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
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 ☐ 1st 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 ☐ I-B ☐ II-A ☒ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ☐ 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
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor	**2699**	**2699**	**2699**
Basement			
Total	**2699**	**2699**	**2699**

~~ALLOWABLE AREA~~
Primary Occupancy Classification(s):
Assembly ☐ A-1 ☒A-2 ☐ A-3 ☐A-4 ☐A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☒ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐H-3 Combust ☐ H-4 Health ☐ H-5 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.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \ldots\ldots \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
FIRST	**A-2 SEATING/BAR**	**762**	**9500**	**4085**	**13585**
FIRST	**F-2 BREWING**	**1617**	**23000**	**9890**	**32890**

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 151 (F)
b. Total Building Perimeter = 222 (P)
c. Ratio (F/P) = 0.68 (F/P)
d. W = Minimum width of public way = 30 (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25]$ x $W/30$ = 43 (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
[4] 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.
[5] 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'**	**21'4"**	
Building Height in Stories (Table 504.4)	**2**	1	

[1] 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)	RATING REQ'D	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
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		**0**					
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 0	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.

~~LIFE SAFETY PLAN 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	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) – EXISTING, NO CHANGE

USE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS / TUBS	DRINKING FOUNTAINS		SERVICE SINK
	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		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)

ENERGY SUMMARY- EXISTING NO CHANGE

ENERGY REQUIREMENTS:

Existing building envelope complies with code: ☒ (If checked, the remainder of this section is not applicable.)

Exempt Building: ☐ Provide code or statutory reference:

Climate Zone: ☐ 3A ☐ 4A ☐ 5A

Method of Compliance:

Energy Code: ☐ Performance ☐ Prescriptive
ASHSAE 90.1: ☐ Performance ☐ Prescriptive
Other: ☐ Performance (If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Skylights in each assembly:
U-Value of skylight:
total square footage of skylights in each assembly:

Exterior Walls (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Openings (windows or doors with glazing)
U-Value of assembly:
Solar Heat Gain Coefficient:
Projection Factor:
Door R-Values:

Walls below grade (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:

Floors over unconditioned space (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:

Floors slab on grade
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Horizontal/vertical requirement:

LIST OF DRAWINGS:

INFORMATIONAL:
G-101 COVER SHEET, 2018 NORTH CAROLINA BUILDING CODE SUMMARY APPENDIX B
G-102 LIFE SAFETY PLAN & ACCESSIBILITY

ARCHITECTURAL:
D-101 DEMOLITION PLAN
A-101 PROPOSED FLOOR PLAN
A-102 REFLECTIVE CEILING PLAN
A-103 INTERIOR ELEVATIONS
A-201 EXTERIOR ELEVATIONS
A-202 CANOPY DETAILS

ELECTRICAL:
E-1 ELECTRICAL PANEL & RISER
E-2 ELECTRICAL & LIGHTING FLOOR PLANS

MECHANICAL:
M-1 HVAC NOTES & DETAILS
M-2 HVAC FLOOR PLAN & SCHEDULES

PLUMBING:
P-1 WASTE & GAS RISER
P-2 WASTE & WATER FLOOR PLANS

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.
Reviewed for Code Compliance
02/05/2023
Harnett COUNTY NORTH CAROLINA

STATIC LINE BREWERY
1671 BUFFALO LAKE RD
SANFORD, NORTH CAROLINA 27332

Designed to Build — A Sensible Approach

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

1982 Andrew W. Privette 40 YEARS REGISTERED ARCHITECT 2022

OCTOBER 10, 2022

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A Sensible Approach
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ANDREW W. PRIVETTE REGISTERED ARCHITECT 3877 NORTH CAROLINA FAYETTEVILLE 10/10/2022

STATIC LINE BREWERY
1671 BUFFALO LAKE RD
SANFORD, NC

MARK	DATE	DESCRIPTION	CHK

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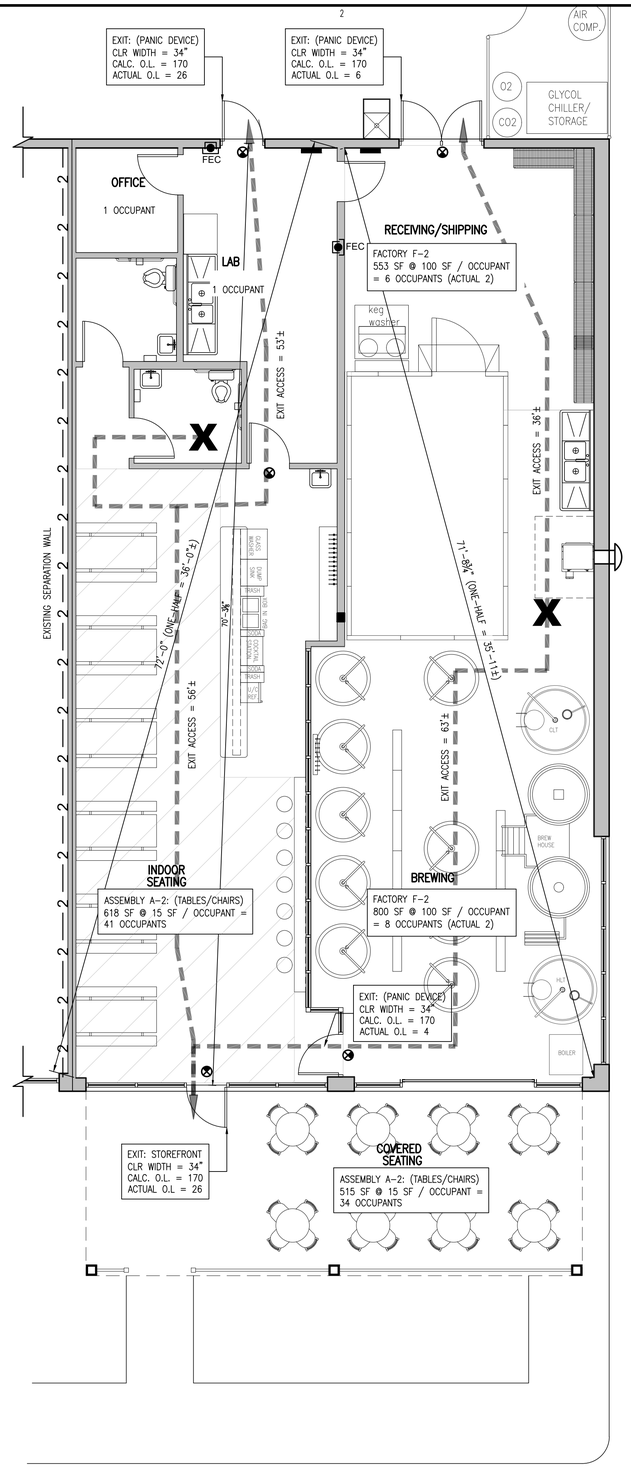
CHECKED BY: A. PRIVETTE
COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE: COVER SHEET & CODE SUMMARY

G-101
SHEET 1 OF 2

PERMITTING STAMP:

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.



LEGEND:

- EGRESS TRAVEL PATH
- X — REMOTE POINT
- FEC — FIRE EXTINGUISHER WITH CABINET
- EMERGENCY LIGHT
- EMERGENCY LIGHT / EXIT SIGN COMBO
- EXIT SIGN
- OCCUPANCY LOAD (OL)

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

Designed to Build
A Turnkey Approach
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STATIC LINE BREWERY
1671 BUFFALO LAKE RD
SANFORD, NC

MARK	DATE	DESCRIPTION	CHK

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SHEET TITLE:
LIFE SAFETY PLAN

DATE: 12/15/2022

G-102
SHEET 2 OF 2

PERMITTING STAMP:

EACH CONTRACTOR IS REQUIRED TO INCLUDE ALL MINOR ITEMS, WHETHER OR NOT SHOWN ON PLANS, AS REQUIRED BY CODE AND FOR WORKING SYSTEMS, IN INITIAL COST OF WORK, AND AT NO ADDITIONAL COST TO THE OWNER
ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS BY THE OWNER OR CONTRACTOR MUST BE APPROVED BY THE ARCHITECT IN WRITING AND PRIOR TO CONSTRUCTION.

