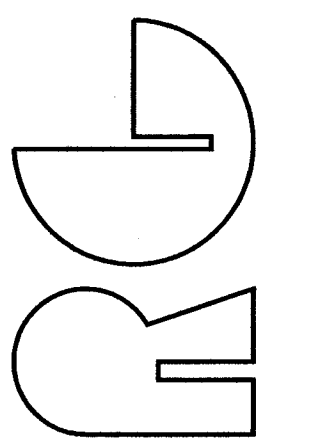


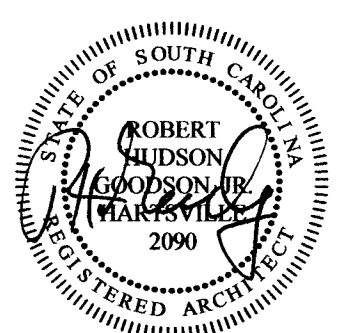
RENOVATIONS FOR ONE CHURCH

126 WEST CAROLINA AVENUE, HARTSVILLE, SC

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RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



DATE: 12/2023

SHEET
CS1
OF 1

DIRECTORY

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JIMMY BECK, PASTOR

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MECHANICAL ENGINEER:

MECA
2330 MAIN STREET
COLUMBIA, S.C. 29201
(TEL) 803-765-9421

PLUMBING ENGINEER:

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2330 MAIN STREET
COLUMBIA, S.C. 29201
(TEL) 803-765-9421

ELECTRICAL ENGINEER:

GWA ELECTRICAL ENGINEERS, INC.
168 LAURELHURST AVENUE
COLUMBIA, S.C. 29210
(TEL) 803-252-6919

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- A3 - TOILET DETAILS AND MOUNTING HEIGHTS
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ED01 - ELECTRICAL PLAN- DEMOLITION

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BUILDING CODE ANALYSIS

THIS ANALYSIS IS MADE UTILIZING THE INTERNATIONAL BUILDING CODE, 2021 EDITION.
OTHER CODES USED IN DESIGN - ICC/ANSI A117.1-2017 EDITION

PROJECT: INTERIOR RENOVATIONS
ONE CHURCH
126 W. CAROLINA AVENUE, HARTSVILLE, SC

I. OCCUPANCY CLASSIFICATION (CHAPTER 3):	GROUP A3 ASSEMBLY
II. PROPERTIES OF THE BUILDING (CHAPTER 5):	
A. BUILDING AREA:	EXISTING AREA TO INCLUDE RESTROOMS/MEETING ROOMS/STORAGE - 6500 S.F. GROSS
B. GRADE ELEVATION:	6"± ABOVE STREET GRADE (EXISTING)
C. BUILDING HEIGHT:	19'-0"±
D. BUILDING HEIGHT IN STORIES:	ONE (1)
E. HORIZONTAL SEPARATION DISTANCE:	EXISTING
F. PERCENT OF EXTERIOR OPENING:	EXISTING
G. TYPE OF CONSTRUCTION :	TYPE III B
H. ALLOWABLE MAXIMUM HEIGHT IN STORIES:	TWO (2) (TABLE 504.4
I. ALLOWABLE MAXIMUM FLOOR AREA:	9,500 S.F./FLOOR - A1TE (TABLE 506.2)
III. SPECIAL OCCUPANCY REQUIREMENTS:	NONE
IV. CONSTRUCTION REQUIREMENTS:	
A. FIRE PROTECTION OF STRUCTURAL MEMBERS (TABLE 601)	
INTERIOR BEARING WALLS:	0
INTERIOR NON-BEARING WALLS:	0
COLUMNS:	0
BEAMS, GIRDERS, ETC.:	0
FLOORS:	NA
ROOFS AND ROOF/CEILING:	0
EXTERIOR BEARING WALLS:	2
EXTERIOR NON-BEARING WALLS,	0
B. FIRE RESISTANCE RATING - EXT. WALLS BASED ON FIRE SEPARATION DISTANCE :	
EXTERIOR WALLS	2
V. USE & OCCUPANCY SEPARATION REQUIREMENTS (CHAPTER 3)	
FOR OCCUPANCY SEPARATION:	2
VI. MEANS OF EGRESS REQUIREMENTS (CHAPTER 10)	
MINIMUM NUMBER OF EXITS:	TWO (2) (TABLE 1006.3.3)
MAXIMUM TRAVEL DISTANCE:	200 FT (TABLE 1017.2)

OCCUPANT LOAD (TABLE 1004.5)

MEETING ROOM A102 - 202
MEETING ROOM A106 - 32
MEETING ROOM A109 - 40

TOTAL OCCUPANT LOAD = 274

NOTE #1 – THIS DRAWING DEPICTS AN EXISTING BUILDING WITH NOTATIONS OF BASIC CODE REQUIREMENTS TO INCLUDE EXIT ROUTES, OCCUPANCY LOADS, EMERGENCY/EXIT LIGHTS, FIRE EXTINGUISHERS.

NOTE #2 – A SIGN SHALL BE POSTED ADJACENT TO EXTERIOR DOORS – SIGN TO BE WORDED AS FOLLOWS " DOOR SHALL REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" LETTERS SHALL BE 1" TALL MINIMUM AND ON A CONTRASTING BACKGROUND

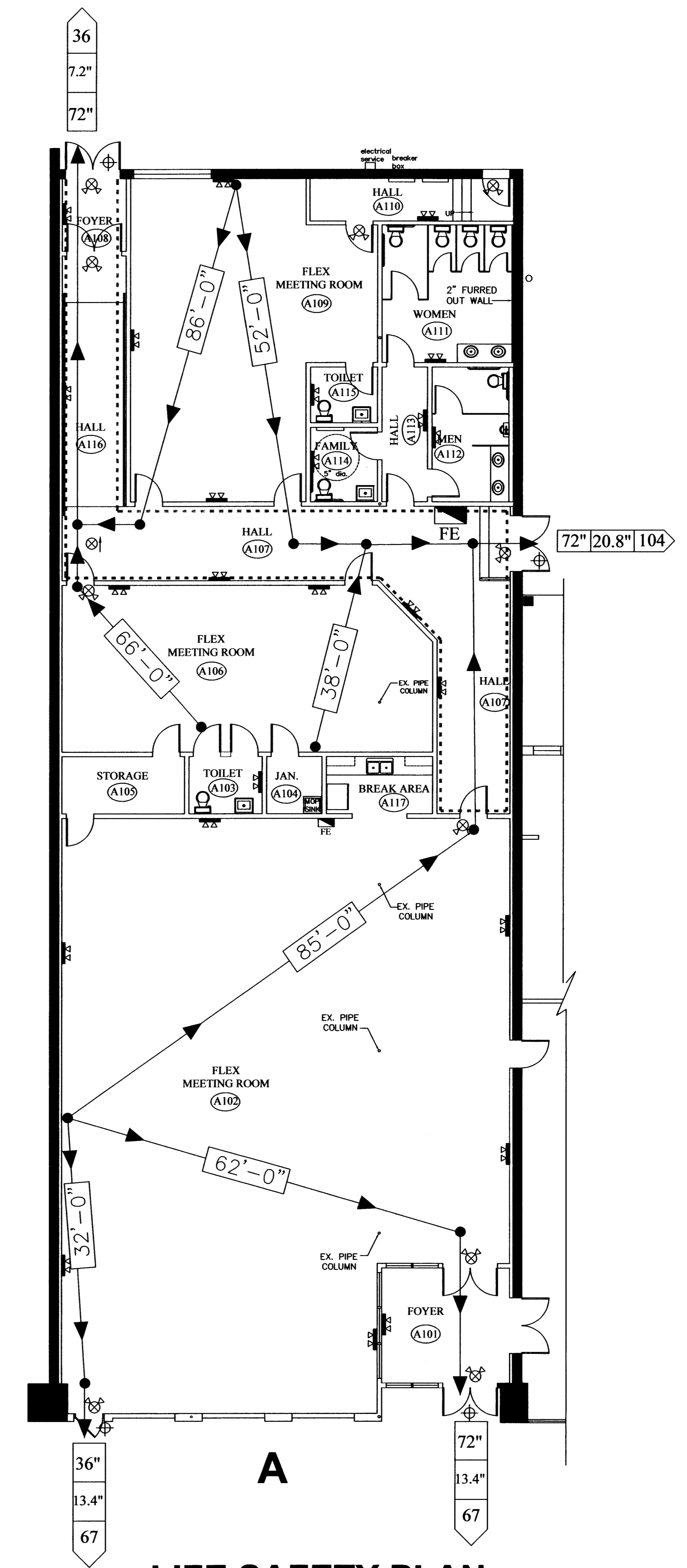
LIFE SAFETY LEGEND

- XX XX XXX
 NUMBER OF PERSONS EXITING
 EXIT CAPACITY WIDTH REQUIRED (IN INCHES)
 EXIT CAPACITY WIDTH DESIGNED (IN INCHES)
- FE
 4-A:60-B, 10 LB., DRY CHEMICAL MULTI PURPOSE FIRE EXTINGUISHER
 INSTALLED IN SEMI-RECESSED FIRE EXTINGUISHER CABINET
 (SURFACE MOUNTED AT EXIST. EXPOSED CONCRETE BLOCK WALLS)
- ▲
 EMERGENCY LIGHT UNIT
- ⊕
 EXIT LIGHT/EMERGENCY LIGHT COMBINATION UNIT
- XX
 MAXIMUM TRAVEL DISTANCE DESIGNED
- ⊕
 EMERGENCY EGRESS LIGHT (AT EXTERIOR)
- NEW METAL STUD WALL
- EXISTING MASONRY WALL
-
 1-HR RATED WALL

CODE EDITION: IBC 2021

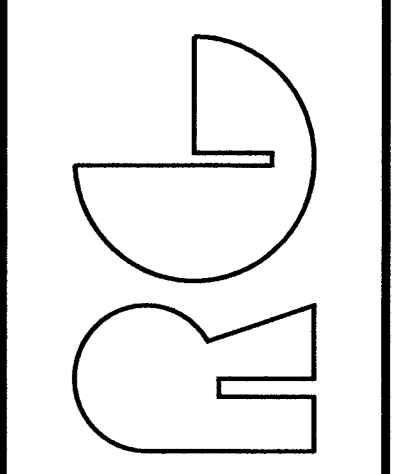
OCCUPANCY CLASSIFICATION A-3				
PLUMBING FACILITIES				
WATER CLOSETS		LAVATORIES		OTHER
MALE	FEMALE	MALE	FEMALE	1 SERVICE SINK
1 PER 150	1 PER 75	1 PER 200		

OCCUPANCY LOAD SCHEDULE		
ROOM	SQUARE FOOTAGE	OCCUPANCY LOAD
MEETING ROOM A102	7 SF NET (1968 SF)	202 PERSONS
MEETING ROOM A106	15 SF NET (486 SF)	32 PERSONS
MEETING ROOM A109	15 SF NET (609 SF)	40 PERSONS
TOTAL OCCUPANT LOAD		274 PERSONS

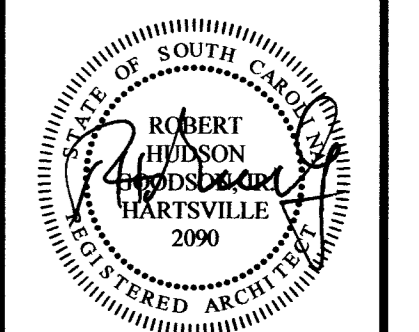
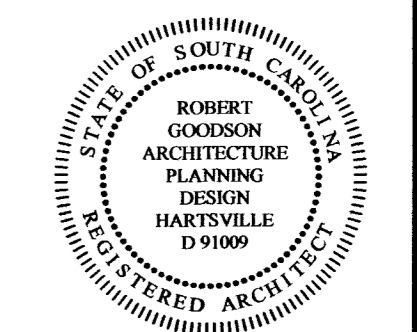


LIFE SAFETY PLAN
 SCALE: 1/8"=1'-0"

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RENOVATIONS FOR ONE CHURCH
 126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



DATE: 12/2023

SHEET

LS1

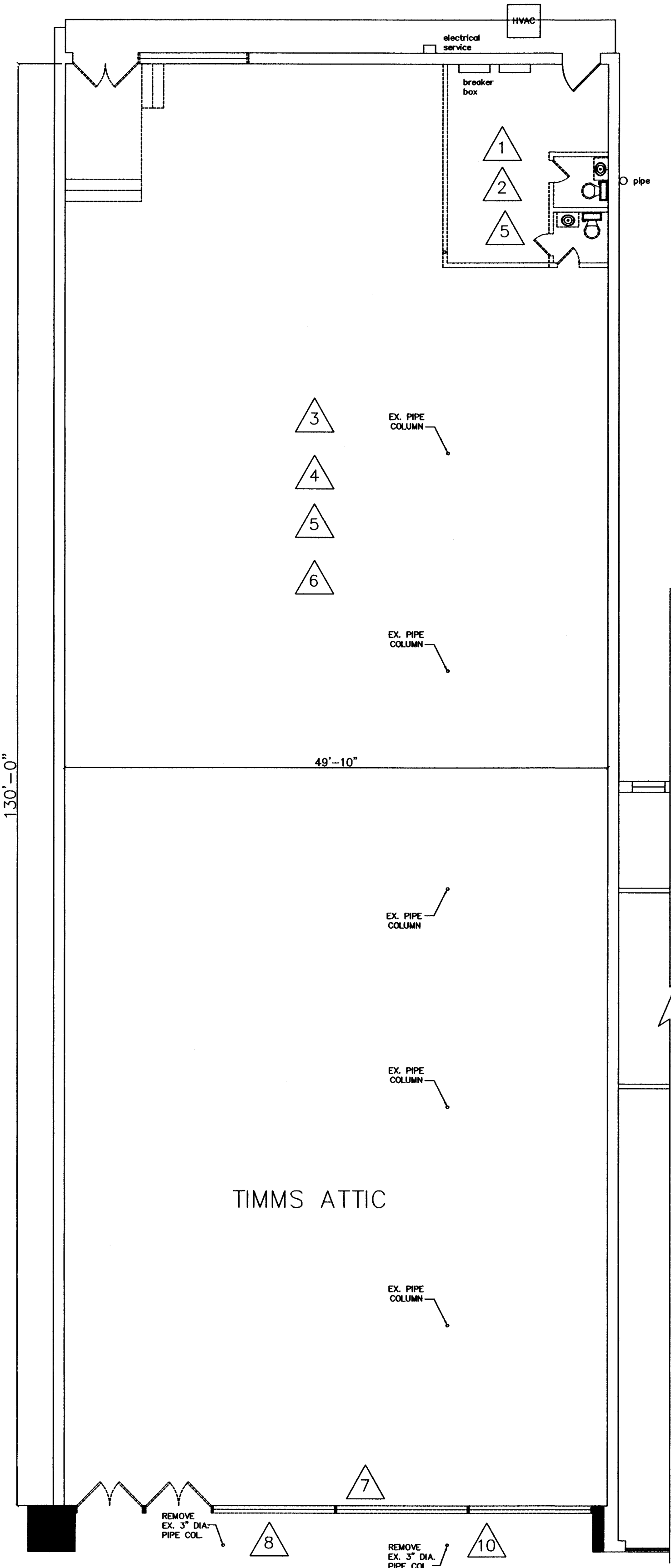
OF 1

DEMOLITION NOTES

1. REMOVE PLUMBING FIXTURES AND CAP PIPES.
2. REMOVE ALL TOILET WALLS.
3. REMOVE ALL CEILING TILES.
4. REMOVE HVAC AND ALL DUCT.
5. REMOVE ALL LIGHTING AND WIRING.
6. REMOVE ALL OVERHEAD WIRING.
7. REMOVE WALL, DOOR AND WINDOWS.
8. REMOVE EXTERIOR SOFFIT CEILING.
9. REMOVE REAR STOREFRONT.
10. REMOVE MASONRY/BEAM/COLUMNS PER STRUCTURAL DETAIL.

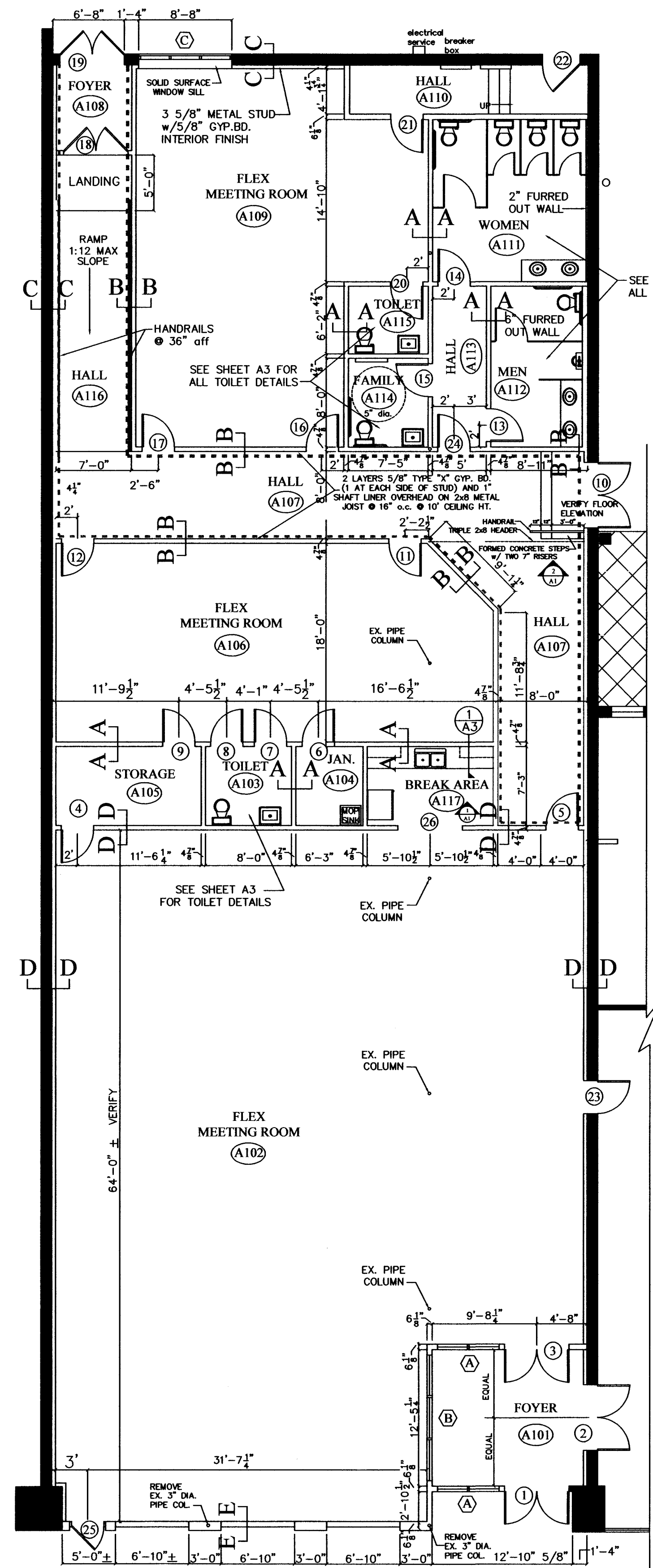
WALL LEGEND

- NEW WALLS
- EXISTING WALLS
- 1-HR RATED WALLS



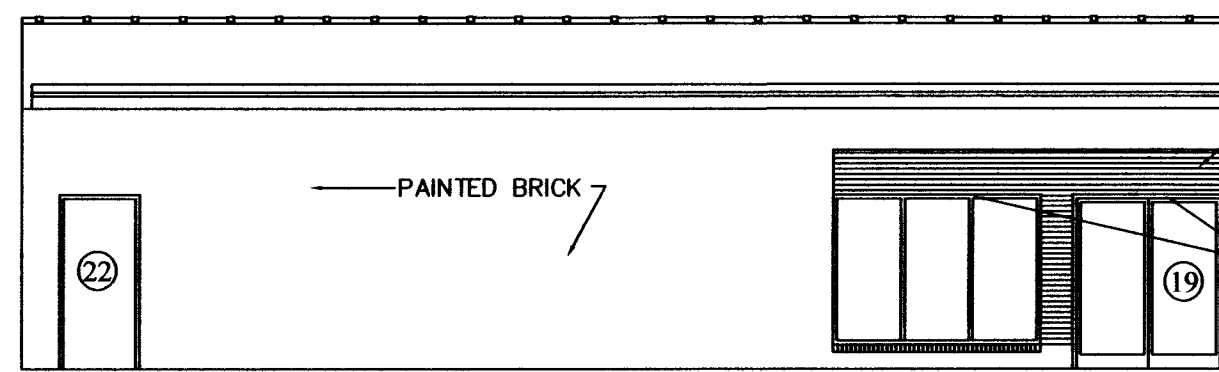
DEMOLITION FLOOR PLAN

SCALE: 1/8"=1'-0"



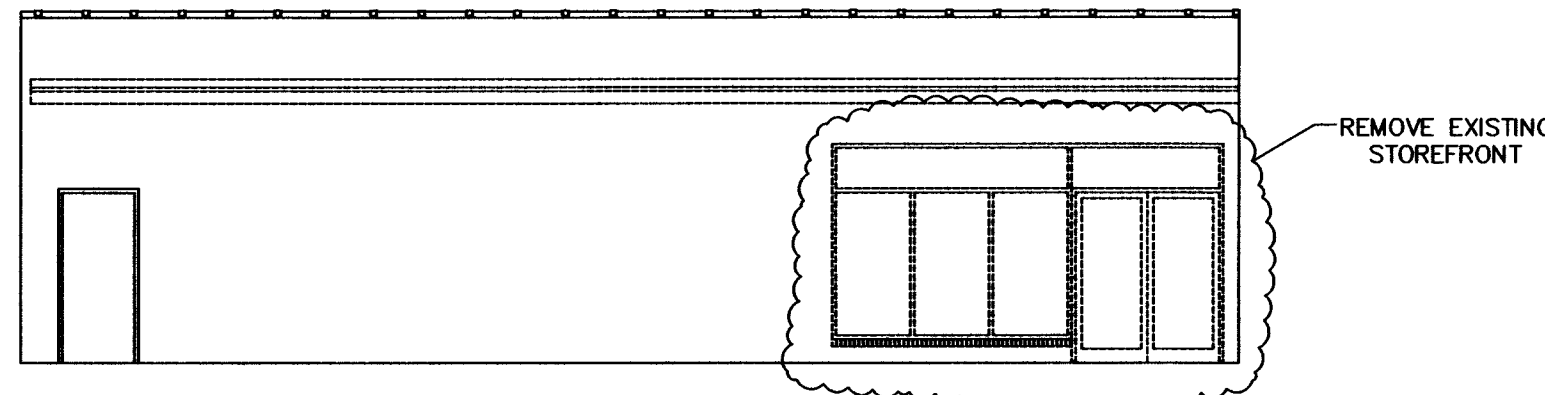
ARCHITECTURAL FLOOR PLAN

SCALE: 1/8"=1'-0"



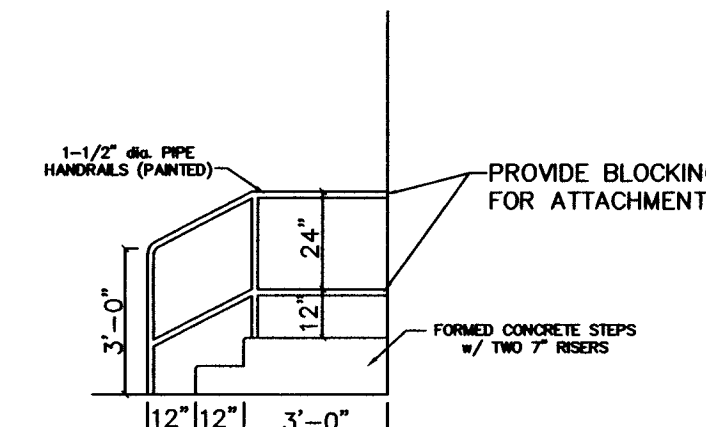
REAR ELEVATION - NEW

SCALE: 1/8"=1'-0"



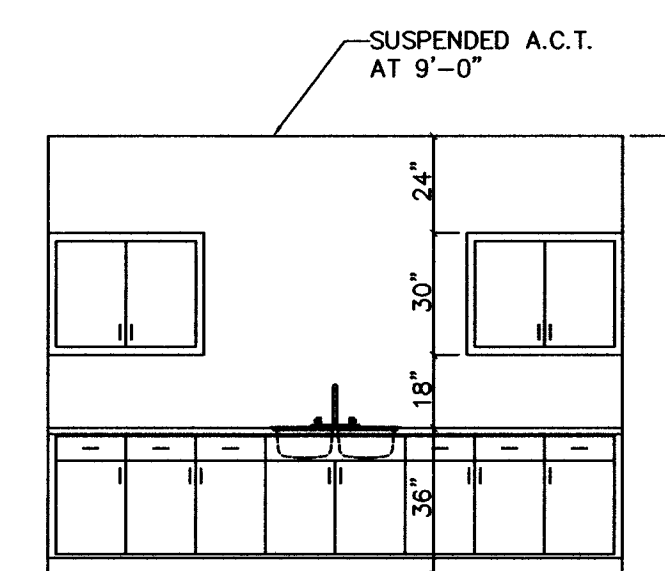
REAR ELEVATION - DEMOLITION

SCALE: 1/8"=1'-0"



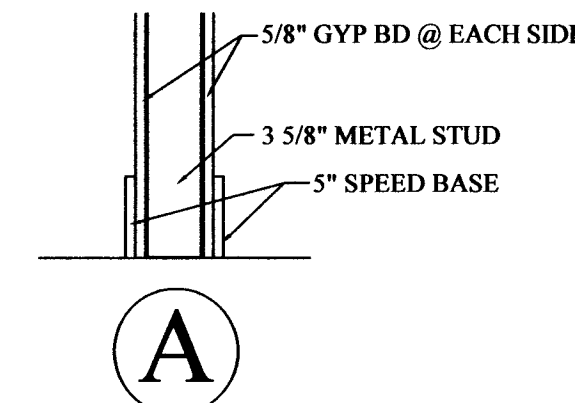
STEPS DETAIL

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

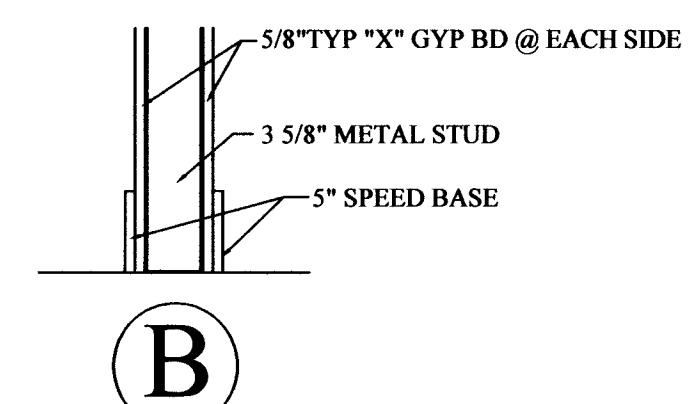


BREAK AREA CABINET DETAIL

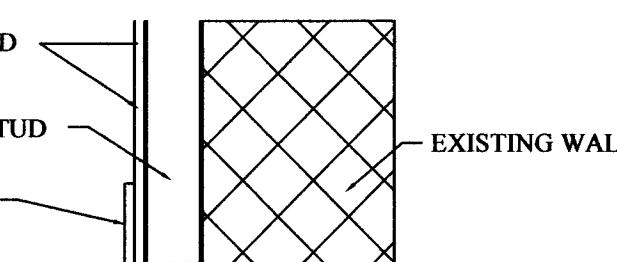
SCALE: 1/4" = 1'-0"



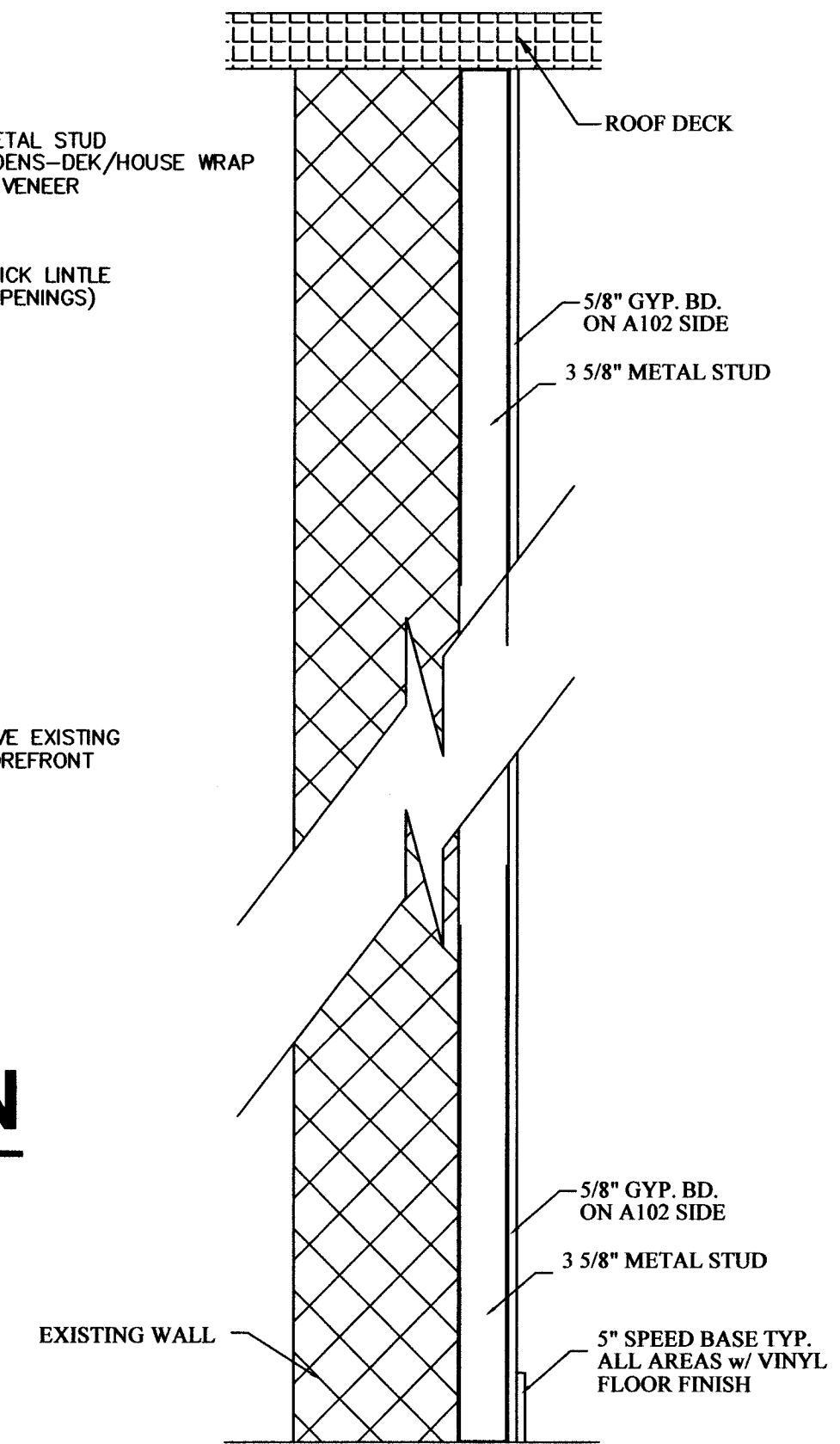
A



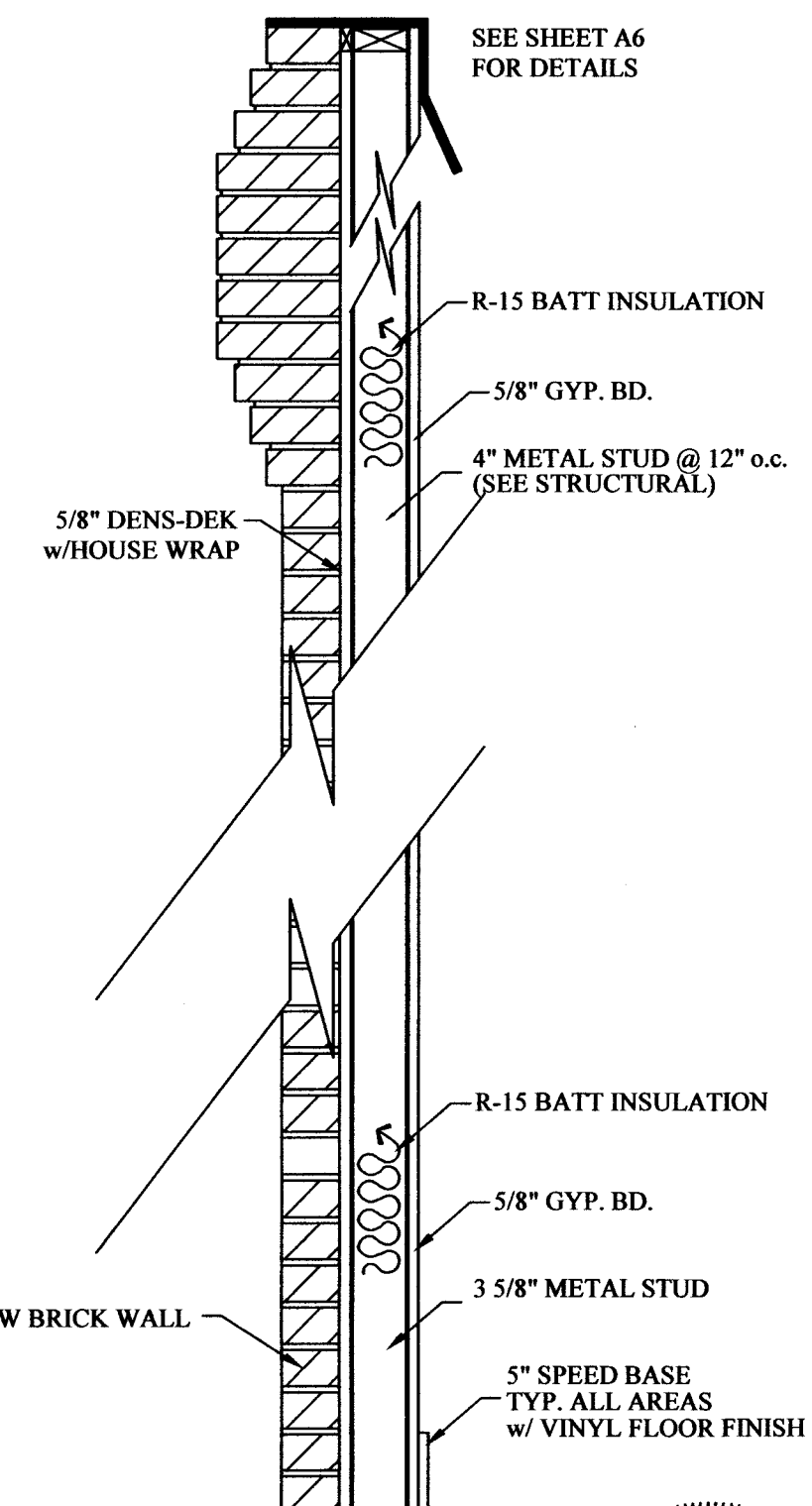
B



C



D

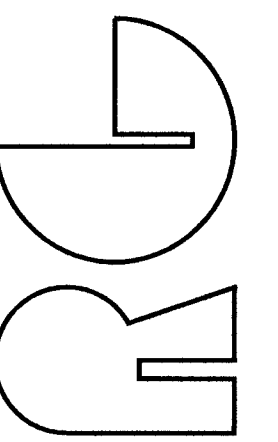


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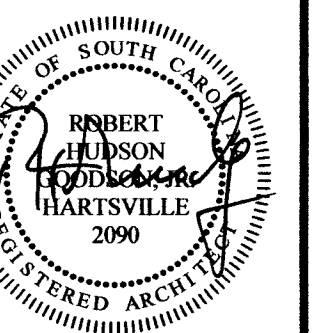
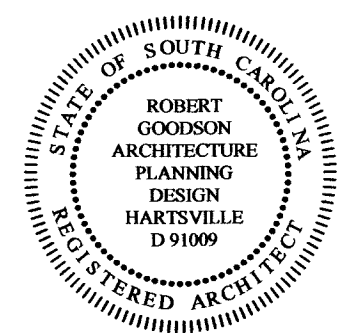
WALL DETAILS

SCALE: 1"=1'-0"

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RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



DATE: 12/2023

SHEET

A1

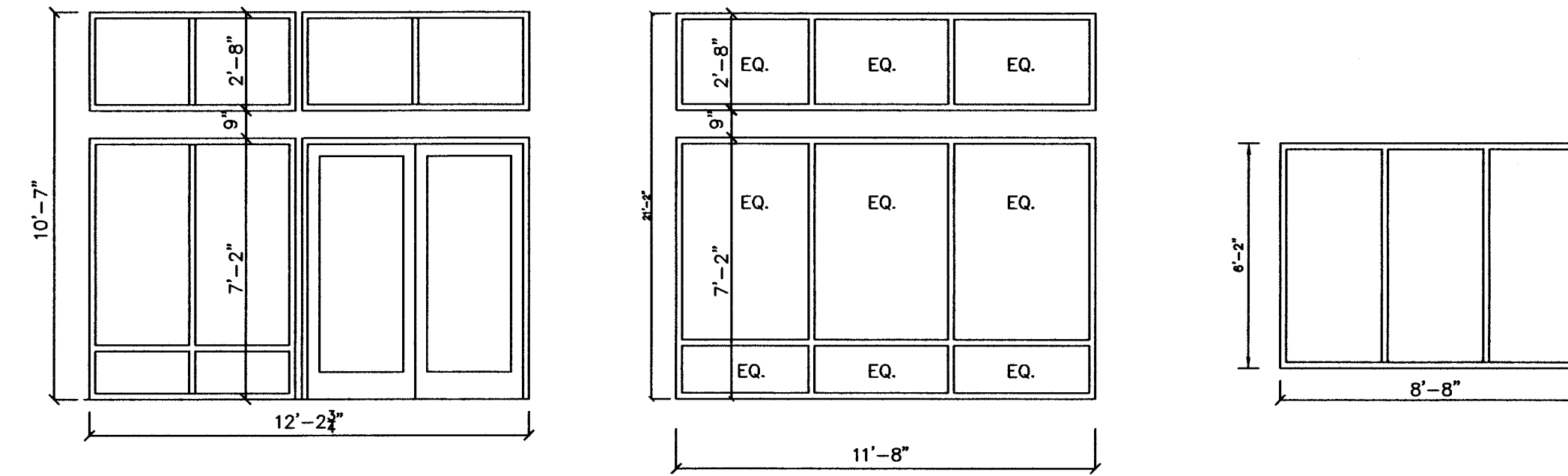
OF 6

ROOM FINISH SCHEDULE

NO.	ROOM TITLE	FLOOR	BASE	WALL	CEILING	C. HEIGHT	CLG. TRIM	REMARKS
A101	FOYER	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	10'-0"		
A102	FLEX MEETING ROOM	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	EXPOSED PAINTED STRUCTURE	OPEN		
A103	TOILET	CERAMIC TILE	CERAMIC TILE	GYP. BOARD PAINTED/ CERAMIC TILE	SUSP. ACOUST TILE & GRID	10'-0"		CERAMIC TILE ON WET WALL AND FLOOR ONLY
A104	STORAGE	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	10'-0"		
A105	STORAGE	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	10'-0"		
A106	FLEX MEETING ROOM	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	10'-0"		
A107	HALL	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	9'-0"		FIRE RATED CEILING @ 10'-0" AFF
A108	REAR FOYER	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	9'-0"		
A109	FLEX MEETING ROOM	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	10'-0"		
A110	HALL	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	10'-0"		
A111	WOMEN'S ADA TOILET	CERAMIC TILE	CERAMIC TILE	GYP. BOARD PAINTED/ CERAMIC TILE	SUSP. ACOUST TILE & GRID	10'-0"		CERAMIC TILE ON WET WALL AND FLOOR ONLY
A112	MEN'S ADA TOILET	CERAMIC TILE	CERAMIC TILE	GYP. BOARD PAINTED/ CERAMIC TILE	SUSP. ACOUST TILE & GRID	10'-0"		CERAMIC TILE ON WET WALL AND FLOOR ONLY
A113	HALL	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	10'-0"		
A114	FAMILY TOILET	CERAMIC TILE	CERAMIC TILE	GYP. BOARD PAINTED/ CERAMIC TILE	SUSP. ACOUST TILE & GRID	10'-0"		CERAMIC TILE ON WET WALL AND FLOOR ONLY
A115	TOILET	CERAMIC TILE	CERAMIC TILE	GYP. BOARD PAINTED/ CERAMIC TILE	SUSP. ACOUST TILE & GRID	10'-0"		CERAMIC TILE ON WET WALL AND FLOOR ONLY
A116	HALL	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	9'-0"		
A117	BREAK AREA	LVT	5" PAINTED WOOD	GYP. BOARD PAINTED	SUSP. ACOUST TILE & GRID	9'-0"		

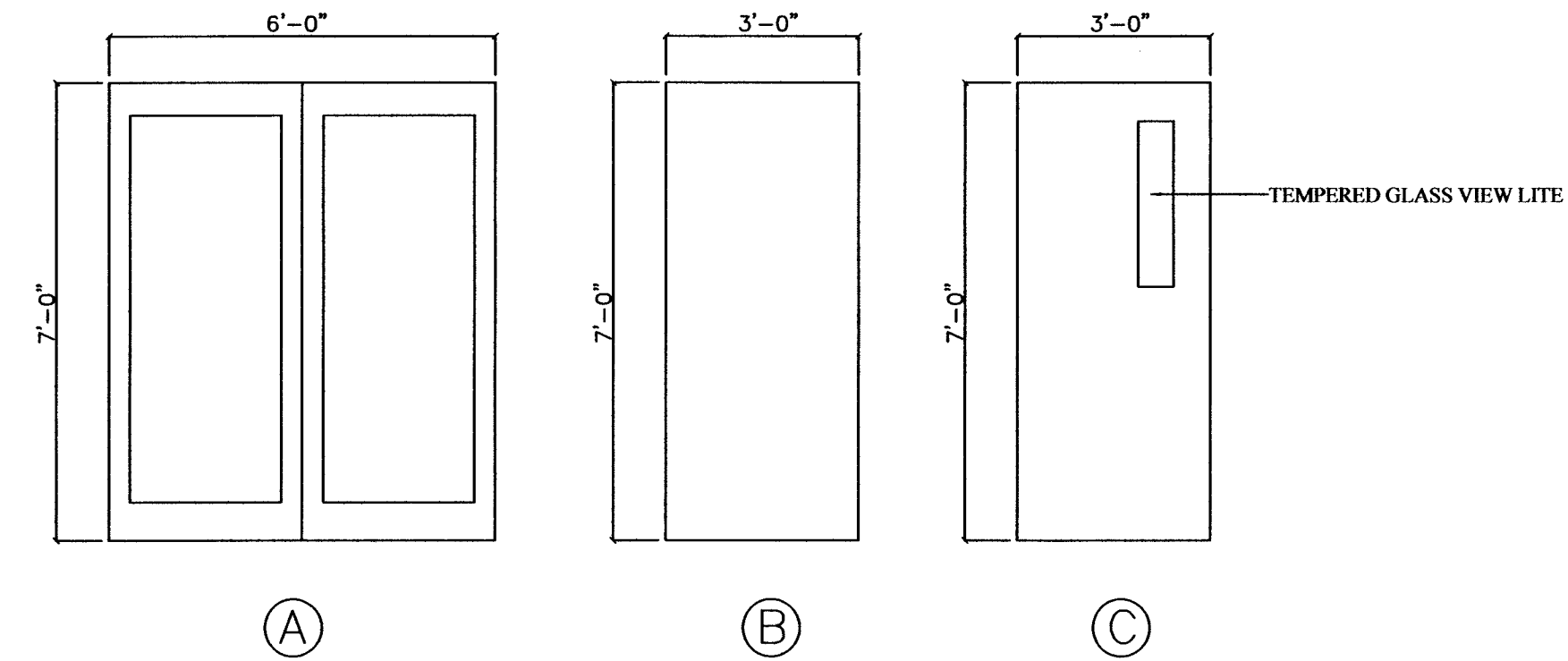
WINDOW SCHEDULE

LTR.	DIMENSIONS	TYPE	REMARKS
A	12'-2 3/4"x10'-7"	STOREFRONT	MATCH HEADER HEIGHT OF ADJOINING BUILDING
B	11'-8"x10'-7"	STOREFRONT	MATCH HEADER HEIGHT OF ADJOINING BUILDING
C	8'-8"x6'-2"	STOREFRONT	



STOREFRONT ELEVATIONS

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



DOOR TYPE ELEVATIONS

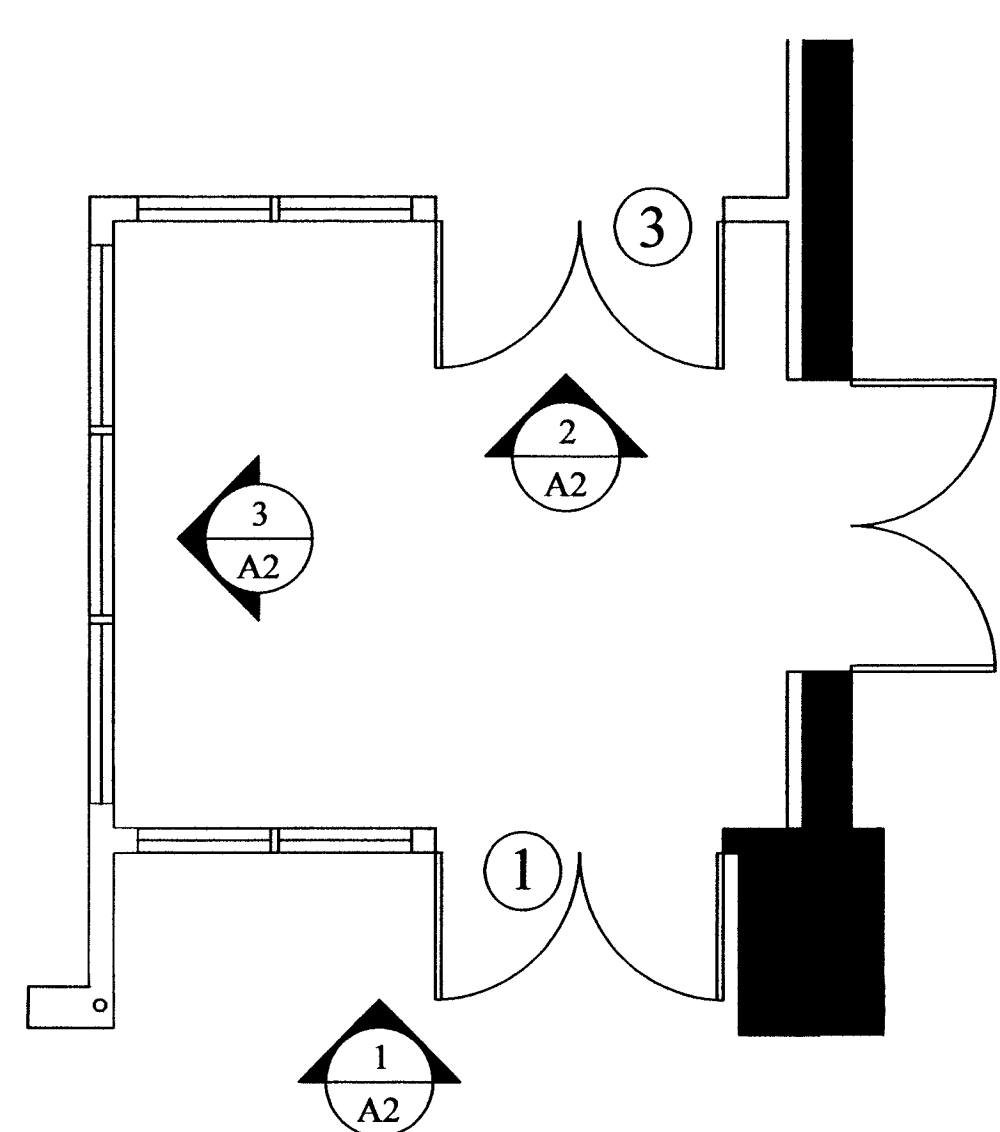
SCALE: 3/8"=1'-0"

GENERAL DOOR NOTES

- 1 - ALL EXTERIOR DOORS TO HAVE PANIC EXIT DEVICES, CLOSERS & PERIMETER WEATHERSTRIPPING.
- 2 - ALL DOORS TO BE 1 3/4" THICK.
- 3 - ALL DOOR HARDWARE TO BE OF COLOR AS SELECTED BY ARCHITECT.

