BUILDING PLANS

FOOD LION DISTRIBUTION EMPLOYEE SHELTER

301 HIGHWAY DUNN NORTH CAROLINA

PREPARED FOR

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SHEET INDEX

000....COVER SHEET

001.... APPENDIX B / BUILDING CODE SUMMARY

002.... FLOOR PLAN 003.... ELEVATIONS 004... ELECTRICAL

2012 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2) Name of Project: THE DIRT BAG BREWERY GRILL	DDE SUMMARY ERCIAL PROJECTS WELLINGS AND TOWNHOUSES) on the building plans sheet 1 or 2) Separated Use (508.3) The required type of construction for the building shall be determined, shall apply to the entire construction, so determined, shall apply to the entire building. Separated Use (508.4) - See below for area calculations For each story, the area of the occupancy shall be such that the each use divided by the allowable floor area for each use shall							of the actual floo	e of	Location of doors with delayed egress locks and the amount of delay (1008.1.9.7) Location of doors with electromagnetic egress locks (1008.1.9.8) Location of doors equipped with hold-open devices The final state of the	ERGY REQUIREMENTS: following data shall be considered minim be provided. Each Designer shall furnish rformance method, state the annual energ osed design. Climate Zone: X 3 4				
Address: CORPORATION DRIVE Zip Code Proposed Use: BREWERY Owner/Authorized Agent: GREG BAGLEY Phone # (919) 609 - 0300 E-Mail GDE Owned By: City/County Private State Code Enforcement Jurisdiction: City County State FAYETTEVILLE, NORTH CAROLINA LEAD DESIGN PROFESSIONAL: DESIGNER FIRM NAME LICENSE # TELEPHONE # E Architectural TELEPHONE # E	B.GREG@GMAIL.COM	Allowable Area of Allowable Ar	of Occupancy A	+ (I TABLI AR	B) (C) E 503 ⁵ AREA FOI FRONTAG INCREASE	Occupance OR AI GE SP: E ¹ IN	(D) REA FOR RINKLER CREASE ² 0	(E) ALLOWABLE	(F) MAXIMUM BUILDING AREA ⁴ 10500	Note any code exceptions or table notes that may have been utilized regarding the items above ACCESSIBLE DWELLING UNITS (SECTION 1107) Total Accessible Accessible Type A Type B Type B Total Units Units Units Units Units Units Units Units Accessible Units	Method of Compliance: Perscriptive (Energy Orange) Performance (Energy Orange) Prescriptive (ASHRA) Performance				
Civil C. Gregory Bagley, Engineer Greg Bagley 12276 (919)609-0300 Gr Greg Electrical C. Gregory Bagley, Engineer Greg Bagley 12276 (919)609-0300 Gr Greg Fire Alarm (919)609-0300 Gr Greg Bagley 12276 (919)609-0300 Gr Greg Mechanical C. Gregory Bagley, Engineer Greg Bagley 12276 (919)609-0300 Gr Greg Sprinkler-Standpipe (919)609-0300 Gr Greg Structural C. Gregory Bagley, Engineer Greg Bagley 12276 (919)609-0300 Gr Greg Structural Greg Bagley 12276 (919)609-0300 Gr Greg Structural Greg Bagley 12276 (919)609-0300 Gr Gr Greg Bagley 12276 (919)609-0300 Gr Gr Gr Greg Bagley 12276 (919)609-0300 Gr Gr <t< td=""><td>DB.GREG@GMAIL.COM DB.GREG@GMAIL.COM DB.GREG@GMAIL.COM DB.GREG@GMAIL.COM</td><td colspan="6">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 =</td><td></td><td></td><td>ACCESSIBLE PARKING (SECTION 1106) LOT OR PARKING TOTAL # OF PARKING SPACES # OF ACCESSIBLE SPACES PROVIDED TOTAL # AREA REQUIRED PROVIDED REGULAR WITH VAN SPACES WITH ACCESSIBLE PROVIDED Main Parking 8 8 1 1 1 1 TOTAL STRUCTURAL DESIGN</td><td colspan="5">U-Value of total assembly R-Value of insulation: Skylights in each assembly U-Value of skyl total square footage of sk</td></t<>	DB.GREG@GMAIL.COM DB.GREG@GMAIL.COM DB.GREG@GMAIL.COM DB.GREG@GMAIL.COM	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 =								ACCESSIBLE PARKING (SECTION 1106) LOT OR PARKING TOTAL # OF PARKING SPACES # OF ACCESSIBLE SPACES PROVIDED TOTAL # AREA REQUIRED PROVIDED REGULAR WITH VAN SPACES WITH ACCESSIBLE PROVIDED Main Parking 8 8 1 1 1 1 TOTAL STRUCTURAL DESIGN	U-Value of total assembly R-Value of insulation: Skylights in each assembly U-Value of skyl total square footage of sk				
