roposed Use:	Rock of Salvation Ch 36 Line Rd Cameron Church (Assembly A-	n NC 3)			3-42-1124	Zip Code 28326	
owner or Authorized Agent: owned By: code Enforcement Jurisdiction	<u>James W. Bro</u> n:	OWN ☐ City/County ☐ City ☐ City		(910) 391-808 □ Private ☑ County	B-Mail Harnett	bishopjwbrown@gmail.com ☐ State ☐ State	
PROJECT SUMMARY:	-	_ Oily				_ = 0.00	
Building Description: Scope of Work:			New Construction - New Construction		/		
Code Compliance Summary: Alternative Means of Complian	nce Request:		NCDOI APPENDIX NONE	"B"			
EAD DECION DROFFCCION	IAI.						
LEAD DESIGN PROFESSION DESIGNER	NAL: FIRM	N.F	AME	LICENSE #	TELEPHONE #	E-MAIL	
Architectural Civil Electrical	N/A	N	/A	N/A			
Fire Alarm Plumbing							
Mechanical Sprinkler-Standpipe	N/A	N	/A	N/A			
Structural : INTERIOR WALLS							
Retaining Walls >5' High Building		TIMOTHY PE	EPPERS JR	N/A	(910) 644-4587	tpeppers@pepdc.com	
BUILDING CODE:	2018 North Car						
	☐ 2009 North Cal	rolina State Buildin					
	□ 2009 Chapter 3 □ 2015 North Car						
□ New Building:	✓ New Building□ Addition		□ Shell Buildi □ Alteration to	•	☐ First Time Interior Co	mpletion	
□ Existing Building:	□ Renovation		□ Interior Cor	mpletion	☐ Tenant Alteration		
Constructed: (data)	☐ Reconstruction☐ Change of UseN/A		□ Repair		☐ Alteration to Shell☐ Change of Occupanc	у	
Constructed: (date) Note: Zoning Review is Requi		or Occupancy					
Original Use/Occupancy (Ch. 3 Current Use/Occupancy (Ch. 3	3): 3):	N/A N/A					
Proposed Use/Occupancy (Ch	•	Religious Ass	sembly A-3				
ASIC BUILDING DATA: onstruction Type:	(THIS SECTION F	REQUIRED FOR A	LL PROJECTS)	□ III-A	□ IV	□ V-A	
check all that apply)	_ □ I-B		□ II-B	□ III-A	□ IV	□ V-A	
prinklers: tandpipes:	✓ No □ Partial ✓ No □ Yes	☐ Yes Class:	□ NFPA 13		Wet □ Dry	3D	
• •	□ No ☑ Yes (AF (feet) <u>16</u>	PPENDIX D) 3500 sqft	Flood Hazard Are		No ☐ Yes	N/A	
ross Building Area (Sq. Ft.): LOOR EXISTING	 G (SQ FT)	NEW (UPFIT) (SQ	FT)	Renovated are		SUB-TOTAL	
st Floor	NONE	3500		NON	E	NONE	
	NONE	NONE		NON	Ξ	NONE	
	NONE	3500	0	NON	E	NONE	
REA of Project Tenant / Altera REA of New Construction:	3500		·				
CCUPANCY INFORMATION	: Retail Tennar	nt Space					
Occupancy: Assembly	□ A-1	□ A-2	☑ A-3 □ A-4	□ A-5			
Business Educational Factory	□ □ □ F-1 Mo	oderate	□ F-2 Low				
Hazardous Institutional	□ H-1 De		☐ H-2 Deflagerate ☐ I-2	☐ H-3 Cor ☐ I-3	nbust □ H-4 Healt	h 🗆 H-5 HPM	
Mercantile	I-3 Condition	□ 1	□ 2 □ 3	□ 4	□ 5		
Residential Storage	□ R-1 □ S-1 Mo	□ R-2 loderate	□ R-3 □ R-4 □ S-2		☐ High-piled		
Utility and Miscellaneous		ng Garage	□ Open □ Encl	osed	□ Repair Garage		
Accessory Occupancies: NO	NE □ A-1	□ A-2	□ A-3 □ A-4	□ A-5			
Business Educational							
Factory Hazardous Institutional	□ F-1 Mo □ H-1 De □ I-1		☐ F-2 Low ☐ H-2 Deflagerate ☐ I-2	□ H-3 Cor □ I-3	nbust □ H-4 Healt	h 🗆 H-5 HPM	
Mercantile	I-3 Condition	□ 1		□ 4	□ 5		
Residential Storage	□ R-1 □ S-1 Mo	□ R-2 loderate	□ R-3 □ R-4 □ S-2		☐ High-piled		
Utility and Miscellaneous		ng Garage	□ Open □ Encl	osed	□ Repair Garage		
□ Furnace room where □ Rooms with boilers w □ Refrigerant machine □ Hydrogen cutoff room □ Incinerator rooms □ Paint shops, not class □ Laboratories and voc □ Laundry rooms over □ Group I-3 cells equipp □ Group I-2 waste and □ Waste and linen colle □ Stationary storage ba ion capacity of 1,000	where the largest piece or com as, not classified as Group H, local ational shops, not class 100 square feet ped with padded surfact linen collection rooms ection rooms over 100 statery systems having a pounds used for facility a pumps oms over 100 square feel kitchens	of equipment is over oup H Ited in occupancies sified as Group H. I ces square feet a liquid electrolyte coy standby power, endet	other than Group F ocated in a Group E o apacity of more than 5 mergency power or un	r I-2 occupancy 50 gallons, or a lithiu			
□ Rooms containing fire □ Group I-2 storage roc □ Group I-2 commercia □ Group I-2 laundries e □ Group I-2 rooms or sp	qual to or less than 100 paces that contain fuel-		□ 405 □ 4	406 □ 407 418 □ 419	□ 408 □ 409 □ 421		
□ Group I-2 storage roc □ Group I-2 commercia □ Group I-2 laundries e □ Group I-2 rooms or sp	paces that contain fuel-		□ /17 □	418 🗆 419	□ 420 □ 421	□ 422 □ 423 □ 42	24 🗆 425
□ Group I-2 storage roc □ Group I-2 commercia □ Group I-2 laundries e □ Group I-2 rooms or sp Special Uses: NON	paces that contain fuel-	5 □ 416	□ 417 □ □ 509.4 □ 50	9.5 🗆 509	.6 □ 509.7	□ 509.8 □ 509.9	
□ Group I-2 storage roc □ Group I-2 commercia □ Group I-2 laundries e □ Group I-2 rooms or sp Special Uses: NON Special Provisions: Mixed Occupancy:	E	5	□ 509.4 □ 50		eeption:	□ 509.8 □ 509.9 	
□ Group I-2 storage roc □ Group I-2 commercia □ Group I-2 laundries e □ Group I-2 rooms or st Special Uses: NON Special Provisions: Mixed Occupancy: □ Incidental Use Se	E	5	□ 509.4 □ 50 Separation: □ □ 50 e exceptions). etermined by applying trestrictive type of contions calculated as recent the sum of the ratios e shall not exceed 1.	the height and area struction, so detern quired by paragraph of the actual floor a	limitations for each of lined, shall apply to the en 508.4.2.	tire building.	
□ Group I-2 storage roc □ Group I-2 commercia □ Group I-2 laundries e □ Group I-2 rooms or sp Special Uses: NON Special Provisions: Mixed Occupancy: □ Incidental Use Se This separation is □ Non-Separated U The required type the applicable occ □ Separated Use (5 For each story, th	E 402 403 415 426 427 509.2 No paration (508.2.5) not exempt as a Non-se (508.3) of construction for the cupancies to the entire (08.4) - See below for e area of the occupance by the allowable flood 508.4.2: Act	5	□ 509.4 □ 50 Separation: □ □ 50 e exceptions). etermined by applying trestrictive type of contitions calculated as rectit the sum of the ratios e shall not exceed 1.	Hr. Except the height and area struction, so determined by paragraph	limitations for each of lined, shall apply to the en 508.4.2.	pancy B ≤ 1	1.25
☐ Group I-2 storage roc ☐ Group I-2 commercia ☐ Group I-2 laundries e ☐ Group I-2 rooms or st Special Uses: NON Special Provisions: Mixed Occupancy: ☐ Incidental Use Se	E	5	□ 509.4 □ 50 Separation: □ e exceptions). etermined by applying t restrictive type of contitions calculated as red to the sum of the ratios e shall not exceed 1. ency A	the height and area struction, so determ quired by paragraph of the actual floor a	limitations for each of sined, shall apply to the en 508.4.2. Actual Area of Occur Allowable Area of Occur	pancy B ≤ 1	≤ 1.25 OR COMPLETIONS
Group I-2 storage roc Group I-2 commercia Group I-2 laundries e Group I-2 rooms or st Special Uses: NON Special Provisions: Mixed Occupancy: Incidental Use Se This separation is Non-Separated U The required type the applicable occ Separated Use (5 For each story, th of each use divide Separated Use Formula	E	5	© 509.4 © 50 Separation: e exceptions). etermined by applying trestrictive type of contitions calculated as red to the sum of the ratios e shall not exceed 1. ency A Decupancy A CASES (CALCULONTAGE INCREASE	the height and area struction, so determ quired by paragraph of the actual floor at th	limitations for each of sined, shall apply to the en 508.4.2. Actual Area of Occur Allowable Area of Occur SECTION FOR NEW, ADD	pancy B upancy B = SITION, CHANGE OF USE AND INTERIOR	
Group I-2 storage roc Group I-2 commercia Group I-2 laundries e Group I-2 rooms or st Special Uses: NON Special Provisions: Mixed Occupancy: Incidental Use Se This separation is Non-Separated U The required type the applicable occ Separated Use (5 For each story, th of each use divide Separated Use Formula	E	5	© 509.4 © 50 Separation: e exceptions). etermined by applying trestrictive type of contions calculated as red the sum of the ratios e shall not exceed 1. ency A Decupancy A	the height and area struction, so determ quired by paragraph of the actual floor at th	limitations for each of sined, shall apply to the en 508.4.2. Actual Area of Occur Allowable Area of Occur SECTION FOR NEW, ADD	pancy B upancy B =	
Group I-2 storage roc Group I-2 commercia Group I-2 laundries e Group I-2 laundries e Group I-2 rooms or sy Special Uses: NON Special Provisions: Mixed Occupancy: Incidental Use Se This separation is Non-Separated U The required type the applicable occ Separated Use (5 For each story, th of each use divide Separated Use Formula ALLOWABLE AREA & EXTERIOR WALL AGE GROUP I-2 storage roc NON Special Provisions: NON Special Provisions: NON Special Provisions: NON ALLOWABLE AREA & EXTERIOR WALL AGE ALLOWABLE AREA & EXTERIOR WALL AGE GROUP I-2 storage roc NON NON Special Provisions: NON ALLOWABLE AREA & EXTERIOR WALL AGE AGE AGE AGE AGE AGE AGE	E	5	© 509.4 © 50 Separation: e exceptions). etermined by applying trestrictive type of contitions calculated as red to the sum of the ratios e shall not exceed 1. ency A Decupancy A CASES (CALCULONTAGE INCREASE	the height and area struction, so determ quired by paragraph of the actual floor at th	limitations for each of sined, shall apply to the en 508.4.2. Actual Area of Occur Allowable Area of Occur SECTION FOR NEW, ADD	pancy B upancy B = SITION, CHANGE OF USE AND INTERIOR	
Group I-2 storage roc Group I-2 commercia Group I-2 laundries e Group I-2 laundries e Group I-2 rooms or st Special Uses: NON Special Provisions: Mixed Occupancy: Incidental Use Se This separation is Non-Separated U The required type the applicable occ Separated Use (5 For each story, th of each use divide Separated Use Formula ALLOWABLE AREA & EXTERIOR WALL North South	E	5	© 509.4 © 50 Separation: e exceptions). etermined by applying trestrictive type of contitions calculated as red to the sum of the ratios e shall not exceed 1. ency A Decupancy A CASES (CALCULONTAGE INCREASE	the height and area struction, so determ quired by paragraph of the actual floor at th	limitations for each of sined, shall apply to the en 508.4.2. Actual Area of Occur Allowable Area of Occur SECTION FOR NEW, ADD	pancy B upancy B = SITION, CHANGE OF USE AND INTERIOR	

ALLOWABLE AREA CALCULATIONS:

STORY NO.	OCCUPANCY	(A) BLDG AREA PER STORY (ACTUAL)	(B) 5 TABLE 506.2 AREA (TYPE V-B)	(C) % OPEN SPACE INCREASE	(D) % SPRINKLER INCREASE 2	(E) ALLOWABLE FLOOR AREA OR UNLIMITED 3	RATIO OF ACTUAL/ ALLOWABLE A/E	(F) MAXIMUM BUILDING AREA ⁴	SEPARATION RATING REQUIRED
1	A-3	3500	6,000	NONE	NONE	6,000	0.58	6000	N/R

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 = _____ (F)

b. Total Building Perimeter = ____(P) c. Ratio (F/P) = _____ (F/P)

d. W = Minimum width of public way = ____ (W)

e. Percent of frontage increase I = 100 [F/P - 0.25] x W/30 = _____ (%) 2 The sprinkler increase per Section 506.3 is as follows:

a. Multi-story building I = 2 (200 percent) b. Single story building I = 3 (300 percent) 3 Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (507.1,507.2,507.3,507.4,507.7);

Group A motion picture (507.10); Malls (507.11); and H-2 aircraft paint hangers (507.8). 4 Maximum Building Area = total number of stories in the building x E (506.4).

5 The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers comply with 412.1.2. ALLOWABLE HEIGHT CALCULATIONS:

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Туре	V-B	Туре	TABLE 601
Building Height in Feet	Feet40	Feet = H + 20' =n/a	Feet <u>16</u>	TABLE 504.3
Building Height in Stories	Stories 1	Stories + 1 =n/a	Stories =1	TABLE 504.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE	RATING ** (TABLE 601)		DETAIL#	DESIGN#	DESIGN # FOR	DESIGN#
	SEPARATION DISTANCE (FEET)	REQ'D V-B	PROVIDED (w/* REDUCTION	AND SHEET#	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	N/R	0	N/A				
Bearing walls Exterior		0					
North		0					
East		0					
West		0					
South		0					
Interior Bearing Walls (COLUMNS)		0					
Nonbearing walls Exterior		0					
North		0					
East		0					
West		0					
South		0					
Interior Non-Bearing Walls		0					
Floor construction including supporting beams and joists		1					
Roof construction including supporting beams and joists		1					
Shafts Enclosures - Exit Enclosures		0					
Shafts Enclosures - Other (describe)		0					
Corridor Separation		0					
Occupancy Separation		0					
Party/Fire Wall Separation		0					
Smoke Barrier Separation		0					
Tenant Separation		0					
Incidental Use Separation		0					_

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENINGS CALCULATIONS (THIS SECTION REQUIRED FOR ADDITIONS, NEW AND CHANGE OF USE PROJECTS) ALLOWABLE OPENINGS MEET REQUIREMENTS OF 705.8. Allowable openings per Table 705.8

WALL LEGENDS (THIS SECTION REQUIRED FOR ALL PROJECTS)

CHECK IF THE FOLLOWING ARE PRESENT AND INDICATE BY A ON AWALL LEGEND ☐ Fire Partitions 709 ☐ Fire Walls 706 ☐ Fire Barriers 707 ☐ Smoke Partitions 711 ☐ Smoke Barriers 710 ☐ Shaft Enclosure 708

(THIS SECTION REQUIRED FOR ALL PROJECTS) LIFE SAFETY SYSTEM REQUIREMENTS Emergency Lighting: Exit Signs:

Fire Alarm: Smoke Detection Systems: (DUCT DETECTORS) Panic Hardware:

(THIS SECTION REQUIRED FOR ALL PROJECTS) EXIT REQUIREMENTS NUMBER & ARRANGEMENT OF EXITS

FLOOR, ROOM AND/OR SPACE DESIGNATION		MINIMUM ² TRAVEL DISTANCE NUMBER OF EXITS				EANS OF N 1015.2)
BEOIGNATION	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN DOORS	ACTUAL DISTANCE SHOWN ON PLANS
A-3	2	6	200 FT	65'-6"	42'-5"	50'-6"

Corridor dead ends (Section 1018.4) Single exits (Section 1015.1; Section 1021.2) Common Path of Egress Travel (Section 1014.3)

Life safety systems generator:

(THIS SECTION REQUIRED FOR ALL PROJECTS) OCCUPANT LOAD AND EXIT WIDTH

	(a)	(b)	(a/b)	(c)	E	EXIT WIDTH ((in) 2,3,4	1,5
USE GROUP AND/OR SPACE DESIGNATION			NUMBER OF	EGRESS PER OCC (SECTION	CUPANT	REQUIRED (SECTION (a/b)(c)	1005.1) SHOWN		'N ON
		OCCUPANT	OCCUPANTS	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
Sanctuary	1498		104		0.20		20.8		128
Fellowship/Offices	1292		72		0.20		14.4		128
TOTAL # OF OCCUPANTS			176				35.2		256

See Table 1004.1.1 to determine whether net or gross area is applicable

2 Minimum stairway width (Section 1009.1); min. corridor width (Section 1018.2); min. door width (Section 1008.1.1) 3 Minimum width of exit passageway (Section 1023.2)

4 The loss of 1 means of egress shall not reduce the availability capacity to less than 50% of the total req'd (Sect 1005.1) 5 Assembly occupancies (Section 1028)

	ASSEMBLY OCC	UPANCY INFORMATION	(THIS SECTION REQI	(THIS SECTION REQUIRED FOR ASSEMBLY USE AREAS)					
(a) SPACE DESCRIPTION	(b) AREA (SQ. FT.)	(c) * OCCUPANT LOAD FACTOR	(d) OCCUPANT LOAD (b/c)	(e) EXIT WIDTH	(e) EXIT QUANTITY				
Sanctuary	1498	Fixed Seating	104 Occupants	128	3				
Fellowship/Kitchen	404	7 Net/200 Gross	44 Occupants	96	2				
Pastor's Office	287	100 Gross	3 Occupants	64	2				
Classroom 1	84	7 Net	12 Occupants	32	1				
Classroom 2	88	7 Net	12 Occupants	32	1				
Secretary	62	100 Gross	1 Occupant	32	1				
TOTAL # OF ASSEMBLY OCC	CUPANTS		176 Occupants		6				

	LIFE SAFETY PLAN REQUIREMENTS	(THIS SECTION REQUIRED FOR ALL PROJECTS)
Life Safety Plan Sheet #:	Assembly A-3	
	☐ Fire and/or smoke rated wall locations (Chapter 7)	
	 Assumed and real property line locations 	
	 Exterior wall opening area with respect to distance 	e to assumed property lines (705.8)
	☐ Existing structures within 30' of the proposed build	ding
	 Occupancy types for each area as it relates to occ 	cupant load calculation (Table 1004.1.1)
	Exit access travel distances (1016)	
	✓ Common path of travel distances (1014.3 & 1028.	8)
	□ Dead end lengths (1018.4)	
	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	
	□ A separate schematic plan indicating where fire ra	ated floor/ceiling and/or roof structure is provided for
	purposes of occupancy separation	
	☐ Location of doors with panic hardware (1008.1.10	
	 Location of doors with delayed egress locks and to 	he amount of delay (1008.1.9.7)
	 Location of doors with electromagnetic egress loc 	ks (1008.1.9.8)
	☐ Location of doors equipped with hold-open device	s
	☐ Location of emergency escape windows (1029)	
	☐ The square footage of each fire area (902)	

	ACCESSIBLE	DWELLING UNITS (S	ECTION 1107)	(THIS SECTION REQUIRED FOR ALL RESIDENTIAL PROJECTS)					
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		
	NONE REQUIRED								

□ Note any code exceptions or table notes that may have been utilized regarding the items above

☐ The square footage of each smoke compartment (407.4)

OCCUPANCY	WA	WATER CLOSETS		URINALS		LAVATORIE	S	SHOWERS/	DRINKING	FOUNTAINS
	MALE	UNISEX	FEMALE		MALE	UNISEX	FEMALE	TUBS	REGULAR	ACCESSIBLE
Religious Assembly A-3	3	1	3		3	1	3			
TOTAL REQUIRED	2	0	2		2	0	2			
TOTAL PROVIDED THIS PROJECT	3	1	3		3	1	3			

DRAIN SIZE	BUILDING DRAINS	FIXTURE UNIT LOAD	SERVICE SIZE (INCHES)	WATER SERVICES	FIXTURE UNIT LOAD	
4"	1	24	2	1	28	

STRUCTURAL DESIGN LOADS		(THIS SECTION REQUIRED FOR NEW CONSTRUCTION PROJECTS)
EXISTING OCCUPIED BUILDING NO STRUCTURAL RENOVA	TIONS	
Structure conforms to Conventional Light Frame Provisions of 2308	110110	
1 Yes, continue No, Go to Line 9		
2 Roof Live Load =		PSF
3 Floor Live Load =		PSF
4 Ground Snow Load (Pg) =		PSF
5 Basic Wind Speed, 3 sec gust =		MPH
6 Seismic Site Class =		MFTI
7 Seismic Design Category =		
8 Go to Line 44		
9 Live Loads		Area
10 Floor Live Load (indicate area) =		
11 Floor Live Load (indicate area) =		
12 Floor Live Load (indicate area) =		
13 Live Load Reduction used in Design	□ Yes	No
14 Roof Live Load =		
15 Roof Snow Load Data		
16 Flat-Roof Snow Load (Pf) =		
17 Snow Exposure Factor (Ce) =		
18 Snow Importance Factor (Is) =		
19 Thermal Factor (Ct) =		
20 Wind Design Data		
21 Basic Wind Speed, 3 sec gust =		
22 Wind Importance Factor (Iw) =		
22 Mind Function		
23 Wind Exposure 24 Internal Pressure Coefficient		
24 Internal Pressure Coefficient		
25 Components and Cladding Loads =		
26 Wind Base Shear, Wx		
27 Wind Base Shear, Wyx		
28 Earthquake Design Data		
29 Seismic Importance Factor (le) =		
30 Occupancy Category		
31 Mapped Spectral Response Acceleration Ss		
32 Mapped Spectral Response Acceleration S1		
33 Site Class		(Provide soils report is Site Class is not "D")
34 Spectral Response Coefficient, Sds =		
35 Spectral Response Coefficient, Sd1 =		
36 Seismic Design Category =		
37 Building (Structural) System		
38 Basic Seismic Force Resisting System		
39 Seismic Response Coefficient (Cs) =		
40 Response Modification Factor, R =		
41 Analysis Procedure Used =		KIPS
42 Seismic Base Shear, Sx		KIPS
43 Seismic Base Shear, Sy44 Soils Data		INI U
45 Presumptive Soil Bearing Pressure =		PSF
46 Bearing Pressure per Soils Report =		PSF
47 Deep Foundation Type		
48 Deep Foundation Allowable Loads		TONS, downward
49 Uplift		KIPS
50 Lateral		KIPS

ACCESSIBLE PARKING (SECTION 1106) (THIS SECTION FOR NEW, ADDITION, CHANGE OF USE AND INTERIOR COMPLETIONS)

LOT OR PARKING AREA	TOTAL # OF PARKING SF	PACES	# OF ACCESSIBLE SPACES	TOTAL # ACCESSIBLE PROVIDED			
	REQUIRED PROVIDED		REGULAR WITH 5' ACCESS AISLE		VAN SPACES WITH 132" ACCESS 96" ACCESS		
			ACCESS AISLE	AISLE	AISLE	1 NOVIDED	
EXISTING	21	34	1			1	
NEW							
TOTAL	21	34	1			1	

ENERGY SUMMARY (THIS SECTION FOR NEW, ADDITION, CHANGE OF USE AND INTERIOR COMPLETIONS) ENERGY REQUIREMENTS: The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy

Climate Zone: Method of Compliance: (Energy Code) (Energy Code) (ASHRAE 90.1)ance (ASHRAE 90.1) □ Performance

THERMAL ENVELOPE (SEE DRAWING SHEET _____) OR COMCHECK PRINTOUT.

cost for the proposed design.

MECHANICAL SUMMARY (SEE DRAWING SHEET _____) (THIS SECTION REQUIRED FOR ALL PROJECTS THAT INCLUDE MECHANICAL DESIGN.) (THIS SECTION REQUIRED FOR ALL PROJECTS THAT INCLUDE ELECTRICAL DESIGN.) ELECTRICAL SUMMARY (SEE DRAWING SHEET _____)



PROPERTY OF TPDCLLC DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN PROPERTY OF THE DESIGNER WHETHER THE PROJECT FOR WHICH THEY ARE MADE FOR IS EXECUTED THE DRAWINGS AND SPECIFICATIONS

SHALL NOT BE USED BY THE OWNER

ON OTHER PROJECTS FOR ADDITIONS

TO THIS PROJECT OR FOR COMPLETION

OF THIS PROJECT BY OTHERS EXCEPT

BY AGREEMENT IN WRITING WITH THE

DESIGNER.

APPROPRIATE COMPENSATION TO THE

IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/ OR BUILDER TO CONFORM TO ALL STANDARDS, PROVISIONS, REQUIREMENTS, METHODS OF CONSTRUCTION AND USES OF MATERIALS, IN BUILDING CODES ANY OTHER LOCAL AGENCIES AND IN ACCORDANCE WITH GOOD ENGINEERING AND CONSTRUCTION PRACTICES.

I CERTIFY THAT THE CONSTRUCTION EXHIBITS FOR (IDENTIFICATION OF THE PROPERTY BY HOUSE TYPE, LOT, LOCK, SUBDIVISION NAME, AND SO ON) MEET ALL LOCAL CODE REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH BOTH SAH AND VA MINIMUM PROPERTY REQUIREMENTS, ALL BUILDING STANDARDS AS SET FORTH BY THE INTERNATIONAL CODE COUNCIL (ICC) AND FEDERAL SAFE DRINKING WATER PLUMBING STANDARD.