DOOR SCHEDULE

NO.	TYPE	SIZE			MATERIAL	RATING	FRAME MATERIAL	DOOR DETAILS			REMARKS
		WIDTH	HEIGHT	THICKNESS				HEAD	JAMB	SILL	
1	A	2(3'-0")	7'-0"	1 3/4"	ALUM. STOREFRONT		ALUMINUM STOREFRONT	ALUMINUM	ALUMINUM	ALUMINUM	TEMPERED/INSULATED GLASS
2	B	2(3'-0")	7'-0"	1 3/4"	FLUSH STEEL	90 MINUTE	HOLLOW METAL	H2/A4	J2/A4	S2/A4	
3	A	2(3'-0")	7'-0"	1 3/4"	ALUM. STOREFRONT		ALUMINUM STOREFRONT	ALUMINUM	ALUMINUM	ALUMINUM	TEMPERED/INSULATED GLASS
4	B	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD		HOLLOW METAL	H1/A4	J3/A4	S3/A4	
5	B	3'-0"	7'-0"	1 3/4"	FLUSH METAL	20 MINUTE	HOLLOW METAL	H1/A4	J5/A4	S2/A4	
6	B	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD		HOLLOW METAL	H1/A4	J1/A4	S3/A3	
7	B	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD		HOLLOW METAL	H1/A4 (SIM.)	J1/A4 (SIM.)	S3/A4	
8	B	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD		HOLLOW METAL	H1/A4	J1/A4	S3/A4	
9	B	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD		HOLLOW METAL	H1/A4 (SIM.)	J1/A4 (SIM.)	S3/A4 (SIM.)	
10	A	2(3'-0")	7'-0"	1 3/4"	ALUM. STOREFRONT		ALUMINUM STOREFRONT	ALUMINUM	ALUMINUM	ALUMINUM	FURRED GYP.BD. JAMB/HEAD
11	C	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	20 MINUTE	HOLLOW METAL	H1/A4	J1/A4	S3/A4	
12	C	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	20 MINUTE	HOLLOW METAL	H1/A4	J1/A4	S3/A4	
13	B	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD		HOLLOW METAL	H1/A4	J4/A4	S3/A4	
14	B	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD		HOLLOW METAL	H1/A4	J4/A4 (SIM.)	S3/A4 (SIM.)	
15	B	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	20 MINUTE	HOLLOW METAL	H1/A4	J4/A4	S3/A4	
16	C	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	20 MINUTE	HOLLOW METAL	H1/A4	J1/A4	S3/A4	
17	C	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	20 MINUTE	HOLLOW METAL	H1/A4 (SIM.)	J1/A4 (SIM.)	S3/A4 (SIM.)	
18	A	2(3'-0")	7'-0"	1 3/4"	ALUM. STOREFRONT		ALUMINUM STOREFRONT	ALUMINUM	ALUMINUM	ALUMINUM	METAL STUD/GYP.BD. HEADER ABOVE
19	A	2(3'-0")	7'-0"	1 3/4"	ALUM. STOREFRONT		ALUMINUM STOREFRONT	ALUMINUM	ALUMINUM	ALUMINUM	METAL STUD/GYP.BD. HEADER ABOVE
20	B	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD		HOLLOW METAL	H1/A4	J4/A4 (SIM.)	S3/A4 (SIM.)	
21	B	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD		HOLLOW METAL	H1/A4	J1/A4 (SIM.)	S3/A4 (SIM.)	
22	EXISTING	3'-6"	7'-0"	1 3/4"							RE-USE EXISTING DOOR - PAINT
23	B	3'-0"	7'-0"	1 3/4"	FLUSH STEEL	90 MINUTE	HOLLOW METAL	H2/A4 (SIM.)	J2/A4 (SIM.)	S2/A4 (SIM.)	
24	C	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD	20 MINUTE	HOLLOW METAL	H1/A4	J1/A4	S3/A4	
25	B	3'-0"	7'-0"	1 3/4"	FLUSH STEEL		HOLLOW METAL	H1/A4	J1/A4	S3/A4	
26		6'-0" C.O.	7'-0"				HOLLOW METAL	H5/A4	J6/A4	S6/A4	



ENLARGED PLAN - FOYER A101

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



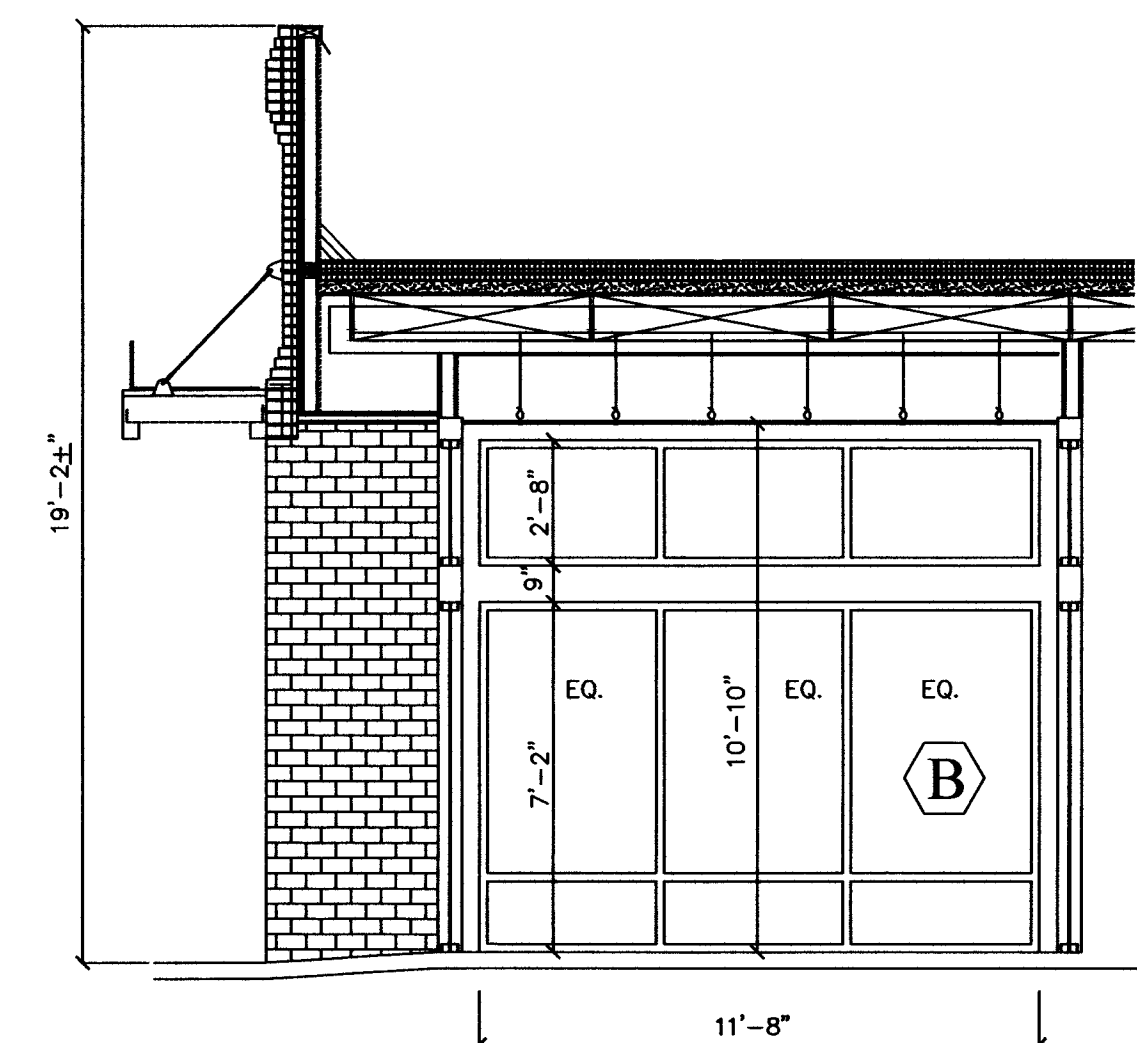
1 FOYER ELEVATION

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



2 FOYER ELEVATION

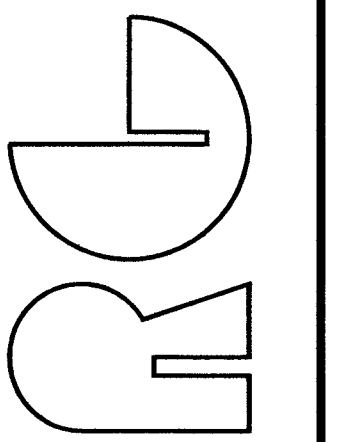
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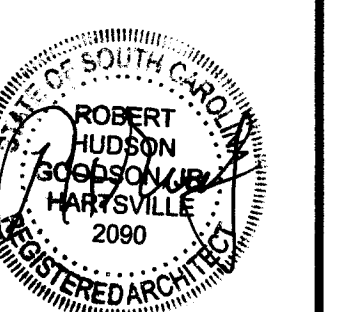
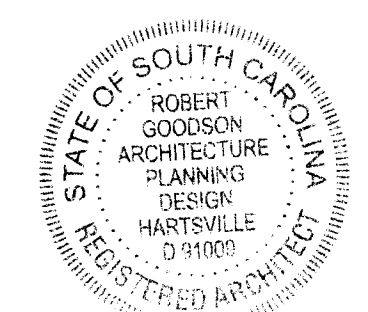
3 FOYER ELEVATION

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

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RENOVATIONS FOR
ONE CHURCH
 126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.

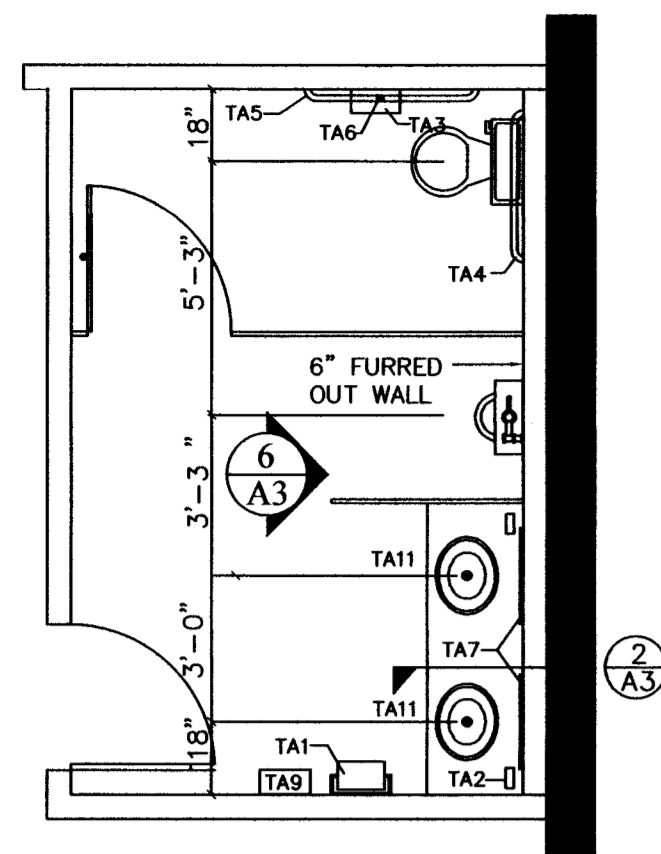


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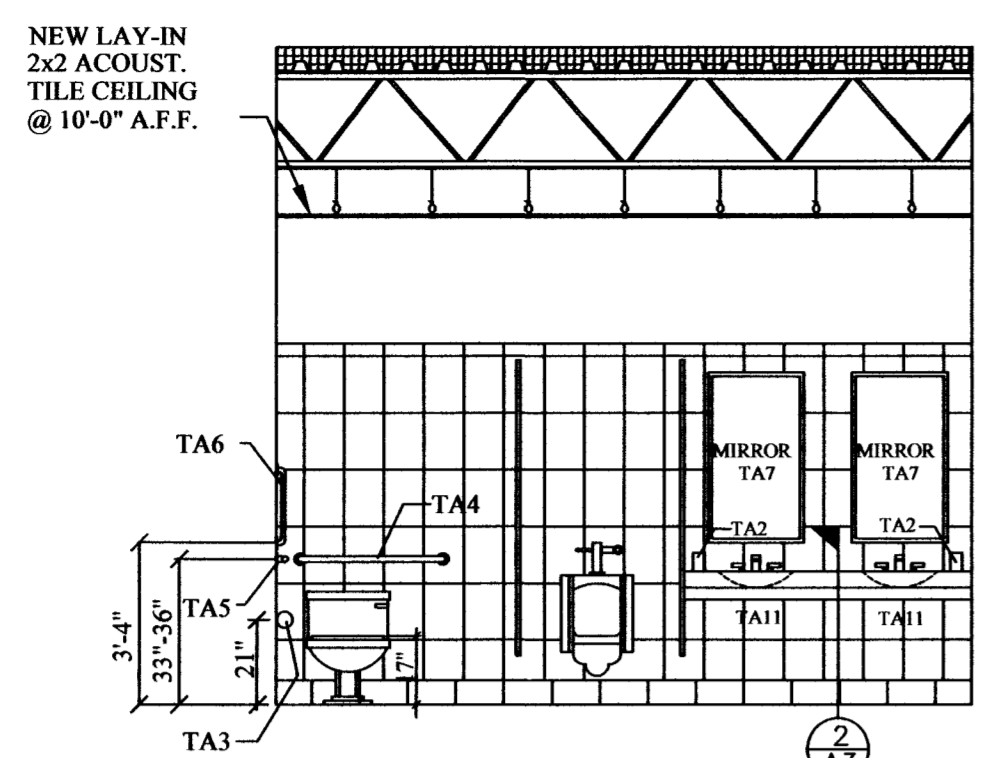
SHEET

A2

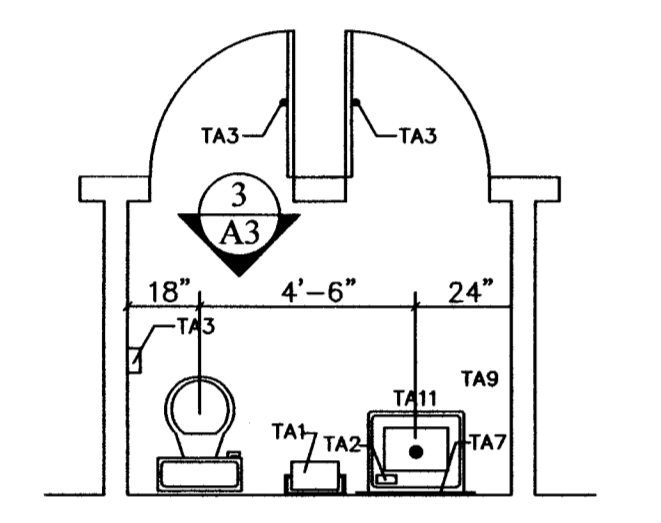
OF 6



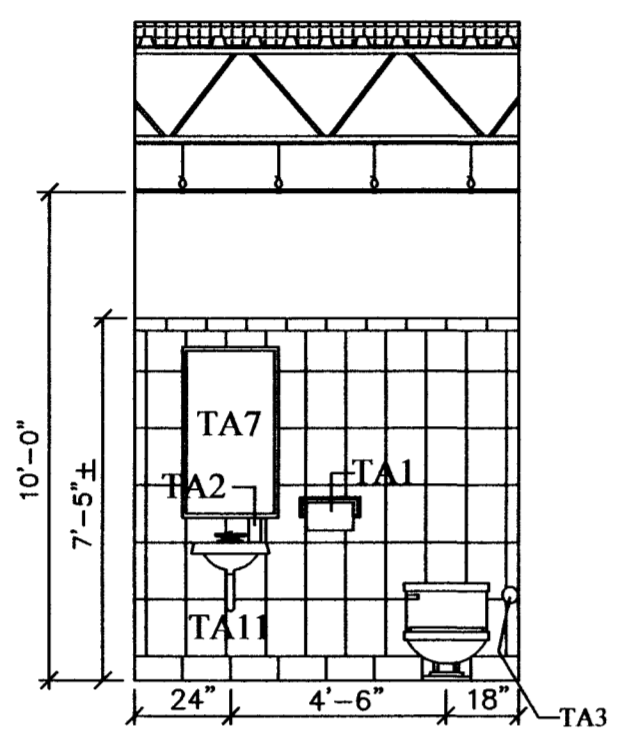
MEN A112
SCALE: 1/4" = 1'-0"



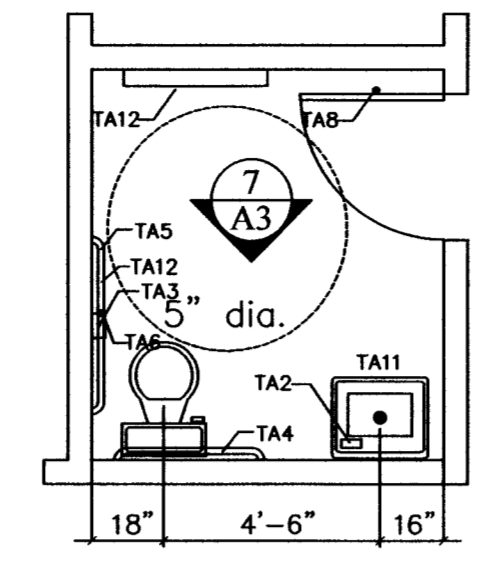
6 MEN A112
A3 SCALE: 1/4" = 1'-0"



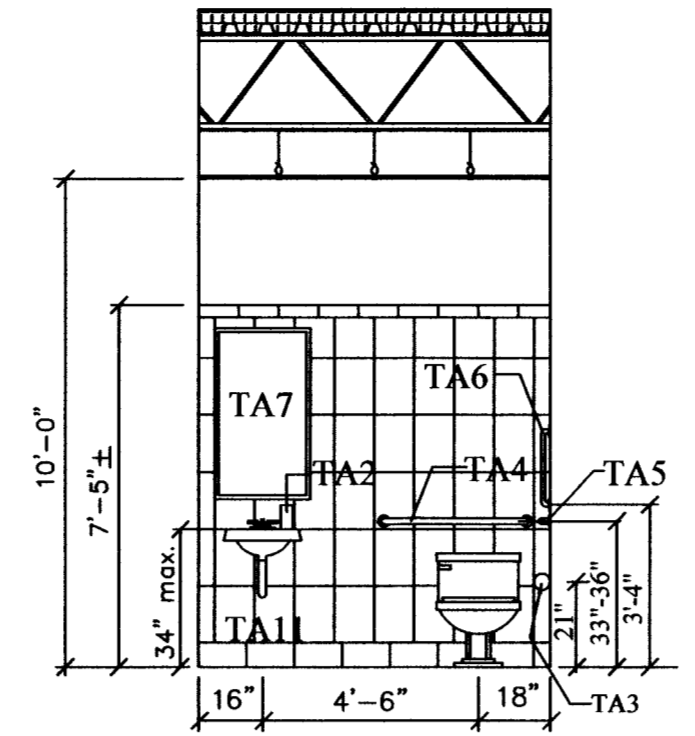
TOILET A103
SCALE: 1/4" = 1'-0"



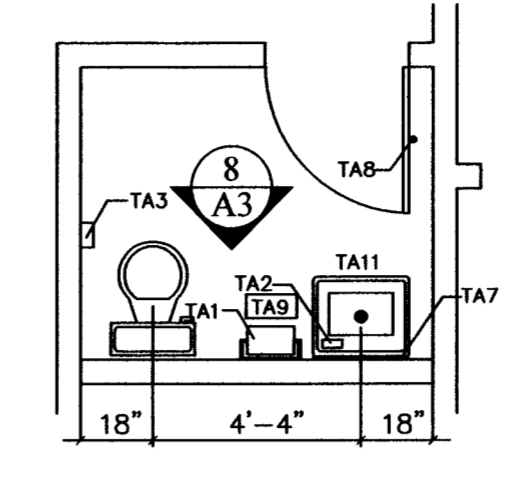
3 TOILET A103
A3 SCALE: 1/4" = 1'-0"



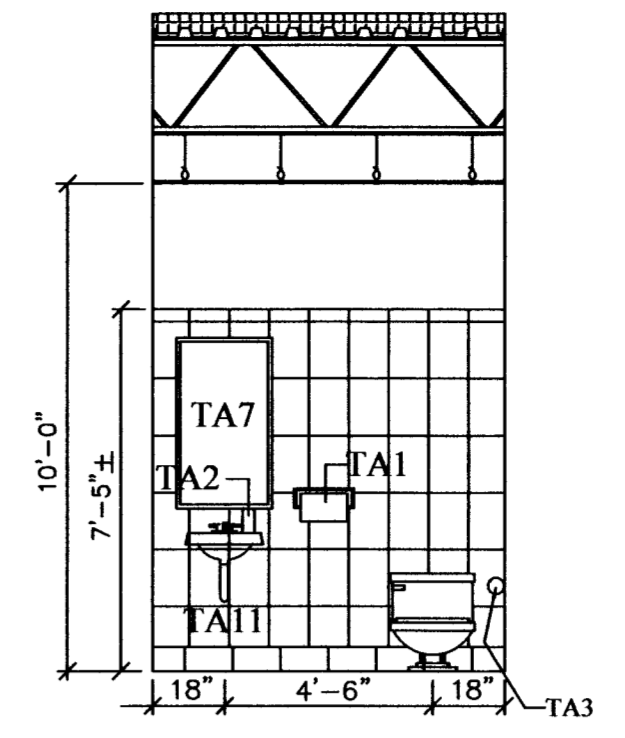
FAMILY A114
SCALE: 1/4" = 1'-0"



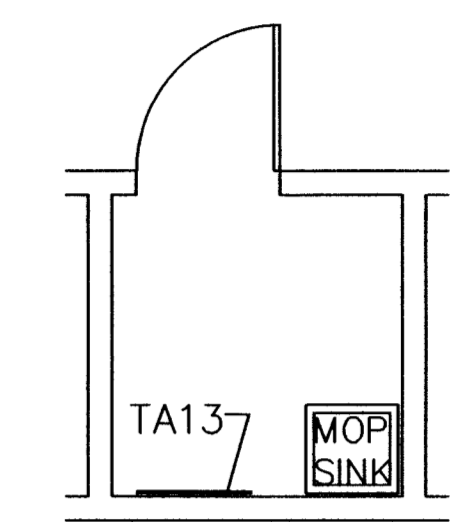
7 FAMILY A114
A3 SCALE: 1/4" = 1'-0"



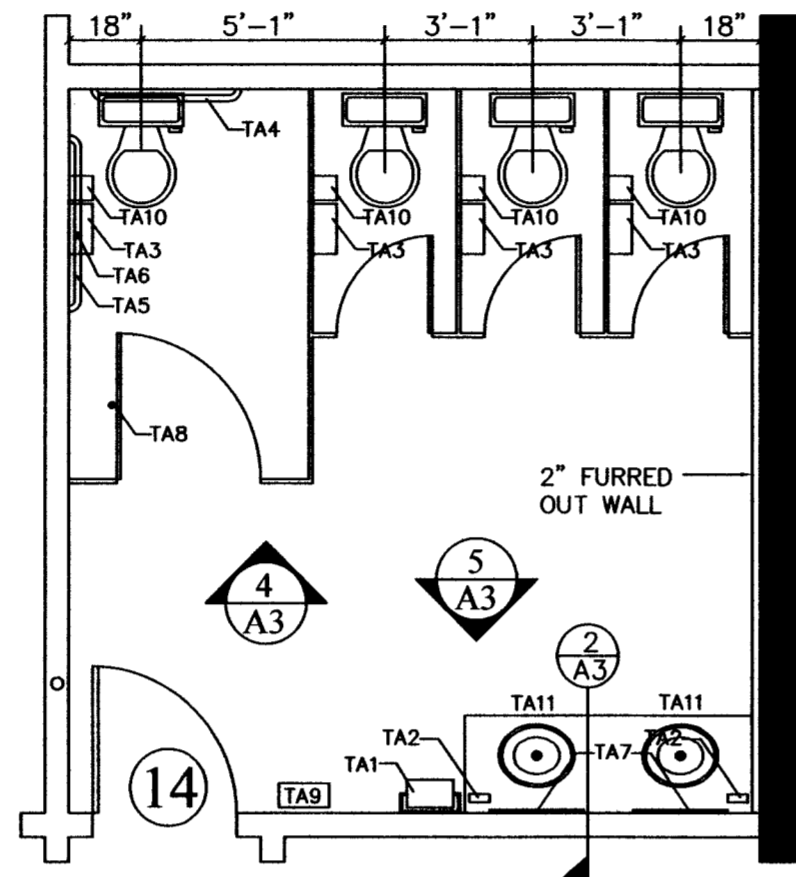
TOILET A115
SCALE: 1/4" = 1'-0"



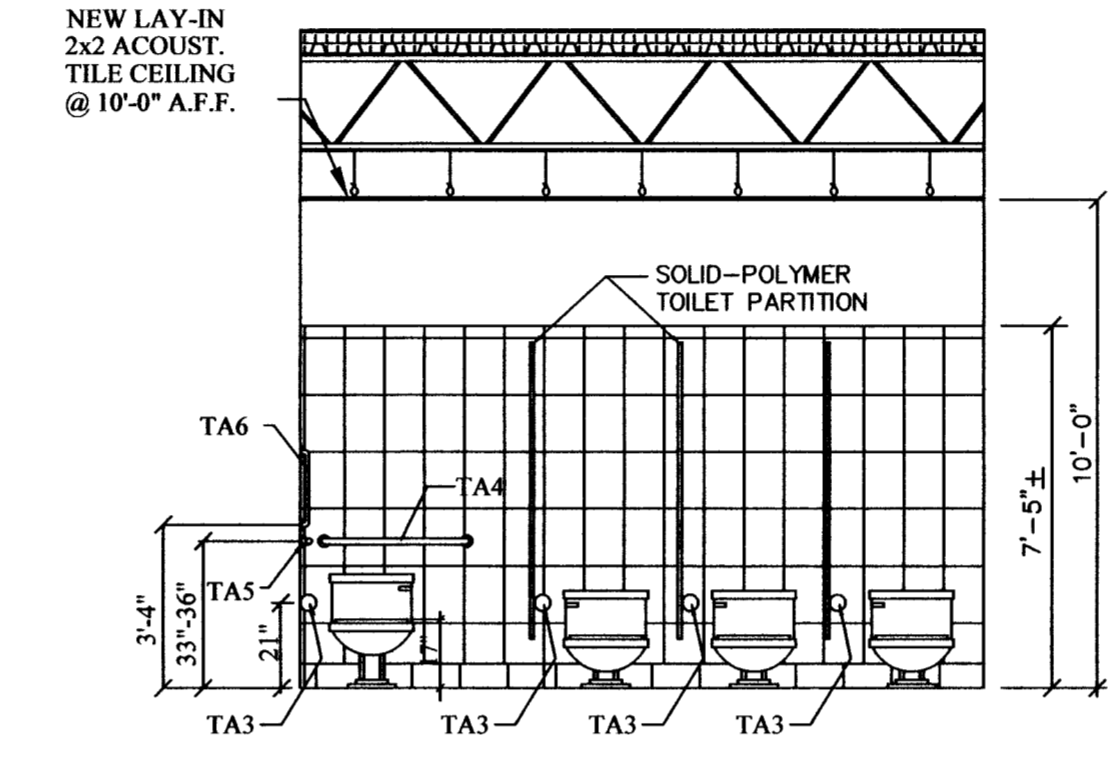
8 TOILET A115
A3 SCALE: 1/4" = 1'-0"



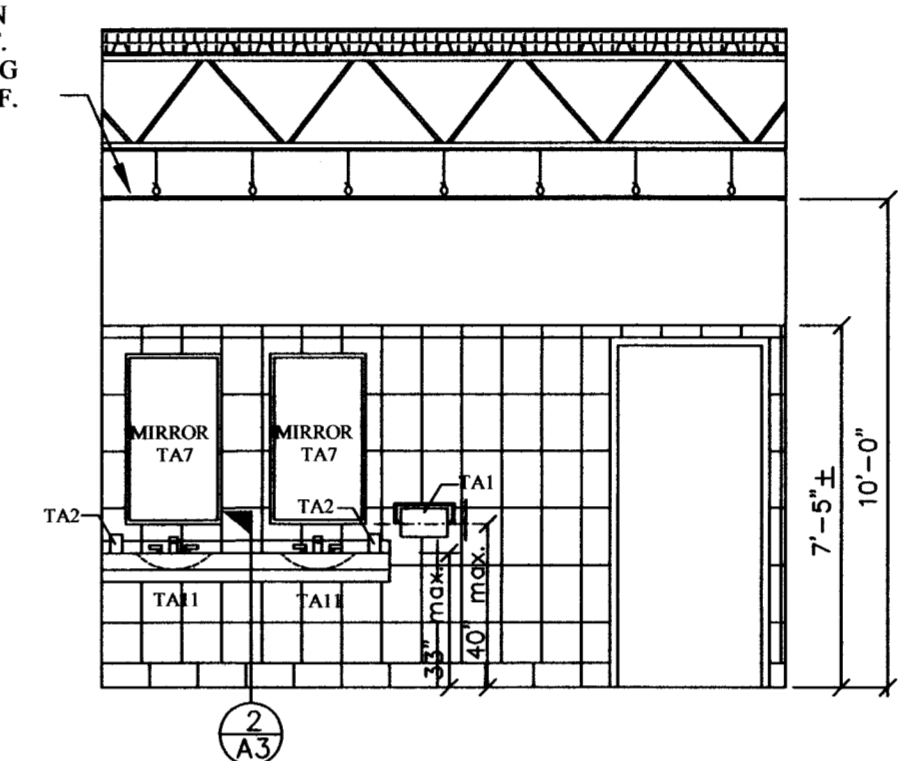
TOILET A103
SCALE: 1/4" = 1'-0"



WOMEN A111
SCALE: 1/4" = 1'-0"

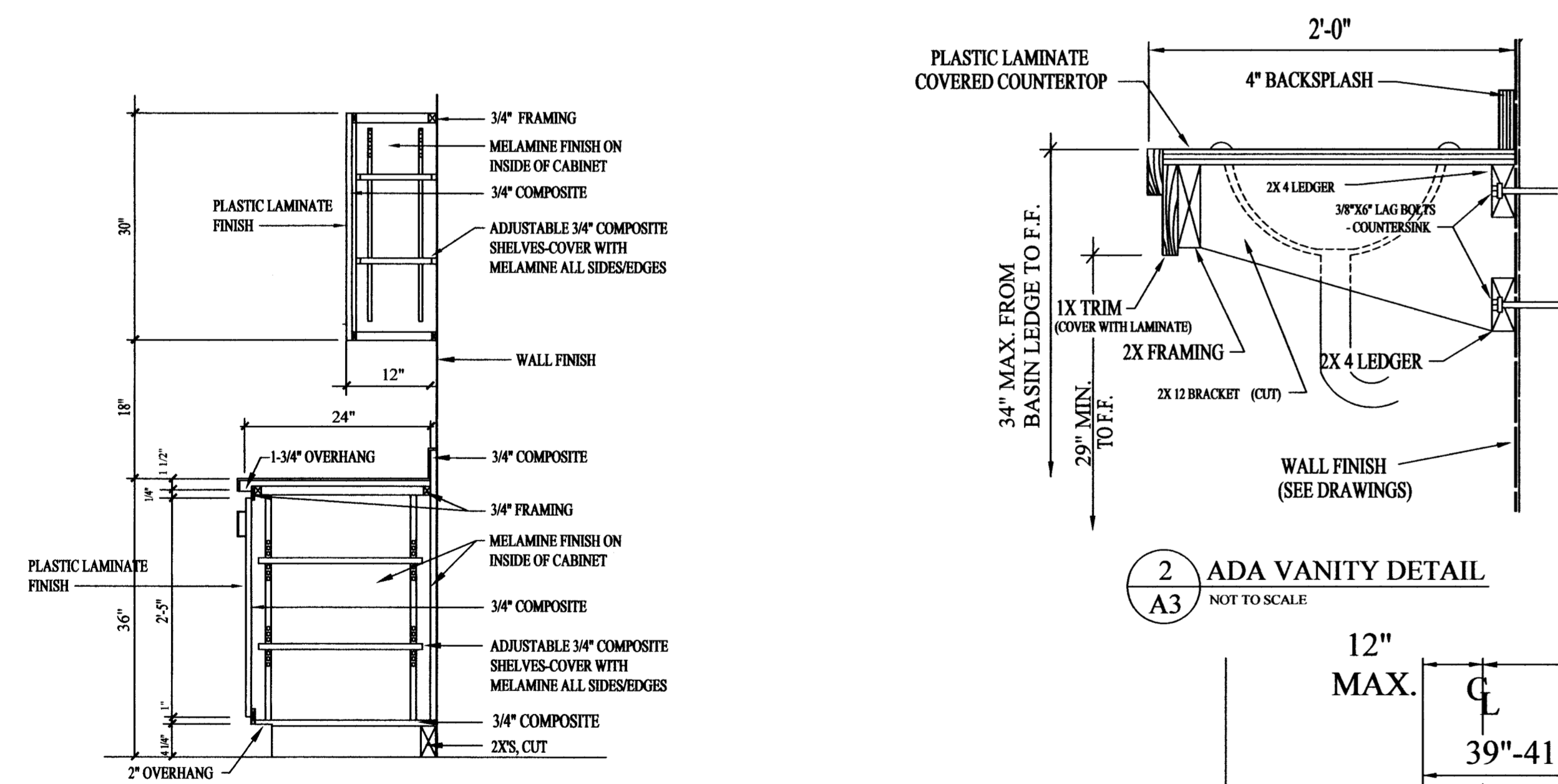


4 WOMEN A111
A3 SCALE: 1/4" = 1'-0"

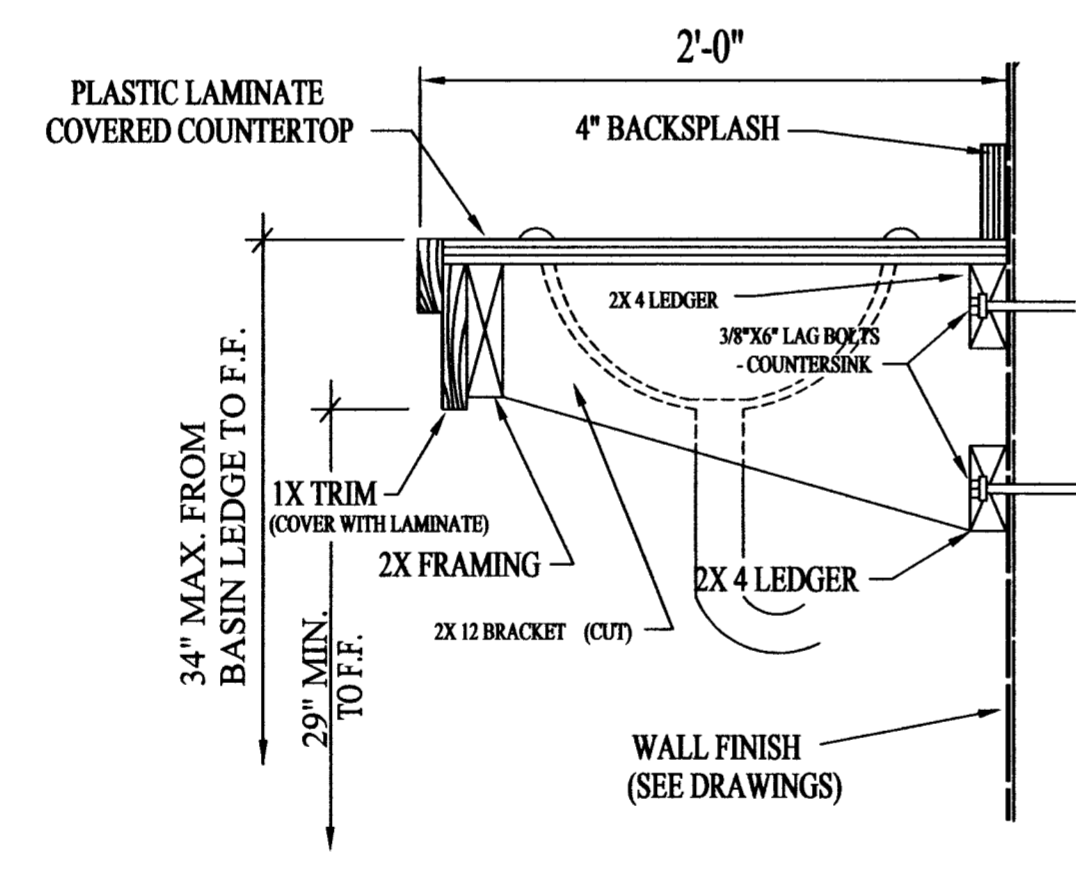


5 WOMEN A111
A3 SCALE: 1/4" = 1'-0"

ENLARGED TOILET PLANS & ELEVATIONS



1 TYPICAL CABINET SECTION
A3 SCALE: 1/2" = 1'-0"



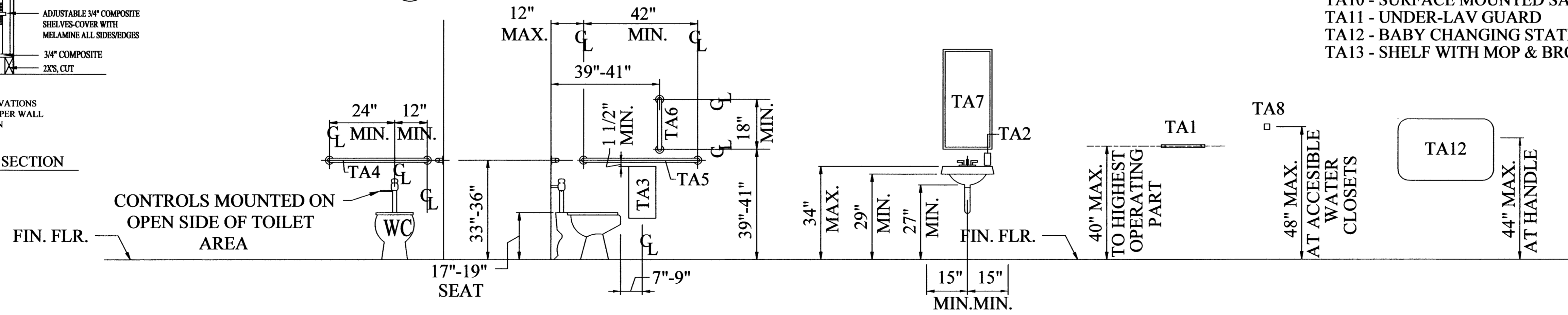
2 ADA VANITY DETAIL
A3 NOT TO SCALE

TOILET COMPARTMENT SCHEDULE SPECIFICATION #102113

ROOM #	ROOM NAME	WALL	DOOR	URINAL SCREEN
103	TOILET			
111	WOMEN	X	X	
112	MEN	X	X	X
114	FAMILY ADA			
115	TOILET			

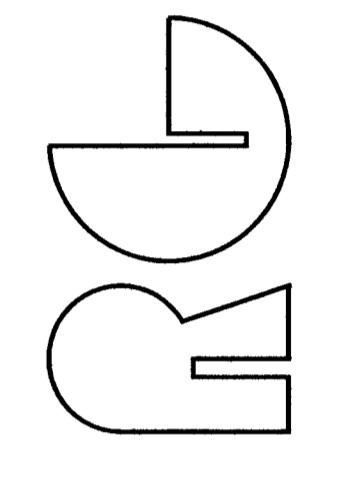
TOILET ACCESSORY LEGEND

- TA1 - SURFACE MOUNTED PAPER TOWEL DISPENSER
- TA2 - SOAP DISPENSER (OWNER PROVIDED)
- TA3 - SURFACE MOUNTED TOILET TISSUE DISPENSER
- TA4 - GRAB BAR (36")
- TA5 - GRAB BAR (42")
- TA6 - GRAB BAR (18") (VERTICAL)
- TA7 - SURFACE MOUNTED MIRROR (24"W X 42"H)
- TA8 - COAT HOOK
- TA9 - WASTE RECEPTACLE
- TA10 - SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
- TA11 - UNDER-LAV GUARD
- TA12 - BABY CHANGING STATION
- TA13 - SHELF WITH MOP & BROOM HOLDER