BASIC BUILDING DATA	V-A V-B 13D	Type of Construction Building Height in Feet Building Height in Stories		WABLE LE 503)	INCREASE FOR S /-B Feet = H + 20' = Stories + 1 =	816 SPRINKLER = 32'	1 1		CODE	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Walls below grade (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Floors over unconditioned space (e Description of assembly: U-Value of total assembly: R-Value of insulation:				
FLOOR EXISTING (SQ FT) NEW (SQ FT) SUB-TO	OTAL		FIRE	PROTE	CTION REQUIR	REMENT	ΓS	NR = Not Red	quired	Ground Snow Load: 10 psf Wind Load: Basic Wind Speed 120 mph (ASCE-7)	Floors slab on grade Description of assembly:				
5 th Floor 4 th Floor 3 rd Floor 2 nd Floor Mezzanine		BUILDING ELEMENT Structural Frame.	FIRE SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED	DETAIL# AND SHEET#	DESIGN # FOR RATED ASSEMBLY	DESIGN #FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS	Exposure Category	U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirentslab heated:				
1 st Floor 500 50 Basement	0	including columns, girders, trusses	10	0		0002	NR			Provide the following Seismic Design Parameters: Occupancy Category (Table 1604.5) X I II III IV					
TOTAL 50	00	Bearing Walls Exterior		0		0002 0002	NR NR			Spectral Response Acceleration S_8 2.7 %g S_1 3.7 %g Site Classification (Table 1613.5.2) \square A \square B \square C \square D \square E \square F					
ALLOWABLE AREA		North		0		0002	NR			Data Source: Field Test Presumptive Historical Data Basic structural system (check one)					
Occupancy: Assembly A-1 A-2 A-3 A-4 A-5		East West		0		0002 0002	NR NR			Bearing Wall Dual w/Special Moment Frame Building Frame Dual w/Intermediate R/C or Special Steel					
Business Educational		South Interior		0		0002	NR				E' CEDEDAT				
Factory F-1 Moderate F-2 Low	DM.	Nonbearing Walls and Partitions		0		0002	NR			Analysis Procedure:	Fire SEPERAT SHOWN ON T				
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HI Institutional I-1 I-2 I-3 I-4 I-3 Condition I I I I I I I I I I I I I I I I I I I	PM	Exterior walls		0		0002	NR			Architectural, Mechanical, Components anchored? X Yes No	BETWEEN F-2				
I-3 Condition		North East		0		0002 0002	NR NR			LATERAL DESIGN CONTROL: Earthquake Wind X					
Residential R-1 R-2 R-3 R-4 Storage S-1 Moderate S-2 Low High-piled		West		0		0002	NR NR			SOIL BEARING CAPACITIES: Field Test (provide copy of test report) psf					
Parking Garage Open Enclosed Repair Garage Utility and Miscellaneous		South Interior walls and partitions		U		0002	IVIX			Presumptive Bearing capacity 2000 psf					
Accessory Occupancies:		Floor Construction Including supporting beams)		0002	NR			Pile size, type, and capacity					
Assembly A-1 A-2 A-3 A-4 A-5 Business		and joists		U		0002	INIX			SPECIAL INSPECTIONS REQUIRED: Yes X No					
Educational F-1 Moderate F-2 Low		Roof Construction Including supporting beams		0		0002	NR								
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 H	PM	and joists Shaft Enclosures - Exit								PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)					
