

**2018 BUILDING CODE SUMMARY - APPENDIX B**

Name of Project: **STATIC LINE BREWERY**  
 Address: **1671 BUFFALO LAKE RD, SANFORD, NC** Zip Code: **27332**  
 Owner/Authorized Agent: **STEVEN KHOO** Phone #: (301) 922-5689 E-Mail: [staticlinebrewingco@gmail.com](mailto:staticlinebrewingco@gmail.com)  
**STATICLINEBREWINGCO@GMAIL.COM** Owned By:  City/County  Private/Nonprofit  State  
 Code Enforcement Jurisdiction:  City  County **HARNETT**  State

**CONTACT: ANDREW W. PRIVETTE, AIA**

DESIGNER	FIRM	NAME	LICENSE	TELEPHONE	E-MAIL
Architectural	DESIGNED TO BUILD	ANDREW PRIVETTE	3877	910.485.8567	andy@designedtobuild.cc
Civil	N/A				
Electrical	COASTAL PLAINS ENG.	CHRIS LOCKLEAR	20193	910.491.0404	coastalplainseng@gmail.c
Fire Alarm	COASTAL PLAINS ENG.	CHRIS LOCKLEAR	20193	910.491.0404	coastalplainseng@gmail.c
Plumbing	COASTAL PLAINS ENG.	CHRIS LOCKLEAR	20193	910.491.0404	coastalplainseng@gmail.c
Mechanical	COASTAL PLAINS ENG.	CHRIS LOCKLEAR	20193	910.491.0404	coastalplainseng@gmail.c
Sprinkler-Standpipe	N/A				
Structural	N/A				
Retaining Walls >5' High	N/A				
Other	N/A				

**2018 NC BUILDING CODE:**  New Building  Shell/Core  1<sup>st</sup> Time Interior Completions  
 Addition  Phased Construction-Shell Core

**2018 NC EXISTING BUILDING CODE:**  Prescriptive  Alteration Level 1  Historic Property  
 Repair  Alteration Level 2  Change of Use  
 Chapter 14  Alteration Level 3

**CONSTRUCTED:** (date) **2010** **CURRENT OCCUPANCY(S)** (Ch. 3): **A-2**  
**RENOVATED:** (date) **N/A** **PROPOSED OCCUPANCY(S)** (Ch. 3): **A-2 & F-2**  
**OCCUPANCY CATEGORY** (Table 1604.5): **Current: II Proposed: II**

**BASIC BUILDING DATA**

**Construction Type:**  I-A  II-A  III-A  IV  V-A  
 I-B  II-B  III-B  V-B  
**Sprinklers:**  No  Partial  NFPA 13  NFPA 13R  NFPA 13D  
**Standpipes:**  No  Class  I  II  III  Wet  Dry  
**Primary Fire District:**  No  Yes **Flood Hazard Area:**  No  Yes  
**Special Inspections Required:**  No  Yes **Fire Flow:** 1500 gpm for 2 hours

**GROSS BUILDING AREA TABLE**

FLOOR	EXISTING (SQ FT)	Renovated (SQ FT)	SUB-TOTAL
3 <sup>rd</sup> Floor			
2 <sup>nd</sup> Floor			
Mezzanine			
1 <sup>st</sup> Floor	2699	2699	2699
Basement			
<b>Total</b>	<b>2699</b>	<b>2699</b>	<b>2699</b>

**ALLOWABLE AREAS**

Primary Occupancy Classification(s):

- Assembly  A-1  A-2  A-3  A-4  A-5  
 Business   
 Educational   
 Factory  F-1 Moderate  F-2 Low  
 Hazardous  H-1 Detonate  H-2 Deflagrate  H-3 Combust  H-4 Health  H-5 HPM  
 Institutional  I-1  I-2  I-3  I-4  
 I-3 Condition  1  2  
 I-2 Condition  1  2  
 I-3 Condition  1  2  3  4  5  
 Mercantile   
 Residential  R-1  R-2  R-3  R-4  
 Storage  S-1 Moderate  S-2 Low  High Piled  
 Parking Garage  Open  Enclosed  
 Utility and Miscellaneous

**Accessory Occupancy Classification(s):** N/A

**Incidental Uses** (Table 509): N/A

**Special Uses** (Chapter 4 - List Code Sections): N/A

**Special Provisions** (Chapter 5 - List Code Sections): N/A

**Mixed Occupancy:**  No  Yes Separation: N/A Hr. Exception: **2 HR existing between other stores**

Non-separated Use (508.3)

Separated Use (508.4) - See below for area calculations for each story.

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

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 <sup>4</sup> AREA	(C) AREA FOR FRONTAGE INCREASES <sup>5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>3</sup>
FIRST	A-2 SEATING/BAR	762	9500	4085	13585
FIRST	F-2 BREWING	1617	23000	9890	32890

<sup>1</sup> Frontage area increases from Section 506.2 are computed thus:

- Perimeter which fronts a public way or open space having 20 feet minimum width = 151 (F)
- Total Building Perimeter = 222 (P)
- Ratio (F/P) = 0.68 (F/P)
- W = Minimum width of public way = 30 (W)
- Percent of frontage increase  $I_f = 100(F/P - 0.25) \times W/30 = 43 (\%)$

<sup>2</sup> Unlimited area applicable under conditions of Section 507.

<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

<sup>4</sup> The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.

<sup>5</sup> Frontage increase is based on the unsprinklered area value in Table 506.2.

**ALLOWABLE HEIGHT- EXISTING, NO CHANGE**

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	55 <sup>6</sup>	21'4"	
Building Height in Stories (Table 504.4)	2	1	

<sup>6</sup> Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

**FIRE PROTECTION REQUIREMENTS**

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOISTS
			PROVIDED	(W/ REDUCTION)				
Structural Frame Including columns, girders, trusses	>30'	0						
Bearing Walls								
Exterior								
North	N/A							
East	>30'	0						
West	>30'	0						
South	N/A							
Interior								
Nonbearing Walls and Partitions								
Exterior								
North	0	2	EXISTING	BETWEEN	STORES			
East	N/A	0						
West	N/A	0						
South	>30'	0						
Interior								
Floor Construction								
Including supporting beams and joists	N/A							
Floor Ceiling Assembly	N/A							
Columns Supporting Floors	N/A							
Roof Construction								
Including supporting beams and joists	0	0						
Roof Ceiling Assembly	0	0						
Columns Supporting Roof	0	0						
Shaft Enclosures - Exit	N/A	N/A						
Shaft Enclosures - Other	N/A	N/A						
Corridor Separation	N/A	N/A						
Occupancy Fire Barrier Separation	N/A	N/A						
Party/Fire Wall Separation	N/A	N/A						
Smoke Barrier Separation	N/A	N/A						
Smoke Partition	N/A	N/A						
Tenant/Dwelling Unit/Sleeping Unit Separation	N/A	N/A						
Incidental Use Separation	N/A	N/A						

\* Indicate section number permitting reduction

**PERCENTAGE OF WALL OPENING CALCULATIONS - EXISTING, NO CHANGE**

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
North >30	UP, NS	0	0
East >30	UP, NS	NO LIMIT	5
West >30	UP, NS	NO LIMIT	90
South >30	UP, NS	NO LIMIT	15

**LIFE SAFETY SYSTEM REQUIREMENTS**

Emergency Lighting:  Yes  No  
 Exit Signs:  Yes  No  
 Fire Alarm:  Yes  No  
 Smoke Detection System:  Yes  No  PARTIAL- SEE MECHANICAL  
 Carbon Monoxide Detection  Yes  No  
 This building may be required to meet the requirements of Section 510 of the NC Fire Code for Emergency Responder Radio Coverage. Verify with the Fire Marshal.

**CHAPTER 11 - LIFE SAFETY REQUIREMENTS**

Life Safety Plan Sheet #: **G-102**

- Fire and/or smoke rated wall locations (Chapter 7)
- Assumed and real property line locations (if not on the site plan)
- Exterior wall opening area with respect to distance to assumed property lines (705.8)
- Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- Occupant loads for each area
- Exit access travel distances (1017)
- Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- Dead end lengths (1020.4)
- Clear exit widths for each exit door
- Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- Actual occupant load for each exit door
- A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- Location of doors with panic hardware (1010.1.10)
- Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- Location of doors with electromagnetic egress locks (1010.1.9.9)
- Location of doors equipped with hold-open devices
- Location of emergency escape windows (1030)
- The square footage of each fire area (202)
- The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- Note any code exceptions or table notes that may have been utilized regarding the items above

**ACCESSIBLE DWELLING UNITS (SECTION 1107) - N/A**

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

**ACCESSIBLE PARKING (SECTION 1106)- EXISTING SHOPPING CENTER LOT, NO CHANGE**

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

**PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) - EXISTING, NO CHANGE**

USE	WATERCLOSERS			URINALS			LAVATORIES			SHOWERS / TUBS			DRINKING FOUNTAINS			SERVICE SINK
	MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE		
EXIST'G	1	1					1	1								
NEW																1
REQ'D	1	1					1	1								1

FREE WATER SERVED.

**SPECIAL APPROVALS - N/A**

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

# STATIC LINE BREWERY

## 1671 BUFFALO LAKE RD

### SANFORD, NORTH CAROLINA 27332




# ANDREW W. PRIVETTE, ARCHITECT

1920 FT. BRAGG ROAD - FAYETTEVILLE, N.C. 28303 - (910) 485-8567



OCTOBER 10, 2022



**ANDREW W. PRIVETTE, AIA**  
 1920 FT. BRAGG ROAD  
 FAYETTEVILLE, NORTH CAROLINA 28303  
 TELE: (910) 485-8567  
 andy@designedtobuild.com



**STATIC LINE BREWERY**  
 1671 BUFFALO LAKE RD  
 SANFORD, NC

MARK	DATE	DESCRIPTION	CHK

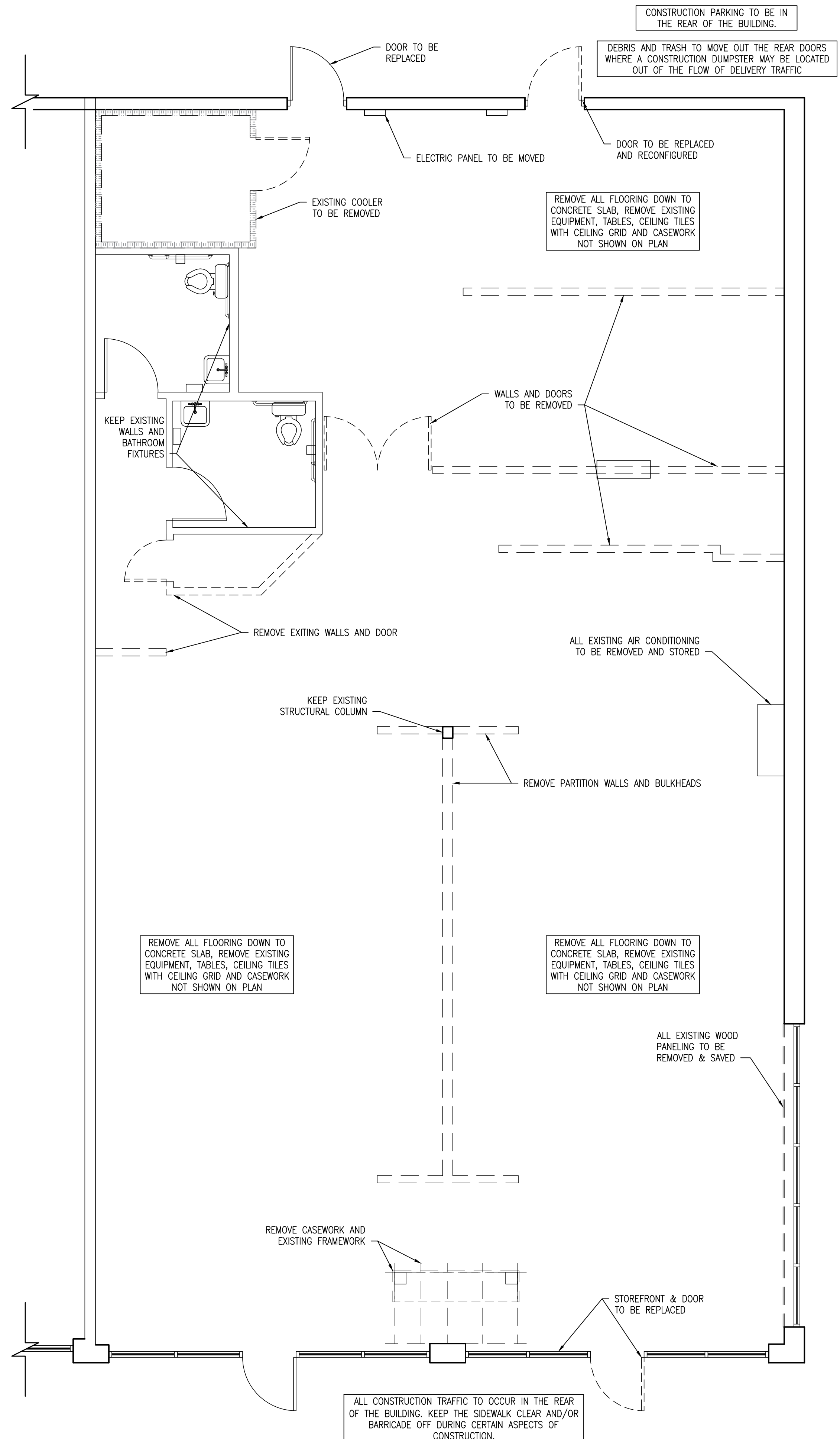
JOB CODE: 22STATIC LINE  
 DRAWN BY: A. PRIVETTE  
 CHECKED BY: A. PRIVETTE  
 COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:  
**COVER SHEET & CODE SUMMARY**