Consultant/Lead Designer:



k of Salvation Church 36 Line Rd Cameron, NC Rock

Appendix

	L	
Revisions:		

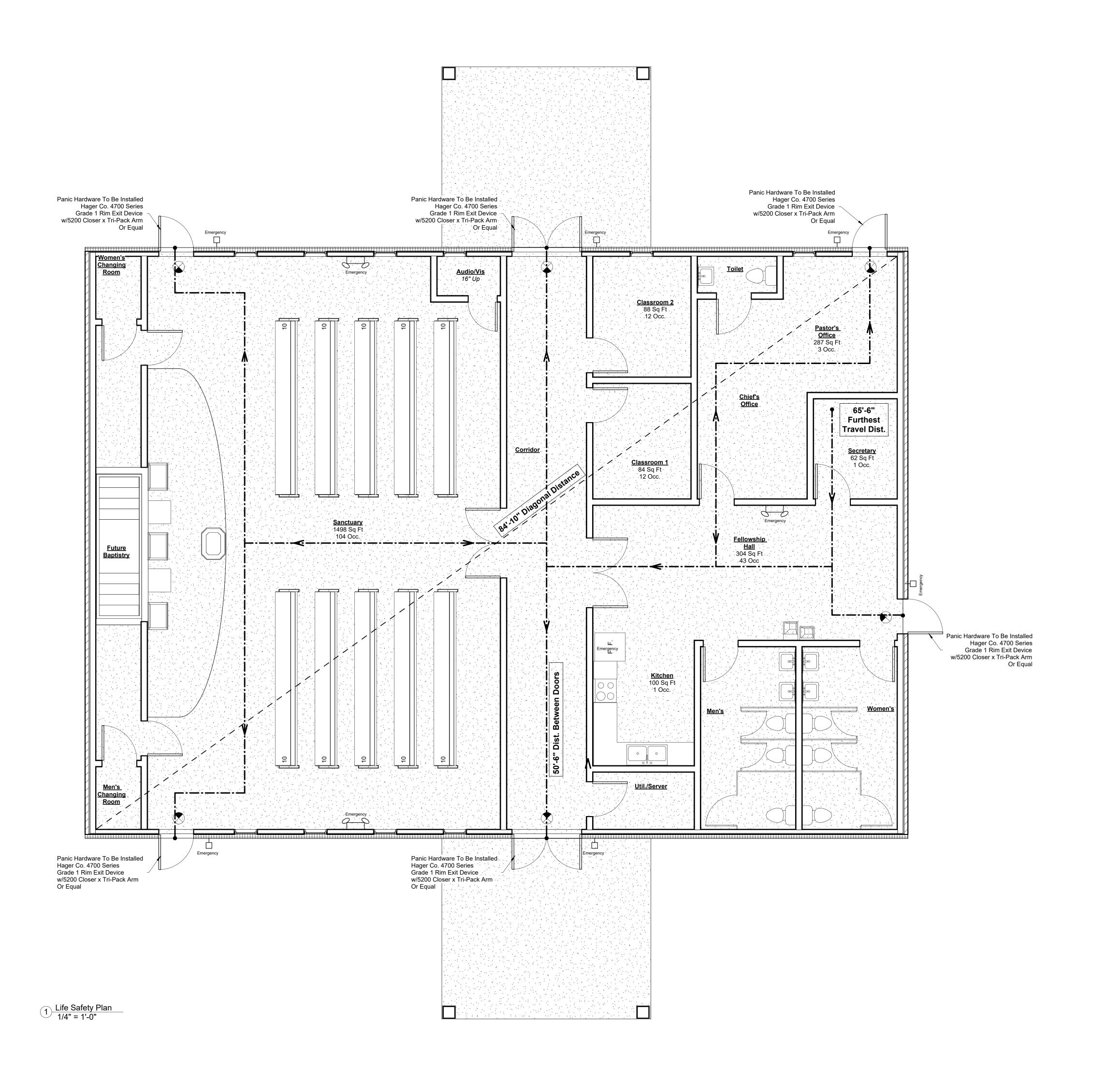
SCALE:

DATE:

October 28, 2024

Project number 10282400002 TP Drawn by

Checked by





PROPERTY OF TPDCLLC

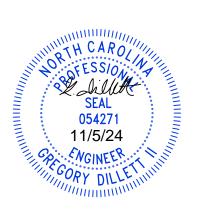
DRAWINGS AND SPECIFICATIONS AS
INSTRUMENTS OF SERVICE ARE AND
SHALL REMAIN PROPERTY OF THE
DESIGNER WHETHER THE PROJECT FOR

WHICH THEY ARE MADE FOR IS EXECUTED OR NOT.
THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY THE OWNER ON OTHER PROJECTS FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS EXCEPT BY AGREEMENT IN WRITING WITH THE APPROPRIATE COMPENSATION TO THE DESIGNER.

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AND USES OF MATERIALS, IN BUILDING CODES
ANY OTHER LOCAL AGENCIES AND IN
ACCORDANCE WITH GOOD ENGINEERING AND
CONSTRUCTION PRACTICES.

I CERTIFY THAT THE CONSTRUCTION EXHIBITS FOR (IDENTIFICATION OF THE PROPERTY BY HOUSE TYPE, LOT, LOCK, SUBDIVISION NAME, AND SO ON) MEET ALL LOCAL CODE REQUIREMENTS AND ARE IN SUBSTANTIAL CONFORMITY WITH BOTH SAH AND VA MINIMUM PROPERTY REQUIREMENTS, ALL BUILDING STANDARDS AS SET FORTH BY THE INTERNATIONAL CODE COUNCIL (ICC) AND FEDERAL SAFE DRINKING WATER PLUMBING STANDARD.

Consultant/Lead Designer:



Rock of Salvation Church 36 Line Rd Cameron, NC

Life Safety

Revisions:

SCALE:

DATE:

Drawn by

October 28, 2024

1/4" = 1'-0"

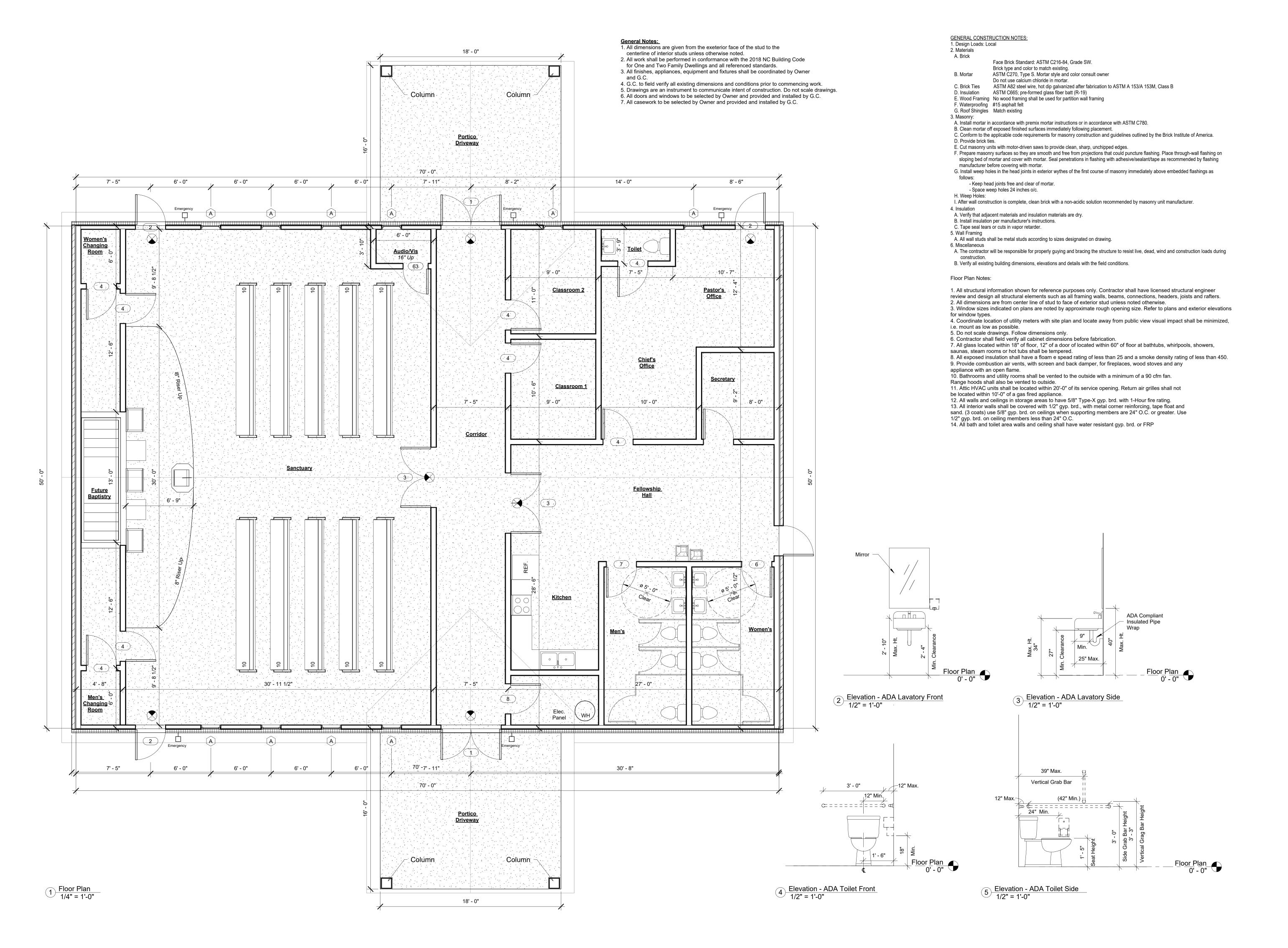
TP

Project number

10282400002

Checked by

A-1.





PROPERTY OF TPDCLLC

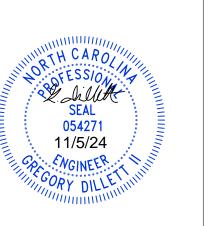
DRAWINGS AND SPECIFICATIONS AS
INSTRUMENTS OF SERVICE ARE AND
SHALL REMAIN PROPERTY OF THE
DESIGNER WHETHER THE PROJECT FOR
WHICH THEY ARE MADE FOR IS EXECUTED

OR NOT.
THE DRAWINGS AND SPECIFICATIONS
SHALL NOT BE USED BY THE OWNER
ON OTHER PROJECTS FOR ADDITIONS
TO THIS PROJECT OR FOR COMPLETION
OF THIS PROJECT BY OTHERS EXCEPT
BY AGREEMENT IN WRITING WITH THE
APPROPRIATE COMPENSATION TO THE
DESIGNER.

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Consultant/Lead Designer:



Rock of Salvation Church 36 Line Rd Cameron, NC Floor Plan

Revisions:

SCALE:

DATE:

October 28, 2024

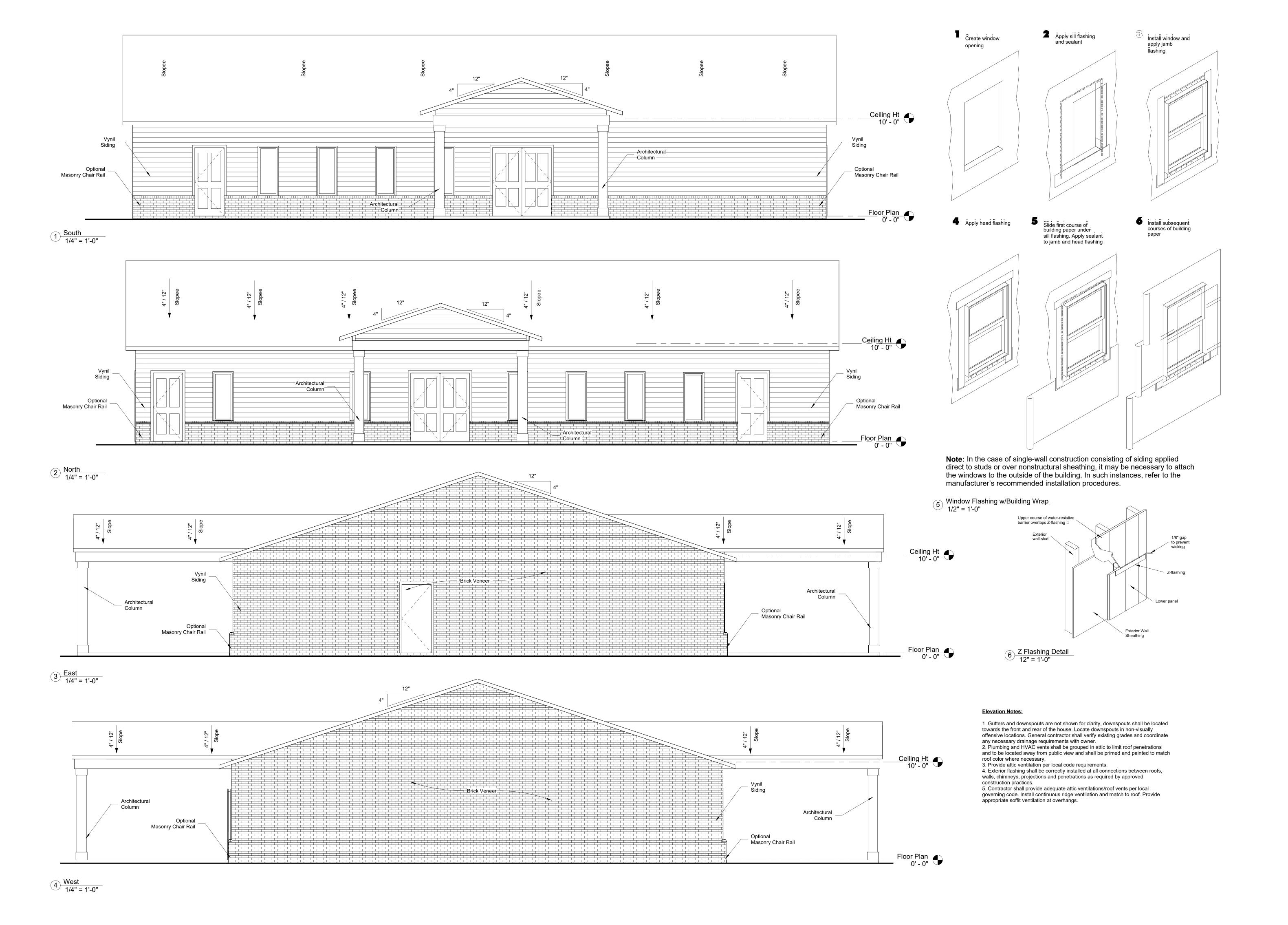
As indicated

Project number 10282400002

10282400

Drawn by TP
Checked by TP

A-1.2



LLC
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348 WAGONER DR. SUITE 208 FAYETTEVILLE NC 28308
(910) 494-7272 www.pepdc.com • [peppers@pepdc.com

PROPERTY OF TPDCLLC

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Consultant/Lead Designer:



Rock of Salvation Church 36 Line Rd Cameron, NC

Elevations

Revisions:

SCALE:

Checked by

As indicated

DATE: October 28, 2024

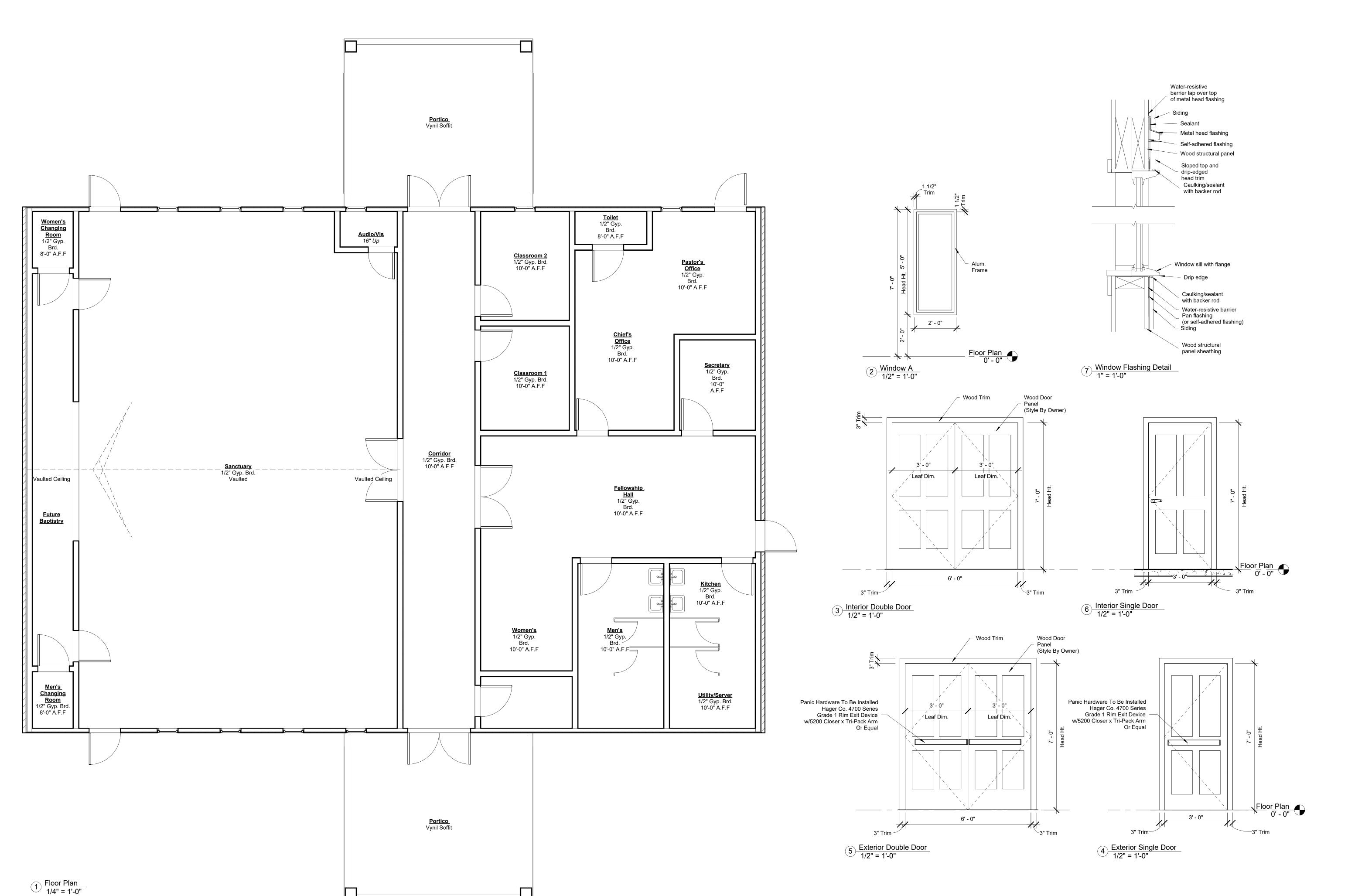
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Project number 10282400002

Drawn by TP

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A-1.3





PROPERTY OF TPDCLLC DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN PROPERTY OF THE

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Consultant/Lead Designer:



k of Salvation Church 36 Line Rd Cameron, NC Reflected Ceiling Plan Rock

Revisions:

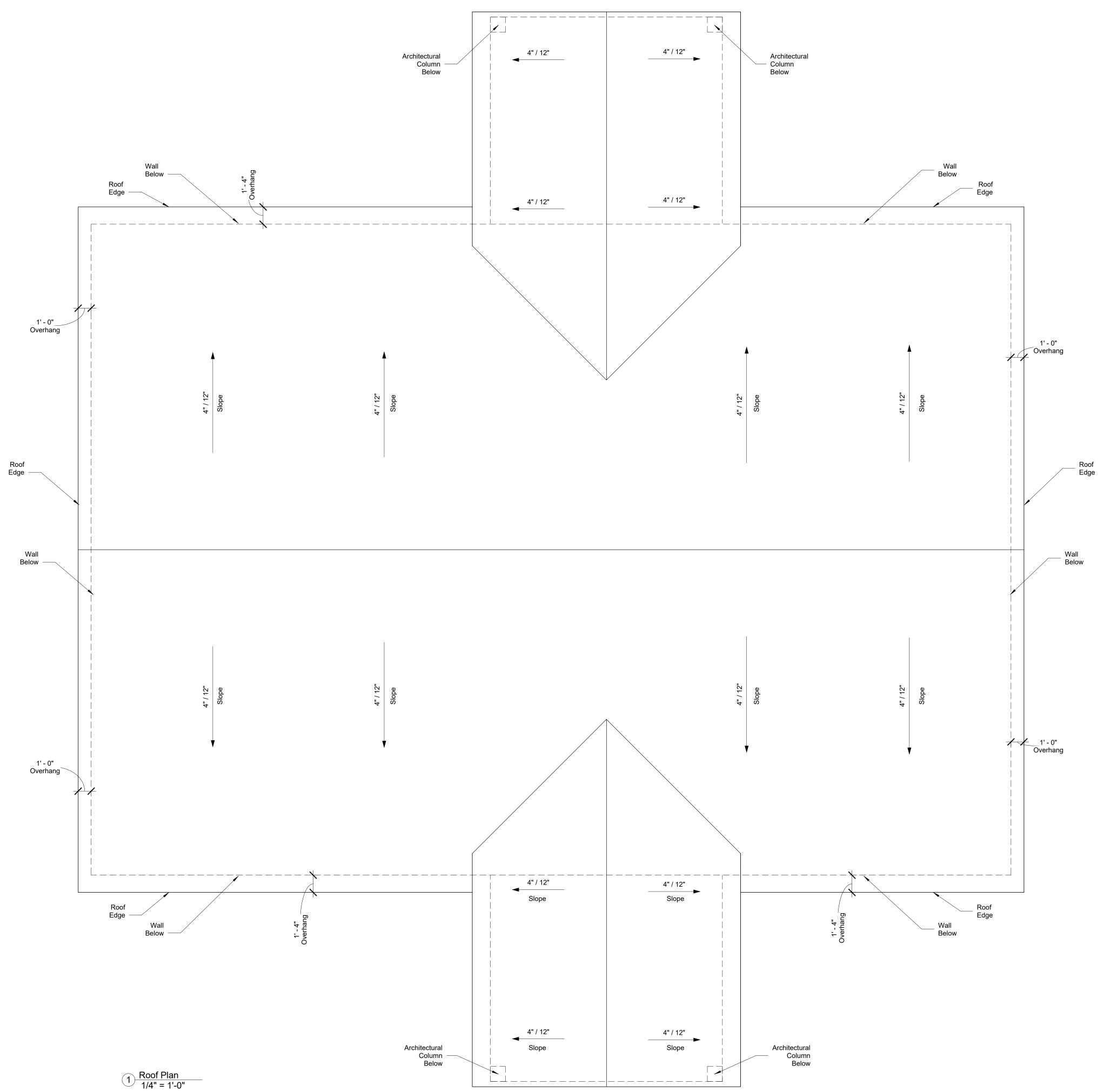
SCALE:

As indicated

DATE: October 28, 2024

Project number 10282400002

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Roofing Ventilation Section R806

R806.1 Ventilation Required. Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of the roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch minimum nad 1/4 inch maximum. Ventilation opening having a least dimension larger than 1/4 inch shall be provided with corosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch minimum and 1/4 inch maximum. Openings in roof framing members shall conform to the requirements of Section 802.7.

R806.2 Minimum Area. The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in teh upper portion of the space to be ventilated at least 3 feet above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when Class I or Class II vapro retarder is installed on the warm-in-winter side of the ceiling. Exceptions:

1. Enclosed attic/rafter spaces requiring less than 1 square foot of ventilation may be vented with continuous soffit ventilation only.

2. Enclosed attic/rafter spaces over unconditioned space may be vented with continuous soffit ventilation only.

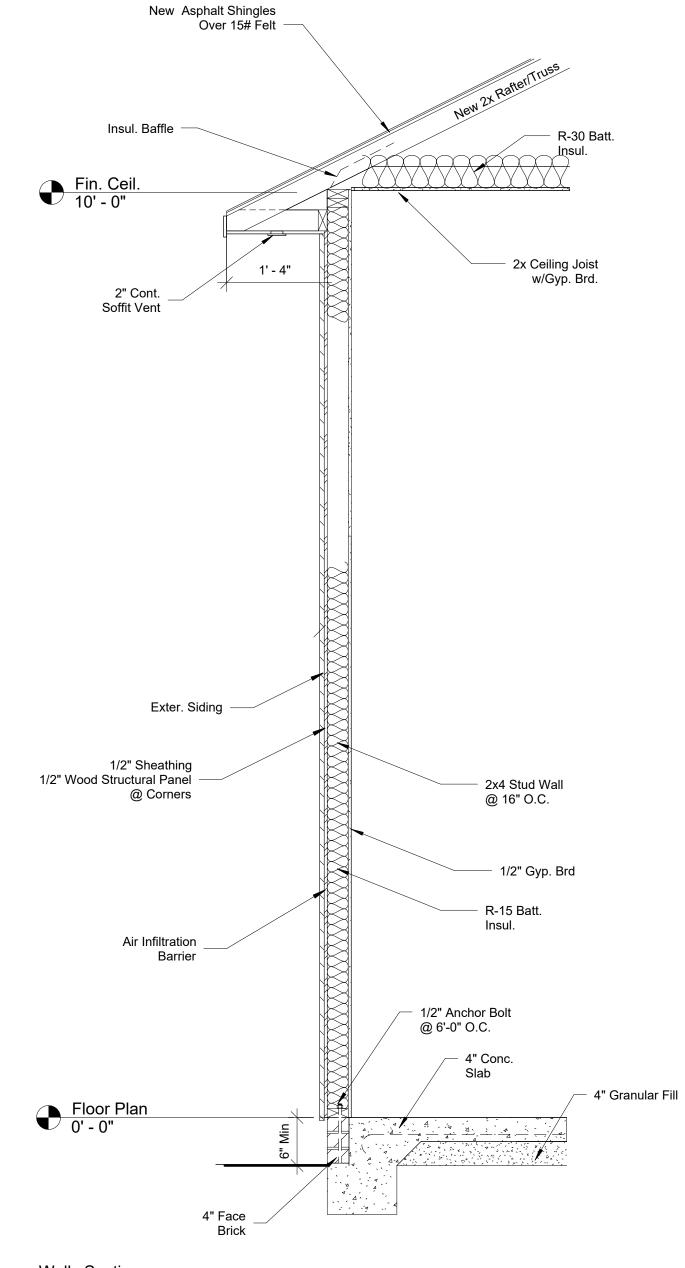
Square Footage Being Ventilated:

Net Free Cross Ventilation Needed:
 Without 50% to 80% of venting 3'-0" Above Eave:

27.50 Sq. Ft. With 50% to 80% of venting 3'-0" above eave or Class I or ClassII Vapor Retarder:

13.75 Sq. Ft

4124 Sq. Ft.



Walls Section 3/4" = 1'-0"



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Consultant/Lead Designer:



Rock of Salvation Church 36 Line Rd Cameron, NC Roof Plan

Revisions:

SCALE: As indicated

DATE:

October 28, 2024

Project number

10282400002

Drawn by TP Checked by

DADAMETEDS DESIGN IRC 2024

ŀ	PARAMETERS DESIGN TBC 2024							
L	OADS:							
W	IND DESIGN							
1.	BASIC WIND SPEED (3-SECOND GUST), MILES PER HOUR = 117							
2.	WIND IMPORTANCE FACTOR, I=1.0 AND OCCUPANCY CATEGORY = II							
3.	WIND EXPOSURE CATEGORY: C							
4.	THE APPLICABLE INTERNAL PRESSURE COEFFICIENT =0.18							
<u>SE</u>	ISMIC DESIGN	;						
1.	SEISMIC IMPORTANCE FACTOR, I=1.0 , AND OCCUPANCY CATEGORY = II							
2.	MAPPED SPECTRA RESPONSE ACCELERATIONS, Ss=0.15g AND S1=0.071g							
3.	SITE CLASS = D							
4.	SPECTRA RESPONSE COEFFICIENTS, SDS=0.160g							
5.	SEISMIC DESIGN CATEGORY = C							
6.	CANTILEVERED COLUMN SYSTEMS DETAILED TO CONFIRM TO TIMBER FRAMES.							
7.	BASE SHEAR =13700 LBS							
8.	BUILDING WEIGHT = 141000 LBS							
9.	SEISMIC RESPONSE COEFFICIENT(S), Cs=0.0246 (ASD)							
	RESPONSE MODIFICATION FACTOR(s), R = 1.5							
	ANALYSIS PROCEDURE USED : EQUIVALENT LATERAL FORCE PROCEDURE							
	REDUNDANCY FACTOR USED: 1.3							
13.	ASSUMED BEARING VALUE OF SOILS = 1500 PSF.							