Institutional I-1 I-2 I-3 I-4 I-3 Condition I I 2 I 3 I 4 I 5 Mercantile I		Shaft Enclosures - Other													
Residential R-1 R-2 R-3 R-4 Storage S-1 Moderate S-2 Low High-piled		Corridor Separation								USE WATERCLOSETS URINALS LAVATORIES SHOWERS/ DRINKING FOUNTAINS MALE FEMALE MALE FEMALE TUBS REGULAR ACCESSIBLE					
Parking Garage Open Enclosed Repair Garage		Occupancy Separation Party/Fire Wall Separation		0	0)	NR			SPACE EXISTING NEW 1 UNISEX 0 1 UNISEX 0					
Utility and Miscellaneous Incidental Uses (Table 508.2.5):		Smoke Barrier Separation Tenant Separation								REQUIRED 1 1					
☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input ☐ Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower		Incidental Use Separation * Indicate section number pe	ermitting reductio	1											
Refrigerant machine room	į	r								SPECIAL APPROVALS Special common (1) and funishistics. Department of Insurance (OSC DDI DIME (OSC etc. describe below)					
☐ Hydrogen cutoff rooms, not classified as Group H☐ Incinerator rooms			LIF	SAFET	Y SYSTEM REQ	QUIREM	IENTS			Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)					
Paint shops, not classified as Group H, located in occupancies other than Group F		Emergency Lighting:	ĭ N	о 🔲 Ү	es										
 ☐ Laboratories and vocational shops, not classified as Group H. located in a Group E or I-2 occ ☐ Laundry rooms over 100 square feet 	cupancy	Exit Signs: Fire Alarm:	X N	o	es es										
☐ Group I-3 cells equipped with padded surfaces ☐ Group I-2 waste and linen collection rooms		Smoke Detection Syste Panic Hardware:	ms: X N	o	es Partial es										
☐ Waste and linen collection rooms over 100 square feet	į														
Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallor capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted	power supplies			SAFET	Y PLAN REQUII	REMEN	TS								
Rooms containing fire pumps	pumps Life Safety Plan Sheet #: CODE SHEET														
☐ Group I-2 storage rooms over 100 square feet ☐ Group I-2 commercial kitchens		☐ Fire and/or smoke rated wall locations (Chapter 7) ☐ Assumed and real property line locations													
☐ Group I-2 laundries equal to or less than 100 square feet ☐ Group I-2 rooms or spaces that contain fuel-fired heating equipment		Exterior wall openingExisting structures				property	lines (705.8	8)		Exterior wall opening area with respect to distance to assumed property lines (705.8)					
Special Uses:	411 412	Occupancy types for	r each area as it	_		lculation	(Table 100	4.1.1)		Existing structures within 30' of the proposed building					
413	424	Occupant loads forExit access travel d								 Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1) Occupant loads for each area 					
Special Provisions: 509.2 509.3 509.4 509.5 509.6 509.7 50	9.8	Common path of traDead end lengths (1)		014.3 &	1028.8)					Exit access travel distances (1016) Common path of travel distances (1014.3 & 1028.8)					
Mixed Occupancy: ☐ No ☐ Yes Separation: ☐ Hr. Exception: ☐ Incidental Use Separation (508.2.5)		Clear exit widths fo	r each exit door						4 4	Dead end lengths (1018.4)					
This separation is not exempt as a Non-Separated Use (see exceptions).		Maximum calculate Actual occupant loa			each exit door car	n accomm	10date base	d on egress wid	th (1005.1)	 ☐ Clear exit widths for each exit door ☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1) ☒ Actual occupant load for each exit door 					
	CUPANC	Y LOADS													
A-2 GATHERING UNCONCEI AREA TABLES AN		15 NET 500	D/15 = 33 OC	.											