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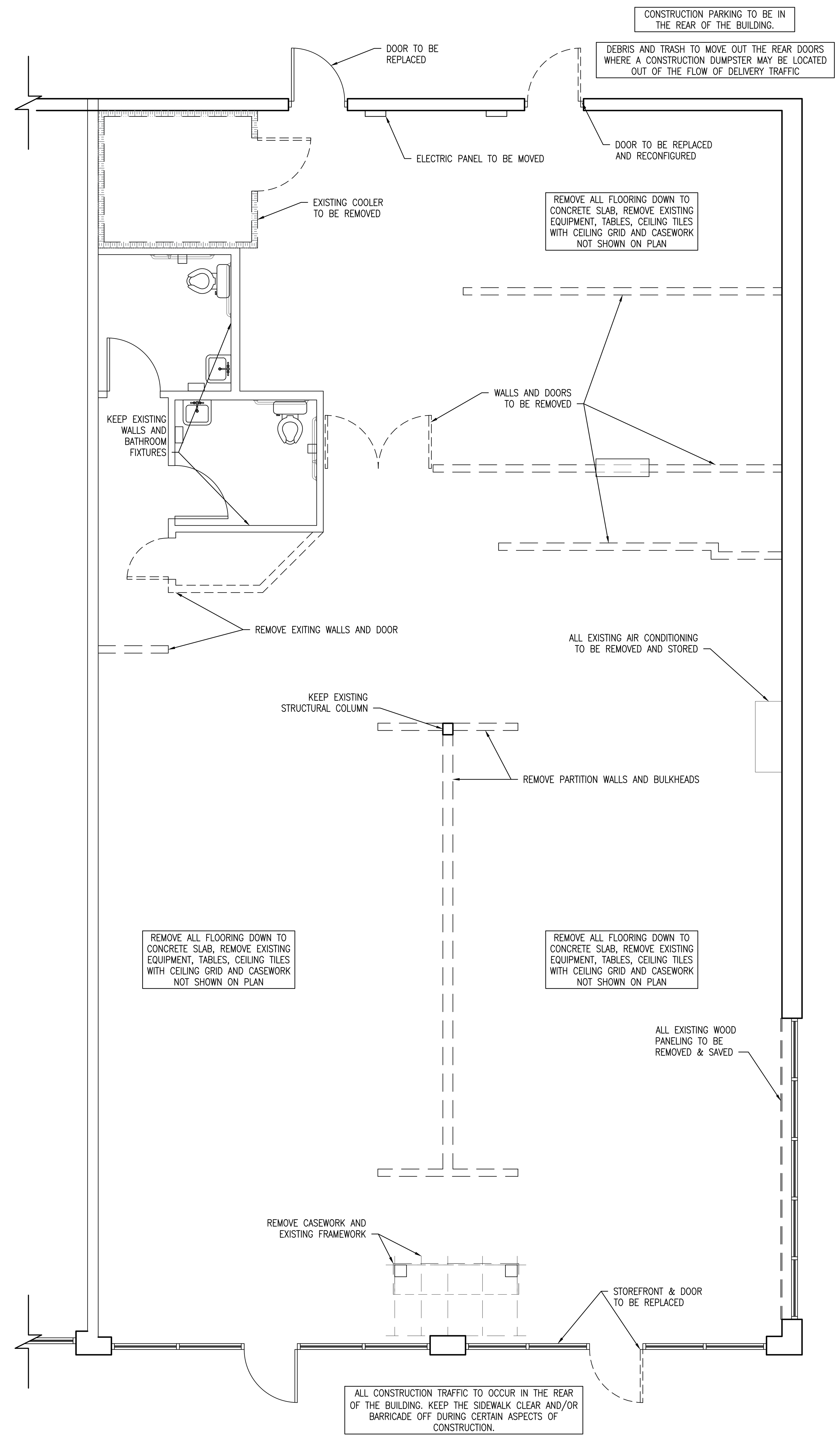

A1 DEMOLITION PLAN

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

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. TTHE 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.

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A Sensible Approach

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10/10/2022

STATIC LINE BREWERY
1671 BUFFALO LAKE RD
SANFORD, NC

MARK	DATE	DESCRIPTION	CHK

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SHEET TITLE:
DEMOLITION PLAN
OCTOBER 10, 2022

DATE: 12/15/2022

D-101

SHEET 1 OF TBD

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EACH CONTRACTOR IS REQUIRED TO INCLUDE ALL MINOR ITEMS, WHETHER OR NOT SHOWN ON PLANS, AS REQUIRED BY CODE AND FOR WORKING SYSTEMS, IN INITIAL COST OF WORK, AND AT NO ADDITIONAL COST TO THE OWNER

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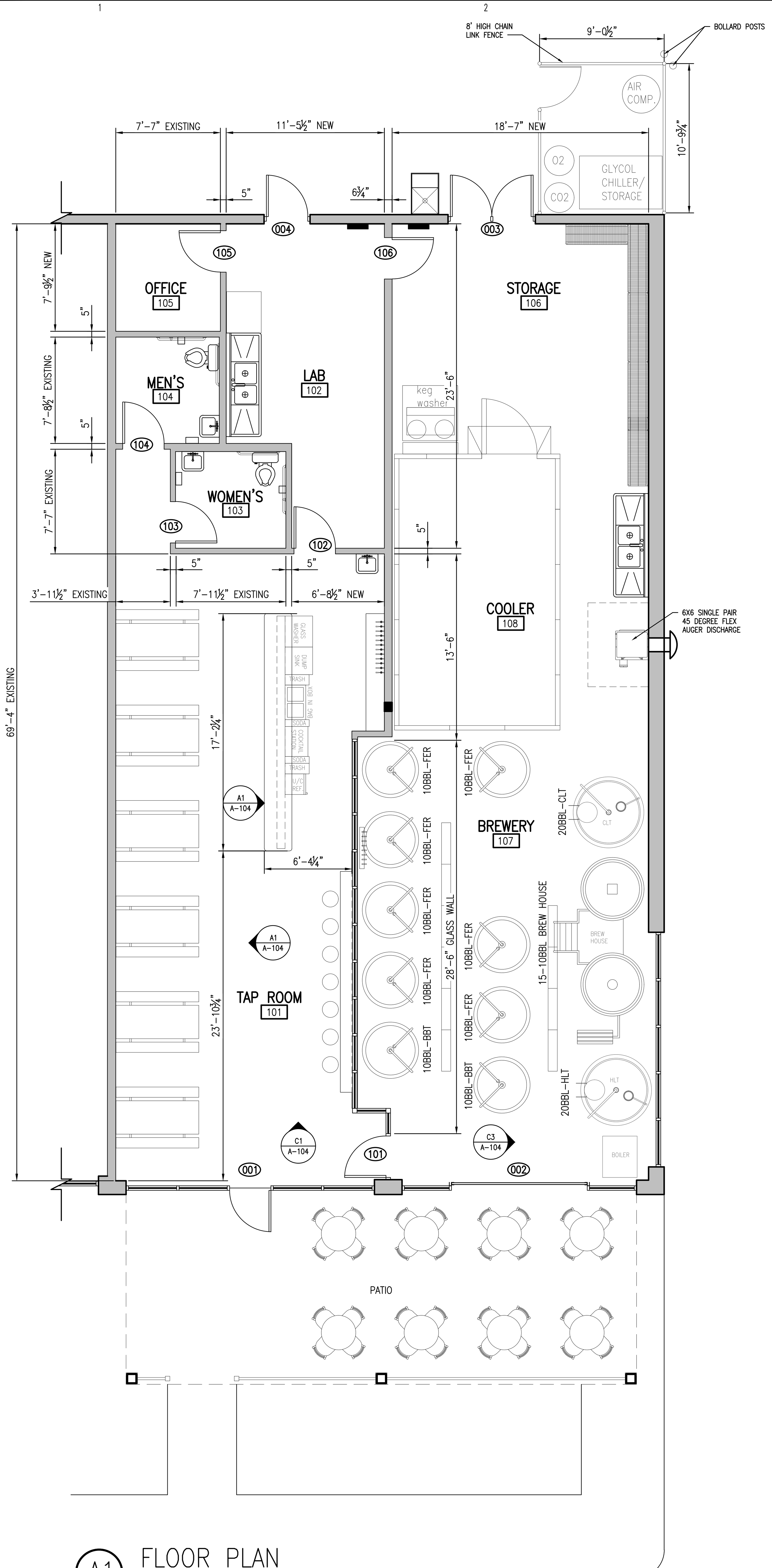

A1 FLOOR PLAN
SCALE: 3/16" : 1'-0"

DOOR SCHEDULE

P=PAINT SHEET 3.0 S=STAIN SHEET 3.0 H.M.= HOLLOW METAL MFR=MANUFACTURER INSUL=INSULATION N/A=NOT APPLICABLE L=LEFT HANDED R=RIGHT HANDED LR=LEFT HAND REVERSE RR=RIGHT HAND REVERSE

NO.	TYPE	WIDTH	HT.	THICK	GLASS	DR. MAT.	CORE MAT.	FACE MAT.	LABEL	FRAME	DR. FIN.	FRAME FIN.	HAND	HARDWARE SET	REMARKS
001	EXISTING	3'-0"	7'-0"	–	EXISTING	STOREFRONT	–	–	N/A	EXSTG	MFR	MFR	LR	EXISTING PUSH/PULL	STOREFRONT SYSTEM AND DOOR TO REMAIN
002	NEW	10'-0"	9'-4"	MFR	TEMP/INSUL	ALUMINUM	–	CLR. ANODZ.	N/A	EXSTG	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	PAIR	5	PAIR, 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	BIRCH	N/A	H.M.	S	P	L	6	–
103	EXISTING	3'-0"	6'-8"	1 3/4"	N/A	WOOD	SOLID	BIRCH	N/A	H.M.	S	P	L	1	–
104	EXISTING	3'-0"	6'-8"	1 3/4"	N/A	WOOD	SOLID	BIRCH	N/A	H.M.	S	P	R	1	–
105	NEW	3'-0"	6'-8"	1 3/4"	N/A	WOOD	SOLID	BIRCH	N/A	H.M.	S	P	R	3	–
106	NEW	3'-0"	6'-8"	1 3/4"	N/A	WOOD	SOLID	BIRCH	N/A	H.M.	S	P	L	3	–

HARDWARE NOTES:

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

SET # 1: (PRIVACY)

LOCKSET:	SCHLAGE	AL40S-SAT-US26 (BATH PRIVACY)
HINGES:	MCKINNEY	MPB79 3 EACH 4.5 X 4 US26 BALL BEARING
DOOR/HINGE STOP:	GLYNN-JOHNSON	WALL: 60W-US26

SET # 2: (PASSAGE)

LOCKSET:	SCHLAGE	AL10S-SAT-US26 (PASSAGE)
HINGES:	MCKINNEY	MPB79 3 EACH 4.5 X 4 US26 BALL BEARING
DOOR/HINGE STOP:	GLYNN-JOHNSON	WALL: 60W-US26