REINFORCING:

BASIS OF DESIGN

ROOF DEAD LOAD

INTERIOR DEAD LOAD

•EX. WALL DEAD LOAD = 16 PSF

ALL REINFORCING SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF ACI 318, CRSI SPECIFICATIONS AND HANDBOOK, AND THE STEEL REINFORCING DETAILING MANUAL. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 (Fy = 60 KSI) DEFORMED BARS FOR ALL BARS UNLESS NOTED OTHERWISE. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WITH THE WIRE CONFORMING TO ASTM A82. REINFORCING BARS SHALL NOT BE TACK WELDED. REINFORCING BAR SPACING AS SHOWN ARE MAXIMUM ON CENTER SPACING. CLEAR CONCRETE COVERAGE SHALL BE AS FOLLOWS:

ROOF LIVE LOAD

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ------ 3" EXPOSED TO EARTH OR WEATHER:

#6 OR LARGER ----- 2" #5 AND SMALLER ----- 1 1/2"

= 25 PSF

= 10 PSF

ALL OTHER PER LATEST EDITION OF ACI 318.

LAP SPLICES IN CONCRETE: (BARS) LAP SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES AS DESCRIBED IN THE LATEST EDITION OF ACI 318 UNLESS OTHERWISE NOTED. LAP SPLICES IN CONCRETE COLUMNS SHALL BE STANDARD COMPRESSION LAP SPLICES. SPLICES SHALL BE STAGGERED A MINIMUM OF ONE LAP LENGTH. (WELDED WIRE FABRIC) WELDED WIRE FABRIC SHALL BE LAPPED SUCH THAT THE OVERLAP, MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET, IS GREATER THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.

ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. BENT CORNER BARS SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS AND SHALL MATCH AND LAP WITH HORIZONTAL BARS AS INDICATED IN | CLOSURE POURS SHALL BE CAST AROUND COLUMNS ONLY AFTER THE STRUCTURE DEAD LOAD HAS BEEN APPLIED TO THE THE TYPICAL DETAILS. ALL BENT BARS SHALL BE COLD BENT. ALL VERTICAL REINFORCING SHALL BE DOWELED INTO | COLUMN. FOOTINGS WITH STANDARD 90 DEGREE HOOKS UNLESS NOTED OTHERWISE. CONCRETE COLUMN DOWEL EMBEDMENT SHALL BE A STANDARD COMPRESSION DOWEL WITH EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF THE

ALL REINFORCING AND EMBEDDED ITEMS SUCH AS PLATES, BOLTS, ETC. SHALL BE IN PLACE AND PROPERLY SECURED PRIOR TO PLACING GROUT OR CONCRETE. IN NO CASE SHALL ITEMS BE "WET SET" OR STABBED INTO UNSET GROUT OR CONCRETE. REINFORCING SHALL BE SECURED IN PLACE SO AS TO AVOID MOVEMENT DURING PLACEMENT.

GENERAL NOTES

- NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY RESPONSIBILITIES OF THE OWNER, CONTRACTOR, ARCHITECT, ENGINEER, SUPPLIER, OR ANY OF THE CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD (S.E.R.) OR ANY OF THE S.E.R. 'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
- REFERENCE TO STANDARD SPECIFICATIONS (CONCERNING STRUCTURAL DESIGN) OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD CODES, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- IN THE EVENT CONTRACT DOCUMENTS CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, AISI, SJI OR OTHER STANDARDS, CONTACT STRUCTURAL ENGINEER FOR CLARIFICATION.
- NOTES AND SPECIFIC DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. CONTACT THE ARCHITECT / ENGINEER FOR A DETERMINATION OF INTENT BEFORE PROCEEDING WITH RELATED WORK IF THERE IS ANY DISCREPANCY OR QUESTION REGARDING WHICH NOTE TO
- 5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT / ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
- 7. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 8. THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL WORKS WITH THE STRUCTURAL CONTRACT DOCUMENTS. THE ARCHITECT / ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR OMISSIONS.
- 9. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE ENGINEER OF CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE CONTRADICTORY TO THOSE SHOWN ON THE CONTRACT DOCUMENTS.
- 10. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.

DEFERRED SUBMITTALS: (PER IBC 2024)

THE DESIGN OF THE FOLLOWING ITEMS SHALL BE PROVIDED AS "DEFERRED SUBMITTAL" ITEMS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE SECTION 106.3.4.2.

"PREFAB TRUSS"

THE DESIGN OF THE ITEMS LISTED SHALL BE SUBMITTED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHO WILL REVIEW THE DOCUMENTS. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL PROVIDE NOTATION ON THE DOCUMENTS AFTER THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. UPON ACCEPTANCE BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, THE CONTRACTOR SHALL SUBMIT THE DOCUMENTS TO THE BUILDING OFFICIAL. DO NOT INSTALL ANY DEFERRED SUBMITTAL ITEMS UNTIL THE DESIGN HAS BEEN ACCEPTED BY THE BUILDING OFFICIAL

RESEARCH REPORT							
ICC-ES REPORT #							
HOLDOWNS U HANGER CC COLUMN CAP	ESR-2330 ESR-2549 ESR-2604	SHOT PINS FRAMING CLIPS PARALLAM	ESR-1799 ESR-2606 ESR-1387				

1.	STRUCTURAL LUMBER SHALL BE GRADE-	MARKED DOUGLAS FIR-LARCH						
	BEAMS	4x OR BIGGER	No. 1 & No. 2					
	STUD	2x4 OR 2x6	No. 2					
	POSTS	4x OR BIGGER	No. 2					
2.	SILLS OR PLATES BEARING ON CONCRET	E OR MASONRY WHICH IS WITHIN 48" O	F EARTH SHALL BE					
	PRESSURE TREATED, OR EQUAL, WOOD SI	LL PLATES SHALL BE BOLTED TO THE FOU	NDATION WITH 5/8"					
	DIAMETER x 10" BOLTS 4'-0" o.c. 12" MIN	. FROM ENDS, OR 2 BOLTS MIN. PER PIECE	. WHERE DIFFERENT					
	SIZES AND/OR SPACING ARE REQUIRED), THEY SHALL GOVERN. INSTALL WITH	3"x3"x1/4" PLATE					
	WASHER AT EACH ANCHOR BOLT.							
3.	JOISTS SHALL BE BLOCKED AT SUPPORTS	S AND BRIDGED OR BLOCKED AT INTERVA	LS OF 8 FT WHERE					
	JOISTS ARE 2x12 OR DEEPER.							
4.	JOISTS UNDER NON-BEARING PARTITIONS							
5.	LAGBOLTS (& SCREWS) SHALL BE PRE-DR	ILLED TO SHANK DIAMETER AND FULL DE	PTH AND SCREWED					
	(NOT DRIVEN) INTO PLACE.							
6.	CUT WASHERS SHALL BE PLACED UNDE	R HEADS AND NUTS OF ALL BOLTS AND	UNDER HEADS OF					
	LAGBOLTS. ONE CUT WASHER SHALL BE U	JSED FOR BOLTS CONNECTING WOOD LED	GERS TO CONCRETE					
	OR MASONRY WALLS.							
7.	ALL HARDWARE USED FOR WOOD CONN							
		ONS. ALTERNATE PRODUCTS WILL ONLY	BE PERMITTED IF					
	WRITTEN APPROVAL AND ACCEPTANCE IS							
8.	ALL LUMBER SHALL HAVE A MOISTURE C	ONTENT NOT TO EXCEED 19% AT THE TIN	IE OF FABRICATION					
_	OR CONSTRUCTION.							
9.	PROVIDE LEAD HOLE 40%-70% OF THE	READED SHANK DIA. AND FULL DIA. FO	R SMOOTH SHANK					
	PORTION.							
10.	PLACE 2" FIREBLOCKING IN STUD WALLS A	·	O' HEIGHT OF STUDS,					
	AND BETWEEN STAIR STRINGERS AT SUPP							
	PARALLAM COLUMNS MUST BE FABRICAT							
12.	GLU-LAM BEAMS MUST BE FABRICATED IN	NA LICENSED SHOP & SHALL BE 24F-V4 GR	ADE.					
CO	NCRETE:							
ALL	CONCRETE CONSTRUCTION AND DETAILING SHA	LL CONFORM TO THE LATEST EDITION OF ACI 31	.8					

ALL CONCRETE CONSTRUCTION AND DETAILING SHALL CONFORM TO THE LATEST EDITION OF ACI 318 MINIMUM 28 DAY COMPRESSIVE STRENGTH (F'c) SHALL BE AS FOLLOWS:

2500 PSI

2500 PSI

SLABS ON GRADE -FOUNDATIONS-

WOOD CONSTRUCTION

ALL CONCRETE IS TO BE MECHANICALLY VIBRATED WHEN PLACED, EXCEPT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, PENETRATIONS, ETC. CONCRETE SHALL BE DEPOSITED AS NEAR AS POSSIBLE TO ITS FINAL POSITION AND SHALL BE PLACED SO AS TO AVOID SEGREGATION. VIBRATING EQUIPMENT SHALL NOT BE USED TO MOVE CONCRETE INTO POSITION. ALL REINFORCING, EMBED PLATES, ANCHORS, ETC, SHALL BE IN PLACE AND PROPERLY SECURED PRIOR TO PLACING CONCRETE. "WET STABBING" IS NOT ALLOWED.

ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY KEYED OR SAW CUT CONTROL JOINTS AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 400 SQUARE FEET, UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT. KEYED CONTROL JOINTS NEED TO OCCUR ONLY AT SLAB EDGES LEFT EXPOSED DURING PLACEMENT. ALL OTHER JOINTS MAY BE SAW CUT.

CONTRACTOR IS TO VERIFY LOCATION OF ALL CONTROL JOINTS IN CONCRETE SLABS OVER PRECAST ELEMENTS WITH THE PRECAST MANUFACTURER.

REVIBRATE TOPS OF CAISSONS 15 MINUTES AFTER PLACING CONCRETE.

INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS OR REQUESTED BY CONTRACTOR, SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED.

NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

ALL CONCRETE THAT WILL BE SUBJECTED TO FREEZING TEMPERATURES DURING ITS LIFE, INCLUDING WHILE WET, SHALL HAVE A WATER-CEMENT RATIO NOT EXCEEDING 0.53 BY WEIGHT AND SHALL CONTAIN ENTRAINED AIR PER ACI 301. SUCH CONCRETE SHALL BE PROVIDED FOR EXTERIOR SLABS, PERIMETER STEMS AND FOUNDATIONS, EXTERIOR CURBS AND

CONSTRUCTION DOCUMENTS. IN NO CASE SHALL THERE BE LESS THAN 4 SETS OF SHIMS BELOW EACH PANEL.

NAILING SCHEDULE

CONNECTIONS	<u>NAILING</u>
POST TO PIER PAD, TOE NAIL	3-16d OR 4-8d
GIRDER TO POST, TOE NAIL	3-16d OR 4-8d
JOIST TO SILL OR GIRDER, TOE NAIL	3-8d
BRIDGING TO JOIST, TOE NAIL EACH END	2-8d
JOISTS TO BLOCKING, END NAIL	16d TOP AND BOTT. OF EACH JOIST
RIM JOIST TO JOISTS, END NAIL	16d TOP AND BOTT. OF EACH JOIST
RIM JOIST TO SILL, TOE NAIL	16d @ 16" O.C.
FLOOR JOIST LAP @ BEARING, FACE NAIL	2-16d
1"x6" OR NARROWER SUB FLOOR SHEATHING TO EACH JOIST, FACE NAIL	2-8d
WIDER THAN 1"x6" SUB FLOOR SHEATHING TO EACH JOIST, FACE NAIL	3-8d
2" SUB FLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-16d
SOLE PLATE TO JOIST OR BLOCKING NAIL	16d @ 16" O.C.
TOP PLATE TO SOLE PLATE TO STUD, END NAIL	2-16d
STUD TO SOLE PLATE	2-16d END NAIL OR 4-8d TOE NAIL
DOUBLE STUDS, FACE NAIL	16d @ 24" O.C.
DOUBLE TOP PLATES, FACE NAIL	16d @ 16" O.C.
TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
CONTINOUS HEADER, TWO PIECES SET ON EDGE	16d @ 16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOE NAIL	3-8d
CONTINOUS HEADER TO STUD, TOE NAIL	4-8d
CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL	3-16d
CEILING JOISTS TO PARRALEL RAFTERS, FACE NAIL	3-16d
RAFTER TO RIDGE	3-8d
RAFTER TIES, 2" LUMBER, FACE NAIL	3-16d
RAFTER TIES, 1" LUMBER, FACE NAIL	5-8d
RAFTER TO PLATE NAIL	3-8d
1"x4" MIN. BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d
1"x8" OR NARROWER SHEATHING TO EACH BEARING, FACE NAIL	2-8d
WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	3-8d
BUILD-UP CONNER STUDS	16d @ 24" O.C.
* COMMON OR GALVANIZED BOX NAILS	

ABBREVIATIO			
A.B.C. ———	——— AGGREGATE BASE COURSE	GA —	GAGE
A.F.F. ———	——— ABOVE FINISHED FLOOR	GALV —	GALVANIZED
ALT. ———	——— ALTERNATE	G.S.N.	GENERAL STRUCT'L NOTES
A.B. ———	——— ANCHOR BOLT	GLB —	GLUED-LAMINATED BEAM
<u> </u>	——— AT (MEASUREMENT)	I.F.W.	INSIDE FACE OF WALL
BM ———	——— BEAM	HORIZ	HORIZONTAL
B.F.F ———	BELOW FINISHED FLOOR	K(KIP)	1000 POUNDS
B.O.B. ———	——— BOTTOM OF BEAM	L.L.	LIVE LOAD
3.0.D. ———	——— BOTTOM OF DECK	LBS (#) ——	POUNDS
.O.F. —	——— BOTTOM OF FOOTING	LLH —	LONG LEG HORIZONTAL
RG ——	BEARING	LLV	LONG LEG VERTICAL
.I.P. ———	——— CAST IN PLACE	LSH —	LONG SIDE HORIZONTAL
J —	——— CEILING JOIST	LSV	LONG SIDE VERTICAL
L. —	CENTERLINE	MFR('S)	MANUFACTURER('S)
.L.B. ———	CENTERLINE OF BEAM	MAS C.J.	MASONRY CONTROL JOINT
.L.C. ——	CENTERLINE OF COLUMN	MECH'L —	MECHANICAL
.L.F. —	CENTERLINE OF FOOTING	MLB —	MICROLLAM BEAM
.L.L. —	CENTERLINE OF LEDGER	N/A	NOT APPLICABLE
.L.W	CENTERLINE OF WALL	N.T.S.	NOT TO SCALE
LR —	CLEAR	0.C. —	ON CENTER
ONC. ——	CONCRETE	0.C. 0.F.W. —	ON CENTER OUTSIDE FACE OF WALL
	——— CONCRETE CONTROL JOINT		
ONC C.J. ——— ONC S.J. ———	——— CONCRETE SAWCUT JOINT	OPP	OPPOSITE
.M.U. —	CONCRETE MASONRY UNIT	P.C.	PRECAST CONCRETE
ONN —	CONNECTION	PLF —	POUNDS PER LINEAR FOOT
ONT. —	——— CONTINUOUS	PREFAB —	PREFABRICATED
EG ——	DEGREE	PSF —	POUNDS PER SQUARE FOOT
.L. ———	DEGREE DEAD LOAD	PSI —	POUNDS PER SQUARE INCH
OR DIA. ———		REINF —	REINFORCING
or dia. N ———	DIAMETER	RJ —	ROOF JOIST
	DOWN	RR —	ROOF RAFTER
WG(S) ——	DRAWING(S)	SLH —	SHORT LEG HORIZONTAL
.O.S. ———	EDGE OF SLAB	SLV —	SHORT LEG VERTICAL
Q	—— EQUAL	SIM —	SIMILAR
QUIP ——	EQUIPMENT	SQ.	SQUARE
AXP. BOLT ———	EXPANSION BOLT	STD —	STANDARD
XP. JT (E.J.) ———	EXPANSION JOINT	T.L.	TOTAL LOAD
.W. ——	EACH WAY	T.O.B. —	TOP OF BEAM
.F. ——	FINISHED FLOOR	T.O.D. —	TOP OF DECK
	—— FLOOR JOIST	T.O.F. —	TOP OF FOOTING
.O.M. —	FACE OF MEMBER	T.O.L. —	TOP OF LEDGER
O.S. ———	FACE OF STEEL	T.O.M. —	TOP OF MASONRY
O.W. —	FACE OF WALL	T.O.P. —	TOP OF PLATE
ERT —	VERTICAL	T.O.AS. —	TOP OF STEEL
V.W.F. ———	WELDED WIRE FABRIC	T.O.W. —	TOP OF WALL
V/	—— WITH	TYP —	TYPICAL
V/O —	WITHOUT	U.N.O. —	UNLESS NOTED OTHERWISE

ABBREVIATIONS





Agency Approvals

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Job Title

Job Address

36 LINE RD HAMETT COUNTY NC

October 25, 2024

Issued For

Job Number:

Drawn By: Checked By:

Scale N.T.S

0 2' 4' 8'

Sheet Title

GENERAL NOTES

Sheet No.

Shear Wall Schedule

Wall ID	Sheathing Material	Panel Nailing		Blk'g to Sill & top plate	Anchor Bolt		Bolt Edge Distance			Sill-Plate	Min. Blkg.	Special
		Edges	Fields	DBL plate connection	Spacing	Embedment			(lbs/ft)		Thk. below Sill-Plate	Inspection
2	1/2" PLY'D BLOCKED	8d @ 4" o.c.	8d @ 12" o.c.	A35 @ 36" o.c. to blk'g	5%" @ 36" o.c.	7"	1.75"	2"	255	16d common nail @ 6" o.c.	2x-2x	YES
(a)	15/32" PLY'D BLOCKED	8d @ 3" o.c.	8d @ 12" o.c.	A35 @ 36" o.c. to blk'g	1" @ 36" o.c.	10"	1.75"	2"	375	16d common nail @ 4" o.c.	2x-3x	YES
4	15/32" PLY'D STR-I	8d @ 2" o.c.	8d @ 12" o.c.	A35 @ 24" o.c. to blk'g	1" @ 24" o.c.	10"	1.75"	2"	475	20d common nail @ 4" o.c.	2x-3x	YES

- 1) This nailing schedule is for common nails only and all panels edges fastened to framing. Plywood can be installed either horizontally or vertically.
- 2) Shear Panels 3, 4 & 3-3 requires 3x framing members at the bottom sill plate when resting on concrete, and behind vertical or horizontal panel edges. Also minimum 1/2" edge nailing distance at panel ends and edges. * Framing at adjoining panel edges shall be nominal 3" or wider. nails shall be staggered in two lines along panel edges when nail spacing is 2" o.c., or when 10d common nails spaced 3" o.c. penetrate framing more than 1-5/8".
- 3) Use square plate washers min. $3'' \times 3'' \times 1/4''$ thk. for anchor bolts.

	Holdown Schedule									
MARK	HOLDOWN	END POST	UPLIFT CAPACITY	WALL ATTACHMENT	SILL/STEM ATTACHMENT	HOLDOWN DETAIL				
HDU2	HDU2	4x4 DF#2	2.3 kips	AS PER MANUFACTURER	5/8" DIA. ANCHOR BOLTS W/ 10" EMBEDMENT, SPL. INSPECTION REQD.	SEE DETAIL - 1/S1.3				
HDU5	HDU5	4x4 DF#2	4.2 kips	AS PER MANUFACTURER	5/8" DIA. ANCHOR BOLTS W/ 10" EMBEDMENT, SPL. INSPECTION REQD.	SEE DETAIL - 1/S1.3				

2500 PSI

NO

- 1. HOLDOWNS SHALL BE MANUFACTURED BY SIMPSON OR SHALL BE OF EQUIVALENT
- CAPACITY W/ A ICC ESR REPORTS.

WF-1 | 18" WIDE | 18"

- SEE "SHEAR WALL" SCHEDULE FOR SHEARWALL REQUIREMENTS AND DESIGNATIONS.
- REFER TO PLANS FOR HOLDOWN LOCATIONS. 4. USE HOLDOWNS AS PER CAPACITY GIVEN IN THE TABLE IF CHANGE IN SHEARWALL REQUIRED ON SITE.

		7.4	ALL BOOMING COURDING				
WALL FOOTING SCHEDULE							
MARK	SIZE	DEPTH	REINFORCEMENT	CONCRETE F'c	DEPUTY INSP.		

3-#4 TOP & BOTTOM.

		COI	LUMN FOOTING SCHEDULE		
MARK	SIZE	DEPTH	REINFORCEMENT	CONCRETE F'c	DEPUTY INSP.
F-1	24" x 93"	18"	#4 @ 6" O.C., EA. WAY TOP & BOTTOM.	2500 PSI	NO
F-2	24" x 177"	18"	#4 @ 6" O.C., EA. WAY TOP & BOTTOM.	2500 PSI	NO
F-3	54" x 54"	18"	#5 @ 6" O.C., EA. WAY TOP & BOTTOM.	2500 PSI	NO

		HDR	SCHEDULE		
MARK	SIZE	HDR SIZE	HDR POST	JAMB	HDR DETAIL
HDR - 1	UP TO 2'-6"	4x6 DF#2	4x4 DF#2	2-2x4 DF#2	REFER DETAIL-1/S1.3
HDR - 2	2'-6" TO 6'-6"	4x10 DF#2	4x4 DF#2	2-2x4 DF#2	REFER DETAIL-1/S1.3





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36 LINE RD HAMETT COUNTY NC

Checked By:

October 25, 2024 Date:

Issued For

Job Number:

Drawn By:

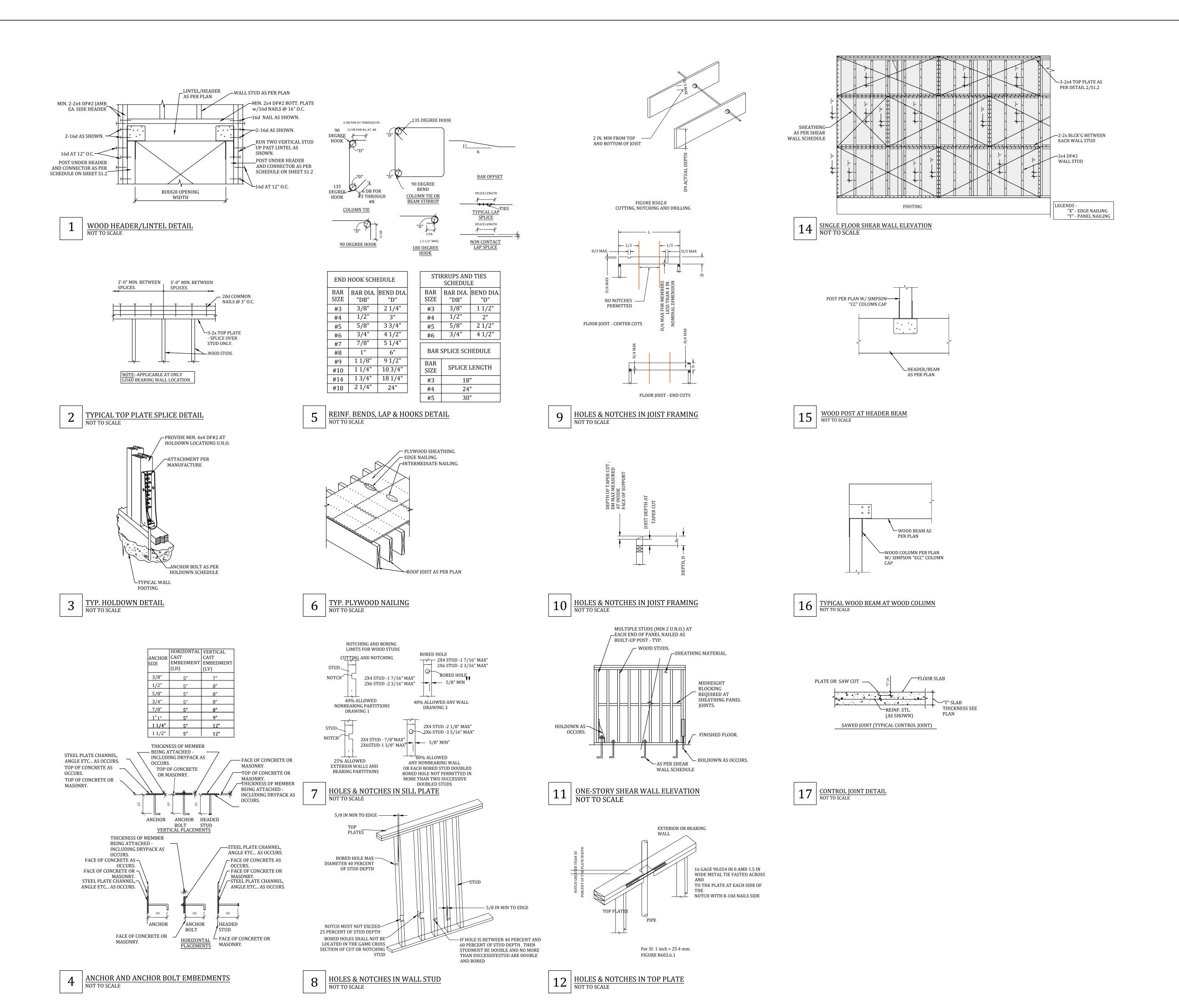
Scale N.T.S

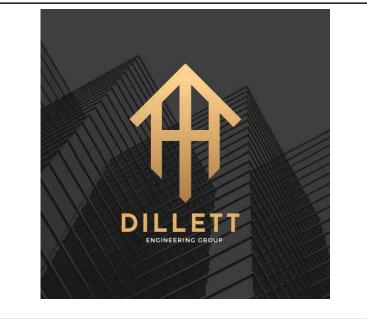
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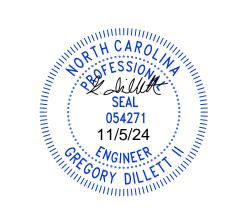
Sheet Title

SCHEDULES

Sheet No.