ENERGY SUMMARY

QUIREMENTS: ata shall be considered minimum and any special attribute required to meet the energy code shall d. Each Designer shall furnish the required portions of the project information for the plan data sheet. method, state the annual energy cost for the standard reference design vs annual energy cost for the

CODE SHEET

d of Compliance:

> Prescriptive (Energy Code) Performance (Energy Code) Prescriptive (ASHRAE 90.1) Performance (ASHRAE 90.1)

eiling Assembly (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation:

U-Value of skylight: total square footage of skylights in each assembly:

4' CONCRETE WALLS ON TWO SIDES U-Value of total assembly: R-Value of insulation: Openings (windows or doors with glazing) U-Value of assembly: Solar heat gain coefficient:

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

over unconditioned space (each assembly)

Description of assembly: U-Value of total assembly: R-Value of insulation:

U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: slab heated:

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone winter dry bulb: 20 F summer dry bulb: 95 F

Interior design conditions winter dry bulb: __70 F summer dry bulb: 74 F

Building heating load:

relative humidity: 63%

Building cooling load: 24000 **Mechanical Spacing Conditioning System**

> Unitary description of unit: DUCTLESS SYSTEM heating efficiency: 14 SEER cooling efficiency: 14 SEER size category of unit: 24000 Roiler 24000 Boiler Size category. If oversized, state reason.:

Size category. If dversized, state reason.: List equipment efficiencies: 63%

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Chiller

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

Lighting schedule (each fixture type) T-8 lamp type required in fixture 4 number of lamps in fixture F96T8 ballast type used in the fixture number of ballasts in fixture 40-60total wattage per fixture

.48 vs. .40 total interior wattage specified vs. allowed (whole building or space by space) 250total exterior wattage specified vs. allowed

