES NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY. ALL RELATED ITEMS FOR A COMPLETE SYSTEM SHALL BE INCLUDED.
- b. LED FIXTURES SHALL HAVE A L70 RATING OF AT LEAST 50.000 HOURS. LED FIXTURES AND DRIVERS SHALL HAVE A 5 YEAR WARRANTY.
- d. PROVIDE FIXTURES WITH PROPER FRAMES FOR CEILING TYPES INDICATED ON THE REFLECTED CEILING PLAN. e. EMERGENCY FIXTURES SHALL BE PROVIDED WITH FACTORY INSTALLED WITH 1000 LUMEN EMERGENCY BATTERY PACKS, UNO.

# G. PANELBOARDS

- a. ACCEPTABLE MANUFACTURERS ARE GE, SIEMENS, SQUARE D, OR EATON.
- PROVIDE PANELBOARDS OF THE TYPE. SIZE, AND RATING INDICATED ON PANEL SCHEDULES COMPLETE WITH REQUIRED CIRCUIT BREAKERS. LIGHTING AND APPLIANCE TYPE PANELBOARDS SHALL BE A MINIMUM OF 20" WIDE.
- d. ALL BUSBARS, INCLUDING NEUTRAL AND GROUND BUSBARS, SHALL BE COPPER.
- e. CIRCUIT BREAKERS SHALL BE BOLT-IN TYPE, HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK MOLDED CASE CIRCUIT BREAKERS. MULTI-POLE BREAKERS SHALL BE COMMON TRIP WITH A SINGLE HANDLE. PROVISIONS FOR FUTURE BREAKERS SHALL BE FULLY BUSSED COMPLETE WITH ALL NECESSARY MOUNTING HARDWARF
- PANELS SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT LISTED ON THE PANEL SCHEDULE. PROVIDE LAMINATED PLASTIC NAMEPLATE.
- h. PROVIDE NEW/UPDATED TYPED SCHEDULES FOR ALL PANELBOARDS. SPARE CIRCUIT BREAKERS SHALL BE LABELED SPARE AND IN THE OFF POSITION.

# H. GROUNDING

- a. THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED BY THE NATIONAL ELECTRIC CODE. ALL GROUND SYSTEMS AND CONNECTIONS SHALL BE MECHANICALLY SECURE AND ELECTRICALLY CONTINUOUS.
- b. PROVIDE ELECTRICAL BRAZING OR EXOTHERMIC CONNECTORS AND TERMINALS. BOLTED CLAMP WILL NOT BE ACCEPTED BETWEEN GROUNDING RODS AND GROUND CONDUCTORS
- c. BOND EQUIPMENT GROUNDING CONDUCTORS TO ALL OUTLET BOXES WITH A SCREW USED FOR NO OTHER PURPOSE d. CONNECT EQUIPMENT GROUNDING CONDUCTOR TO DEVICE GROUNDING TERMINALS.
- e. PROVIDE BARE OR GREEN INSULATED STRANDED COPPER SIZED ACCORDING TO NEC OR AS SHOWN. f. GROUND RODS SHALL BE 3/4" DIAMETER X 10' COPPER-CLAD STEEL, SECTIONAL TYPE.

# DISCONNECT SWITCHES

- a. ACCEPTABLE MANUFACTURERS ARE GE, SIEMENS, SQUARE D, OR EATON.
- b. PROVIDE HEAVY DUTY TYPE, SHEET STEEL ENCLOSED SAFETY SWITCHES, INCORPORATING QUICK-BREAK TYPE SWITCHES. c. ALL SWITCHES SHALL BE UL LISTED.
- d. DISCONNECTS SHALL BE NON-FUSED TYPE, UNO.
- J. SPD
- a. PROVIDE SPD UNITS INTERNAL TO POWER DISTRIBUTION EQUIPMENT.
- b. SPD FOR SERVICE EQUIPMENT SHALL BE AS FOLLOWS: SINGLE PULSE SURGE CAPACITY PER MODE: 80,000 AMPS AND MODES: L-L, L-N, AND L-G. c. ALL UNITS SHALL HAVE THE FOLLOWING FEATURES: PHASE LED INDICATOR LIGHTS, DISTURBANCE COUNTER, 5-YEAR REPAIR/REPLACEMENT WARRANTY FROM MANUFACTURER IN THE NAME OF THE OWNER.

# EXECUTION

- A. WORKMANSHIP a. ALL WORK SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER AND IN STRICT ACCORDANCE WITH CODE REQUIREMENTS AND THE RESPECTIVE MANUFACTURER'S INSTRUCTIONS.
- B. TEMPORARY POWER
- a. FURNISH AND INSTALL TEMPORARY LIGHT AND POWER AS MAY BE REQUIRED BY ALL TRADES.
- C. SUPPORTS
- a. PROVIDE ALL MATERIALS AND LABOR REQUIRED TO ADEQUATELY SUPPORT, BRACE AND STRENGTHEN EQUIPMENT AND MATERIALS FURNISHED AS PART OF THIS WORK. b. ALL RACEWAYS, BOXES, ETC., SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE, INDEPENDENT OF DUCT, PIPING OR OTHER WORK.
- D. BRANCH CIRCUITS
- a. PROVIDE ALL CONDUITS, OUTLETS, BOXES, WIRES, SWITCHES, RECEPTACLES, ETC., FOR A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS. b. CONTRACTOR SHALL CAREFULLY CHECK MECHANICAL DRAWINGS AND SPECIFICATIONS TO ESTABLISH EXTENT OF POWER TO BE PROVIDED.

# F. CLEANING

a. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ALL WASTE, SURPLUS MATERIALS, OR DEBRIS WHICH IS CAUSED BY HIS EMPLOYEES OR RESULTING FROM HIS WORK. b. AFTER ALL EQUIPMENT AND DEVICES HAVE BEEN INSTALLED, REMOVE ALL LABELS, STICKERS, STAINS, TEMPORARY COVERS, ETC. c. PROVIDE IDENTIFICATION PLATES ON ALL EQUIPMENT.

	1P 4 amp	1 POLE (2P, 3P, 4P, ETC.)
	A, AIVIF AC	AMPERE ABOVE COUNTER ABOVE CEILING
	ADO	AUTOMATIC DOOR OPENER
		AMP FRAME ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE ARC FAULT CIRCUIT
		INTERRUPTER
	AHU AL	AIR HANDLING UNIT ALUMINUM
	ALT	ALTERNATE
	AMP AMPL	AMPERE AMPLIFIER ANNUNCIATOR
		ANNUNCIATOR APPROXIMATELY
	AQ-STAT	AQUASTAT
	AS	ARCHITECT, ARCHITECTURAL AMP SWITCH
	AT ATS	AMP TRIP AUTOMATIC TRANSFER SWITCH AUTOMATIC AUXILIARY
	AUTO	AUTOMATIC
	AV	AUDIO VISUAL
	AWG BATT	AMERICAN WIRE GAUGE BATTERY
	BD	BOARD
	BLDG BMS	BOARD BUILDING BUILDING MANAGEMENT SYSTEM CONDUIT
	C CAB	
	CAT	CATALOG
	CATV CB	CABLE TELEVISION CIRCUIT BREAKER
	CB CCTV CKT	CLOSED CIRCUIT TELEVISION CIRCUIT
	CLG	CEILING
	COMB CMPR	COMBINATION COMPRESSOR
	CONN CONST	CONNECTION CONSTRUCTION
	CONT	CONTINUATION OR CONTINUOUS
	CONTR CONV	CONTRACTOR CONVECTOR
	CP CRT	CIRCULATING PUMP CATHODE-RAY TUBE
	CT	CURRENT TRANSFORMER
	CTR CU	CENTER COPPER
	DCP DEPT	DOMESTIC WATER CIRCULATING PUMP DEPARTMENT
	DET	DETAIL
	DIA DISC	DIAMETER DISCONNECT
	DIST DN	DISTRIBUTION DOWN
	DPR	DAMPER
	DS DT	SAFETY DISCONNECT SWITCH DOUBLE THROW
	DWG EC	DRAWING ELECTRICAL CONTRACTOR
	ELEC	ELECTRIC, ELECTRICAL
	ELEV ELU	ELEVATOR EMERGENCY LIGHTING UNIT
	EM	EMERGENCY ENERGY MANAGEMENT SYSTEM
	EMT	ELECTRICAL METALLIC TUBING
	EP EQUIP	ELECTRIC PNEUMATIC EQUIPMENT
	EWC	ELECTRIC WATER COOLER EXISTING
	EXH	EXHAUST
	EXP FA	EXPLOSION PROOF FIRE ALARM
	FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL
	FACP	FIRE ALARM CONTROL PANEL
	FCU FIXT	FAN COIL UNIT FIXTURE
	FLR	FLOOR FLUORESCENT
	FU	FUSE
	FUDS GA	FUSED SAFETY DISCONNECT SWITCH GAUGE
	GAL	GALLON GALVANIZED
	GALV GC	GENERAL CONTRACTOR
	GEN GFI	GENERATOR GROUND FAULT CIRCUIT INTERRUPTER
	GFP GND	GROUND FAULT PROTECTOR GROUND
	GRS	GALVANIZED RIGID STEEL (CONDUIT)
		GYPSUM BOARD HANDS-OFF-AUTOMATIC SWITCH
	Horiz Hp	HORIZONTAL HORSEPOWER
	HPF	HIGH POWER FACTOR
	HT HTG	HEIGHT HEATING
	HTR HV	HEATER HIGH VOLTAGE
	HVAC	HEATING, VENTILATING AND AIR
	IC	CONDITIONING INTERRUPTING CAPACITY
	IG IMC	ISOLATED GROUND INTERMEDIATE METAL CONDUIT
	INCAND	INCANDESCENT
	IR I/W	INFRARED INTERLOCK WITH
	J-BOX KV	JUNCTION BOX KILOVOLT
	KVA KVAR	KILOVOLT-AMPERE KILOVOLT-AMPERE REACTIVE
	KW	KILOWATT
	KWH LOC	KILOWATT HOUR LOCATE OR LOCATION
	LT LTG	LIGHT LIGHTING
	LTNG	LIGHTNING
	LV MAX	LOW VOLTAGE MAXIMUM
	MAG.S M/C	MAGNETIC STARTER MOMENTARY CONTACT
	MC	MECHANICAL CONTRACTOR
Ì		