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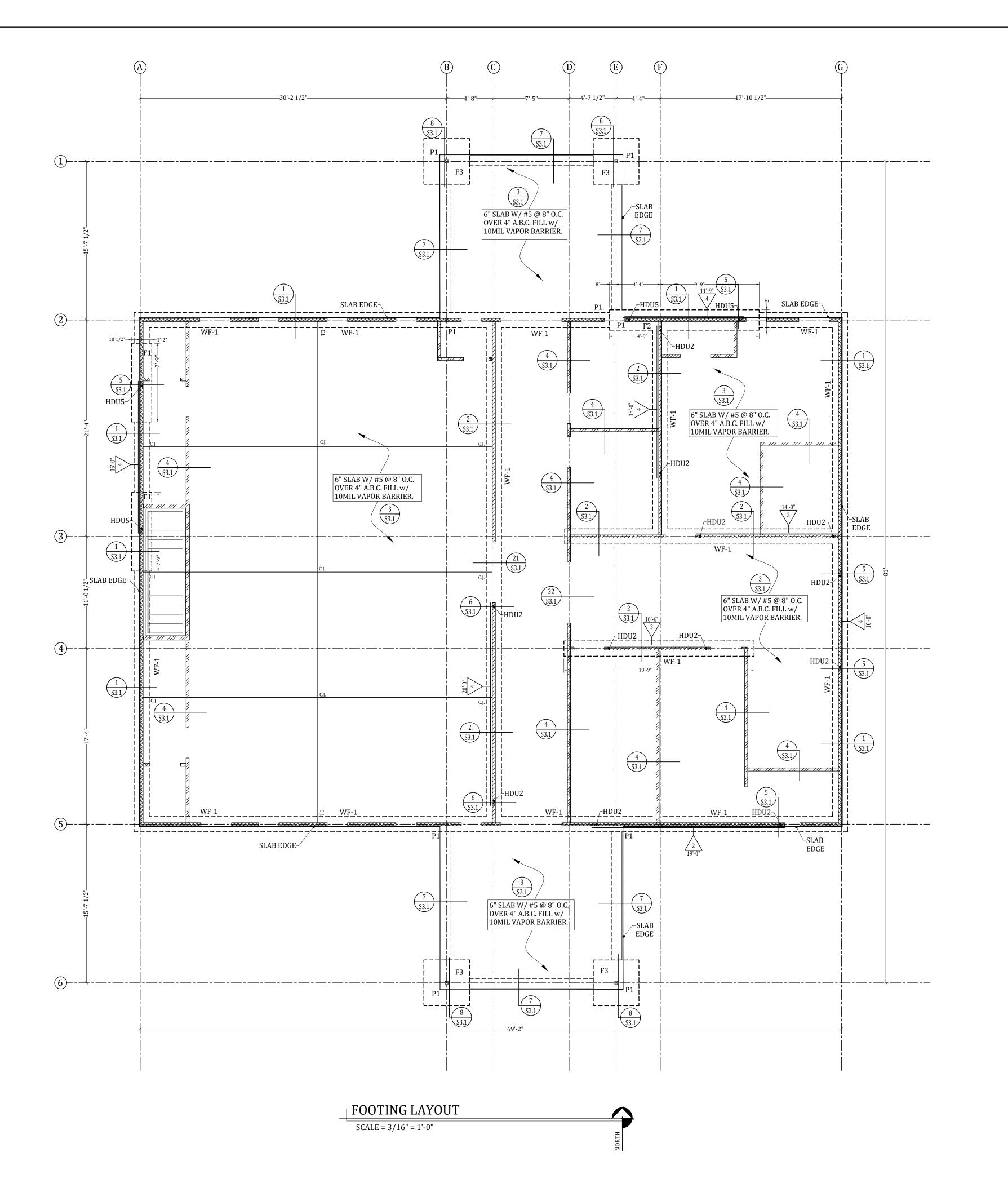
0 2' 4' 8'

Sheet Title

TYPICAL SECTION DETAILS

Sheet No.

\$1.3



FOUNDATION NOTES

- 1. ALL HOLDOWNS & ANCHOR BOLTS SHALL BE SET IN PLACE BY TEMPLATE PRIOR TO FOUNDATION INSPECTION.
- 2. ALL POSTS SHALL BE CONNECTED TO SILL PLATE WITH "A35" AT EA. SIDE TYP. UNLESS HARDWARE IS NOTED ON PLAN.
- UNLESS HARDWARE IS NOTED ON PLAN.
- 4. PLATE WASHERS ARE REQUIRED FOR ALL HOLDOWNS BRACKETS.
- 5. ALL BOLT HOLES SHALL BE DRILLED A MAXIMUM OF 1/16" OVERSIZED. INSPECTOR TO VERIFY.

3. ALL FOOTING SHALL HAVE F'c = 2500 PSI UNLESS NOTED OTHERWISE.

- 6. ALL HOLDOWN ANCHOR NUTS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING.
- 7. HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS.
- 8. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS IN ACCORDANCE AF&PA'S 2018 SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC (SDPWS-18)
- 9. FOUNDATION SILL SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD. FIELD-CUT ENDS, NOTCHES AND DRILLED HOLES OF PRESERVATIVE-TREATED WOOD SHALL BE FIELD-TREATED PER AWDA MA
- 10. CONTRACTOR TO VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL PLANS PRIOR TO STARTING ANY WORK.
- 11. ALL STUDS OVER 10 FEET TALL AND LESS THAN 15 FEET SHALL BE 2x4 OR 3x4
- 12. FASTENERS IN PRESERVATIVE TREATED WOOD OR FIRE RETARDANT TREATED WOOD SHALL BE OF HOT ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL

SYMBOL LEGEND

P1 🖂

WF#

P.T. $7\frac{1}{4}$ "x $7\frac{1}{4}$ " PSL-2.0E W/ POST BASE SIMPSON - MPB88Z 3x4 DF#2 AT 16" O.C. LOAD BEARING WOOD STUD WALL

2x4 DF#2 AT 16" O.C. LOAD BEARING WOOD STUD WALL

2x4 DF#2 AT 16" O.C. NON LOAD BEARING WOOD STUD WALL WALL FOOTING AS PER SCHEDULE ON SHEET S1.2
POST/COLUMN FOOTING AS PER SCHEDULE ON SHEET S1.2

SHOWING LOWER WALL



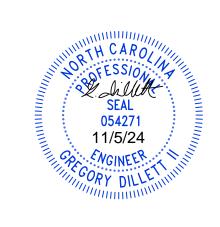
INDICATES SHEAR WALL; REFER SCHEDULE- ON SHEET S1.2

INDICATES SHEAR WALL ID.

U# HOLDOWN, REFER SCHEDULE- ON SHEET S1.2
R# HEADER, REFER SCHEDULE ON SHEET S1.2

C.J. CONTROL JOINTS





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36 LINE RD HAMETT COUNTY NC

Date: October 25, 2024

Issued For

Job Number:

Drawn By: Checked By:

Scale 3/16"=1'-0"

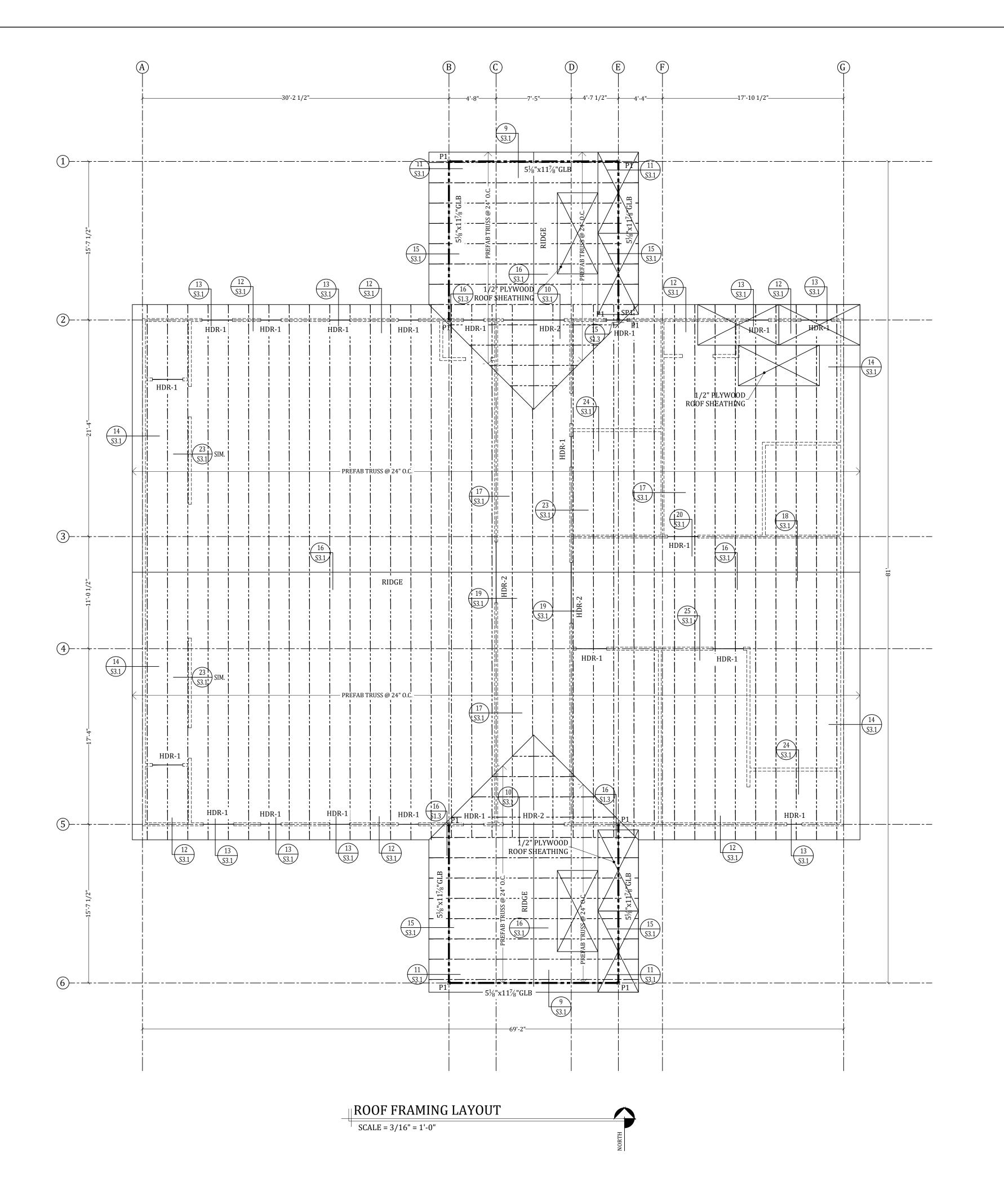
0 2' 4' 8'

Sheet Title

FOOTING LAYOUT PLAN

Sheet No.

S2.1



ROOF FRAMING NOTES

- 1. ROOF SHEATHING SHALL BE 1/2" PLYWOOD, CD-X P11 32/16, w/ 8d COMMON NAILS @ 6", 12" O.C.
- 2. ALL SHEAR WALLS ARE FULL HEIGHT TO THE ROOF AND FLOOR DIAPHRAGM.
- 3. ALL WALL POSTS ARE 4x4 MINIMUM U.N.O.
- 4. ALL POSTS SHALL BE CONNECTED TO SILL PLATE WITH "A35" AT EA. SIDE TYP. UNLESS HARDWARE IS NOTED ON PLAN.
- 5. ALL EXT. WALLS, SHEAR WALLS & BEARING WALLS EXCEEDING 10'-0" AND LESS THAN 15'-0" HEIGHT SHALL BE 2x6 OR 3x4 @ 16" O.C.
- 6. ALL WOOD BEAMS, COLUMNS & POST U.N.O. SHALL BE: 2x MEMBER D.F. #1

7. ALL WOOD JOISTS, STUDS, PLATES & RAFTERS U.N.O. SHALL BE:

4x MEMBER D.F. #1

2x STUDS D.F. #1, (U.N.O.).

 2x MEMBER
 D.F. #2

 4x MEMBER
 D.F. #2

 2x STUDS
 D.F. #2 ,(U.N.O.).

- 8. ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.
- 9. FASTENERS IN PRESERVATIVE TREATED WOOD OR FIRE RETARDANT TREATED WOOD SHALL BE OF HOT ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL.
- 10. ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. PLYWOOD SPANS SHALL CONFORM TABLE 2304.7

SYMBOL LEGEND

P.T. 7 ¼"x7¼" PSL-2.0E W/ POST BASE SIMPSON - MPB88Z

3x4 DF#2 AT 16" O.C. LOAD BEARING WOOD STUD WALL

2x4 DF#2 AT 16" O.C. LOAD BEARING WOOD STUD WALL

2x4 DF#2 AT 16" O.C. NON LOAD BEARING WOOD STUD WALL
WF# WALL FOOTING AS PER SCHEDULE ON SHEET S1.2
F# POST/COLUMN FOOTING AS PER SCHEDULE ON SHEET S1.2

SHOWING LOWER WALL

INDICATES SHEAR WALL; REFER SCHEDULE- ON SHEET S1.2

1 INDICATES SHEAR WALL ID.

HDU# HOLDOWN, REFER SCHEDULE- ON SHEET S1.2

HDR# HEADER, REFER SCHEDULE ON SHEET S1.2

.j. CONTROL JOINTS





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Drawn By: Checked By:

Scale 3/16"=1'-0"

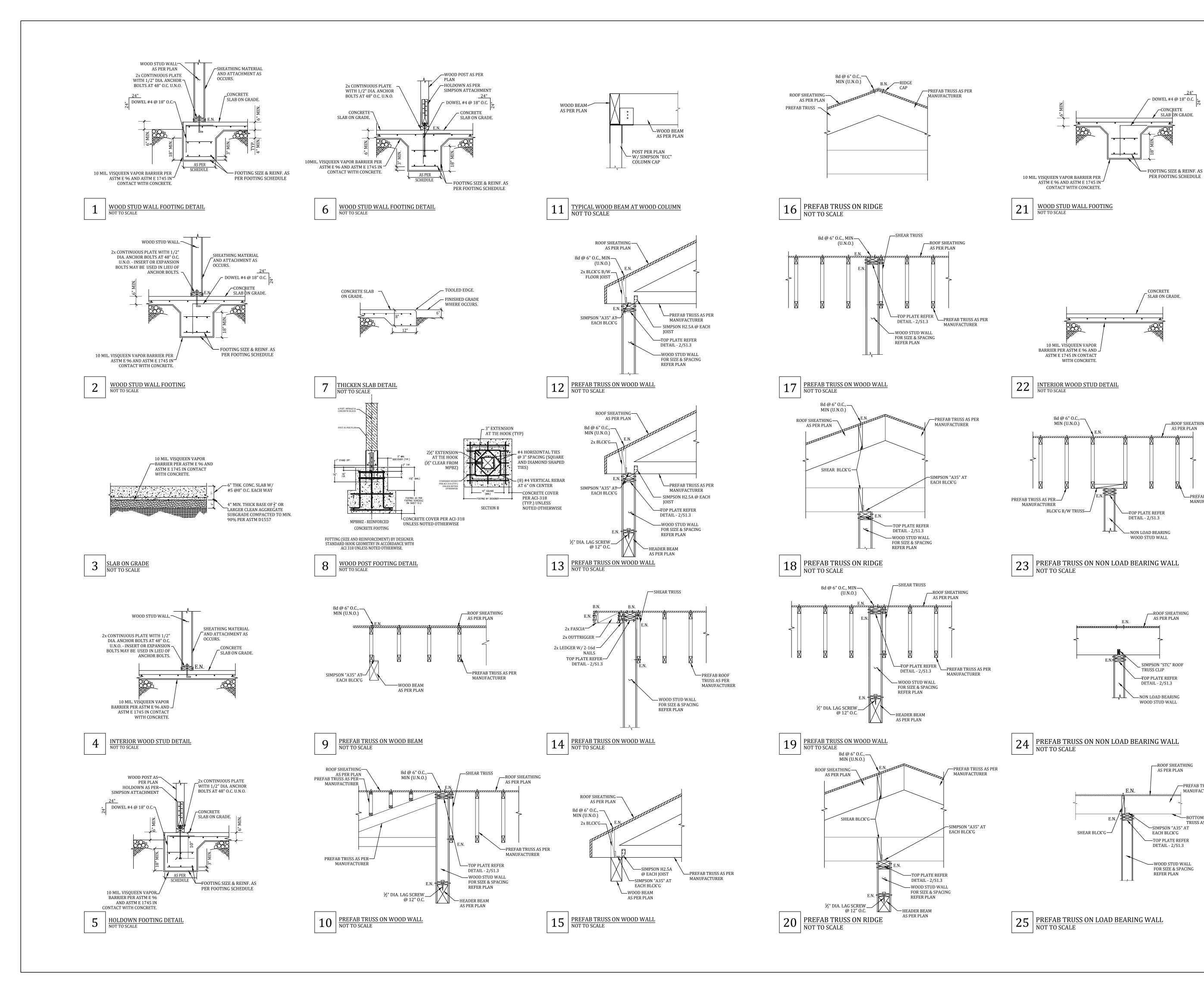
0 2' 4' 8'

Sheet Title

ROOF FRAMING LAYOUT PLAN

Sheet No.

S2.2







Agency Approvals

SLAB ON GRADE.

__ROOF SHEATHING

—PREFAB TRUSS AS PER

MANUFACTURER

—PREFAB TRUSS AS PER

—BOTTOM CHORD OF PREFAB

TRUSS AS PER MANUFACTURER

MANUFACTURER

AS PER PLAN

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Job Title

Job Address 36 LINE RD HAMETT **COUNTY NC**

October 25, 2024 Date:

Issued For

Job Number:

Drawn By:

Checked By:

Scale N.T.S

0 2' 4' 8'

Sheet Title

SECTION DETAILS

Sheet No.

CENEDAL ADDDEVIATIONS

	GENERAL AB	BRE	VIATIONS
Α	AMPERES	KVA	KILOVOLT AMPERES
ADA	AMERICANS WITH DISABILITIES ACT	KW	KILOWATTS
AF	AMPERE FRAME	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUI
AFG	ABOVE FINISHED GRADE	MC	METAL CLAD CABLE
AHJ	AUTHORITY HAVING JURISDICTION	MCB	MAIN CIRCUIT BREAKER
AHU	AIR HANDLING UNIT	MCC	MOTOR CONTROL CENTER
AIC	AMPERE INTERRUPTING CAPACITY	MCP	MOTOR CIRCUIT PROTECTOR
AL	ALUMINUM	MH	MOUNTING HEIGHT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MISC	MISCELLANEOUS
ARCH	ARCHITECT	MLO	MAIN LUGS ONLY
AT	AMPERE TRIP	MOCP	MAXIMUM OVERCURRENT PROTECTION
ATS	AUTOMATIC TRANSFER SWITCH	MTG	MOUNTING
ATC	AUTOMATIC TEMPERTURE CONTROL	N	NEUTRAL
AWG	AMERICAN WIRE GAUGE	NC	NORMALLY CLOSED
BFG	BELOW FINISH GRADE	NEC	NATIONAL ELECTRIC CODE
BLDG	BUILDING	NEMA	NATIONAL ELECTRICAL MANUFACTURES
С	CONDUIT		ASSOCIATION
CAT	CATALOG	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
СВ	CIRCUIT BREAKER	NFSS	NON-FUSED SAFETY SWITCH
СВМ	CERTIFIED BALLASTS MANUFACTURERS	NO	NORMALLY OPEN OR NUMBER
CKT	CIRCUIT	NTS	NOT TO SCALE
CL	CENTERLINE	Р	POLE
CLF	CURRENT LIMITING FUSE	PB	PUSHBUTTON
COL	COLUMN	PH	PHASE
CPT	CONTROL POWER TRANSFORMER	PNL	PANELBOARD
СТ	CVRRENT TRANSFORMER	POS	PROVIDED UNDER OTHER SECTIONS
CU	COPPER	PVC	POLYVINYL CHLORIDE
(D)	DEMOLITION	PWR	POWER
DWG	DRAWING	QTY	QUANITY
(E)	EXISTING	REQ'D	REQUIRED
(ER)	EXISTING TO REMAIN	RMC	RIGID METAL CONDUIT
EC	EMPTY CONDUIT	RMS	ROOT MEAN SQUARED
EF	EXHAUST FAN	RNMC	RIGID NON-METALLIC CONDUIT
EM	EMERGENCY	RTU	ROOF TOP UNIT
EMT	ELECTRICAL METALLIC TUBING	SP	SPARE
EP0	EMERGENCY POWER OFF	SW	SWITCH
ESB	ENERGY SAVING BALLAST	SYM	SYMMETRICAL
EWC	ELECTRIC WATER COOLER	TEL	TELEPHONE
F	FUSE	TMCB	THERMAL MAGNETIC CIRCUIT BREAKER
FA	FIRE ALARM	UG	UNDERGROUND OR UNDERGRADE
FB	FAN BOX	UL	UNDERWRITERS LABORATORIES
FLA	FULL LOAD AMPERES	UON	UNLESS OTHERWISE NOTED
FMC	FLEXIBLE METAL CONDUIT	V	VOLT
		VAV	VOLUME AIR TERMINAL BOX
FSS	FUSED SAFETY SWITCH	VT	VOLTAGE TRANSFORMER
FT	FEET	W	WIRE
GFI	GROUND FAULT INTERRUPTER	WH	WATER HEATER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF
GND,G	GROUND OR GROUNDING	XFMR	TRANSFORMER
GRMC	GALVANIZED RIGID METALLIC CONDUIT	\triangle	DELTA
HOA	HAND, OFF, AUTOMATIC SWITCH	\forall	WYE
HP	HORSEPOWER	Ø	PHASE
HPF	HIGH POWER FACTOR	.,	

LEGENDS RECESSED DOWNLIGHT RECESSED DOWNLIGHT (WET RATED) SEMI FLUSH LIGHTING FIXTURE PENDANT LIGHT VANITY LIGHT WALL LIGHTING FIXTURE 4' LED LINEAR LIGHT FIXTURE (CONTROLLED BY PULL CHAIN) LED FLOOR LIGHT CHANDELIER LIGHTING FIXTURE EMERGENCY LIGHT EXIT SIGN 125 VOLT, 2 POLE, 3 WIRE, 20 AMP., DUPLEX \Rightarrow RECEPTACLE. 125 VOLT, 2 POLE, 3 WIRE, 20 AMP., DOUBLE DUPLEX

125 VOLT, 2 POLE, 3 WIRE, 20 AMP., DUPLEX

125 VOLT, 2 POLE, 3 WIRE, 20 AMP., USB RECEPTACLE.

Subscript —

Symbol

RECEPTACLE.

Receptacle Subscripts:

"2" INDICATES CIRCUIT NUMBER

"GFCI" INDICATES RECEPTACLE EQUIPPED WITH

"AFCI" ARC-FAULT CIRCUIT INTERRUPTER

"WP" INDICATES WEATHERPROOF

"IG" ISOLATED GROUND

"C" COMPUTER

\$\$\$

CODES ANALYSIS

2018 INTERNATIONAL BUILDING CODE, IBC 2018 INTERNATIONAL RESIDENTIAL CODE, IRC

2018 INTERNATIONAL MECHANICAL CODE, IMC

2018 INTERNATIONAL ENERGY CONSERVATION CODE

2018 INTERNATIONAL PLUMBING CODE, IPC

2018 INTERNATIONAL FUEL GAS CODE, IFGC

2017 NATIONAL ELECTRIC CODE, NEC

INTERGRAL GROUND FAULT INTERRUPTER

INDICATES TYPICAL SWITCH

INDICATES DIMMER SWITCH

3-WAY DIMMER SWITCH

4-WAY DIMMER SWITCH

BATH-FAN TIMER SWITCH

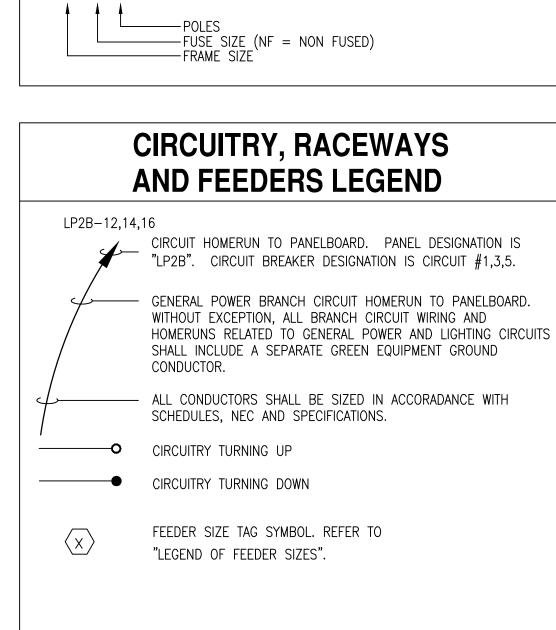
VACANCY SENSOR SWITCH

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

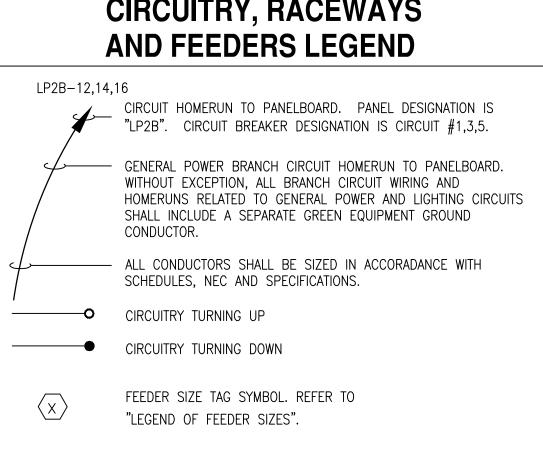
CEILING RECEPTACLE.

208/240 VOLT RECEPTACLE.

COMBINATION FIRE & CO DETECTOR



		EQUIPMENT LEGEND
	PANEL-H1	240/120 VOLT, 1ø, 3 WIRE PANEL
	PANEL-H2	208/120 VOLT, 3ø, 4 WIRE PANEL
	PANEL-H3	480/277 VOLT, 3ø, 4 WIRE PANEL
		JUNCTION AND/OR PULL BOX
	∕ M ∕	MOTOR
		EXHAUST FAN
	-=== <u></u>	GARAGE DOOR OPENER
		DISCONNECT SWITCH (FUSED); COORDINATE FUSE SIZE WITH MECHANICAL.
	OC	OCCUPANCY SENSOR
	4	TELEPHONE / DATA OUTLET
	HTV	TV OUTLET
	DB □—	DOOR BELL
		ELECTRICAL CABLE
	30/20/3	
	+ + +	



		LIGHTING FIX	TURE SCHEDULE			
TYPE	DESCRIPTION	MODEL NUMBER	MANUFACTURER	VOLT	LAMPS	NOTES
Α	6" LED RECESSED DOWN LIGHT	65BEMW LED 27K 90CRI M6	Lithonia Lighting	120	12W LED	6 Inch White Retrofit LED Recessed Downlight, 12W Dimmable with 2700K Warm White, 750 Lumens.
В	RECESSED DOWNLIGHT (WET RATED)	90933	Globe Electric	120	12W LED	Energy Star, IC Rated, Dimmable, Wet Rated, White Finish, 6.31" Hole Size, Bathroom Lights, 800 Lumens
СН	CHANDELIER LIGHTING FIXTURE	JYL9007A	JONATHAN Y	120	160W LED	20" 4-Light Crystal LED Chandelier, 420 lumen.
V	VANITY LIGHT	T030021-AL	Tubicen	120	10W LED	Modern Dimmable Bathroom Vanity Lights Linear, 10W 3000K LED Vanity Bar Lights, 750 Lumen
W	WALL MOUNTED LIGHT	OLW14 M2	Lithonia Lighting	120	18W LED	Adjustable LED Wall Mount, 1490 Lumens, Dimmable.
EM	LED EMERGENCY UNIT	LED90	EXITRONIX	120	2.2W	250 lumens, Ultra bright 6000K SMD LEDs,
EX1	LED EXIT SIGN	VLED-U-WH-EL90R	EXITRONIX	120	3.2W	Double Face LED Combination Exit Sign - LED Lamp Heads - Self Testing - Red Letters -

GENERAL NOTES

. ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE.