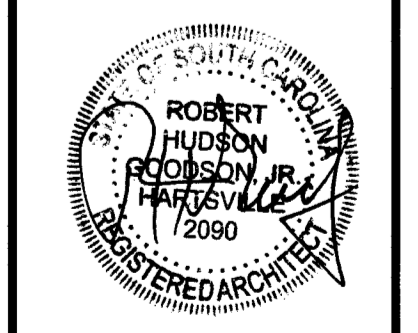
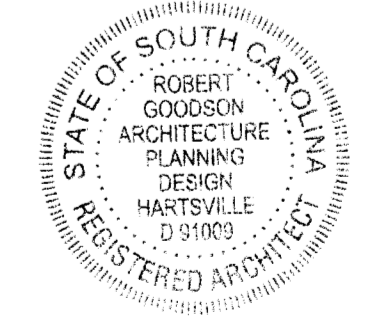


TYPICAL ACCESSORY MOUNTING HEIGHTS (FOR A.D.A. COMPLIANCE)

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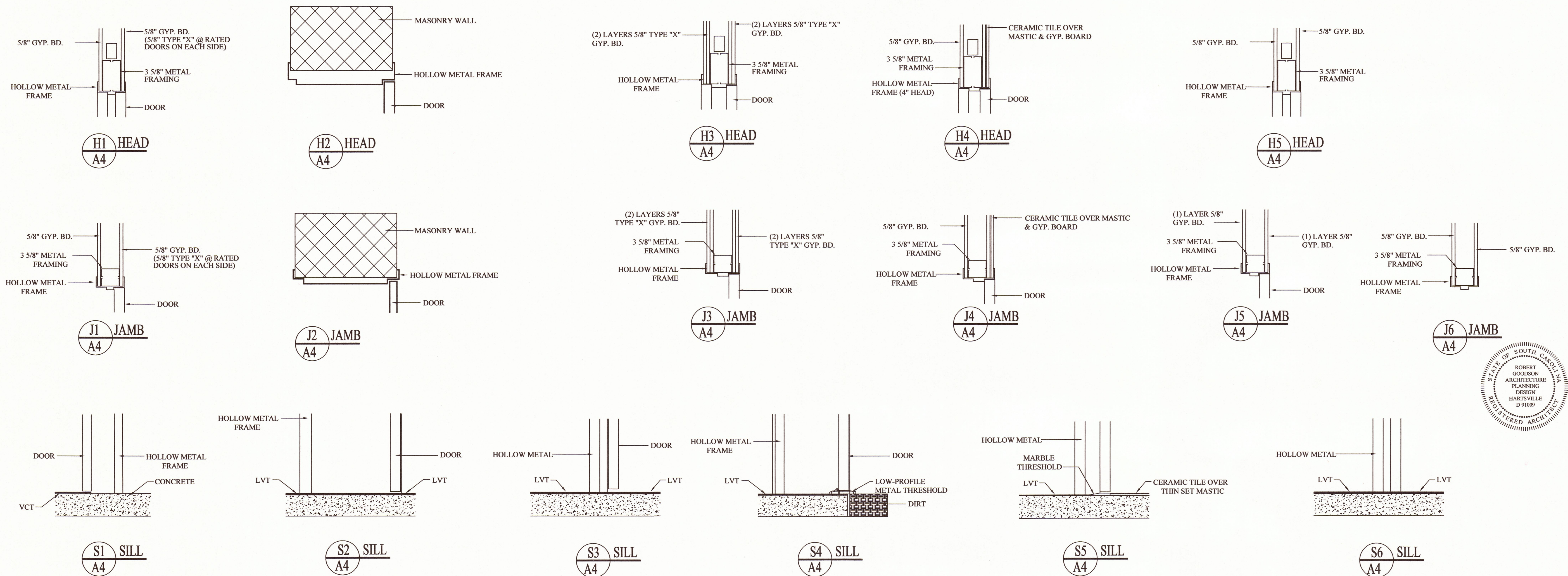
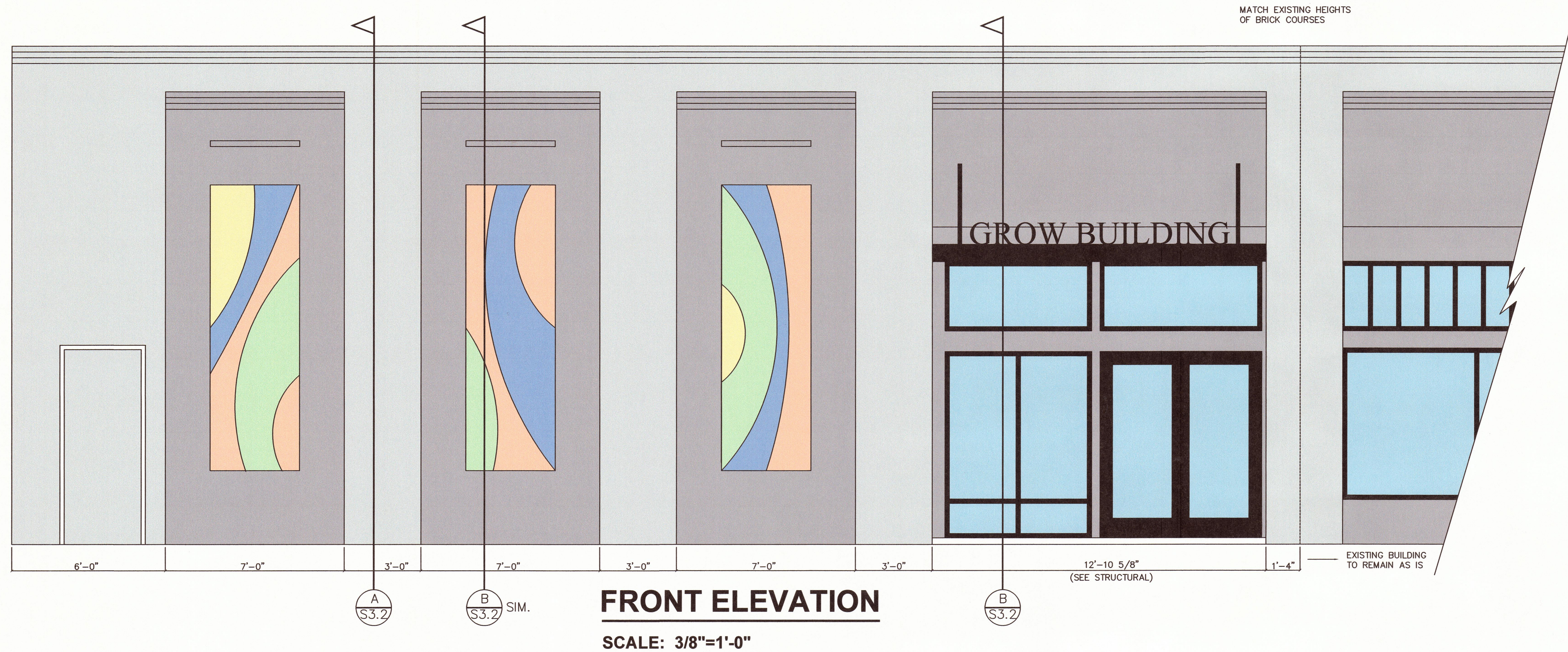


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SHEET

A3

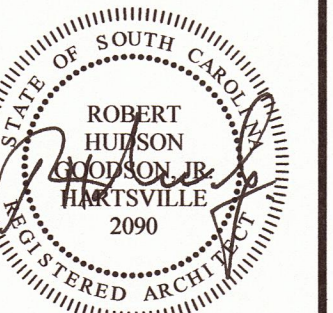
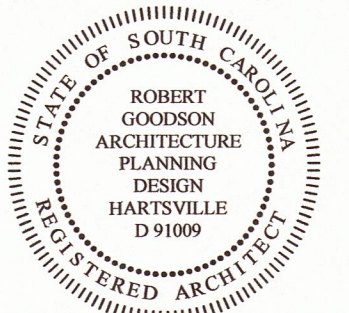
OF 6



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RENOVATIONS FOR
ONE CHURCH
 126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.

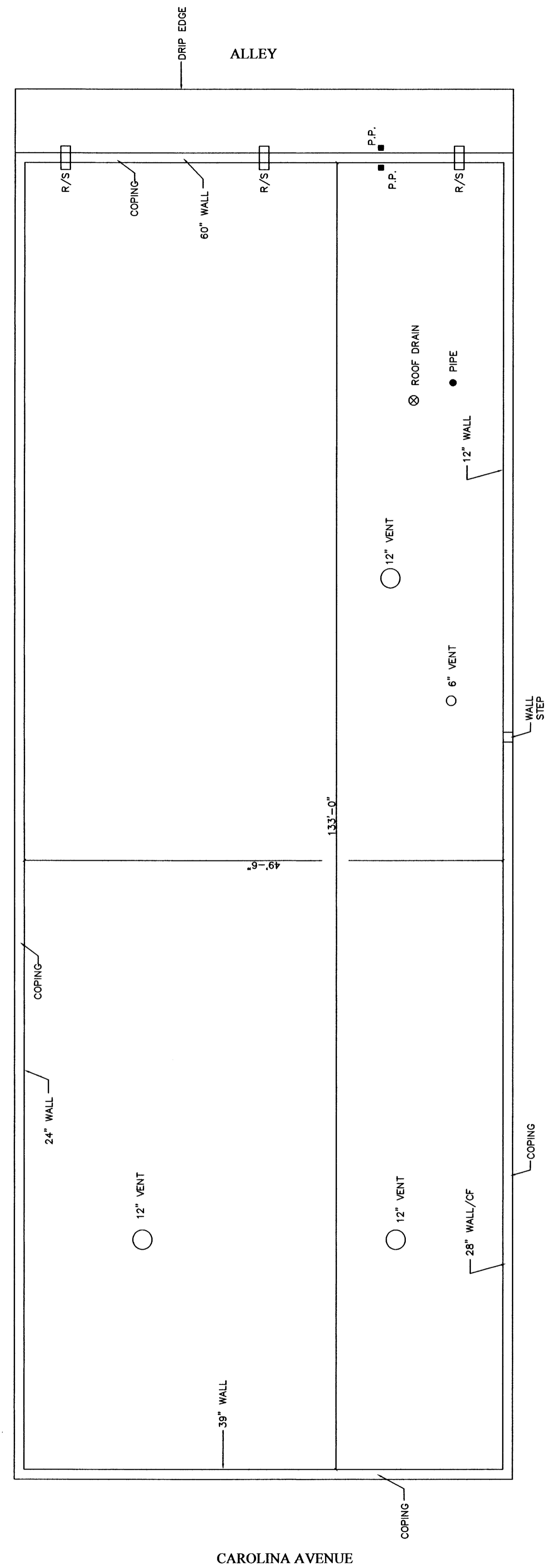


DATE: 12/2023

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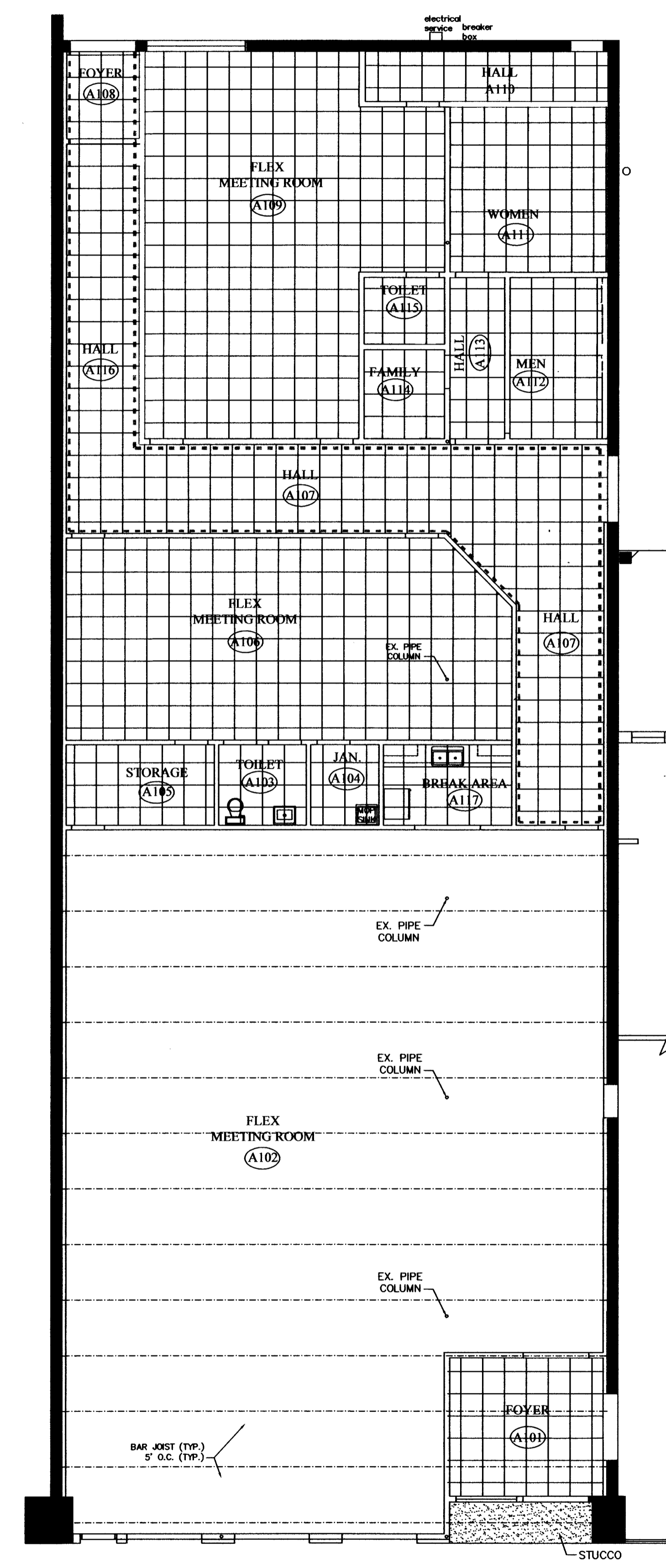
A4

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EXISTING ROOF PLAN
SCALE: 1/8"=1'-0"

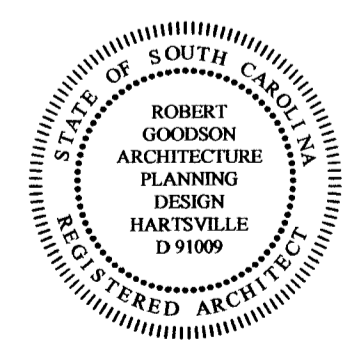
NOTE: REFER TO ROOFING SPECS TO DETERMINE SCOPE OF WORK - SEE ROOFING ALLOWANCE TO BE INCLUDED IN BASE BID



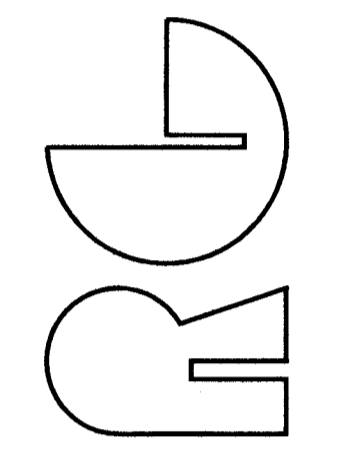
A REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

WALL LEGEND

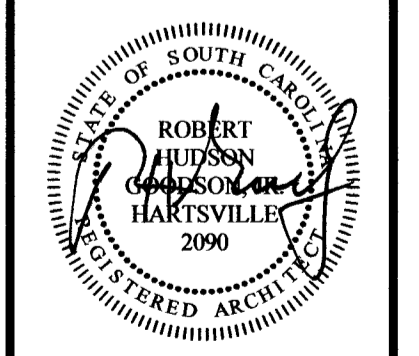
	NEW WALLS
	EXISTING WALLS
	1-HR RATED WALLS



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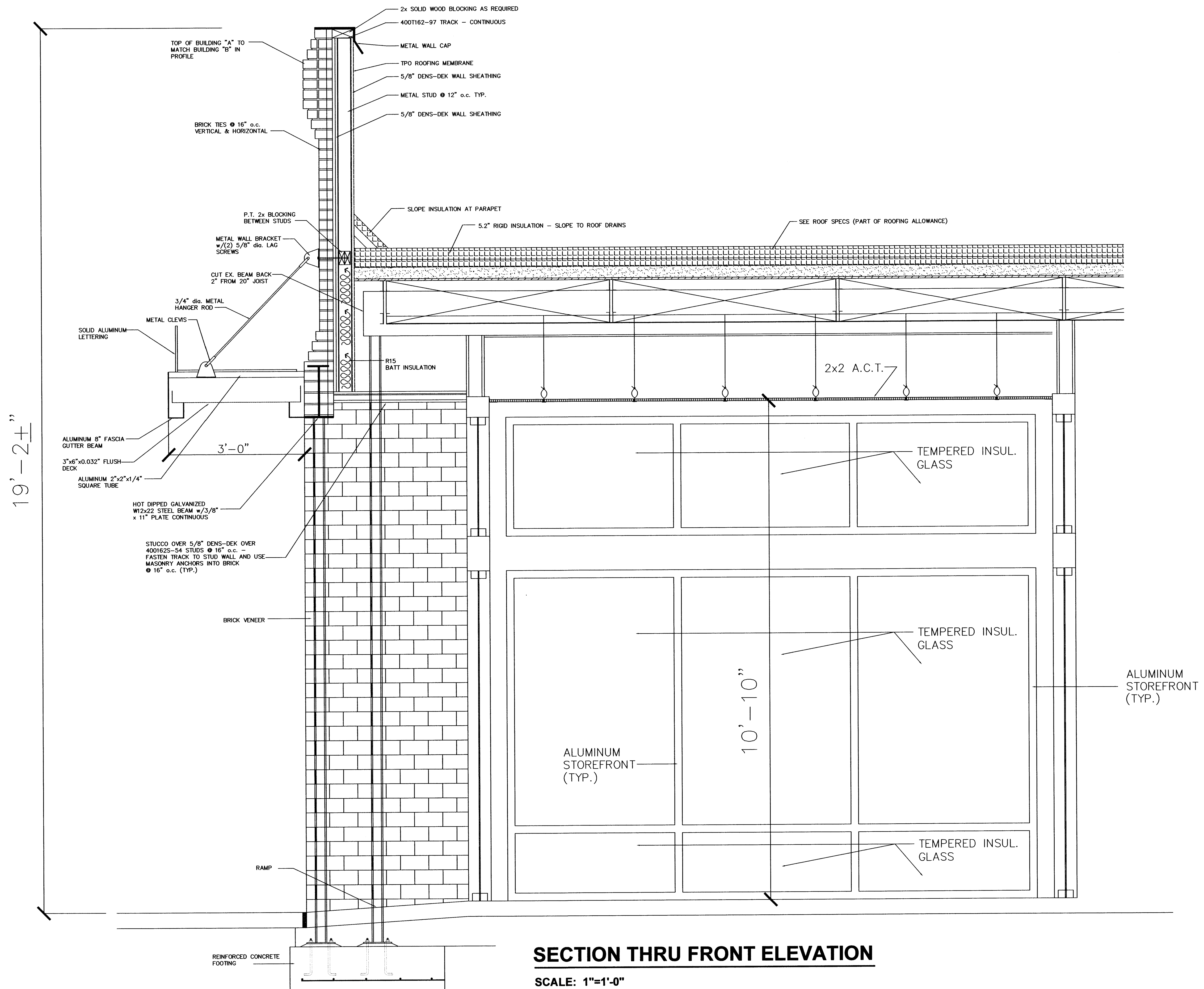


RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



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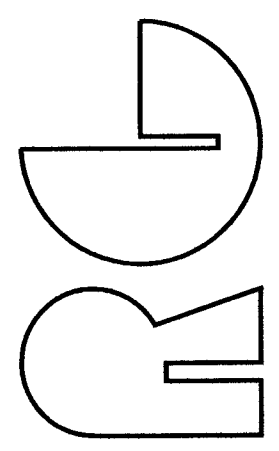
19'-2±"

REINFORCED CONCRETE FOOTING

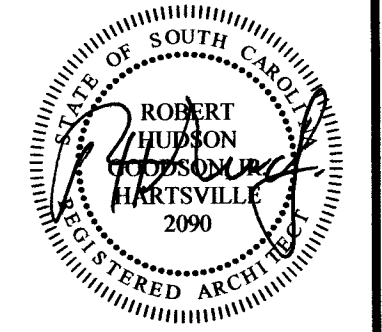
SECTION THRU FRONT ELEVATION

SCALE: 1"=1'-0"

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RENOVATIONS FOR
ONE CHURCH
 126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



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STRUCTURAL DESIGN CRITERIA			
BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE (IBC)		
DEAD LOADS:	WEIGHT OF MATERIALS AND CONSTRUCTION WEIGHT OF FIXED SERVICE EQUIPMENT		
LIVE LOADS:	CONCENTRATED LOAD DISTRIBUTED LOAD		
LOBBIES & FIRST FLOOR CORRIDORS	LL = 2000 LBS	LL = 100 PSF	
STAIRS & EXITWAYS	LL = 300 LBS	LL = 100 PSF	
OFFICES	LL = SEE PLANS	LL = 50 PSF	
PARTITIONS	LL = SEE PLANS	LL = 15 PSF	
ROOF LOAD:	LL = SEE PLANS	LL = 20 PSF	
SNOW LOAD:	GROUND SNOW LOAD:	Pg = 10 PSF	
WIND LOAD:	ULTIMATE WIND SPEED, $V_{ult} = 129$ MPH NOMINAL WIND SPEED, $V_{nom} = 99.9$ MPH RISK CATEGORY = III WIND EXPOSURE = B INTERNAL PRESSURE COEF., $G_{CPI} = \pm 0.18$ (ENCLOSED) COMPONENTS & CLADDING:		

COMPONENT AND CLADDING DESIGN WIND PRESSURES (PSF)							
Area	ROOF SURFACE PRESSURES						
	20' ft	50' ft	100' ft	200' ft	350' ft	500' ft	1000' ft
Negative Zone 1	-39.1	-36.5	-33.1	-30.6	-28.0	-25.9	-24.6
Negative Zone 1	-22.5	-22.5	-22.5	-22.5	-19.3	-16.8	-16.0
Negative Zone 2	-51.6	-48.3	-43.9	-40.6	-37.3	-34.6	-32.9
Negative Zone 2	-51.6	-48.3	-43.9	-40.6	-37.3	-34.6	-32.9
Positive Zone 1 & 2	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Positive Zones 2 & 3	22.5	21.5	20.2	19.2	18.2	17.4	16.9
Overhang Zone 1&1	-35.4	-34.8	-33.9	-33.3	-27.9	-23.6	-20.8
Overhang Zone 2	-47.9	-43.4	-37.6	-33.2	-28.7	-25.2	-22.9
Overhang Zone 3	-47.9	-43.4	-37.6	-33.2	-28.7	-25.2	-22.9

PARAPET SURFACE PRESSURES							
SOLID PARAPET PRESSURE	10' ft	20' ft	50' ft	100' ft	200' ft	500' ft	
CASE A, Zone 2	71.9	67.2	61.1	56.4	51.7	45.6	
Zone 3	71.9	67.2	61.1	56.4	51.7	45.6	
CASE B, Interior zone	-42.4	-40.3	-37.5	-35.3	-33.2	-30.3	
Corner zone	-48.5	-45.3	-41.0	-37.8	-34.6	-30.3	

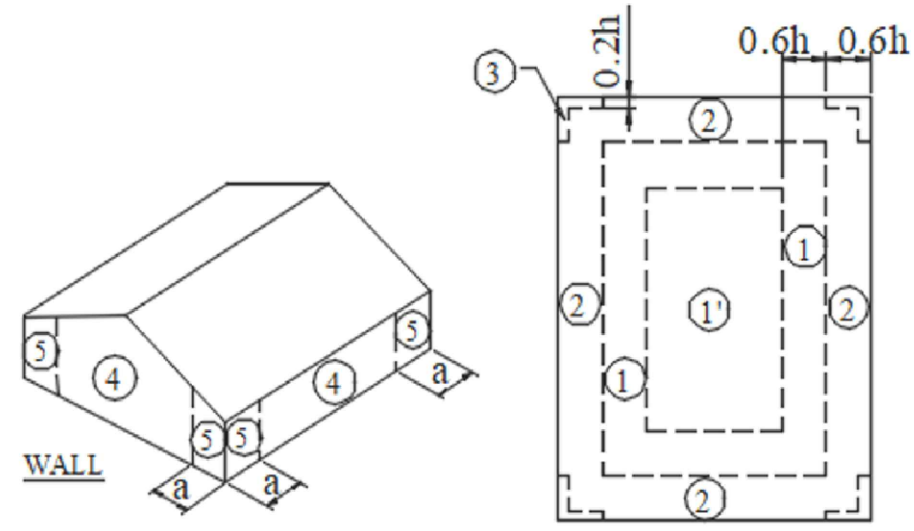
WALL SURFACE PRESSURES					
Area	10' ft	100' ft	200' ft	500' ft	
NEGATIVE ZONE 4	-24.3	-21.0	-20.0	-18.7	
NEGATIVE ZONE 5	-30.0	-23.4	-21.4	-18.7	
POSITIVE ZONE 4 & 5	22.5	19.2	18.2	16.9	

NOTES:

- TABLE PRESSURES ARE FOR THE SQUARE FOOT (SF) TRIBURARY AREA SHOWN. FOR OTHER TRIBURARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
- POSITIVE PRESSURES ACT TOWARD THE BUILDING; NEGATIVE PRESSURES ACT AWAY FROM THE BUILDING.
- SEE DIAGRAMS FOR LOCATION OF ZONES.
- PRESSURES SHOWN ARE ULTIMATE PRESSURES, MULTIPLY BY 0.6 FOR NOMINAL PRESSURES

*** - ROOF STEEL JOISTS SHALL BE ANALYZED FOR A NET UPLIFT LOADING OF 4.8 PSF.

SEISMIC LOAD:	RISK CATEGORY = III	
$I_e = 1.25$	SEISMIC DESIGN CATEGORY "C"	
$S_{ds} = 0.304g$		
$S_{d1} = 0.169g$		
SITE CLASS = D (ASSUMED)	BUILDING SYSTEM: BEARING WALL ORDINARY PLAIN MASONRY SHEAR WALLS $R = 1.5$ $\Omega_{max} = 2.5$ $C_d = 1.25$ $C_s = 0.253$ DESIGN BASE SHEAR (V) = 0.253 x BLDG WT.	
ANALYSIS PROCEDURE: EQUIV. LATERAL FORCE METHOD		



Walls $h \leq 60'$ & alt design $h < 90'$

Gable, Sawtooth and Multispan Gable $\theta \leq 7$ degrees & Monoslope ≤ 3 degrees $h \leq 60'$ & alt design $h < 90'$

GENERAL NOTES:

- COORDINATE ALL NEW WORK WITH OTHER DIVISIONS. PRODUCE SHOP DRAWINGS FOR ALL AREAS OF WORK. ANY INTERFERENCES OR CONFLICTS NOT RESOLVED DURING NORMAL SHOP DRAWING COORDINATION BETWEEN TRADES SHALL BE SPECIFICALLY NOTED TO THE ARCHITECT FOR HIS INSTRUCTIONS. CONFLICTS ARISING OUT OF WORK INSTALLED WITHOUT SHOP DRAWINGS OR NON-COORDINATED SHOP DRAWINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT HIS EXPENSE FOR ANY NECESSARY CHANGES.
- IN CASE OF A DISCREPANCY BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS, DIMENSIONS ON THE ARCHITECTURAL DRAWINGS SHALL GOVERN.
- DESIGN IS IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE.
- THE STRUCTURAL ENGINEER SHALL HAVE NO CONTROL OVER NOR RESPONSIBILITY FOR THE CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK. SITE SAFETY AND SAFETY PROGRAM IN CONNECTION WITH THE WORK, THESE ARE SOLELY THE RESPONSIBILITIES OF THE CONTRACTOR, WHO IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL HEALTH AND SAFETY PRECAUTIONS AS REQUIRED BY REGULATORY AGENCIES.
- STRUCTURAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, FOR INCONSISTENCIES BETWEEN STRUCTURAL DRAWINGS, THE SPECIFICATIONS, AND ANY CODE OF STANDARD PRACTICE. THE STRICTER REQUIREMENT SHALL APPLY, AND THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED WITH OTHER CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, M/E/P, AND SITE DOCUMENTS. COORDINATE WITH THESE DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, ETC., NOT INDICATED ON THE STRUCTURAL DOCUMENTS, ALL DIMENSIONS AND CONDITIONS, EXISTING AND NEW, SHALL BE FIELD VERIFIED. THE ENGINEER SHALL BE NOTIFIED OF DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE STABILITY AND SAFETY DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF SHEETING, SHORING, TEMPORARY BRACING, GUYS, AND TIEDOWNS. THE CONTRACTOR SHALL PROVIDE SHORING AND BRACING NECESSARY TO PROTECT EXISTING AND ADJACENT STRUCTURES.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS THAT DO NOT HAVE A SPECIFIC SECTION INDICATED, AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OSHA.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE SPECIFIED DESIGN LIVE LOADS. CONCRETE SLABS AND TOPPING SHALL NOT BE LOADED UNTIL THE CONCRETE HAS REACHED AT LEAST 75% OF THE SPECIFIED DESIGN COMPRESSIVE STRENGTH.
- THE CONTRACTOR'S CONSTRUCTION SEQUENCES SHALL ALLOW FOR THE EFFECTS OF THERMAL MOVEMENTS DURING THE CONSTRUCTION PERIOD, PRIOR TO THE BUILDING BEING ENCLOSED AND TEMPERATURE CONTROLLED. NEGATIVE EFFECTS OF SUCH THERMAL MOVEMENTS, SUCH AS MATERIAL CRACKING, FROST HEAVE, ETC., SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- IN THE ABSENCE OF SPECIFIC INSTRUCTIONS TO THE CONTRARY IN THE CONTRACT DOCUMENTS, THE TRADE PRACTICES THAT ARE DEFINED IN ANY CODE OF STANDARD PRACTICE SHALL GOVERN.
- DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS, LOCATIONS, OR SIZES OF ANY ELEMENT.

FOUNDATION NOTES:

- ALL FOUNDATION SOILS SHALL BE COMPACTED TO AT LEAST 98% STANDARD PROCTOR IN ACCORDANCE WITH ASTM D698. FILL SHALL BE COMPACTED IN 6 INCH MAXIMUM LIFTS.
- SOILS TESTING LABORATORY SHALL CONDUCT COMPACTION TESTS IN ACCORDANCE WITH ASTM D698. RATE OF COMPACTION SHALL BE AS FOLLOWS:
A. ONE TEST FOR EACH SPREAD FOOTING.
B. ONE TEST FOR EACH 50 LINEAR FEET OF CONTINUOUS FOOTING.
C. ONE TEST FOR EACH 1000 S.F. OF SLAB.
- FOUNDATIONS HAVE BEEN DESIGNED FOR 2000 PSF MINIMUM ALLOWABLE SOIL BEARING PRESSURE.
- NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER:
A. WHEN EXCAVATION TO REQUIRED SUBGRADE ELEVATIONS HAVE BEEN REACHED.
B. 24 HOURS PRIOR TO SCHEDULED FILL OR BACKFILL OPERATIONS.
C. 24 HOURS PRIOR TO ANY SCHEDULED CONCRETE PLACEMENT FOR INSPECTION OF FORMWORK, REINFORCING, AND EMBEDDED ITEMS.
- SUBMITTALS:
A. SUBMITTALS REQUIRED FOR BORROW MATERIALS. CONCRETE MIX DESIGNS, SHOP DRAWINGS FOR CONCRETE REINFORCING, EMBEDDED ITEMS, ACCESSORIES, AND PRODUCT DATA, ETC. AS OUTLINED IN THE SPECIFICATIONS.
B. ALL DATA SHALL BE SUBMITTED "CONTRACTOR APPROVED," CONCRETE SLABS AND FOOTINGS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI.
SLUMP SHALL NOT EXCEED 5". SLUMP TESTS SHALL BE PERFORMED ON EACH TRUCK LOAD AND CONFORM TO ASTM C143.
CONCRETE REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
UNLESS SHOWN OTHERWISE, ALL CONTINUOUS REINFORCING SHALL HAVE A MINIMUM LAP SPLICE AS FOLLOWS:
#4 BAR - MIN. LAP = 2'-0"
#5 BAR - MIN. LAP = 2'-6"
#6 BAR - MIN. LAP = 3'-0"
- PROVIDE CORNER REINFORCING OF SAME SIZE AND SPACING AS CONTINUOUS REINFORCING AT WALL AND FOOTING INTERSECTIONS. LAP REINFORCING 2'-0" MINIMUM.
UNLESS SHOWN OTHERWISE, THE FOLLOWING MINIMUM COVER SHALL BE PROVIDED FOR REINFORCEMENT:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:
NO. 6 AND LARGER: 2"
NO. 5 AND SMALLER: 1 1/2"
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185 (FLAT SHEETS) WITH MINIMUM LAP OF 8" AT EDGES AND ENDS.
- CONTROL JOINT SEALANT SHALL BE SIKADUR 51 NS/SL OR APPROVED EQUAL EXPANSION AND ISOLATION JOINT SEALANT SHALL BE SIKAFLEX 1a OR APPROVED EQUAL.
- APPLY AN APPROVED CURING COMPOUND, CONFORMING TO ASTM C309, TO THE SLAB AFTER FINISHING IS COMPLETE.
- ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307, NON-HEADED TYPE. ANCHOR BOLTS FOR COLUMNS SHALL BE POSITIONED WITH A TEMPLATE PRIOR TO POURING CONCRETE. LEVELING NUTS SHALL BE TIGHTENED ON EACH SIDE OF THE TEMPLATE TO HOLD THE ANCHOR BOLTS IN PLACE.
- NON-SHRINK GROUT SHALL CONFORM TO ASTM C1107, NON-METALLIC AND NO CHLORIDE.
- CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS NOTED OTHERWISE.

CONCRETE SLABS ON GRADE

- GEOTECHNICAL ENGINEER SHALL OBSERVE AND APPROVE SUBGRADE BEFORE CONCRETE PLACEMENT.
- DO NOT PLACE CONCRETE SLABS ON FROZEN GROUND.
- CONTROL JOINTS ARE REQUIRED IN CONCRETE SLABS. REFER TO PLANS AND TYPICAL DETAILS FOR JOINT CONSTRUCTION AND LOCATIONS.
- INSTALL (2) #4 x 5'-0" LONG BARS DIAGONALLY AT RE-ENTRANT CORNERS AND OPENINGS.
- COORDINATE LOCATIONS AND DIMENSIONS OF RECESSED SLABS.

STEEL NOTES:

- WIDE FLANGE STRUCTURAL SHAPES SHALL CONFORM TO ASTM A992 (Fy=50 ksi; Fu=65 ksi). ALL OTHER STRUCTURAL SHAPES AND PLATES SHALL CONFORM TO ASTM A36 (Fy=36 ksi; Fu=58 ksi). RECTANGULAR AND SQUARE HOLLOW STEEL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B (Fy=46 ksi; Fu=58 ksi). ROUND HSS SHALL CONFORM TO ASTM A500, GRADE B (Fy=46 ksi; Fu=58 ksi).
- STRUCTURAL STEEL DESIGN, DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION AND DETAILING MANUAL. THREADED FASTENERS SHALL BE HIGH STRENGTH CONFORMING TO ASTM A325. FASTENERS SHALL BE INSTALLED WITH A WASHER AND HEXAGONAL NUT. ANCHOR BOLTS SHALL BE ASTM A307, NON-HEADED TYPE WITH WASHERS.
- ALL BOLTS SHALL BE TIGHTENED USING THE TURN-OF-THE-NUT METHOD AS DEFINED IN THE AISC CODE OF STANDARD PRACTICE.
- ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH AWS D1.1. WELDING ELECTRODES SHALL BE E70XX. ALL ADHESIVE ANCHORS SHALL BE HILTI HIT HY-20 OR HY-150 STANDARD ANCHOR ROD OR EQUIV. HY-20 ANCHORS SHALL BE USED IN HOLLOW MASONRY UNITS AND EXTERIOR CAVITY WALLS. HY-150 ANCHORS SHALL BE USED IN SOLID OR SOLID FILLED MASONRY.
- INSTALL BASE PLATES USING LEVELING NUTS. GROUT FOR SETTING PLATES SHALL BE NON-SHRINK, NON-METALLIC CONFORMING TO ASTM C1107.
- STEEL BAR JOISTS SHALL BE K-SERIES, OPEN WEB TYPE UN O.
- STEEL BAR JOIST DESIGN, DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND LOAD TABLES BY THE STEEL JOIST INSTITUTE (SJI).
- STEEL BAR JOISTS SHALL BE DESIGNED AND FABRICATED TO SUPPORT ADDITIONAL CONCENTRATED AND DISTRIBUTED LOADS AS INDICATED ON THE PLANS.
- STEEL BAR JOIST BRIDGING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON THE PLANS. ALL BRIDGING SHALL BE INSTALLED AND COMPLETELY ANCHORED BEFORE ANY CONSTRUCTION LOADING IS APPLIED TO THE JOISTS.
- STEEL BAR JOISTS OR JOIST GIRDS INTERSECTING A BEAM OVER A COLUMN, OR JOISTS CONNECTED DIRECTLY TO A COLUMN, SHALL COMPLY WITH THE LATEST OSHA STANDARDS. CONTRACTOR SHALL SUBMIT TYPICAL CONNECTION DETAIL FOR THESE CONDITIONS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- STEEL DECK DESIGN, DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS BY THE STEEL DECK INSTITUTE (SDI).
- STEEL DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SUPPORTS. THE DECK SHALL BE SECURED TO SUPPORTS AS FOLLOWS:
PERIMETER: 5/8" DIA. PUDDLE WELD OR HILTI ENKK POWDER ACTUATED PINS @ 6" O.C.
INTERIOR: 5/8" DIA. PUDDLE WELD OR HILTI ENKK POWDER ACTUATED PINS @ 12" O.C.
- SIDE LAPS: #10 SELF-TAPPING SCREWS @ 24" O.C.
- SUBMITTALS:
A. SHOP DRAWINGS FOR STRUCTURAL STEEL, STEEL BAR JOISTS AND STEEL ROOF DECK.
B. ALL DRAWINGS SHALL BE SUBMITTED "CONTRACTOR APPROVED". NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER 24 HOURS PRIOR TO SCHEDULED STEEL AND ROOF DECK ERECTION.
ARRANGEMENT AND LOCATION OF MECHANICAL OPENINGS ARE APPROXIMATE AND SCHEMATIC. REFER TO MECHANICAL PLANS FOR EXACT CONFIGURATIONS, SIZES, AND LOCATIONS OF ROOF TOP UNITS.
- FOR OPENINGS UP TO 8" IN DIAMETER, ADD 20 GAGE GALVANIZED SHEET 12" LARGER THAN OPENING AND ATTACH WITH #10 GALVANIZED SCREWS AT 6" O.C. FOR OPENINGS GREATER THAN 8" IN DIAMETER, REFER TO PLANS.
- ALTERNATIVES FOR FRAMING AND SUPPORT DETAILS FOR ROOF TOP HVAC UNITS SHALL BE SUBMITTED FOR REVIEW.