# **ELECTRICAL ABBREVIATIONS LIST**

	MCB MCC MDP MFR MFS MH MIC MIN MISC MLO MMS MOA MSP MSBD MT MT.C MTS MTR N.C. NEC NEMA	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION CENTER MAIN DISTRIBUTION PANEL MANUFACTURER MAIN FUSED DISCONNECT SW MANHOLE MICROPHONE MINIMUM MISCELLANEOUS MAIN LUGS ONLY MANUAL MOTOR STARTER MULTIOUTLET ASSEMBLY MOTOR STARTER PANELBOARD MAIN SWITCHBOARD MOUNT EMPTY CONDUIT MANUAL TRANSFER SWITCH MOTOR, MOTORIZED NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NON-FUSED SAFETY DISCONNECT SWITCH
	NIC NL NPF NTS OH OL PA PB PE PED	NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN NORMAL POWER FACTOR NOT TO SCALE OVERHEAD OVERLOADS PUBLIC ADDRESS PULL BOX OR PUSHBUTTON PNEUMATIC ELECTRIC PEDESTAL
	PRV PT	POWER FACTOR PHASE POST INDICATING VALVE PANEL POWER POLE PAIR PRIMARY PROJECTION POWER ROOF VENTILATOR POTENTIAL TRANSFORMER
Ρ	PVC PWR QUAN RCPT REQD RM RSC RTU SC SEC SHT	QUANTITY
	SIM S/N SPEC SPKR SP SPD SR SS SSW S/S	SIMILAR SOLID NEUTRAL SPECIFICATION
	STA STD SURF SW SWBD SYM SYS TEL TEL/DAT	STATION STANDARD SURFACE MOUNTED SWITCH SWITCHBOARD SYMMETRICAL SYSTEM TELEPHONE
	TL TR	TWIST LOCK TAMPER RESISTANT THERMOSTAT TELEPHONE TERMINAL CARINET
R	UT UTIL UV V VA VDT VERT VFD VOL W W/	UNDERGROUND TELEPHONE UTILITY ULTRAVIOLET VOLT VOLT-AMPERES VIDEO DISPLAY TERMINAL VERTICAL VARIABLE FREQUENCY DRIVE VOLUME WATT WITH
	WG WH W/O WP XFMR XFR	WIRE GUARD WATER HEATER WITHOUT WEATHERPROOF TRANSFORMER TRANSFER
	@ A ▲ D ' F " IN # N Ø P C C	NGLE T ELTA EET ICHES UMBER HASE ENTER LINE LATE

### LIGHTING SYMBOLS POWER SYMBOLS -0-LIGHTING FIXTURES, TYPICAL, RECTANGULAR (VARIOUS SYMBOLS) FILLED CIRCLES INDICATE RECESSED. $\Phi \oplus \square$ simple> OPEN CIRCLES INDICATE SURFACE-MOUNTED DIAGONAL LINE INDICATES LENSED OUTER DOTS INDICATE SUSPENDED ΦΦ 🖽 DUPLEX $\overline{\cdot \cdot}$ 🕀 🕀 🆽 QUADRI LIGHTING FIXTURES, TYPICAL, ROUND CENTER DOT INDICATES PENDANT DIAGONAL LINE INDICATES LENSED 🔍 🔍 🕱 SPECIAI CHEVRON INDICATES WALL WASH T WALL-MOUNTED FIXTURES, TYPICAL Ю STRIP FIXTURE ⊲→ DIRECTIONAL LIGHT, TRACK, FLOOD ----🕀 🛡 CENTER EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, ▶⊡◀ INTEGRAL BATTERY HALF SH ►⊶◀ EMERGENCY LIGHTING UNIT, CEILING-(TYPIC MOUNTED, REMOTE BATTERY EMERGENCY LIGHTING UNIT, WALL-MOUNTED. INTEGRAL BATTERY FILLED S EMERGENCY LIGHTING UNIT, WALL RANGE MOUNTED, REMOTE BATTERY CORD R EXIT LIGHT, CEILING-MOUNTED, SHADING Ģ Ģ AND ARROWS INDICATE FACES AND DROP C DIRECTION EXIT LIGHT, WALL-MOUNTED, SHADING FLOORB AND ARROWS INDICATE FACES AND DIRECTION (+)POKE TH EXIT/ELU COMBO EMERGE METER •-C 凸 POLE/AREA LIGHTS SAFETY Ъ SAFET POST-TOP AREA LIGHT ¤ BOLLARD LIGHT MOTOR DIAGONAL HATCH INDICATES 4 COMBIN EMERGENCY LIGHT H○● PUSHBL SINGLE POLE SWITCH MOTOR 3-WAY SWITCH GROUNE ++ 4-WAY SWITCH Ť KEYED SWITCH POWER DEVICE AND EQU LOW VOLTAGE MOMENTARY PUSHBUTTON OR ● 1d ELECTRICAL DE\ DECORATOR SWITCH INDICATED BY A SWITCH W/PILOT INDICATED BY A DIMMER SWITCH EXAMPLE: SPLIT CIRCUIT 1 AND C FAN SPEED CONTROLLER. COORDINATE TYPE SWITCH "d". WITH FAN MANUFACTURER. (•) EQUIPMENT TAG OCCUPANCY SENSOR W/ MANUAL SWITCH ⊢(6\$) UNDERLINED TA VACANCY SENSOR W/ MANUAL SWITCH EQUIPMENT CO ⊢OS D OCCUPANCY SENSOR W/ 0-10V DIMMER XX-1 ELECTRICAL REC ⊢(⁄S D VACANCY SENSOR W/ 0-10V DIMMER SYMBOLS/GRAPI (OS) OCCUPANCY SENSOR, CEILING MOUNTED (VS) VACANCY SENSOR, CEILING MOUNTED POWER DISTRIBUTION EQ CORRIDOR OCCUPANCY SENSOR, CEILING **--**0\$-► MOUNTED SB1 TIMER SWITCH TIME DELAY SWITCH HATCHED FILL INDIC HTC TIME CONTROL SWITCH SWITCHBOARD. SOLID FILL INDICAT DASHED BOX INDIC LIGHTING TAGS AND DEPTH). DOOF -TOP VALUE: FIXTURE TYPE ID T1 TRANSFORME OR CONTAIN<sup>-</sup> • DESCRIPTION -BOTTOM VALUE: LOWERCASE LETTER: SWITCH ID CONDU -BOTTOM VALUE: NUMBER(S): CIRCUIT NUMBER CONTAI GROUN ABSENCE OF A SWITCH ID INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE. AN "nI" IN PLACE OF THE SWITCH ID REQUIR INDICATES NIGHT LIGHT (UNSWITCHED). CONDU SWITCH ID INDICATED BY A LOWERCASE LETTER. SWITCH PER PH/ IDS ARE UNIQUE PER SPACE. A SWITCH WITH AN ID "a" CONDU CONTROLS ALL DEVICES WITHIN THE SPACE IN WHICH IT SHOWN $\sigma \leftrightarrow$ IS LOCATED TAGGED WITH "a". A SWITCH WITHOUT A TAGGED ID CONTROLS ALL LIGHTING FIXTURES WITHIN A HOME F SPACE. ID TAGS MAY BE USED ON CONTROL DEVICES PANELE OTHER THAN SWITCHES, SUCH AS OCCUPANCY SENSORS P4N-102 THE HO 1, 3, 5 CIRCUIT OR CONTACTORS. CIRCUIT SHOWN CORRE DESIGN P4N-102 NUMBE INDICAT (NEUTR **IS NOT** OF ARR CONDU FIELD C

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# ELECTRICAL SYMBOL LEGEND

<u>OLS</u>	TELECOM SYMBO	<u>DLS</u>
	WALL CEILING FLOOR	
	WALL CEILIN FLOO	
SIMPLEX RECEPTACLE	$\bigtriangledown \bigcirc \bigtriangledown$	DATA OUTLET
DUPLEX RECEPTACLE		VOICE OUTLET
QUADRUPLEX RECEPTACLE	$\nabla$	DATA/VOICE OL
SPECIAL RECEPTACLE, TYPE AS INDICATED		WIRELESS ACC
JUNCTION BOX		CATV OUTLET
RECEPTACLE MODIFIERS: ##": HEIGHT AFF OC		OVER OUTEET
AC: ABOVE COUNTER WP: WEATHERPROOF IN-USE COVER	SECURITY SYMB	<u>OLS</u>
W/ WR RATED GFI RECEPTACLE WPD: WEATHERPROOF NOT-IN-USE COVER		WALL MOUNTED
W/ WR RATED GFI RECEPTACLE IG: ISOLATED GROUND		CEILING MOUN
CENTER SHADING INDICATES GFI		CARD READER
HALF SHADING INDICATES SPLIT		CARD READER
(TYPICALLY SWITCHED) OUTER SHADING INDICATES EMERGENCY	ES	ELECTRIC STRI
	ML	MAGNETIC LOC
FILLED SQUARES INDICATED 120V OUTLETS	Hell	COMBINATION L
RANGE RECEPTACLE, NEMA 14-50R		MOTION DETEC
CORD REEL, DEVICE VARIES	H	SECURITY SYST
DROP CORD, DEVICE VARIES	SOUND SYSTEM	SYMBOLS
	Hø	WALL MOUNTED
FLOORBOX, TYPE AS INDICATED	S	CEILING MOUN
POKE THRU DEVICE, TYPE AS INDICATED	<del>ф</del> V	VOLUME CONTR
EMERGENCY POWER OFF SWITCH		
METER	CONSTRUCTION (TYPICAL ALL SY	
SAFETY SWITCH, NON-FUSED		
SAFETY SWITCH, FUSED	⇒ <sup>(E)</sup>	EXISTING TO RE
MOTOR STARTER COMBINATION STARTER/DISCONNECT	<b>≠</b>	EXISTING TO BE
PUSHBUTTON		NEW
MOTOR		EXISTING TO BE
GROUND BAR	MISCELLANEOUS	<u>}</u>
		AREA NOT IN C
E AND EQUIPMENT TAGS CTRICAL DEVICE TAGS: THE CIRCUIT DESIGNATION IS		
CATED BY A NUMBER. THE SWITCH DESIGNATION IS CATED BY A LOWER CASE LETTER (WHERE APPLICABLE).	$\langle 1 \rangle$	KEY NOTE (SEE
MPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CUIT 1 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY	-	NUMBER OF DE
ICH "d".		NUMBER OF SH
IPMENT TAGS: EQUIPMENT ID IS INDICATED BY AN ERLINED TAG ADJACENT TO THE EQUIPMENT. SEE THE	1	REVISION NUME
IPMENT CONNECTION SCHEDULE FOR DESCRIPTION, CTRICAL REQUIREMENTS, AND PANEL AND CIRCUIT NUMBER.	Room	
BOLS/GRAPHIC APPEARANCE OF EQUIPMENT VARIES.	6	ROOM NAME AN
IBUTION EQUIPMENT		
	QUEET	ELECTRICA
ED FILL INDICATES DISTRIBUTION PANEL OR		CTRICAL TITLE SH
HBOARD. FILL INDICATES BRANCH PANEL OR LOAD CENTER.		CTRICAL DEMOLIT
D BOX INDICATES CODE-REQUIRED CLEARANCE (WIDTH		TING PLAN ER PLAN
PTH). DOOR INDICATES FRONT OF RECESSED PANEL.	E3.2 ROO	F POWER PLAN
R CONTAIN THE LETTER "T". SEE SINGLE-LINE DIAGRAM FOR ESCRIPTION AND REQUIREMENTS.		CTRICAL DETAILS
ESCRIPTION AND REQUIREMENTS.		
CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER PHASE, NEUTRAL, AND		
GROUND IN 1/2" CONDUCTOR PER PHASE, NEUTRAL, AND GROUND IN 1/2" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.		
CONDUIT SHOWN SHALL CONTAIN 1 # 10 CONDUCTOR PER PHASE IN ELECTRICAL CODE SIZED MINIMUM		
CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT.		
HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE		
PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE DESUMPTION OF SUCCESSION AND THE DESUMPTION OF SUCCESSION AND THE DESUMPTION OF SUCCESSION OF SUCCESSION AND ADDRESSION AND THE DESUMPTION OF SUCCESSION OF SUCCESSION AND ADDRESSION AND ADDRESSION AND ADDRESSION OF SUCCESSION ADDRESSION ADDRESSION ADDRESSION ADDRESSION OF SUCCESSION ADDRESSION ADDRESSION ADDRESSION ADDRESSION OF SUCCESSION ADDRESSION ADDRESSION ADDRESSION OF SUCCESSION ADDRES		
CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE		
SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT		
DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD P4N-102; CIRCUITS 1, 3, 5. LONG TICKMARKS INDICATE		
NUMBER OF PHASE CONDUCTORS. SHORT TICK MARKS INDICATE NUMBER OF GROUNDED CONDUCTORS		
(NEUTRALS). AN EQUIPMENT GROUNDING CONDUCTOR IS NOT INDICATED BUT SHALL BE INSTALLED. NUMBER		
OF ARROWHEADS INDICATE NUMBER OF CIRCUITS.		
<ul> <li>CONDUIT IN CEILING, FLOOR OR WALL AS REQUIRED BY FIELD CONDITIONS</li> </ul>		
- CONDUIT IN FLOOR		