**G-101**  
 SHEET 1 OF 2

PERMITTING STAMP:





**GENERAL DEMOLITION NOTES:**

- A. ALL MATERIALS THAT HAVE BEEN DEMOLISHED SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF PROPERLY. NO DEMOLISHED MATERIALS SHALL BE STOCKPILED ON SITE.
- B. ALL HAZARDOUS MATERIALS SHALL BE REMOVED PRIOR TO START OF CONSTRUCTION.
- C. THE CONTRACTOR SHALL MAKE A PERSONAL INSPECTION OF THE SITE AND INCLUDE DOING EVERYTHING REQUIRED BY THE DRAWINGS AND SPECIFICATIONS UNDER THIS COVER AND OTHERS. NOTIFY THE ARCHITECT IN WRITING OF ANY INCONSISTENCIES IN THE DRAWINGS AND SPECIFICATIONS.
- D. PROTECT OWNER'S PROPERTY AND PERSONS AT ALL TIME. THIS INCLUDES ALL ITEMS AND SERVICES WHICH WILL INTERFERE WITH NEW CONSTRUCTION. COORDINATE OTHER EXISTING ITEMS TO REMAIN WITH OWNER.
- E. COORDINATE WITH THE OWNER ANY SYSTEM SHUTDOWNS WHICH MAY BE REQUIRED.
- F. PRIOR TO COMMENCING WITH THE DEMOLITION, THE CONTRACTOR SHALL ASCERTAIN FROM THE OWNER WHETHER OR NOT THE OWNER WISHES TO RETAIN ANY ITEMS, ANY SUCH ITEMS SHALL BE REMOVED WITH CARE SO AS TO PREVENT UNNECESSARY DAMAGE.
- G. ANY ITEMS NOT TO BE RETAINED BY THE OWNER SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR.
- H. THE CONTRACTOR SHALL REMOVE ALL WIRING, CONDUIT, WIRING SYSTEMS AND EQUIPMENT MADE OBSOLETE BY THIS DEMOLITION.
- I. PROVIDE NEW PANELBOARD DIRECTORIES IN EXISTING PANELBOARDS AS REQUIRED AFTER DEMOLITION/REWORKING OF EXISTING CIRCUITS.

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

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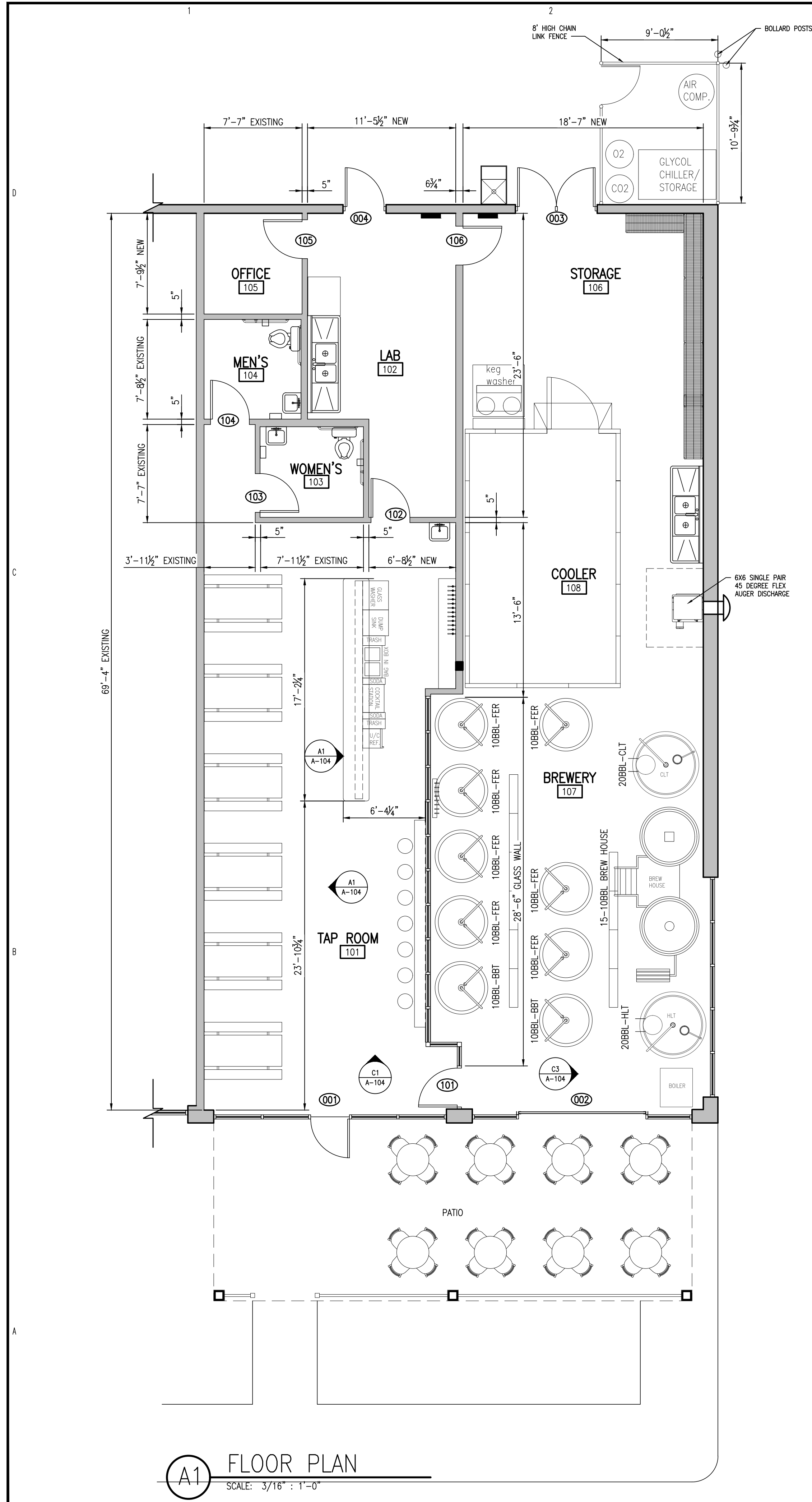
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SHEET TITLE:  
**DEMOLITION PLAN**  
OCTOBER 10, 2022  
DATE: 12/15/2022

**D-101**  
SHEET 1 OF TBD

PERMITTING STAMP:

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### DOOR SCHEDULE

NO.	TYPE	WIDTH	HT.	THICK	GLASS	DR. MAT.	CORE MAT.	FACE MAT.	LABE	FRAMER	FINISH	HAND	HARDWARE	ST	REMARKS
001	EXISTING	3'-0"	7'-0"	-	EXISTING	STOREFRONT	-	-	N/A	EXISTG	MFR	MFR	LK	EXISTING PUSH/PULL	STOREFRONT SYSTEM AND DOOR TO REMAIN
002	NEW	10'-0"	9'-4"	-	MFR	TEMP/NSUL	ALUMINUM	-	CLR. ANODZ.	N/A	EXISTG	P	P	-	ALUMINUM & GLASS OVERHEAD DOOR
003	NEW	2'3"-0"	6'-8"	1 3/4"	N/A	H.M.	INSULATING	FLUSH METAL	N/A	H.M.	P	P	PAR	5	PAR, REMOVABLE MULLION, RIM MOUNTED PANICS
004	EXISTING	3'-0"	7'-0"	1 3/4"	N/A	H.M.	INSULATING	FLUSH METAL	N/A	H.M.	S	P	RR	4	ADD PEEP HOLE
101	NEW	3'-0"	7'-0"	1 3/4"	N/A	STOREFRONT	-	-	N/A	ALUM.	MFR	MFR	RR	4	-
102	NEW	3'-0"	6'-8"	1 3/4"	N/A	WOOD	SOLID	BRCH	N/A	H.M.	S	P	L	6	-
103	EXISTING	3'-0"	6'-8"	1 3/4"	N/A	WOOD	SOLID	BRCH	N/A	H.M.	S	P	L	1	-
104	EXISTING	3'-0"	6'-8"	1 3/4"	N/A	WOOD	SOLID	BRCH	N/A	H.M.	S	P	R	1	-
105	NEW	3'-0"	6'-8"	1 3/4"	N/A	WOOD	SOLID	BRCH	N/A	H.M.	S	P	R	3	-
106	NEW	3'-0"	6'-8"	1 3/4"	N/A	WOOD	SOLID	BRCH	N/A	H.M.	S	P	L	3	-

**HARDWARE NOTES:**

- COORDINATE WITH OWNER'S FURNITURE PLAN FOR DOOR/WALL/HINGE STOPS
- INSTALL BRUSHED CHROME KICK PLATES ON PUSH SIDE OF DOORS WITH CLOSERS.
- ALL HARDWARE TO BE BRUSHED CHROME - UNLESS NOTED OTHERWISE.
- SCHLAGE - AL SERIES, NEPTUNE LEVER, OR: PDQ - GP SERIES BOSTON LEVER, OR: FALCON - B SERIES, QUANTUM ARE ACCEPTABLE.
- ALL DOOR HANDLES, PULLS, LATCHES, LOCKS TO BE LOCATED 40" A.F.F.

### ROOM FINISH SCHEDULE

NO.	ROOM	FLOORS		BASE	WALLS		CEILING	FRAMES	CEILING	TRIM
		MAT'L & FIN.	MAT'L & FIN.	MAT'L & FIN.	MAT'L & FIN.	MAT'L & FIN.	HEIGHT	FINISH		
101	TAP ROOM	○	○	○	○	○	○	○	○	○
102	LAB	○	○	○	○	○	○	○	○	○
103	WOMEN'S TOILET	○	○	○	○	○	○	○	○	○
104	MEN'S TOILET	○	○	○	○	○	○	○	○	○
105	OFFICE	○	○	○	○	○	○	○	○	○
106	STORAGE	○	○	○	○	○	○	○	○	○
107	BREWERY	○	○	○	○	○	○	○	○	○
108	COOLER	○	○	○	○	○	○	○	○	○

**NOTES:**  
SERVICE BAR AND COUNTERS DESIGN BY OWNER

- S E T # 1: (PRIVACY)**  
 LOCKSET: MCKINNEY  
 HINGE: MCKINNEY  
 DOOR/HINGE STOP: GLYNN-JOHNSON
- S E T # 2: (PASSAGE)**  
 LOCKSET: MCKINNEY  
 HINGE: MCKINNEY  
 DOOR/HINGE STOP: GLYNN-JOHNSON
- S E T # 3: (OFFICE)**  
 LOCKSET: MCKINNEY  
 HINGE: MCKINNEY  
 DOOR/HINGE STOP: GLYNN-JOHNSON
- S E T # 4: (PANIC EXIT)**  
 PANIC DEVICES: VONDUPRIN  
 HINGE: SF MFR  
 CLOSER: SF MFR  
 WEATHER STRIPPING: SF MFR  
 DOOR/HINGE STOP: N/A
- S E T # 5: (PANIC EXIT)**  
 PANIC DEVICES: VONDUPRIN  
 HINGE: MCKINNEY  
 CLOSER: NORTON  
 WEATHER STRIPPING: NATIONAL GUARD  
 DOOR/HINGE STOP: N/A
- S E T # 6: (PANIC EXIT)**  
 PANIC DEVICES: VONDUPRIN  
 HINGE: MCKINNEY  
 CLOSER: NORTON  
 DOOR/HINGE STOP: N/A
- AL40S-SAT-US26 (BATH PRIVACY)**  
 MPR79 3 EACH 4.5 X 4 US26 BALL BEARING WALL: 60W-US26
- AL10S-SAT-US26 (PASSAGE)**  
 MPR79 3 EACH 4.5 X 4 US26 BALL BEARING WALL: 60W-US26
- AL50P0-SAT-US26 (ENTRANCE/OFFICE)**  
 MPR79 3 EACH 4.5 X 4 US26 BALL BEARING WALL: 60W-US26
- 3SL - SERIES 35 TOUCH BAR WITH LEVER TRIM, LEVER #03, US26 FINISH TYPICAL.**  
 RIM TYPE FLAT BAR PANIC DEVICES BY VONDUPRIN OR ADAMS-RITE PER STOREFRONT MANUFACTURER
- 3SL - SERIES 35 TOUCH BAR WITH LEVER # TWO**  
 RIM TYPE FLAT BAR PANIC DEVICES BY VONDUPRIN OR ADAMS-RITE REMOVABLE MULLION WITH INTEGRAL LOCK
- TA-2714 6 EACH 4.5 X 4.5 S.S. BALL BEARING**  
 8301-BF-US26 A TWO  
 NIP #17230KB TOP & SIDES THRESHOLD 8960KB & 36 L VINYL DOOR BOTTOMS
- 3SL - SERIES 35 TOUCH BAR WITH LEVER TRIM, LEVER #03, US26 FINISH TYPICAL.**  
 RIM TYPE FLAT BAR PANIC DEVICES BY VONDUPRIN OR ADAMS-RITE
- TA-2714 3 EACH 4.5 X 4.5 S.S. BALL BEARING**  
 8301-BF-US26

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NO.	DATE	DESCRIPTION	CHK

JOB CODE: 22STATIC LINE  
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 CHECKED BY: A. PRIVETTE  
 COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:  
**PROPOSED FLOOR PLAN**