MASONRY NOTES:

- ALL HOLLOW CONCRETE MASONRY UNITS SHALL HAVE A NET COMPRESSIVE STRENGTH OF 1900 PSI AND SHALL CONFORM TO ASTM C90, GRADE N.
- MORTAR MATERIALS SHALL BE AS FOLLOWS:
• PORTLAND CEMENT: ASTM C150, TYPE 1
• MASONRY CEMENT: ASTM C91
• HYDRATED LIME: ASTM C207, TYPE S
• AGGREGATE: ASTM C144
• WATER: LEAN AND POTABLE
- TYPE S MORTAR, ASTM C270, SHALL BE USED FOR ALL MASONRY BELOW GRADE IN CONTACT WITH EARTH.
- TYPE S MORTAR, ASTM C270, SHALL BE USED ON ALL ABOVE-GRADE CONSTRUCTION.
- FILL REINFORCED CELLS WITH 3000 PSI MASONRY GROUT CONFORMING TO ASTM C476 IN 4'-0" MAXIMUM LIFTS. SUBMIT MIX DESIGN FOR APPROVAL.
- ALL CELLS BELOW FINISHED FLOOR SHALL BE FILLED SOLID. CAVITIES BETWEEN WYTHES BELOW FINISHED FLOOR SHALL BE FILLED SOLID.
- CONCRETE MASONRY REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
- REINFORCING SHALL BE TIED IN CENTERLINE OF CELLS, UNLESS NOTED OTHERWISE, AT SPLICES AND HORIZONTAL JOINT REINFORCING.
- VERTICAL REINFORCING SPLICES SHALL HAVE A 24" MINIMUM LAP. VERTICAL REINFORCING SHALL LAP FOOTING DOWEL BARS 24" MINIMUM.
- UNLESS SHOWN OTHERWISE IN WALL DETAILS, PLACE ONE VERTICAL #5 BAR IN FULLY GROUTED CELL AT 48" O.C. MAXIMUM ALONG LENGTH OF WALLS. VERTICAL BARS TO EXTEND FROM FOOTING DOWEL BAR SPLICE TO TOP OF WALL AND SHALL PENETRATE INTO BOTTOM OF BOND BEAM AT TOP OF WALL OR PARAPET 4" MINIMUM.
- ONE VERTICAL #5 BAR IN A FULLY GROUTED CELL SHALL BE PLACED AT WALL CORNERS, AT THE ENDS OF WALLS, ON EACH SIDE OF DOOR AND WINDOW JAMBS, AND ON EACH SIDE OF MASONRY CONTROL JOINTS. VERTICAL BARS TO EXTEND FROM FOOTING DOWEL BAR SPLICE TO TOP OF WALL AND SHALL PENETRATE INTO BOTTOM OF BOND BEAM AT TOP OF WALL OR PARAPET 4" MINIMUM.
- BOND BEAMS SHALL BE PLACED AT THE TOP OF WALLS AND WHERE FLOOR AND ROOF FRAMING MEMBERS ARE ATTACHED TO WALLS. BOND BEAMS SHALL HAVE TWO CONTINUOUS #5 BARS AND SHALL BE FULLY GROUTED. REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
- LINTELS OVER DOOR AND WINDOW OPENINGS SHALL BE REINFORCED AS NOTED ON THE PLANS. ALSO PROVIDE BOND BEAM WITH TWO CONTINUOUS #5 BARS AT WINDOW SILL. LINTELS AND BOND BEAMS SHALL CONTINUE BEYOND EACH SIDE OF DOOR AND WINDOW OPENINGS 24" MINIMUM.
- PLACE 9 GAGE WIRE TRUSS HORIZONTAL REINFORCING AT 16" O.C. VERTICAL IN ALL WALLS. JOINT REINFORCING SHALL BE CONTINUOUS THROUGH REINFORCED CELLS. WIRE REINFORCING SHALL CONFORM TO ASTM A82.
- BRACING OF INTERIOR NON-LOAD BEARING PARTITION WALLS SHALL NOT EXCEED 8'-0" INTERVALS.
- PROVIDE CORNER REINFORCING OF SAME SIZE AND SPACING AS CONTINUOUS REINFORCING AT BOND BEAM INTERSECTIONS. LAP REINFORCING 2'-0" MINIMUM. HOOK REINFORCING 12" INTO REINFORCED JAMB WHERE BOND BEAMS ARE INTERRUPTED BY OPENINGS.
- WHERE WALL HEIGHTS EXCEED 10'-0", PROVIDE BOND BEAMS AT MAXIMUM 8'-0" O.C. VERTICALLY.
- MASONRY WALL CONTROL JOINTS SHALL BE PLACED NO GREATER THAN 20'-0" O.C. UNLESS NOTED OTHERWISE ON PLANS.

RENOVATION AND EXISTING STRUCTURES

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING STRUCTURE. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS NECESSARY FOR PROPER FABRICATION AND ERECTION OF ALL STRUCTURAL MEMBERS.
- BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS. DURING THE PROCESS OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE WHERE THE EXISTING STRUCTURE IS MODIFIED TO ACCOMMODATE NEW CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING STRUCTURE WHICH ARE TO REMAIN.
- THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY EXISTING CONDITIONS THAT DIFFER FROM THOSE INDICATED ON THE DRAWINGS.

COLD FORMED STEEL FRAMING:

- ALL COLD FORMED STEEL FRAMING INDICATED ON THE DRAWINGS IS FOR DESIGN INTENT ONLY. THE COLD-FORMED FRAMING SUBCONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER TO DESIGN ALL COLD FORMED FRAMING IN ACCORDANCE WITH THE SPECIFIED DESIGN CRITERIA. SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED. INDICATED COLD-FORMED FRAMING SIZES AND GAGES ARE MINIMUMS, AND SHALL NOT BE REDUCED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER. COLD-FORMED SUB-CONTRACTOR SHALL AT HIS EXPENSE DURING BIDDING PERFORM SUFFICIENT PRELIMINARY ENGINEERING TO PRICE THE JOB WITH ALL REQUIRED FRAMING SIZES, GAUGES, SPACINGS, FRAME OPENINGS, ACCESSORIES, ETC.
- THE DESIGN OF COLD FORMED STEEL FRAMING SHALL CONFORM TO AISI'S "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
- COLD FORMED STEEL FRAMING SHALL CONFORM TO ASTM C955 AND C1007, AND TO THE FOLLOWING:
12, 14 AND 16 GAGE STUDS ASTM A653, SW, GRADE 50, CLASS 1
18 AND 20 GAGE STUDS ASTM A653, CW, GRADE 33
TRACK AND BRIDGING ASTM A653, CW, GRADE 33
- WELDING SHALL CONFORM TO AWS D1.3-98, "STRUCTURAL WELDING CODE - SHEET STEEL".
- COLD FORMED STEEL FRAMING PROPERTIES SHALL CONFORM TO MARINOWARE OR EQUIVALENT.
- PROVIDE BRIDGING AND BRACING AS SPECIFIED BY MANUFACTURER OR AS REQUIRED BY DESIGN.
- THE EXTENT OF WORK FOR COLD-FORMED FRAMING IS DETAILED ON THE ARCHITECTURAL DRAWINGS, AND PARTLY ON THE STRUCTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
- PROVIDE COLD-FORMED ACCESSORIES AS REQUIRED FOR A COMPLETE FRAMING SYSTEM, INCLUDING, BUT NOT LIMITED TO, TRACKS, BLOCKING, CLIP ANGLES, SLIDE CLIPS, SHOES, RUNNERS, REINFORCEMENTS, COLD-FORMED TO COLD-FORMED FASTENERS AND WELDS, AND COLD-FORMED TO STRUCTURE FASTENERS AND WELDS.
- DO NOT BEAR OR CONNECT COLD-FORMED MEMBERS WITHIN 12 INCHES OF PUNCHED WEB OPENINGS UNLESS MEMBERS ARE REINFORCED WITH AN 18 IN. (MIN.) LONG UNPUNCHED STUD OR TRACK AT THE PUNCH OPENING, SAME GAGE AS PLACE STUDS AT UNIFORM SPACING INDICATED WITH FULL BEARING AGAINST INSIDE WEB OF RUNNERS. ALIGN WITH ALL FLANGES FACING SAME DIRECTION.
- LOCATE STUDS NOT MORE THAN 2 IN. FROM ABUTTING WALLS.
- CONSTRUCT CORNERS USING MIN. 3 STUDS. PROVIDE DOUBLE STUDS AT WALL OPENINGS, AND AT WINDOW AND DOOR JAMBS, UNO.
- INSTALL INTERMEDIATE JACK STUDS (CRIPPLES) ABOVE AND BELOW OPENINGS TO MATCH WALL STUD SPACING.
- ALL CONNECTIONS SHALL BE SCREWED OR POWER FASTENED, UNLESS WELDING IS INDICATED.
SCREWS: #10 (UNO) HEX HEAD SELF-DRILLING SCREWS, MIN. 1/2 IN. LENGTH FOR COLD-FORMED CONNECTIONS. MIN. 1-1/2 IN. LENGTH FOR COLD-FORMED TO TIMBER CONNECTIONS. MIN SPACING AND EDGE DISTANCE SHALL BE 1/2 IN.
POWDER ACTUATED FASTENERS (PAF) IN CONCRETE: 0.145 IN. (UNO) SHANK DIA. MIN. SPACING SHALL BE 4 IN. AND MIN. EDGE DISTANCE SHALL BE 3 IN.
POWDER ACTUATED FASTENERS (PAF) IN STEEL: 0.145 IN. (UNO) KNURLED SHANK DIA. MIN. SPACING SHALL BE 1-1/2 IN. AND MIN. EDGE DISTANCE SHALL BE 1/2 IN.

LINTELS

- PROVIDE LINTELS OVER OPENINGS IN WALLS AT DOORS, WINDOWS, MECHANICAL AND ELECTRICAL SERVICES AND EQUIPMENT, WALLS IN FRONT OF RECESSED ENTRIES, ETC., UNO.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATIONS OF ALL LINTELS. LINTEL LOCATIONS ARE NOT GENERALLY SHOWN ON PLAN.
- REFER TO THE LINTEL SCHEDULE FOR LINTEL SIZES.
- LINTEL TYPES MAY BE STEEL, PRECAST CONCRETE, OR CAST-IN-PLACE CONCRETE MASONRY LINTELS. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF LINTEL REQUIRED AT EACH LOCATION.
- STEEL MATERIALS: REFER TO STRUCTURAL STEEL NOTES. STEEL LINTELS AT EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED.
- PRECAST CONCRETE LINTELS SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI. REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60. WELDED REINFORCEMENT SHALL CONFORM TO ASTM A706.
- STEEL STUD CONNECTORS SHALL CONFORM TO ASTM A108, GRADES 1010 THROUGH 1020 (60 KSI TENSILE STRENGTH), AND SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1 "STRUCTURAL WELDING CODE - STEEL". DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A496. STUDS AND DBA'S SHALL BE WELDED BY AUTOMATIC EQUIPMENT.
- ALL LINTELS SHALL BEAR 8 IN. MIN. ON A FULL MORTAR BED. GROUT SOLID THREE (3) COURSES BELOW BEARING, UNO.
- WHEN LINTELS HAVE LESS THAN SPECIFIED BEARING LENGTH DUE TO AN ADJACENT STEEL COLUMN:
A. FOR STEEL LINTELS, FRAME LINTEL TO COLUMN.
B. FOR PRECAST LINTELS, PROVIDE 16x16x1/2 x WIDTH OF LINTEL WELDED TO COLUMN FOR LINTEL BEARING. WHERE BEARING IS EXPOSED NOTCH LINTEL SO BOTTOM OF ANGLE AND LINTEL ARE FLUSH.
- PROVIDE MASONRY ANCHORS AT ALL STEEL BEAMS BEARING ON MASONRY WALLS. ANCHORS SHALL BE LOCATED CLOSE TO BEAM TOP FLANGE.

STEEL JOISTS

- MECH/ELEC/PLUM CONFLICTS WITH JOIST BRIDGING: ALL HORIZONTAL & DIAGONAL BRIDGING SHALL BE INSTALLED AND ANCHORED ACCORDING TO SJI REQUIREMENTS. AFTER DECK IS INSTALLED, BRIDGING MAY BE RE-WORKED AS FOLLOWS TO ACCOMMODATE INSTALLATION OF DUCTS, PIPING, CONDUIT, ETC.:
A. DIAGONAL BRIDGING MAY BE REPLACED WITH HORIZONTAL BRIDGING IN NON-ADJACENT JOIST BAYS. DO NOT REMOVE DIAGONAL BRIDGING IN MORE THAN ONE LOCATION AT A TIME BEFORE REINSTALLING HORIZONTAL BRIDGING.
B. HORIZONTAL BRIDGING MAY BE REMOVED ONLY IN NON-ADJACENT JOIST BAYS. DIAGONAL BRIDGING MUST BE INSTALLED IN BOTH ADJACENT JOIST BAYS, ALIGNED WITH THE LOCATIONS OF HORIZONTAL BRIDGING THAT IS TO BE REMOVED. DO NOT REMOVE HORIZONTAL BRIDGING BEFORE INSTALLING NEW DIAGONAL BRIDGING IN ADJACENT JOIST BAYS.
IF THE ABOVE LIMITATIONS CANNOT BE MET, THE STRUCTURAL ENGINEER SHALL BE CONTACTED FOR DIRECTION.

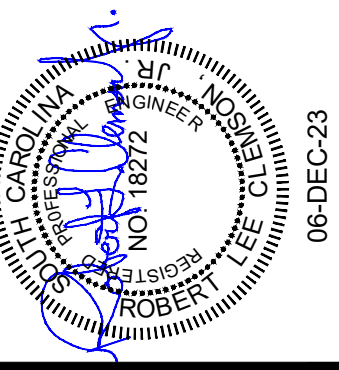
ABBREVIATIONS

A.B.	ANCHOR BOLT
A.F.F.	ABOVE FINISH FLOOR
BLDG.	BUILDING
BLK.G.	BLOCKING
BM.	BEAM
BOT. BOTT.	BOTTOM
BRG.	BEARING
C	CHANNEL
C.J.	CONTROL JOINT
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
C.	CONCRETE
CONT.	CONTINUOUS
CTR.	CENTER
CU.	CUBIC
DBL.	DOUBLE
DET.	DETAIL
DIA.	DIAMETER
DIAG.	DIAGONAL
I.C.A.	DRILLED-IN CONCRETE ANCHOR
DM.	DIMENSION
DIN.	DOWN
DWG.	DRAWING
E.A.	EACH
EJ	EXPANSION JOINT
EL.,ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
E.W.	EACH WAY
F.F.	FINISH FLOOR
FLR.	FLOOR
FT.	FOOT, FEET
FTG.	FOOTING
GALV.	GALVANIZED
HORIZ.	HORIZONTAL
HSS	HOLLOW STEEL SECTION
HT.	HEIGHT
I.D.	INSIDE DIAMETER
JT.	JOINT
L	LINEAL
L	LINEAL
LLV	LONG LEG VERTICAL
MAX.	MAXIMUM
MIN.	MINIMUM
M.O.	MASONRY OPENING
MTL.	METAL
NOM.	NOMINAL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P.T.	PRESSURE TREATED
PL	PLATE
PCF	POUNDS PER CUBIC FEET
PLF	POUNDS PER LINEAL FEET
PSF	POUNDS PER SQUARE FOOT
REF.	REFERENCE
REINF.	REINFORCEMENT
REQ'D.	REQUIRED
R.O.	ROUGH OPENING
SECT.	SECTION
S.F.	SQURE FOOT/(FEET)
SHT.	SHEET
SIM.	SIMILAR
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
T.O.F.	TOP OF FOOTING
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TRANS.V.	TRANSVERSE
TS	STRUCTURAL TUBING
UNO.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W	WIDE FLANGE SECTION
W	WITH
WD.	WOOD
WP	WORKING POINT
W.W.F.	WELDED WIRE FABRIC
@	DIAMETER, ROUND
Ø	AT CENTERLINE

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RENOVATIONS FOR
ONE CHURCH

126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



SCHEDULE OF SPECIAL INSPECTION				
Per IBC Section 1704 of the 2018 International Building Code and Section C408 of the 2018 IECC the following items require Special Inspections. Special inspectors must be employed by the Owner or registered design professional in responsible charge acting as the owner's agent.				
PROJECT ADDRESS	SERVICE	PERMIT NO.		
		APPLICABLE TO THIS PROJECT		
MATERIAL / ACTIVITY		Y/N	EXTENT	AGENT*
1704.2.5 Inspection of Fabricators				
Verify fabrication/quality control procedures	In-plant review (3)		Periodic	
1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements)	Submital review, shop (3) and/or field inspection			
1705.2 Steel Construction				
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)	Submital Review	Y	Each submittal	
2. Material verification of structural steel	Shop (3) and field inspection	Y	Periodic	
3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	Y	Continuous	
4. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic	
5. Structural steel welding:				
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4.1)	Shop (3) and field inspection		Observe or Perform as noted (4)	
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4.1)	Shop (3) and field inspection		Observe (4)	
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4.3)	Shop (3) and field inspection		Observe or Perform as noted (4)	
d. Nondestructive testing (NDT) of welded joints: see Commentary				
1) Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) or field ultrasonic testing - 100%		Periodic	
2) Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) or field ultrasonic testing - 10% of welds minimum		Periodic	
3) Thermally cut surfaces of access holes when material > 2"	Shop (3) or field magnetic Particle or Penetrant testing		Periodic	
4) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A3.1	Shop (3) or field radiographic or Ultrasonic testing		Periodic	
e) Fabricator's NDT reports when fabricator performs NDT	Verify reports		Each submittal (5)	
6. Structural steel bolting:				
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6.1)			Observe or Perform as noted (4)	
b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6.2)			Observe (4)	
1) Pre-tensioned and slip-critical joints				
a) Turn-of-nut with matching markings			Periodic	
b) Direct tension indicator			Periodic	
c) Twist-off type tension control bolt			Periodic	
d) Turn-of-nut without matching markings			Continuous	
e) Calibrated wrench			Continuous	
2) Shop-tight joints			Periodic	
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6.3)		Y	Perform (4)	
7. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1	Shop (3) and field inspection and testing		Observe or Perform as noted (4)	
1705.3 Concrete Construction				
1. Inspection of reinforcing steel installation (see 1705.2.2 for welding)	Shop (3) and field inspection	Y	Periodic	
2. Inspection of prestressing steel installation	Shop (3) and field inspection		Periodic	
3. Inspection of anchors cast in concrete where allowable loads have been increased per section 1908.5 or where strength design is used	Shop (3) and field inspection	Y	Continuous	
4. Inspection of anchors and reinforcing steel post-installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque	Field inspection	Y	Periodic or as required by the research report issued by an approved source	
5. Verify use of approved design mix	Shop (3) and field inspection	Y	Periodic	
6. Fresh concrete sampling, perform slump and air content tests and determine temperature of concrete	Shop (3) and field inspection	Y	Continuous	
7. Inspection of concrete and shotcrete placement for proper application techniques	Shop (3) and field inspection	Y	Continuous	
8. Inspection for maintenance of specified curing temperature and techniques	Shop (3) and field inspection	Y	Periodic	
9. Inspection of prestressed concrete:				
a. Application of prestressing force			Continuous	
b. Grouting of bonded prestressing tendons in the seismic-force-resisting system			Continuous	
10. Erection of precast concrete members				
a. Inspect in accordance with construction documents	Field inspection		In accordance with construction documents	
b. Perform inspections of welding and bolting in accordance with Section 1705.2	Field inspection		In accordance with Section 1705.2	
11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs	Review field testing and laboratory reports		Periodic	
12. Inspection of formwork for shape, level, location and dimensions	Field inspection	Y	Periodic	
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic	

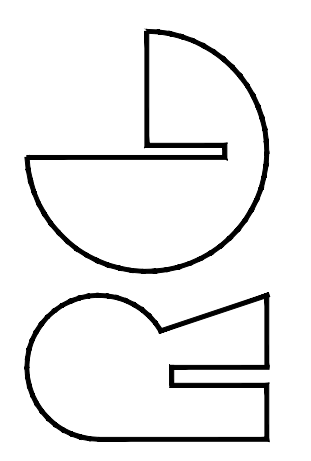
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SCHEDULE OF SPECIAL INSPECTION (CONTINUED)				
Per IBC Section 1704 of the 2018 International Building Code and Section C408 of the 2018 IECC the following items require Special Inspections. Special inspectors must be employed by the Owner or registered design professional in responsible charge acting as the owner's agent.				
PROJECT ADDRESS	SERVICE	PERMIT NO.		
		APPLICABLE TO THIS PROJECT		
MATERIAL / ACTIVITY		Y/N	EXTENT	AGENT*
1705.4 Masonry Construction				
(A) Level A, B and C Quality Assurance:				
1. Verify compliance with approved submittals	Field inspection	Y	Periodic	
(B) Level B Quality Assurance:				
1. Verification of Fm and FAAC prior to construction	Testing by unit strength method or prism test method	Y	Periodic	
(C) Level C Quality Assurance:				
1. Verification of Fm and FAAC prior to construction and for every 5,000 SF during construction	Testing by unit strength method or prism test method		Periodic	
2. Verification of proportions of materials in premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout, as delivered to the project site	Field inspection	Y	Continuous	
3. Verify placement of masonry units	Field inspection	Y	Periodic	
(D) Levels B and C Quality Assurance:				
1. Verification of Slump Flow and Visual Stability Index (VSI) of self-consolidating grout as delivered to the project	Field testing		Continuous	
2. Verify compliance with approved submittals	Field inspection		Periodic	
3. Verify proportions of site-mixed mortar, grout and prestressing grout for bonded tendons	Field inspection		Periodic	
4. Verify grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages	Field inspection		Periodic	
5. Verify construction of mortar joints	Field inspection		Periodic	
6. Verify placement of reinforcement, connectors, and prestressing tendons and anchorages	Field inspection		Level B - Periodic	
			Level C - Continuous	
7. Verify grout space prior to grouting	Field inspection		Level B - Periodic	
			Level C - Continuous	
8. Verify placement of grout and prestressing grout for bonded tendons	Field inspection		Continuous	
9. Verify size and location of structural masonry elements	Field inspection	Y	Periodic	
10. Verify type, size, and location of anchors, including details of anchorage of masonry to structural members, frames, or other construction.	Field inspection	Y	Level B - Periodic	
			Level C - Continuous	
11. Verify welding of reinforcement (see 1705.2.2)	Field inspection		Continuous	
12. Verify preparation, construction, and protection of masonry during cold weather (temperature below 40oF) or hot weather (temperature above 90oF)	Field inspection	Y	Periodic	
13. Verify application and measurement of prestressing force	Field inspection		Continuous	
14. Verify placement of AAC masonry units and construction of thin-bed mortar joints (first 5000 SF of AAC masonry)	Field inspection		Continuous	
15. Verify placement of AAC masonry units and construction of thin-bed mortar joints (after the first 5000 SF of AAC masonry)	Field inspection		Level B - Periodic	
			Level C - Continuous	
16. Verify properties of thin-bed mortar for AAC masonry (first 5000 SF of AAC masonry)	Field inspection		Continuous	
17. Verify properties of thin-bed mortar for AAC masonry (after the first 5000 SF of AAC masonry)	Field inspection		Level B - Periodic	
			Level C - Continuous	
18. Prepare grout and mortar specimens	Field testing	Y	Level B - Periodic	
			Level C - Continuous	
19. Observe preparation of prisms	Field inspection		Level B - Periodic	
			Level C - Continuous	
1705.6 Soils				
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic	
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic	
3. Perform classification and testing of controlled fill materials.	Field inspection	Y	Periodic	
4. Verify use of proper materials, densities, and fill thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous	
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic	

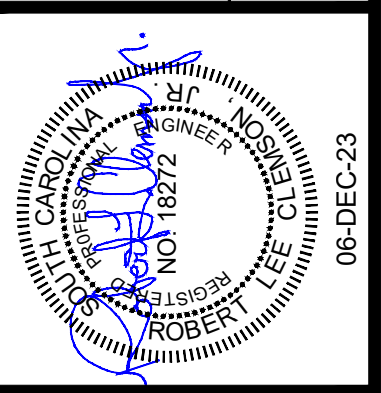
SCHEDULE OF SPECIAL INSPECTION (CONTINUED)				
Per IBC Section 1704 of the 2018 International Building Code and Section C408 of the 2018 IECC the following items require Special Inspections. Special inspectors must be employed by the Owner or registered design professional in responsible charge acting as the owner's agent.				
PROJECT ADDRESS	SERVICE	PERMIT NO.		
		APPLICABLE TO THIS PROJECT		
MATERIAL / ACTIVITY		Y/N	EXTENT	AGENT*
1705.11.2 Cold-formed Steel Special Inspections For Wind Resistance				
1. Inspection during welding operations of elements of the main windforce-resisting system	Shop (3) and field inspection	Y	Periodic	
2. Inspections for screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system	Shop (3) and field inspection	Y	Periodic	
1705.11.3 Wind-resisting Components				
1. Roof cladding	Shop (3) and field inspection	Y	Periodic	
2. Wall cladding	Shop (3) and field inspection	Y	Periodic	
1705.12.1 Structural Steel Special Inspections for Seismic Resistance				
Inspection of structural steel in accordance with AISC 341	Shop (3) and field inspection		In accordance with AISC 341	
1705.12.2 Structural Wood Special Inspections for Seismic Resistance				
1. Inspection of field gluing operations of elements of the seismic-force-resisting system	Field inspection		Continuous	
2. Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system	Shop (3) and field inspection	Y	Periodic	
1705.12.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance				
1. Inspection during welding operations of elements of the seismic-force-resisting system	Shop (3) and field inspection	Y	Periodic	
2. Inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system	Shop (3) and field inspection	Y	Periodic	
ADDITIONAL SPECIAL INSPECTIONS required by Building and Site Development				
Accessible Route Certification		Y		
Exterior Lighting Certification		Y		
Preliminary Commissioning Report			Per IECC	
Lighting Control Systems Report			Per IECC	
State Elevator Certification				
State Boiler Certification				
As-Built BMP required				
*Special inspection reports are to be kept on the job for Building Inspector Verification. Send reports bi-weekly to the ARCHITECT.				
*All discrepancies must be brought to the immediate attention of the contractor for correction. If not corrected discrepancies must be brought to the immediate attention of the building official, and design professional in responsible charge, before completion of that stage of work.				

SCHEDULE OF SPECIAL INSPECTION				
Per IBC Section 1704 of the 2018 International Building Code and Section C408 of the 2018 IECC the following items require Special Inspections. Special inspectors must be employed by the Owner or registered design professional in responsible charge acting as the owner's agent.				
PROJECT ADDRESS	SERVICE	PERMIT NO.		
		APPLICABLE TO THIS PROJECT		
MATERIAL / ACTIVITY		Y/N	EXTENT	AGENT*
*All discrepancies must be brought to the immediate attention of the contractor for correction. If not corrected discrepancies must be brought to the immediate attention of the building official, and design professional in responsible charge, before completion of that stage of work.				
* Inspection Agents				
FIRM	ADDRESS			
1.				
2.				
3.				
4.				
Notes:				
1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.				
2. The list of Special Inspectors may be submitted as a separate document, if noted so above.				
3. Special Inspections as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.1.				
4. Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element.				
5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.				
Are Requirements for Seismic Resistance included in the Statement of Special Inspections ? Yes No				
Are Requirements for Wind Resistance included in the Statement of Special Inspections ? Yes No				
Registered design professional in responsible charge:				
				SEAL
				DATE
TO BE POSTED ON THE JOB				

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RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



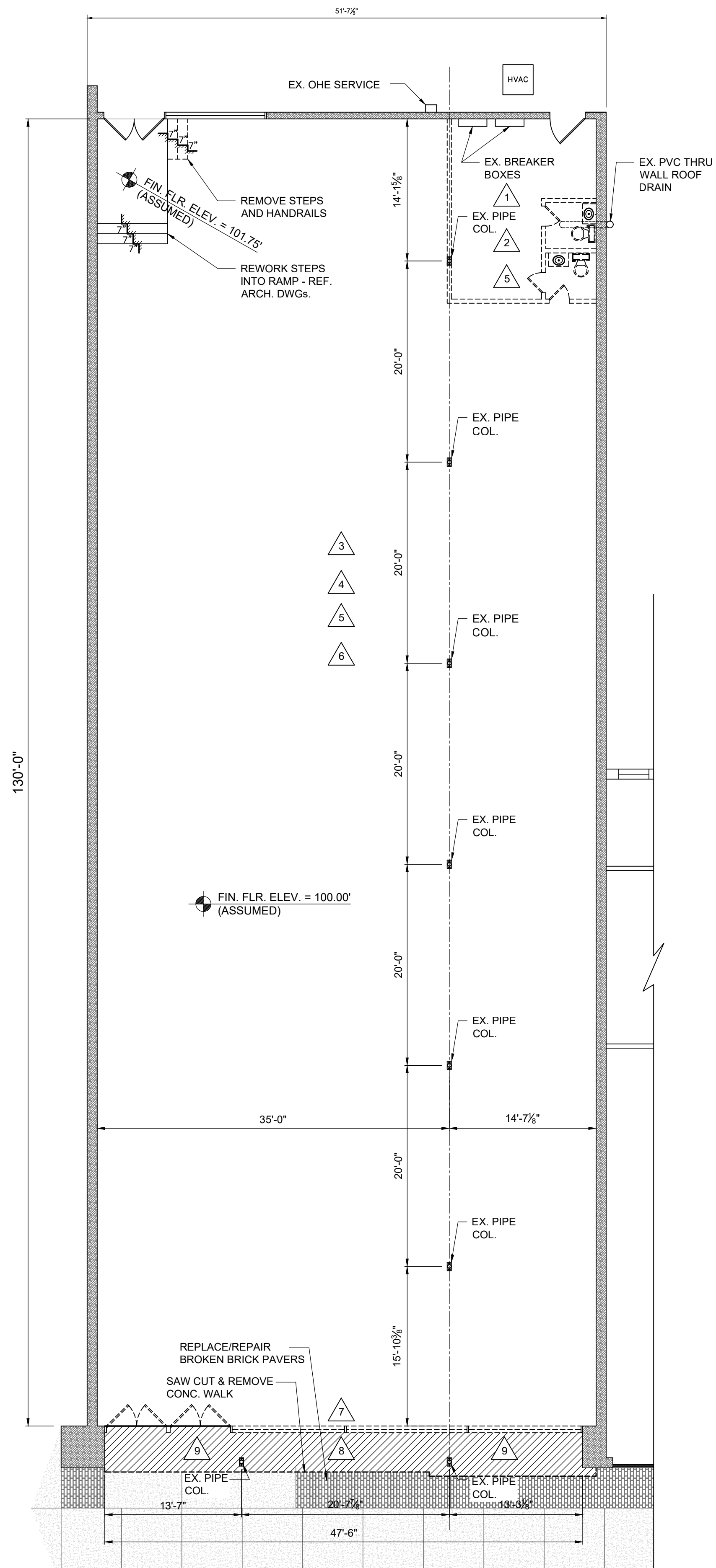
DATE: 10/2023

SHEET

S0.2

OF 10

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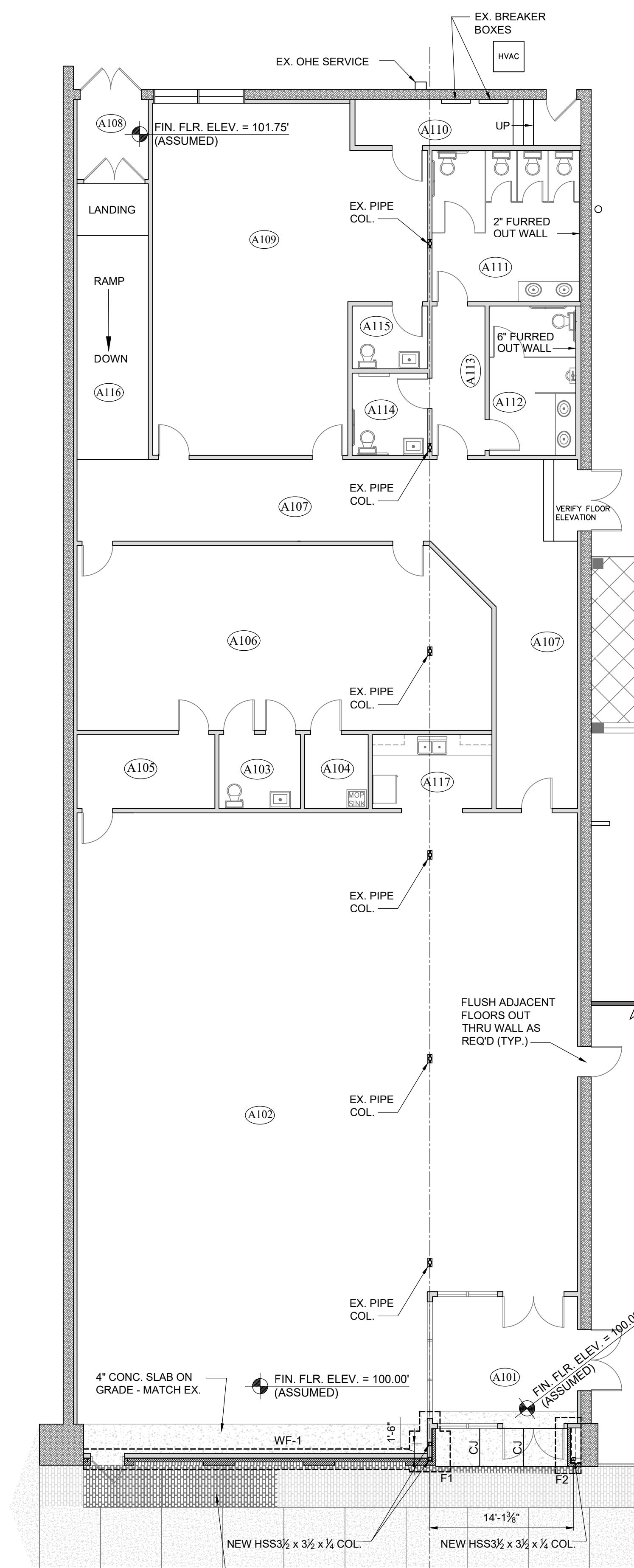
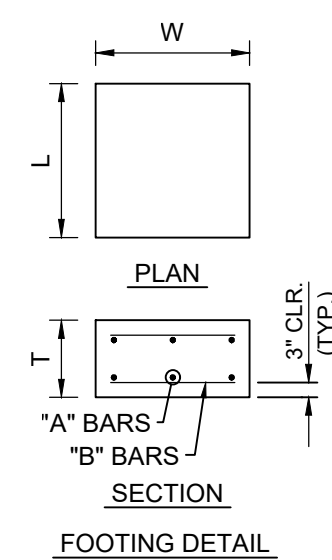


FIRST FLOOR / DEMOLITION PLAN
Scale : 1/8" = 1'-0"

△ DEMOLITION NOTES

1. REMOVE PLUMBING FIXTURES AND CAP PIPES. [DONE]
2. REMOVE ALL TOILET WALLS. [DONE]
3. REMOVE ALL CEILING TILES. [DONE]
4. REMOVE HVAC AND ALL DUCT. [DONE]
5. REMOVE ALL LIGHTING AND WIRING. [DONE]
6. REMOVE ALL OVERHEAD WIRING. [DONE]
7. REMOVE WALL, DOOR AND WINDOWS. [DONE]
8. REMOVE EXTERIOR SOFFIT CEILING. [DONE]
9. REMOVE COLUMNS, BEAM, & PARAPET COMPLETELY. [PENDING - INCLUDE IN BID]

FOOTING SCHEDULE						
MARK	W	L	T	"A" BARS	"B" BARS	LAYER
WF-1	2'-0"	CONT.	1'-0"	3-#5 BARS	#5 @ 30"	BOTTOM ONLY
F1	4'-0"	4'-0"	1'-0"	4-#5 BARS	4-#5 BARS	BOTTOM ONLY
F2	2'-6"	5'-6"	1'-0"	3-#5 BARS	6-#5 BARS	BOTTOM ONLY

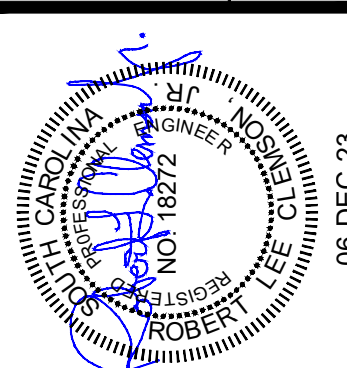


FIRST FLOOR PLAN
Scale : 1/8" = 1'-0"

**RENOVATIONS FOR
ONE CHURCH**

126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.