- VOICE OUTLET
- DATA/VOICE OUTLET
- VIRELESS ACCESS POINT

- WALL MOUNTED SECURITY CAMERA
- CEILING MOUNTED SECURITY CAMERA
- CARD READER
- CARD READER W/ KEYPAD DOOR CONTACT
- ELECTRIC STRIKE
- MAGNETIC LOCK
- COMBINATION LOCK
- REQUEST TO EXIT BUTTON MOTION DETECTOR
- SECURITY SYSTEM KEYPAD

# YMBOLS

- WALL MOUNTED SPEAKER CEILING MOUNTED SPEAKER
- VOLUME CONTROL

### <u>HASING</u> BOLS AND EQUIPMENT)

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EXISTING TO BE DEMOLISHED

- AREA NOT IN CONTRACT
- KEY NOTE (SEE SCHEDULE)
- NUMBER OF DETAIL ON SHEET NUMBER OF SHEET WHERE DETAIL APPEARS

REVISION NUMBER - SHOWN ON PLANS

ROOM NAME AND NUMBER

# **ELECTRICAL SHEET INDEX**

- DESCRIPTIO RICAL TITLE SHEET
- RICAL DEMOLITION PLAN RICAL SITE PLAN
- ING PLAN
- r plan
- POWER PLAN RICAL DETAILS
- RICAL DIAGRAMS

# ELECTRICAL GENERAL NOTES

- A THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE
- USED IN THIS SET OF DRAWINGS. 3 LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES OR INSTALLED WHERE EXPOSED AND SUBJECT TO PHYSICAL DAMAGE. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS. LOW VOLTAGE CABLES SHALL BE PLENUM RATED IN PLENUM SPACES.
- COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
- PROVIDE CABLE OR CONDUIT AND WIRE AS REQUIRED TO ACHIEVE CIRCUITING SHOWN. SIZE CONDUCTORS PER NEC AMPACITY AND WIRE FILL CRITERIA. PROVIDE DEDICATED NEUTRAL AND GROUND CONDUCTORS FOR CIRCUITING , UNLESS NOTED OTHERWISE. INCREASE BRANCH CIRCUIT AND/OR FEEDER CONDUCTORS INCLUDING EQUIPMENT GROUNDING CONDUCTORS PROPORTIONALLY FOR NO MORE THAN 3% VOLTAGE DROP ON BRANCH CIRCUITS AND 2% ON FEEDERS PER ENERGY CODE.
- IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS AND THOSE REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC REQUIRED CLEARANCES, INCLUDED BY NOT LIMITED TO AREAS ABOVE ACCESSIBLE CEILINGS.
- COORDINATE WITH OTHER TRADES FOR PROPER INSTALLATION OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. CONFLICTS SHALL BE RESOLVED PRIOR TO ROUGH-IN AND AT NO ADDITIONAL COST TO THE OWNER.
- LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY, REMOVE DIRT, DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT AND WIRE SCRAPS AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN
- MATERIALS AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK. CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.
- PERFORM WORK TO COMPLY WITH THE STANDARD PRACTICES FOR GOOD WORKMANSHIP PUBLISHED BY NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA). COMPLY WITH THE LATEST ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES, AMENDMENTS, AND ORDINANCES.
- FIELD COORDINATE FINAL MECHANICAL AND PLUMBING FOUIPMENT LOCATIONS ALONG WITH CONNECTION REQUIREMENTS AND CONTROL WIRING PRIOR TO ROUGH-IN. ADJUST CORRESPONDING CIRCUIT BREAKER RATINGS AND BRANCH CIRCUITING ACCORDINGLY, PROVIDE ADDITIONAL BRANCH CIRCUITS FROM SPARE CIRCUIT BREAKERS TO ACCOMMODATE ANY CONTROL PANELS AND ACCESSORIES REQUIRING POWER.
- ELECTRICAL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN. PROCURE PERMITS AND LICENSES AND PAY FEES ASSOCIATED WITH THIS WORK.
- MATERIALS FURNISHED FOR THIS PROJECT SHALL BE NEW, COMMERCIAL GRADE, FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY UNO.
- M PROVIDE COMPLETE OPERATION & MAINTENANCE MANUAL INCLUDING APPROVED SUBMITTAL DRAWINGS, WARRANTY INFORMATION FOR PRODUCT SUPPLIED, AND MANUFACTURER'S OPERATION AND MAINTENANCE INSTRUCTIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAKING FINAL WIRING TERMINATIONS TO PRE-INSTALLED RECEPTACLES IN OFFICE FURNITURE. CONTRACTOR IS RESPONSIBLE FOR WIRING AND INSTALLING VOICE/DATA DEVICES IN OFFICE FURNITURE. COORDINATE PLACEMENT OF DEVICES WITH FURNITURE LAY-OUT.
- SECURITY SYSTEM TO BE PROVIDED UNDER SEPARATE CONTRACT. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE CONDUIT PROVISIONS, BACK BOXES, ROUGH-INS, SLEEVES AND POWER TO HEAD END EQUIPMENT FOR EXACT REQUIREMENTS PRIOR TO START OF WORK.
- CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT
- CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ELECTRICAL ITEMS SHOWN ON DRAWINGS EXCEPT FOR ITEMS LISTED BELOW. THESE ITEMS SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING. SEE STUB UP DETAIL. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.
- TV OUTLETS - VOLUME CONTROLS
- TELEPHONE OUTLET
- DATA OUTLETS - FIRE ALARM DEVICES
- FURNISH AND INSTALL CONDUIT FROM BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR, UNLESS NOTED OTHERWISE:
- 1"C TV OUTLETS
- 1/2"C VOLUME CONTROLS - 3/4"C DOOR SECURITY DEVICES (CARD READERS, DOOR STRIKES ETC.) - 1"C TELEPHONE OUTLETS
- 1"C DATA OUTLETS - 3/4"C FIRE ALARM DEVICES

# ELECTRICAL REMODEL NOTES

- BRANCH CIRCUITING INDICATED ON PLANS AND SCHEDULES IS BASED UPON EXISTING
- PLANS AND SITE OBSERVATION, CONTRACTOR TO FIELD VERIFY.
- PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.
- PROVIDE NECESSARY DEMOLITION TO FACILITATE NEW CONSTRUCTION WORK ASSOCIATED WITH THIS PROJECT. COORDINATE OUTAGES WITH OWNER MINIMUM 72 HOURS IN ADVANCE. OWNER RETAINS RIGHT TO FIRST SALVAGE. PROVIDE DISPOSAL
- OF REMOVED MATERIAL. MAINTAIN CIRCUIT CONTINUITY AS REQUIRED. IT IS THE INTENT OF THESE DIAGRAMMATIC DRAWINGS TO PROVIDE THE PROJECT SCOPE INCLUDING, BUT NOT LIMITED TO PHASED DEMOLITION AND NEW CONSTRUCTION. EXISTING INFORMATION INDICATED ON THESE PLANS DOES NOT REPRESENT ALL EXISTING CONDITIONS. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS, SCOPE OF PHASING, AND PROJECT INTENT PRIOR TO BID SUBMISSION
- PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS. REMOVE ABANDONED WIRING COMPLETE. AT CONTRACTORS OPTION, UTILIZE
- EXISTING ABANDONED RACEWAY TO EXTENT AVAILABLE. EXPOSED ABANDONED RACEWAY SHALL BE REMOVED. COORDINATE WORK IN PHASES WITH GENERAL CONTRACTOR AND OWNER TO
- FACILITATE DEMOLITION AND NEW CONSTRUCTION. REMOVE ELECTRICAL RELATED EQUIPMENT (I.E JUNCTION BOXES, RECEPTACLES,
- SWITCHES, DEVICES, ETC... ) AFFECTED/ABANDONED AS A RESULT OF DEMOLITION AND NEW CONSTRUCTION.

METHOL

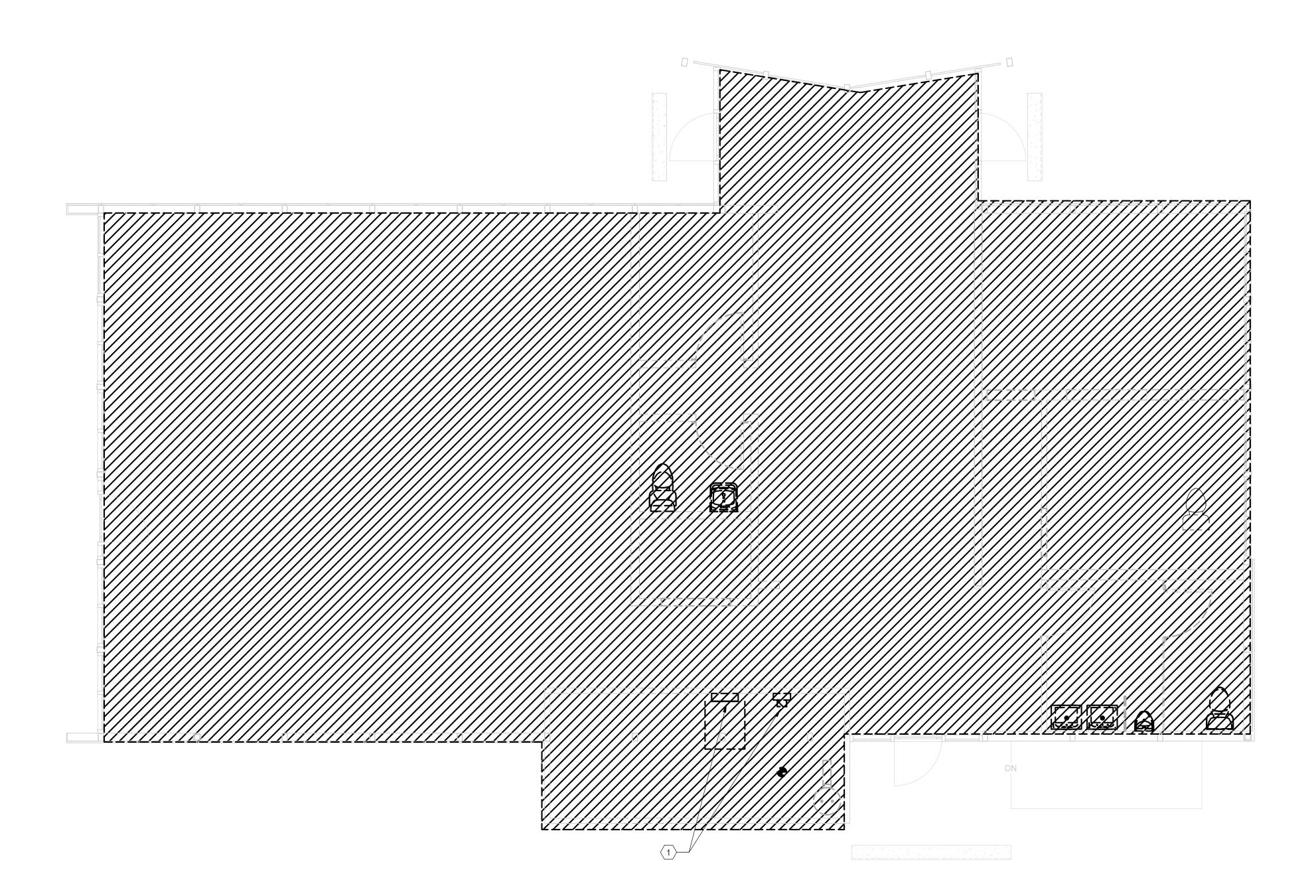
ENGINEERING GROUP





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ELECTRICAL TITLE SHEET



1LEVEL 1 ELECTRICAL DEMOLITION PLANE0.11/4" = 1'-0"

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

# KEYNOTES

1 DEMOLISH EXISTING METER AND PANEL SERVING BUILDING. EXISTING CONDUIT FROM UTILITY POLE TO BE REROUTED AND EXTENDED TO NEW METER LOCATION AS SHOWN ON NEW DRAWINGS.