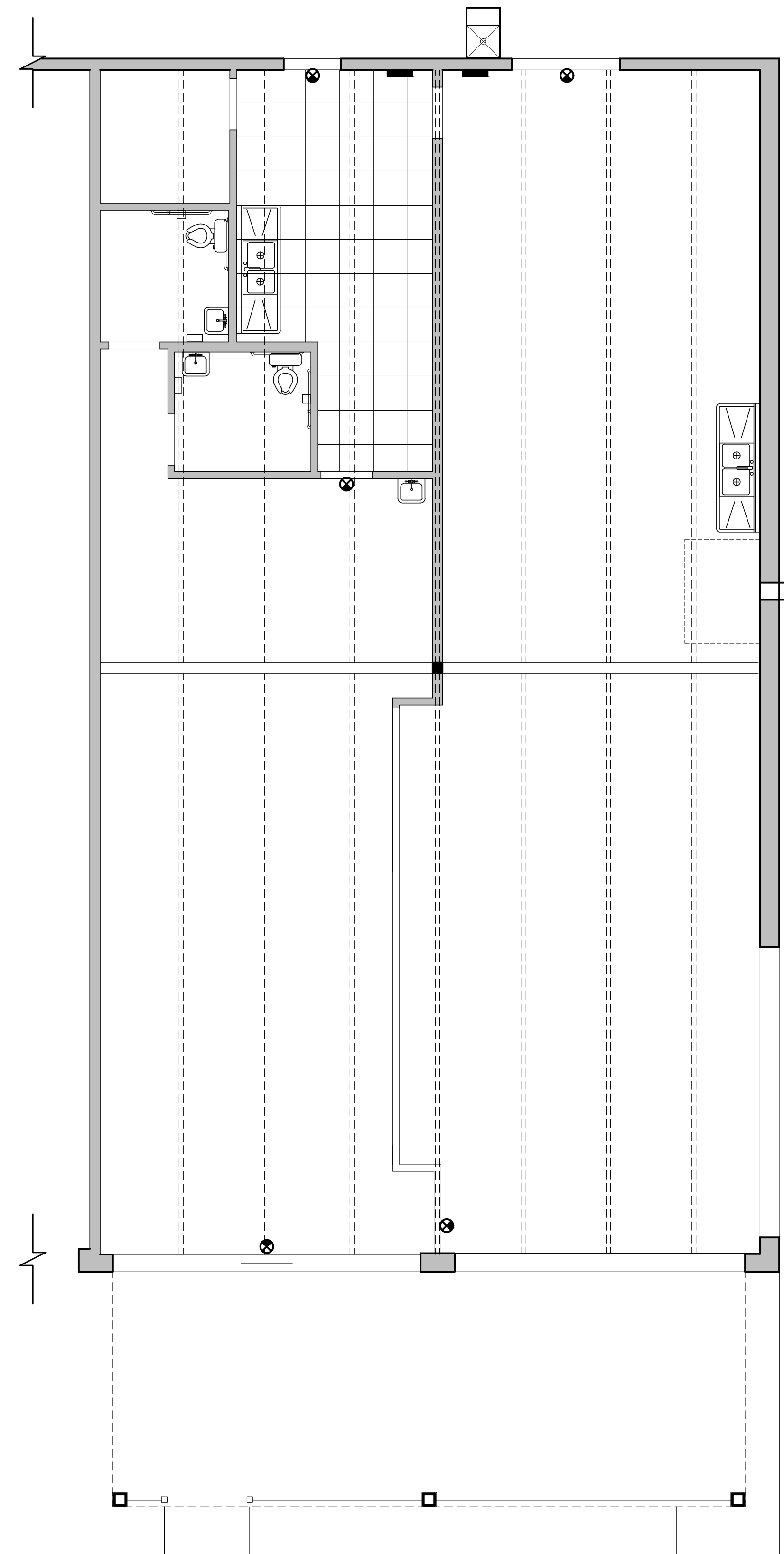
DATE: 12/15/2022

**A-101**  
 SHEET 1 OF 5

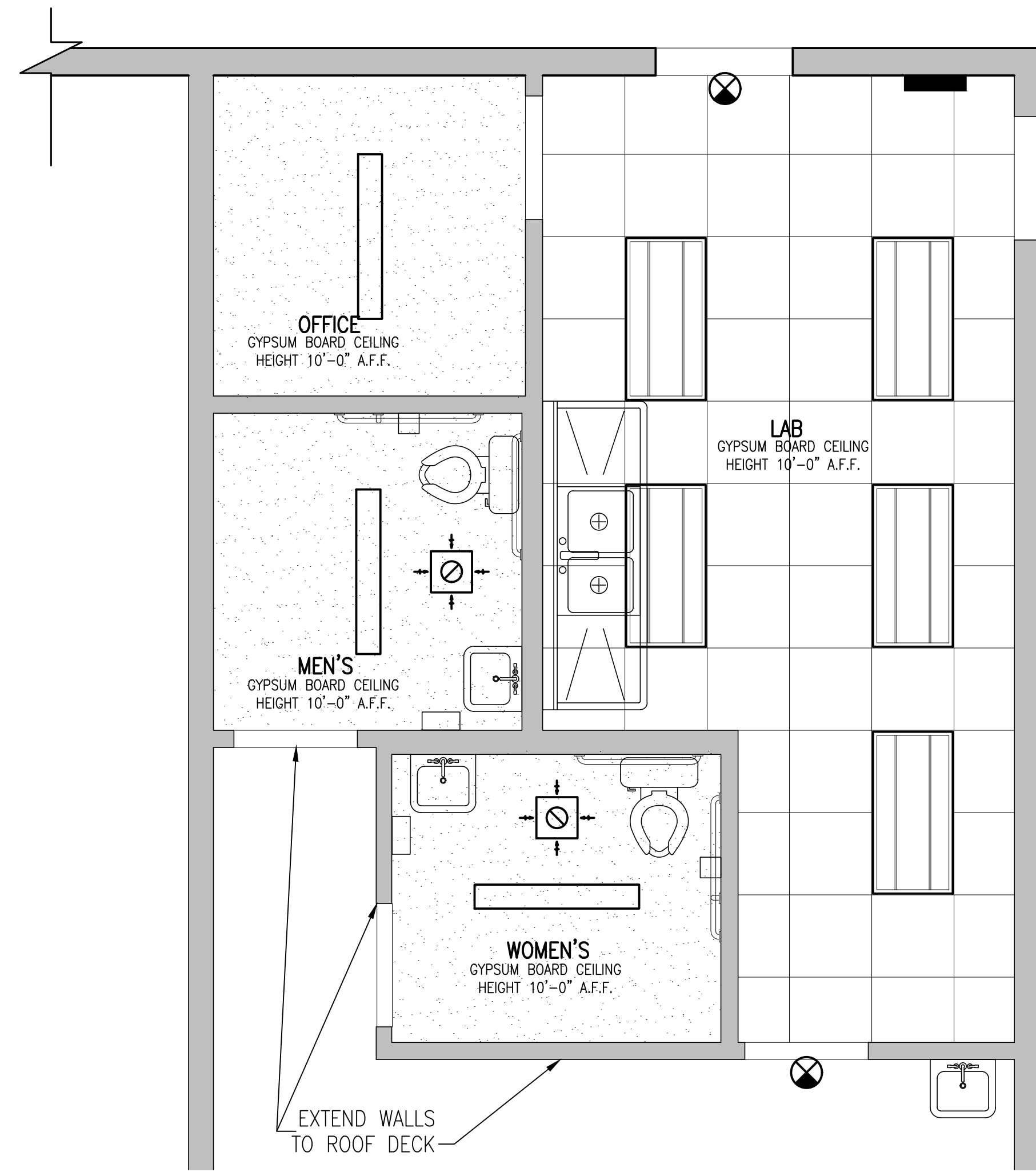
PERMITTING STAMP:

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

DRAWINGS, SPECIFICATIONS AND THE PERSON ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS DELETED OR NOT. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE PROJECT OWNER OR ANY OTHER PARTY FOR OTHER PROJECTS, REVISIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROVED PERMISSION TO THE ARCHITECT.



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



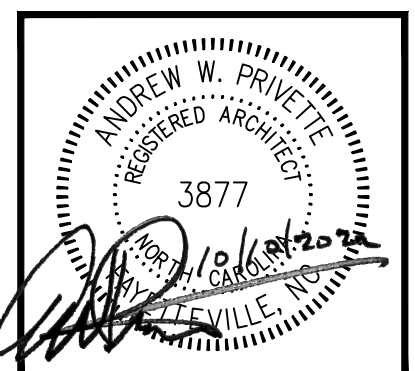
**B4** PARTIAL REFLECTED CEILING PLAN  
SCALE: 3/8" : 1'-0"

REFLECTED CEILING PLAN LEGEND

	2'x4' LAY-IN LED
	1'x4' CEILING MOUNTED LIGHT FIXTURE
	EMERGENCY LIGHT
	EXHAUST FAN
	MECHANICAL SUPPLY GRILLE
	MECHANICAL RETURN GRILLE



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SANFORD, NC

NO.	DATE	DESCRIPTION	CHK.

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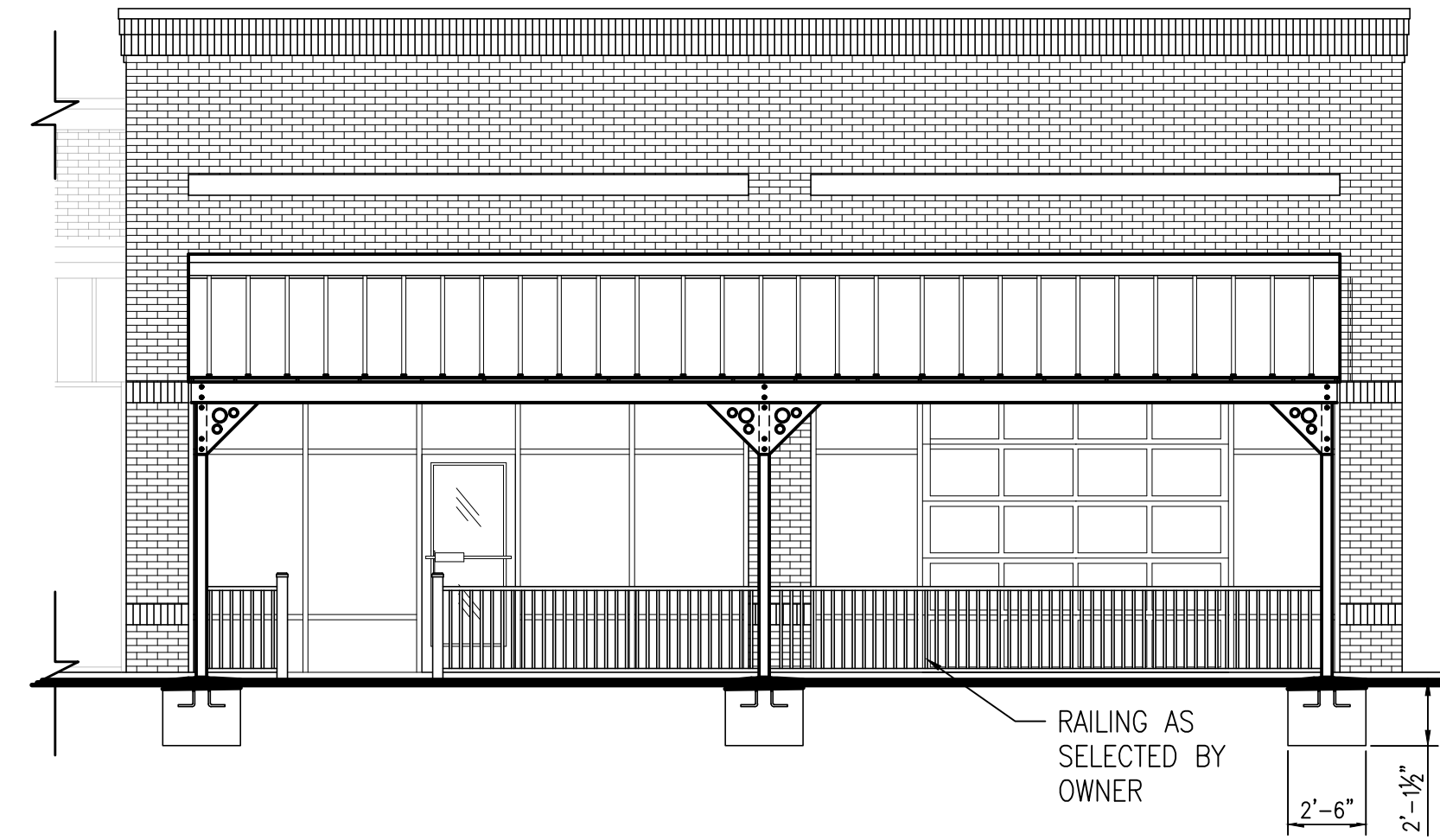
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REFLECTED CEILING PLAN  
DATE: 12/15/2022