SET # 3: (OFFICE)

LOCKSET:	SCHLAGE	AL50PD-SAT-US26 (ENTRANCE/OFFICE)
HINGES:	MCKINNEY	MPB79 3 EACH 4.5 X 4 US26 BALL BEARING
DOOR/HINGE STOP:	GLYNN-JOHNSON	WALL: 60W-US26

SET # 4: (PANIC EXIT)

PANIC DEVICES:	VONDUPRIN	35L – SERIES 35 TOUCH BAR WITH LEVER TRIM, LEVER #03, US26 FINISH TYPICAL. RIM TYPE FLAT BAR PANIC DEVICES BY VONDUPRIN OR ADAMS-RITE
HINGES:	SF MFR.	PER STOREFRONT MANUFACTURER
CLOSER:	SF MFR	PER STOREFRONT MANUFACTURER
WEATHER STRIPPING:	SF MFR.	PER STOREFRONT MANUFACTURER
DOOR/HINGE STOP:	N/A	N/A

SET # 5: PAIR PANIC EXIT)

PANIC DEVICES:	VONDUPRIN	35L – SERIES 35 TOUCH BAR WITH LEVER x TWO RIM TYPE FLAT BAR PANIC DEVICES BY VONDUPRIN OR ADAMS-RITE REMOVABLE MULLION WITH INTEGRAL LOCK
HINGES:	MCKINNEY	TA-2714 6 EACH 4.5 X 4.5 S.S. BALL BEARING
CLOSER:	NORTON	8301-BF-US26 x TWO
WEATHER STRIPPING:	NATIONAL GUARD	NGP #172SDKB TOP & SIDES THRESHOLD 896DKB & 36 E VINYL DOOR BOTTOMS
DOOR/HINGE STOP:	N/A	N/A

SET # 6: (PANIC EXIT)

PANIC DEVICES:	VONDUPRIN	35L – SERIES 35 TOUCH BAR WITH LEVER TRIM, LEVER #03, US26 FINISH TYPICAL. RIM TYPE FLAT BAR PANIC DEVICES BY VONDUPRIN OR ADAMS-RITE
HINGES:	MCKINNEY	TA-2714 3 EACH 4.5 X 4.5 S.S. BALL BEARING
CLOSER:	NORTON	8301-BF-US26
DOOR/HINGE STOP:	N/A	N/A

ROOM FINISH SCHEDULE

NO.	ROOM	FLOORS MAT'L & FIN.	BASE MAT'L&FIN.	WALLS MAT'L & FIN.	CEILING MAT'L&FIN.	FRAMES MAT'L&FIN.	CEILING HEIGHT	TRIM FINISH
101	TAP ROOM	4	1	1	3	1, 2	3	1, 2
102	LAB	4	1	1, 2	1	1	1	1
103	WOMEN'S TOILET	3, 4	1, 3	1, 2, 3	2	1	2	1
104	MEN'S TOILET	3, 4	1, 3	1, 2, 3	2	1	2	1
105	OFFICE	4	1	1	2	1	2	1
106	STORAGE	4	1	2	3	1	3	1
107	BREWERY	4	1	2	3	1, 2	3	1
108	COOLER	5	4	4	4	3	4	
–	–							
–	–							

	FLOORS	BASE	WALLS	CEILING	FRAMES	CEILING HEIGHT	TRIM
1	DIRECT-GLUED CARPET	RUBBER BASE	GYPSUM BOARD-PAINTED	ACOUSTICAL CEILING TILE	HOLLOW METAL-PAINTED	9' TO 10'	PAINTED
2	VINYL COMPOSITION TILE	WOOD SPEED BASE	FIBERGLASS REINFORCED PLASTIC	GYPSUM BAORD-PAINTED	STOREFRONT ALUMINUM	EXISTING	STAINED AND/OR PAINTED BAR MATERIALS
3	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	EXPOSED	PER MANUFACTURER	EXPOSED STRUCTURE VARIES	
4	POLISHED & STAINED CONCRETE	NO BASE	PER MANUFACTURER	PER MANUFACTURER		PER MANUFACTURER	
5	METAL COOLER FLOOR						

NOTES:
SERVICE BAR AND COUNTERS DESIGN BY OWNER

Designed to Build
A Sensible Approach

ANDREW W. PRIVETTE, AIA

1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303

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ANDREW W. PRIVETTE
REGISTERED ARCHITECT
3877
NORTH CAROLINA
FAYETTEVILLE, NC
10/18/2022

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

SHEET TITLE:
PROPOSED FLOOR PLAN

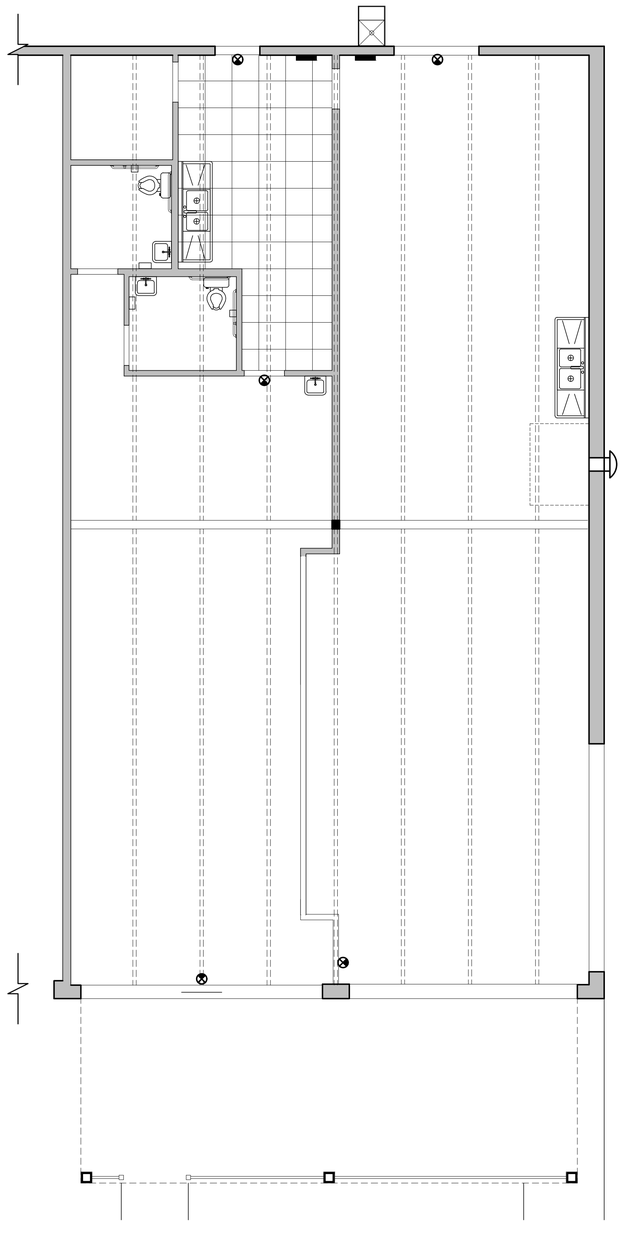
DATE: 12/15/2022

A-101
SHEET 1 OF 5

PERMITTING STAMP:

EACH CONTRACTOR IS REQUIRED TO INCLUDE ALL MINOR ITEMS, WHETHER OR NOT SHOWN ON PLANS, AS REQUIRED BY CODE AND FOR WORKING SYSTEMS, IN INITIAL COST OF WORK, AND AT NO ADDITIONAL COST TO THE OWNER
ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS BY THE OWNER OR CONTRACTOR MUST BE APPROVED BY THE ARCHITECT IN WRITING AND PRIOR TO CONSTRUCTION.

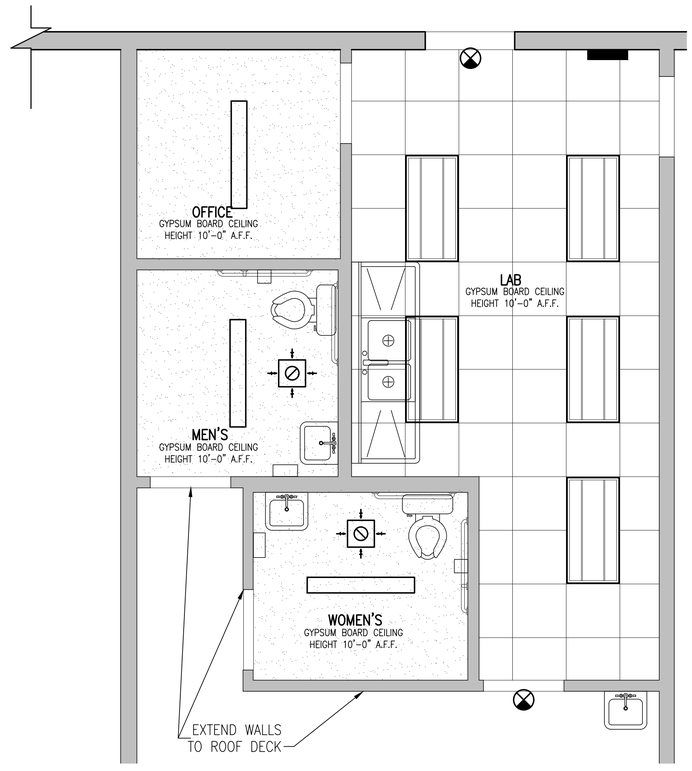
ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. CONTRACTORS SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE REQUIREMENTS OF 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.