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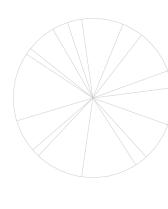
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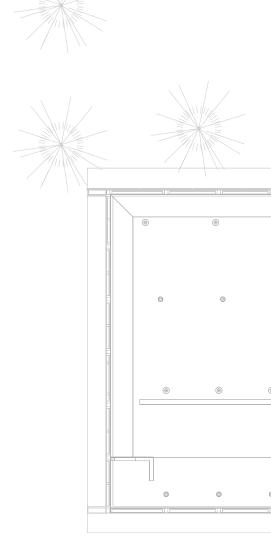
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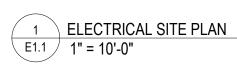
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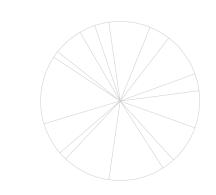
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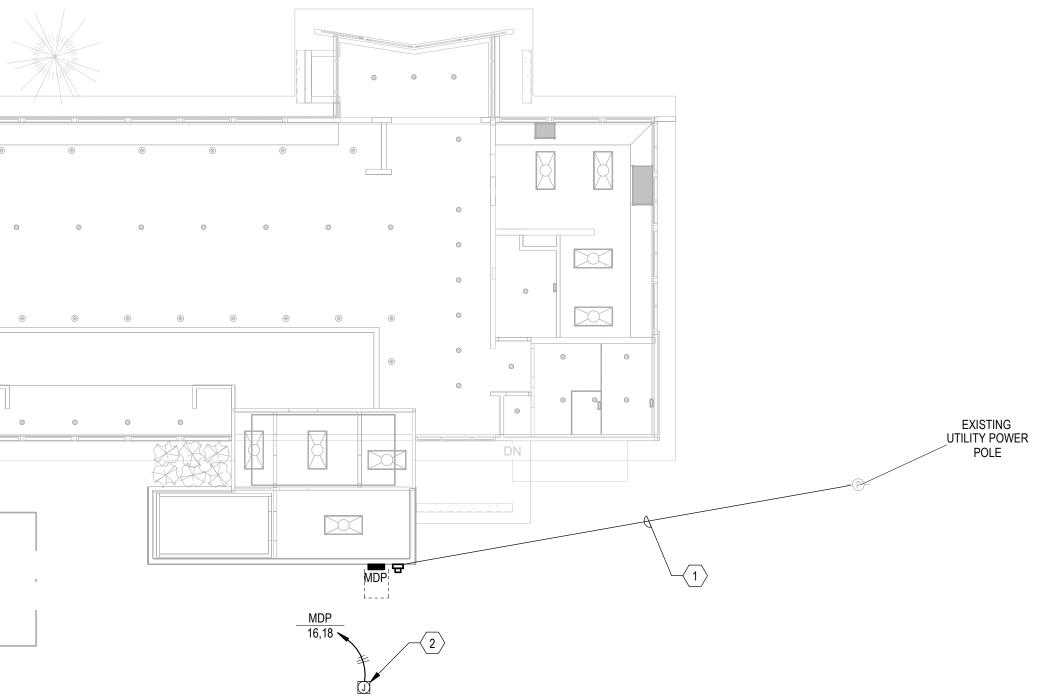
















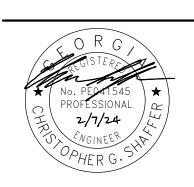
# SITE PLAN SHEET NOTES

- A ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.
- B ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE.
- C ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.
- D PROVIDE TRANSFORMER BASE AT ALL POLE MOUNTED FIXTURES, TAP 2 LEGS OF THREE PHASE FEEDER (CIRCUITS DENOTED), PROVIDE BALLAST FUSES AT TAP, AND PROVIDE BRANCH CIRCUITS TO FIXTURES.

# **KEYNOTES**

- 1 OVERHEAD CONNECTION TO NEW WEATHERHEAD.
- PROVIDE 100A 240V 1 PHASE POWER PEDESTAL. PEDESTAL SHALL HAVE A NEMA 14-50R, NEMA TT-30R AND NEMA 5-20R WITH RESPECTIVE 50A/2P, 30A/1P AND 20A/1P BREAKERS. ROUTE TO 100A/2P BREAKER IN PANEL MDP WITH 3#1,#8G, 1-1/2"C. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.





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ELECTRICAL SITE PLAN

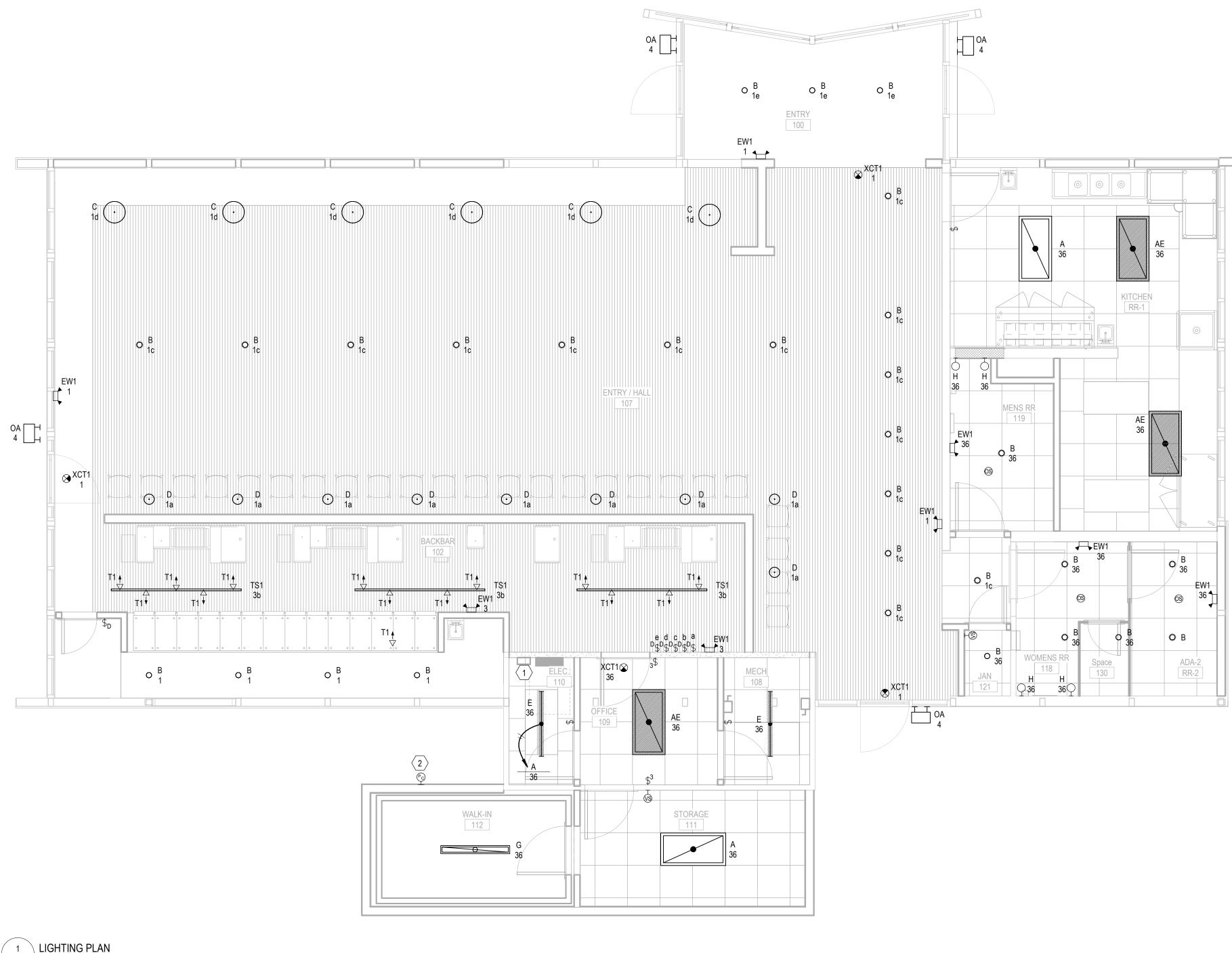
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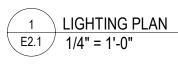
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											LIGHT	ING FI	XTURE	SCHED	DULE					
	CC	ONSTRUCTION		LIGHT SOURCE						ELECTRIC	CAL			PRODUCT						
TYPE	DESCRIPTION	FINISH	LENS/LOUVER	MOUNTING	LAMP	LUMENS DOWN	LUMENS UP	ССТ	CRI	PROJECTED LIFE	BALLAST/DRIVER	VOLT	WATTS	W/ft	EMERGENCY COMPONENT	MFR	MODEL	EQUIVALENT MFR	NOTE	TYPE
A	2X4 FLAT PANEL	WHITE	FROSTED ACRYLIC	LAY-IN	LED	4300 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 10%	120 V	50 W			METALUX COLUMBIA LITHONIA	FP SERIES CBT SERIES CPANL SERIES			A
AE	2X4 FLAT PANEL	WHITE	FROSTED ACRYLIC	LAY-IN	LED	4300 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 10%	120 V	50 W		BATTERY (1000 LUMEN MIN)	METALUX COLUMBIA LITHONIA	FP SERIES CBT SERIES CPANL SERIES			AE
В	4" DOWNLIGHT	BLACK	SEMI-SPECULAR	RECESSED	LED	2000 lm	0 lm	3000 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	20 W			LITHONIA	LDN4 SERIES	HALO COMMERCIAL GREEN CREATIVE		В
С	DECORATIVE PENDANT	SELECTED BY OWNER		SUSPENDED	LED	2000 lm	0 lm	3000 K	80	50,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	30 W			SELECTED BY OWNER	PROVIDE ALLOWANCE OF \$300 PER FIXTURE			С
D	DECORATIVE PENDANT	SELECTED BY OWNER		SUSPENDED	LED	2000 lm	0 lm	3000 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	25 W			SELECTED BY OWNER	PROVIDE ALLOWANCE OF \$300 PER FIXTURE			D
E	4' STRIP	WHITE	SMOOTH FROSTED	SUSPENDED/ SURFACE	LED	4000 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER	120 V	45 W		BATTERY (1000 LUMEN MIN)	LITHONIA	CSS SERIES	METALUX ILP	MOUNTING AS REQUIRED, SUSPEND TO 10' AFF. PROVIDE FIXTURE WITH SELECTABLE LUMENS AND SELECTABLE COLOR TEMPERATURE. SELECTABLE OPTIONS SHALL INCLUDE THE VALUES INDICATED ON THE SCHEDULE.	E E
EW1	ELU INDOOR, TWO HEAD	WHITE		SURFACE WALL	LED	270 lm	0 lm	5000 K	80			120 V	4 W		BATTERY	LITHONIA	ELM2L SERIES	SURE-LITES EVENLITE		EW1
G	4' ENCLOSED AND GASKETED	WHITE	FROSTED POLYCARBONAT E	CEILING SURFACE	LED Lamp	4500 lm	0 lm	4000 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING	120 V	45 W			COLUMBIA METALUX LITHONIA	LXEM SERIES VT4 SERIES FEM SERIES		IP 66 RATED	G
Н	DECORATIVE SCONCE	SELECTED BY OWNER	DECORATIVE	SURFACE WALL	LED	1935 lm	0 lm	3500 K	80	50,000 HOURS	LED DRIVER, 0-10V DIMMABLE, 10%	120 V	22 W			SELECTED BY OWNER	PROVIDE ALLOWANCE OF \$300 PER FIXTURE			Н
OA	EXTERIOR WALL PACK (FORWARD THROW)	BRONZE		WALL 10' AFF	LED	2000 lm	0 lm	4000 K	70	70,000 HOURS	LED DRIVER, DIMMABLE 0-10V	120 V	26 W			LUMARK HUBBELL LITHONIA	XTOR SERIES SG SERIES WPX SERIES		IP66, WET LOCATION LISTED	OA
T1	TRACK HEAD, FLOOD	BLACK		TRACK	LED	2878 lm	0 lm	3500 K	90	50,000 HOURS	LED DRIVER, ELV DIMMABLE, 2%	120 V	34 W			JUNO	T265L SERIES	HALO		T1
TS1	LIGHTING TRACK, SINGLE-CIRCUIT, WHITE	BLACK		CEILING SURFACE	LED	0 lm	0 lm	0 K	0			120 V	216 W	27		JUNO	T SERIES	HALO		TS1
XCT1	EXIT SIGN, THERMOPLASTIC, 1-SIDED	WHITE WITH RED LETTERING		CEILING	LED	0 lm	0 lm	0 K	0			120 V	1 W		BATTERY	LITHONIA DUAL-LITE SURE-LITES	LQM SERIES EVE SERIES APX SERIES			XCT1