**A-102**  
SHEET 2 OF 5

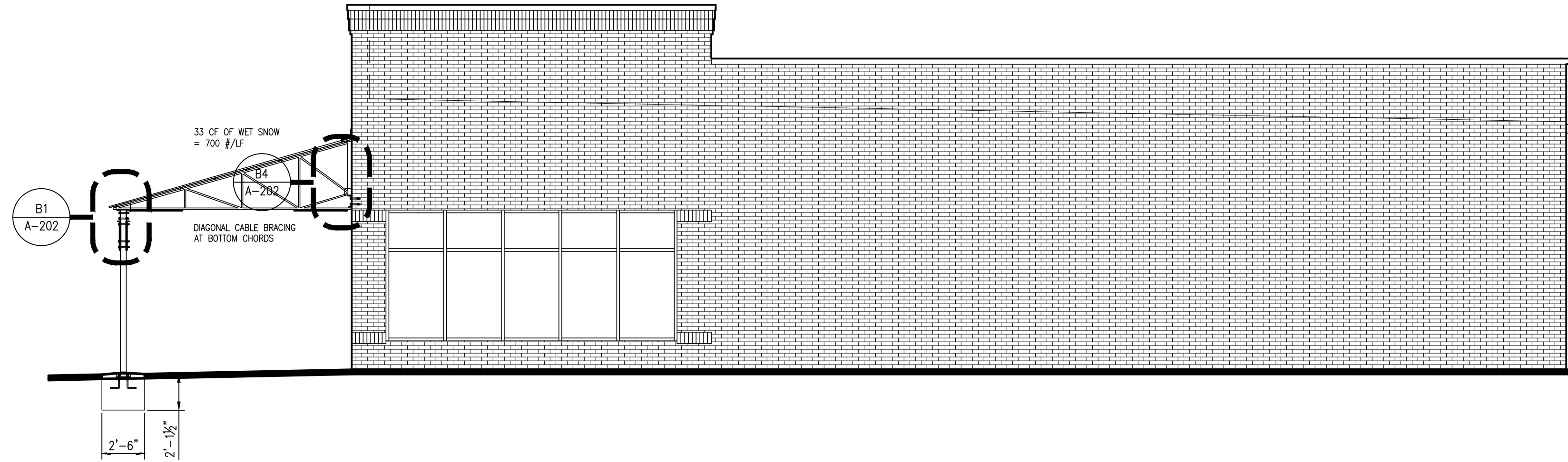
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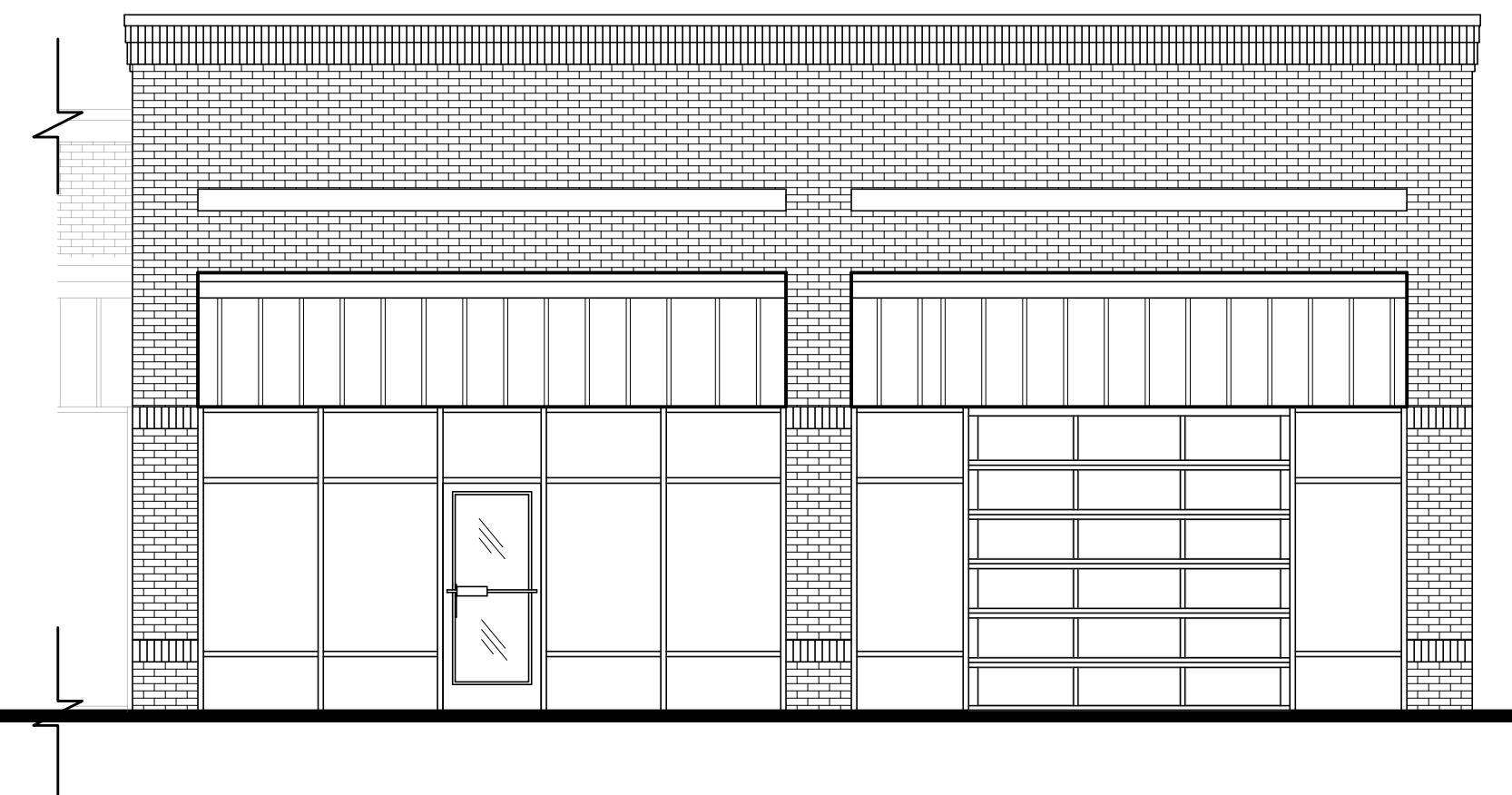




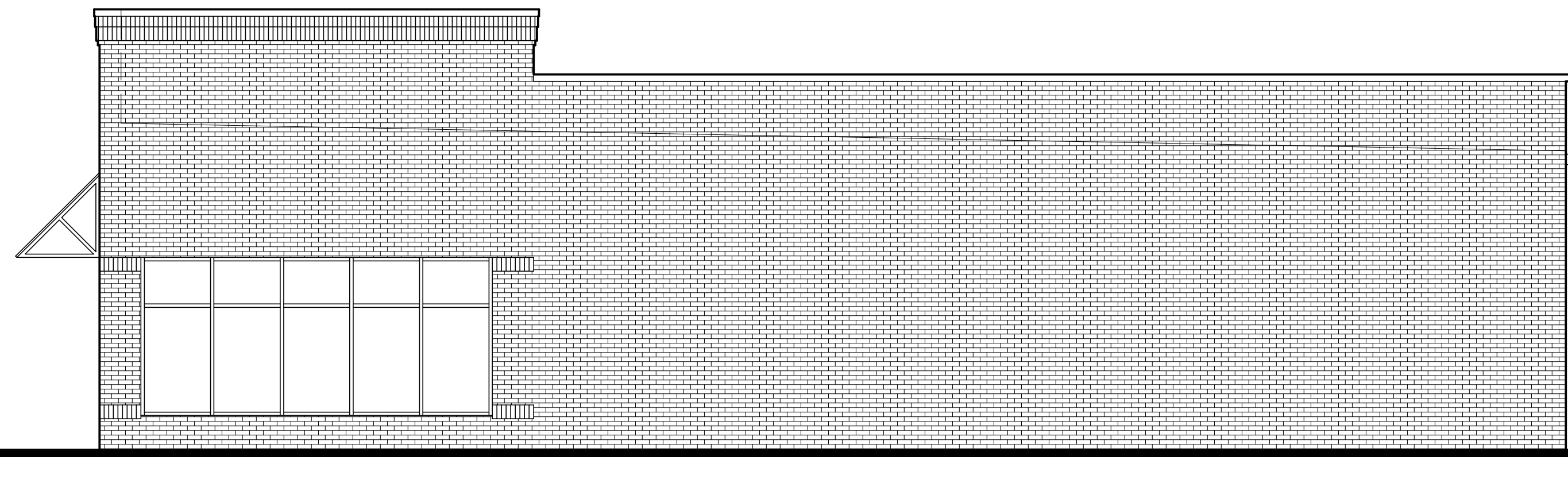
**C1** WEST ELEVATION WITH CANOPY  
SCALE: 3/16" = 1'-0"



**C4** SOUTH ELEVATION WITH CANOPY  
SCALE: 3/16" = 1'-0"



**A1** EXISTING WEST ELEVATION  
SCALE: 3/16" = 1'-0"

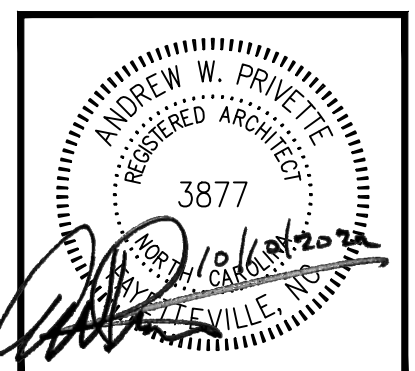


**A4** EXISTING SOUTH ELEVATION  
SCALE: 3/16" = 1'-0"

PERMITTING STAMP:



ANDREW W. PRIVETTE, AIA  
1920 FT. BRAGG ROAD  
FAYETTEVILLE,  
NORTH CAROLINA 28303  
TELE. (910) 485-8567  
andy@designedtobuild.com



STATIC LINE BREWERY  
1671 BUFFALO LAKE RD  
SANFORD, NC

NO.	DATE	DESCRIPTION	CHK

JOB CODE: 22STATIC LINE  
DRAWN BY: A. PRIVETTE  
CHECKED BY: A. PRIVETTE  
COPYRIGHT:  
DESIGNED TO BUILD

SHEET TITLE:  
**EXTERIOR ELEVATION FRONT**  
DATE: 12/15/2022

**A-201**  
SHEET 5 OF 6

DESIGNED TO BUILD  
A SENSIBLE APPROACH  
ANDREW W. PRIVETTE, AIA  
1920 FT. BRAGG ROAD  
FAYETTEVILLE, NC 28303  
(910) 485-8567  
andy@designedtobuild.com  
REGISTERED ARCHITECT  
NO. 3877  
STATE OF NORTH CAROLINA  
DRAWINGS, SPECIFICATIONS AND THE PERSON ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS COMPLETED OR NOT. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE PROJECT OWNER OR ANY OTHER PARTY FOR OTHER PROJECTS, REVISIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT.  
22STATIC LINE





**MDP**

ROOM MOUNTING FLUSH  
FED FROM UTILITY  
NOTE

VOLTS 208Y/120V 3P 4W  
BUS AMPS 800  
NEUTRAL 100%

AIC 22,000  
MAIN BKR MLO  
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	225/3	PANEL EX.A	15.4			2	500/3	BOILER	48	48	48
3				13.6		4					
5					12.2	6					
7	225/3	PANEL EX.B	20.4			8	20/1	SPACE	0	0	0
9				20.9		10	20/1	SPACE	0	0	0
11					19	12	20/1	SPACE	0	0	0
13	20/1	SPACE	0			14	20/1	SPACE	0	0	0
15	20/1	SPACE	0	0		16	20/1	SPACE	0	0	0
17	20/1	SPACE	0		0	18	20/1	SPACE	0	0	0
19	20/1	SPACE	0		0	20	20/1	SPACE	0	0	0
21	20/1	SPACE	0	0		22	20/1	SPACE	0	0	0
23	20/1	SPACE	0		0	24	20/1	SPACE	0	0	0
25	20/1	SPACE	0		0	26	20/1	SPACE	0	0	0
27	20/1	SPACE	0	0		28	20/1	SPACE	0	0	0
29	20/1	SPACE	0		0	30	20/1	SPACE	0	0	0
31	20/1	SPACE	0		0	32	20/1	SPACE	0	0	0
33	20/1	SPACE	0	0		34	20/1	SPACE	0	0	0
35	20/1	SPACE	0		0	36	20/1	SPACE	0	0	0
37	20/1	SPACE	0		0	38	20/1	SPACE	0	0	0
39	20/1	SPACE	0		0	40	20/1	SPACE	0	0	0
41	20/1	SPACE	0		0	42	20/1	SPACE	0	0	0
TOTAL CONNECTED KVA BY PHASE			83.9	82.6	79.1						

	CONN KVA	CALC KVA		CONN KVA	CALC KVA	
LIGHTING	1.96	2.45	(125%)	KITCHEN EQUIPMENT	1.2	1.2 (100%)
LARGEST MOTOR	11.6	2.91	(25%)	CONTINUOUS	164	205 (125%)
MOTORS	15.6	15.6	(100%)	NONCONTINUOUS	8.64	8.64 (100%)
RECEPTACLES	8.52	8.52	(50%>10)	HEATING	19.3	0 (0%)
				COOLING	36.4	36.4 (100%)
				TOTAL LOAD		281
				BALANCED 3-PHASE LOAD		780 A