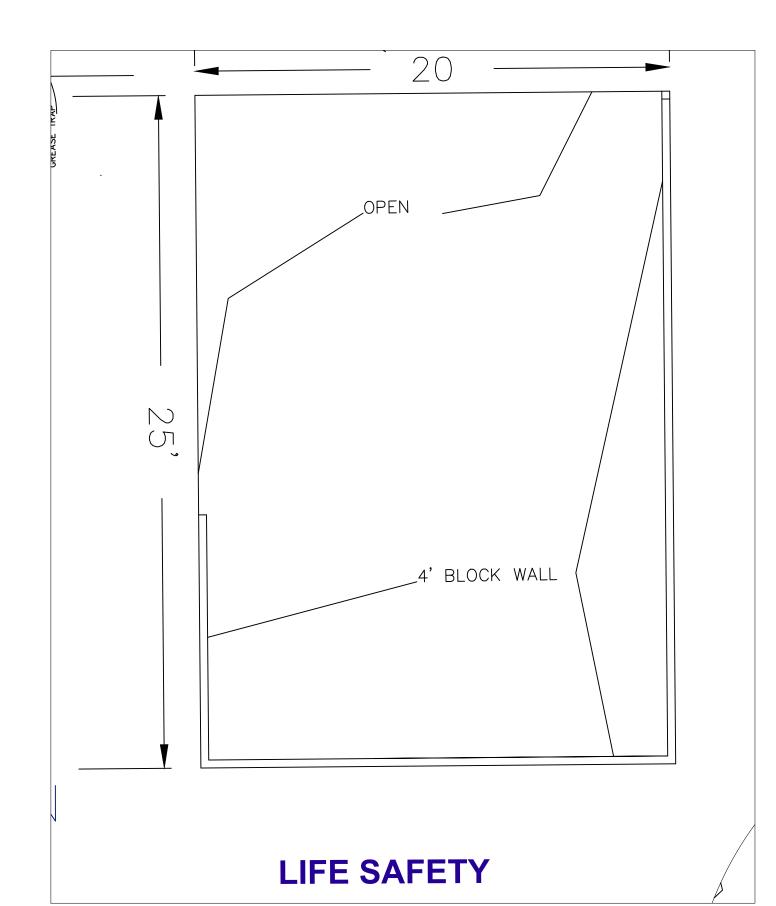
Additional Prescriptive Compliance

506.2.1 More Efficient Mechanical 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