ISOLATED GROUND

INTERMEDIATE METAL CONDUIT

ENGINEERS

INTERLOCK KELVIN

KCMIL THOUSAND CIRCULAR MILS

INSTITUTE OF ELECTRICAL AND ELECTRONIC

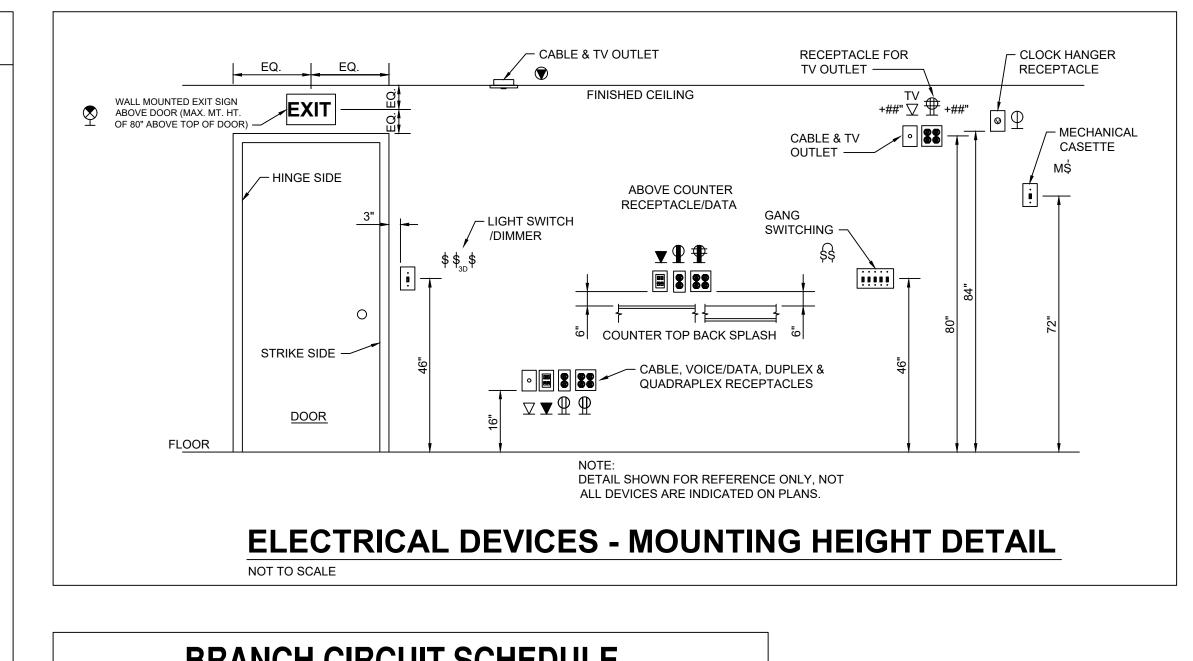
2. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING

NUMBER

- . ALL COMPONENTS SHOWN ON THE RISER DIAGRAMS, BUT NOT ON THE PLANS OR VICE VERSA, SHALL BE INCLUDED AS IF SHOWN ON BOTH.
- EXACT LOCATION OF MECHANICAL EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL DRAWINGS.

CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS

- FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES. IF DISCREPANCIES OCCUR, CONTRACTOR MUST NOTIFY ARCHITECT.
- BRANCH CIRCUIT WIRING MAY NOT BE SHOWN GRAPHICALLY ON DRAWINGS AND MAY BE INDICATED BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT INDICATED GRAPHICALLY. PHASE BALANCE ALL PANELBOARDS IN THE FIELD.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. THE DRAWINGS ARE NOT INTENDED TO BE ABSOLUTELY PRECISE. THE DRAWINGS ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, JUNCTION BOX, FITTING AND COMPONENT. THE PURPOSE OF THE DRAWINGS IS TO INDICATE A SYSTEMS CONCEPT, THE MAIN COMPONENTS OF THE SYSTEM AND THE APPROXIMATE GEOMETRICAL RELATIONSHIP. BASED ON THE SYSTEMS CONCEPT, THE MAIN COMPONENTS AND THE APPROXIMATE GEOMETRICAL RELATIONSHIPS, THE CONTRACTOR SHALL PROVIDE ALL OTHER COMPONENTS AND MATERIALS NECESSARY TO MAKE THE SYSTEMS FULLY COMPLETE AND OPERATIONAL.
- 10. ALL SYMBOLS MAY NOT BE USED IN THIS DRAWING.



BRANCH CIRCUIT SCHEDULE									
CIRCUIT TYPE	CIRCUIT BREAKER	CONDUCTORS	CONDUIT						
	20A-1P	2 #12 + 1 #12 G.	3/4"						
1 DOLE 1 DHASE	30A-1P	2 #10 + 1 #10 G.	3/4"						
1 POLE - 1 PHASE 2 WIRE + GROUND	40A-1P	2 #8 + 1 #10 G.	3/4"						
2 WITE + GITCOND	50A-1P	2 #6 + 1 #10 G.	3/4"						
	60A-1P	2 #4 + 1 #10 G.	1 1/4"						
	20A-2P	2 #12 + 1 #12 G.	3/4"						
A DOLE 1 DUACE	30A-2P	2 #10 + 1 #10 G.	3/4"						
2 POLE - 1 PHASE 2 WIRE + GROUND	40A-2P	2 #8 + 1 #10 G.	3/4"						
2 WINE + GROOND	50A-2P	2 #6 + 1 #10 G.	3/4"						
	60A-2P	2 #4 + 1 #10 G.	1 1/4"						
	20A-2P	3 #12 + 1 #12 G.	3/4"						
A DOLE 1 DUACE	30A-2P	3 #10 + 1 #10 G.	3/4"						
2 POLE - 1 PHASE 3 WIRE + GROUND	40A-2P	3 #8 + 1 #10 G.	3/4"						
5 WINE + GROUND	50A-2P	3 #6 + 1 #10 G.	3/4"						
	60A-2P	3 #4 + 1 #10 G.	1 1/4"						

Schedule Notes:

- 1. ROMEX CABLE SHALL BE USED FOR WIRING. SIZES AS INDICATED IN SCHEDULE.
- 2. REFER TO FEEDER SCHEDULE ON ELECTRICAL POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 3. ALL CONDUCTER SIZES ARE BASED ON CONDUIT LENGTHS OF 60 FEET FOR 120 VOLT BRANCH CIRCUITS. IF LENGTH EXCEEDS 60 FEET (120V, 20A CIRCUITS), THEN USE WIRE SIZE DENOTED BELOW AND INCREASE CONDUIT SIZE AS REQUIRED BY NEC.
- 4. TREAT 15A CIRCUIT SIMILAR TO 20A CIRCUIT AND 25A CIRCUIT SIMILAR TO 30A CIRCUIT.

WIDE CIZE	CIRCUIT LENGTH	
WIRE SIZE	120V CIRCUIT	240V CIRCUIT
#10	60' TO 120'	150' TO 240'
#8	120' TO 180'	ABOVE 240'
#6	180' AND ABOVE	_



PROJECT Rock of Salvation Church

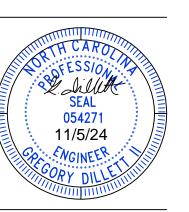
36 Line Rd,

PROJECT

Harnett County,NC TOWN, STATE 10.30.2024

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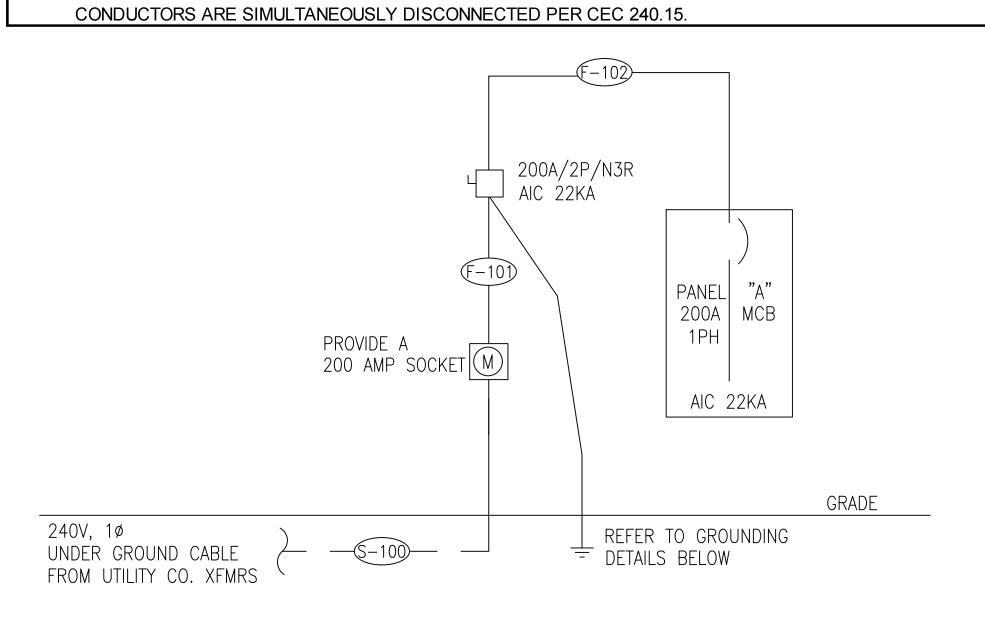
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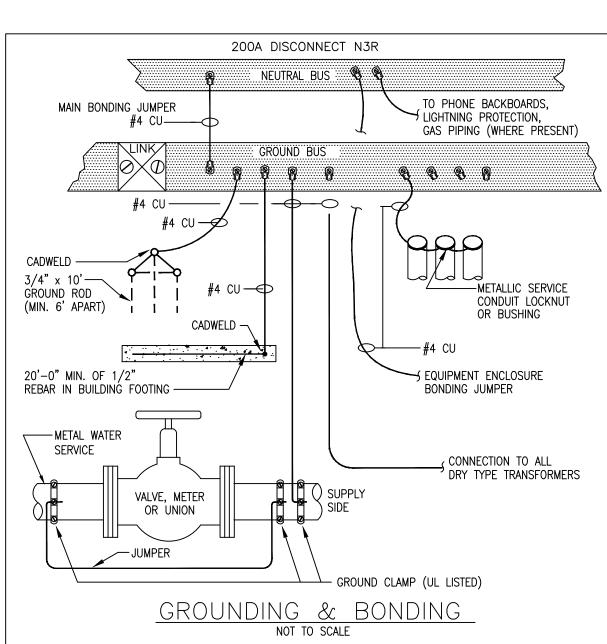


ELECTRICAL COVER SHEET

SCALE: AS SHOWN

						PAN	1EL	.BO	AR	D S	CH	EDL	JLE	- "A	\''					
	MAIN:	200A MCB	TOTA	L FRES	SH MA	RKET	AREA	`	VOL	ΓAGE:	240/1	20	PHA	SE: 1	WIR	E: 3	MOUN	TING: SURFACE AIC:	22,000	
CKT	TRIP				LO	AD (KV	/A)			PHASE			L(DAD (K	VA)				TRIP	CK
#	POLE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	АВ	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	POLE	#
1	20/1	LIGHTING_SANCTUARY AREA	0.4									1.3						REC_SANCTUARY AREA	20/1	2
3	20/1	LIGHTING_SANCTUARY AREA	0.4									1.3						REC_SANCTUARY AREA	20/1	4
5	20/1	LIGHTING_SANCTUARY AREA	0.4									1.3						REC_SANCTUARY AREA	20/1	6
7	20/1	LIGHTING_FOYER+EXTERIOR+HALL	0.4									1.1						REC_FOYER AREA	20/1	8
9	20/1	LIGHTING_OFFICES+CLASS RMS+TOILE	0.4									1.4						REC_CLASSROOM-1 & 2	20/1	10
11	20/1	LIGHTING_FRESH MARKET OPEN AREA	0.4									1.4						REC_CHIEF'S+PASTOR'S OFFICE	20/1	12
13	70/1	SMOKE ALARM+CARBON MONOXIDE ALARM							0.2			1.4						REC_FELLOWSHIP HALL+SECRETA	R 20/1	14
15	20/2	AIR HANDLING UNIT, AHU-1				0.5						0.9						REC_GFI_BATHROOMS	20/1	16
17	20/2	(2#12, #12G, 3/4"C)				0.5						0.7						REC_GFI_KITCHEN	20/1	18
19	50/2	HEATPUMP UNIT, HP-1				2.5						1.1						REC_GFI / WP_EXTERIOR	20/1	20
21	50/2	(2#6, #10G, 3/4"C)				2.5										0.8		REFRIGERATOR	20/1	22
23 25	20/2	AIR HANDLING UNIT, AHU-2				0.5										1.0		MICROWAVE OVEN	20/1	24
25	20/2	(2#12, #12G, 3/4"C)				0.5										0.6		GARBAGE DISPOSAL	20/1	26
27	F0/0	HEATPUMP UNIT, HP-2				2.5										1.5		SMALL APPLIANCE	20/1	28
29	50/2	(2#6, #10G, 3/4"C)				2.5										2.5		RANGE	40/0	30
31	00/0	AIR HANDLING UNIT, AHU-3				0.5										2.5		(2#8, #10G, 3/4"C)	40/2	32
33	20/2	(2#12, #12G, 3/4"C)				0.5							0.5					KITCHEN HOOD, KH-1	20/1	34
35		HEATPUMP UNIT, HP-3				2.5									2.3		+	WATER HEATER, WH-1		36
37	50/2	(2#6, #10G, 3/4"C)				2.5									2.3			(2#10, #10G, 3/4"C)	30/2	38
39	20/1	TOILET EXHAUST FAN, TEF-1		1	0.2	2.0									2.0		0.5	DRINKING FOUNTAIN	20/1	40
41		TOILET EXHAUST FAN, TEF-2			0.3													DRINKING FOUNTAIN	20/1	42
	ING (K	·	2.4	0.0		18.0	0.0	0.0	0.2		0.0	11.8	0.5	0.0	4.5	8.9	†	CONNECTED LOAD (KVA):		7.8
		ES (KVA): 11.8		1 0.0	1 0.0	10.0	0.0	10.0	0.2		0.0	111.0	10.0	0.0	1.0	1 0.0	1.0	DEMAND LOAD (KVA):		4.7
	RS (K\							PHAS	SF A	23.9	10	9.1						DEIVINITED CONTROL (TOTAL).	<u> </u>	1.,
VIC (F		18.0						PHAS		23.9	+	9.3						CONNECTED LOAD (AMPS):	10	9.2
	NG (K\							1 1 1/70		KVA	+	<u>и</u> РЅ						DEMAND LOAD (AMPS):		6.1
	ING (K) IEN (K)	,								NVA	<u> ^\ </u>	VII J	1					DEIVININD LOAD (AIVIF 3).	10	U. I
		EOUS (KVA): 6.9 1.2																AMPACITY REQUIRED:	18	4 .9
		VIDE FEED THRU LUG KIT(S).																, wii , wii i ile woll leb.	10	r. U





ELECTRICAL ONE-LINE DIAGRAM NOT TO SCALE

	SCHED	ULE	OF F	EEDE	ERS	& SI	ERVIC	CES	
	Feeder/Service I	Description		Number of	C	Conductor Siz	e	Conduit	Calculated
Designation	Equipment Served	Conductor	Copper or	Runs	Phase	Neutral	Equipment	Diameter	Fault Value
Designation	Equipment Served	Ampacity	Aluminum	Kulis	Conductor	Conductor	Ground	(in)	rault value
S 1 00	MAIN METER	200	CU	1 set	2 # 3/0	1 # 3/0	_	2 1/2	14,430
F 1 01	DISCONNECT	200	CU	1 set	2 # 3/0	1 # 3/0	1 # 4	2 1/2	13,195
F 1 02	PANEL-A	200	CU	1 set	2 # 3/0	1 # 3/0	1 # 4	2 1/2	12,155
KEY: "CU	" - COPPER "AL" -	ALUMINUM				_	_		
NOTES: CC	PPER OR ALUMINUN	A REFERS TO A	ALL CONDUCTO	ORS (PHASE,	NEUTRAL, AN	ND GROUND)			

	VOLT	'AGE	DR	ROP	CAI	LCU	LAT	ION	
	Feeder/Service Desc	ription				V	oltage D	rop	
Designation	Equipment Served	Conductor	Length	Voltage	Phase	Ampacity	Point to	Fed From	Cumulativo
Designation	Equipment Served	Ampacity	of run	vollage	Filase	Required	Point	rea From	Cumulative
S 1 00	MAIN METER	200	76	240	1	200	1.09%	Service	1.09%
F 1 01	DISCONNECT	200	10	240	1	200	0.15%	MAIN METER	1.24%
F 1 02	PANEL-A	200	10	240	1	200	0.15%	DISCONNECT	1.40%

ELECTRICAL LOAD CALCULATIONS (RESIDI	LIVII <i>I</i> ~L)	
	UNIT	FLOOR
Α	REA (SQFT)	3,370
RESIDENTIAL LOAD - TABLE		
GENERAL LIGHTING (3W/SF)		10,110
LIGHTING AND APPLIANCES LOAD TOTAL		10,110
WATER HEATER		4,500
RANGE		5,000
REFRIGERATOR		800
MICROWAVE		1000
KITCHEN HOOD FAN		500
TOILET EXHAUST FAN		500
GARBAGE DISPOSAL		600
SMALL APPLIANCE		1500
DRINKING FOUNTAIN		1000
SMOKE DETECTOR+CARBON MONOXIDE ALARM		200
SUBTOTAL- LIGHTING LOAD + APPLIANCE LOAD TOTAL		25,710
DEMAND FACTOR LOAD		
TOTAL DEMAND LOAD 100% (PER NEC SECTION	220.82(b))	25,710
	EQUIP-1	AHU-1 & HP-1
	VA LOAD	6000
	EQUIP-2	AHU-2 & HP-2
MECHANICAL LOADS	VA LOAD	6000
	EQUIP-2	AHU-3 & HP-3
	VA LOAD	6000
TOTAL MECHANICAL LOAD		18,000
TOTAL UNIT LOADS W/O DEMAND FACTOR (DEMAND LOAD + MECHAN	ICAL LOAD)	43,710
TOTAL UNIT LOADS W/O DEMAND FACTOR (DEMAND LOAD + MECHAN	-	43,710
AMPS @120/24		182
RECOMMENDED PANEL LO	, ,	200

Kevin Cole and Associate
ESIGN CONSULTANT &

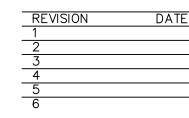
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PROJECT Rock of Salvation Church

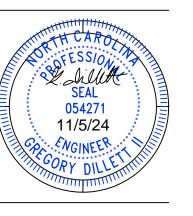
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TOWN, STATE

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PROJECT –
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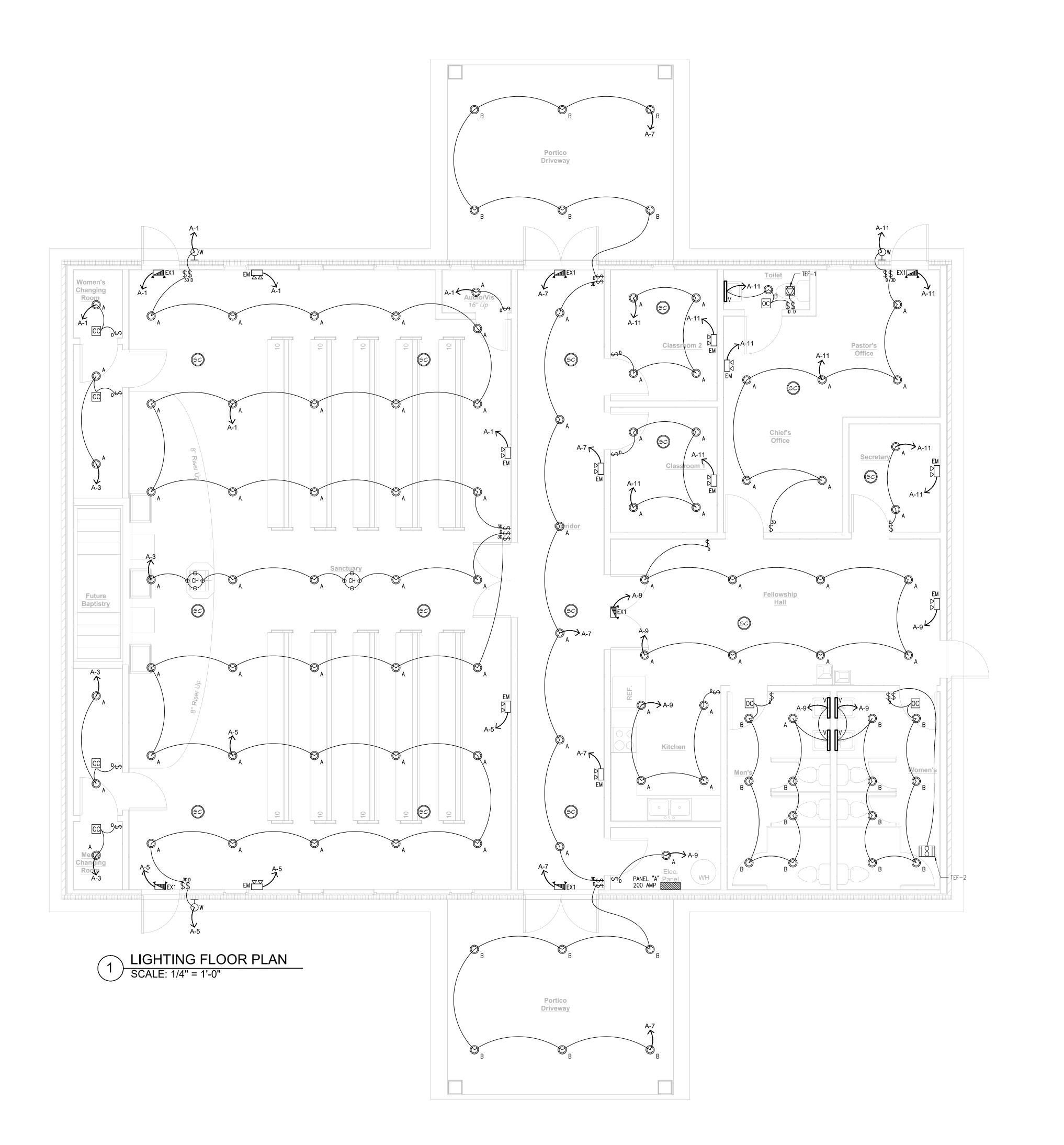
ARCHITECT OF RECORD:



ELECTRICAL
PANEL
SCHEDULE,
CALCULATION
& SINGLE LINE
DIAGRAM

SCALE: AS SHOWN

-2.01



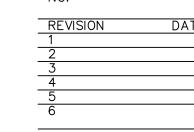


PROJECT
Rock of Salvation
Church

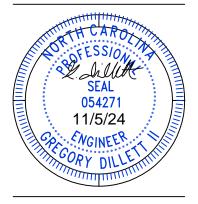
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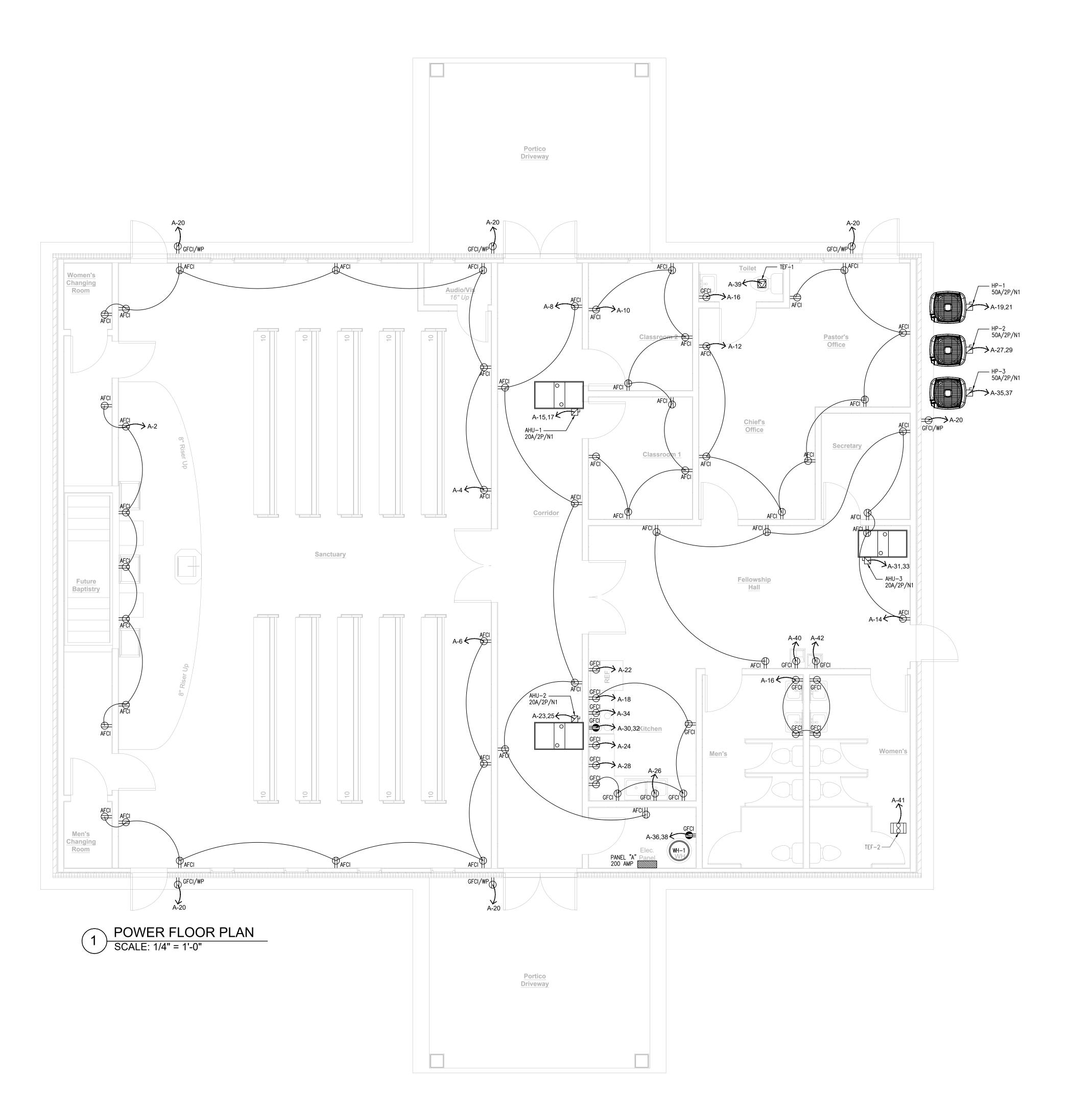
ARCHITECT OF RECORD:



ELECTRICAL PLANS

SCALE: AS SHOWN

E3.01



Kevin Cole and Associate
DESIGN CONSULTANT &
CONSTRUCTION MANAGEMENT

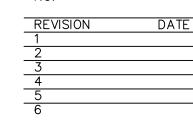
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ARCHITECT OF RECORD:



ELECTRICAL PLANS

ALL BRANCH CIRCUITS SUPPLYING 120V 15-AMPERE AND 20-AMPERE OUTLETS IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS

AND SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY

A LISTED ARC-FAULT CIRCUIT INTERRUPTER (AFCI).

ALL RECEPTACLES IN BATHROOMS, GARAGES,

PROTECTION AS PER THE 2017 NEC.

THROUGHOUT AS PER THE 2017 NEC.