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DATE: 10/2023

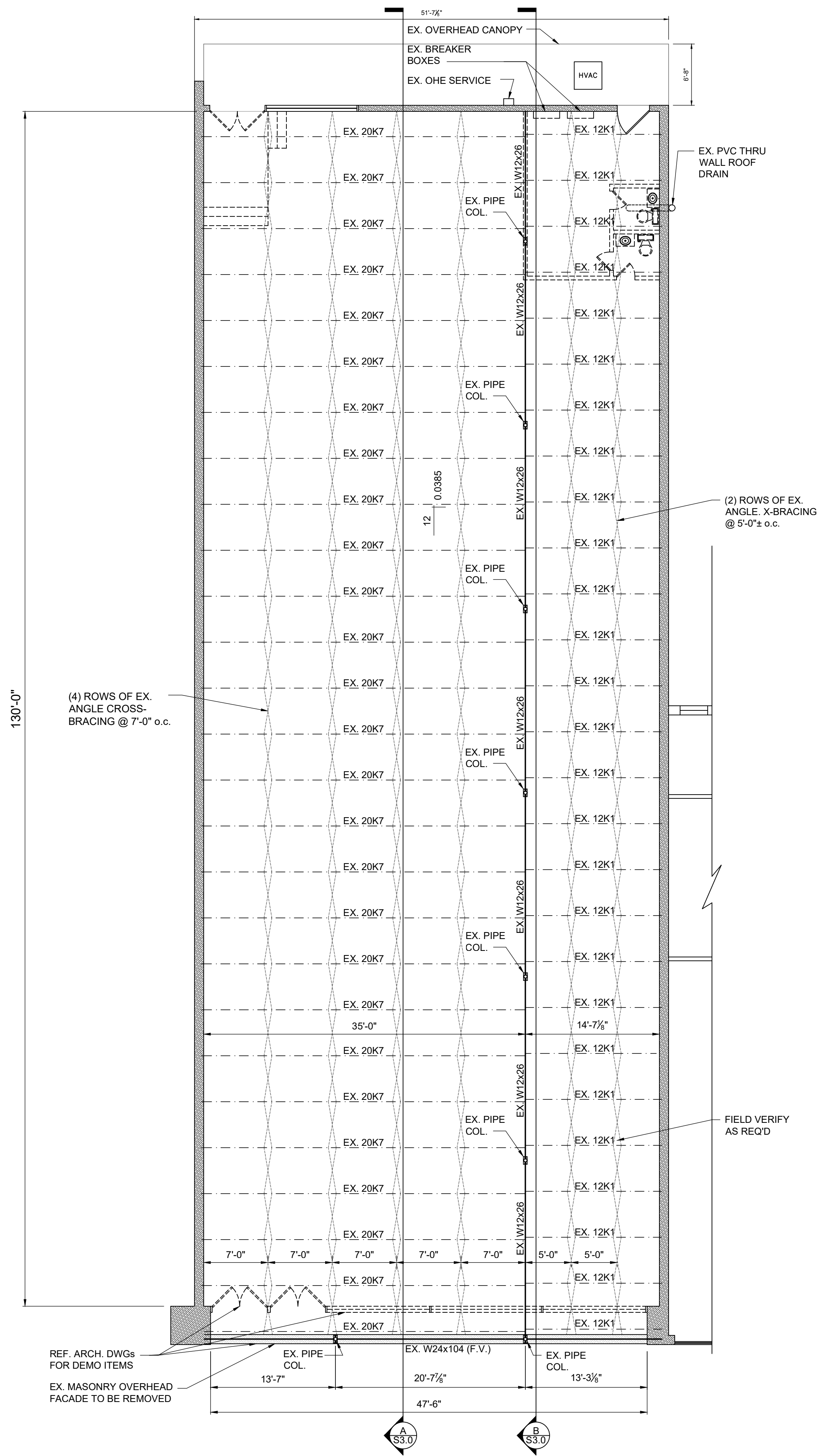
SHEET

S1.0

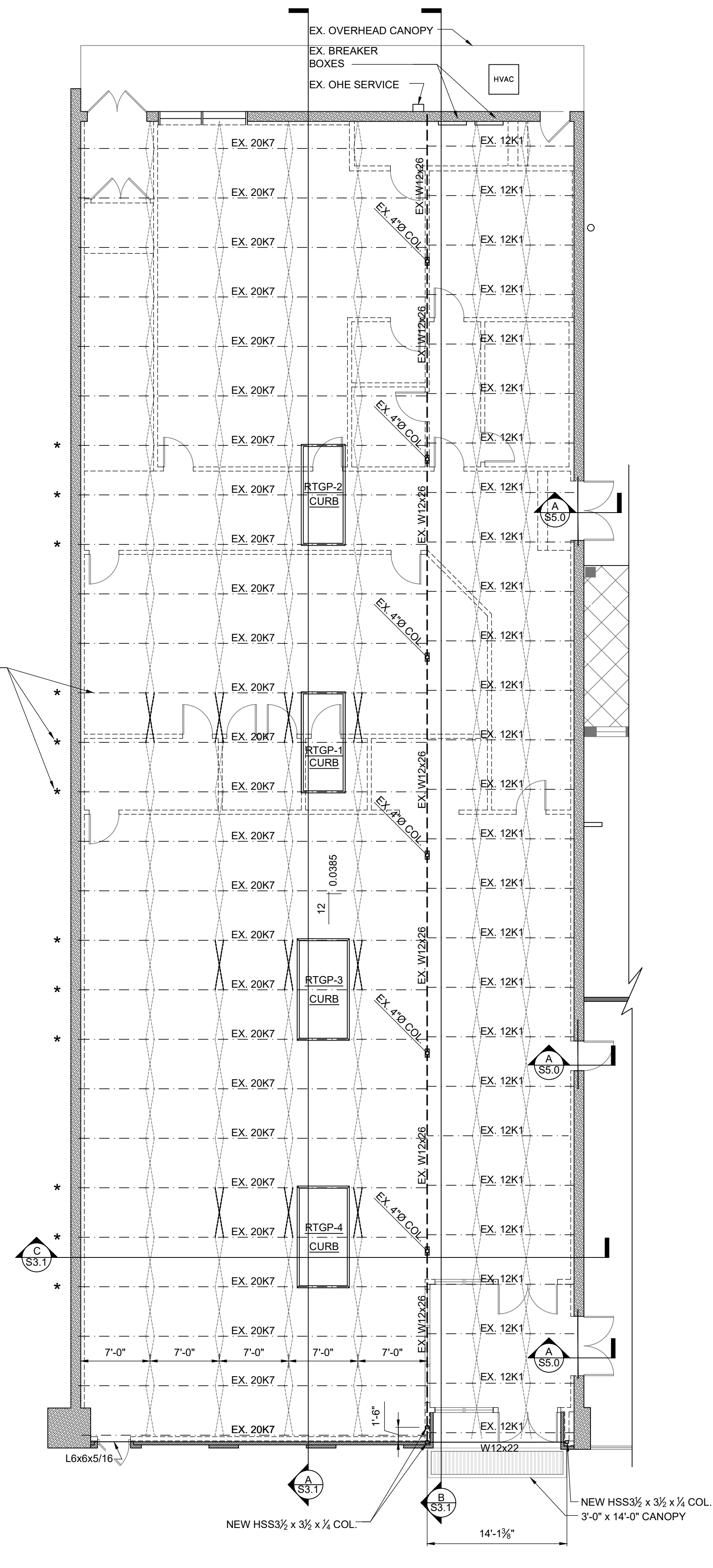
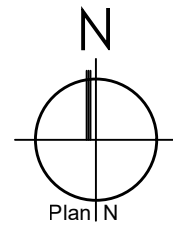
OF 10

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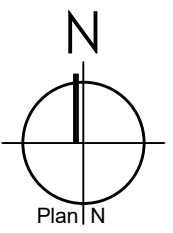
06-DEC-23



EX. ROOF FRAMING / DEMOLITION PLAN
Scale : 1/8" = 1'-0"

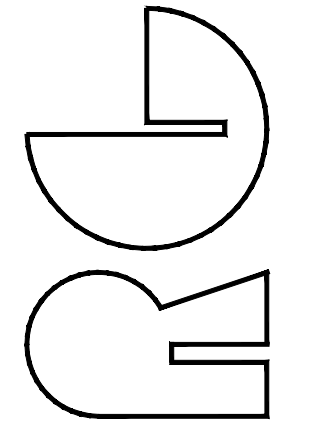


ROOF FRAMING PLAN
Scale : 1/8" = 1'-0"

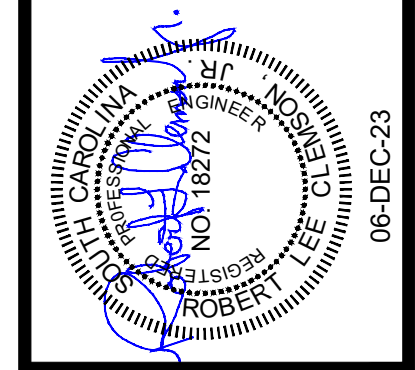


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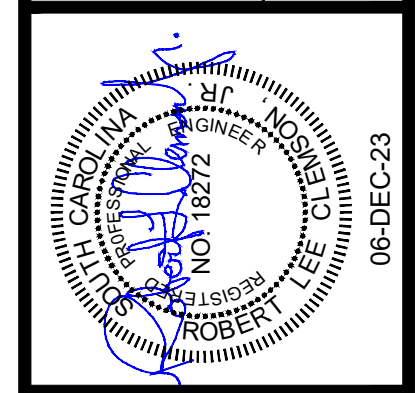
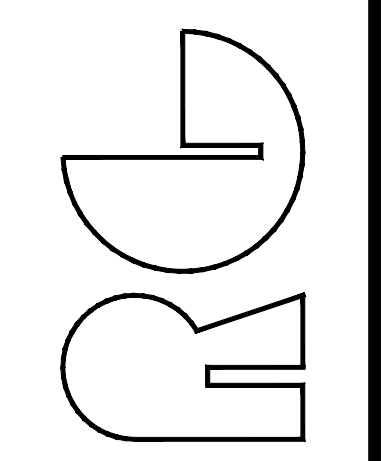


RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



DATE: 10/2023

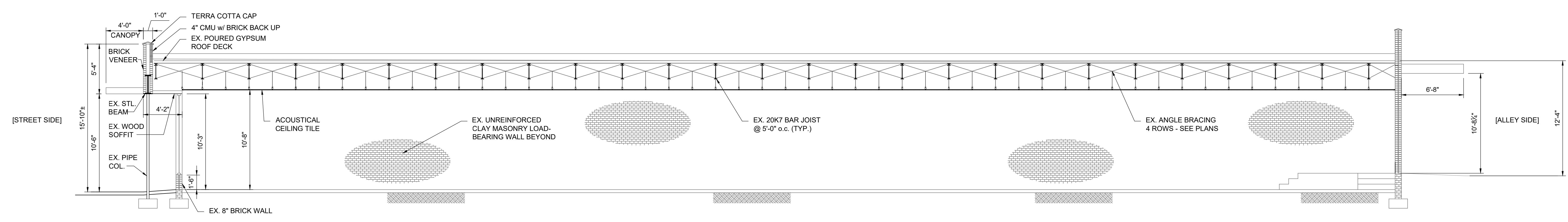
SHEET
S2.0
OF 10



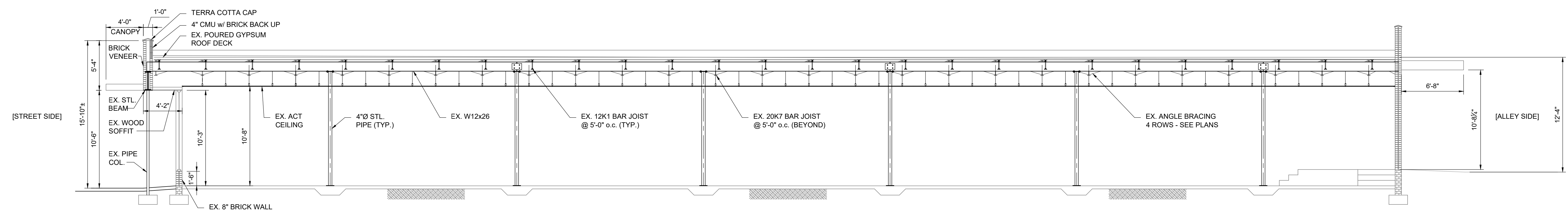
DATE: 10/2023

SHEET
S3.0
 OF 10

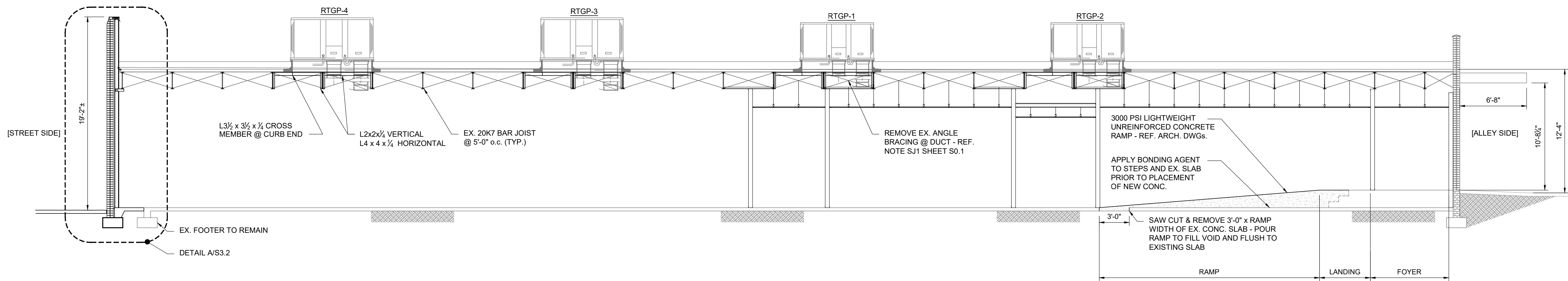
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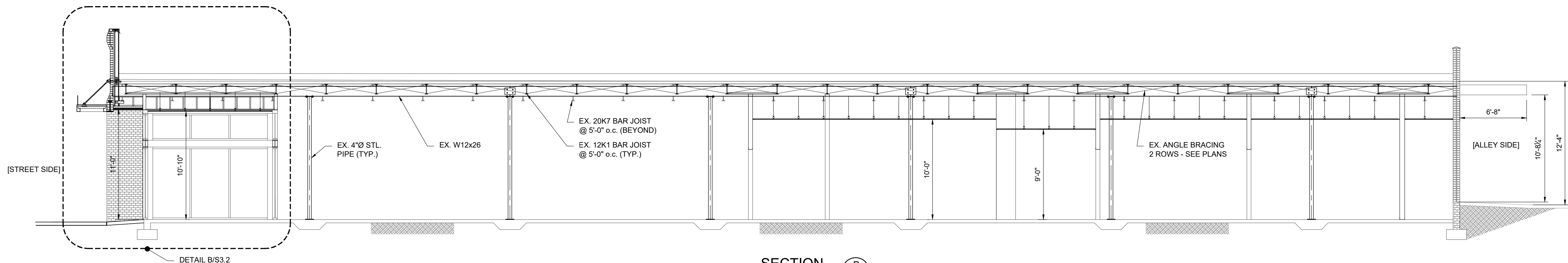
SECTION A
 SCALE: 3/16" = 1'-0"



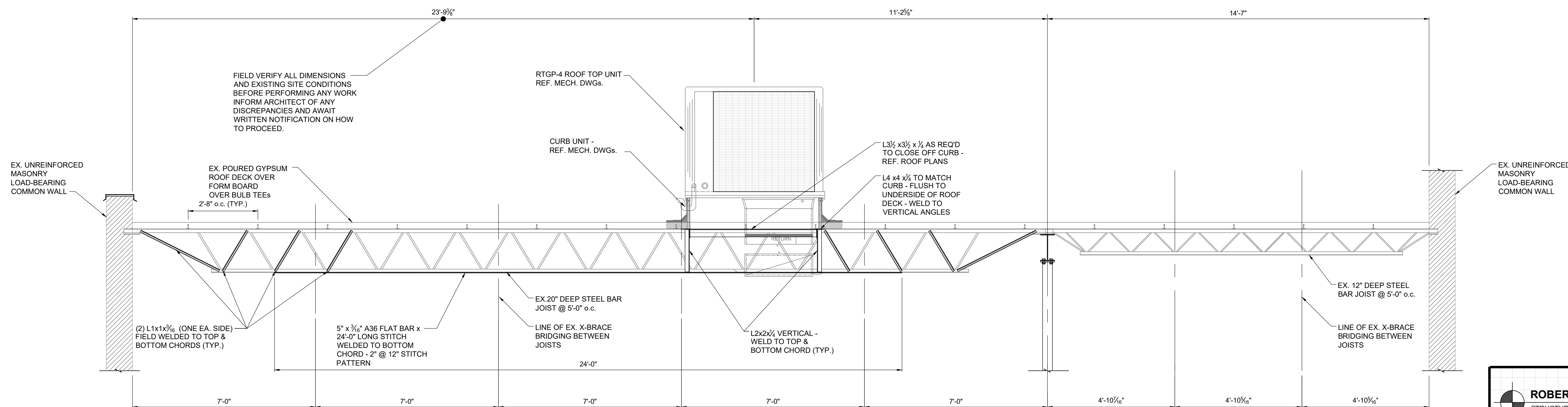
SECTION B
 SCALE: 3/16" = 1'-0"



SECTION A
SCALE: 3/16" = 1'-0"

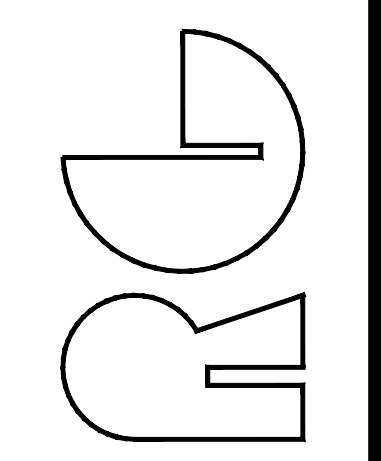


SECTION B
SCALE: 3/16" = 1'-0"

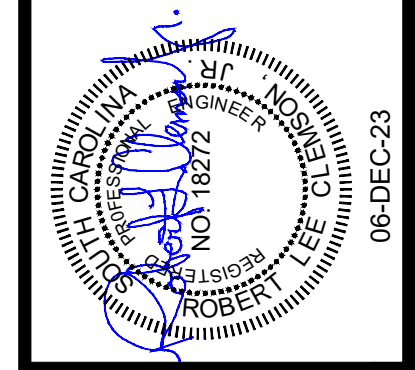


SECTION C
SCALE: 1/2" = 1'-0"

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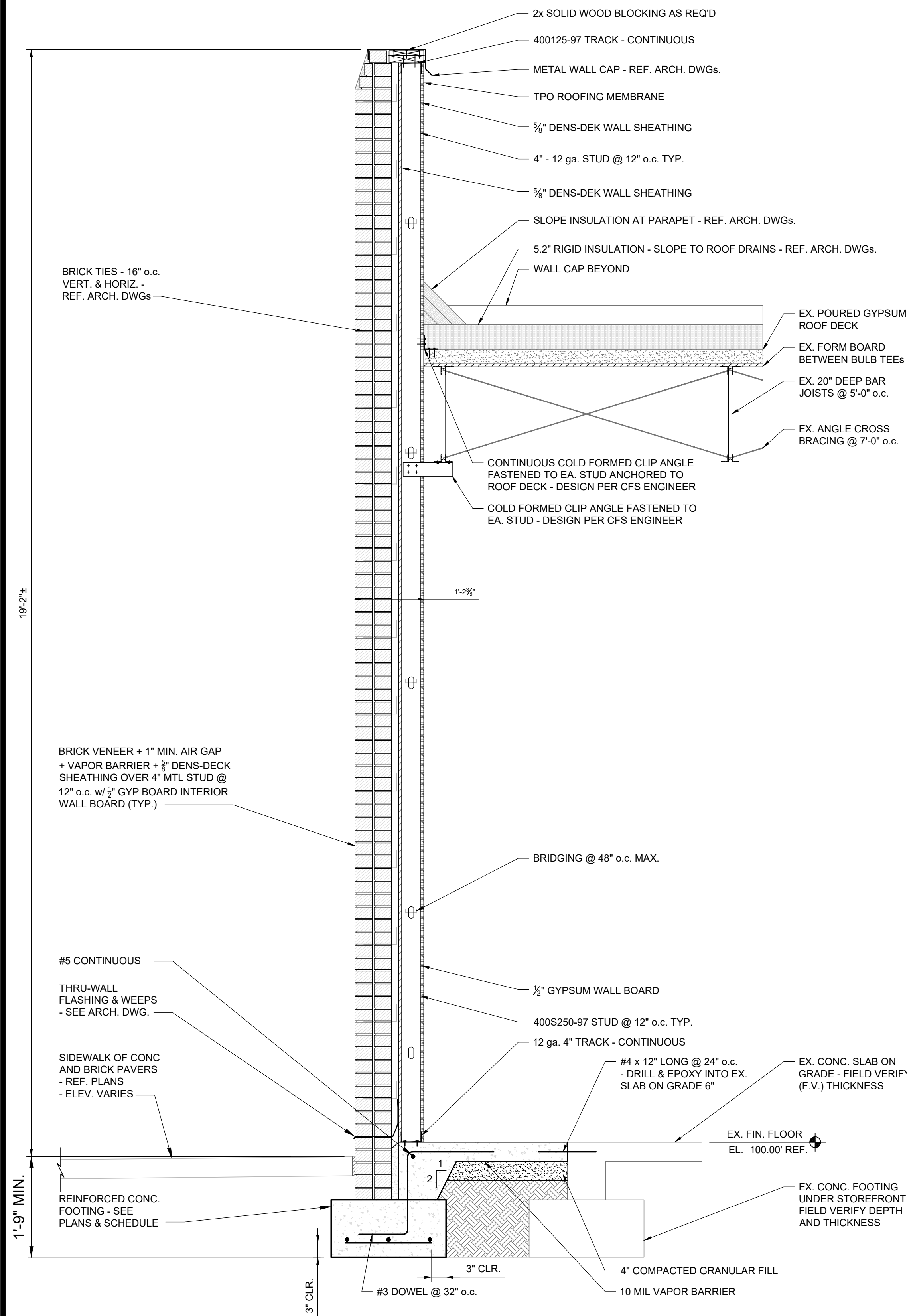
RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



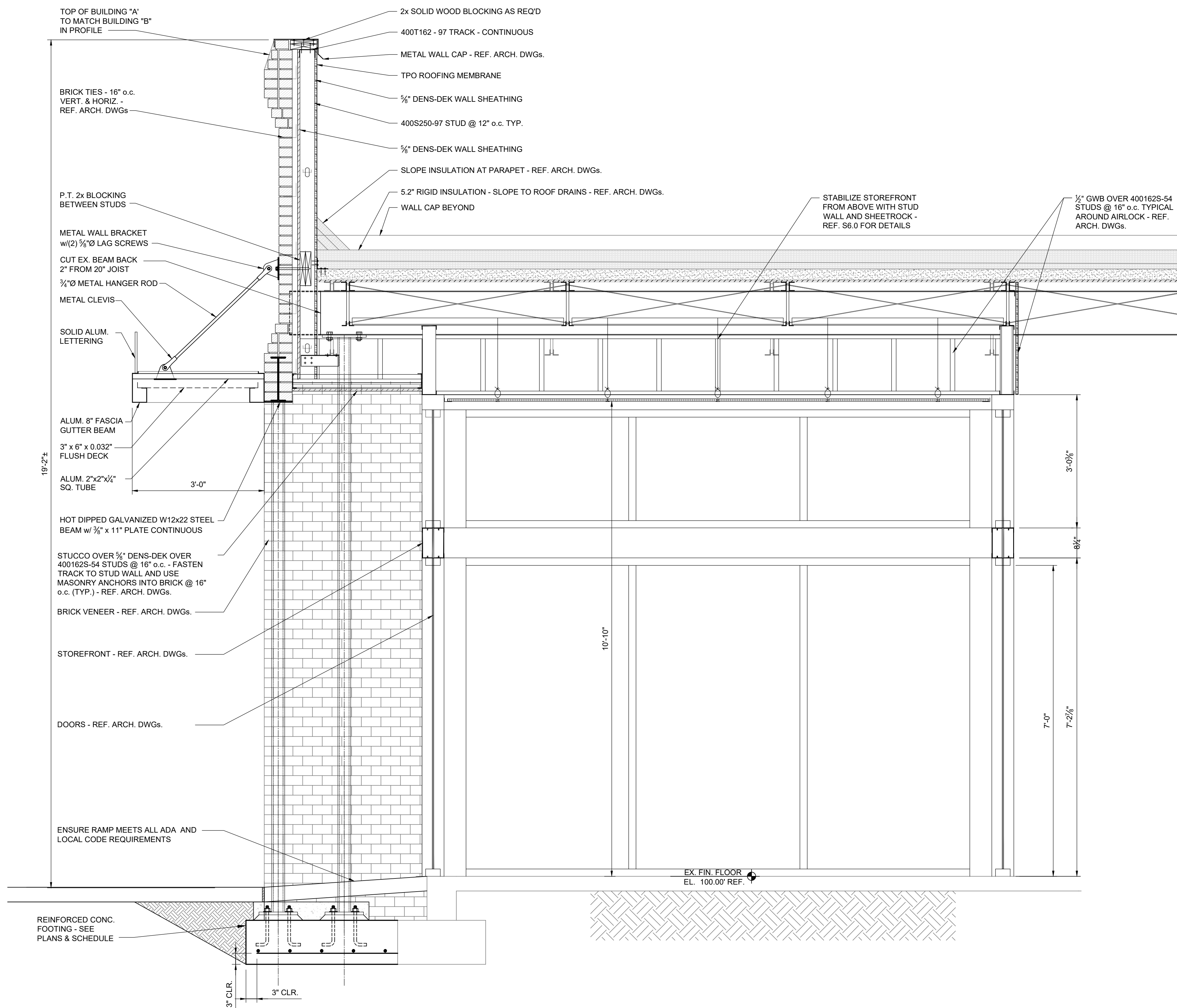
DATE: 10/2023

SHEET
S3.1
OF 10

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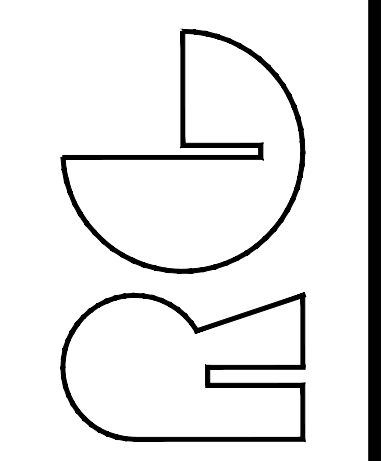


A FRONT EXTERIOR WALL SECTION
SCALE: 3/4" = 1'-0"

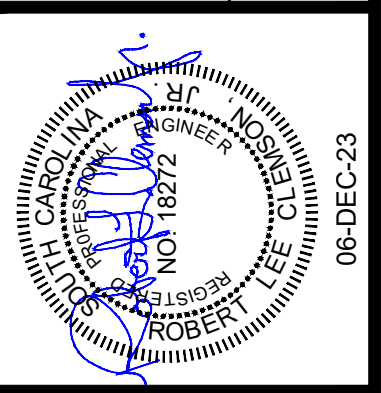


B FRONT ENTRYWAY SECTION
SCALE: 3/4" = 1'-0"

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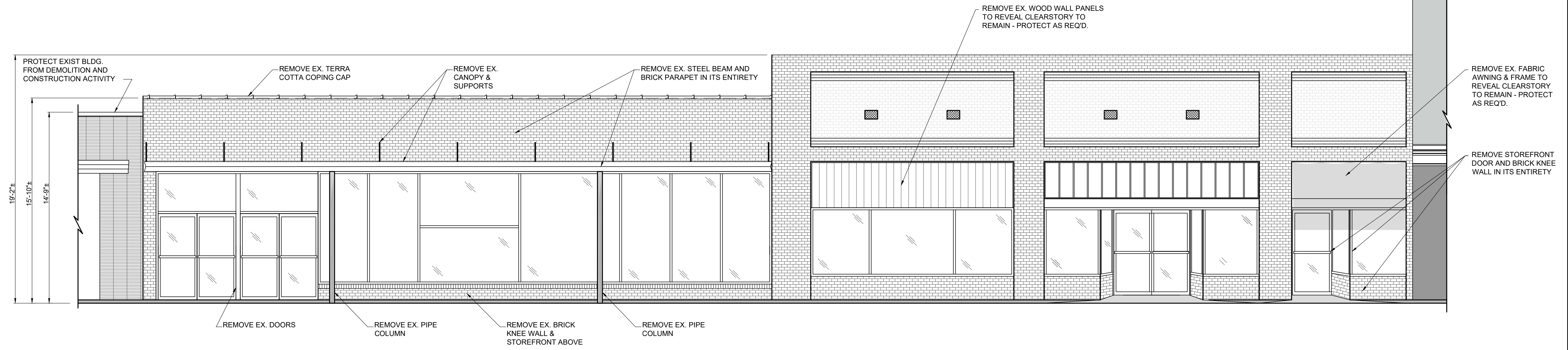
RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



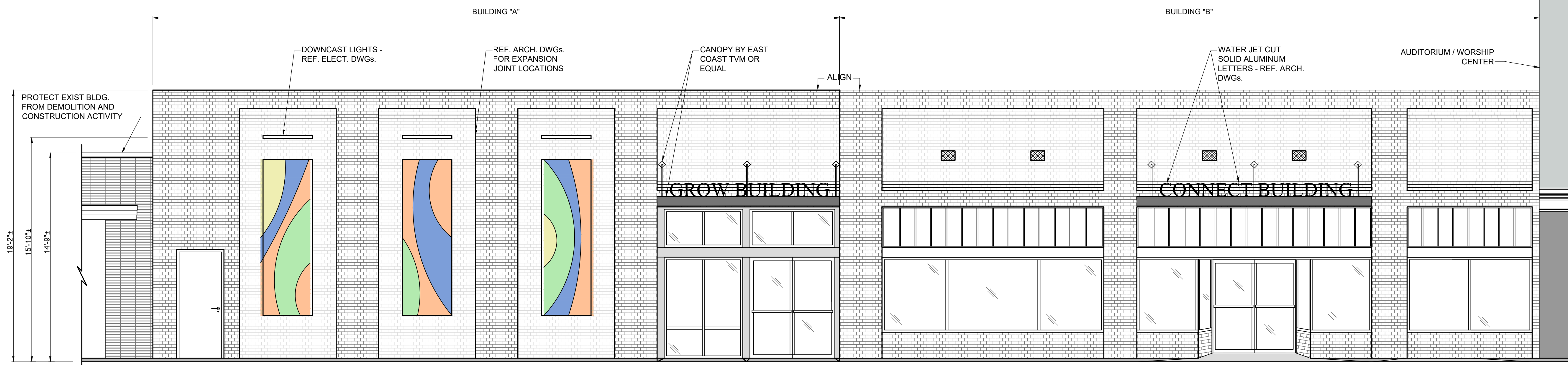
DATE: 10/2023

SHEET
S3.2
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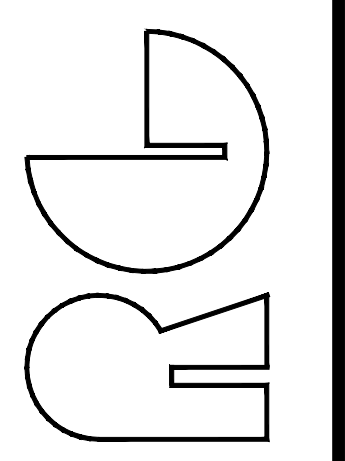


ELEVATION - EXISTING A
SCALE: 1/4" = 1'-0"

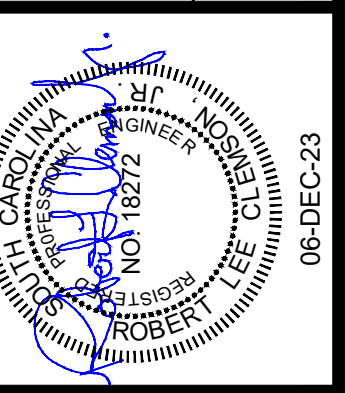


ELEVATION - PROPOSED B
SCALE: 1/4" = 1'-0"

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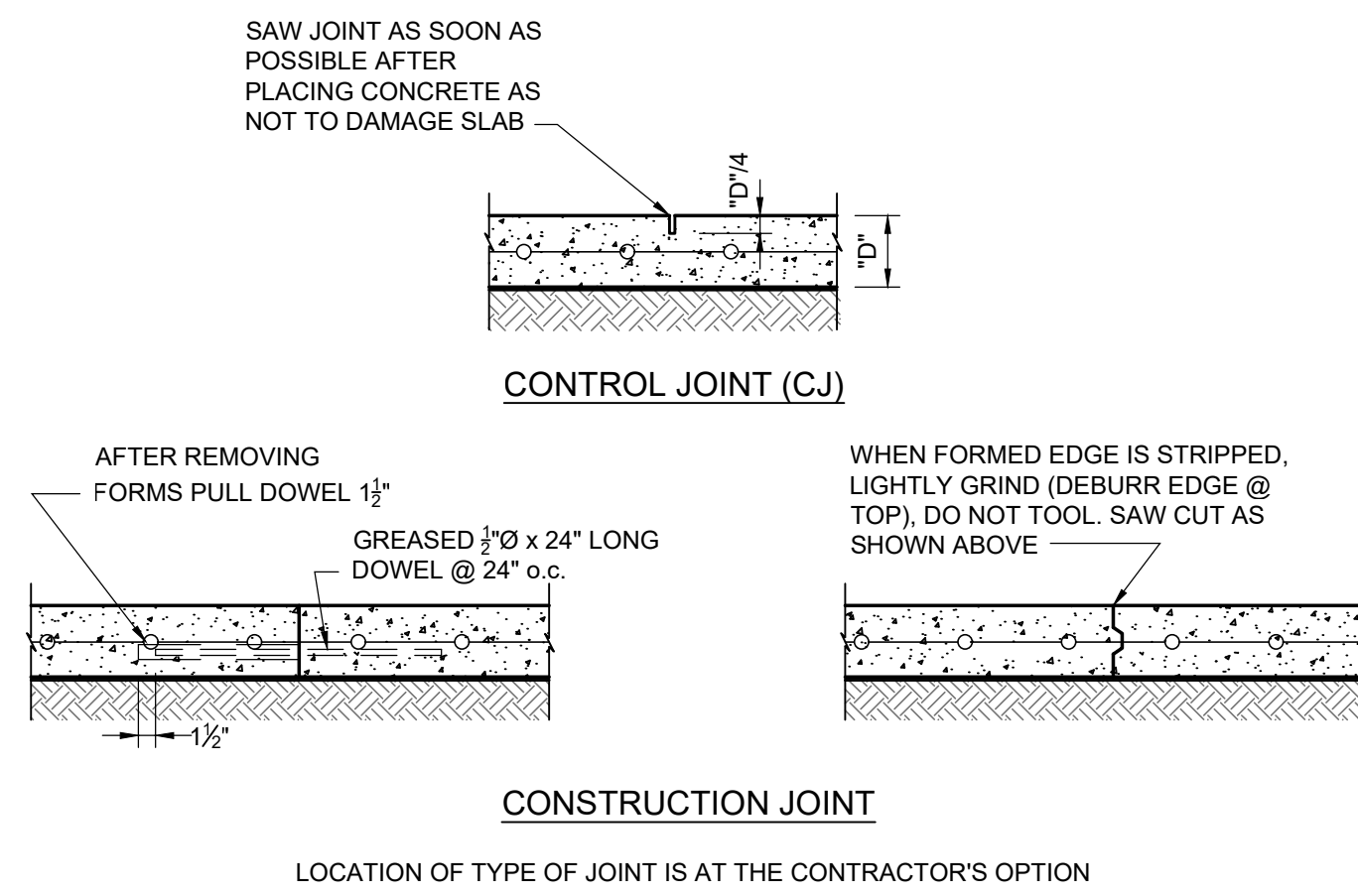
RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



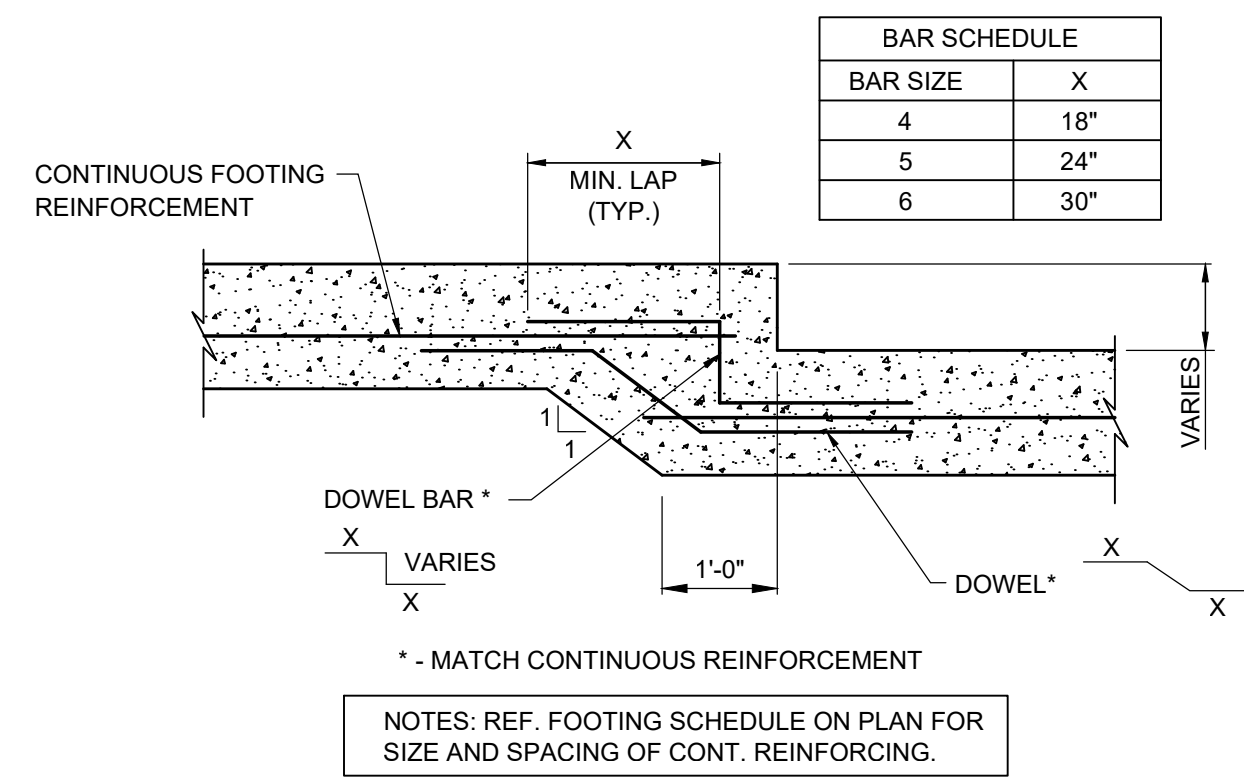
DATE: 10/2023

SHEET
S4.0
OF 10

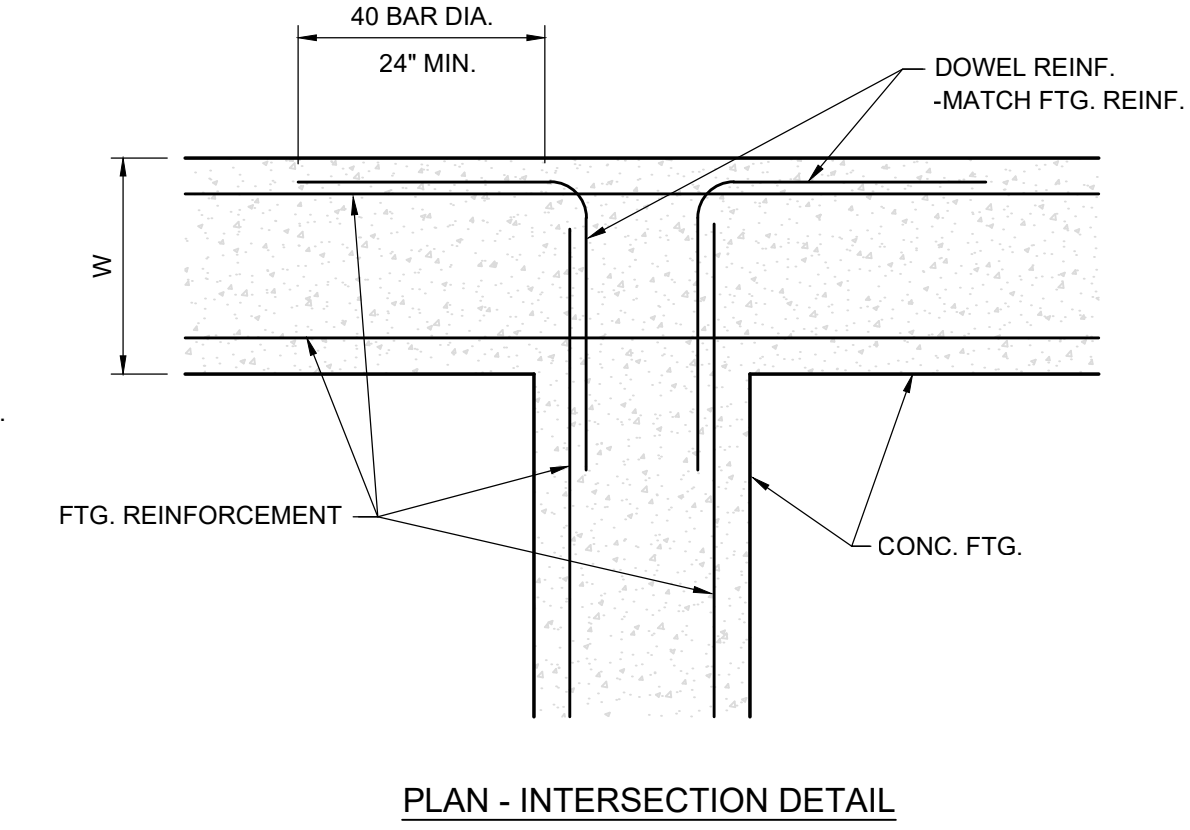
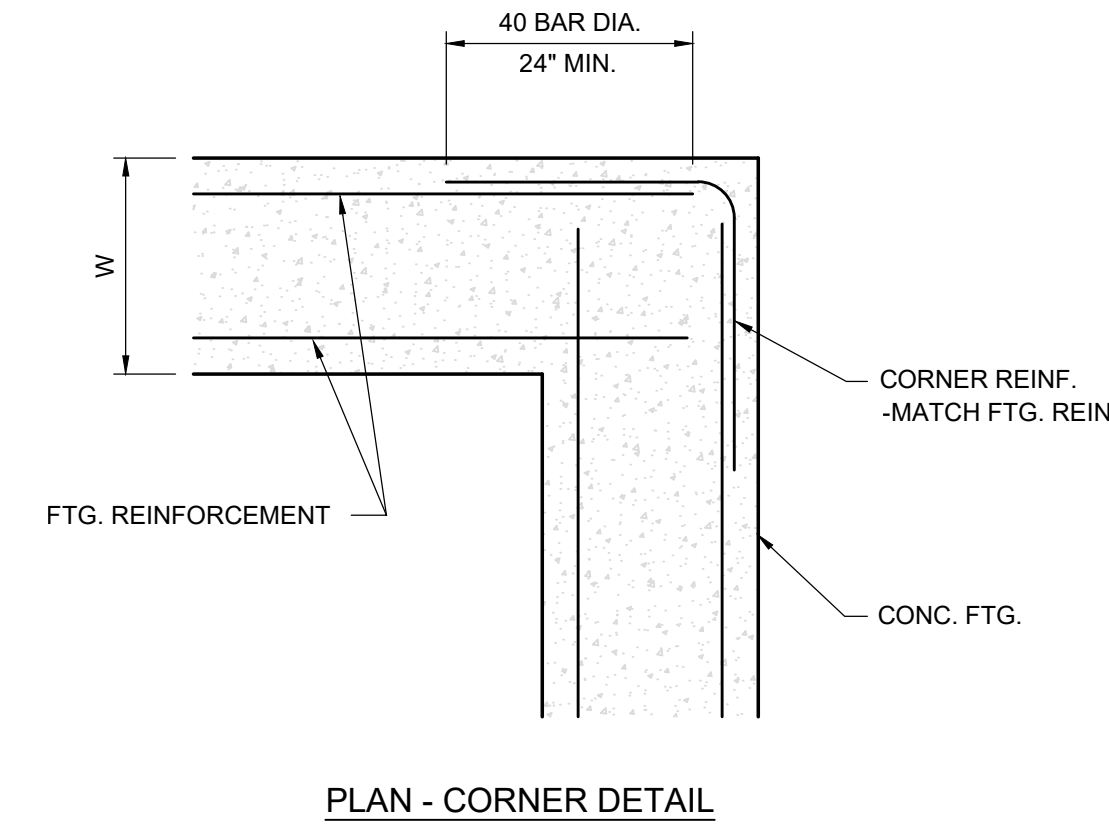
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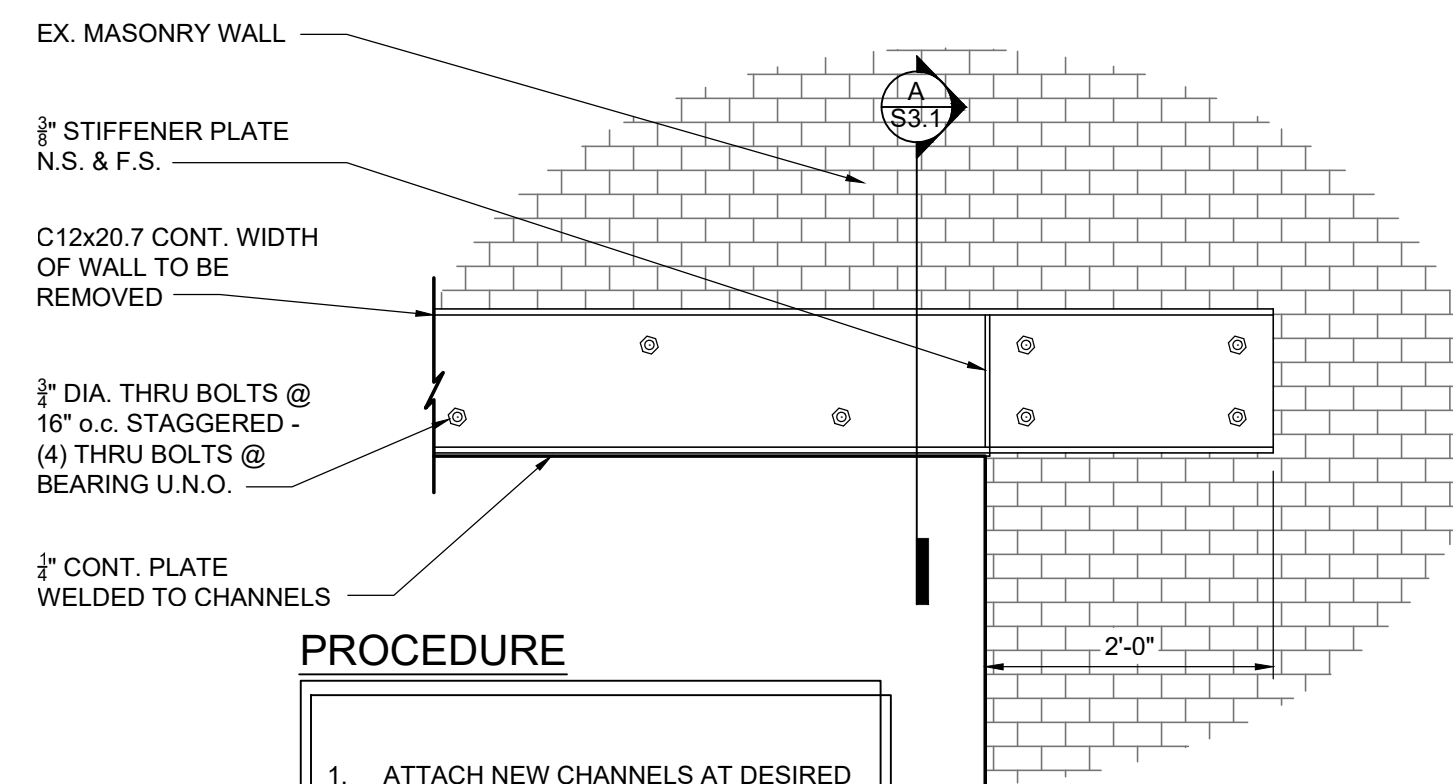
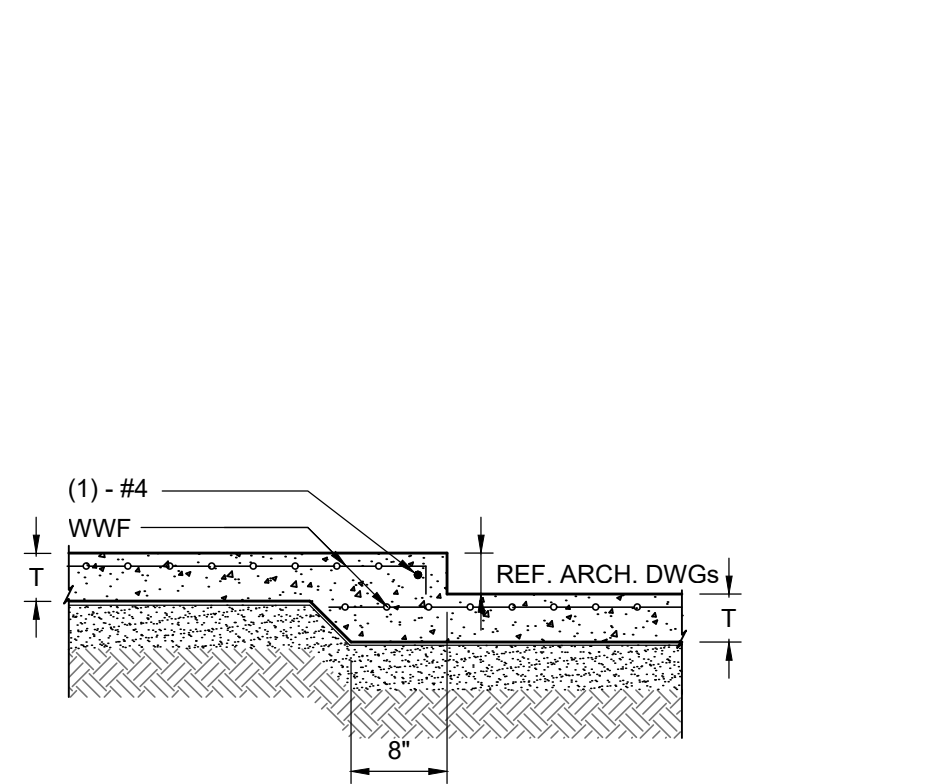
1 CONSTRUCTION & CONTROL DETAILS
S5.0 SCALE: NO SCALE