Fire SEPERATION IS 1 HR AS SHOWN ON TABLE 508.4 OF CODE

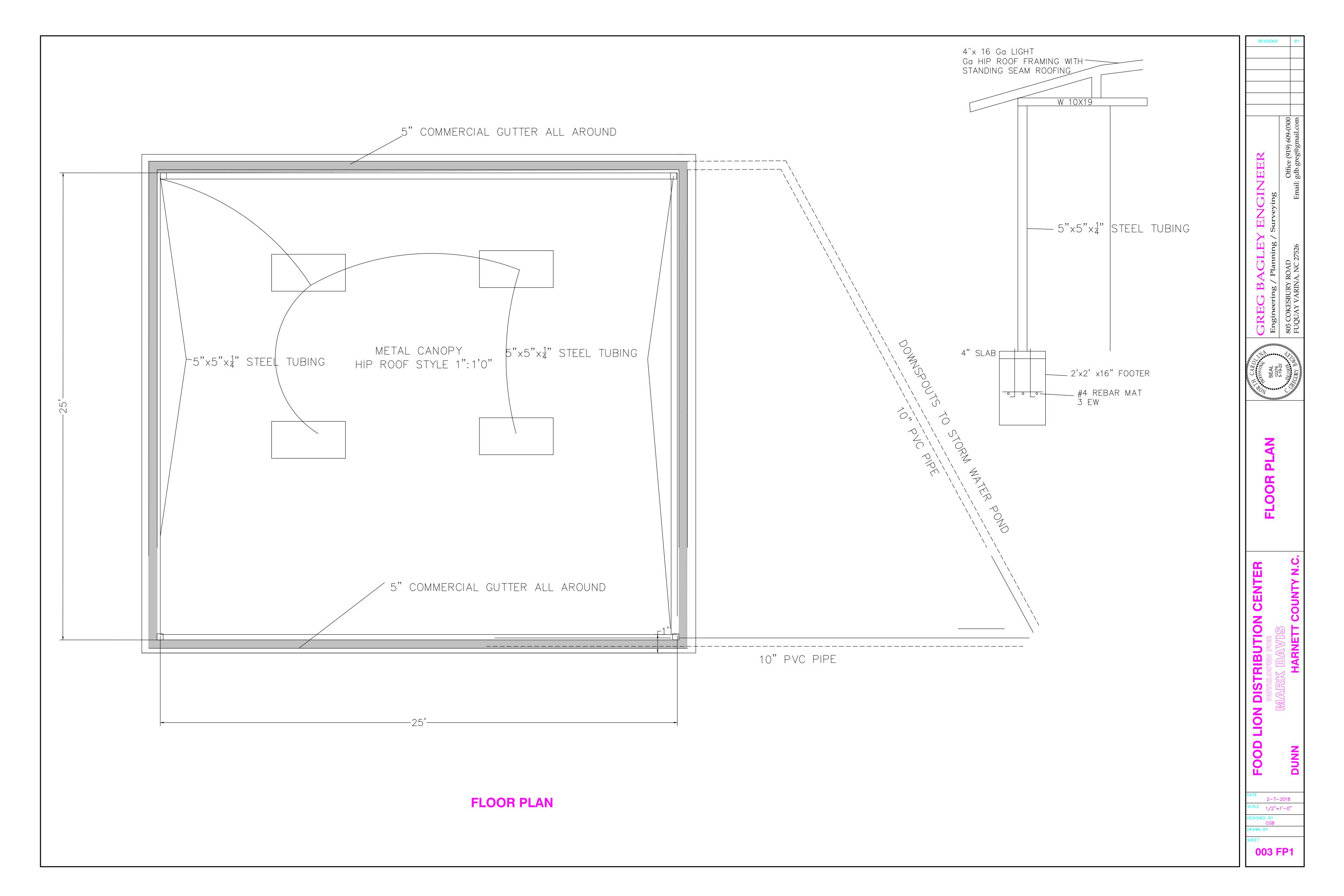
BETWEEN F-2 AND A-2

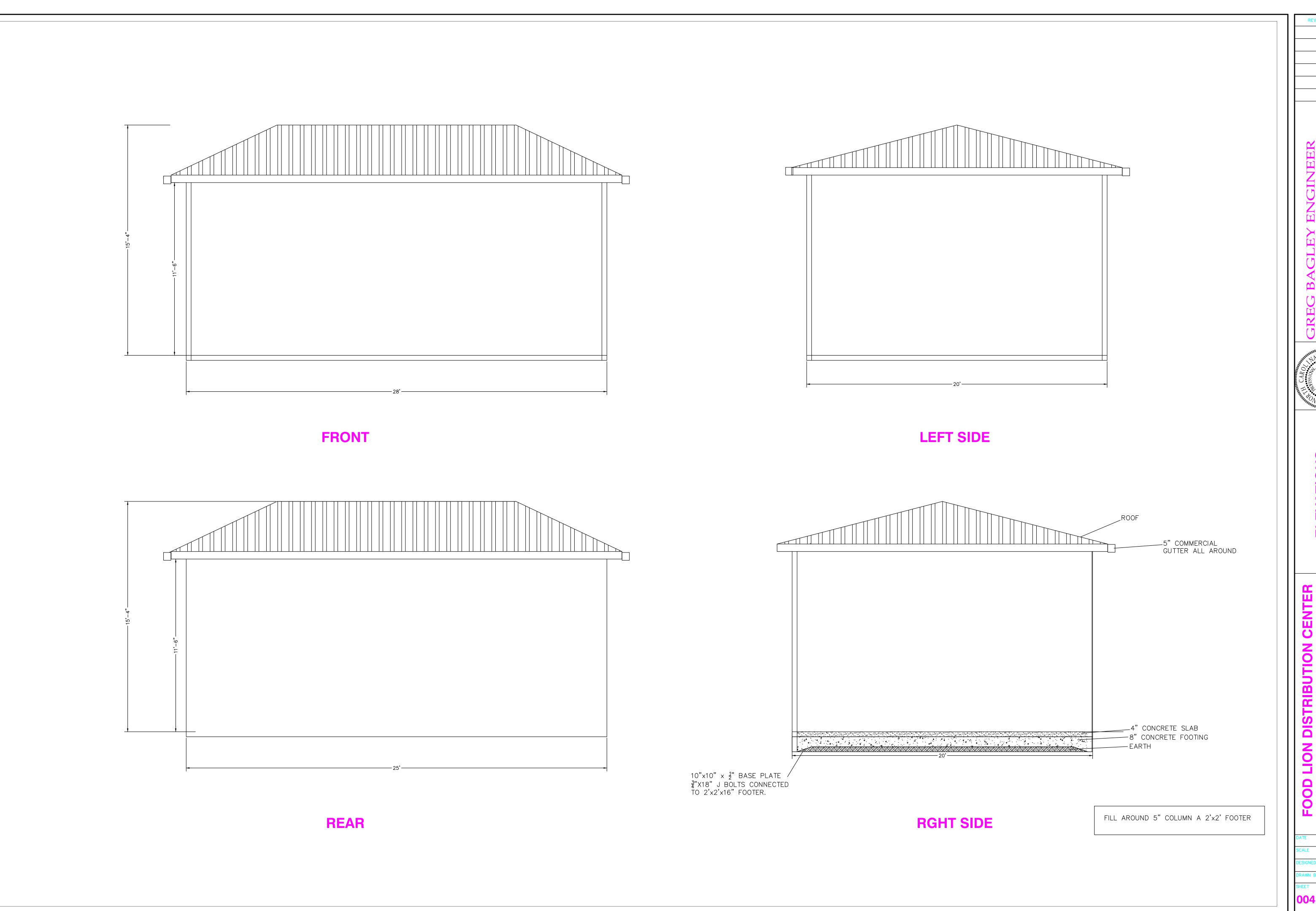


OOD LION DISTRIBUTION

ALE 3/8"=1'-0"