**EX.A**

ROOM MOUNTING FLUSH  
FED FROM MDP  
NOTE

VOLTS 208Y/120V 3P 4W  
BUS AMPS 225  
NEUTRAL 100%

AIC 22,000  
MAIN BKR MLO  
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	HALL RECEPTACLE	0.72	0.18		2	20/1	WH-1	2.4	0.9	0.36
3	20/1	WP GFCI RTU RECEPTACLE			0.72	4	20/1	OFFICE RECEPTACLE			
5	20/1	BAR USB RECEPTACLE				6	20/1	MEN & WOMEN GFCI RECEPTACLE			
7	20/1	MEN, WOMEN, OFFICE & LAB EF-1, EF-2, LIGHTING	0.346			8	20/1	LEFT SIDE TAP ROOM RECEPTACLE	0.9		
9	20/1	LEFT SIDE TAP ROOM LIGHTING		0.607		10	20/1	U.C. DISHWASHER		1.2	
11	60/3	RTU-1	4.49		4.49	12	20/1	BAR GFCI RECEPTACLE	0.72		0.54
13						14	20/1	COUNTER USB RECEPTACLE		0.401	
15			4.49			16	20/1	RIGHT SIDE TAP ROOM LIGHTING			
17	70/3	RTU-2			5.86	18	20/1	ROOFTOP WP GFCI RECEPTACLE			0.18
19			5.86			20	20/1	SPACE	0	0	0
21				5.86		22	20/1	SPACE			
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	0		0
27	20/1	SPACE		0		28	20/1	SPACE			0
29	20/1	SPACE			0	30	20/1	SPACE			0
31	20/1	SPACE			0	32	20/1	SPACE			0
33	20/1	SPACE		0		34	20/1	SPACE			0
35	20/1	SPACE			0	36	20/1	SPACE			0
37	20/1	SPACE	0			38	20/1	SPACE	0		0
39	20/1	SPACE			0	40	20/1	SPACE			0
41	20/1	SPACE			0	42	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE			15.4	13.6	12.2						

	CONN KVA	CALC KVA		CONN KVA	CALC KVA	
LIGHTING	1.31	1.64	(125%)	KITCHEN EQUIPMENT	1.2	1.2 (100%)
LARGEST MOTOR	6.3	1.58	(25%)	NONCONTINUOUS	2.4	2.4 (100%)
MOTORS	0.04	0.04	(100%)	HEATING	19.3	0 (0%)
RECEPTACLES	5.22	5.22	(50%>10)	COOLING	22.1	22.1 (100%)
				TOTAL LOAD		34.1
				BALANCED 3-PHASE LOAD		94.8 A

**EX.B**

ROOM MOUNTING FLUSH  
FED FROM MDP  
NOTE

VOLTS 208Y/120V 3P 4W  
BUS AMPS 225  
NEUTRAL 100%

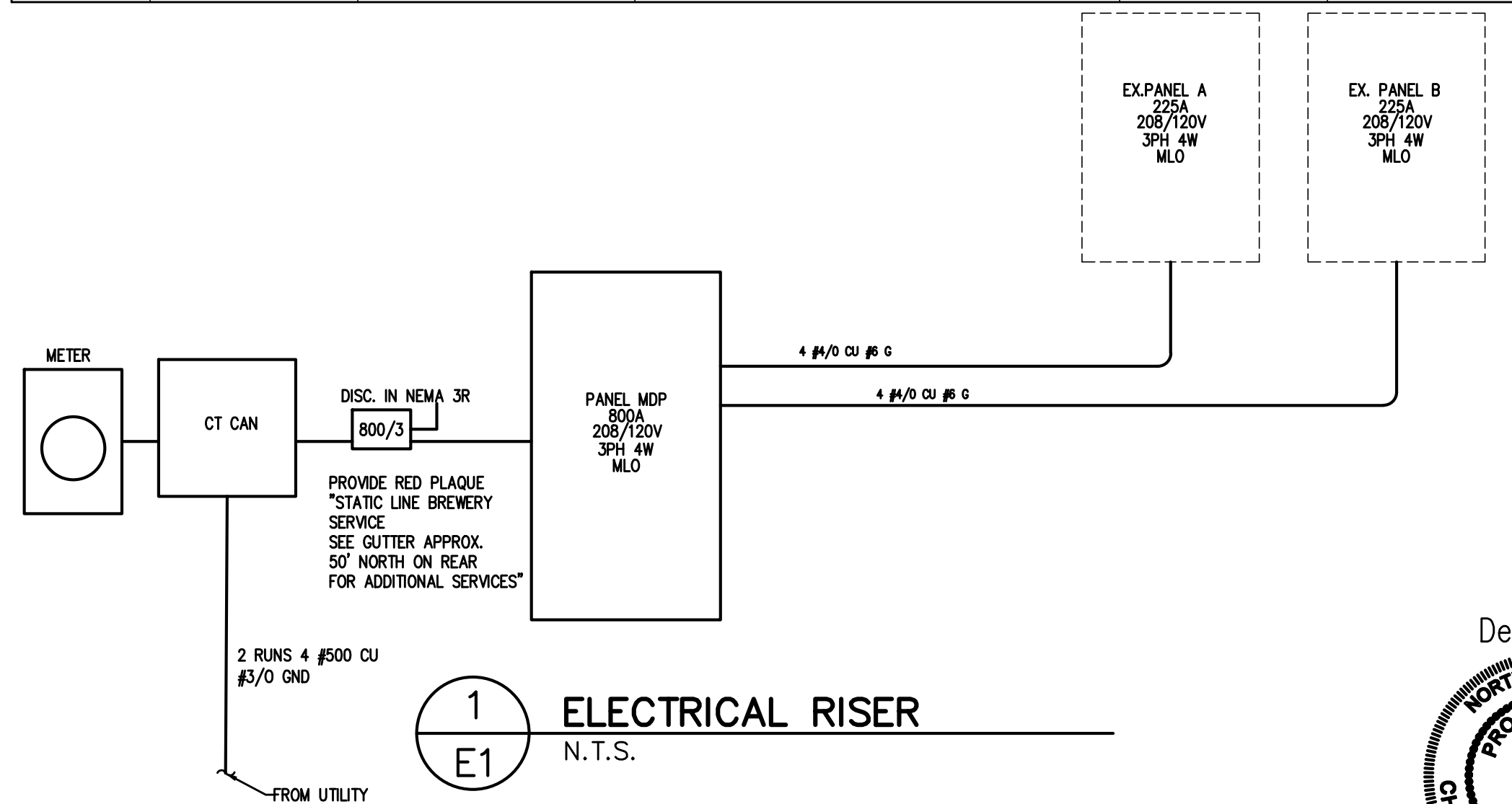
AIC 22,000  
MAIN BKR MLO  
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	BLOWER	1.5	1.5		2	30/2	KEG WASHER	3.12	3.12	1.37
3	20/1	BLOWER			1.5	4					
5	20/1	BLOWER				6	30/3	W.I.C. COND. UNIT	1.37	1.37	2.87
7	20/1	RECEPTACLE	0.18	0.696		8					
9	20/1	EF-3			0.582	10					
11	20/3	CRUSHER				12	30/3	CONTROL PANEL	2.87	2.87	0.828
13			0.582	0.582		14					
15						16					
17	15/1	BBL SYSTEM			1.4	18	20/2	AUGER	0.828	0.828	4.77
19	20/1	BREWERY LIGHTING	0.644	0.54		20					
21	20/1	SIGN / OUTSIDE STRING LIGHTS RECEPTACLE				22	125/3	CHILLER	4.77	4.77	0.18
23	20/1	RECEPTACLE			0.36	24					
25	60/3	10 HP COMPRESSOR	3.88			26					
27				3.88		28	20/1	RECEPTACLE		0.36	0.18
29					3.88	30	20/1	RECEPTACLE			
31	20/2	240V RECEPT	0.25	0.25		32	20/1	CO2 DET RECEPTACLE	0.18		
33						34	20/1	SPACE		0	0
35	20/2	240V RECEPT	0.25	0.25		36	20/1	SPACE			
37						38	20/1	SPACE		0	0
39	20/2	PUMP 240V RECEPT		1		40	20/1	SPACE			
41					1	42	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE			20.4	20.9	19						

	CONN KVA	CALC KVA		CONN KVA	CALC KVA	
LIGHTING	0.644	0.806	(125%)	RECEPTACLES	3.3	3.3 (50%>10)
LARGEST MOTOR	11.6	2.91	(25%)	CONTINUOUS	20.3	25.3 (125%)
MOTORS	15.6	15.6	(100%)	NONCONTINUOUS	6.24	6.24 (100%)
				COOLING	14.3	14.3 (100%)
				TOTAL LOAD		68.5
				BALANCED 3-PHASE LOAD		190 A

**LUMINAIRE SCHEDULE**

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS
A	○	(1)	LED HIGH BAY LIGHT FIXTURE	ELECTRONIC	CEILING	HUBBELL UTB2-940-MH-ED-U OR EQ.	128	120V 1P 2W
AE	○	(1)	LED HIGH BAY LIGHT FIXTURE W/ EMER. BACKUP	ELECTRONIC	CEILING	HUBBELL UTB2-940-MH-ED-U-ELL14	128	120V 1P 2W
B	○	(1)	ONE LIGHT PENDANT FIXTURE-RED FINISH	ELECTRONIC	PENDANT	PROGRESS P500014-143 OR EQ.	100	120V 1P 2W
C	□	(1) (280) REFOND LEDS 80 CRI 4000K, 2835	4FT LW SPEC LINEAR WRAP 4000K UNV 0-10 DIM	ELECTRONIC	CEILING	COOPER LIGHTING SOLUTIONS - METALUX (FORMERLY EATON), 4NLW4040C	37.7	120V 1P 2W
D	□	(1) LED	2 X 4 LED LAY-IN FIXTURE	ELECTRONIC	RECESSED	METALUX 24GR-LD5-48-F1-UNV-LB40-CD1-U OR EQUAL	37.4	120V 1P 2W
EMER	□	(2) LED	SQUARE HEAD LED EMERGENCY LIGHT	ELECTRONIC	WALL/CEILING	METALUX AP2SQLED OR EQUAL	1.8	120V 1P 2W
EMER/EXIT	⊗	(2) LED	LED COMBINATION EXIT/EMERGENCY LIGHT	ELECTRONIC	WALL/CEILING	METALUX APCH7RSQ OR EQUAL	3.4	120V 1P 2W
EXIT	⊗	(1) 1W LED	LED EMERGENCY EXIT	ELECTRONIC	WALL/CEILING	METALUX APX7R OR EQUAL	1	120V 1P 2W
SL	—	(1) LED	LED STRING LIGHT FIXTURE	ELECTRONIC	CEILING	LITESPHERE TIVOLI - PER OWNER	50	120V 1P 2W



**Designed to Build**  
A Possible Approach

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NORTH CAROLINA 28303

TELE. (910) 485-8567  
andy@designedtobuild.com

**STATIC LINE BREWERY**  
1671 BUFFALO LAKE RD  
SANFORD, NC

JOB CODE: 2022-030  
DRAWN BY: AJO  
CHECKED BY: CSL  
COPYRIGHT:  
DESIGNED TO BUILD

SHEET TITLE:  
12-13-22

E1 OF

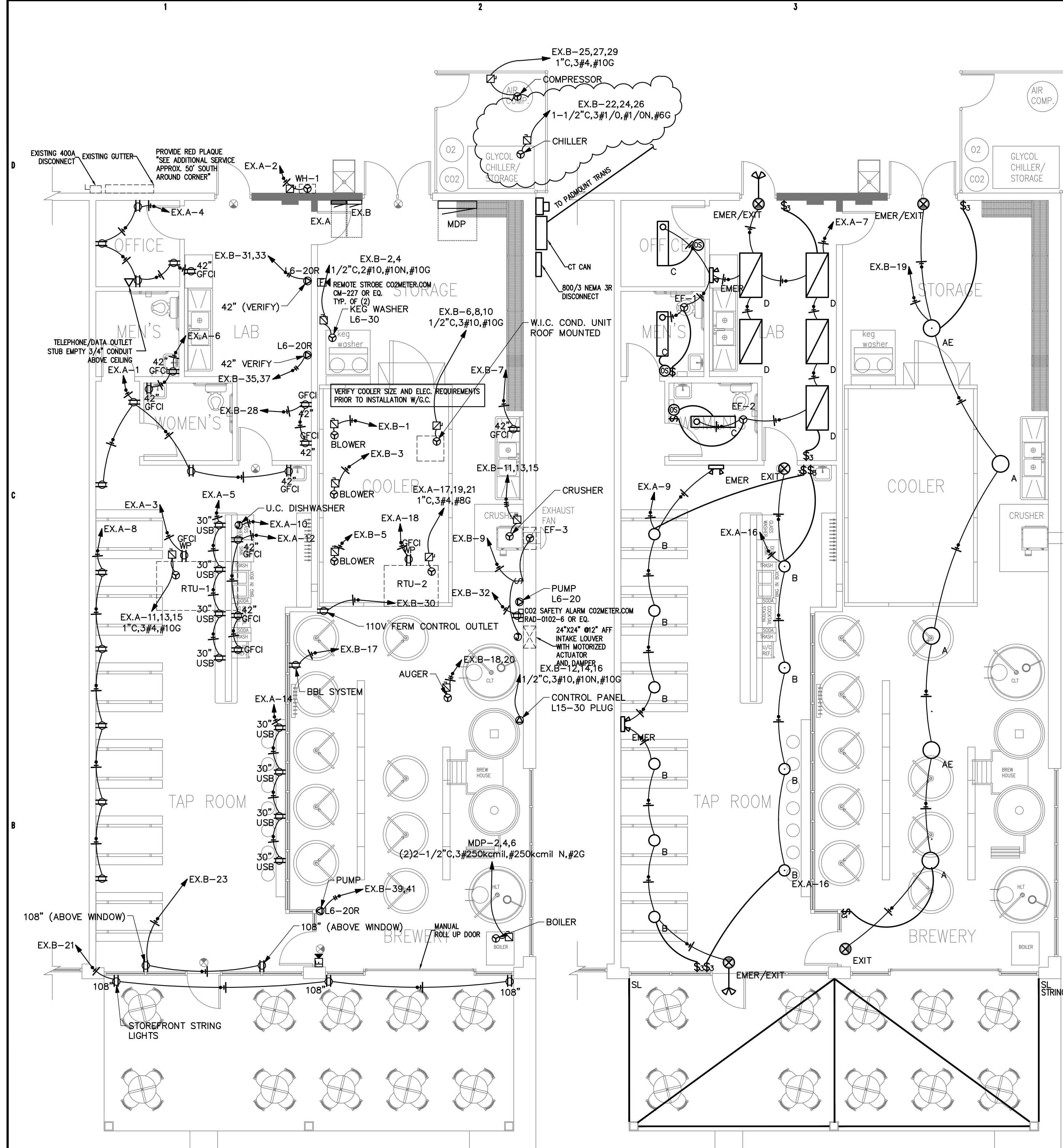
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Dec 13, 2022

**Coastal Plains Engineering, P.A.**  
FIRM # C-2059

295 Locklear Rd  
P.O. Box 1117  
Pembroke, NC 28372  
Voice: 910-321-7213  
www.coastalplainseng.com

**NORTH CAROLINA PROFESSIONAL ENGINEER**  
SEAL 20193  
CHRISTOPHER S. LOCKLEAR



**1 POWER PLAN**  
3/16"=1'-0"  
NOTE:  
POWER SUPPLIES/CONDUIT FOR ITEMS NOT ADJACENT TO A WALL WILL REQUIRE IN-SLAB CONDUIT COORDINATE WITH GC/EQUIPMENT SUPPLIER  
VERIFY EXACT LOCATION OF EQUIPMENT WITH BREWMAS/TER. COORDINATE ELECTRICAL REQUIREMENTS WITH MANUFACTURER.