ACCESSORY BUILDINGS, OUTDOORS, CRAWL SPACES, UNFINISHED BASEMENTS, KITCHENS (WHERE RECEPTACLES

SERVE COUNTERTOP SURFACES), LAUNDRY, UTILITY, WET BAR SINKS (WITHIN 6' OF THE EDGE OF THE SINK), SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI)

THE RECEPTACLES ARE REQUIRED TO BE GROUND FAULT CIRCUIT INTERRUPTER, ARC-FAULT AND TAMPER RESISTANT

SCALE: AS SHOWN

E4.01

		MECHANICA	L LEGEND		
SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
Ē		COORDINATE WITH ELECTRICAL	 		LINED DUCTWORK (OR PLENUM)
CD	CD	CONDENSATE DRAIN (A.C)			DUCT RISE IN DIRECTION OF FLOW
D	D	DRAIN			
———RD ———	RD	REFRIGERANT DISCHARGE	DN		DUCT DROP IN DIRECTION OF FLOW
——————————————————————————————————————	RL RS	REFRIGERANT LIQUID REFRIGERANT SUCTION			ROUND DUCT UP
	1.5	PIPE DOWN			ROUND DUCT DOWN
		PIPE UP			SUPPLY DUCT UP
		PIPE RISE (OR DN. FOR DROP)			SUPPLY DUCT DOWN
 		DIRECTION OF FLOW IN PIPE		RA/OA	RETURN AIR DUCT/OUTSIDE AIR DUCT UP
-					RETURN AIR DUCT/OUTSIDE AIR DUCT DOWN
	AV	AIR VENT (VALVE)			EXHAUST AIR DUCT UP
	CHV	CHECK VALVE			EXHAUST AIR DUCT DOWN
	CV (2W)	CONTROL VALVE (2—WAY)			
	CV (3W)	CONTROL VALVE (3-WAY)			DUCT TRANSITION
	FCD SOV	AUTOMATIC FLOW CONTROL DEVICE SHUT OFF VALVE		CD	CEILING DIFFUSER
	301	GLOBE/BALL/BUTTERFLY VALVE		RR	RETURN REGISTER
——————————————————————————————————————	BV	COMBINATION BALANCING & SHUT-OFF VALVE		ER	EXHAUST REGISTER
── ₩──	FEV	FLOW ELEMENT VENTURI	① AC-3	T'STAT	THERMOSTAT OR TEMPERATURE SENSOR (NUMBER INDICATES EQUIPMENTOR ZONE SERVED)
₺ — ₺ —		VALVE ON RISE OR DROP	\blacksquare	H'STAT	HUMIDISTAT
	STR.	STRAINER	©2		CARBON DIOXIDE SENSOR
E	CL	CAPPED LINE	¢	CFM	CUBIC FEET PER MINUTE
C— — — — —	DN.	DOWN OR DROP			4-WAY SUPPLY AIR DIFFUSER
0— 1 0—	UP	RISE OR RISER			
<u> </u>	RV	PRESSURE RELIEF VALVE			4-WAY RETURN AIR GRILLE
	PG	PRESSURE GAUGE WITH BALL VALVE			SUPPLY AIR DIFFUSER W/
	R.	ECCENTRIC REDUCER CONCENTRIC REDUCER			SURFACE MOUNT SUPPLY AIR DIFFUSER
	R. FC	FLEXIBLE CONNECTION (PIPE)			
NA N		PIPE ANCHOR			SURFACE MOUNT RETURN AIR GRILLE
	PA U	UNION			SUPPLY AIR SIDEWALL DIFFUSER
10x6		DUCTWORK (1ST NUMBER INDICATES WIDTH SHOWN), NET INSIDE DIMENSION			RETURN AIR SIDEWALL GRILLE
	TV	SQUARE ELBOW WITH TURNING VANES			VOLUME CONTROL DAMPER
		RADIUS ELBOW			SUPPLY/EXHAUST AIR FAN
	MVD	MANUAL VOLUME DAMPER			DUCT PLENUM BOX
	MOD	MOTOR OPERATED DAMPER			
	BDD	BACKDRAFT DAMPER	Ū- √-		DOOR LOUVER
FD	FD	FIRE DAMPER	◎ ~~		UNDER CUT
	SD	DUCT MOUNTED SMOKE DETECTOR			INTAKE/ EGRESS
SD SFD•	SFD	AUTOMATIC SMOKE AND FIRE DAMPER			
	FLEX	FLEXIBLE CONNECTION (DUCTWORK)	\bigoplus		DUCT HEATER
	FLEX	FLEXIBLE CONNECTION OR SEISMIC JOINT			WASHROOM VENTILATOR

	MECHANICAL SPECIFICATIONS										
NO	DESCRIPTION										
NO.	DESCRIPTION										
A)	AIR CONDITIONING SPECIFICATION										
	DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED FOR THE EXACT LOCATION OF EQUIPMENT, PIPING, DUCTWORK, OR OTHER ITEMS. DRAWINGS DO NOT SHOW EVERY DETAIL OF CONSTRUCTION OR INSTALLATION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.										
3.	ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS, WORKMAN-LIKE MANNER. THE COMPLETED SYSTEM SHALL BE OPERATIVE AND ACCEPTANCE BY ENGINEER/ARCHITECT SHALL BE A CONDITION OF THE SUB-CONTRACT.										
4.	THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTS.										
5.	THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL ASPECTS OF THE PROJECT AND SHALL VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION.										
	ALL INSTALLATION SHALL BE COORDINATED BY THE CONTRACTOR WITH OTHER TRADES TO AVOID IMPACTS.										
7.	ALL REQUIRED CONSTRUCTION INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR.										
8.	ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, AND ORDINANCES.										
	THE CODES IN EFFECT FOR THIS PROJECT SHALL THE 2018 EDITION OF IBC WITH REVISIONS AND ALL ASSOCIATED INDUSTRY CODES BY REFRENCE.										
	ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITERS LABEL WHERE APPLICABLE.										
	EQUIPMENT SHALL BE U.L. APPROVED.										
11.	THE MECHANICAL CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY THAT SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF FINAL WORK ACCEPTANCE BY THE OWNER OR OWNERS REPRESENTITIVE.										
12.	ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED FOLLOWING THE ISSUE OF APPROVED DRAWINGS SHALL BE PAIFOR BY THE CONTRACTOR.										
B)	INSTALLATION										
1.	THE MECHANICAL CONTRACTOR SHALL PROVIDE HVAC EQUIPMENT LISTED IN THE HVAC EQUIPMENT SCHEDULE AND SHALL MEET THE CAPACITIES NOTED.										
2.	THE MECHANICAL CONTRACTOR SHALL SUBMIT MANUFACTURER SHOP DRAWINGS, CUT SHEETS AND PERFORMANCE DATA ON ALL EQUIPMENT AND OBTAIN THE ENGINEER'S APPROVAL PRIC TO PURCHASE AND INSTALLATION.										
3.	THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MOTOR STARTERS, RELAYS, CONTRACTORS, SMOKE DUCT DETECTORS, ETC.										
4.	THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL SWITCHES AND INSTALL ALL CONTROL WIRING.										
5.	A/C UNIT SUPPLY AND RETURN AIR DUCTS SHALL BE R-6 JOHNS MANVILLE MAT-FACED MICRO-AIRE FIBERGLASS DUCT BOARD, TYPE 800 (UL APPROVED), INSTALLED PER MANUFACTURER'S INSTRUCTIONS.										
6.	ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED TO S.M.A.C.N.A. STANDARDS. ALL DUCTWORK SIZES ARE INSIDE DIMENSIONS.										
a)	ALL 90 DEGREE ELBOWS SHALL BE HAVE A MINIMUM CL RADIUS OF 1.5 R/W (1.5 R/D) OR BE FURNISHED WITH TURNING VANES.										
b)	BRANCH TAKEOFFS SHALL BE PROVIDED WITH ADJUSTABLE, ACCESSIBLE AIR SPLITTER DAMPERS.										
c)	ROUND DUCT ELBOWS SHALL HAVE A CENTERLINE RADIUS OF NOT LESS THAN 1.5 TIMES THE DIAMETER OF THE DUCT.										
7.	SECURE FLEXIBLE DUCTS TO BRANCH TAKE-OFF COLLAR WITH HOSE CLAMP.										
	MAXIMUM LENGTH OF ALL FLEXIBLE DUCT SHALL NOT BE MORE THAN 10 FEET, UNLESS OTHERWISE NOTED.										
	ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE MIN. 24GA GALVANIZED SHEET METAL. ALL DUCT ABOVE THE ROOF TO BE MIN. 16GA SHEET METAL, INSULATED W/ 2?THK RIGID HULL BOARD AND SHEATHED WITH GALV. STEEL. EXTERIOR STEEL TO BE SEALED/WEATHERPROOFED, PRIMED AND PAINTED PER ARCHITECTURAL PAINT SCHEDULE.										
11.	THE MECHANICAL CONTRACTOR SHALL INSTALL SMOKE DUCT DETECTORS IN THE RETURN DUCT OF ALL A/C UNITS EXCEEDING 2000 CFM. SMOKE DETECTOR SHALL BE INTERLOCKED VIAHU CONTROLS.										
12.	AIR DISTRIBUTION ACCESSORIES SHALL BE AS NOTED ON THE PLANS.										
	REFRIGERANT PIPING SHALL BE TYPE "K" COPPER WITH SOLDER FITTINGS.										
	ALL REFRIGERATION PIPE INSULATION SHALL BE MIN. ½?ARMAFLEX OR EQUAL APPROVED BY THE ENGINEER.										
,	ALL EXTERIOR LIQUID/SUCTION LINES SHALL BE INSULATED AND WEATHER PROOFED. ALL SUCTION LINES INSIDE THE BUILDING SHALL BE INSULATED.										
•	LIQUID/SUCTION LINES SHALL BE ROUTED INSIDE THE STRUCTURE TO THE EXTENT PRACTICABLE.										
d)	THE MECHANICAL CONTRACTOR SHALL SIZE ALL PIPING FOR THE SPECIFIC APPLICATION AND ROUTE OF PIPE.										
,	THE MECHANICAL CONTRACTOR SHALL ROUTE CONDENSATE PIPING FOR A LENGTH OF 10 FEET TO A DRAIN SUPPLIED BY THE PLUMBING CONTRACTOR. THE MECHANICAL CONTRACTOR'S CONDENSATE PIPE SHALL INCLUDE A TRAP SIZED FOR AHU FAN STATIC.										
15.	THE MECHANICAL CONTRACTOR SHALL SET AIR HANDLER UNIT AND CONDENSING UNIT AS SHOWN ON THE DRAWINGS. EQUIPMENT SHALL BE PROVIDED DIM PAD ISOLATORS.										
	THE MESTALIST SECTION STATE SET AND TRANSPORT OF THE STATE STATE SET AND SOCIETIONS.										

16. ALL OUTDOOR AIR INTAKES SHALL BE PROVIDED WITH BIRD AND INSECT SCREEN OF A CORROSION-RESISTANT MATERIAL. BIRD SCREEN SHALL NOT BE LARGER THAN 1/2" MESH AND

18. FIRE DAMPERS SHALL BE INSTALLED IN ALL DUCTS PENETRATING FIRE RATED ROOFS, CEILINGS AND BULKHEADS AS BY CODE. ACCESS DOORS FOR INSPECTION AND RESET SHALL BE

CORRECTION OF ANY ENGINEERING DEFECT SHALL BE RECTIFIED WITHOUT ADDITIONAL CHARGE AND SHALL NOT INCLUDE REPLACEMENTS OR REPAIR OF ANY OTHER PHASE OF THE

INSECT SCREEN SHALL NOT BE LARGER THAN 18X14.

INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREBY.

CONTRACTOR SHALL ADJUST, TEST AND BALANCE ALL SYSTEMS.

a) BALANCING OF THE SYSTEM SHALL BE BY A CERIFIED THIRD PARTY.

PROVIDED AT EACH LOCATION.

17. THERMOSTATS SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR: a) SHALL BE MOUNTED 5'-6' ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.

a) FIRE DAMPERS PROVIDED IN KITCHEN EXHAUST DUCT SHALL BE EQUIPPED WITH 212F FUSIBLE LINK.

b) | SHALL BE HEAT/OFF/COOL AND FAN/AUTO/ON SWITCHED AND SHALL BE APPROVED BY AC EQUIPMENT MANUFACTURER. c) | FURNISH AND INSTALL ALL TEMPERATURE CONTROLS, INCLUDING PROGRAMMABLE THERMOSTAT AND HUMIDISTAT CONTROLS.

FAN SCHEDULE & DATA

		HVA	C ABBREVIA	<u>TIONS</u>
	А	AMPERES	HZ	FREQUENCY
	AC	AIR CONDITIONING	IN	INCH OR INCHES
	AD	ACCESS DOOR	KW	KILOWATT
	AFF	ABOVE FINISHED FLOOR	LG	LENGTH
	AL	ACOUSTICAL LINING	LAT	LEAVING AIR TEMPERATURE
	ВНР	BRAKE HORSEPOWER	LBS	POUNDS
	вти	BRITISH THERMAL UNIT	LDB	LEAVING DRY BULB TEMPERATURE
	втин	BTU PER HOUR	LIN FT	LINEAR FEET
	CD	CEILING DIFFUSER	LWB	LEAVING WET BULB TEMPERATURE
AID		CUBIC FEET PER MINUTE	MAX	MAXIMUM
	CFM		MBH	THOUSAND BTU PER HOUR
	CG	CEILING GRILLE	MHP	MOTOR HORSEPOWER
OR	CLG	CEILING	MIN	MINIMUM
	COMPR	COMPRESSOR	NIC	NOT IN CONTRACT
	CR	CEILING REGISTER	NO.	NUMBER
	DB DIAM	DRY BULB DIAMETER	NTS	NOT TO SCALE
	DN	DOWN	RA	RETURN AIR
	DWG	DRAWING	RM	ROOM
	DX	DIRECT EXPANSION	RPM	REVOLUTIONS PER MINUTE
	EAT	ENTERING AIR TEMPERATURE	SP	STATIC PRESSURE
w/	EDB	ENTERING DRY BULB TEMPERATURE	SPEC	SPECIFICATION
	EF	EXHAUST FAN	TEMP	TEMPERATURE
	EWB	ENTERING WET BULB	TG	TOP GRILLE
	EWT	ENTERING WATER TEMPERATURE	TV	TURNING VANES
;	*F	DEGREES FAHRENHEIT	TYP	TYPICAL
	FC	FLEXIBLE CONNECTION	W	WIDTH
	FD	FIRE DAMPER	W/	WITH
	FIN FL	FINISHED FLOOR	w/o	WITHOUT
	FLA	FULL LOAD AMPERES	,	
	FPM	FEET PER MINUTE	WB	WET BULB

FEET

HEAD

MAKE UP AIR UNIT

WIRE MESH SCREEN

SUPPLY GRILLE

RETURN GRILLE

SMOKE PURGE

SFD	SFD FLEX	AUTOMATIC SMOKE AND FIRE DAMPER FLEXIBLE CONNECTION (DUCTWORK)	\bigoplus	DUCT HEATER								FAN STATIC	DUCT CONNECT	ELECT	TRIC
	FLEX	FLEXIBLE CONNECTION OR SEISMIC JOINT	igotimes	WASHROOM VENTILATOR	_	DWG TAG	QTY 1	MNF. OR EQUAL PANASONIC	MODEL OR EQUAL FV-0511VC1	SERVICE TOILET EXH.	CFM 70	(IN. W.G.)	SIZE 4"	V/PH/HZ 120/1/60	WATTS 60
·						TEF-2	1	FANTECH	FG 6	TOILET EXH.	300	0.2	10"	120/1/60	170
				·		1. PROVIDE B 2. FAN CONTE	ACKDR ROLLED	RAFT DAMPER. D BY WALL SWITCH	н.						

KITCHEN HOOD RANGE SCHEDULE									
							DUCT	ELEC	TRIC
DWG TAG	QTY	MNF. OR EQUAL	MODEL OR EQUAL	SERVICE	CFM	FAN STATIC (IN. W.G.)	CONNECT SIZE	V/PH/HZ	WATT
KH-1	1	BROAN	PM300SS	KITCHEN EXH.	115-300	0.25	8"	120/1/60	276

AIR	AIR DISTRIBUTION SCHEDULE								
DWG TAG	SERVICE	MOUNTING	DESCRIPTION	MNF OR EQUAL	MODEL OR EQUAL				
CD-A	SUPPLY AIR	SURFACE MNT	SUPPLY AIR REGISTER WITH OPPOSED BLADE DAMPER MAX NC LEVEL 25	TITUS	300RL				
RG-A	RETURN/EXHAUST AIR	"	RETURN AIR REGISTER WITH OPPOSED BLADE DAMPER, 0.67" SPACING, FIXED DEFLECTION, MAX NC LEVEL 25	19	350RL				
CD-B	SUPPLY AIR	"	SUPPLY AIR REGISTER WITH OPPOSED BLADE DAMPER MAX NC LEVEL 25	"	TMS6-12X12				

CODES	ANALYSI

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

2018 INTERNATIONAL BUILDING CODE, IBC 2018 INTERNATIONAL RESIDENTIAL CODE, IRC 2017 NATIONAL ELECTRIC CODE, NEC 2018 INTERNATIONAL MECHANICAL CODE, IMC 2018 INTERNATIONAL PLUMBING CODE, IPC 2018 INTERNATIONAL FUEL GAS CODE, IFGC 2018 INTERNATIONAL ENERGY CONSERVATION CODE

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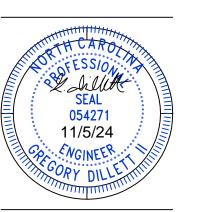
PROJECT Rock of Salvation Church

36 Line Rd, Harnett County,NC TOWN, STATE

10.30.2024

DATE: PROJECT NO.

ARCHITECT OF RECORD:



MECHANICAL COVER SHEET

SCALE: AS SHOWN

DRAWN BY: KEVIN COLE

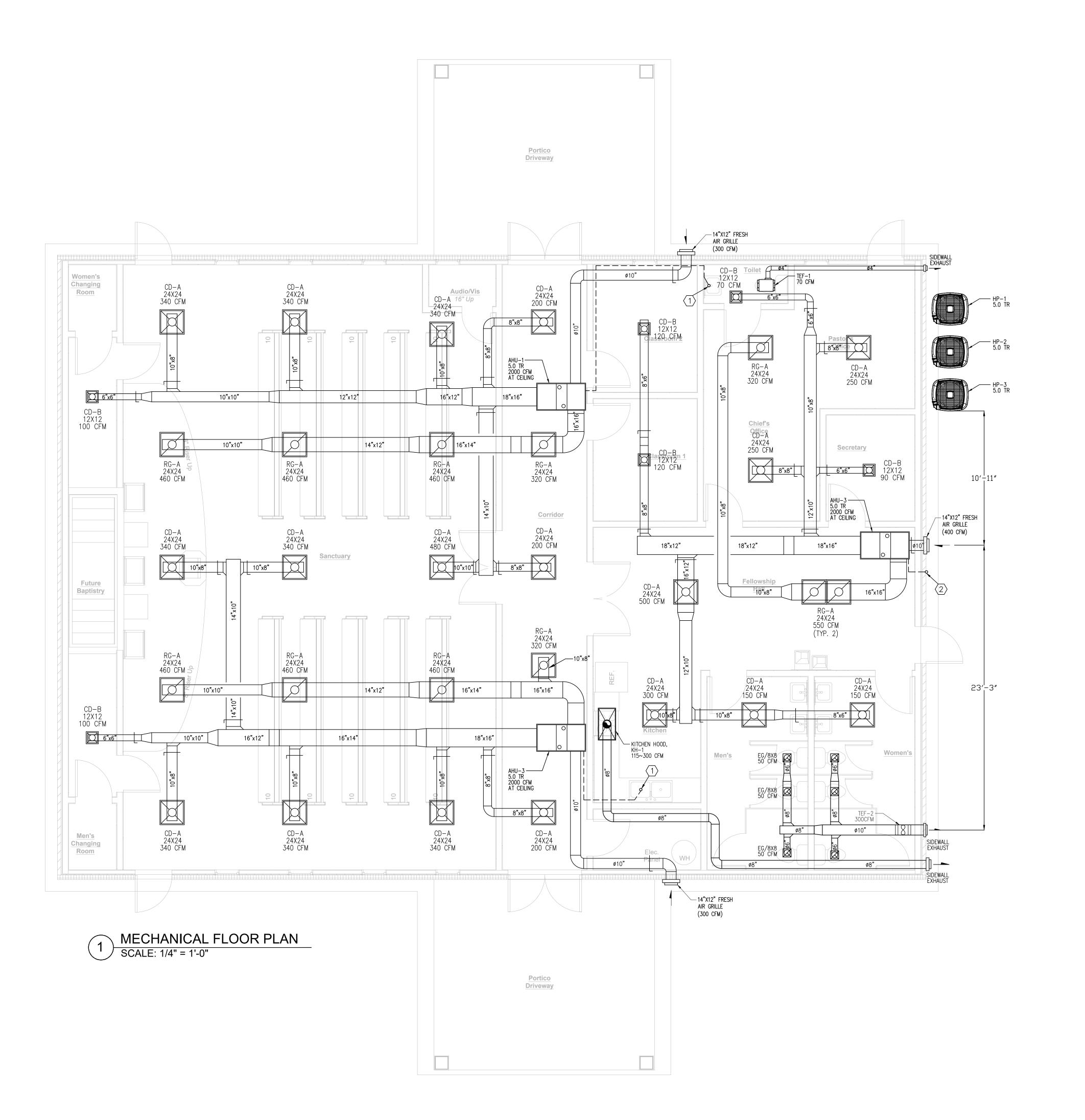
LAIR	HANDLING	UNIT	SCHEDULE
/ \ \		\bigcirc \square \square \square	

/ \ \ \ \ \		O OIVII C												
TAG	LOCATION	SERVICE	TYPE	COOLING	SUPPLY	COOLING	HEATING	ELE	CTRICAL	APPROX.	DIMENSION	MANUF.	MODEL	SYSTEM
NUMBER				TONNAGE	AIR FLOW CFM	TOTAL (BTU/H)	TOTAL (BTU/H)	MCA	VOLT/PHASE	WEIGHT (LB)	HXWXD	OR EQUAL		STSTEIN
AHU-1	FOYER CEILING SPACE	SANCTUARY & FOYER AREA	DUCTED	5.0	2000	60,000	60,000	8.6	208-230V 60/1	167	42.5"X17.5"X16"	GOODMAN	ASPT61D14*	HP-1
AHU-2	FOYER CEILING SPACE	SANCTUARY & FOYER AREA	DUCTED	5.0	2000	60,000	60,000	8.6	208-230V 60/1	167	42.5"X17.5"X16"	GOODMAN	ASPT61D14*	HP-2
AHU-3		OFFICE, HALL, KITCHEN AREA	DUCTED	5.0	2000	60,000	60,000	8.6	208-230V 60/1	167	42.5"X17.5"X16"	GOODMAN	ASPT61D14*	HP-3

HEATPUMP UNIT SCHEDULE													
TAG NUMBER	COOLING TONNAGE	COOLING TOTAL CAP.(BTU/H)	HEATING TOTAL CAP(BTU/H)		VOLT/PHASE	REFRIGERANT TYPE	MIN. EFF EER	COP	SEER	APPROX. WEIGHT (LB)	DIMENSION HXWXD (INCH)	MANUF. OR EQUAL	MODEL
HP-1	5.0	60,000	60,000	37.0	208-230V 60/1	R410A	12.0	-	16.0	306	40"X35.5"X 29.75"	GOODMAN	GSZ160601B
HP-2	5.0	60,000	60,000	37.0	208-230V 60/1	R410A	12.0	-	16.0	306	40"X35.5"X 29.75"	GOODMAN	GSZ160601B
HP-3	5.0	60,000	60,000	37.0	208-230V 60/1	R410A	12.0	-	16.0	306	40"X35.5"X 29.75"	GOODMAN	GSZ160601B

1) CAPACITY IS MEASURED BY MANUFACTURE TESTITNG WHEN PAIRED WITH CORRESPONDING CONDENSING UNIT (SEE CONDENSING UNIT SCHEDULE).

2) COOLING CAPACITY DATA IS BASED ON 95 DEG F OUTDOOR CONDITIONS AND 67 DEG F EADB.



KEYNOTES:

- . 3/4" PVC CONDENSATE LINE TO BE CONNECTED TO LAVATORY TRAP OR SINK.
- 3/4" CPVC CONDENSATE LINE TO EXPOSED OFF TO THE DRYWELL.