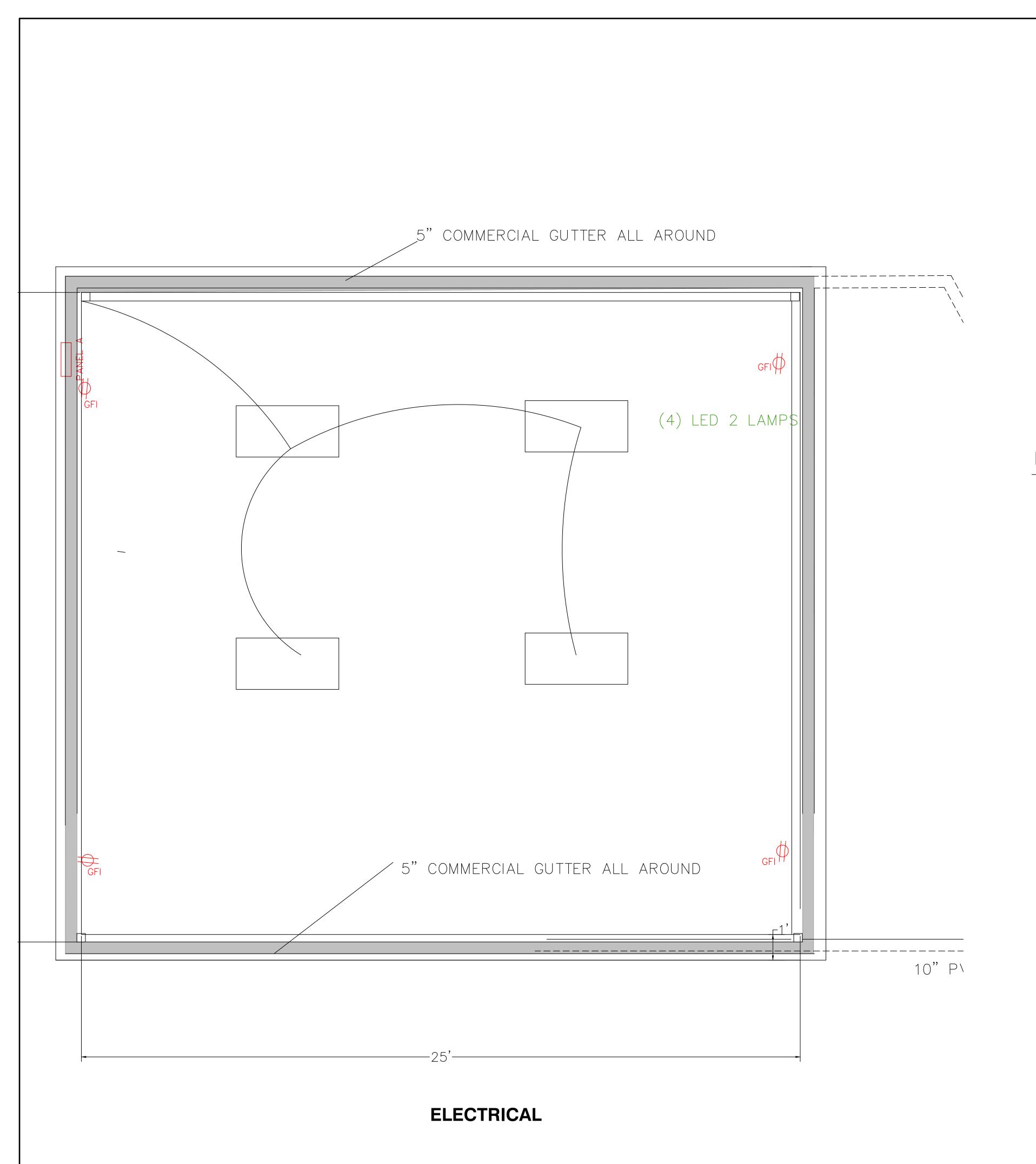
0001 FP





3/8"=1'-0"