A1 REFLECTED CEILING PLAN
SCALE: 3/16" : 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



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

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FAYETTEVILLE

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:
REFLECTED CEILING PLAN

DATE: 12/15/2022

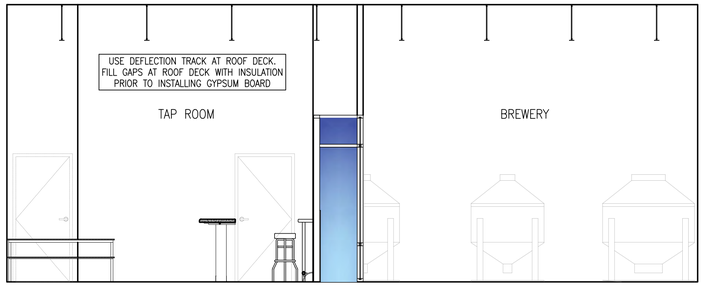
A-102
SHEET 2 OF 5

PERMITTING STAMP:

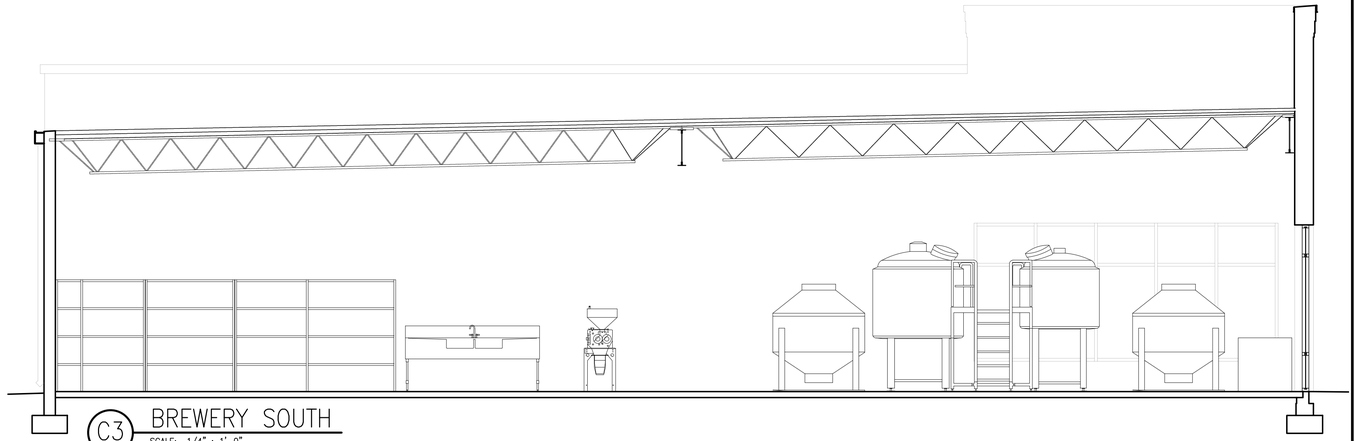
22STATIC LINE

THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE PROJECT OWNER OR ANY OTHER PARTY FOR OTHER PROJECTS, ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED IN THE EVENT THAT THE ARCHITECT IS IN DEFAULT OF THE AGREEMENT OR THE OWNER FAILS TO PAY THE ARCHITECT AS SET FORTH IN THE AGREEMENT. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT, THE DRAWINGS, SPECIFICATIONS AND THE DESIGN ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT.

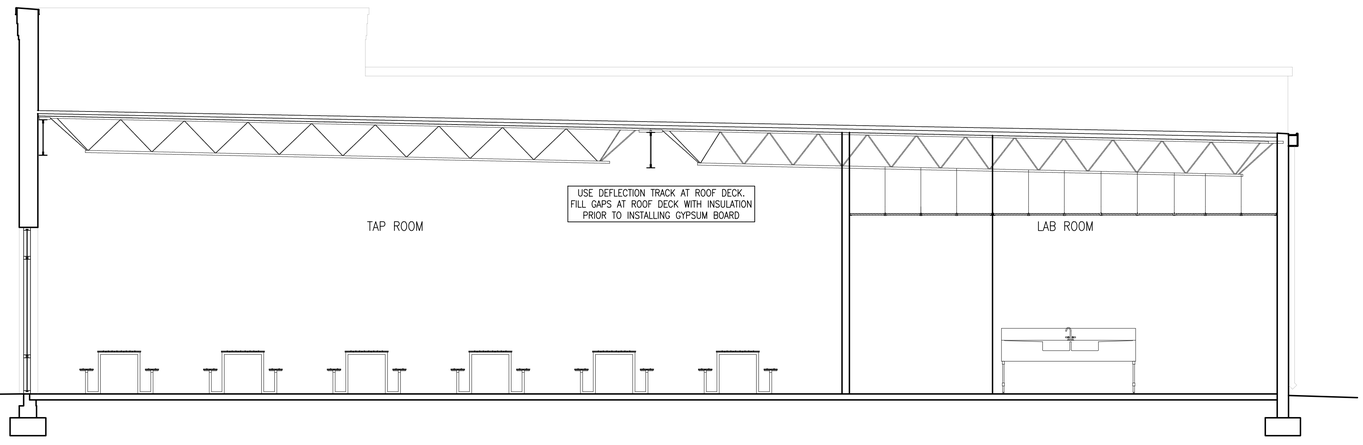
ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. CONTRACTORS SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE REQUIREMENTS OF 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.



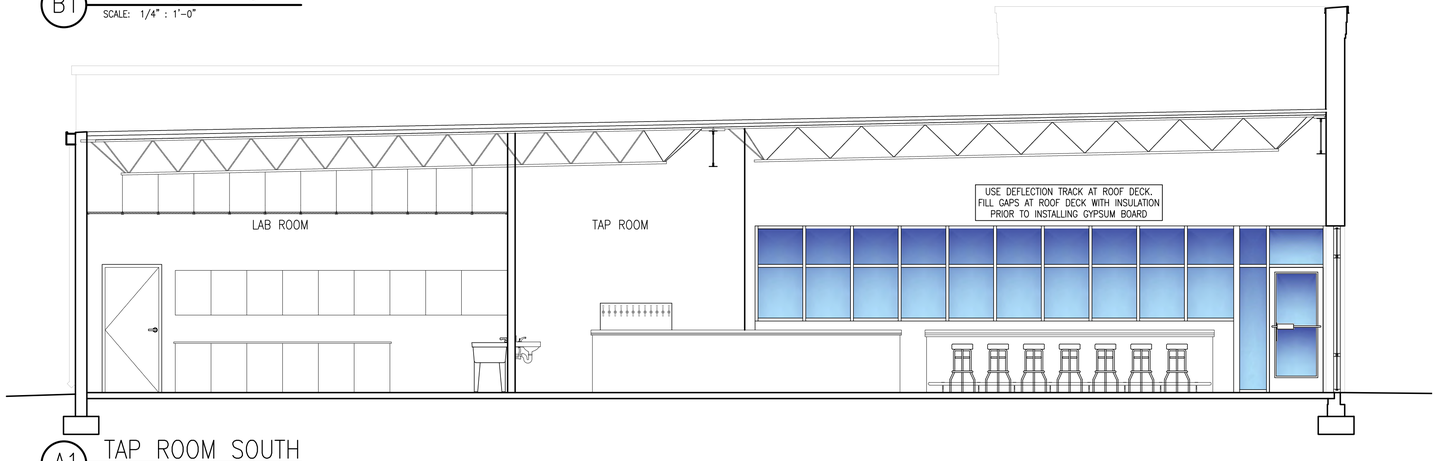
C1 TAP ROOM EAST
SCALE: 1/4" : 1'-0"



C3 BREWERY SOUTH
SCALE: 1/4" : 1'-0"



B1 TAP ROOM NORTH
SCALE: 1/4" : 1'-0"



A1 TAP ROOM SOUTH
SCALE: 1/4" : 1'-0"

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9/16/2022

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
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SHEET TITLE:
INTERIOR ELEVATIONS

DATE: 12/15/2022

A-103
SHEET 3 OF 5

PERMITTING STAMP:

22STATIC LINE

DRAWINGS, SPECIFICATIONS AND THE DESIGN ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE PROJECT OWNER OR ANY OTHER PARTY FOR OTHER PROJECTS, ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT.