Kevin Cole and Associate

DESIGN CONSULTANT & CONSTRUCTION MANAGEMENT

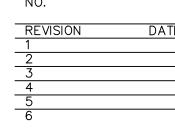
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PROJECT Rock of Salvation Church

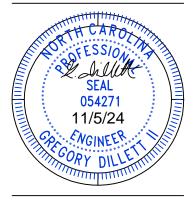
36 Line Rd, Harnett County,NC

TOWN, STATE

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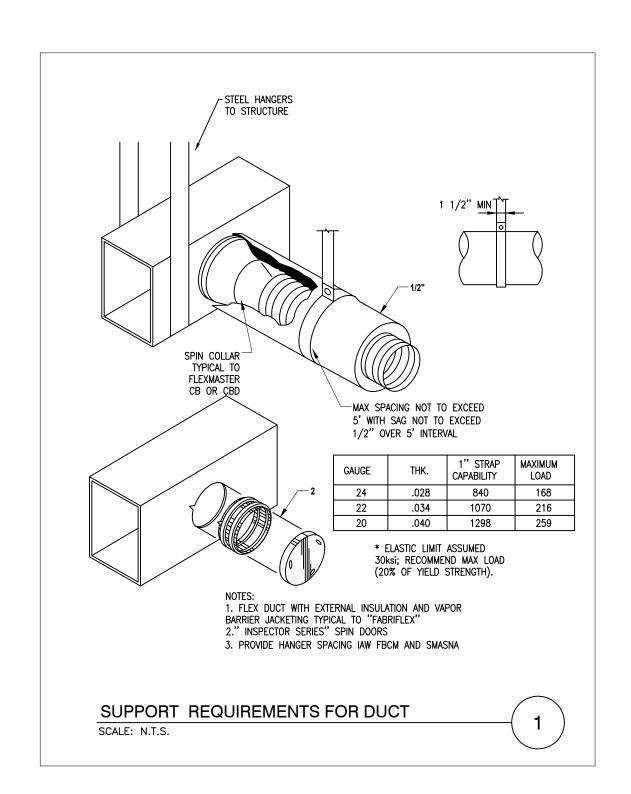
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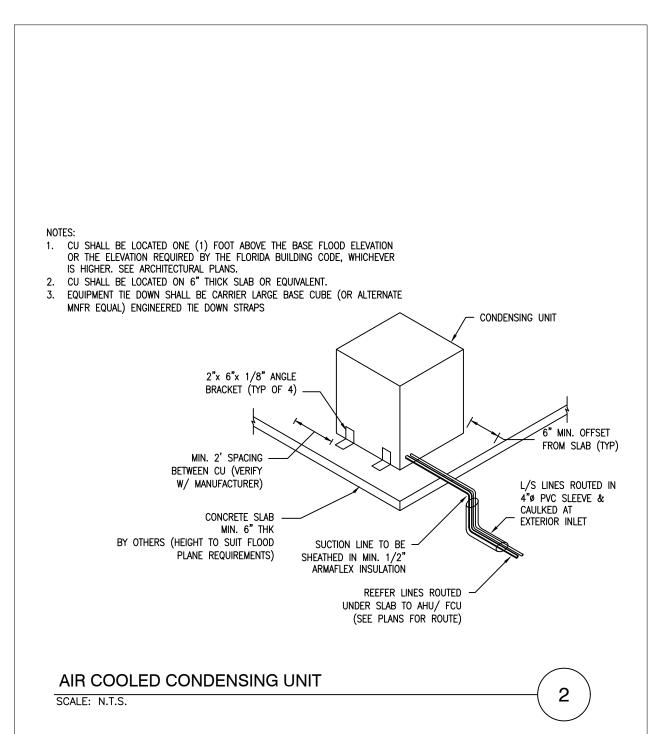


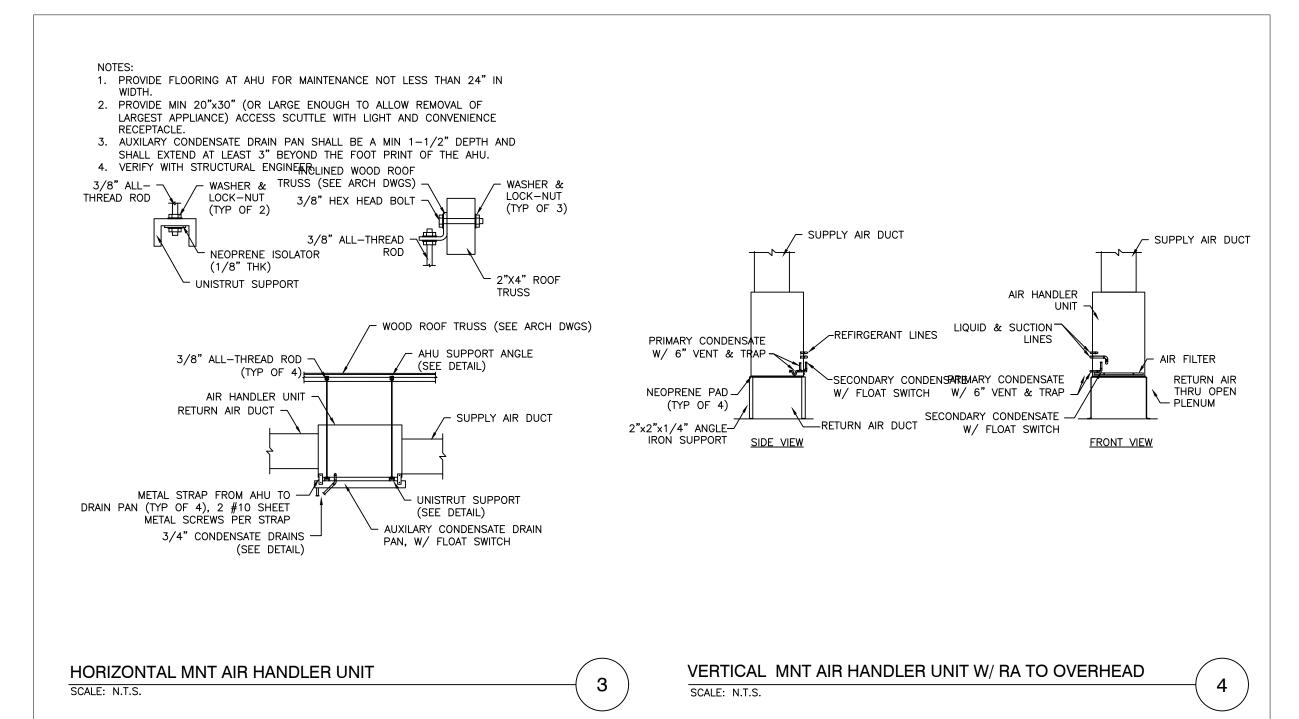
MECHANICAL PLANS

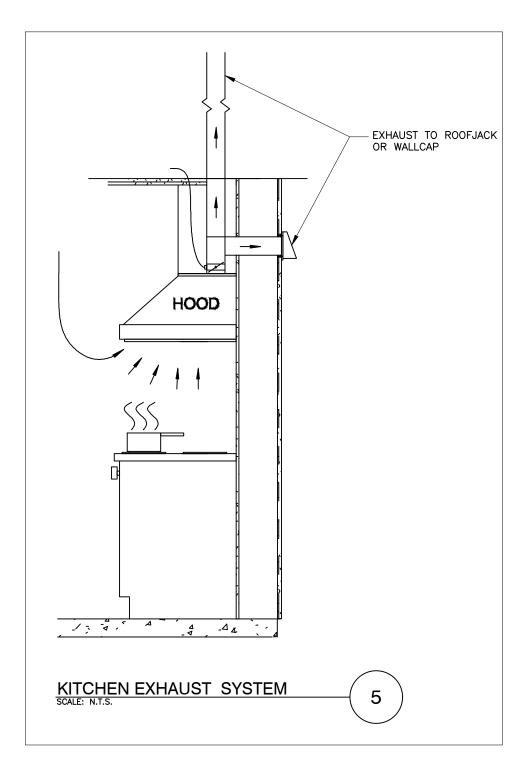
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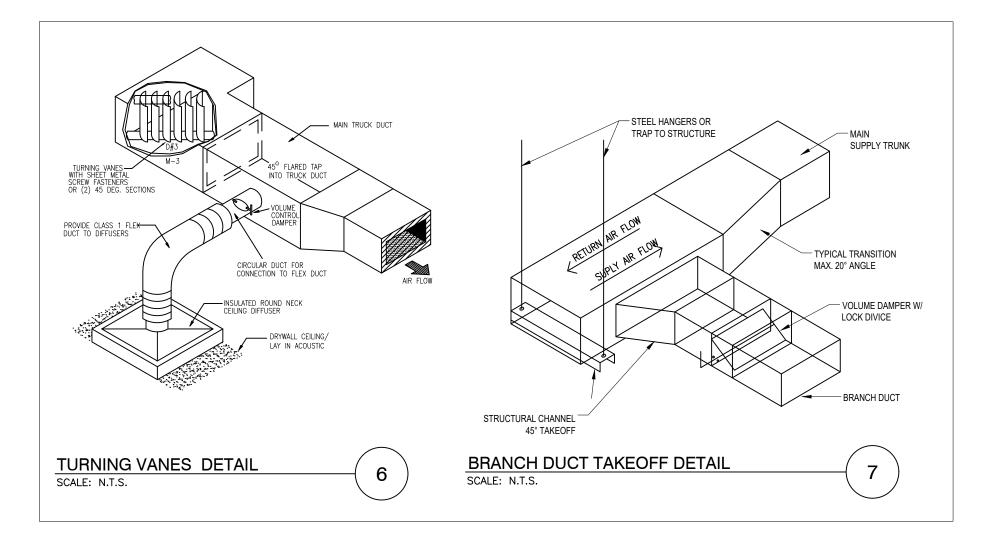
M2.01

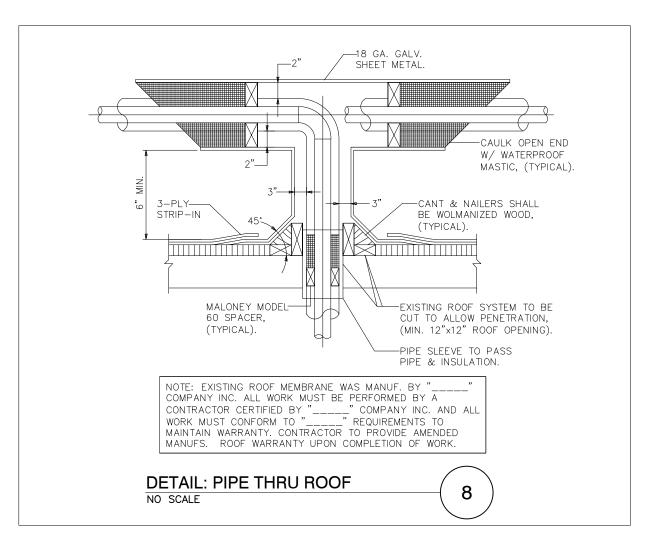


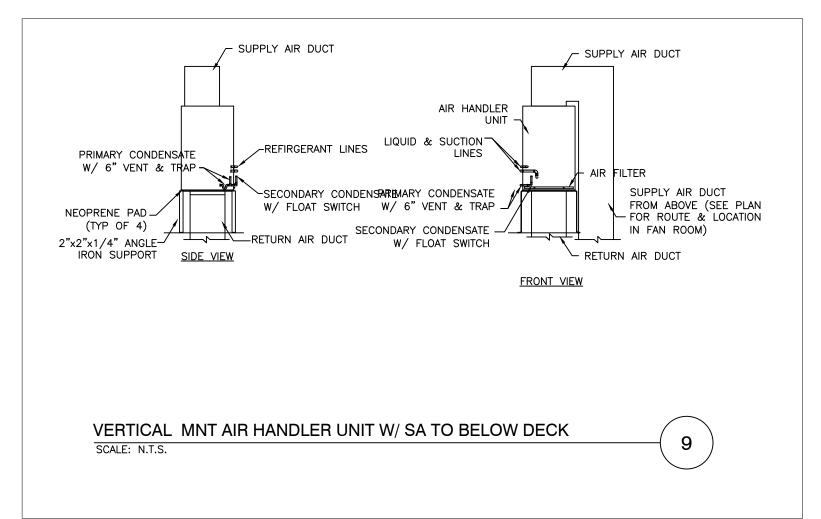


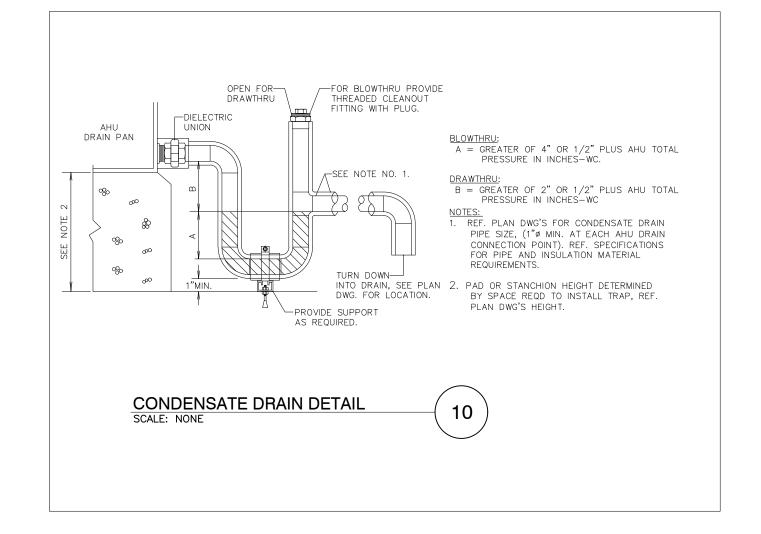


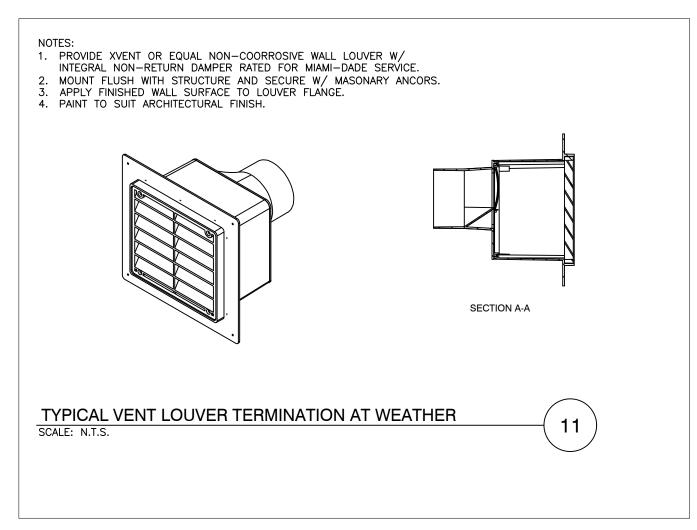


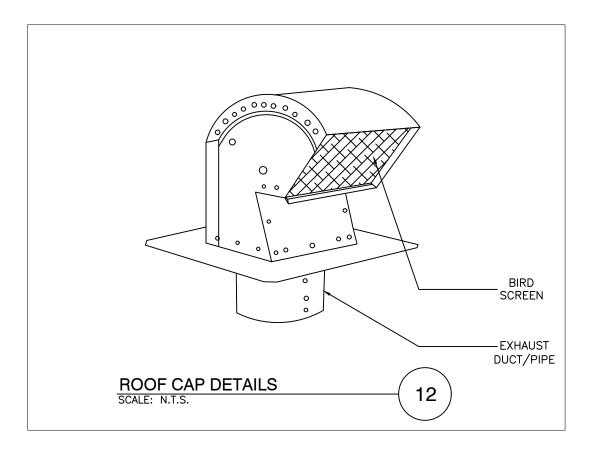












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Rock of Salvation

Harnett County,NC

10.30.2024

PROJECT

Church

DATE:

PROJECT

36 Line Rd,

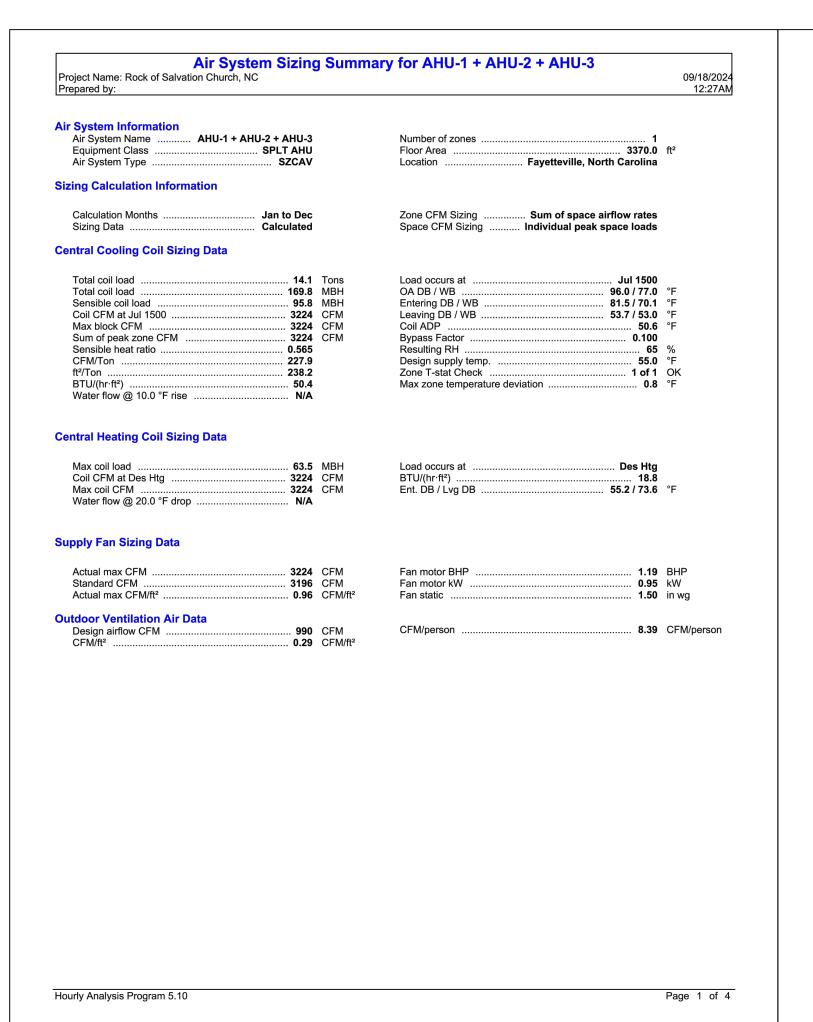
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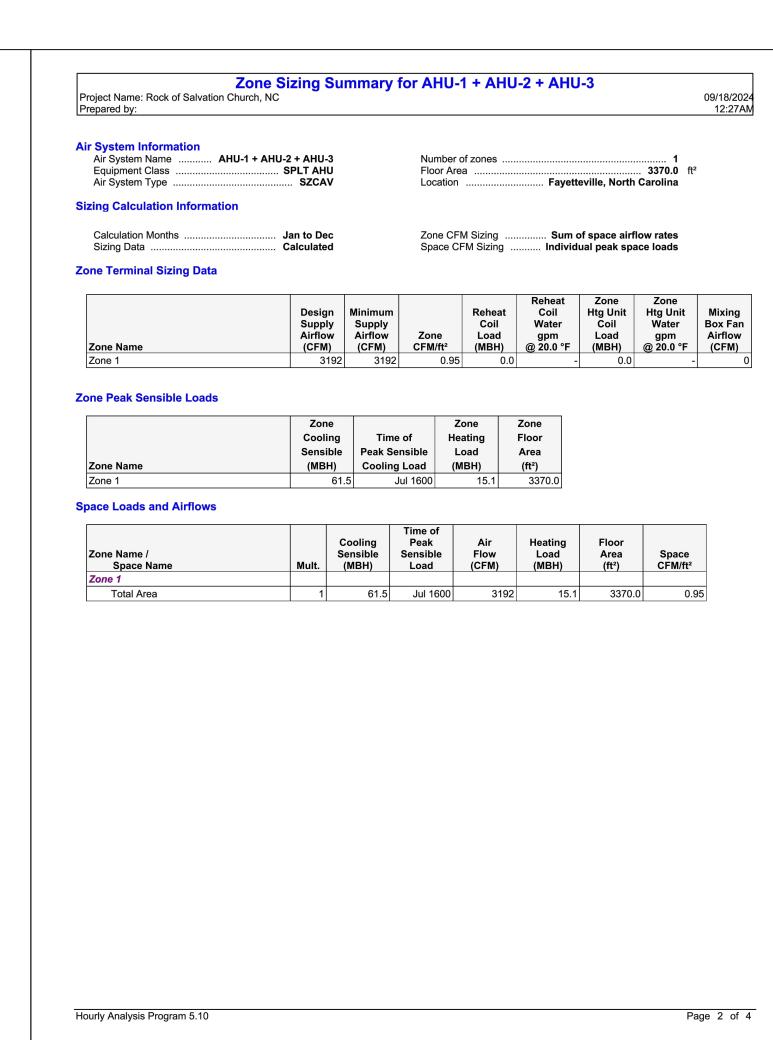


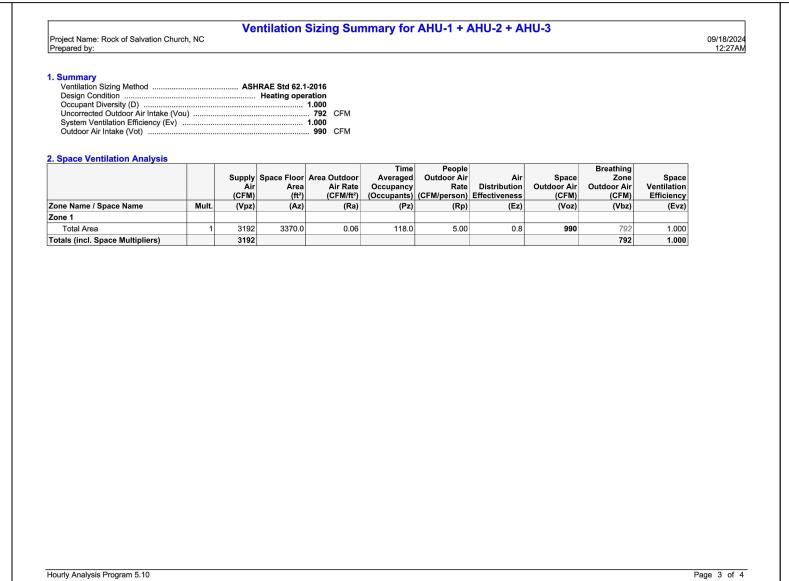
MECHANICAL DETAILS & HEAT LOAD CALCULATION

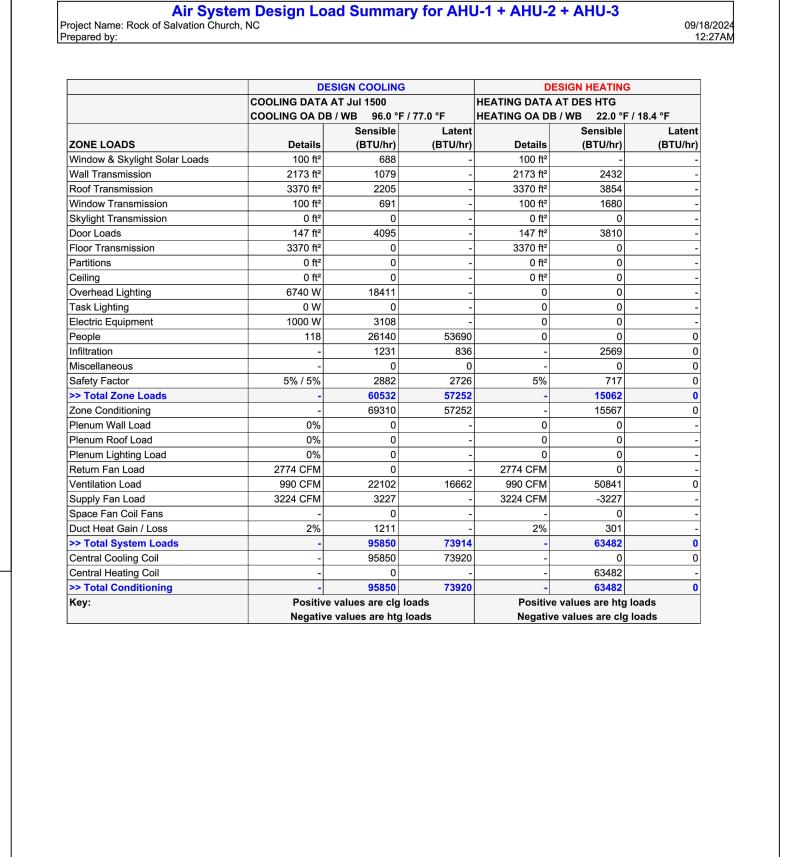
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Hourly Analysis Program 5.10

Kevin Cole and Associate
DESIGN CONSULTANT &
CONSTRUCTION MANAGEMENT

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PROJECT
Rock of Salvation
Church

36 Line Rd,

Harnett County,NC

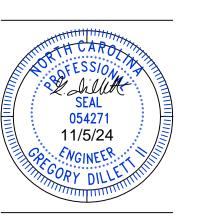
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Page 4 of 4

ARCHITECT OF RECORD:



MECHANICAL HEAT LOAD CALCULATION

SCALE: AS SHOWN

M4.01

	LEG]	END	
ACU AFF AHJ BHP BFP	AIR CONDITIONING UNIT ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION BRAKE HORSEPOWER BACKFLOW PREVENTER	EF-1 	EQUIPMENT TYPICAL EQUIPMENT DESIGNATION (EXHAUST FAN SHOWN) ROOM THERMOSTAT OR
BTUH C	BRITISH THERMAL UNIT PER HOUR COMMON	DSD	TEMPERATURE TRANSMITTER DUCT SMOKE DETECTOR
CAP CC CD CFM	CAPACITY COOLING COIL CEILING DIFFUSER CUBIC FEET PER MINUTE		GENERAL ARCHITECTURAL BACKGROUND (THIN LINE)
CLG CO COMB CONT	CEILING, COOLING CLEAN OUT COMBUSTION CONTINUE, CONTROL		NEW MECHANICAL WORK (HEAVY LINE) MATCH LINE OR PROPERTY LINE
CONTR COP CWS D	CONTRACTOR COEFFICIENT OF PERFORMANCE CHILLED WATER RETURN DIAMETER		SECTION INDENTIFICATION (DETAIL SIMILAR) INDICATES DIRECTION OF CUTTING
DB DEG DIM DISCH	DRY BULB, DECIBEL DEGREE DIMENSION DISCHARGE	M-3 M-3	PLANE LETTER INDICATES SECTION (NO. INDICATES DETAIL) SHEET # WHERE SECTION IS DRAWIN
DN EAT EFF EG	DOWN ENTERING AIR TEMPERATURE EFFICIENCY ENGINE GENERATOR	CD	SHEET # WHERE SECTION IS TAKEN PIPING CONDENSATE DRAINAGE
ELEC EQUIV EXH F FCU	ELECTRIC EQUIVALENT EXHAUST FAHRENHEIT FAN COIL UNIT	——————————————————————————————————————	NATURAL GAS — STANDARD PRESSURE NATURAL GAS — MEDIUM PRESSURE WASTE (W)
FCU FCW FLR FOF FPM	FAN COIL ONT FILTERED COLD WATER FLOOR FUEL OIL FILL FEET PER MINUTE	——————————————————————————————————————	RAIN LEADER (RL) OVER FLOW RAIN LEADER (OL) VENT (V) COLD WATER (CW)
FPS G GAL GPM	FEET PER MINOTE FEET PER SECOND GAS GALLONS GALLONS PER MINUTE		HOT WATER, POTABLE, 120F HOT WATER CIRCULATING (HWC), POTABLE, 120 F
GWB HD HORIZ HP	GYPSUM WALLBOARD HEAD HORIZONTAL HORSEPOWER		HOT WATER, POTABLE, TEMPERATURE OTHER THAN 120F HOT WATER CIRCULATING (HWC),POTABLE TEMPERATURE OTHER THAN 120 F
HPU HVAC HWR	HEAT PUMP UNIT HEATING, VENTILATING, AND AIR CONDITIONING HOT WATER RETURN		IRRIGATION PIPE CAP PIPE PLUG
HWS ID IN	HOT WATER SUPPLY INDIRECT DRAIN INSIDE DIAMETER INCH		UNION FLANGE GATE VALVE OR BALL VALVE BALL VALVE
KW L LB MBH	KILOWATT LONG, LENGTH POUND THOUSAND BTU PER HOUR		PRESSURE REDUCING VALVE (PRV) BREAK IN PIPING OR DUCTWORK CHECK VALVE
MECH MCA MOCP	MECHANICAL MINIMUM CIRCUIT AMPACITY MAXIMUM OVER CURRENT PROTECTION	——————————————————————————————————————	BALANCING OR PLUG VALV BALANCING/MEASUING VALVE INDIRECT DRAIN, PIPE TO DRAIN
MTD OD	MOUNTED OUTSIDE DIMENSION OR DIAMETER OVER FLOW DRAIN		GLOBE VALVE BUTTERFLY VALVE WYE STRAINER WYE STRAINER WITH CAPPED HOSE
OPNG P PD POC	OPENING PUMP PRESSURE DROP, PUMPED DRAIN POINT OF CONNECTION	—————————————————————————————————————	END BLOWDOWN VALVE AUTOMATIC CONTROL VALVE, 2—WAY
PRV PSIG RD REF	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH GAUGE ROOF DRAIN REFERENCE		AUTOMATIC CONTROL VALVE, 3—WAY RELIEF VALVE
RPM SCH SF SR	REVOLUTIONS PER MINUTE SCHEDULE SQUARE FOOT SUDS RELIEF	RPBP	REDUCED PRESSURE BACKFLOE PREVENTER REDUCED PRESSURE BACKFLOE PREVENTER
SS SQ TYP	STAINLESS STEEL SANITARY SEWER SQUARE TYPICAL	DCVA ————————————————————————————————————	FLOOR DRAIN HOSE BIBB PIPE ALIGNMENT GUIDE
UNO V VTR W	UNLESS OTHERWISE NOTED VENT VENT THRU ROOF WASTE	PS XA	FLEXIBLE CONNECTION IN PIPING PIPE SUPPORT PIPE ANCHOR
	WATT WIDW		PRESSURE GAGE
		— T	THERMOMETER PRESSURE / TEMPERATURE TEST PORT VALVE SATION OR ASSEMBLY
			PUMP GAS RISER CALLOUT WASTE/VENT RISER CALLOUT
		TMV	CW/HW RISER CALLOUT THERMOSTATIC MIXING VALVE
		T&P	BFP TEMPERATURE & PRESSURE RELIEF VALVE

GENERAL NOTES

- 1. ALL WORK MUST BE DONE BY A LICENSED PLUMBER AND SHALL BE DONE PER CURRENT EDITION OF NATIONAL AND LOCAL CODES.
- 2. THE INTENT OF THESE DRAWINGS ARE TO PROVIDE COMPLETE OPERATIONAL SYSTEMS. EVEN THOUGH ALL FITTINGS & COMPONENTS MAY NOT BE SHOWN ON THE DRAWINGS, THE CONTRACTOR WILL RESPONSIBLE FOR PROVIDING ALL SERVICES, LABOR, MATERIALS TOOLS, AND EQUIPMENT 7. FURNISH TO THE OWNER A SET OF AS-BUILT DRAWINGS IN PDF FORMAT. TO CONSTRUCT, INSTALL AND COMMISSION COMPLETE OPERATIONAL SYSTEMS.
- 3. COORDINATE ALL INSTALLATIONS WITH ALL OTHER TRADES.
- 4. VERIFY ALL DIMENSIONS AND FINAL LOCATIONS WITH THE OWNER OR OWNER'S REPRESENTATIVE OR ARCHITECT.
- 5. VERIFY THE FINISHES FOR FIXTURES WITH OWNER OR OWNER'S REPRESENTATIVE OR ARCHITECT PRIOR TO PROCUREMENT.
- 6. PROVIDE MINIMUM 1 YEAR WARRANTY ON WORKMANSHIP AND MATERIALS FROM THE DATE OF THE FINAL INSPECTION.
- 8. THE LOCATION OF THE PLUMBING FIXTURES SHALL BE VERIFIED WITH THE ARCHITECTURAL PLAN AND THE OWNER FOR FINAL CONNECTION.
- 9. THE PLUMBING ROUTING ARE SHOWN DIAGRAMMATICALLY, AND CONTRACTOR MUST FIELD VERIFY THE ROUTING AND COORDINATE IT WITH THE OWNER AND ARCHITECTURE AND ADJUST IT IF NEEDED.