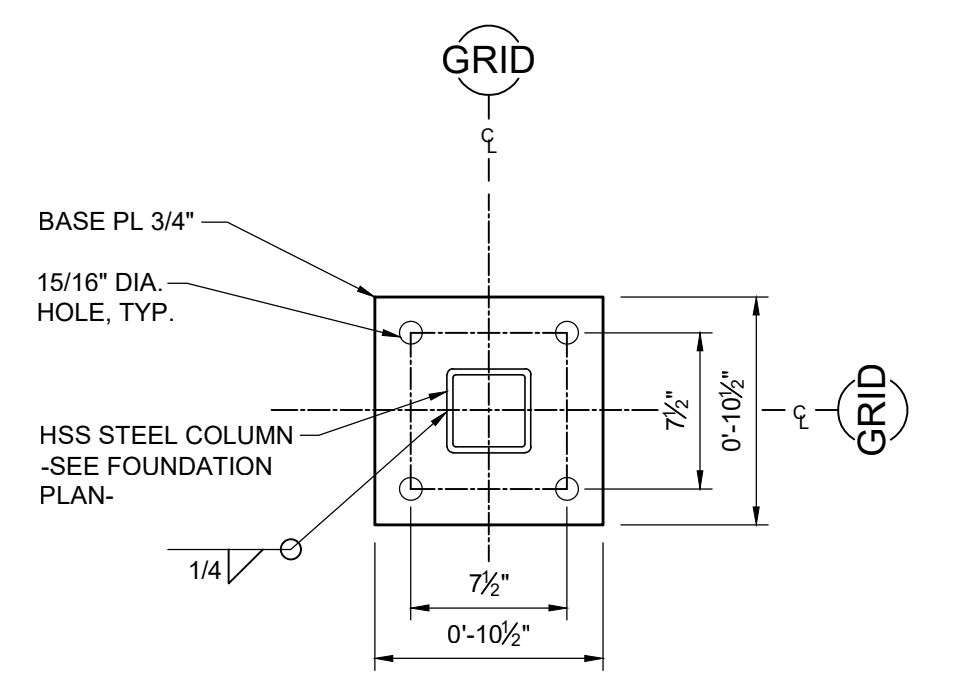
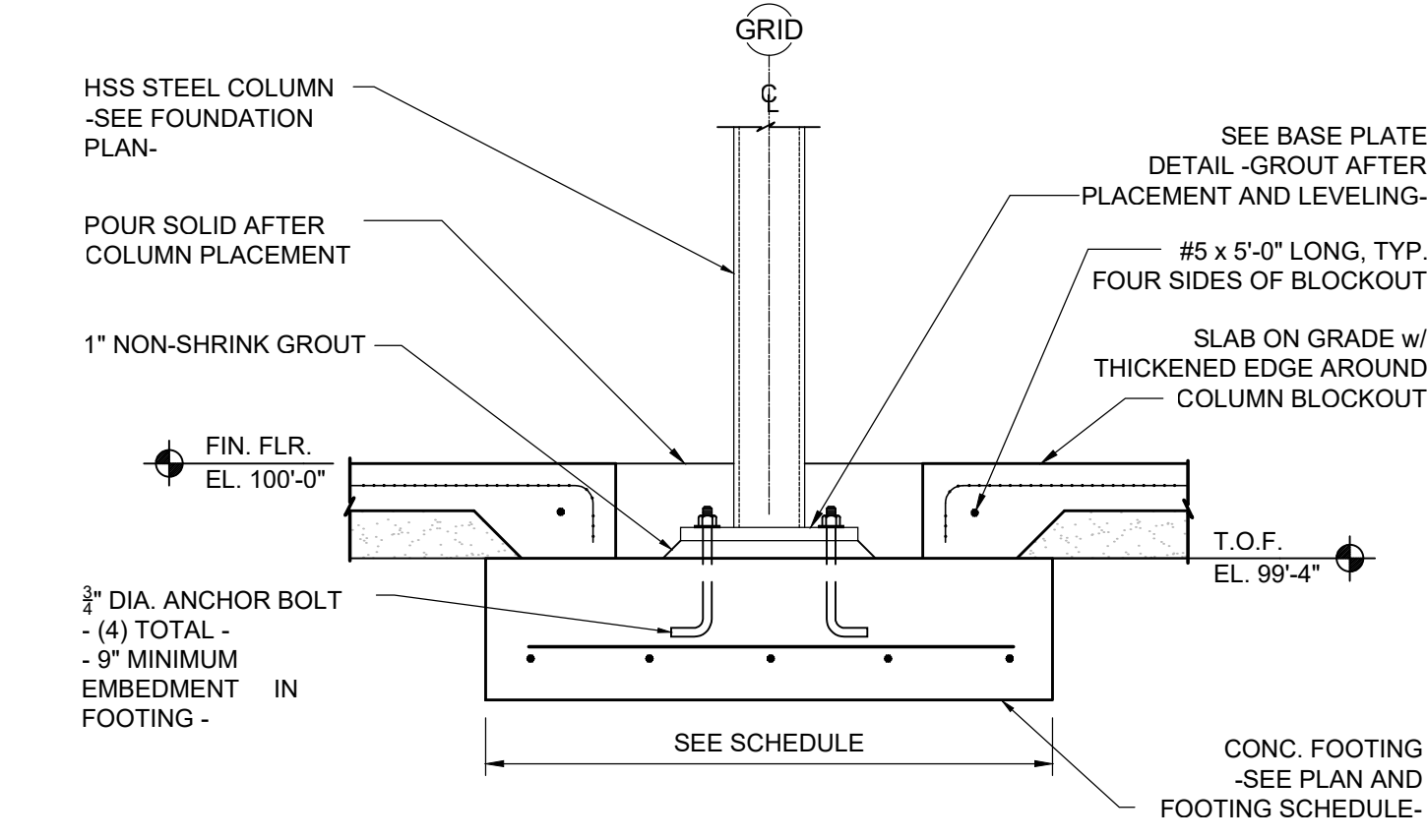
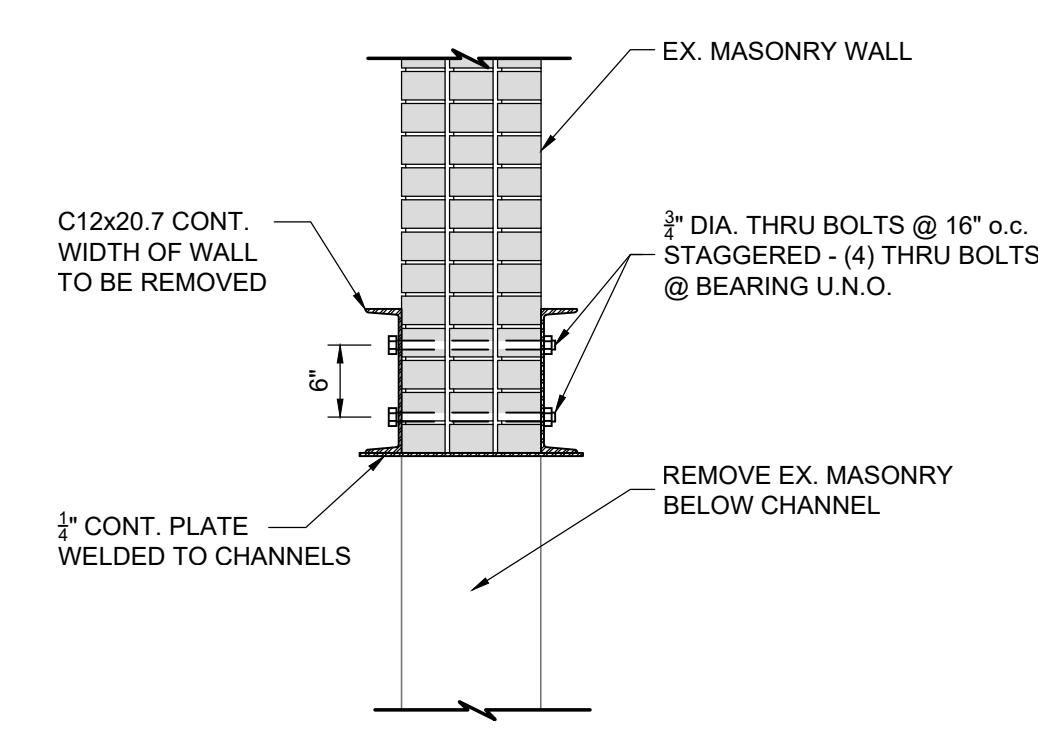
2 STEP FOOTING DETAIL (AS REQ'D)
S5.0 SCALE: NO SCALE



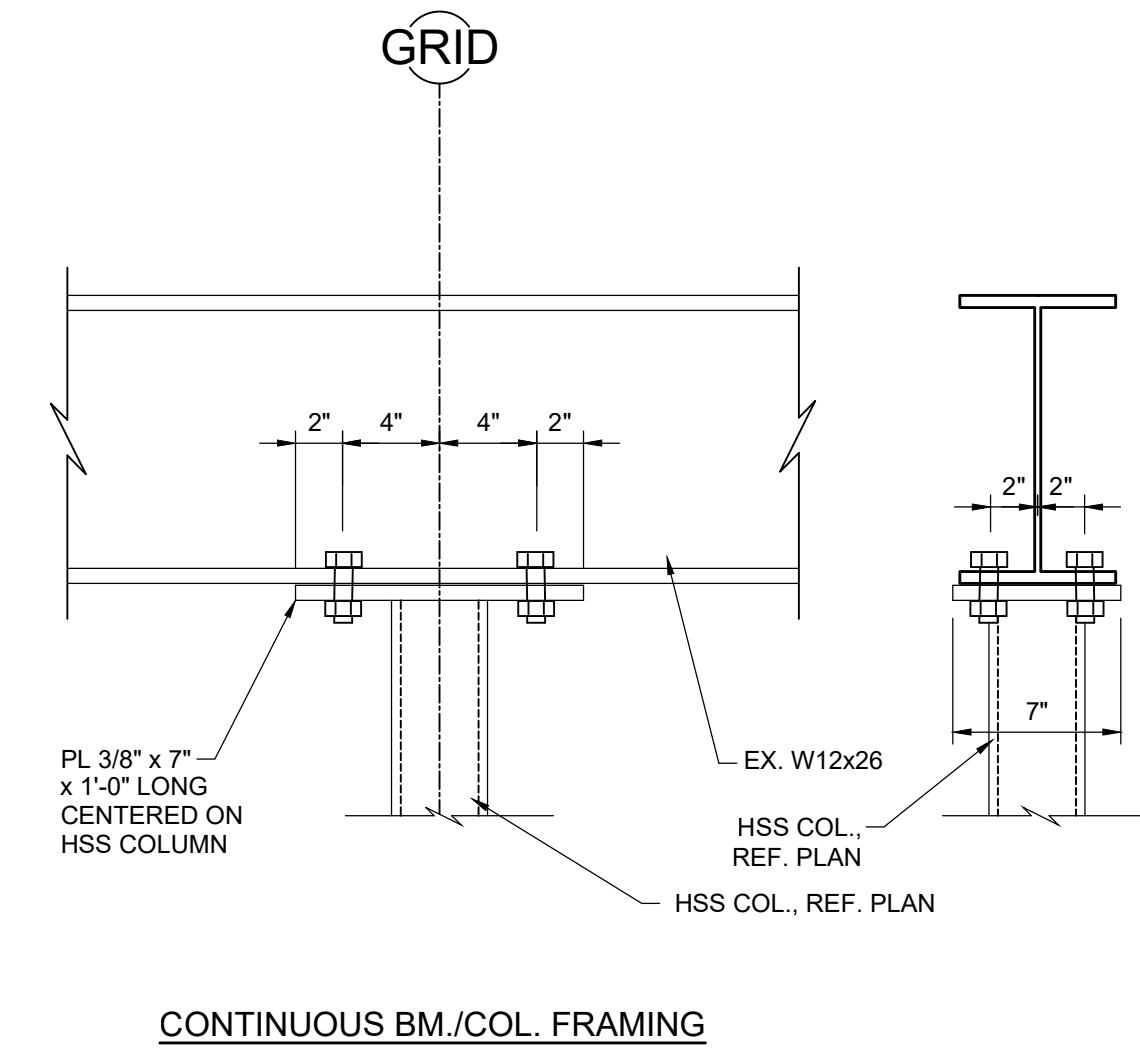
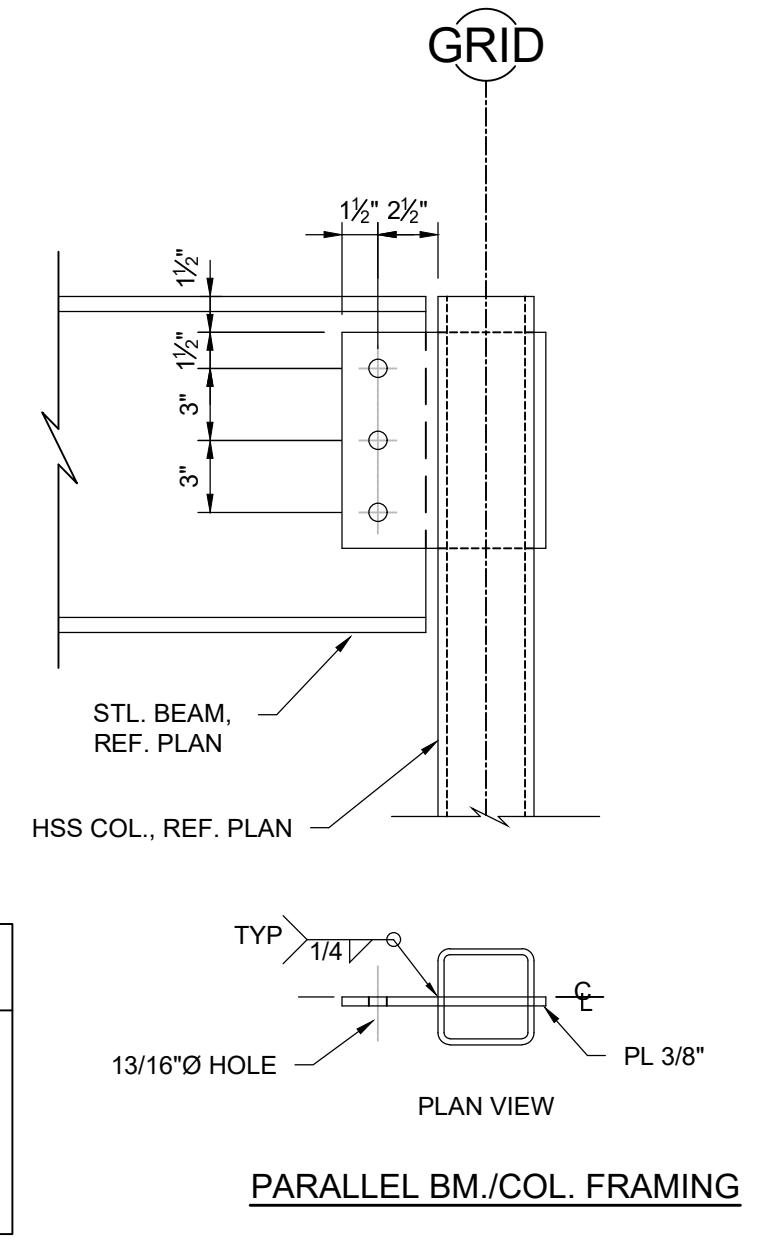
3 TYPICAL CONCRETE REINFORCEMENT DETAILS
S5.0 Scale: 3/4" = 1'-0"



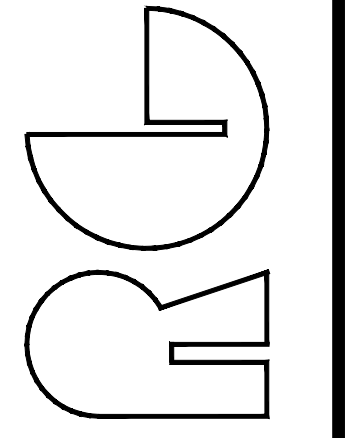
- PROCEDURE
1. ATTACH NEW CHANNELS AT DESIRED ELEVATION w/BOLTS AS SHOWN.
 2. SAW CUT MASONRY WALL BELOW CHANNEL & REMOVE FOR OPENING.
 3. WELD CLOSURE PLATE TO BOTTOM OF CHANNELS.
 4. CONTRACTOR TO REPAIR ANY HAIRLINE CRACKS THAT MAY OCCUR.



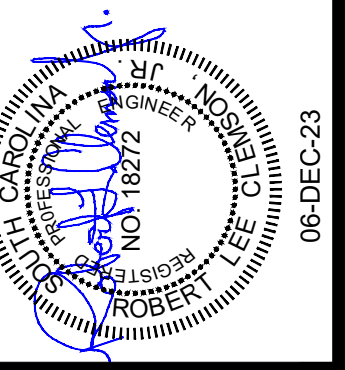
BEAM SIZE	# BOLTS, '1'
W8, C8, C9	2
W12, MC12	3
W14	3
W16	4
W18	4



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RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.

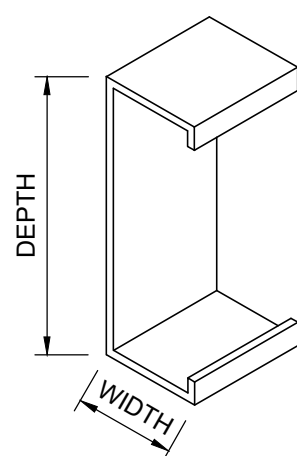


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SHEET
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06-DEC-23



THICKNESS TABLE	
THICKNESS	GAGE
18	25 GA.
27	22 GA.
33	20 GA.
43	18 GA.
54	16 GA.
68	14 GA.
97	12 GA.

DEPTH OF STUD 8.00 INCHES

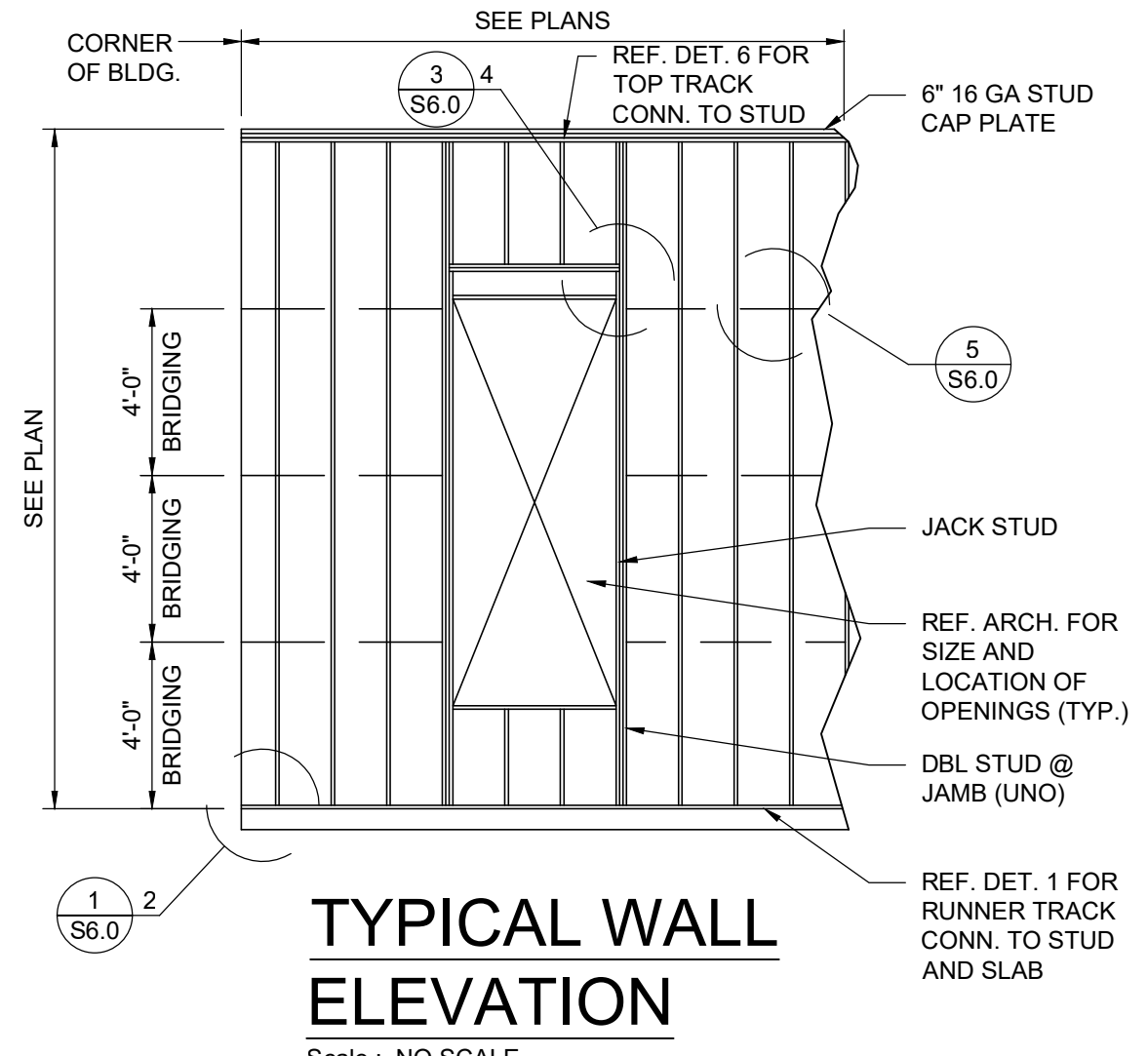
WIDTH OF MEMBER 162 = 1.62" = 1 1/2"

800S162 - 33

THICKNESS OF STEEL IN HUNDRETHS OF AN INCH - SEE TABLE ABOVE

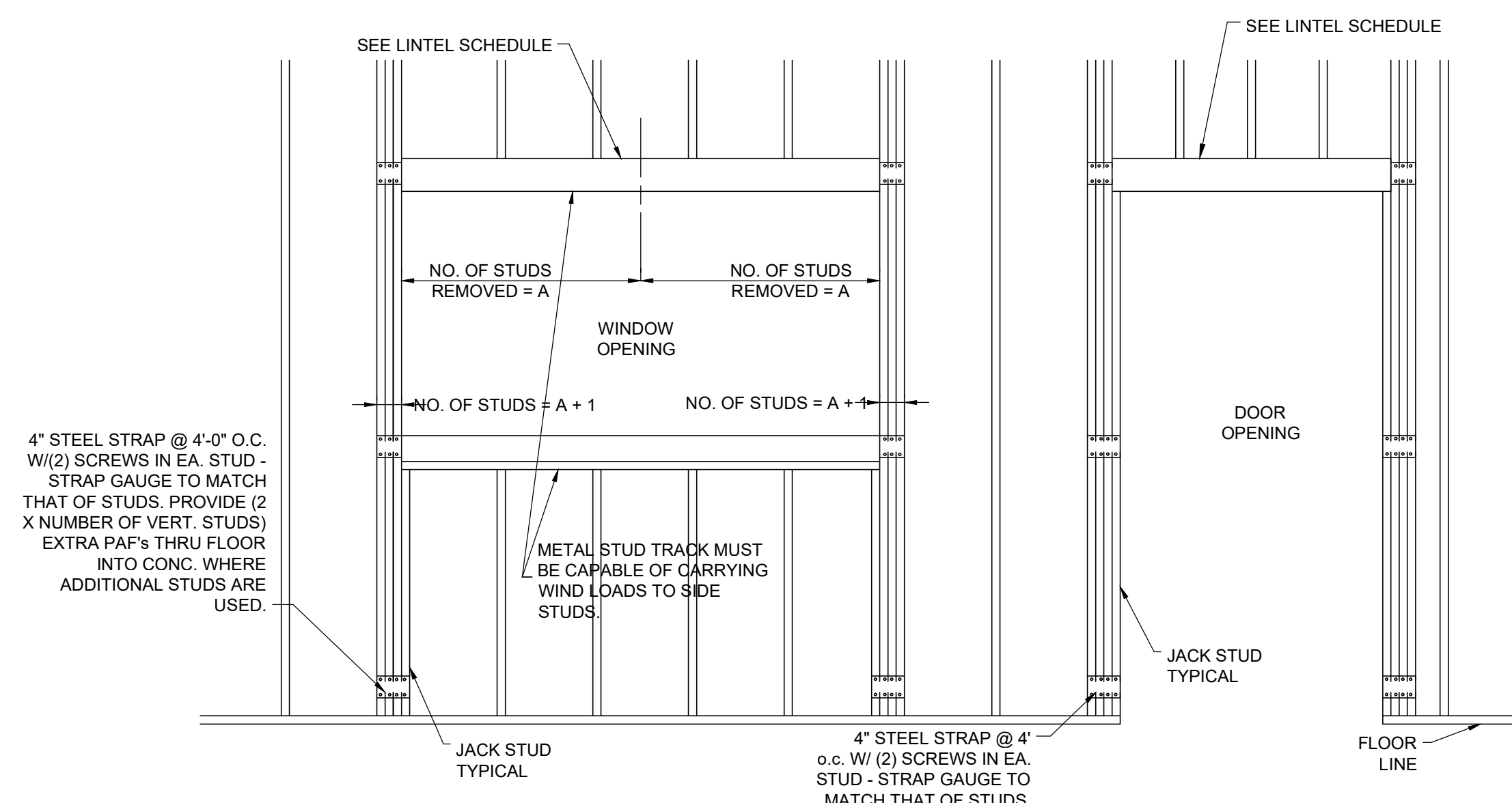
SHAPE OF MEMBER
 S = STUD
 T = TRACK
 F = FURRING CHANNEL
 DWS = DRY WALL STUD

LIGHT-GAGE DESIGNATION (SSMA)



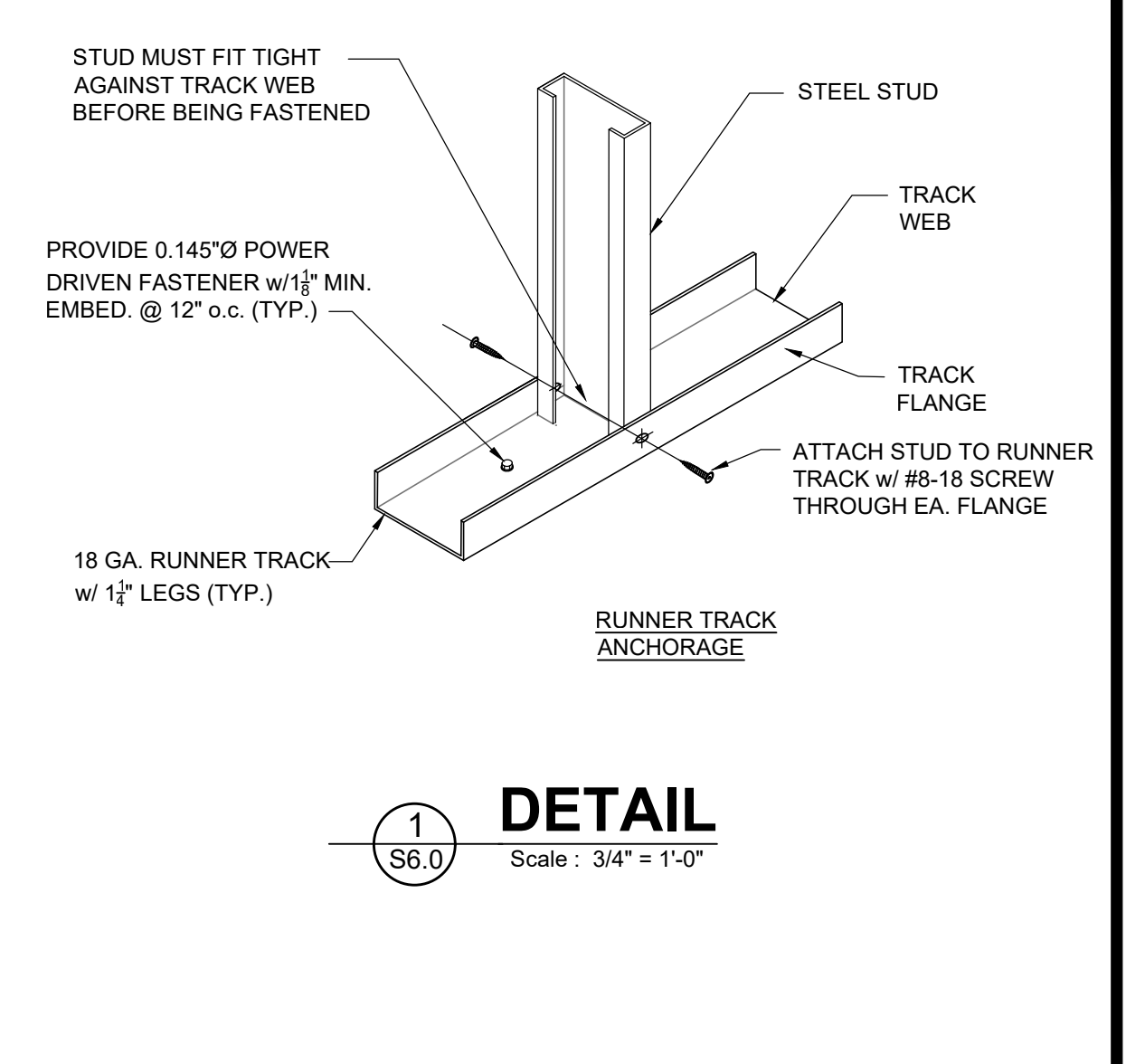
TYPICAL WALL ELEVATION

Scale: NO SCALE



TYPICAL REINFORCEMENT @ MTL. STUD OPENINGS

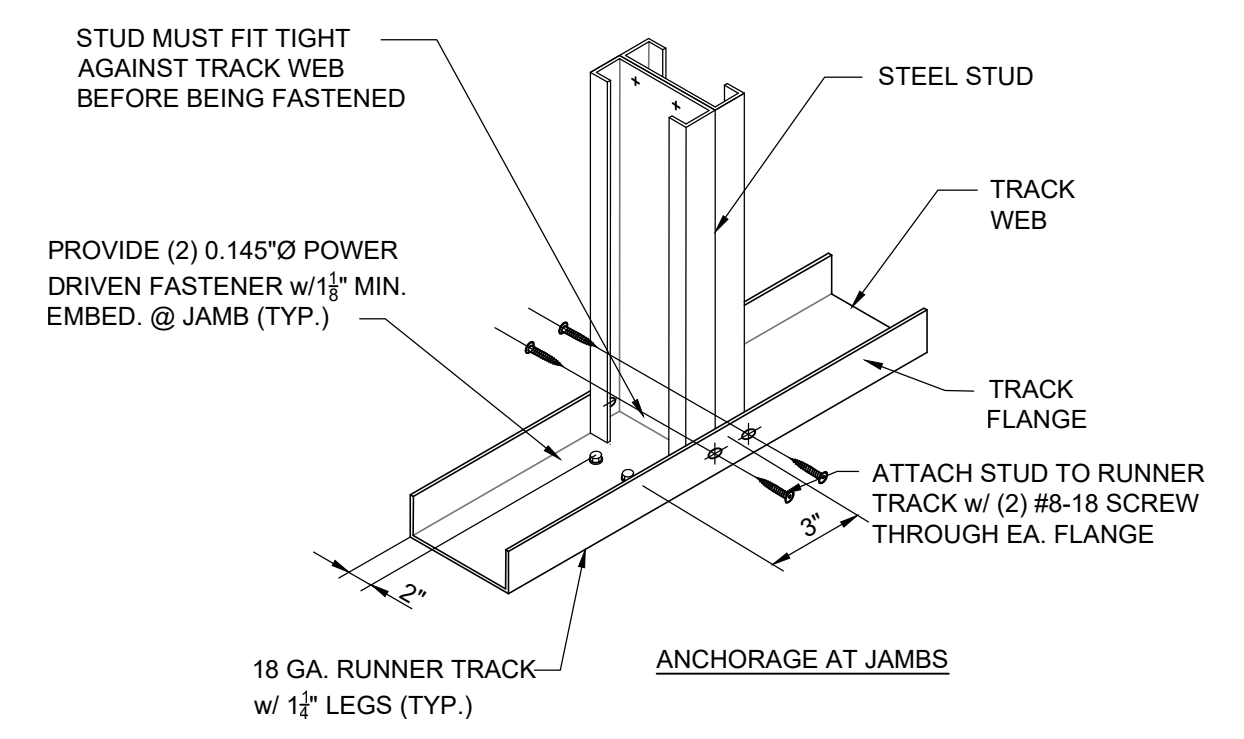
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DETAIL 1

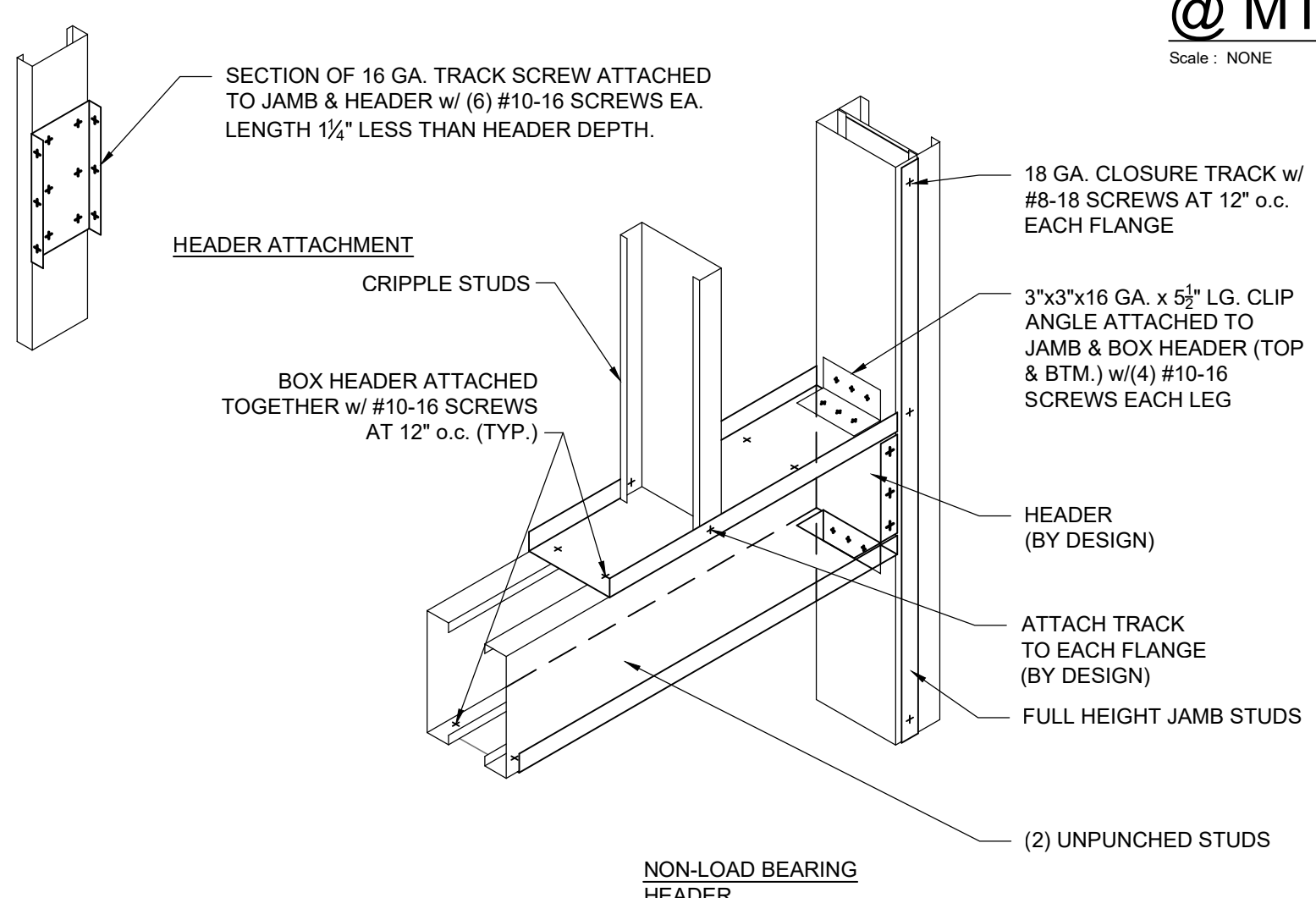
Scale: 3/4" = 1'-0"

LIGHT GAGE STEEL FRAMING DETAILS ON THIS SHEET ARE FOR DESIGN INTENT ONLY. ALL STRUCTURAL LIGHT GAGE STEEL FRAMING COMPONENTS AND SYSTEMS ARE TO BE DESIGNED BY A QUALIFIED SPECIALTY ENGINEER REGISTERED IN THE STATE OF THE PROJECT. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER-OF-RECORD PRIOR TO APPROVAL OF ANY LIGHT GAGE STEEL FRAMING SYSTEMS INCORPORATED INTO THIS PROJECT.