22STATIC LINE

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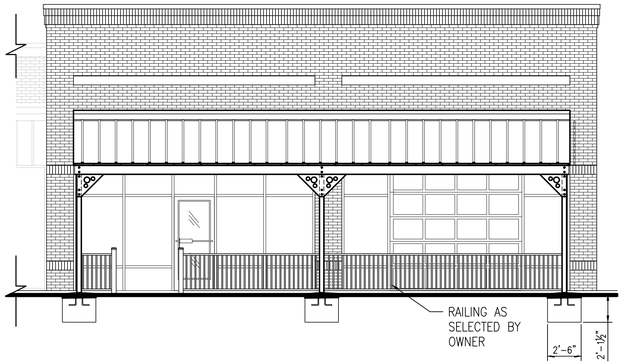
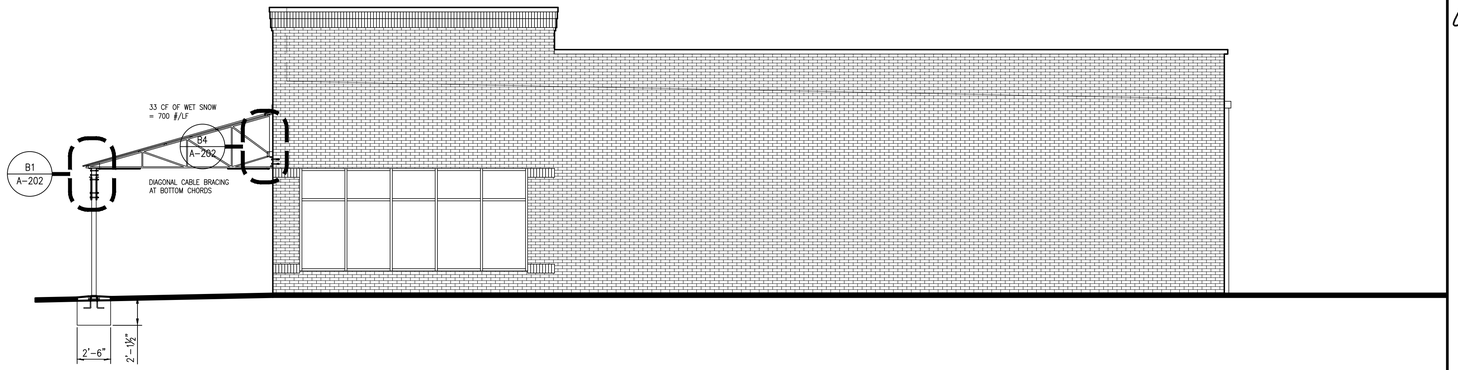
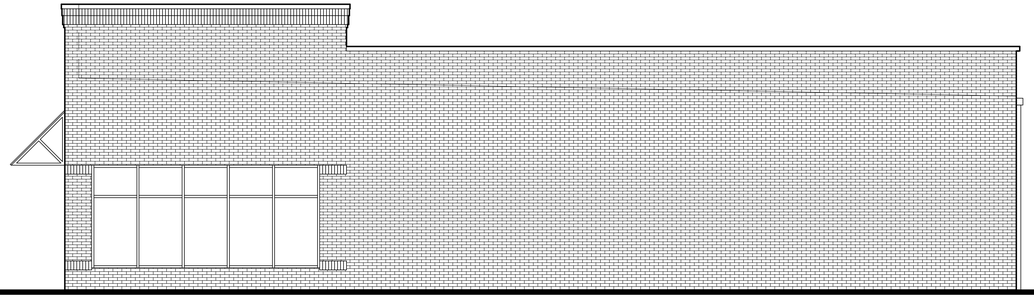


C1 WEST ELEVATION WITH CANOPY
SCALE: 3/16" = 1'-0"



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"

Designed to Build
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ANDREW W. PRIVETTE REGISTERED ARCHITECT 3877 STATE OF NORTH CAROLINA FAYETTEVILLE, NC 9/16/2022

STATIC LINE BREWERY
1671 BUFFALO LAKE RD
SANFORD, NC

MARK	DATE	DESCRIPTION	CHK

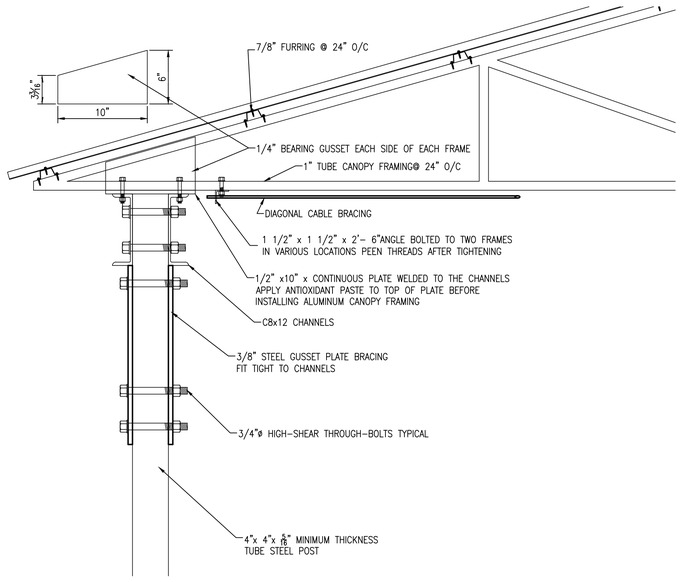
JOB CODE:	22STATIC LINE
DRAWN BY:	A. PRIVETTE
CHECKED BY:	A. PRIVETTE
COPYRIGHT:	DESIGNED TO BUILD

SHEET TITLE:
EXTERIOR ELEVATION FRONT

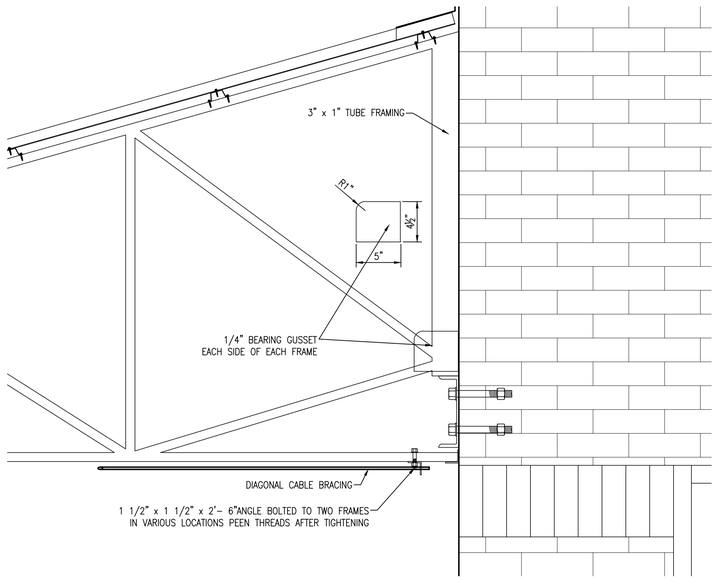
DATE: 12/15/2022

A-201
SHEET 5 OF 6

PERMITTING STAMP:



B1 CANOPY DETAIL
SCALE: 1-1/2" : 1'-0"



B4 CANOPY DETAIL
SCALE: 1-1/2" : 1'-0"

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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:
CANOPY DETAILS

DATE: 12/15/2022

A-202
SHEET 5 OF 5

PERMITTING STAMP:

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 A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	225/3	PANEL EX.A	15.4			2	500/3	BOILER	48		
3	|			13.6		4	|			48	
5	|				12.2	6	|				48
7	225/3	PANEL EX.B	20.4			8	20/1	SPACE	0		
9	|			20.9		10	20/1	SPACE		0	
11	|				19	12	20/1	SPACE			0
13	20/1	SPACE	0			14	20/1	SPACE	0		
15	20/1	SPACE		0		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	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		
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	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 A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	HALL RECEPTACLE	0.72			2	20/1	WH-1	2.4		
3	20/1	WP GFCI RTU RECEPTACLE		0.18		4	20/1	OFFICE RECEPTACLE		0.9	
5	20/1	BAR USB RECEPTACLE			0.72	6	20/1	MEN & WOMEN GFCI RECEPTACLE			0.36
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	12	20/1	BAR GFCI RECEPTACLE			0.54
13	|		4.49			14	20/1	COUNTER USB RECEPTACLE	0.72		
15	|			4.49		16	20/1	RIGHT SIDE TAP ROOM LIGHTING		0.401	
17	70/3	RTU-2			5.86	18	20/1	ROOFTOP WP GFCI RECEPTACLE			0.18
19	|		5.86			20	20/1	SPACE	0		
21	|			5.86		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	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		
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

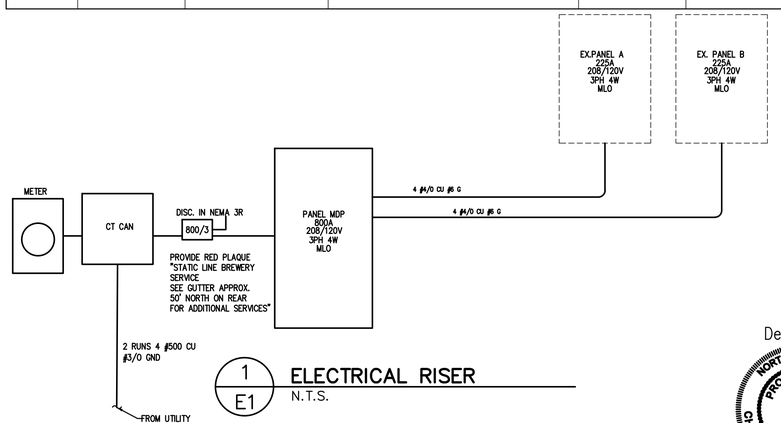
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	BLOWER	1.5			2	30/2	KEG WASHER	3.12		
3	20/1	BLOWER		1.5		4	|			3.12	
5	20/1	BLOWER			1.5	6	30/3	W.I.C. COND. UNIT			1.37
7	20/1	RECEPTACLE	0.18			8	|		1.37		
9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

SEE REVISED E-1 sheet attached

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 OR EQ.	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-L840-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



1 / E1 ELECTRICAL RISER
N.T.S.