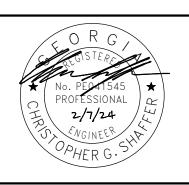
# LIGHTING SHEET NOTES

- A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE
- FIXTURES UNLESS INDICATED OTHERWISE.
- C SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
- D CIRCUIT WIRING IS NOT SHOWN, PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- E CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- F WHERE WALL MOUNTED FIXTURES REQUIRE A LARGER BACKBOX FOR ELECTRONIC ITEMS SUCH AS AN EMERGENCY BATTERY, PROVIDE THE SAME LARGER SIZE BACKBOX FOR ALL FIXTURES OF THE SAME TYPE IN THE SPACE.

# KEYNOTES

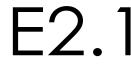
1 8 POLE LIGHTING CONTACTOR PANEL WITH ASTRONOMICAL TIMECLOCK. COORDINATE PROGRAMMING OF EACH CIRCUIT WITH OWNER PRIOR TO ROUGH-IN. SEE DETAIL FOR MORE INFORMATION. 2 PHOTOCELL FOR LIGHTING CONTACTOR PANEL.





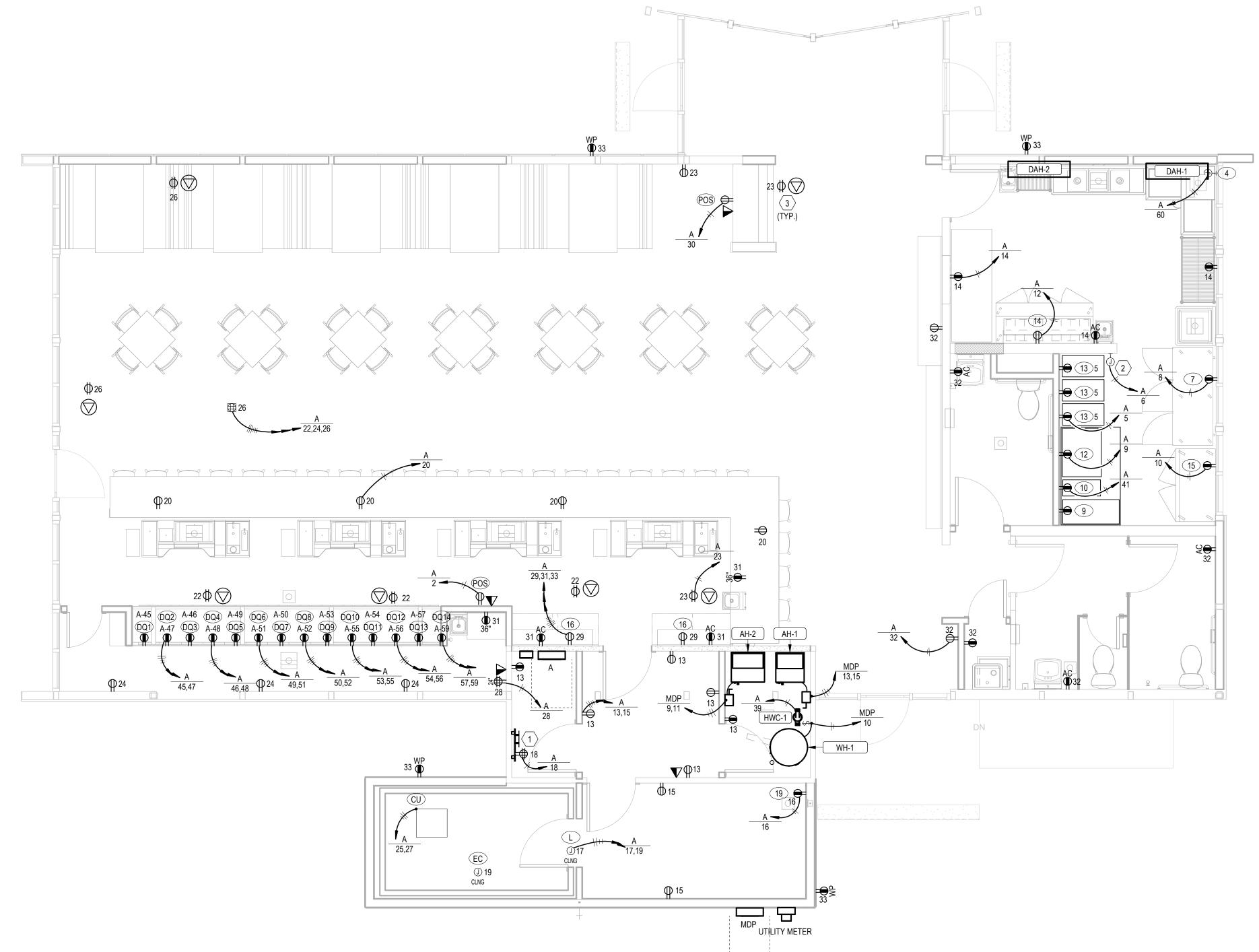
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LIGHTING PLAN BDD





									NENT SCHEDULE					
			LO	AD					DISCONN	ECT	CONN	IECTION		
NO.	DESCRIPTION	WATTS	FLA	MCA	MOCP	VOLT	PHASE	CONDUIT & WIRE SIZE	COMPONENT	FURNISHED / INSTALLED	ТҮРЕ	FURNISHED / INSTALLED	NOTES	NO.
2	EXHAUST HOOD	1200 VA	10 A	13 A	20 A	120 V	1	2#12,#12G,1/2"C	MOTOR RATED SWITCH	DIV 26 / DIV 26	DIRECT	DIV. 26 / DIV. 26		2
4	DISH WASHER	1920 VA	16 A	20 A	25 A	120 V	1	2#12,#10G,1/2"C	MOTOR RATED SWITCH	DIV 26 / DIV 26	DIRECT	DIV. 26 / DIV. 26		4
7	72" UNDERCOUNTER FRIDGE	384 VA	3 A	4 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	7
9	RANGE, STOCK POT (GAS)	180 VA	2 A	2 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	9
10	HOTPLATE, COUNTERTOP (GAS)	180 VA	2 A	2 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	10
12	GRIDDLE, COUNTERTOP (GAS)	180 VA	2 A	2 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	12
13	FRYER, GAS	180 VA	2 A	2 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	13
14	72" MEGA TOP SANDWICH / SALAD FRIDGE	630 VA	8 A	9 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	14
15	54" UPRIGHT FRIDGE	377 VA	3 A	4 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	15
16	BACK BAR CABINET	336 VA	3 A	4 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF	GFCI BREAKER REQUIRED	16
18	REMOTE CONDENSER FOR DAIQUIRI MACHINES	5280 VA	22 A	28 A	35 A	240 V	1	2#10,#10G,3/4"C	30/2/3R	DIV 26 / DIV 26	DIRECT	DIV. 26 / DIV. 26	ONE CONDENSING UNIT PER THREE DAIQUIRI MACHINES	18
19	ICE MACHINE	1500 VA	13 A	16 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		19
CU	CONDENSING UNIT	1920 VA	8 A	10 A	20 A	240 V	1	2#12,#12G,1/2"C	30/2/3R	DIV 26 / DIV 26	DIRECT	DIV. 26 / DIV. 26		CU
DQ1	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ1
DQ2	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ2
DQ3	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ3
DQ4	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ4
DQ5	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ5
DQ6	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ6
DQ7	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ7
DQ8	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ8
DQ9	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ9
DQ10	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ10
DQ11	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ11
DQ12	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ12
DQ13	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26	CORD AND PLUG	MANUF / MANUF		DQ13
DQ14	DAIQUIRI MACHINE	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	NEMA 5-20R	DIV 26 / DIV 26		MANUF / MANUF		DQ14
EC	EVAPORATOR COIL	720 VA	6 A	8 A	20 A	120 V	1	2#12,#12G,1/2"C	MOTOR RATED SWITCH	DIV 26 / DIV 26	DIRECT	DIV. 26 / DIV. 26		EC
L	WALK-IN COOLER LIGHTS AND CONTROLS	1200 VA	10 A	13 A	20 A	120 V	1	2#12,#12G,1/2"C	MOTOR RATED SWITCH	DIV 26 / DIV 26	DIRECT	DIV. 26 / DIV. 26		L



1 POWER PLAN E3.1 1/4" = 1'-0"

# POWER SHEET NOTES

- A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- B CIRCUIT WIRING IS NOT SHOWN, PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN. C CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE
- PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- D PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

# KEYNOTES

- 1 PROVIDE AC TYPE PLYWOOD w/FIRE RETARDANT PAINT FOR LOW VOLTAGE EQUIPMENT. ROUTE 2" CONDUIT FROM LOW VOLTAGE ENTRY POINT AT REAR OF SPACE TO THIS LOCATION. PROVIDE GROUND BAR AND QUAD RECEPTACLE NEAR BACKBOARD. 2 CONNECTION FOR EXHAUST HOOD. COORDINATE EXACT LOCATION OF UTILITY
- CABINET WITH EXHAUST HOOD INSTALLER PRIOR TO ROUGH-IN. RECEPTACLE AND DATA FOR CEILING MOUNTED TV. COORDINATE EXACT 3 LOCATIONS WITH OWNER PRIOR TO ROUGH-IN. TYPICAL OF 8.