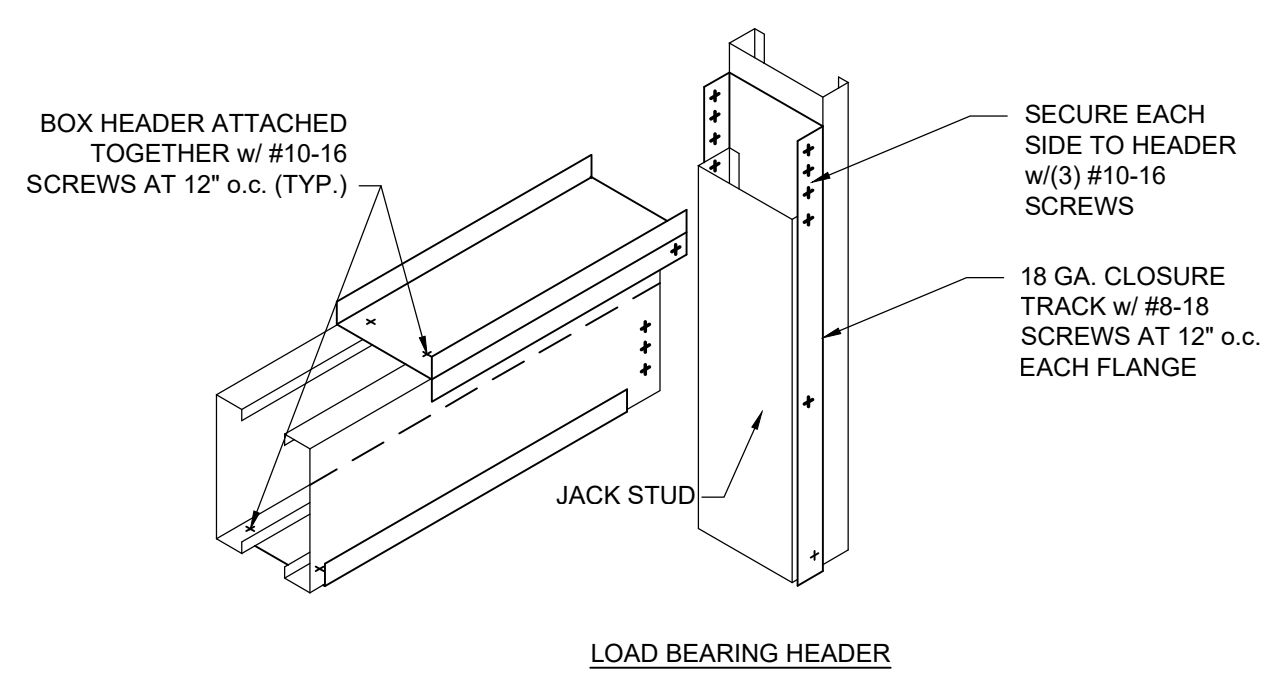
DETAIL 2

Scale: 3/4" = 1'-0"



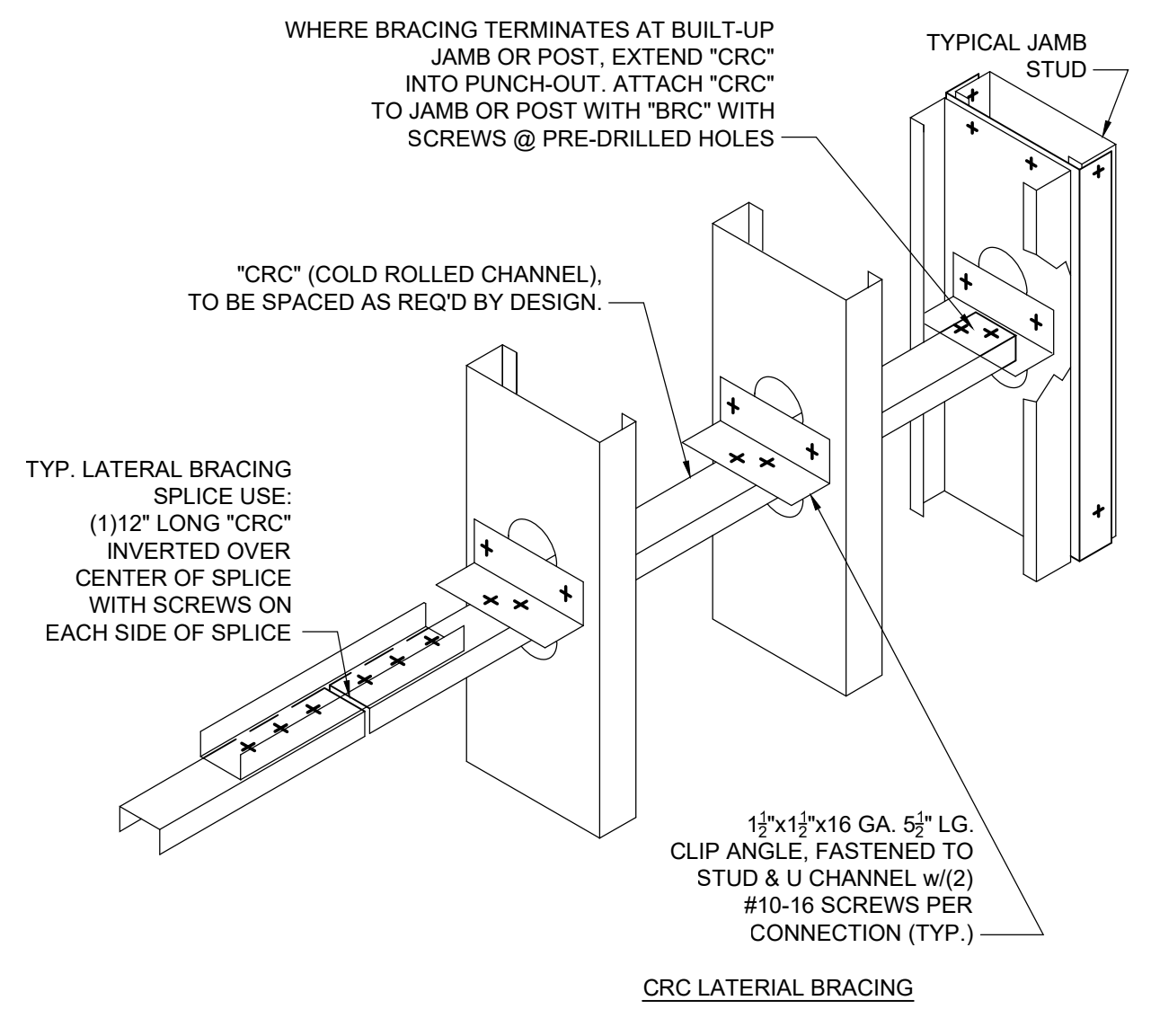
DETAIL 3

Scale: 3/4" = 1'-0"



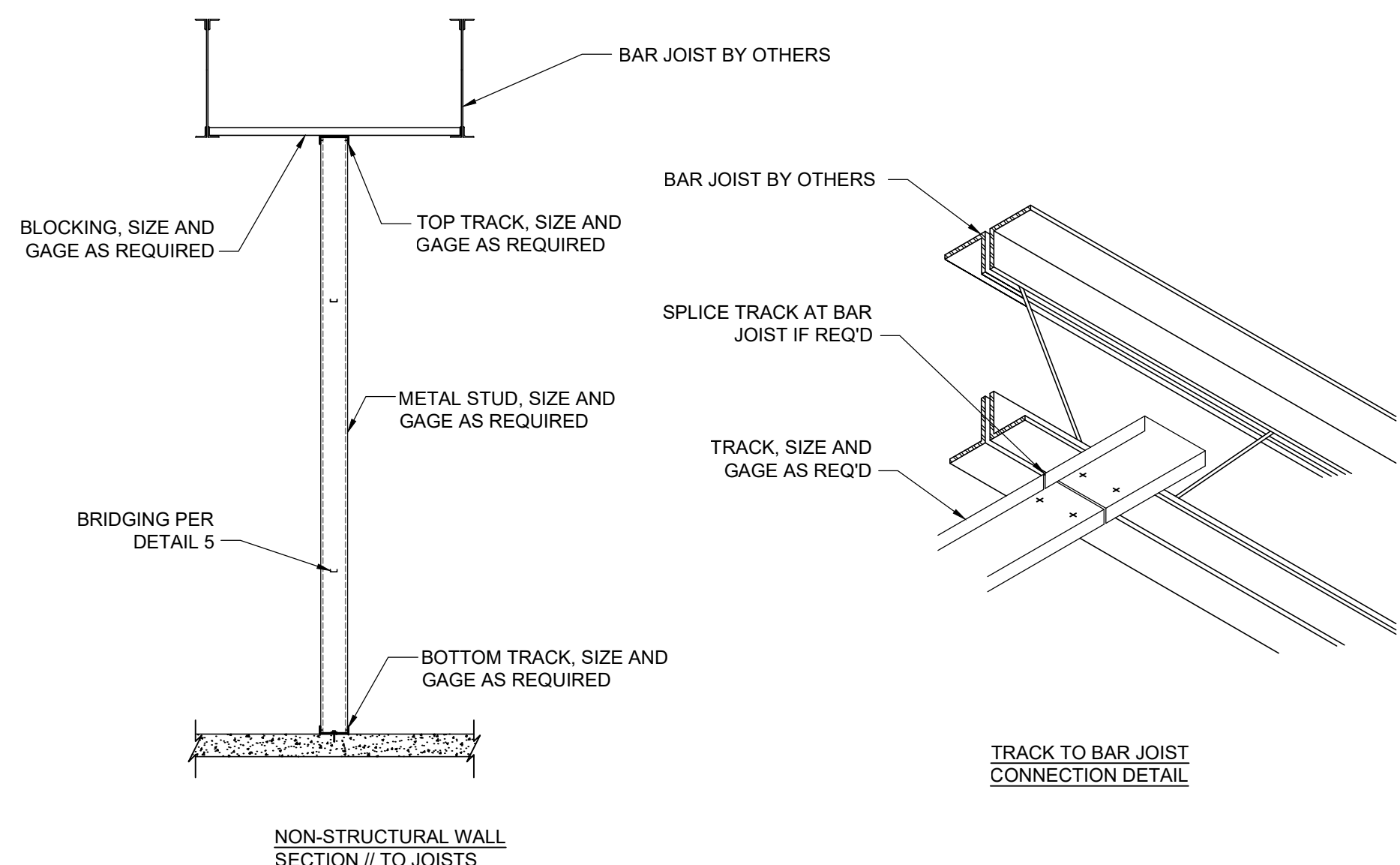
DETAIL 4

Scale: 3/4" = 1'-0"



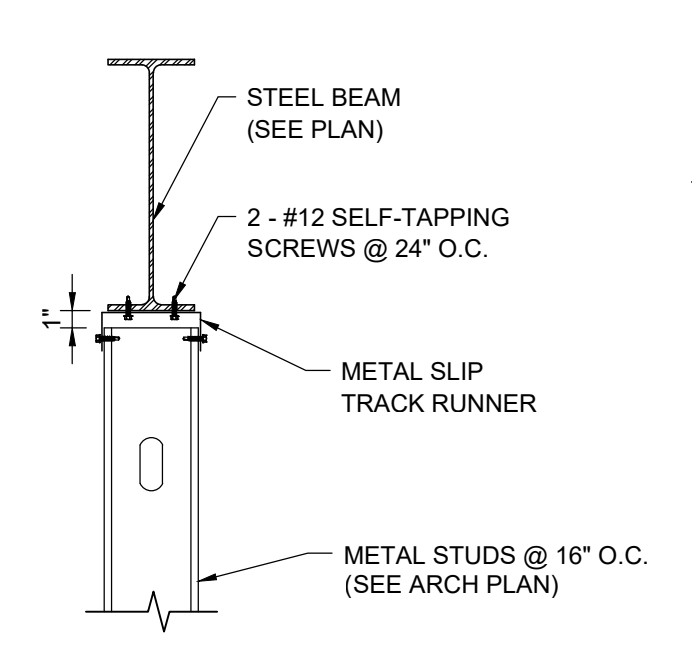
DETAIL 5

Scale: 3/4" = 1'-0"

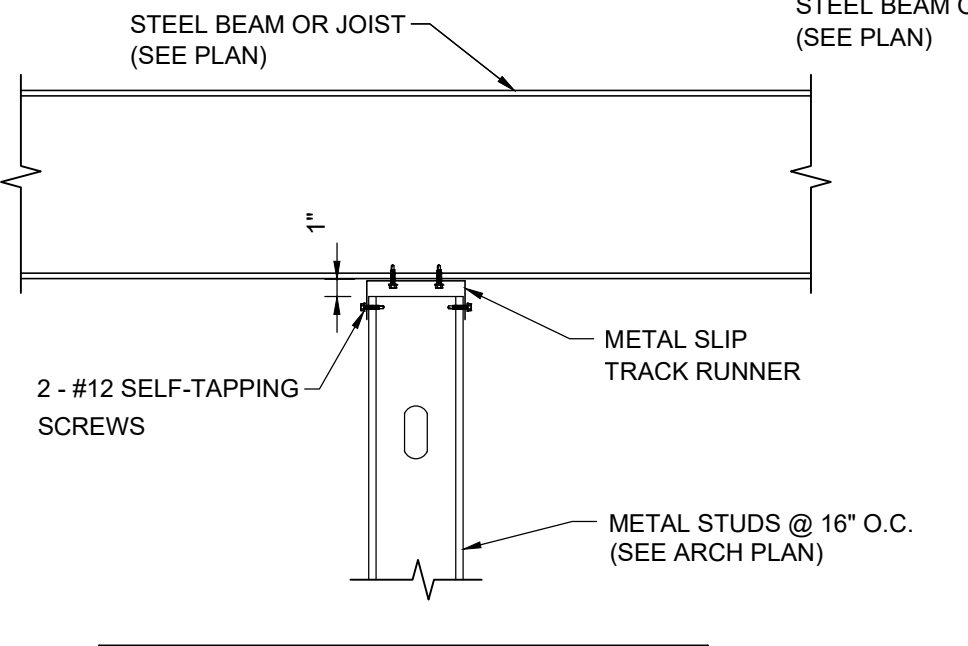


DETAIL 6

Scale: 3/4" = 1'-0"



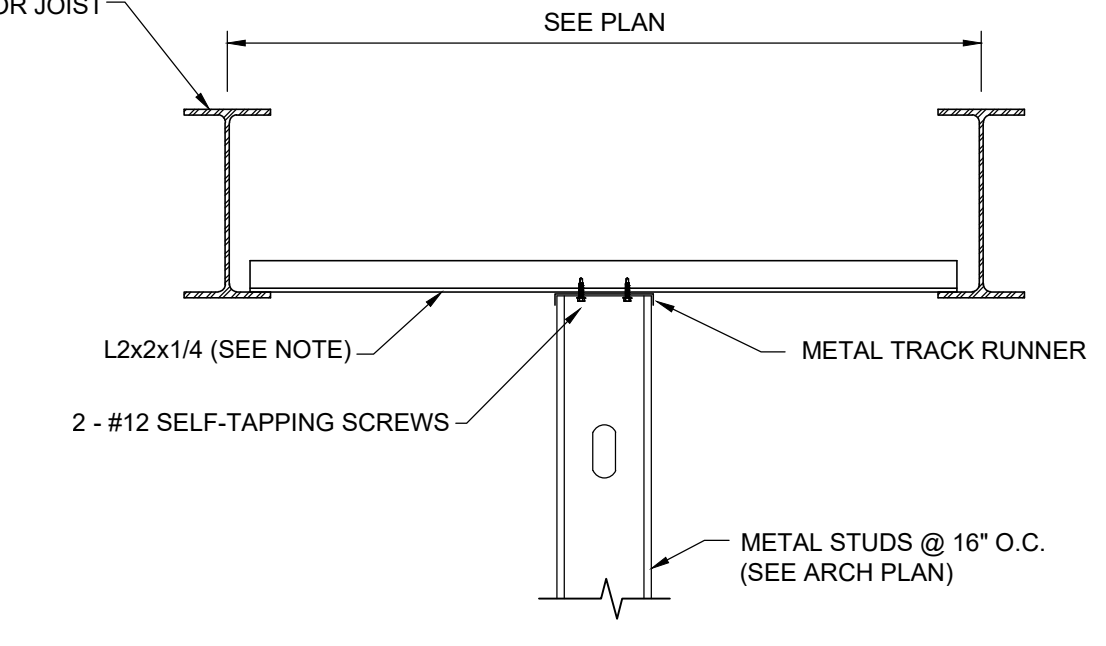
AT STEEL BEAM



PERPENDICULAR TO JOISTS (AT FLOOR/CEILING FRAMING)

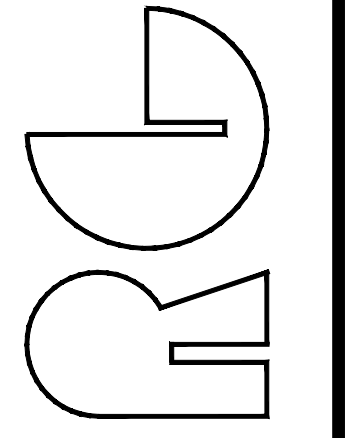
DETAIL 7

Scale: 3/4" = 1'-0"

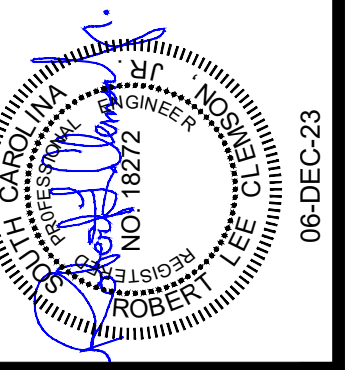


PARALLEL TO JOISTS

ROBERT GOODSON
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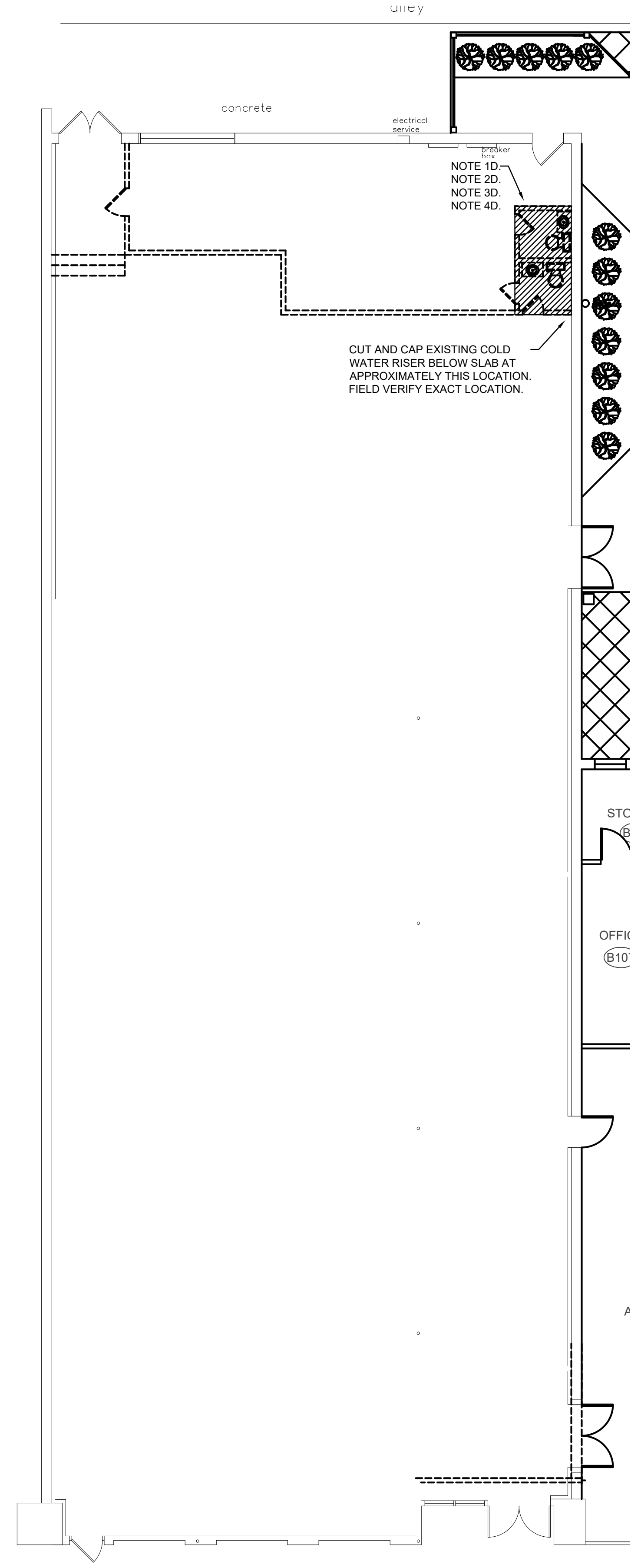
RENOVATIONS FOR
ONE CHURCH
 126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



DATE: 10/2023

SHEET
S6.0
 OF 10

ROBERT CLEMSON, P. E.
 STRUCTURAL CONSULTING ENGINEER
 500 S. Parliament Circle
 Florence, South Carolina 29501
 (843) 229-1557
 Robert.Clemson@Outlook.com



NOTE 1D.
NOTE 2D.
NOTE 3D.
NOTE 4D.

CUT AND CAP EXISTING COLD WATER RISER BELOW SLAB AT APPROXIMATELY THIS LOCATION. FIELD VERIFY EXACT LOCATION.

PLUMBING DEMOLITION NOTES:

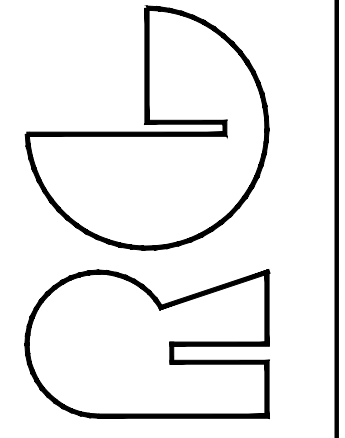
NOTE - 1D CUT AND CAP EXISTING WATER SUPPLY PIPING ABOVE CEILING, BELOW FLOOR, OR IN WALL AS FIELD CONDITIONS DICTATE. DISPOSITION OF EXISTING PIPING, NO LONGER IN USE, PER OWNERS REQUEST. VERIFY EXACT SIZE AND LOCATION IN FIELD.

NOTE - 2D CUT AND CAP EXISTING WASTE PIPING BELOW FLOOR OR IN WALL AS FIELD CONDITIONS DICTATE. DISPOSITION OF EXISTING PIPING, NO LONGER IN USE, PER OWNERS REQUEST. VERIFY EXACT SIZE AND LOCATION IN FIELD.

NOTE - 5D CUT AND CAP EXISTING VENT PIPING IN WALL OR ABOVE CEILING AS FIELD CONDITIONS DICTATE. DISPOSITION OF EXISTING PIPING, NO LONGER IN USE, PER OWNERS REQUEST. VERIFY EXACT SIZE AND LOCATION IN FIELD.

NOTE - 7D REMOVE EXISTING FIXTURES. DISPOSITION PER OWNERS REQUEST. VERIFY EXACT TYPE AND LOCATION IN FIELD.

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RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



MECA
Mechanical Engineering Consulting Associates, Inc.
2330 Main Street
Columbia, South Carolina 29201
Phone: (803) 765-9421
www.mecainc.com

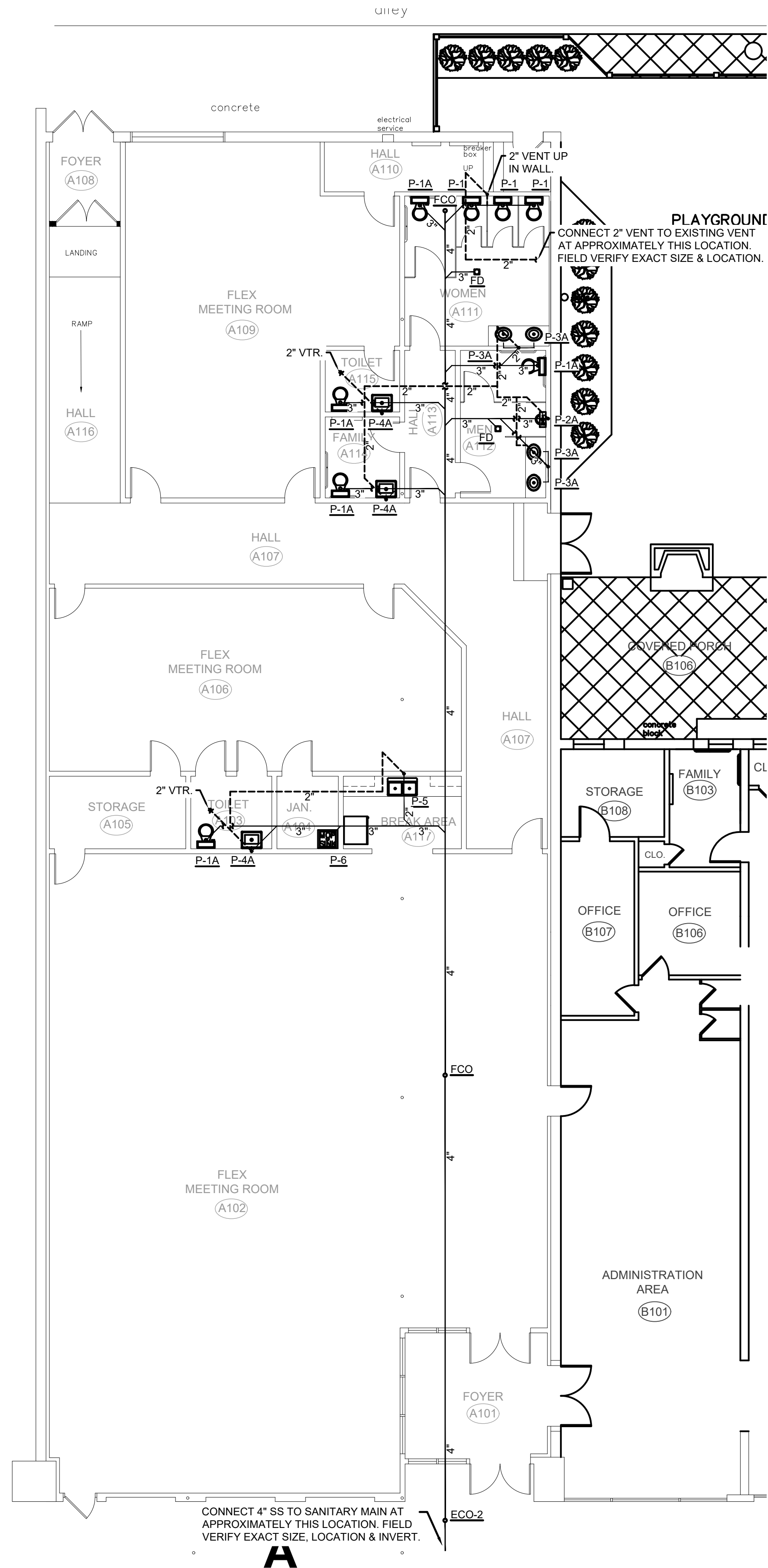
Designed: HKB
Approved: PPC
Project #: 23197
Plot Date: 12/19/2023

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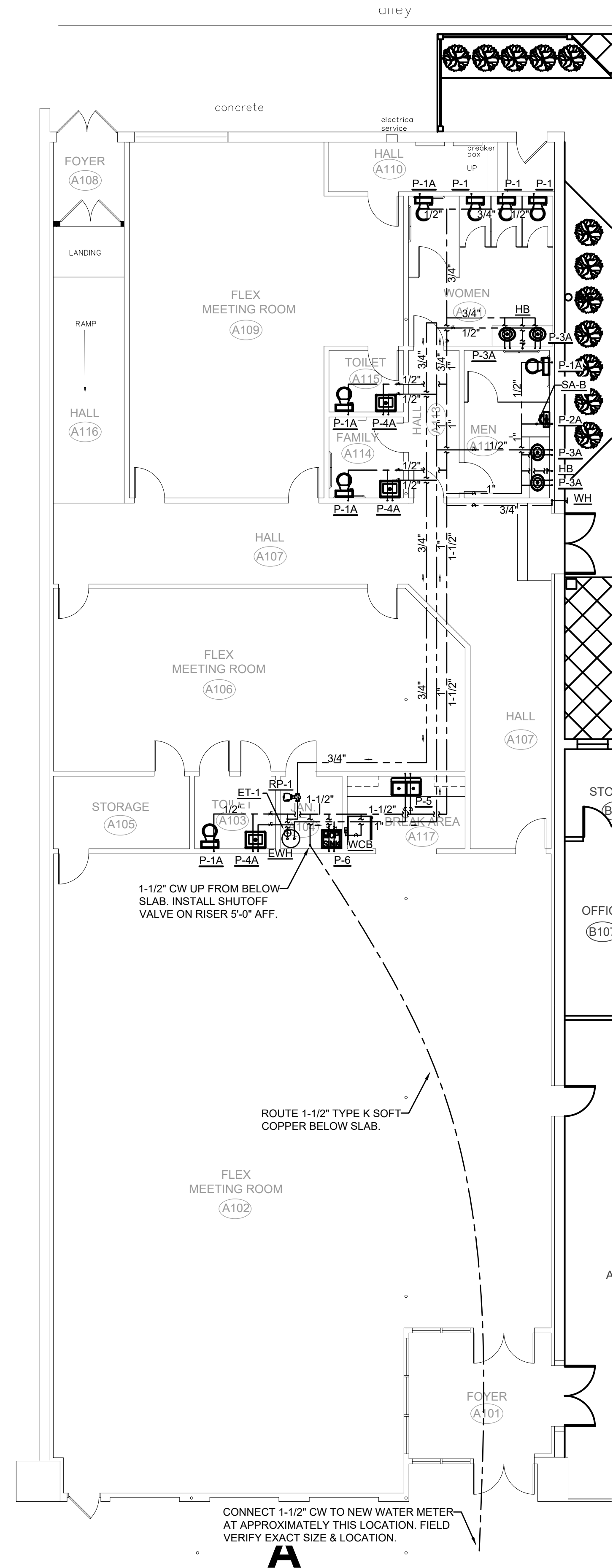
BUILDING A PLUMBING PLAN - DEMO
SCALE: 1/8"=1'-0"

DATE: 12/2023

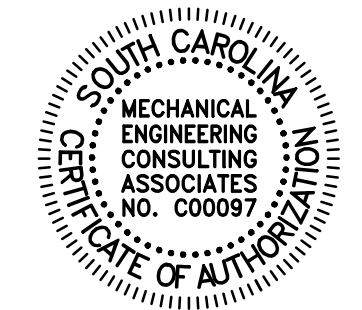
SHEET
P1
OF **3**



BUILDING A PLUMBING PLAN - WASTE/VENT
SCALE: 1/8"=1'-0"



BUILDING A PLUMBING PLAN - WATER SUPPLY
SCALE: 1/8"=1'-0"



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FOR PERMITTING

RENOVATIONS FOR
ONE CHURCH

126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.

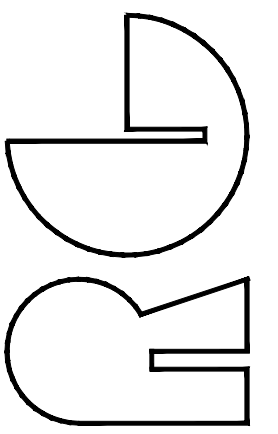
DATE: 12/2023

SHEET

P2

OF 3

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GENERAL PLUMBING NOTES

DO NOT SCALE DRAWINGS. ROUGH FROM ARCHITECTURAL AND/OR EQUIPMENT MANUFACTURERS DRAWINGS AND ROUGH IN SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND PLACEMENT OF FIXTURES.

DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

ALL HORIZONTAL SANITARY SEWER, WASTE AND DRAIN PIPING SHOWN ON DRAWINGS IS RUN BELOW FLOOR UNLESS OTHERWISE NOTED ON DRAWINGS.

ALL WATER, SERVICE AND ROOF DRAIN PIPING SHOWN ON DRAWINGS IS RUN ABOVE CEILING UNLESS OTHERWISE NOTED ON DRAWINGS.

HOSE BIBBS AND/OR WALL HYDRANTS SHALL BE LOCATED 18" ABOVE FINISHED FLOOR LEVEL OR GRADE.

ALL VALVES INSTALLED ABOVE CEILINGS SHALL BE EASILY ACCESSIBLE. WHERE VALVES ARE INSTALLED ABOVE GYPSUM BOARD CEILINGS, PLUMBING CONTRACTOR SHALL PROVIDE ACCESS DOOR(S); MINIMUM 16"x16", TO ALLOW EASY ACCESS.

PLUMBING CONTRACTOR SHALL VERIFY ELECTRICAL VOLTAGES WITH ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING SHOP DRAWING AND ORDERING EQUIPMENT.

PLUMBING CONTRACTOR SHALL VERIFY ALL RATED WALL ASSEMBLIES, FLOORS AND ROOF ASSEMBLIES WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR AND SHALL PROVIDE APPROPRIATE PENETRATION ASSEMBLY FOR ALL PENETRATIONS OF WALLS, FLOORS AND ROOFS WHETHER IDENTIFIED ON DRAWINGS OR NOT.

ALL FLOOR PENETRATIONS ARE TO BE SEALED WATER TIGHT. WHERE PENETRATIONS OCCUR IN RATED FLOOR ASSEMBLIES, SEALING MUST CARRY A CLASS 1 "W" RATING.

PLUMBING CONTRACTOR SHALL VERIFY LOCATION, ELEVATIONS AND INVERTS OF ALL EXISTING SANITARY AND STORM SEWER SYSTEMS IDENTIFIED ON THESE DRAWINGS AND SHALL ADVISE ENGINEER OF ANY DISCREPANCIES WHICH EXISTS.

PLUMBING CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH OTHER DISCIPLINES TO ELIMINATE CONFLICTS. FAILURE TO DO SO WILL RESULT IN PLUMBING CONTRACTOR BEARING EXPENSE OF CHANGE ORDERS WHICH MAY RESULT.

PLUMBING CONTRACTOR SHALL REVIEW ALL PLUMBING AND ARCHITECTURAL DRAWINGS PRIOR TO BID DATE AND VERIFY NUMBER AND LOCATION OF ALL EQUIPMENT AND FIXTURES. ANY EQUIPMENT AND/OR FIXTURES INDICATED ON ARCHITECTURAL DRAWINGS AND NOT SHOWN ON PLUMBING DRAWINGS SHALL BE INCLUDED IN CONTRACTORS BID AND SCOPE OF WORK AND SHALL INCLUDE ALL MATERIALS, PIPING AND LABOR REQUIRED TO CONNECT EQUIPMENT AND/OR FIXTURES TO NEAREST SERVICE OF ADEQUATE SIZE. EQUIPMENT AND/OR FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL. PLUMBING CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW BUILDING WITH STRUCTURAL DRAWINGS TO AVOID CONFLICTS.

ALL PIPING SHALL BE SUPPORTED FROM STRUCTURAL STEEL AND/OR CONCRETE BEAMS AND STRUCTURE. PIPING SUPPORTED FROM ROOF AND/OR FLOOR METAL DECKING WILL NOT BE ALLOWED.

ALL PLUMBING WORK IS TO BE INSTALLED IN ACCORDANCE WITH THE 2021 EDITION OF THE INTERNATIONAL PLUMBING CODE AND IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS.

SLOPE ON ALL SEWER, WASTE AND DRAIN PIPING SHALL COMPLY WITH ALL STATE AND LOCAL CODES AND SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE 2021 INTERNATIONAL PLUMBING CODE.

GENERAL AND PLUMBING CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO SUBMITTING TO ENGINEER/ARCHITECT. PROVIDE GENERAL & PLUMBING "APPROVED" OR "APPROVED AS NOTED" STAMPS ON SUBMITTAL PRIOR TO SUBMITTING FOR ENGINEER'S/ARCHITECT'S REVIEW.

ALL WATER PIPING INSTALLED ABOVE GRADE OUTSIDE OF THE BUILDING HEATED ENVELOPE IS TO BE HEAT TRACED AND INSULATED. LOCATIONS INCLUDE BUT ARE NOT LIMITED TO BUILDING EXTERIOR, ATTICS, CRAWLSPACES, AND GARAGES. HEAT TRACE IS TO BE SELF REGULATING RAYCHEM XL TRACE; 5 WATTS/FT. OR EQUAL. INSULATION IS TO BE 1" FIBERGLASS. WHERE INSULATION IS EXPOSED TO PRECIPITATION, ALUMINIUM JACKET IS TO BE PROVIDED.

INSULATE ALL WATER PIPE, HORIZONTAL ROOF DRAIN PIPING, AND SANITARY SEWER PIPING WHICH RECEIVES CONDENSATE FROM MECHANICAL UNITS AND OR DISCHARGE FROM ICE MACHINES/MAKERS, ABOVE GRADE WITH 1" THICK FIBERGLASS PIPE INSULATION, 3 LB. DENSITY, GASTON-BARON SNAP-ON, OWENS CORNING FIBERGLASS, OR KNAUF WITH STANDARD VAPOR BARRIER JACKET. SEAL ALL SEAMS AND JOINTS WITH WATERPROOF MASTIC. IN EXPOSED INTERIOR AREAS, SUCH AS MECHANICAL ROOMS, COVER INSULATION WITH 10 OZ. CANVAS JACKET SECURED AND TREATED WITH AEROSOL ADHESIVE AND INSTALL PVC JACKETS AT ALL ELBOWS, JOINTS ETC. COVER INSULATION IN EXTERIOR EXPOSED AREAS WITH .016" CORRUGATED ALUMINIUM JACKET. SECURE JACKET WITH BANDS AND SEAL WATER TIGHT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

PLUMBING CONTRACTOR TO FLUSH, CLEAN, AND SCOPE ALL BELOW SLAB WASTE PIPING WITH CAMERA PRIOR TO SLAB BEING POURED. CAMERA SCOPE SHALL TAKE PLACE IMMEDIATELY AFTER WATER HAS BEEN DRAINED FROM THE PIPE AND AFTER BACKFILL AND COMPACTION. AT THE CONTRACTOR'S OPTION, AN ADDITIONAL SCOPE MAY BE PERFORMED PRIOR TO BACKFILL. PROVIDE TAPE TO ENGINEER FOR REVIEW. IF AREAS OF BELOW SLAB PIPING ARE DETERMINED TO BE UNSATISFACTORY, THE CONTRACTOR SHALL REMOVE AND REPAIR PIPING TO A SATISFACTORY CONDITION. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL CAMERA BELOW SLAB PIPE, AND PROVIDE A TAPE OF FINAL CONDITIONS WITH DESCRIPTION OF PIPE LOCATION TO THE OWNER.

NOTE:

VERIFY VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

EXPANSION TANK SCHEDULE

SYMBOL	ET-1	
MANUFACTURER	XYLEM	
MODEL NUMBER	PT-5	
TANK VOLUME (GALLONS)	2	
ACCEPTANCE VOLUME (GAL)	0.9	
TANK DIAMETER (INCHES)	8	
TANK HEIGHT (INCHES)	13	
FILL PRESSURE (PSIG)	60	
OPERATING WEIGHT (LBS)	12.5	
SERVICE	DOM. HOT WATER	
MAXIMUM PRESSURE (PSIG)	150	
REMARKS:		

RECIRCULATION PUMP SCHEDULE

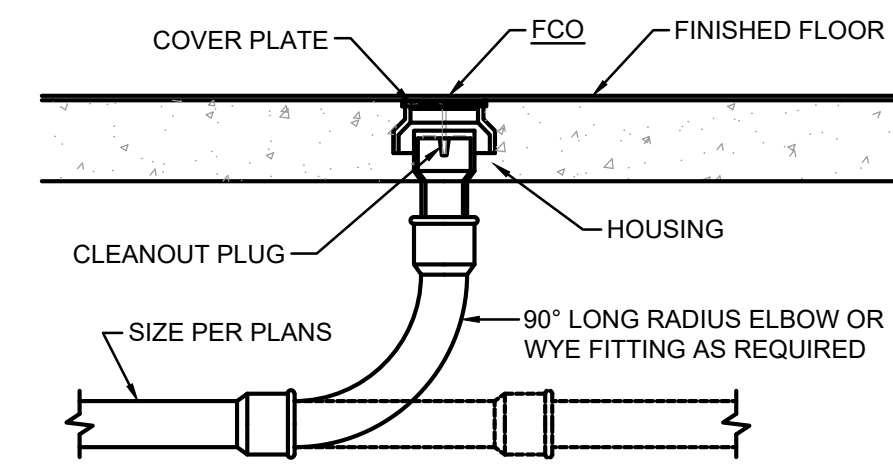
SYMBOL	RP-1	
MANUFACTURER	BELL & GOSSETT	
MODEL NUMBER	PL-36B	
FLOW (G.P.M.)	4.5	
TOTAL DYNAMIC HEAD (FT.)	15	
MOTOR	HORSEPOWER	1/6
	R.P.M.	3300
	VOLTAGE	115-160
IMPELLOR DIAMETER (IN.)	N/A	
SUCTION SIZE (IN.)	3/4"	
DISCHARGE SIZE (IN.)	3/4"	
REMARKS:		
	PLUMBING CONTRACTOR TO VERIFY VOLTAGE WITH THE ELECTRICAL CONTRACTOR PRIOR TO RELEASING EQUIPMENT FROM THE MANUFACTURER.	