Dec 13, 2022

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2255DD LMC

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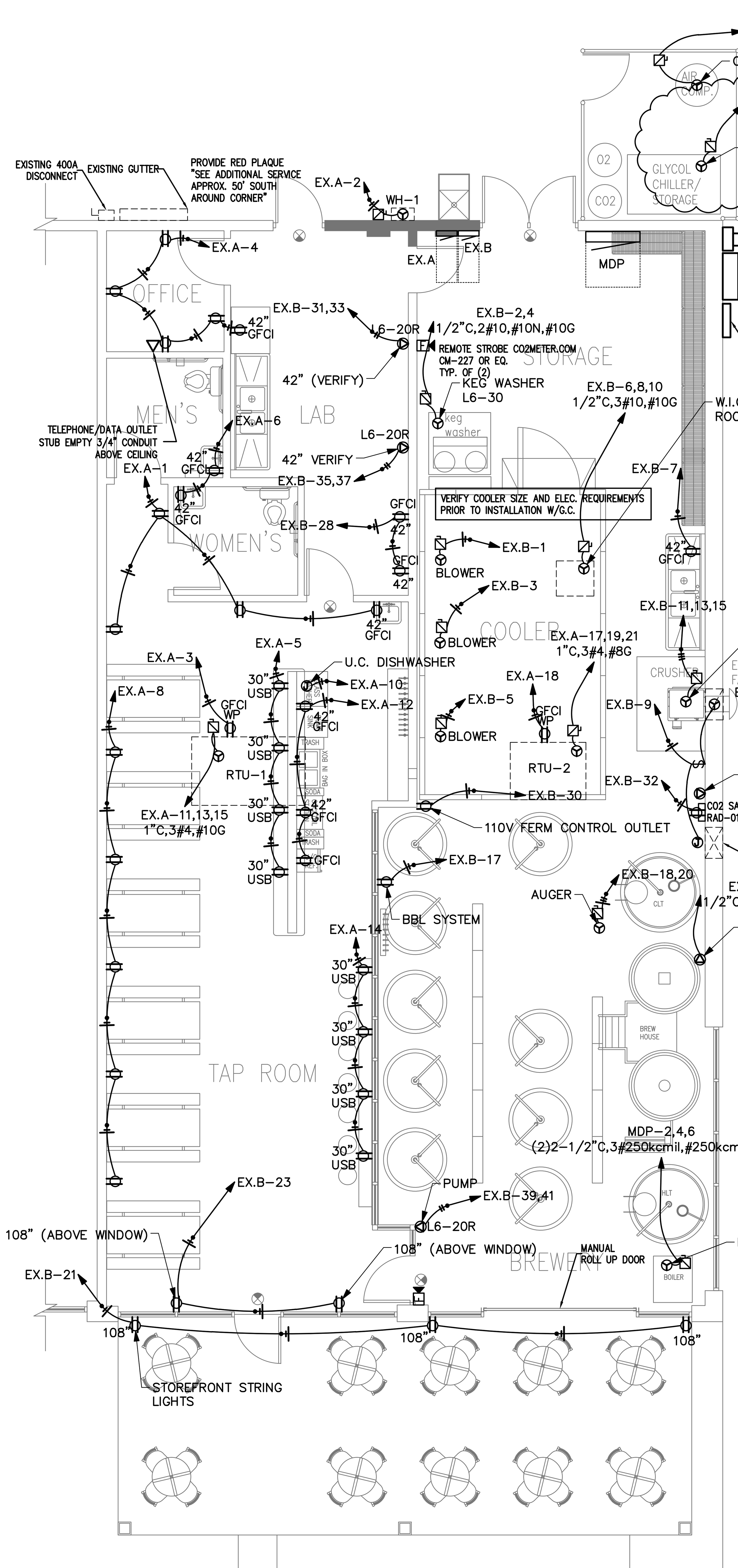
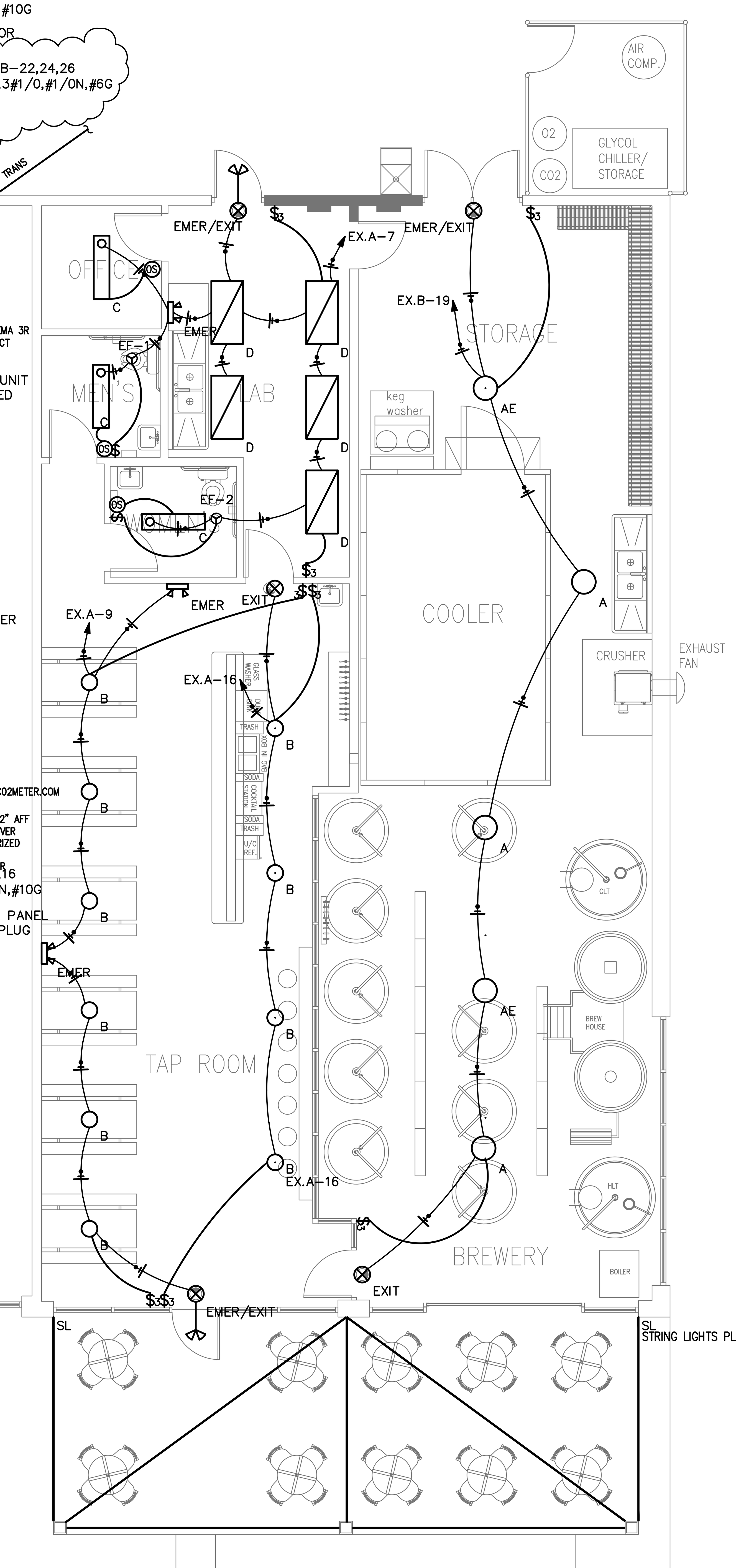


1 / E2 **POWER PLAN**
3/16"=1'-0"

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 BREWMASTER. COORDINATE ELECTRICAL REQUIREMENTS WITH MANUFACTURER.



2 / E2 **LIGHTING PLAN**
3/16"=1'-0"

(OS) BRYANT (HUBBELL) MSD1000W1 OR EQUAL WALL SWITCH OCCUPANCY SENSOR
DUAL (ULTRASONIC AND PASSIVE INFRARED) TECHNOLOGY
1,000 SQUARE FOOT COVERAGE
800W INCANDESCENT, 1000W FLUORESCENT AT 120V AC

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

EMT SHALL BE GALVANIZED STEEL TUBING, 1/2-INCH MINIMUM SIZE, EQUAL TO 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 I 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 WATERTIGHT WITH PVC JACKET WHERE USED IN DAMP, WET OR OUTSIDE AREAS, AND LIQUIDTIGHT OR WATERTIGHT 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 REPLACED AT THE REQUEST OF THE ENGINEER/ARCHITECT AT THE CONTRACTORS EXPENSE.

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

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

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

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

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

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

3 / E2 **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: [X] 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 — SEE FIXTURE SCHEDULE
- number of ballasts in fixture
- total wattage per fixture
- 2208/2432 total interior wattage specified vs. allowed (whole building or space by space)
- total exterior wattage specified vs. allowed

Additional Prescriptive Compliance
- [ ] 506.2.1 More Efficient HVAC Equipment
- [X] 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

Dec 13, 2022

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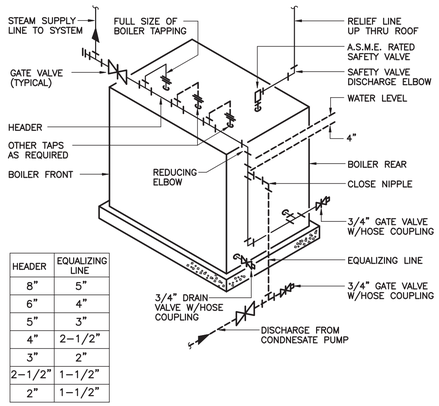
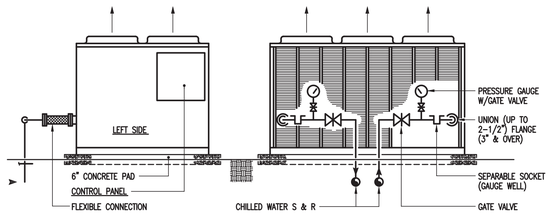
EACH CONTRACTOR IS REQUIRED TO INCLUDE ALL MINOR ITEMS, WHETHER OR NOT SHOWN ON PLANS, AS REQUIRED BY CODE AND FOR WORKING SYSTEMS, IN INITIAL COST OF WORK, AND AT NO ADDITIONAL COST TO THE OWNER

ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS BY THE OWNER OR CONTRACTOR MUST BE APPROVED BY THE ARCHITECT IN WRITING AND PRIOR TO CONSTRUCTION.