ARCHITECTS

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POWER PLAN

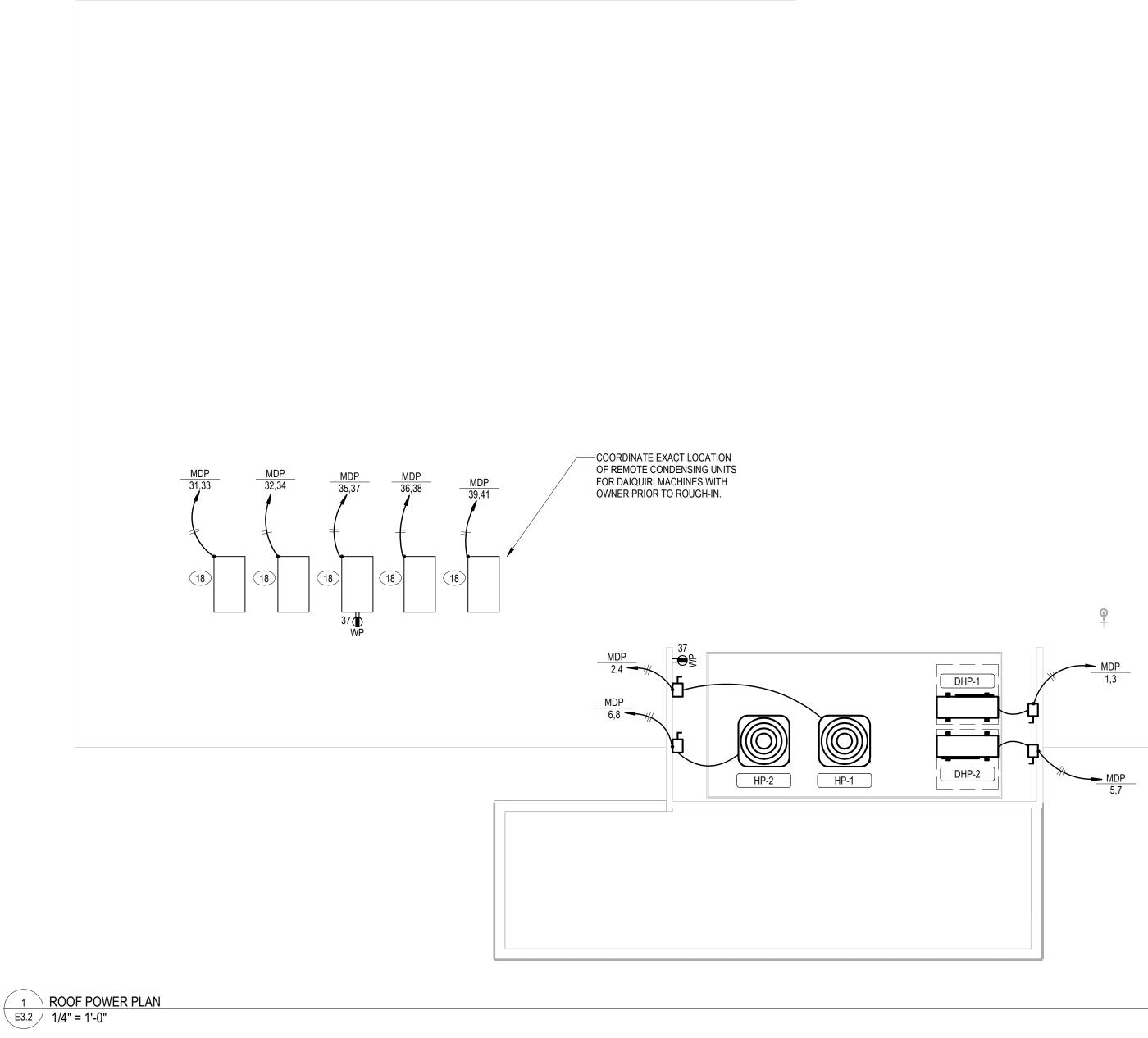


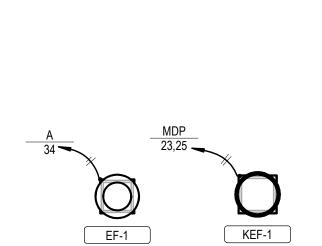


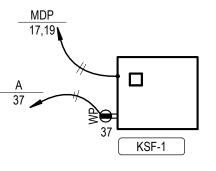


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										ELECTRICAL EQUIPMI	ENT SCHEE	DULE					
	EQUIPMENT INFORMATION							CIRCUIT II	NFORMATION	CONTROL			DISCONNECT				
ID	WATTAGE	FLA	MCA	MOCP	VOLT	PH	PANEL	NO.	WIRE & CONDUIT SIZE	DESCRIPTION	FURNISH	INSTALL	DESCRIPTION	FURNISH	INSTALL	NOTES	ID
Air Handler				·	·						·						
AH-1	8568 W	35.7 A	47.0 A	50 A	240 V	1	MDP	13,15	2#6,#10G,3/4"C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 1	DIV. 26	DIV. 26		AH-1
AH-2	10920 W	45.5 A	56.9 A	60 A	240 V	1	MDP	9,11	2#4,#10G,1"C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 1	DIV. 26	DIV. 26		AH-2
Ductless Heat	Pump										1			I			
DHP-1	3840 W	16.0 A	20.0 A	25 A	240 V	1	MDP	1,3	2#10,#10G,1/2"C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26	INDOOR UNIT FED FROM OUTDOOR UNIT.	DHP-1
DHP-2	3840 W	16.0 A	20.0 A	25 A	240 V	1	MDP	5,7	2#10,#10G,1/2"C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26	INDOOR UNIT FED FROM OUTDOOR UNIT.	DHP-2
Exhaust Fan	1 1																
EF-1	156 W	1.3 A	1.6 A	20 A	120 V	1	A	34	2#12,#12G,1/2"C	DIV. 23 - TIMER SWITCH	DIV. 23	DIV. 23	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		EF-1
Heat Pump											·						
HP-1	4800 W	20.0 A	24.7 A	40 A	240 V	1	MDP	2,4	2#10,#10G,1/2"C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26		HP-1
HP-2	6432 W	26.8 A	33.2 A	50 A	240 V	1	MDP	6,8	2#8,#10G,3/4"C	DIV. 23 - THERMOSTAT	DIV. 23	DIV. 23	DIV. 26 - NON-FUSED SWITCH NEMA 3R	DIV. 26	DIV. 26		HP-2
Hot Water Cir	culating Pump								L		,						<u> </u>
HWC-1	864 W	7.2 A	9.0 A	15 A	120 V	1	A	39	2#12,#12G,1/2"C	DIV. 22 - AQUASTAT	DIV. 22	DIV. 22	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		HWC-1
Kitchen Exhai	ust Fan																
KEF-1	2400 W	10.0 A	12.5 A	20 A	240 V	1	MDP	23,25	2#12,#12G,1/2"C	MANUF - AUTOMATIC CONTROLLER	MANUF.	DIV. 23	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		KEF-1
Kitchen Suppl	y Fan																
KSF-1	2400 W	10.0 A	12.5 A	20 A	240 V	1	MDP	17,19	2#12,#10G,1/2"C	MANUF - AUTOMATIC CONTROLLER	MANUF.	DIV. 23	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		KSF-1
Water Heater	· · ·				•				·	•							
WH-1	600 W	5.0 A	6.3 A	20 A	120 V	1	MDP	10	2#12,#12G,1/2"C	DIV. 22 - AQUASTAT	DIV. 22	DIV. 22	DIV. 26 - MOTOR RATED SWITCH	DIV. 26	DIV. 26		WH-1







# POWER SHEET NOTES

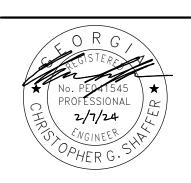
- A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
   B CIRCUIT WIRING IS NOT SHOWN, PROVIDE PROPER NUMBER OF CONDUCTORS TO
- C CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO
- THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
   PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE

# ADDITIONAL ROOF POWER SHEET NOTES

REQUIREMENTS.

- A WHERE BRANCH CIRCUITS TO EQUIPMENT ARE INSTALLED HORIZONTALLY ABOVE THE ROOF, PROVIDE ROOF SUPPORTS SUCH THAT CONDUITS ARE INSTALLED APPROXIMATELY 6" ABOVE ROOF. BASIS OF DESIGN ROOF SUPPORT SHALL BE EATON DURA-BLOK. CONDUCTORS AMPACITIES, INCLUDING EQUIPMENT GROUNDING CONDUCTOR, SHALL BE INCREASED BY 10% AND A MINIMUM ONE SIZE ABOVE WHAT IS INDICATED ON EQUIPMENT CONNECTIONS SCHEDULE. CONDUIT SHALL BE INCREASED AS NECESSARY FOR NEW SIZE CONDUCTORS PER NEC FILL CAPACITIES.
- B COORDINATE WITH DIV. 23 FOR LOCATIONS OF EQUIPMENT AND MOUNTING OF RECEPTACLES TO EQUIPMENT OR SUPPORT STRUCTURES. PROVIDE ADDITIONAL RECEPTACLES ON SAME RECEPTACLE CIRCUIT AS REQUIRED TO HAVE A RECEPTACLE WITHIN 25' OF ALL EQUIPMENT.