PIPE MATERIALS

- 1. UNDERGROUND SERVICE ENTRANCE PIPING: COPPER TYPE L.
- 2. ABOVEGROUND WATER DISTRIBUTION PIPING: CPVC
- 3. UNDERGROUND WASTE & VENT PIPING: CPVC
- 4. ABOVEGROUND WASTE & VENT PIPING: CPVC
- 5. ABOVEGROUND GAS PIPING: STEEL PIPE, ASTM A 53; TYPE E OR S; GRADE B; SCHEDULE 40; BLACK.
- 6. UNDERGROUND GAS PIPING: POLYETHYLENE, ASTM D-2513
- CONDENSATE DRAIN PIPING: CPVC
- UNDERGROUND STORM PIPING: CPVC.
- 9. ABOVEGROUND STORM PIPING: CPVC

PIPE INSULATION SCHEDULE

SERVICE	MATERIAL	THICKNESS	FEILD APPLIED JACKET	VAPOR RETARDER REQUIRED
DOMESTIC COLD WATER AND CONDENSATE DRAINS	MINERAL-FIBER WITH JACKET	ALL SIZES: 1/2"	NONE	YES
DOMESTIC HOT WATER WITHIN THE UNITS (NON-RECIRCULATED)	MINERAL-FIBER WITH JACKET	RUNOUTS: 1/2" 1/2"-2" PIPE: 1"	NONE	YES
DOMESTIC, HOT AND RECIRCULATED WATER OPERATING TEMPERATURE: 105 TO 140 DEG F.	MINERAL-FIBER WITH JACKET	RUNOUTS: 1/2" 1/2"-2" PIPE: 1" 2"-6" PIPE: 1-1/2"	NONE	YES
HORIZONTAL RAINWATER CONDUCTORS	MINERAL-FIBER OR CELLULAR GLASS, WITH JACKET	ALL SIZES: 1/2"	FOIL AND PAPER	YES
ROOF DRAIN BODIES	MINERAL-FIBER OR CELLULAR GLASS, WITH JACKET	1"	NONE	YES
EXPOSED SANITARY DRAINS AND DOMESTIC WATER SUPPLIES AND STOPS FOR FIXTURES FOR THE DISABLED.	"LAV - GUARD" AS MANUFACTURE BY TRUEBRO	N/A	PVC P-TRAP AND SUPPLY COVERS	NO

FIXTURE TYPE	OTV		DRAINAGE ¹						
	QTY	COLD ²	HOT ²	FIXTURE DEMAND	TOTAL COLD WATER	TOTAL HOT WATER	TOTAL DEMAND	DFU	TOTAL
WATER CLOSET, 1.6 GPF	7	5.0	0	5.0	35.0	0.0	35.0	4	28.0
LAVATORY	5	1.5	1.5	2.0	7.5	7.5	10.0	2	10.0
KITCHEN SINK	1	3.0	3.0	4.0	3.0	3.0	4.0	2	2.0
BAPTISTRY	1	2.5	0.0	2.5	2.5	0.0	2.5	3	3.0
DRINKING FOUNTAIN	2	0.3	0.0	0.3	0.5	0.0	0.5	2	4.0
FLOOR DRAIN	3	0.0	0.0	0.0	0.0	0.0	0.0	2	6.0
TOTAL FIXTURE UNITS	48.5	10.5	52.0		46.0				
EQUIVALENT WATER DEMAND IN GPM ³	29.1	15.4	32.0						
OTHER REQUIRED WATER OUTLETS IN GPM	0.0	0.0	0.0						
TOTAL WATER DEMAND IN GPM			29.1	15.4	32.0				
REQUIRED MINIMUM PIPE SIZE ⁴			1 1/4"	1"	1 1/4"				
PROVIED PIPE SIZE ⁴					4"				

- 1. FIXTURE UNITS ARE BASED ON 2018 IPC TABLE E103.3(2) FOR WATER AND TABLE 709.1 FOR DRAINAGE.
- 2. THE SEPARATE COLD WATER AND HOT WATER FIXTURE UNITS ARE TAKEN AS THREE-QUARTER (3/4) OF TOTAL FIXTURE DEMAND, PER 2018 IPC TABLE E103.3(2)
- 3. GPM EQUIVALENTS ARE BASED ON 2018 IPC TABLE E103.3(3)
- 4. PIPE SIZE ARE BASED ON 2018 IPC CHART E103.3(3) AND E201.1 FOR WATER AND TABLE 710.1(1) AND TABLE 710.1(2) FOR SEWER.

DRAWING LEGEND

DESCRIPTION	LINE SYMBOL				
SANITARY LINE	S ————————————————————————————————————				
VENT PIPING					
FLOOR DRAIN	FD 🔯				
HOT WATER SUPPLY					
COLD WATER SUPPLY					
LPG LINE	GAS GAS GAS GAS GAS GAS				
CONDENSATE PIPE					
CLEAN OUT	CO C				
WATER METER	M				
WATER SHUTOFF VALVE					
GAS SHUTOFF VALVE					
BACKFLOW PREVENTER	BFP WHAIM				
PRESSURE RELIEF VALVE	PRV				
THERMOSTATIC MIXING VALVE	TM∨				
RPZ BACKFLOW DEVICE	RPZ				
HOT WATER TEMPERATURE CONTROL VALVE					

FIXTURE SCHEDULE									
ITEM	FIXTURE	COLD WATER	HOT	WASTE	VENT	STORM	DESCRIPTION		
WC I	WATER CLOSET	3/4"	-	3"	2"	-	1.6 GALLONS / FLUSH SELECTION TBD BY OWNER.		
L	LAVATORY	1/2"	1/2"	2"	1-1/2"	-	0.5 GPM, SELECTION TBD BY OWNER		
(KS)	KITCHEN SINK	1/2"	1/2"	2"	1-1/2"	-	2.2 GPM @60 PSI. SELECTION TBD BY OWNER		
BA	BAPTISTRY	3/4"	-	-	-	-	SELECTION TBD BY OWNER.		
DF	DRINKING FOUNTAIN	1/2"	-	1-1/4"	1-1/4"	-	SELECTION TBD BY OWNER.		

WATER HEATER SCHEDULE									
FIXTURE SYMBOL	MANUFACTURER	MODEL NUMBER	CAPACITY GALLONS	ELECTRICAL CAPACITY	FIRST HOUR RATING (GALLON)	UNIFORM ENERGY FACTOR	REMARKS		
WH-1	RHEEM	XE50T06ST45U1	50	4.5 KW	61	.93	SEE DETAILS IN SHEET P5		

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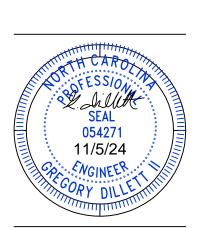
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DRAWN BY: KEVIN COLE

CODES ANALYSIS

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

- 2018 INTERNATIONAL BUILDING CODE, IBC
- 2018 INTERNATIONAL RESIDENTIAL CODE, IRC
- 2017 NATIONAL ELECTRIC CODE, NEC
- 2018 INTERNATIONAL MECHANICAL CODE, IMC 2018 INTERNATIONAL PLUMBING CODE, IPC
- 2018 INTERNATIONAL FUEL GAS CODE, IFGC
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE

NOTE:
THE CONTRACTOR TO VERIFY THE LOCATION OF EXISTING WATER AND SANITARY LINES.



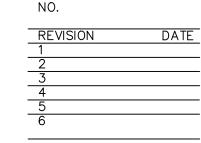
FAYETTEVILLE NC, 28306 ©2022

PROJECT
Rock of Salvation
Church

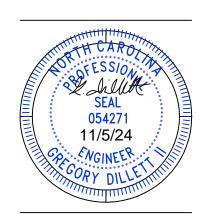
36 Line Rd, Harnett County,NC

TOWN, STATE

DATE: 10.30.2024
PROJECT –
NO.



ARCHITECT OF RECORD:



PLUMBING PLANS

SCALE: AS SHOWN

P2.01

NOTE:
THE CONTRACTOR TO VERIFY THE LOCATION OF EXISTING WATER AND SANITARY LINES.

Kevin Cole and Associate
DESIGN CONSULTANT &
CONSTRUCTION MANAGEMEN

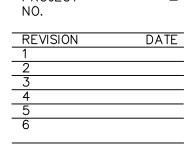
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PROJECT
Rock of Salvation
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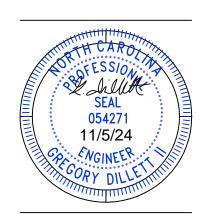
36 Line Rd, Harnett County,NC

TOWN, STATE

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ARCHITECT OF RECORD:



PLUMBING PLANS

SCALE: AS SHOWN

P3.01

Kevin Cole and Associate

ESIGN CONSULTANT & CONSTRUCTION MANAGEMENT

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PROJECT Rock of Salvation Church

36 Line Rd, Harnett County,NC

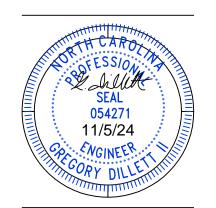
TOWN, STATE

DATE: 10.30.2024
PROJECT -

REVISION DATE

1
2
3
4
5

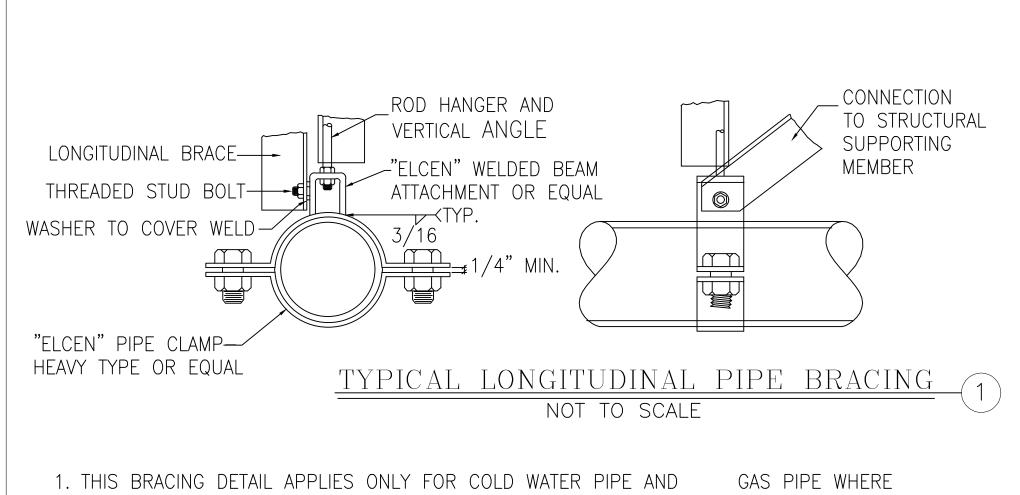
ARCHITECT OF RECORD:



PLUMBING RISER

SCALE: AS SHOWN

P4.01



MOVEMENT OF THE PIPE DUE TO TEMPERATURE DIFFERENTIAL IS NEGLIGIBLE

"CLEANOUT" TO BE CAST IN COVER

- CAST IRON CLEANOUT WITH COVER FOR APPLICABLE DUTY ---

- GRADE OR PAVING

CAST IRON LONG SWEEP
 1/4 BEND OR CAST IRON

COMB. Y & 1/8 BEND. (USE REDUCING TYPE

OR DRAIN —

MAY EXTEND AS

WASTE OR VENT

AREAS ONLY PLUGGED TEE

INTERIOR WALL CLEANOUT (WCO)

WITH CLEANOUT

CHROME WALL COVER AND SCREW AT FINISH

EXTERIOR CLEANOUT TO GRADE (COTG)
(LIGHT TRAFFIC AREA)

CLEANOUT DETAIL

SCALE: NONE

6" THICK BY 18" SQUARE CONCRETE

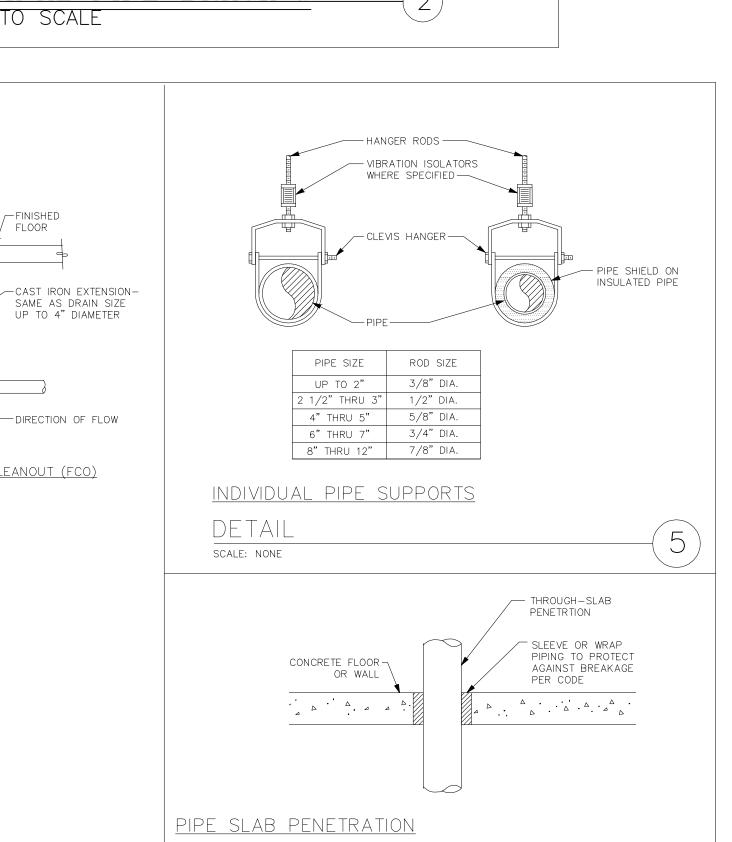
2. IT IS THE RESPONSIBILITY OF THE USER OF THIS GUIDELINE TO ASCERTAIN ADEQUATE BRACING AND ANCHORAGE DEVICE BE DESIGNED FOR PIPE WHENEVER THE MOVEMENT EXISTS. PROVIDE ONE ANCHOR POINT IN ONE PIPE RUN. DUE TO THERMAL DIFFERENTIAL ALLOW FOR LONGITUDINAL PIPE MOVEMENT AT THE OPPOSITE END OF THE ANCHOR POINT.

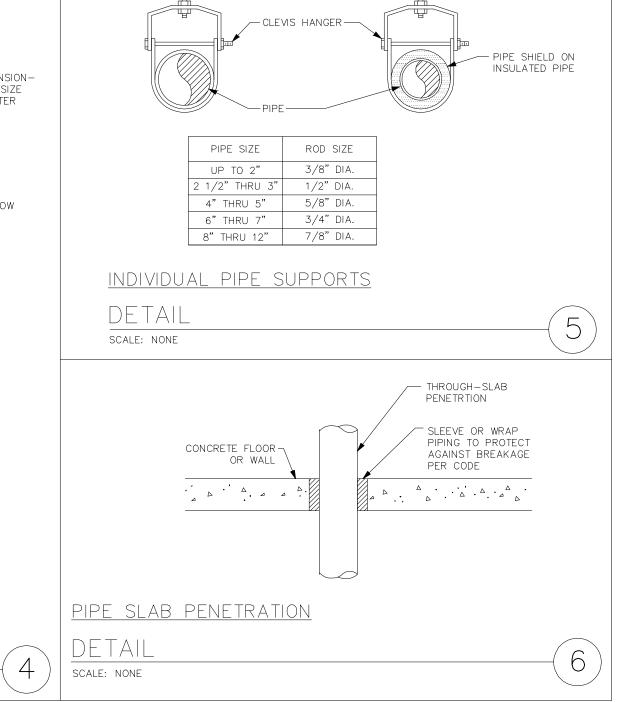
FINISHED FLOOR

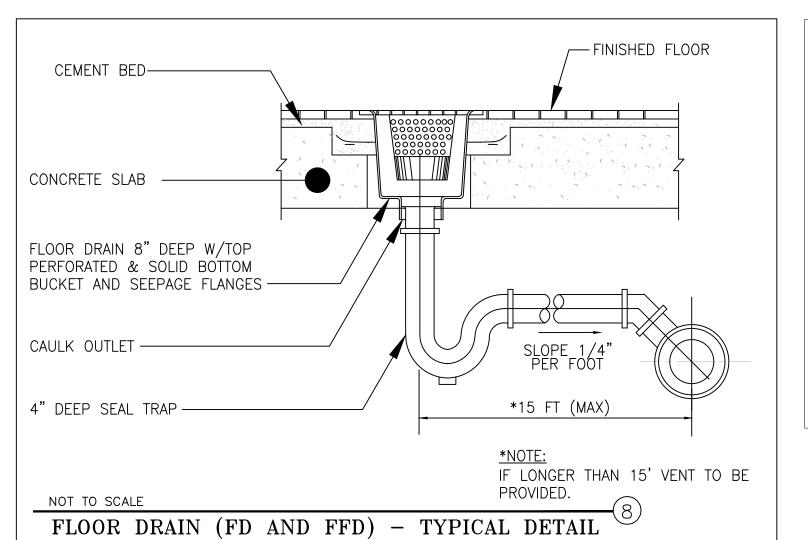
INTERIOR FLOOR CLEANOUT (FCO)

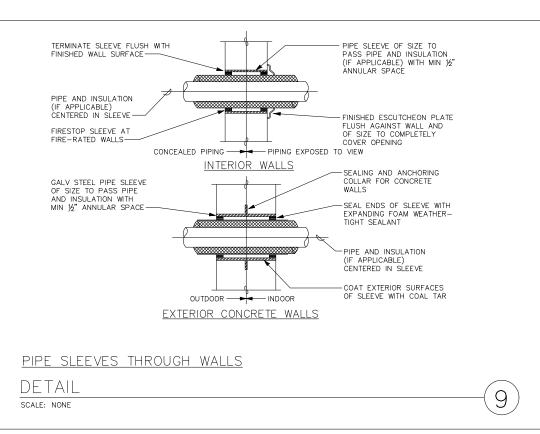
LONGITUDINAL PIPE BRACING
NOT TO SCALE

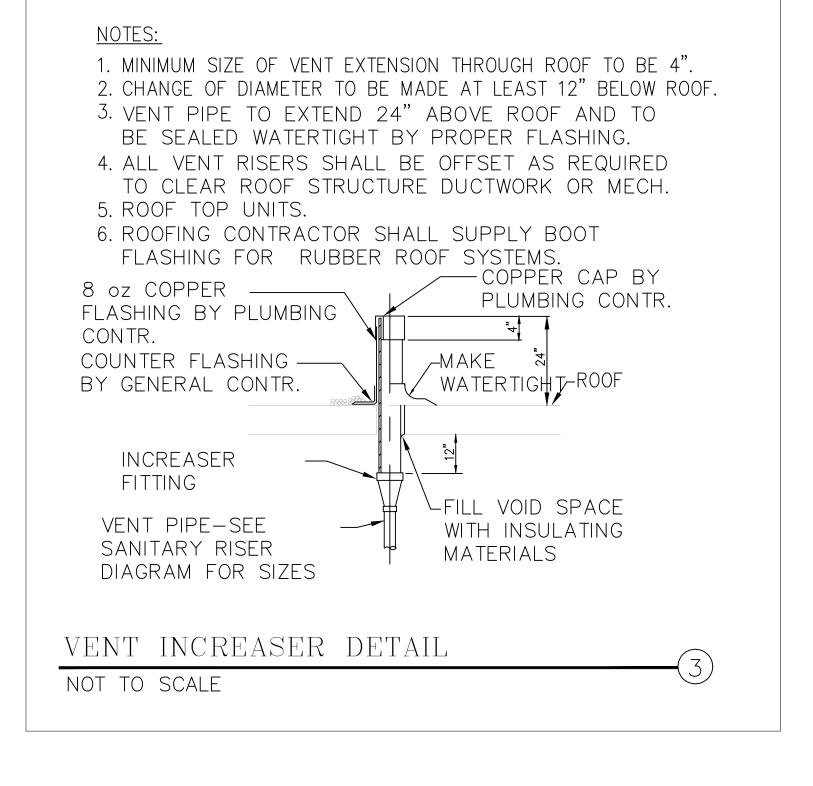


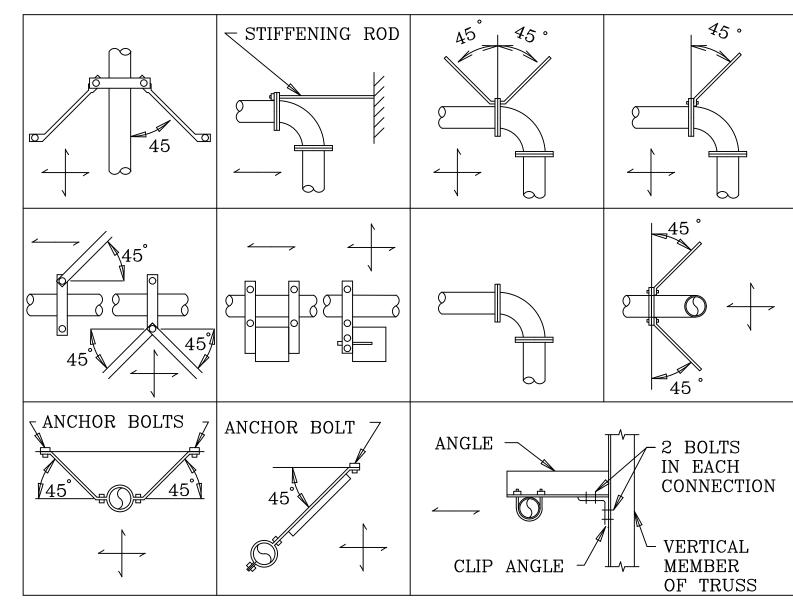




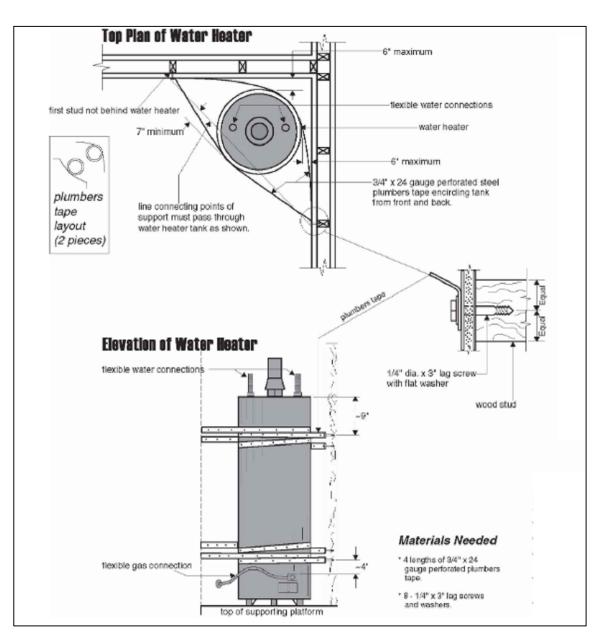




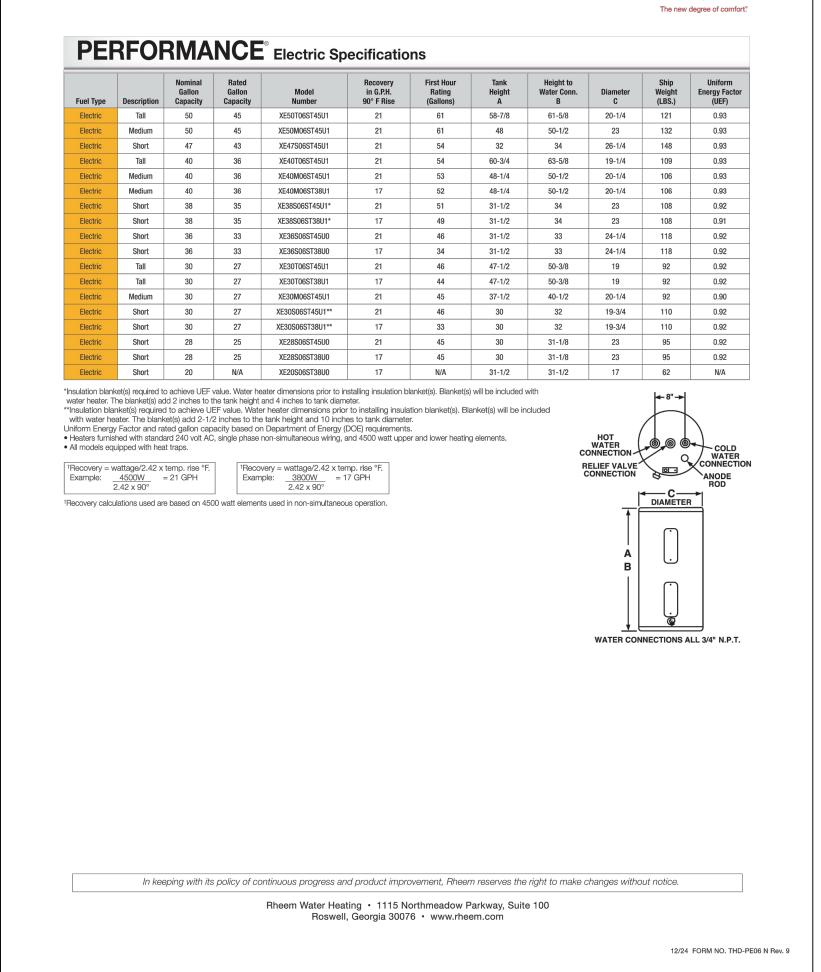




SEISMIC DETAILS FOR SWAY BRACING







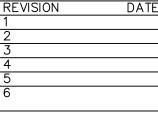


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PROJECT Rock of Salvation Church

36 Line Rd, Harnett County,NC

TOWN, STATE DATE: PROJECT 10.30.2024



ARCHITECT OF RECORD:



PLUMBING DETAILS

SCALE: AS SHOWN