**2 LIGHTING PLAN**  
3/16"=1'-0"  
BRYANT (HUBBELL) MSD1000W1 OR EQUAL WALL SWITCH OCCUPANCY SENSOR DUAL (ULTRASONIC AND PASSIVE INFRARED) TECHNOLOGY 1,000 SQUARE FOOT COVERAGE 800W INCANDESCENT, 1000W FLUORESCENT AT 120V AC

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

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

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

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM NON-METALLIC, HEAVY DUTY, HIGH IMPACT, POLYVINYLCHLORIDE (PVC), TYPE 1 WILL BE USED FOR CONCRETE ENCASEMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**3 ELECTRICAL NOTES**  
N.T.S.

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

ELECTRICAL SYSTEM AND EQUIPMENT

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

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

2208/2432 total interior wattage specified vs. allowed (whole building or space by space)  
total exterior wattage specified vs. allowed  
STRING LIGHTS PLUG AND CORD CONNECTED-TYP

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

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**STATIC LINE BREWERY**  
1671 BUFFALO LAKE RD  
SANFORD, NC

JOB CODE: 2022-030  
DRAWN BY: AJO  
CHECKED BY: CSL  
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DESIGNED TO BUILD

SHEET TITLE:  
REV 12-07-22  
REV 12-13-22

**E2**  
SHEET OF

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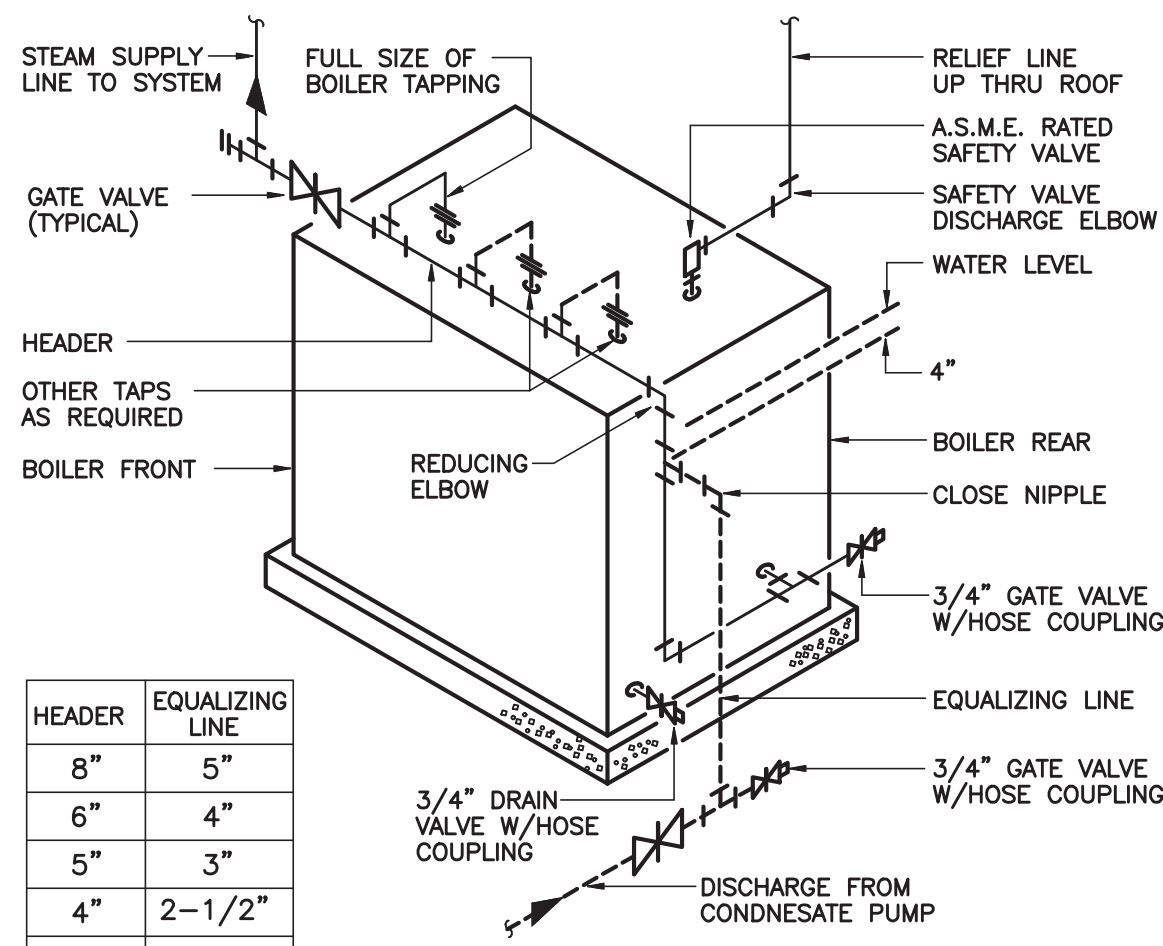


Dec 13, 2022

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FIRM # C-2059

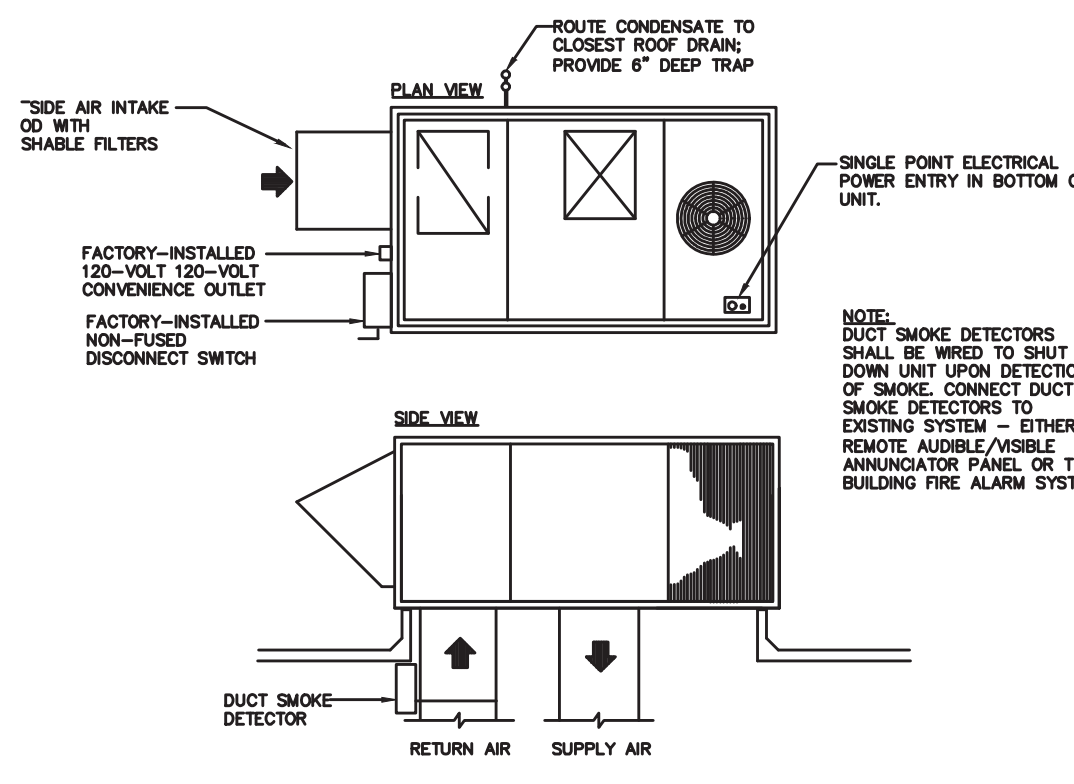
295 Locklear Rd  
P.O. Box 1117  
Pembroke, NC 28372  
Voice: 910-821-7213  
www.coastalplainseng.com

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

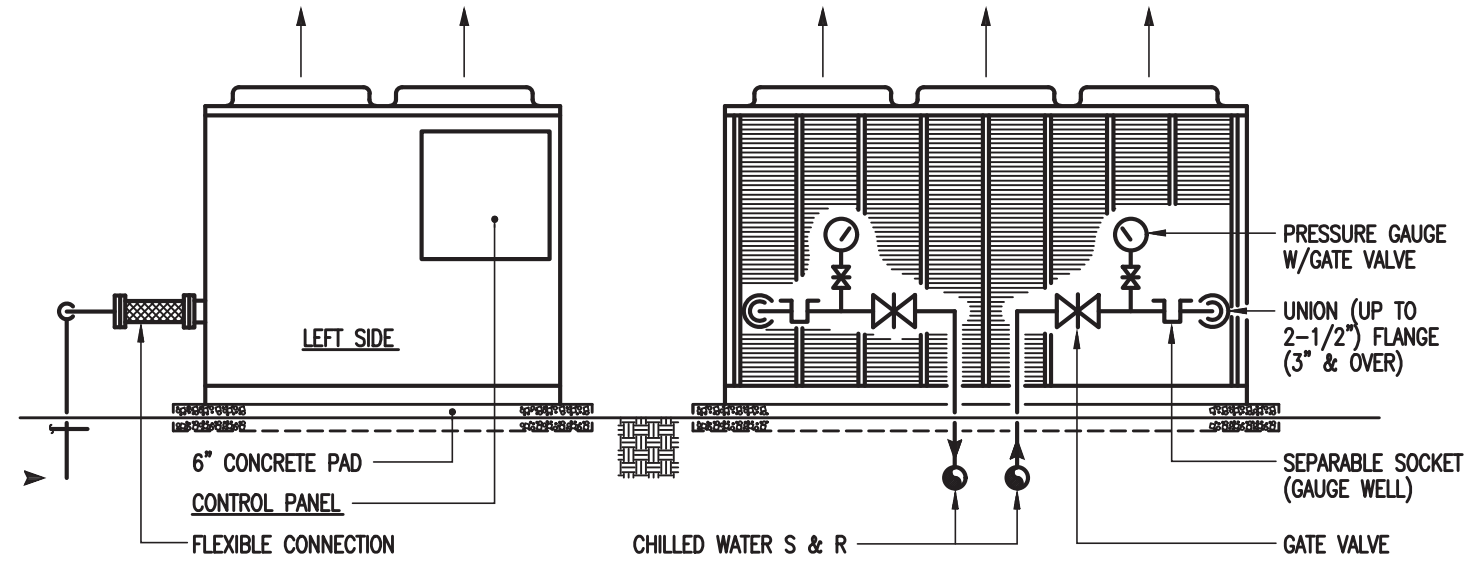


HEADER	EQUALIZING LINE
8"	5"
6"	4"
5"	3"
4"	2-1/2"
3"	2"
2-1/2"	1-1/2"
2"	1-1/2"

**1**  
M1 LOW PRESSURE STEAM BOILER PIPING DETAIL  
N.T.S.

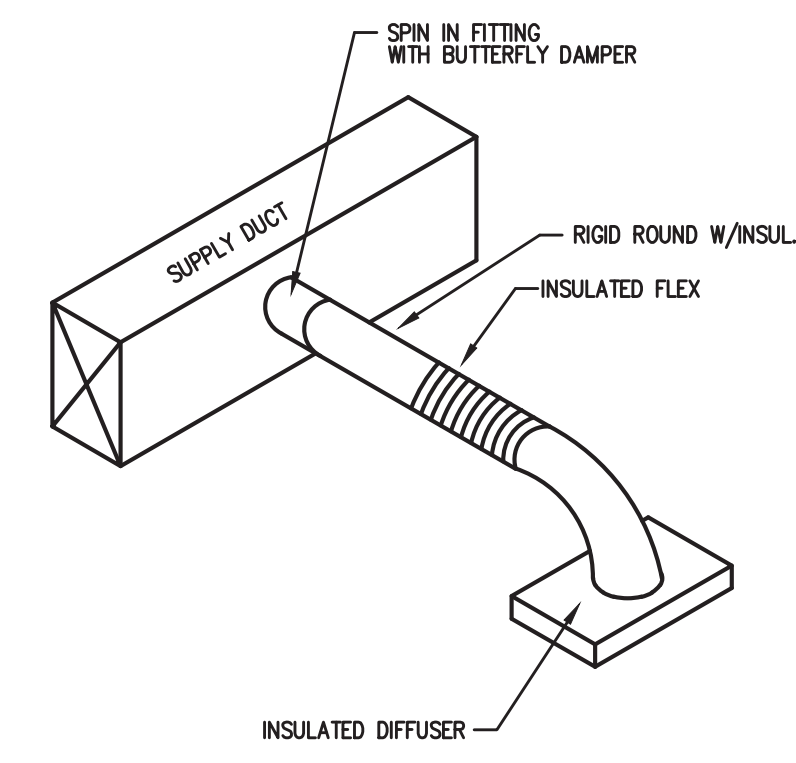


**3**  
M1 ROOF TOP UNIT DETAIL  
N.T.S.



**AIR-COOLED CHILLER PIPING CONNECTION DETAIL**  
N.T.S.

**2**  
M1 AIR COOLED LIQUID CHILLER DETAIL  
N.T.S.



**5**  
M1 DIFFUSER TAKEOFF DETAIL  
N.T.S.

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

ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED. ALL SUPPLY AND RETURN DUCTS AND FLEX SHALL BE INSULATED WITH MIN. R-6.0 INSULATION UNLESS OTHERWISE NOTED IN THE DRAWING.