# CIRQUE DAIQUIRI BAR & G 2302 BULL STREET SAVANNAH, GA 31401

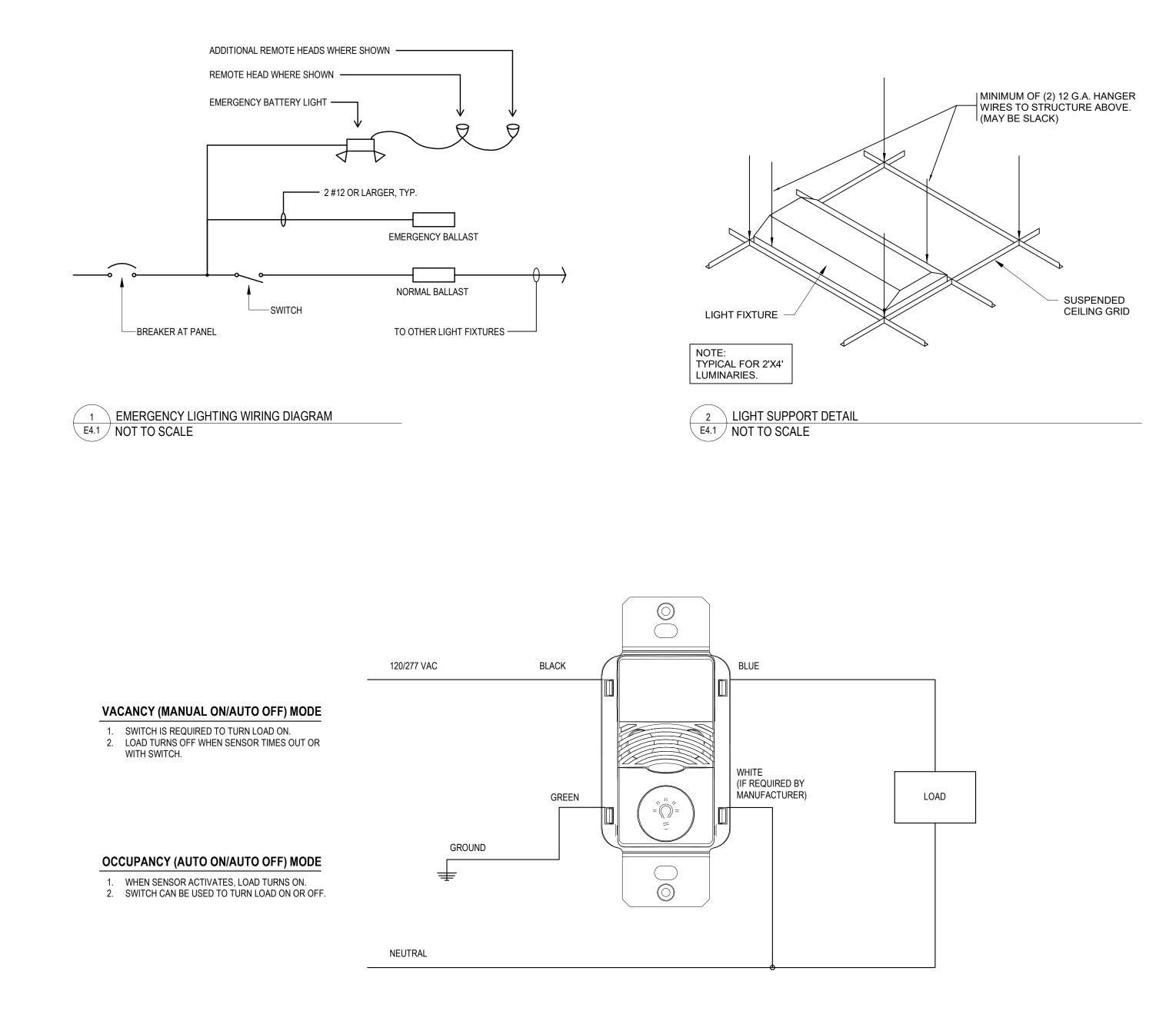
2

ROOF POWER PLAN

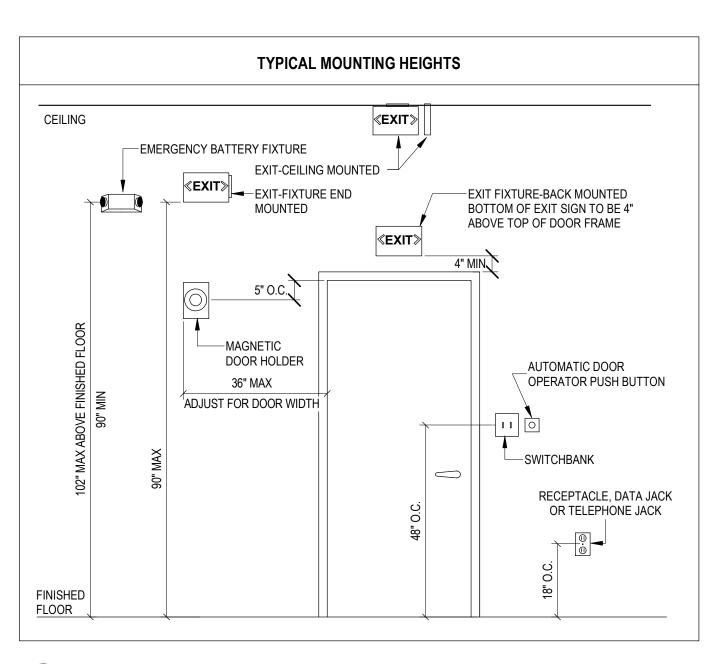
E3.2



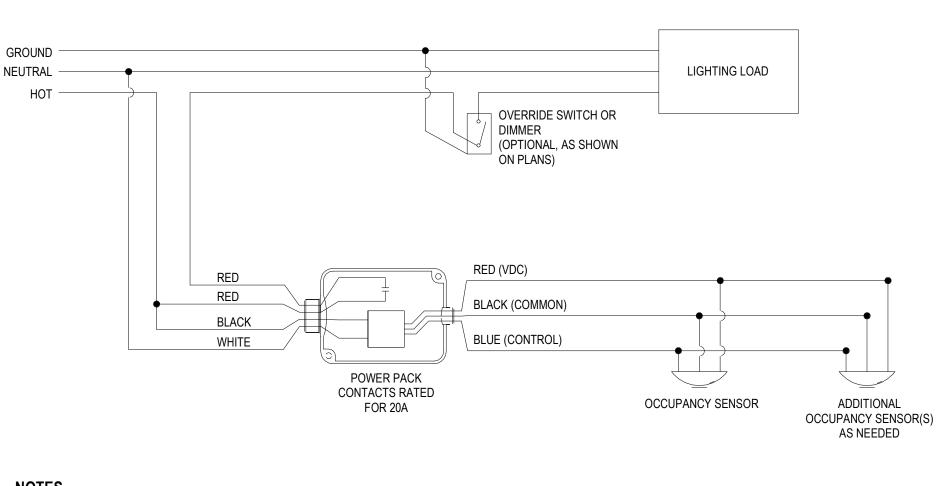




4 WALL MOUNTED OCCUPANCY/VACANCY SENSOR E4.1 NOT TO SCALE

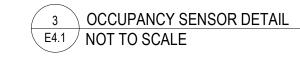


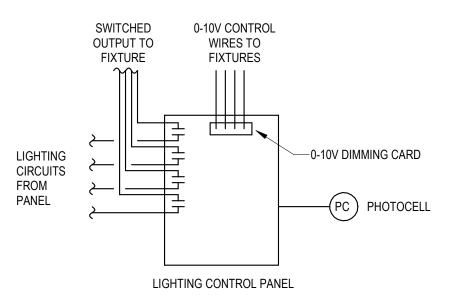
6 TYPICAL MOUNTING HEIGHTS E4.1 NOT TO SCALE



# NOTES

- 1. LIGHTING WILL TURN ON AUTOMATICALLY WHEN ANY OCCUPANCY SENSOR IN THE ZONE DETECTS MOTION.
- 2. LOW VOLTAGE WIRE TO BE 18AWG.
- 3. THIS IS DIAGRAMATIC ONLY. USE WIRING DIAGRAMS FROM OCCUPANCY SENSOR AND SWITCH MANUFACTURER.

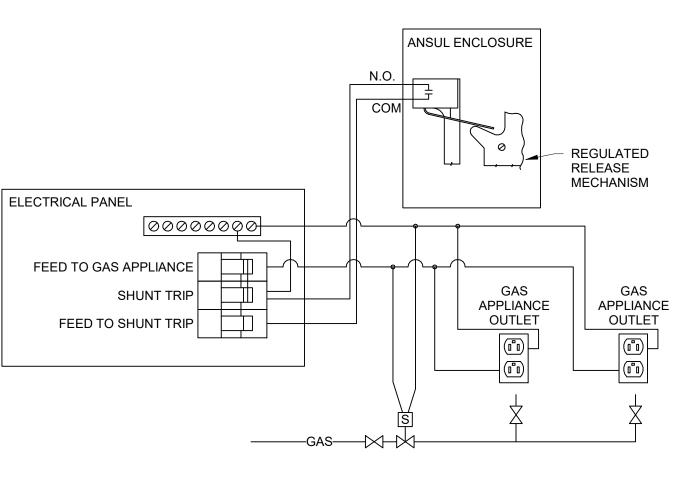




# NOTES

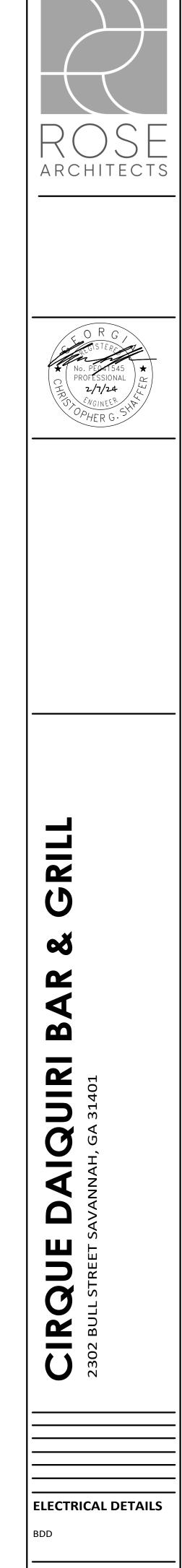
- 1. LIGHTING CONTROL PANEL SHALL HAVE ASTRONOMICAL TIMECLOCK.
- 2. EXTERIOR LIGHTING CIRCUITS SHALL TURN ON WITH PHOTOCELL WHEN NOT ENOUGH LIGHT IS PRESENT AND REDUCE BY 30% BETWEEN HOURS OF 12AM AND 6AM OR SHUT OFF COMPLETELY. AT 6AM EXTERIOR LIGHTS CAN INCREASE TO 100% UNTIL THEY TURN OFF WHEN ENOUGH LIGHT IS PRESENT.
- 3. LIGHTING EXEMPT FROM REDUCING BY 30% IS LIGHTING INTEGRAL TO SIGNAGE AND LIGHTING FOR COVERED VEHICLE ENTRANCES OR EXITS.
- 4. FACADE AND LANSCAPE LIGHTING SHALL BE TURNED OFF BETWEEN THE HOURS OF 12AM AND 6AM.