004 ELEV





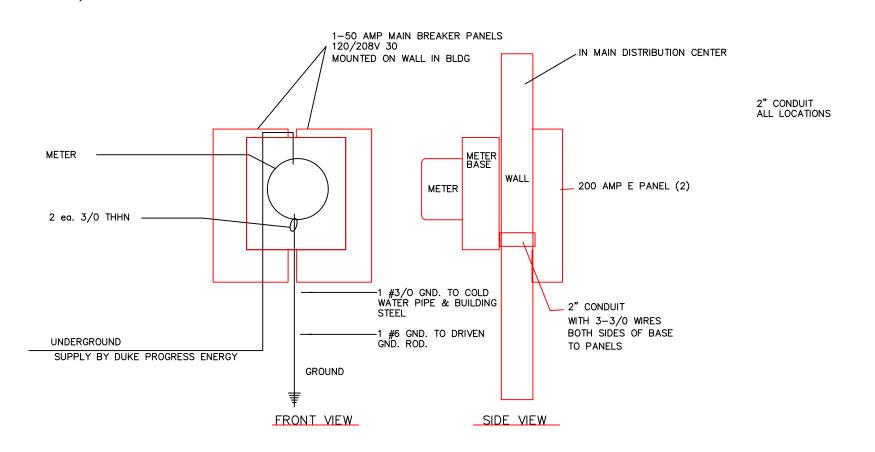
	100	A۱	IP SERVICE PA	NEL	_ A	١									
	VOL	TAC	GE 208/120V 3	S PI	HA:	SE	: 4	4 V	VIRE						
	DEVICE	-	BRANCH CIRCUIT									BRANCH CIRCUIT	Dŧ	EVICE	
SIZE	AMPS TRIP	POLES	DESCRIPTION	CKT	PH A	PH B	PH C	PH A	PH B	PH C	CKT	DESCRIPTION	POLES	AMPS TRIP	SIZE
12	20	1	RECEPT	1		10		10			2	RECPT.	1	20	12
12	20	1	RECEPT	3			10	12			4	RECPT. BATH GFI	1	20	12
12	20	1	LIGHTING	5		10				10	6		1	20	12
12	20	2	LIGHTING	7			15		15		8		2	20	12
12	20	2		9	15					15			2	40 20	8
12	20	1	LIGHTING BATH	11		7		7			12	BATH FAN	1	20	12
12	20 20	1	EXHAUST FAN/VENT	13	8			15			14	WATER HTR.	2	30	10
12		1		15	7					7	16		1	20	12
8	40	1	HVAC	17			8		35		18	HVAC	2	50	8
8	40	1	COOLER		35					35		FREEZER	2	40	8
															$ldsymbol{ld}}}}}}}} $
			TOTAL		30	27	33	44	50	32					

NOTE: ELECTRICAL CONTRACTOR TO PROVIDE AIC RATING PER 2014 NEC

	L	OAD CALCS.	LIGHTING LOAD CALCS.							
LOAD	CONN (KVA)	DEMAND FACTOR	DEMAND LOAD	AREA TABLE 5.5.2	MIN WATTS	SQ FT	MAX ALLOWED	PROVIDED		
LIGHTING	4.1	125% ****		DFFICE ENCLOSED	1.11	620	668	600		
RECEPT.	8.4	1ST 10 KV - 100% REM -50%	8.4	KITCHEN	1.59	1780	2830	2500		
HVAC	38.5	100%	38.5	EXTERIOR	N/A	N/A	1300	1000		
SIGN	1.2	125% ****	1.5	1						
WH	25	125%	31.25							

ELECTRICAL NOTES

- 1. ALL RECEPTACLES TO COMPLY WITH NEC 406.14
- 2. AVAILABLE FAULT CURRENT AT PANEL A IS 9,623 A



NO NM CABLE ABOVE CEILING- CONDUIT ONLY **ELECTRICAL DIAGRAM**



007 ELEC