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

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

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

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

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

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

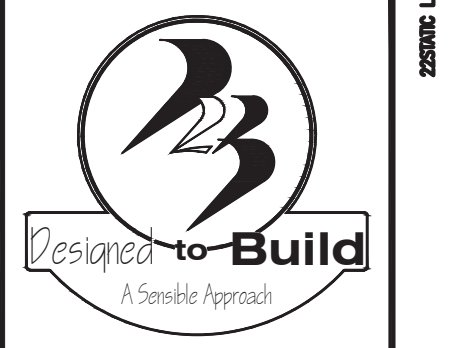
MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK WITH OTHER TRADES TO AVOID CONFLICTS.

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

ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

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

**4**  
M1 HVAC NOTES  
N.T.S.



ANDREW W. PRIVETTE, IA  
1920 FT. BRAGG ROAD  
FAYETTEVILLE,  
NORTH CAROLINA 28303  
TELE. (910) 485-8567  
andy@designedtobuild.com

STATIC LINE BREWERY  
1671 BUFFALO LAKE RD  
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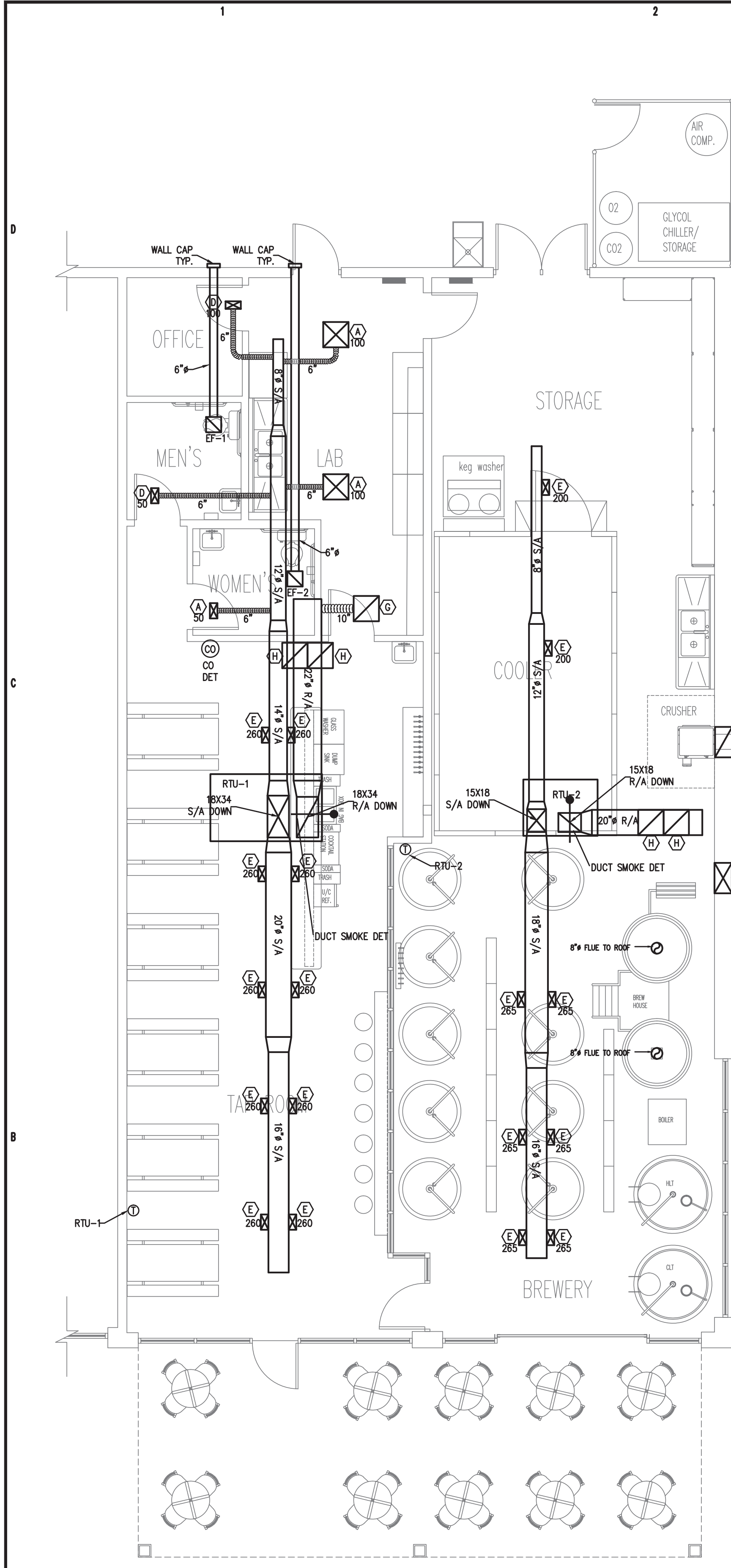
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PIRM # C-2059  
295 Locklear Rd  
Pembroke, NC 28372  
Voice: 910-821-7213  
www.coastalplainseng.com

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APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone 7b

winter dry bulb: 18°  
summer dry bulb: 94°

Interior design conditions

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

Building heating load: 84,320

Building cooling load: 109,358

Mechanical Spacing Conditioning System

Unitary

description of unit: PACKAGE HEAT PUMP  
heating efficiency: -  
cooling efficiency: 11.2/14.3 SEER  
size category of unit: < 65,000 BTU

Boiler

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

Chiller

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

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

ROOFTOP UNIT SCHEDULE

UNIT NO.	TOTAL CFM	O.A. CFM	EXT. S.P.	EVAP. FAN HP	COMPRESSOR AMPS	NO. OF COMPR.	FAN AMPS	NO. OF FANS	UNIT MCA	UNIT MOCP	UNIT VOLT	UNIT PHASE	CAPACITIES			REMARKS	REFRIG.	UNIT NET WEIGHT	
													GROSS COOLING	SEER	HEATING BTU				HEATING LOW
RTU-1	3000	686	0.48"	1	14.5	2	3.3	1	39	60	208	3	-	11.2	150,000	-	TRANE YSC092 7.5 TON PACKAGED ROOFTOP GAS/ELEC W/GFCI RECEPT LP KIT	R410A	797 LBS.
RTU-2	2000	133	0.45"	1	17.5	1	3.3	1	63	70	208	3	61,000	14.3	59,000	35,000	TRANE WSC060H 5 TON PACKAGED ROOFTOP HEAT PUMP WITH 9KW STRIPS GFI RECEPT	R410A	682 LBS.

FAN SCHEDULE

MARK	LOCATION	SERVICE	CFM	S.P.	WATTS	RPM	VOLT	PHASE	DRIVE	REMARKS
EF-1,2	CEILING	TOILETS	70	0.25"	20.2	850	120	1	DIRECT	CEILING MOUNTED FAN. PROVIDE W/B.D.D. AND WALL CAP GREENHECK SPA-70 OR EQ. 6" TO WALL CAP
EF-3	SIDEWALL	BREWERY	1481	0.25"	.25HP	1750	120	1	DIRECT	GREENHECK SIDEWALL FAN SET-12-432-A4 OR EQ.

DIFFUSER/RETURN SCHEDULE

MARK ON PLANS	CFM	AIR PATTERN	NECK SIZE	RUNOUT SIZE	REMARKS
(A)	50-145	4 WAY	6 X 6	6"	PRICE SERIES ASCD OFF WHITE, ALUM.
(B)	150-240	4 WAY	8 X 8	8"	PRICE SERIES ASCD OFF WHITE, ALUM.
(C)	350-400	4 WAY	10 X 10	10"	PRICE SERIES ASCD OFF WHITE, ALUM.
(D)	50-125	SINGLE DEFLECTION	10 X 4	6"	PRICE SERIES 610 OFF WHITE, ALUM.
(E)	150-275	SINGLE DEFLECTION	12 X 6	8"	PRICE SERIES 610 OFF WHITE, ALUM.
(F)	400-450	SINGLE DEFLECTION	16 X 6	12"	PRICE SERIES 610 OFF WHITE, ALUM.
(G)	N/A	N/A	12 X 12	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., FILTER RETURN
(H)	N/A	N/A	20 X 20	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., RETURN

OUTSIDE AIR CALCULATION - NC 2018 MECHANICAL CODE (TABLE 403.3.1.1)  $V_{bz} = R_p P_z + R_a A_z$

OCCUPANCY TYPE:	SF (Az)	# OF OCCUPANTS PER 1000 SF	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)	O.A. CFM PER SqFt (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED
RTU-1 OFFICE	59	5	0.295	5	0.06	5	0
MEN'S RESTROOM	58	0	0	0	0	0	70
WOMEN'S RESTROOM	56	0	0	0	0	0	70
LAB	233	5	1.165	5	0.06	20	
TAP ROOM	728	100	55	7.5	0.18	544	
BAR	127	100	12.7	7.5	0.18	118	
<b>TOTAL CFM REQUIRED</b>						<b>686</b>	<b>140</b>
<b>TOTAL CFM FURNISHED</b>						<b>686</b>	<b>140</b>
RTU-2 STORAGE	438	0	0	0	0.12	53	0
BREWERY	674	0	0	0	0.12	81	0
<b>TOTAL CFM REQUIRED</b>						<b>133</b>	<b>0</b>
<b>TOTAL CFM FURNISHED</b>						<b>133</b>	<b>0</b>

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

NOTE:  
ALL EXPOSED ROUND DUCT SHALL BE DOUBLE WALL SPIRAL WITH A PRIMER FINISH  
FINAL COLOR PER OWNER BY GC

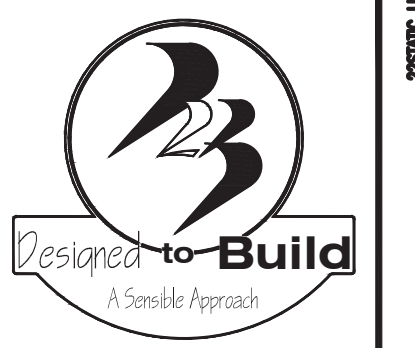
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Coastal Plains Engineering, P.A.  
FIRM # C-2069

295 Locklear Rd  
P.O. Box 1117  
Fayetteville, NC 28372  
Voice: 910-521-7213  
www.coastalplainseng.com

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ANDREW W. PRIVETTE, AIA  
1920 FT. BRAGG ROAD  
FAYETTEVILLE,  
NORTH CAROLINA 28303  
TELE. (910) 485-8567  
andy@designedtobuild.com