7 SHUNT TRIP FOR GAS APPLIANCES UNDER KITCHEN HOOD E4.1 NOT TO SCALE

LIGHTING CONTROL SCHEDULE														
ZONE	DESCRIPTION	CIRCUIT	CONTROL TYPE	NOTES										
1	INTERIOR LIGHTING	A-1	TIME-ON / TIME-OFF											
2	INTERIOR LIGHTING	A-3	TIME-ON / TIME-OFF											
3	INTERIOR LIGHTING	A-2	TIME-ON / TIME-OFF											
4	EXTERIOR LIGHTING	A-4	PHOTO-ON /PHOTO-OFF W/ DIMMING	2										
5	SPARE													
6	SPARE													
7	SPARE													
8	SPARE													







# **Branch Panel: MDP**

Location: Supply From: UTILITY METER Mounting: SURFACE Enclosure: TYPE 3R

Volts: 120/240 Phases: 1 Wires: 3

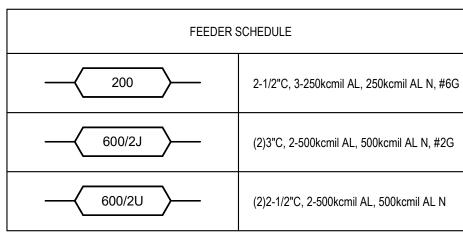
A.I.C. Rating: 22,000 Mains Type: MCB Mains Rating: 600 A Ground Bus: Yes

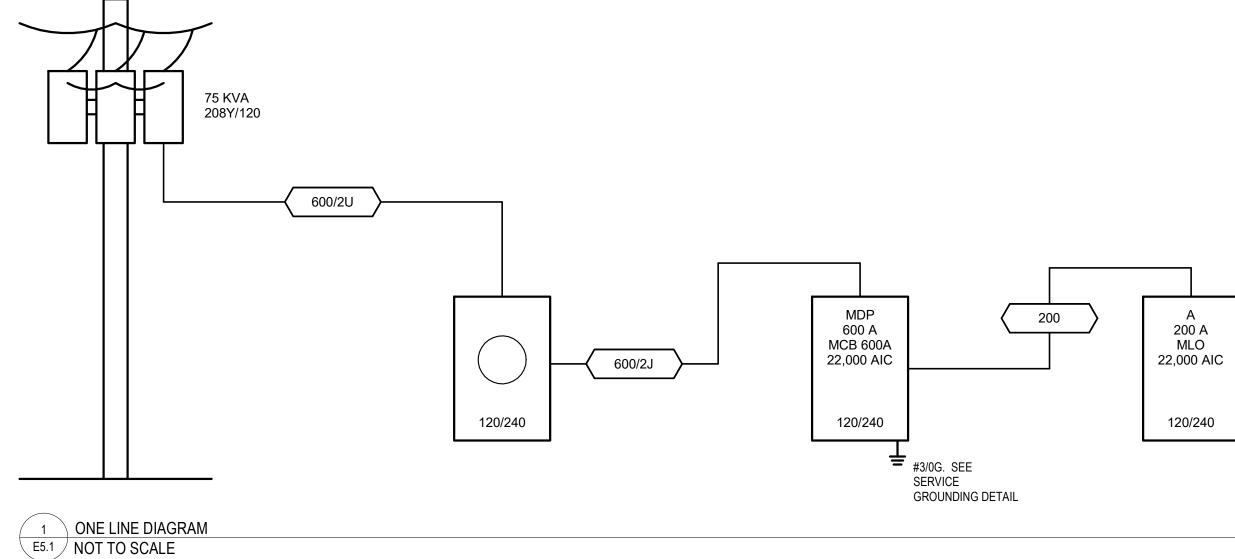
сст	Circuit Description	Bkr Type	Rating	Poles		A	I	В	Poles	Rating	Bkr Type	Circuit Desc
1	DHP-1/DAH-1		25 A	2	1920	2400			2	40 A		HP-1
3			25 A	2			1920	2400	2	40 A		
5	DHP-2/DAH-2		25 A	2	1920	3216			2	50 A		HP-2
7	DHF-2/DAH-2		25 A	2			1920	3216	2	50 A		
9	AH-2		60 A	2	5460	600			1	20 A		WH-1
11	An-2		00 A	2			5460	18420	2	200 A		PANEL A
13	AH-1		50 A	2	4284	18384			2	200 A		
15			50 A	2			4284	7200	2	100 A		SITE POWER PEDES
17	KSF-1		20 A	2	1200	7200			2	100 A		SITE FOWER FEDES
19			20 A	2			1200	0	1	20 A		SPARE
21	SHUNT TRIP			1		0			1	20 A		SPARE
23	KEF-1		20 A	2			1200	0	1	20 A		SPARE
25			20 A	2	1200				1			SPACE
27	SPACE			1				0	2	30 A		SURGE PROTECTION
29	SPACE			1		0			2	30 A		
31	18 - REMOTE CONDENSER		35 A	2			2640	2640	2	35 A		18 - REMOTE CONDE
33			33 A	2	2640	2640			2	33 7		
35	18 - REMOTE CONDENSER		35 A	2			2640	2640	2	35 A		18 - REMOTE CONDE
37			- 55 A	2	2640	2640			2	337		
39	18 - REMOTE CONDENSER		35 A	2			2640		1			SPACE
41			- 55 A	2	2640				1			SPACE
43	SPACE			1					1			SPACE
45	SPACE			1					1			SPACE
47	SPACE			1					1			SPACE
				Tota	6098			20 VA				
				Tota	508	3 A	50	4 A				

1. SIZE BREAKER PER MANUFACTURER'S RECOMMENDATIONS.

# SINGLE LINE SHEET NOTES

A OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT. B REFER TO PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED. C ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.







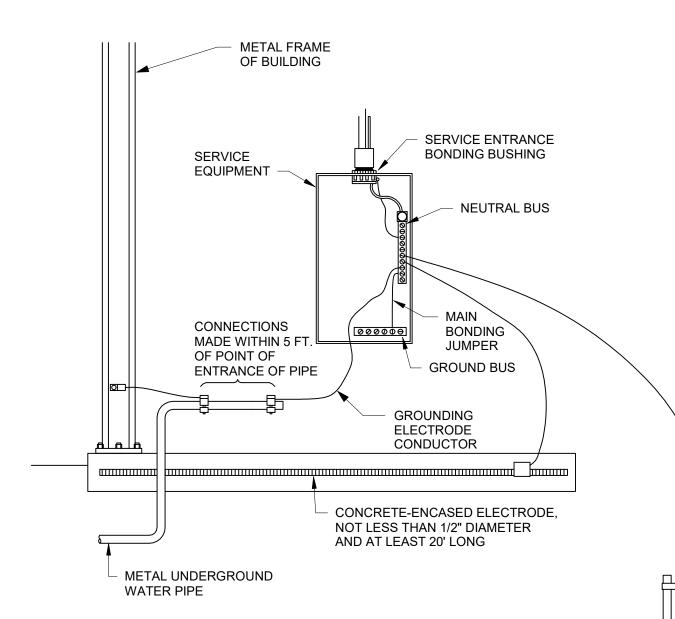
**Branch Panel: A** 

Location: ELEC. 110 Supply From: MDP Mounting: SURFACE Enclosure: TYPE 1

Volts: 120/240 Phases: 1 **Wires:** 3

сст	Circuit Description	Bkr Type	Rating	Poles	4	4	E	3	Poles	Rating	Bkr Type Circuit Description	сст
1	MAIN ROOM / HALL LIGHTS		20 A	1	956	180			1	20 A	POS RCPT	2
3	BACK BAR LIGHTS		20 A	1			729	104	1	20 A	OUTDOOR SCONCE LIGHTS	4
5	FRYER RCPT		20 A	1	540	1200			1	20 A	EXHAUST HOOD CONNECTION	6
7	SHUNT TRIP			1				384	1	20 A	FRIDGE REACH-IN 2 RCPT	8
9	GRIDDLE RCPT		20 A	1	180	377			1	20 A	FRIDGE REACH-IN 1 RCPT	10
11	SHUNT TRIP			1				630	1	20 A	SANDWICH PREP FRIDGE RCPT	12
13	OFFICE RCPT		20 A	1	1080	540			1	20 A	RCPT KITCHEN 121	14
15	STORAGE RCPT		20 A	1			360	1500	1	20 A	ICE MACHINE / BIN RCPT	16
17	WALK-IN FREEZER LIGHT		20 A	1	1200	1440			1	20 A	DATA RCPT	18
19	WALK-IN FREEZER EVAP COIL		20 A	1			720	720	1	20 A	MAIN ROOM RCPT	20
21	SPARE		20 A	1	0	540			1	20 A	TV RCPT	22
23	TV RCPT		20 A	1			540	540	1	20 A	RCPT GAMES AND SEATING 143	24
25			00 A	0	960	540			1	20 A	MAIN ROOM FLOOR RCPT	26
27	WALK-IN COOLER CONDENSER		20 A	2			960	900	1	20 A	MEDIA RCPT	28
29	BACK BAR CABINET RCPT		20 A	1	672	1200			1	20 A	POS RCPT	30
31	BACK BAR SINK RCPT		20 A	1			720	1080	1	20 A	RESTROOMS / JANITORS RCPT	32
33	EXTERIOR RCPT		20 A	1	720	156			1	20 A	EF-1	34
35	SPARE		20 A	1			0	673	1	20 A	EF-2	36
37	ROOFTOP RCPT		20 A	1	540	0			1	20 A	SPARE	38
39	HWC-1		15 A	1			864	0	1	20 A	SPARE	40
41	HOTPLATE, COUNTERTOP (GAS)		20 A	1	360	0			1	20 A	SPARE	42
43	SHUNT TRIP			1				0	1	20 A	SPARE	44
45	DQ1		20 A	1	720	720			1	20 A	DQ3	46
47	DQ2		20 A	1			720	720	1	20 A	DQ4	48
49	DQ5		20 A	1	720	720			1	20 A	DQ7	50
51	DQ6		20 A	1			720	720	1	20 A	DQ8	52
53	DQ9		20 A	1	720	720			1	20 A	DQ11	54
55	DQ10		20 A	1			720	720	1	20 A	DQ12	56
57	DQ13		20 A	1	720	0			1	20 A	SPARE	58
59	DQ14		20 A	1			720	1920	1	20 A	DISHWASHER	60
				Tota	1842	0 VA	1838	4 VA				1

Notes:



SERVICE GROUNDING DETAIL E5.1 NOT TO SCALE

A.I.C. Rating: 22,000 Mains Type: MLO Mains Rating: 200 A Ground Bus: Yes

# ELECTRICAL SYSTEM GROUNDING NOTES

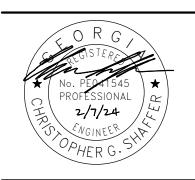
ONE OF THE MOST IMPORTANT PARTS IN THE INSTALLATION OF ELECTRICAL SYSTEMS IS GROUNDING. PROPER GROUNDING WILL PROVIDE PROTECTION OF PERSONNEL, EQUIPMENT, AND CIRCUITS BY ELIMINATING THE POSSIBILITY OF DANGEROUS OR EXCESSIVE VOLTAGES.

- GROUNDING SYSTEM MUST BE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE OR LOCAL ELECTRICAL CODES.
- THE GROUND PATH MUST BE PERMANENT AND CONTINUOUS, AND THE RESISTANCE OF THE GROUND PATHS MUST NOT EXCEED 25 OHMS.
- ALL GROUNDING ELECTRODES OF DIFFERENT SYSTEMS MUST BE BONDED TOGETHER.
- METALLIC CONDUIT USED TO ENCLOSE A GROUNDING CONDUCTOR MUST BE BONDED TO THE GROUNDING CONDUCTOR AT BOTH ENDS TO REDUCE IMPEDANCE.
- RECEPTACLE BOXES MUST BE GROUNDED BY RACEWAY BACK TO THE GROUNDED PANEL.
- IF FLEXIBLE OR PVC CONDUIT IS USED, OR WHERE REQUIRED BY LOCAL CODE, THEN A SEPARATE MECHANICAL GROUND WIRE MUST CONNECT THE OUTLET BOX TO THE PANEL MECHANICAL GROUND BUS.

PROVIDE GROUND TEST WELL AT FIRST GROUND ROD

> (3) 3/4" X 10' GROUND RODS NOT LESS THAN 8' APART, DRIVEN NOT LESS THAN 12" BELOW GRADE







ELECTRICAL DIAGRAMS BDD





Certificate of Appropriateness Streetcar Historic District 23-000590-COA Approved: 02/22/2023 Stamped: 06/18/2024, Caitlin Chamberlain