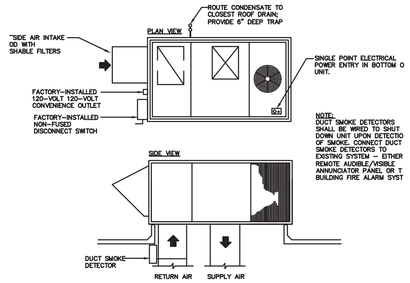
HEADER	EQUALIZING LINE
8"	5"
6"	4"
5"	3"
4"	2-1/2"
3"	2"
2-1/2"	1-1/2"
2"	1-1/2"

1/M1 LOW PRESSURE STEAM BOILER PIPING DETAIL
NTS



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

2/M1 AIR COOLED LIQUID CHILLER DETAIL
NTS



3/M1 ROOF TOP UNIT 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 T&B REPORT. FINAL PROJECT SIGNOFF WILL BE DENIED WITHOUT THIS REPORT

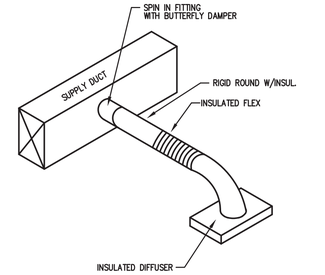
MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK WITH OTHER TRADES TO AVOID CONFLICTS.

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

ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

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

4/M1 HVAC NOTES
N.T.S.



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

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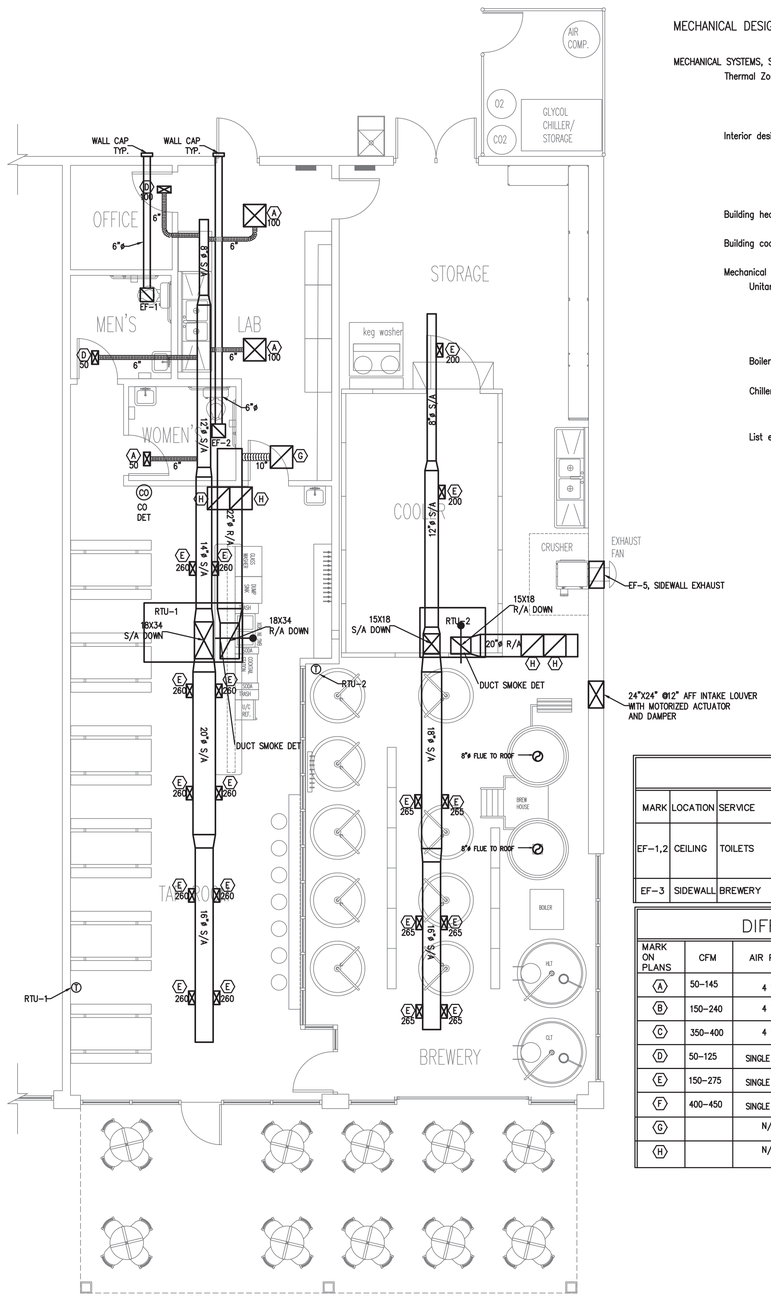

1 / M2 HVAC PLAN
3/16"=1'-0"

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

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: GROSS COOLING	CAPACITIES: SEER	CAPACITIES: HEATING BTU	CAPACITIES: HEATING LOW	REMARKS	REFRIG.	UNIT NET WEIGHT
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 SKW 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"ø TO WALL CAP
EF–3	SIDEWALL	BREWERY	1481	0.25"	.25HP	1750	120	1	DIRECT	GREENHECK SIDEWALL FAN SE1–12–432–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	12 X 12	SEE PLAN	PRICE SERIES 630 OFF WHITE, ALUM., FILTER RETURN
(H)		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) Vbz = RpPz + RaAz

	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**	
	TOTAL CFM REQUIRED						**686**	**140**
	TOTAL CFM FURNISHED						**686**	**140**
RTU-2	STORAGE	438	0	0	0	0.12	**53**	**0**
	BREWERY	674	0	0	0	0.12	**81**	**0**
	TOTAL CFM REQUIRED						**133**	**0**
	TOTAL CFM FURNISHED						**133**	**0**

Nov 04, 2022

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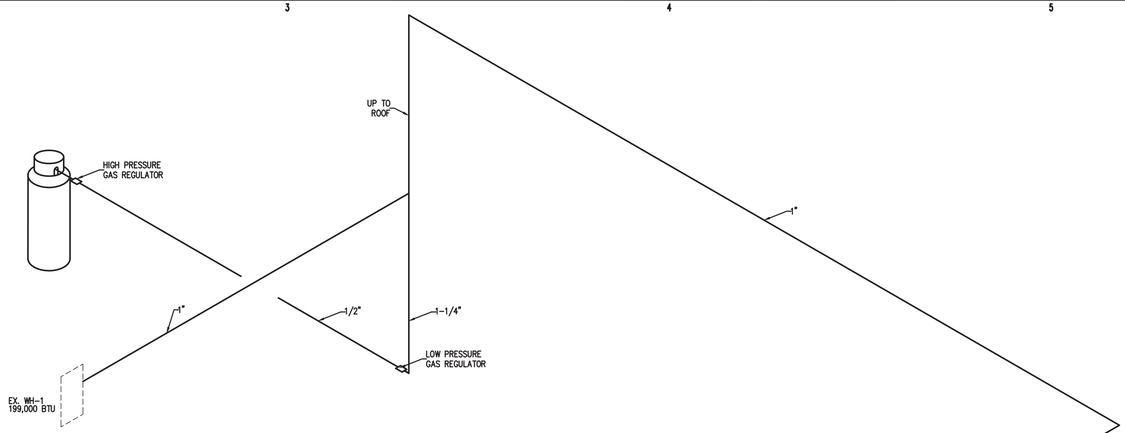


2 P1 GAS RISER DETAIL
N.T.S.

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)

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 DISINFECTED PRIOR TO PLACING IN SERVICE
PVC/PEX MAYBE SUBSTITUED FOR COPPER

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI

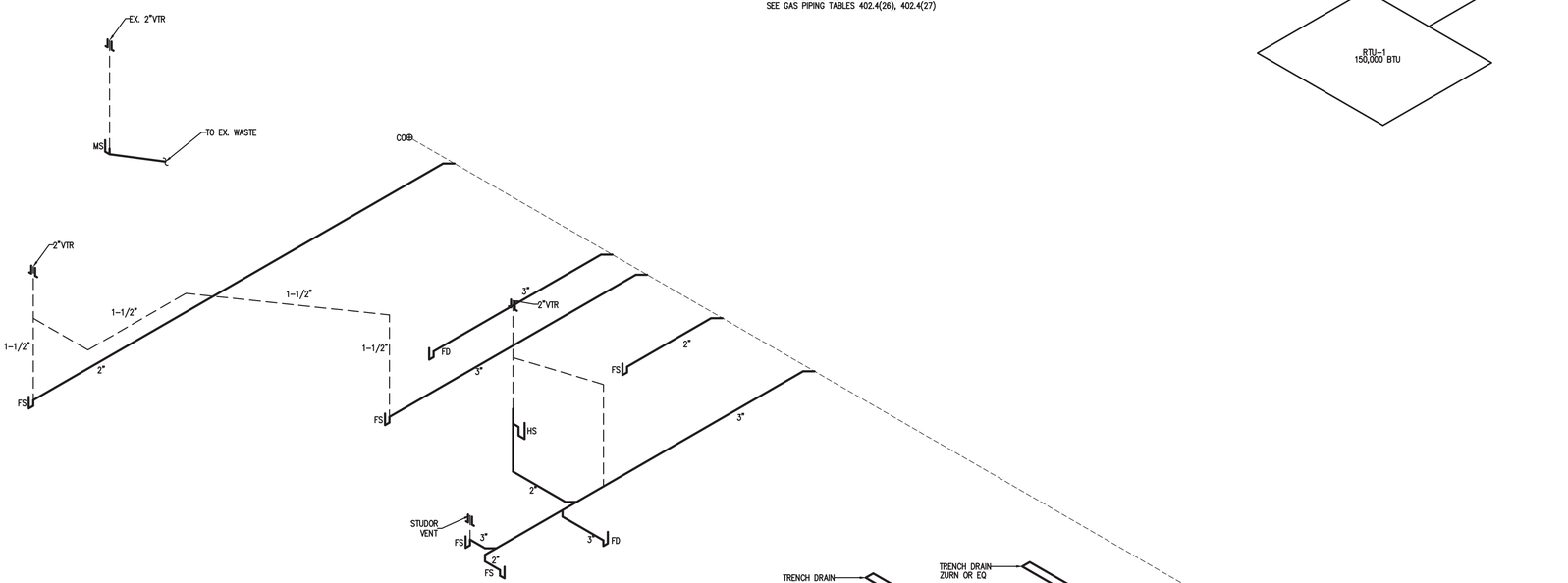
GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON SCREW-TYPE FITTINGS.