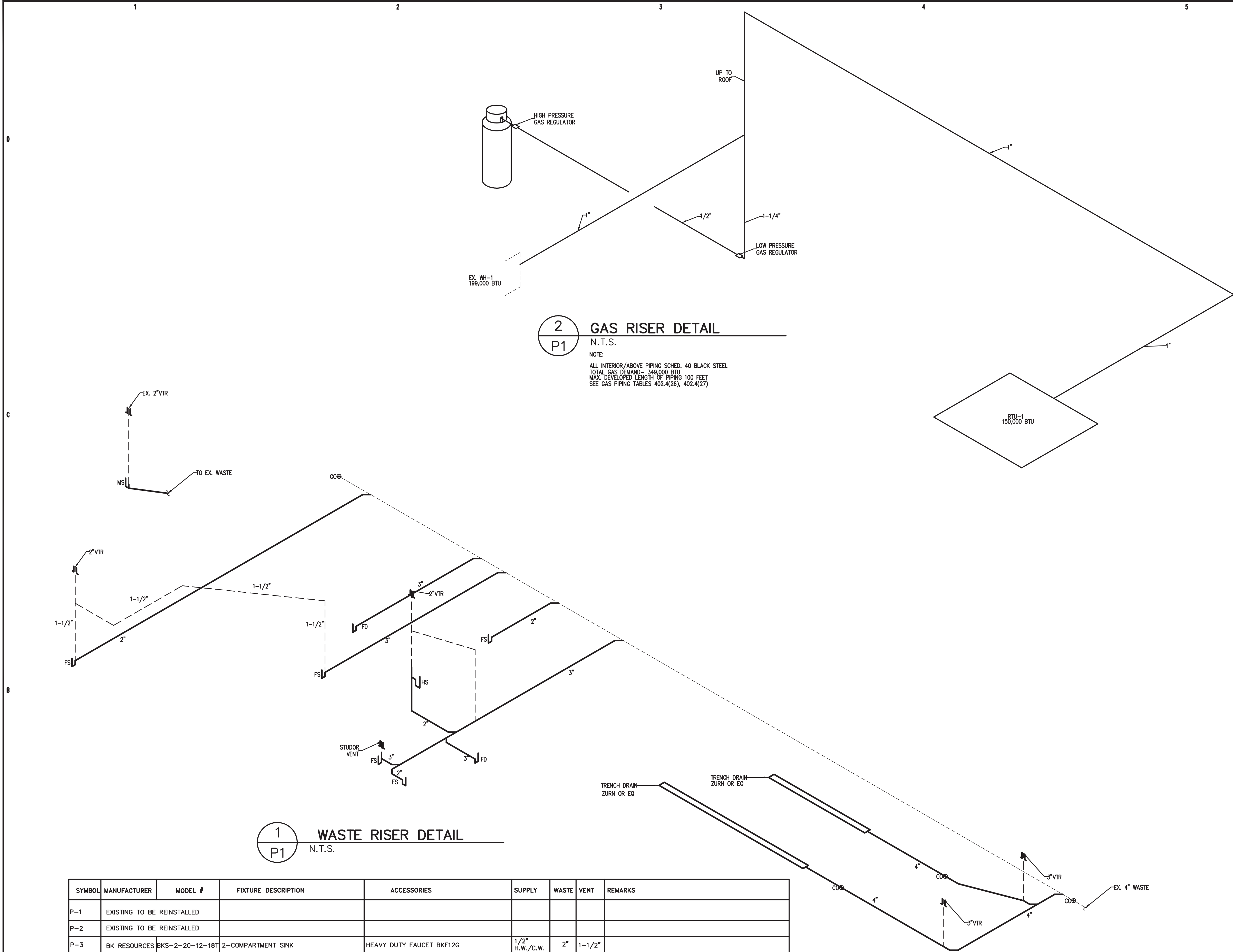
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**2**  
P1  
**GAS RISER DETAIL**  
N.T.S.  
NOTE:  
ALL INTERIOR/ABOVE PIPING SCHED. 40 BLACK STEEL  
TOTAL GAS DEMAND-349,000 BTU  
MAX. DEVELOPED LENGTH OF PIPING 100 FEET  
SEE GAS PIPING TABLES 402.4(26), 402.4(27)

**1**  
P1  
**WASTE RISER DETAIL**  
N.T.S.

SYMBOL	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	ACCESSORIES	SUPPLY	WASTE	VENT	REMARKS
P-1	EXISTING TO BE REINSTALLED							
P-2	EXISTING TO BE REINSTALLED							
P-3	BK RESOURCES	BKS-2-20-12-18T	2-COMPARTMENT SINK	HEAVY DUTY FAUCET BKF12G	1/2" H.W./C.W.	2"	1-1/2"	
P-4	BK RESOURCES	BKHS14101	HAND SINK	4" OC DECK FAUCET BKD3GG	1/2" H.W./C.W.	2"	1-1/2"	
P-5	JACKSON WWS	DISHSTAR LT	DISHWASHER, UNDERCOUNTER, 24-1/4", LOW TEMP		1/2" H.W.	2"	1-1/2"	
P-6	BK RESOURCES	UB4181014HS12PG	UNDERBAR SINK UNIT	4" OC SPLASH MOUNT LEAD-FREE FAUCET (BKF26G)	1/2" H.W./C.W.	2"	1-1/2"	
P-7	FIAT	MSB2424	MOP SINK	CHROME FAUCET, ADJUSTABLE BRACE AND PAUL HOOK	1/2" H.W./C.W.	2"	1-1/2"	
HB	WOODFORD		HOSE BIB, OUTDOOR FREEZEPROOF		1/2" C.W.	-	-	
HB-H&C	WOODFORD		HOSE BIB, INDOOR, HOT&COLD		1/2" H.W./C.W.	-	-	
EX. WH-1	EXISTING LP GAS TO REMAIN							

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

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

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

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI

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

THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.

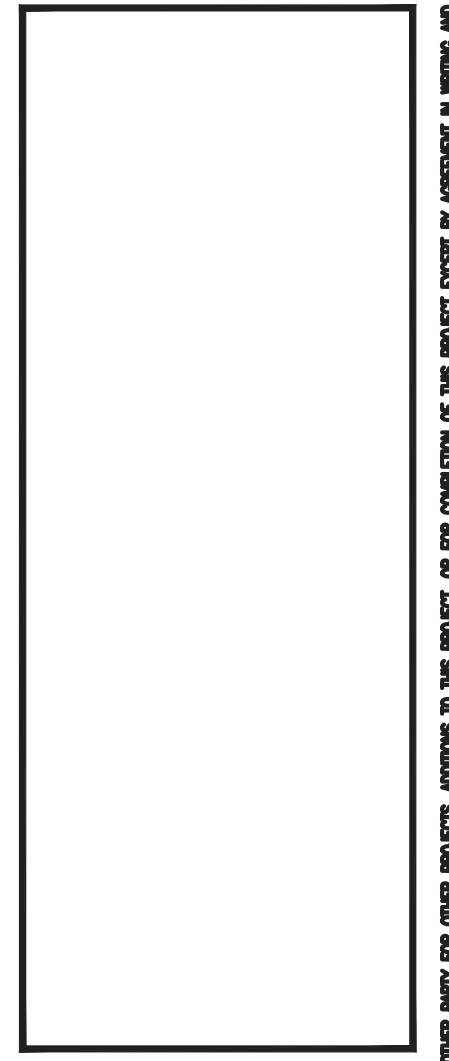
LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS

**3**  
P1  
**PLUMBING NOTES**  
N.T.S.



ANDREW W. PRIVETTE, AIA  
1920 FT. BRAGG ROAD  
FAYETTEVILLE,  
NORTH CAROLINA 28303  
TELE. (910) 485-8567  
andy@designedtobuild.com



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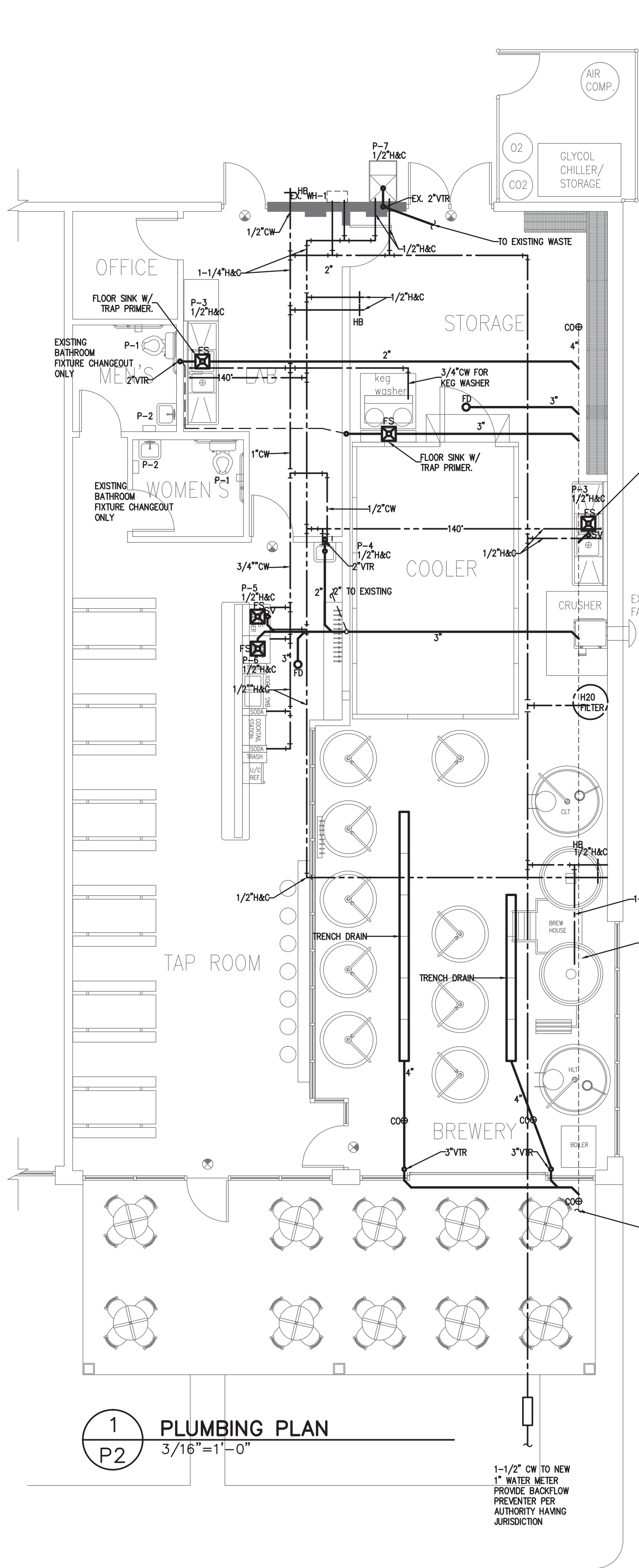
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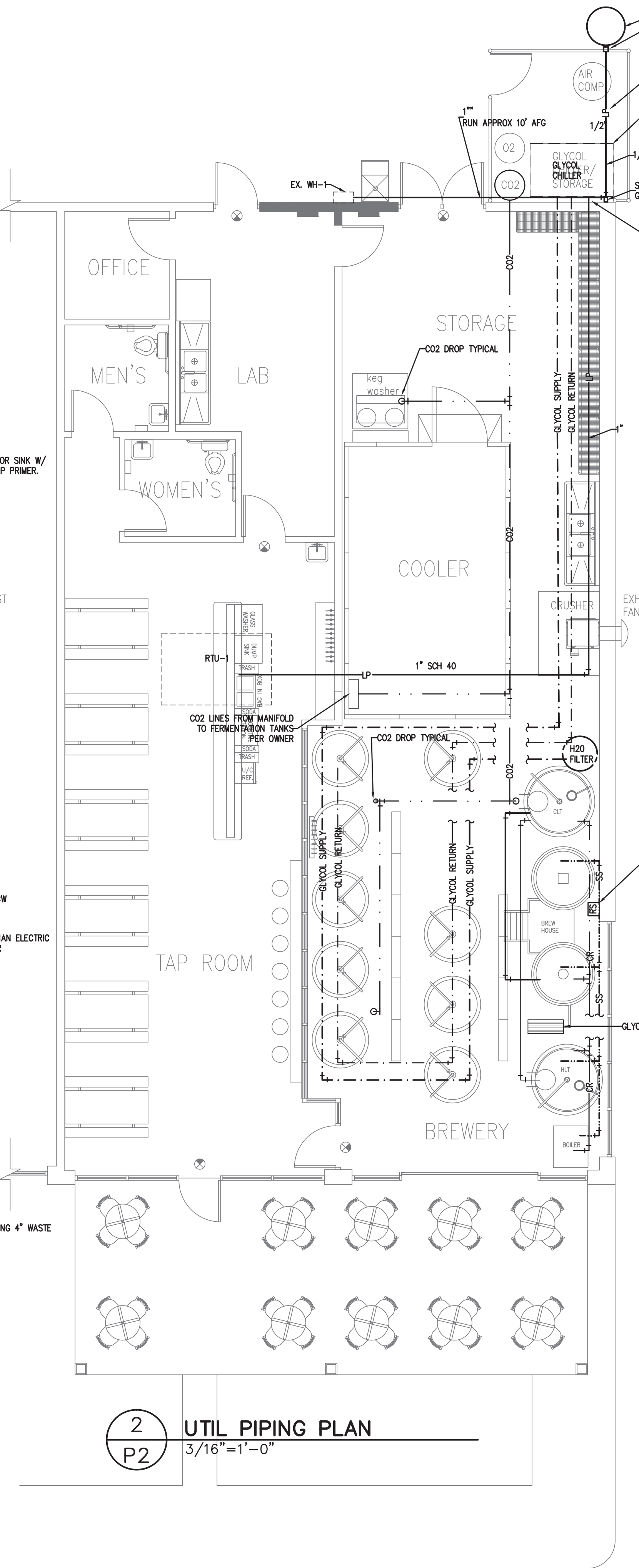
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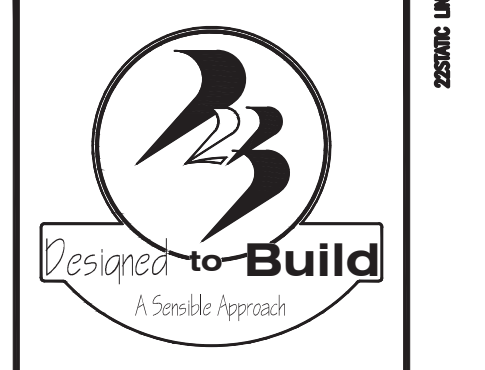
1 PLUMBING PLAN  
3/16"=1'-0"

1-1/2" CW TO NEW 1" WATER METER PROVIDE BACKFLOW PREVENTER PER AUTHORITY HAVING JURISDICTION



2 UTIL PIPING PLAN  
3/16"=1'-0"

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



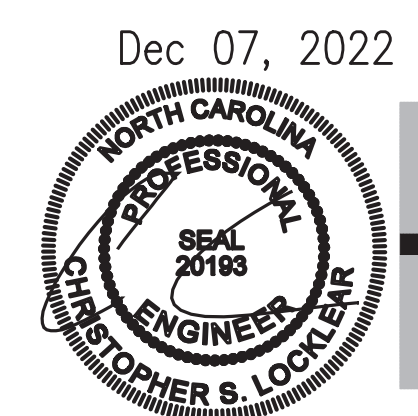
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FIRM # C-2059  
295 Locklear Rd  
P.O. Box 1117  
Pembroke, NC 28372  
Voice: 910-521-7213  
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