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.



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	BKHSD14101	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 (BKFW26G)	1/2" H.W./C.W.	2"	1-1/2"	
P-7	FIAT	MSB2424	MOP SINK	CHROME FAUCET, ADJUSTABLE BRACE AND PAIL 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							

Nov 04, 2022

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A Sensible Approach
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STATIC LINE BREWERY
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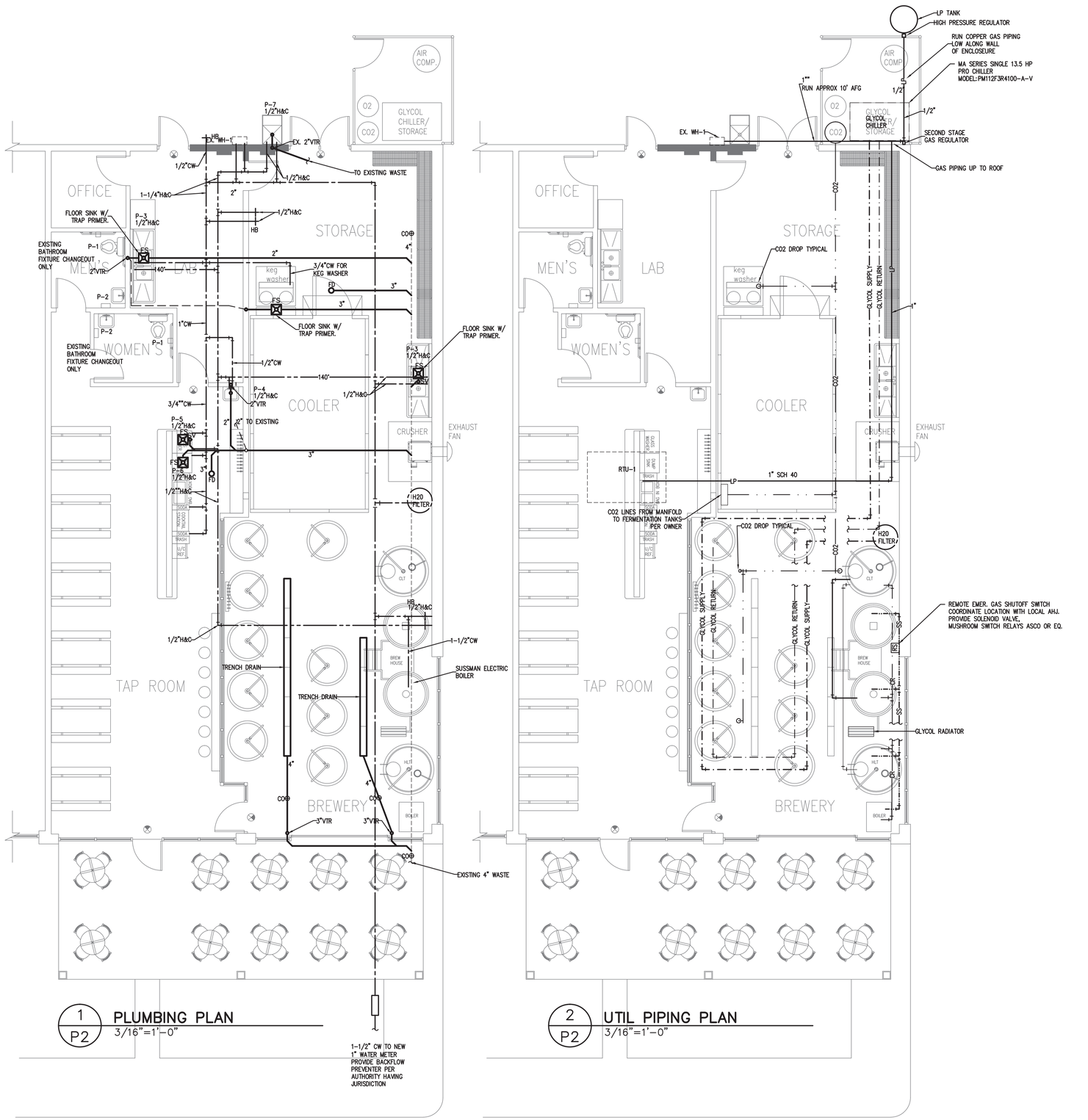

1 / P2 **PLUMBING PLAN**
3/16"=1'-0"

2 / P2 **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
WCO	WALL CLEANOUT
	FLOOR CLEANOUT
	GATE VALVE
	COLD WATER
	HOT WATER
	VENT PIPING
	WASTE PIPING
RD	ROOF DRAIN PIPING

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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 A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	225/3	PANEL EX.A	15.4			2	500/3	BOILER	48		
3	|			13.6		4	|			48	
5	|				12.2	6	|				48
7	225/3	PANEL EX.B	20.4			8	20/1	SPACE	0		
9	|			20.9		10	20/1	SPACE		0	
11	|				19	12	20/1	SPACE			0
13	20/1	SPACE	0			14	20/1	SPACE	0		
15	20/1	SPACE		0		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	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		
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	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 A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	HALL RECEPTACLE	0.72			2	20/1	WH-1	2.4		
3	20/1	WP GFCI RTU RECEPTACLE		0.18		4	20/1	OFFICE RECEPTACLE		0.9	
5	20/1	BAR USB RECEPTACLE			0.72	6	20/1	MEN & WOMEN GFCI RECEPTACLE			0.36
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	12	20/1	BAR GFCI RECEPTACLE			0.54
13	|		4.49			14	20/1	COUNTER USB RECEPTACLE	0.72		
15	|			4.49		16	20/1	RIGHT SIDE TAP ROOM LIGHTING		0.401	
17	70/3	RTU-2			5.86	18	20/1	ROOFTOP WP GFCI RECEPTACLE			0.18
19	|		5.86			20	20/1	SPACE	0		
21	|			5.86		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	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		
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%

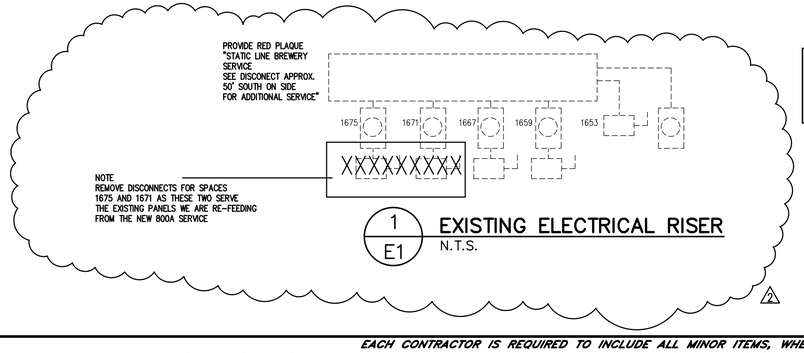
AIC 22,000
MAIN BKR MLO
LUGS STANDARD

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

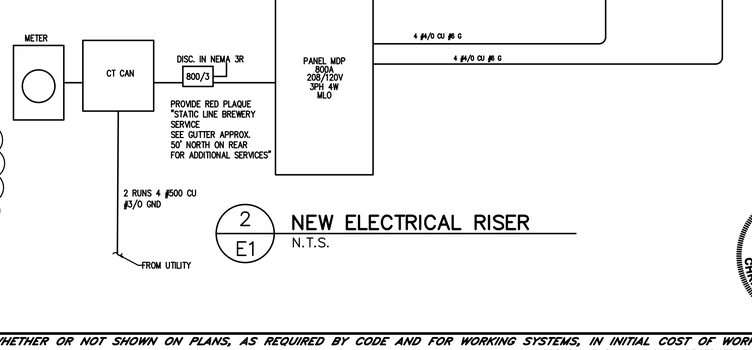
	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	0.644	0.806	(125%)	RECEPTACLES	3.3	3.3	(50%>10)
LARGEST MOTOR	11.6	2.91	(25%)	CONTINUOUS	20.3	25.3	(125%)
MOTORS	15.6	15.6	(100%)	NONCONTINUOUS	6.24	6.24	(100%)
				COOLING	14.3	14.3	(100%)
				TOTAL LOAD		68.5	
				BALANCED 3-PHASE LOAD		190 A	

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 OR EQ.	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-L840-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



1 E1 EXISTING ELECTRICAL RISER
N.T.S.



2 E1 NEW ELECTRICAL RISER
N.T.S.

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Jan 31, 2023

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