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	CONNECTION			REMARKS
		CW	HW	WASTE	
P-1	WATER CLOSET	1/2"		3"	FLOOR MOUNTED TANK TYPE
P-1A	WATER CLOSET - ADA	1/2"		3"	FLOOR MOUNTED TANK TYPE
P-2A	URINAL - ADA	3/4"		2"	WALL MOUNTED FLUSH VALVE
P-3A	LAVATORY - ADA	1/2"	1/2"	1-1/2"	CIRCULAR w/ MV-1
P-4A	LAVATORY - ADA	1/2"	1/2"	1-1/2"	WALL MOUNTED w/ MV-1
P-5	BREAKROOM SINK	1/2"	1/2"	1-1/2"	DOUBLE BOWL DROP-IN w/ MV-1
P-6	MOP BASIN	1/2"	1/2"	3"	FLOOR MOUNTED CORNER TYPE
FCO	FLOOR CLEANOUT				REMARKS SIZE PER FLOOR PLANS
FD	FLOOR DRAIN				REMARKS SIZE PER FLOOR PLANS
ECO-2	EXTERIOR CLEANOUT				REMARKS SIZE PER FLOOR PLANS
EWC	ELECTRIC WATER COOLER	1/2"		1-1/2"	HI-LO w/ BOTTLE FILLER
EWH	ELECTRIC WATER HEATER	1"	1"		40 GALLON 208/3/60 4.5KW
HB	HOSE BIBB	3/4"			
MV-1	POINT-OF-USE MIXING VALVE	1/2"	1/2"		SYMMONS 8210CK; SET AT 110 °F
WCB	WATER CONNECTION BOX	1/2"			
WH	WALL HYDRANT	3/4"			WOODFORD MODEL B67 FREEZELESS

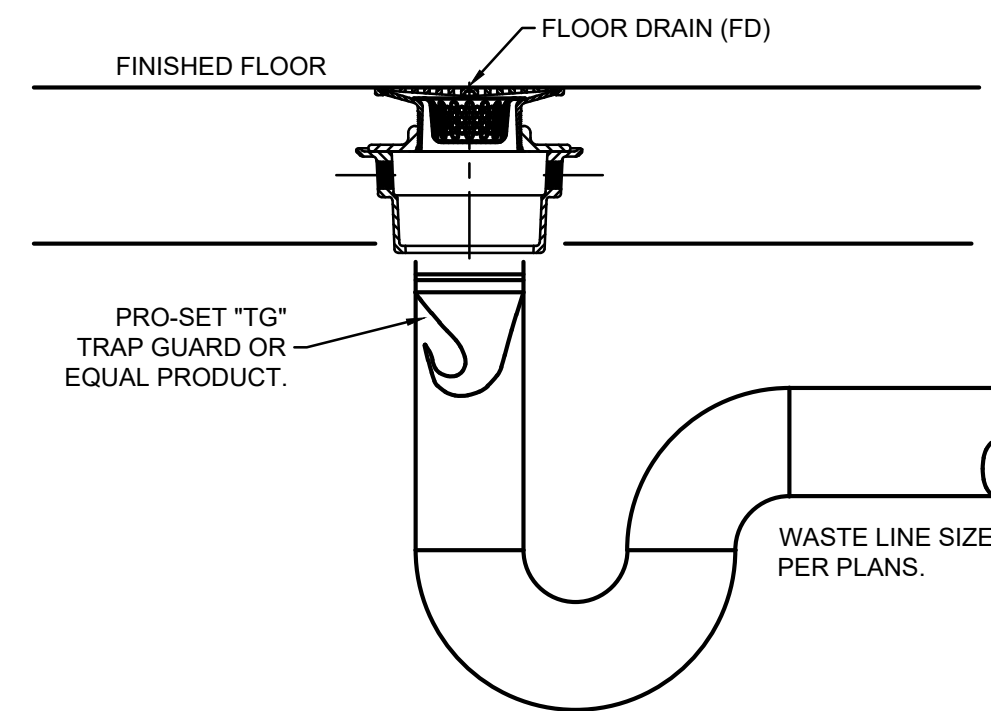
SHOCK ABSORBER SCHEDULE

SYMBOL	SA-AA	SA-A	SA-B	SA-C	SA-D
MANUFACTURER	SIOUX CHIEF				
MODEL NUMBER	660	652-A	653-B	654-C	655-D
F.U. RATING	1 - 4	1 - 11	12 - 32	33 - 60	61 - 113
CONNECTION SIZE	1/2"	1/2"	3/4"	1"	1"



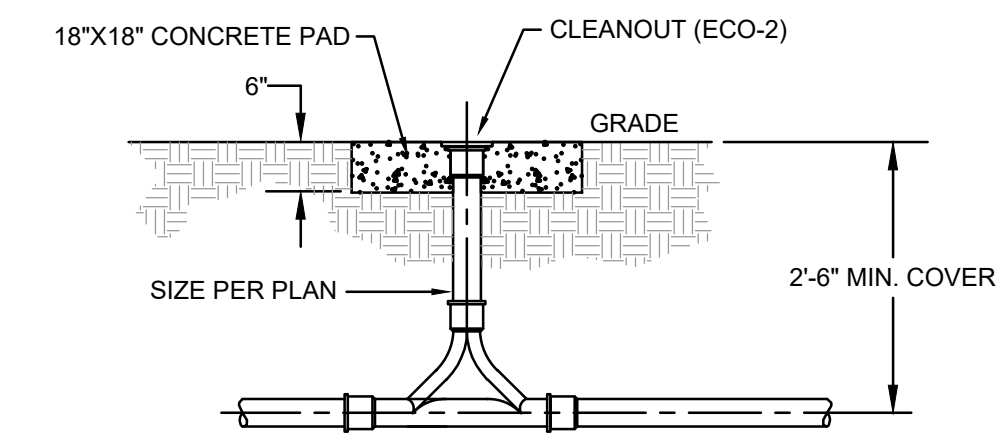
FLOOR CLEANOUT DETAIL

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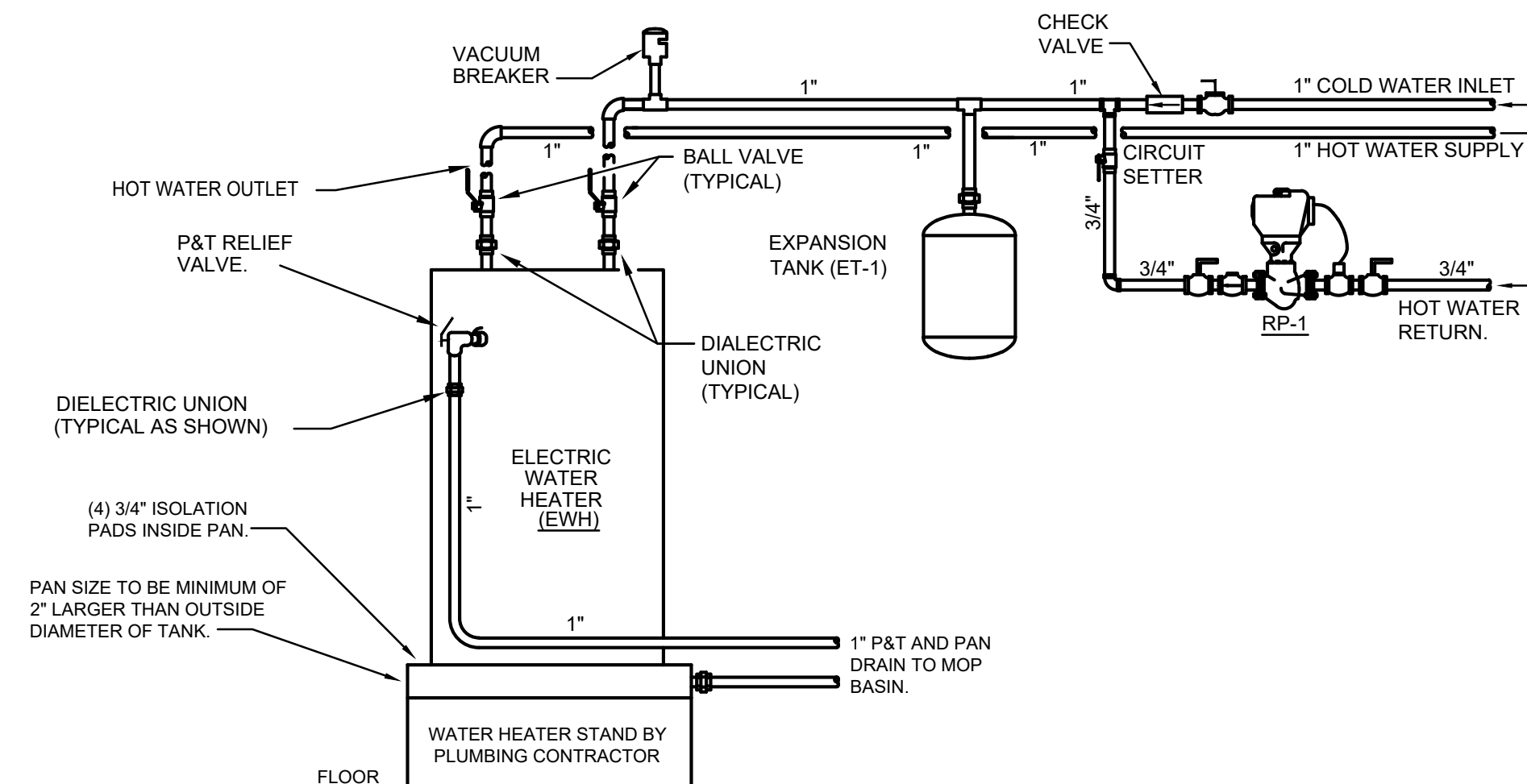
FLOOR DRAIN WITH TRAP GUARD

NO SCALE



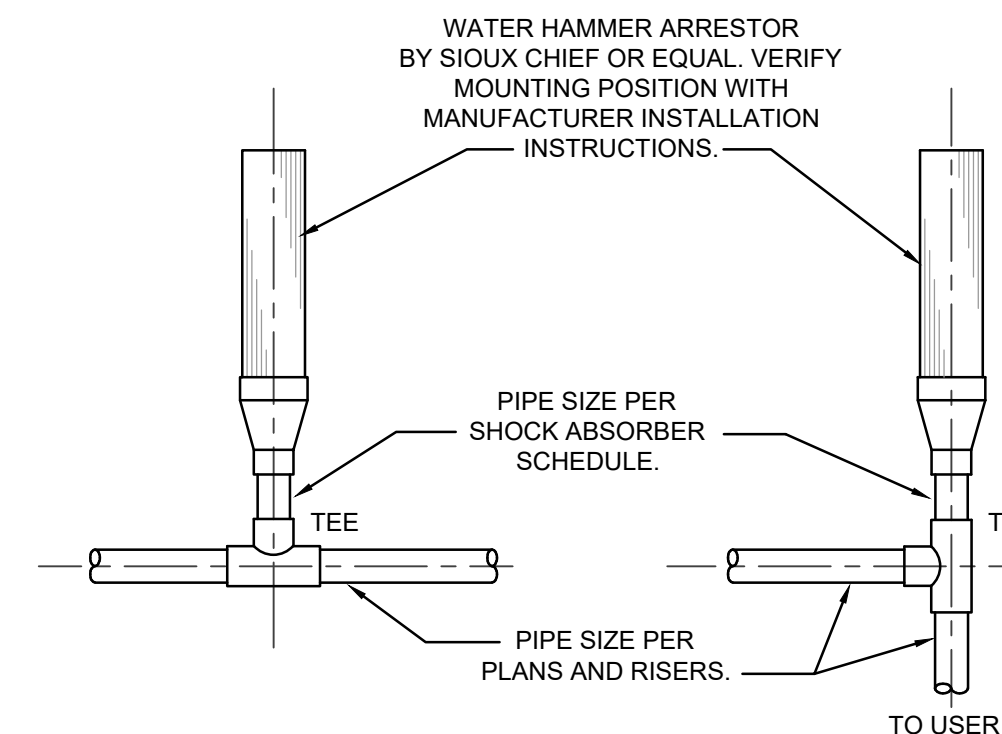
TWO WAY EXTERIOR CLEANOUT DETAIL

NO SCALE



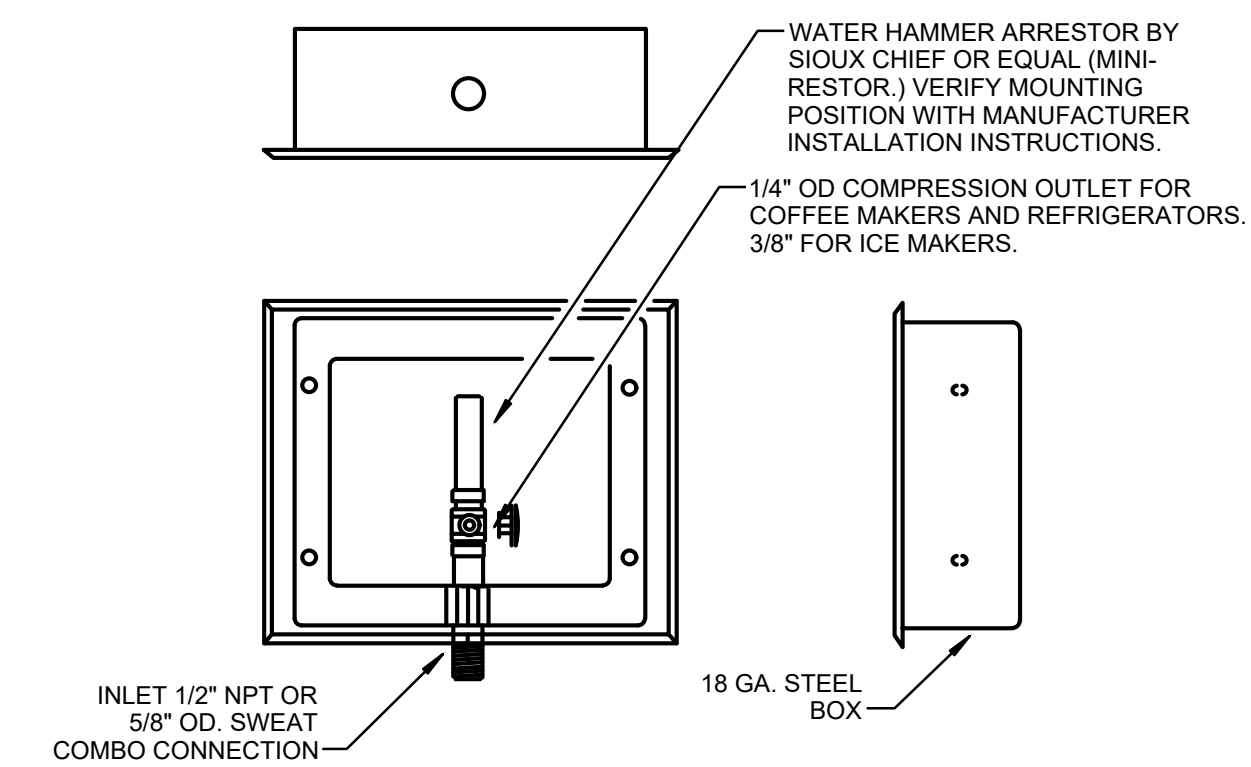
WATER HEATER DETAIL

NO SCALE



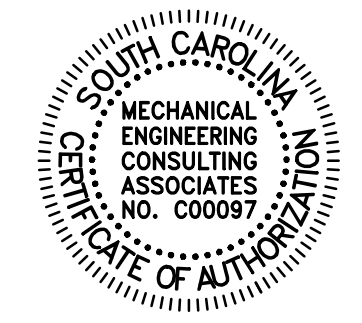
SHOCK ABSORBER DETAILS

NO SCALE



WATER CONNECTION (WCB) BOX DETAIL

NO SCALE



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RD

RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.

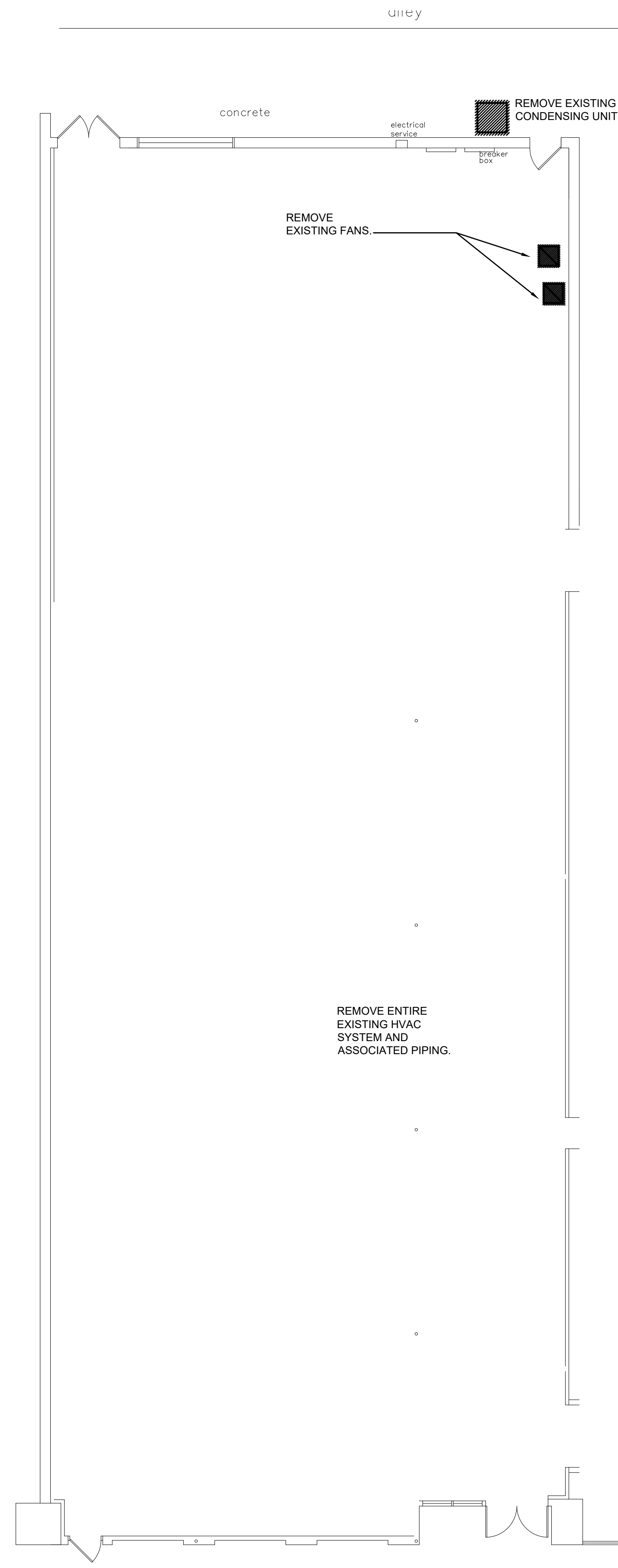
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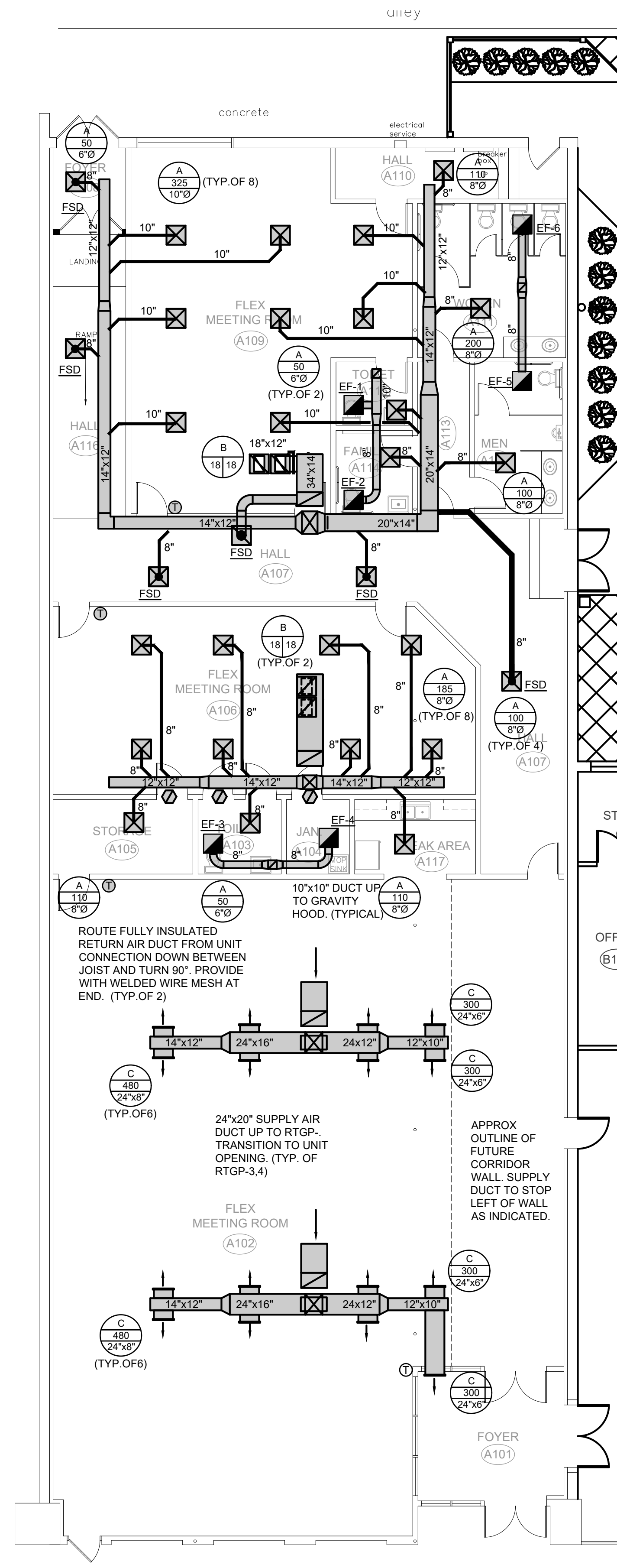
SHEET

P3

OF 3



BUILDING A MECHANICAL PLAN - DEMO
SCALE: 1/8"=1'-0"

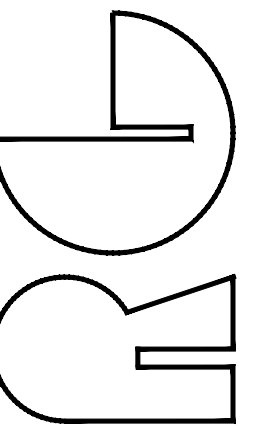


BUILDING A MECHANICAL PLAN - RENO
SCALE: 1/8"=1'-0"

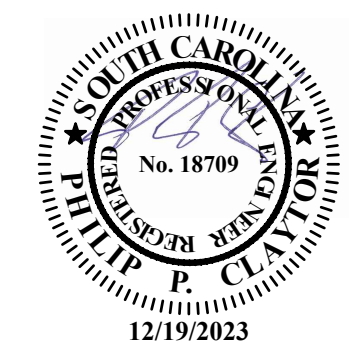
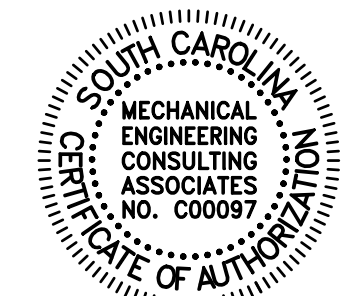
RENOVATION NOTES:

1. MECHANICAL CONTRACTOR TO VISIT AND SURVEY EXISTING CONDITIONS TO FAMILIARIZE THEMSELVES WITH DEMOLITION AND RENOVATION ASPECTS OF THE PROJECT, PRIOR TO SUBMITTING A BID.
2. COORDINATE NEW ROOFTOP LOCATIONS WITH EXISTING STRUCTURE. COORDINATE PENETRATIONS WITH EXISTING JOIST AND ALL DISCIPLINES PRIOR TO DUCT FABRICATION/ INSTALLATION. COORDINATE SERVICE CLEARANCES WITH EXISTING CONDITIONS.
3. CONTRACTOR TO MAINTAIN A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKE WITH GRAVITY HOODS.
4. SECURE ALL GAS PIPING AS SPECIFIED PER DETAILS.
5. ALL CONDENSATE ON ROOF TO BE COPPER. SECURE TO ROOF PER DETAILS
6. CONTRACTOR TO VERIFY ALL RATED WALLS.

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RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



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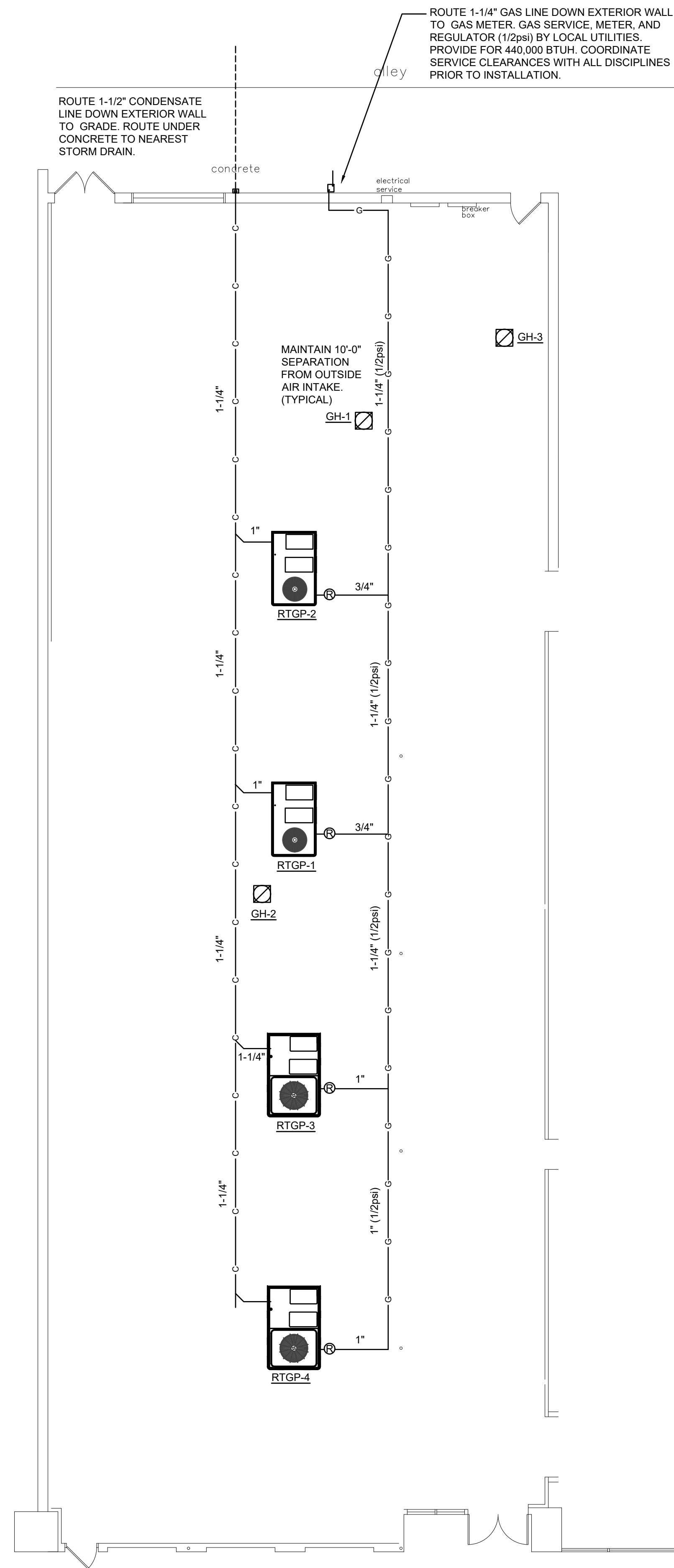
Designed: JAS
Approved: PPC
Project #: 23197
Plot Date: 12/19/2023

DATE: 12/2023

SHEET

M1

OF 5

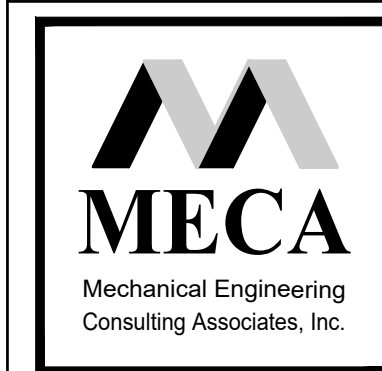
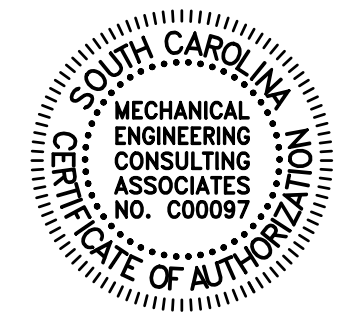


ROUTE 1-1/2" CONDENSATE LINE DOWN EXTERIOR WALL TO GRADE. ROUTE UNDER CONCRETE TO NEAREST STORM DRAIN.

ROUTE 1-1/4" GAS LINE DOWN EXTERIOR WALL TO GAS METER, GAS SERVICE, METER, AND REGULATOR (1/2psi) BY LOCAL UTILITIES. PROVIDE FOR 440,000 BTUH. COORDINATE SERVICE CLEARANCES WITH ALL DISCIPLINES PRIOR TO INSTALLATION.

A

BUILDING A MECHANICAL PLAN - GAS PIPING
SCALE: 1/8"=1'-0"



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Designed: JAS
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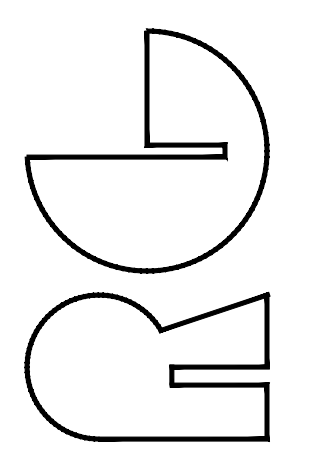
DATE: 12/2023

SHEET

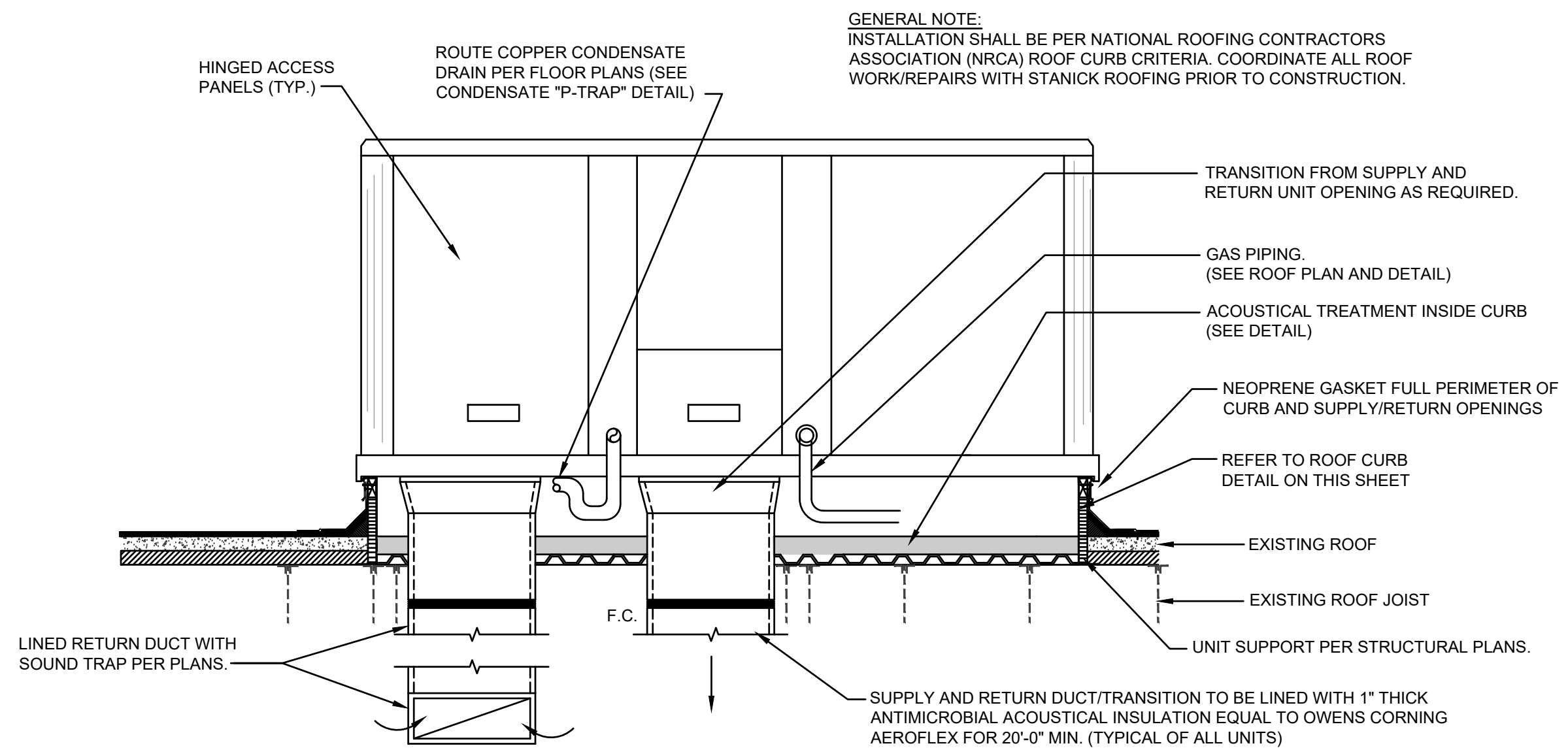
M1.1

OF **5**

RENOVATIONS FOR ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



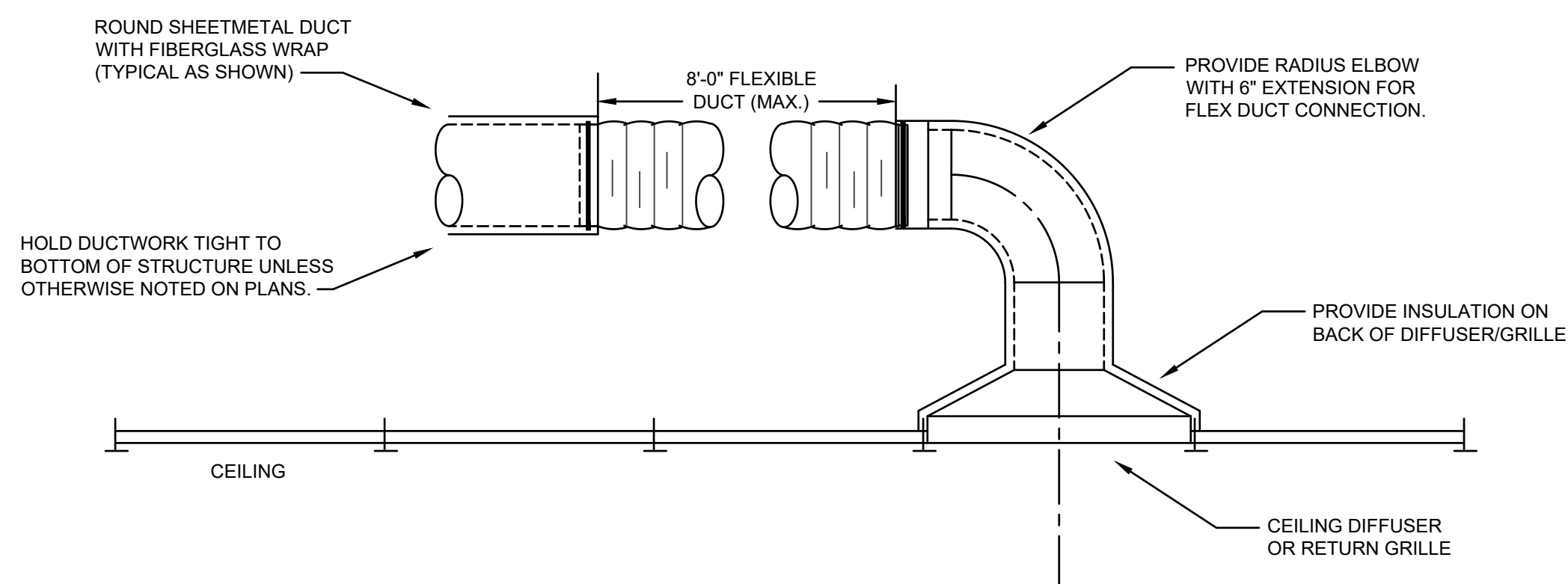
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ROOF TOP GAS PACK DETAIL

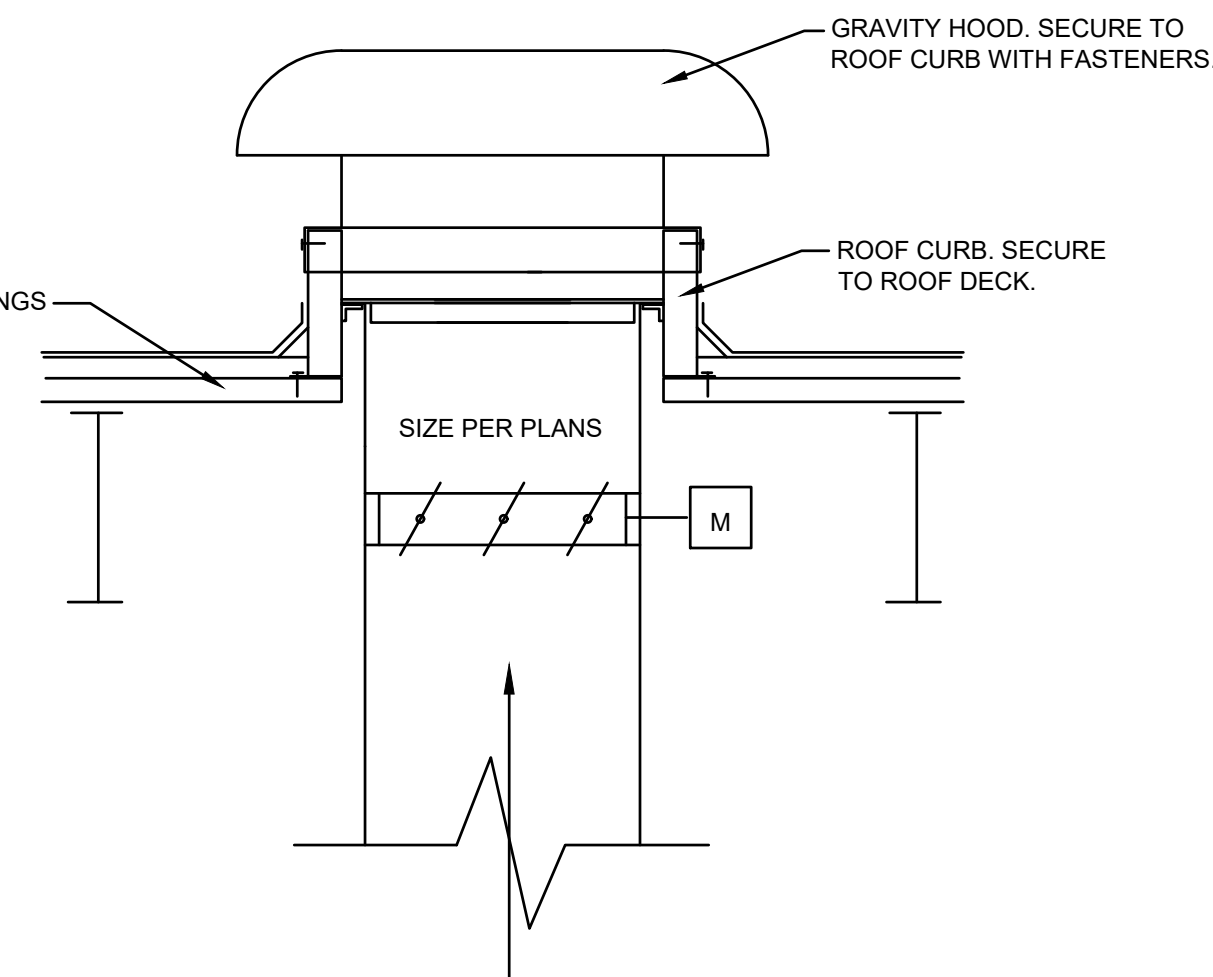
NO SCALE

GENERAL NOTES:
1) SUPPORT SHEETMETAL AND FLEXIBLE DUCTWORK PER SMACNA STANDARDS.
2) OVERLAP FLEXIBLE DUCTWORK MINIMUM 4" OVER SHEETMETAL DUCTWORK. SECURE LINER WITH ZIP TIE. STAPLE GLASS FABRIC TAPE TO DUCT WRAP AND MASTIC IN ORDER TO SEAL FLEXIBLE DUCTWORK.



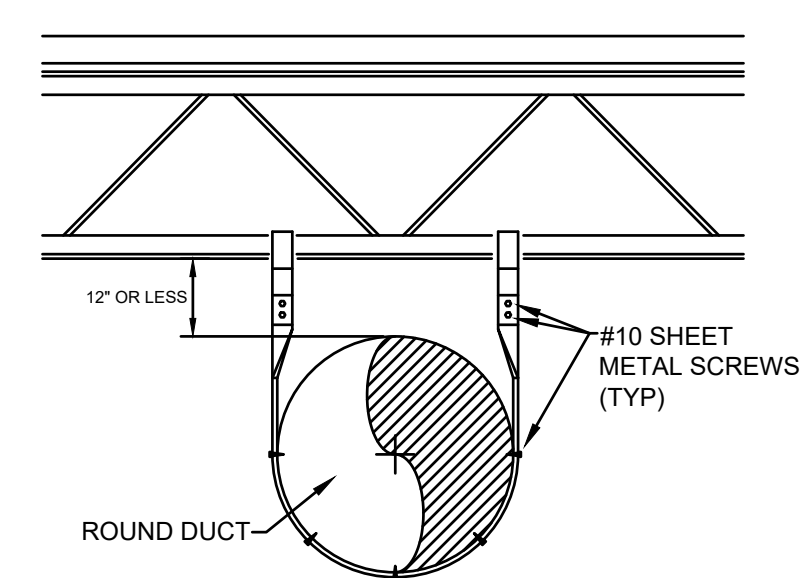
TYPICAL ROUND DUCT RUNOUT DETAIL

NO SCALE



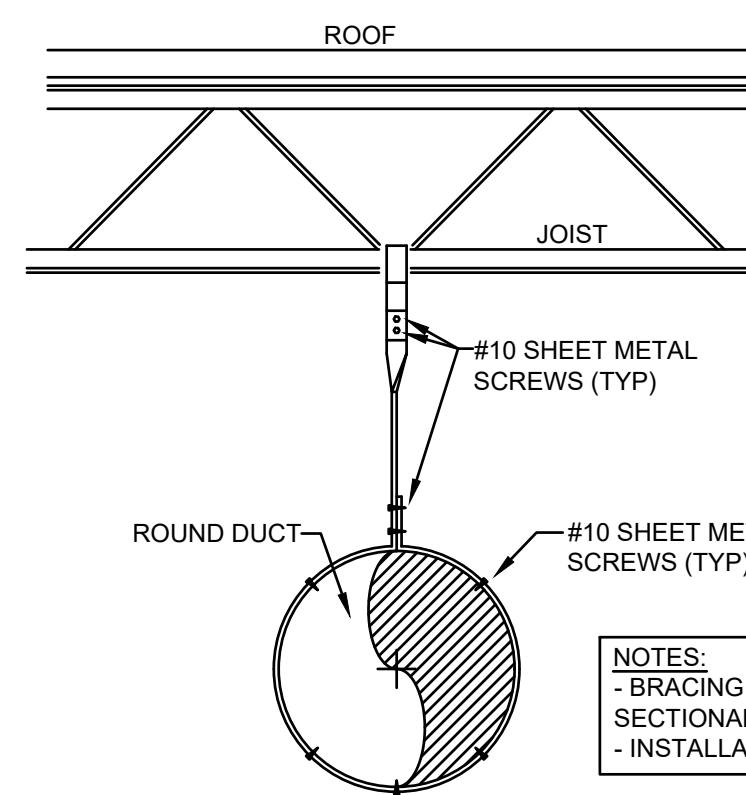
GRAVITY HOOD DETAIL

NO SCALE



DUCT SUPPORT DETAIL

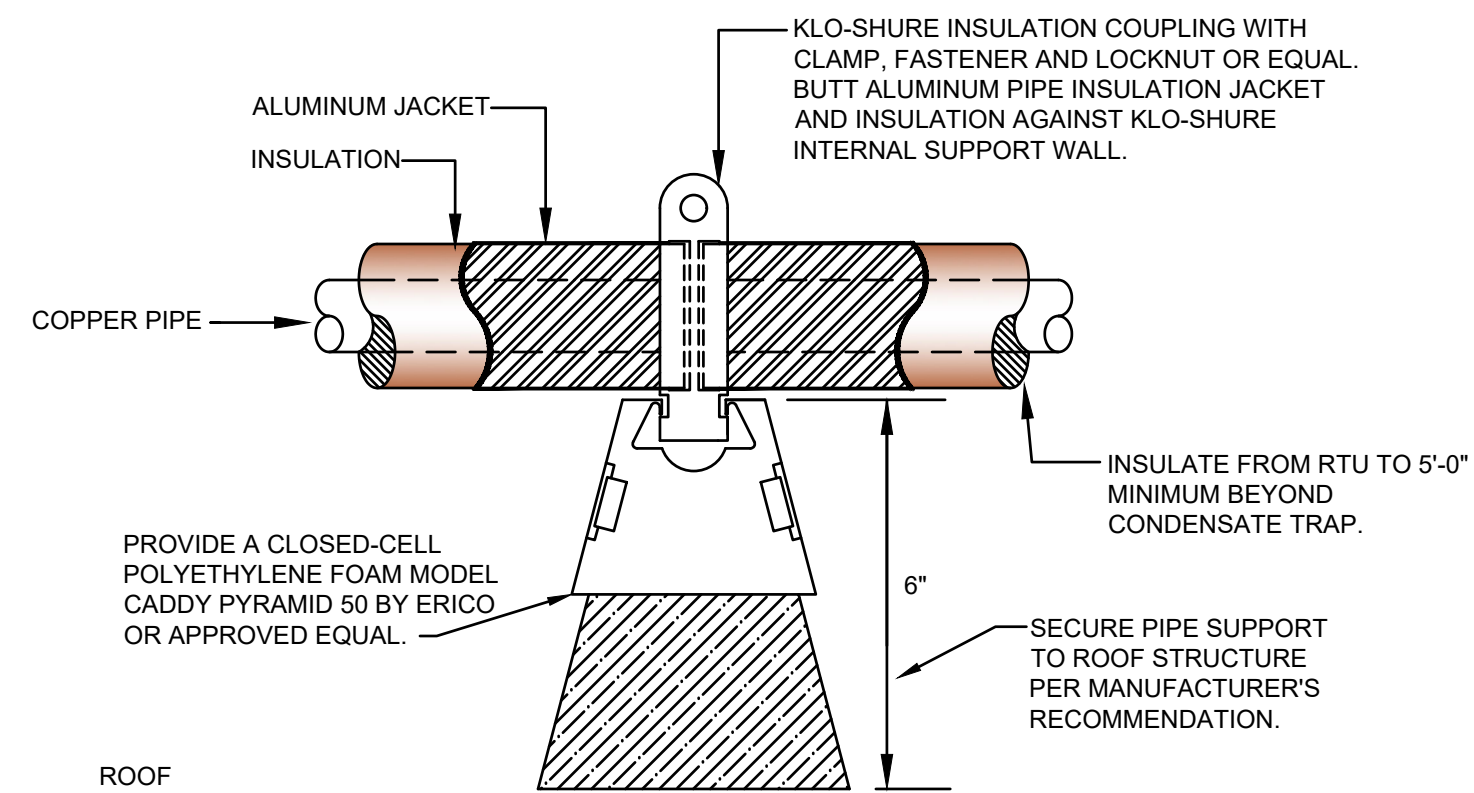
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DUCT SUPPORT DETAIL

NO SCALE

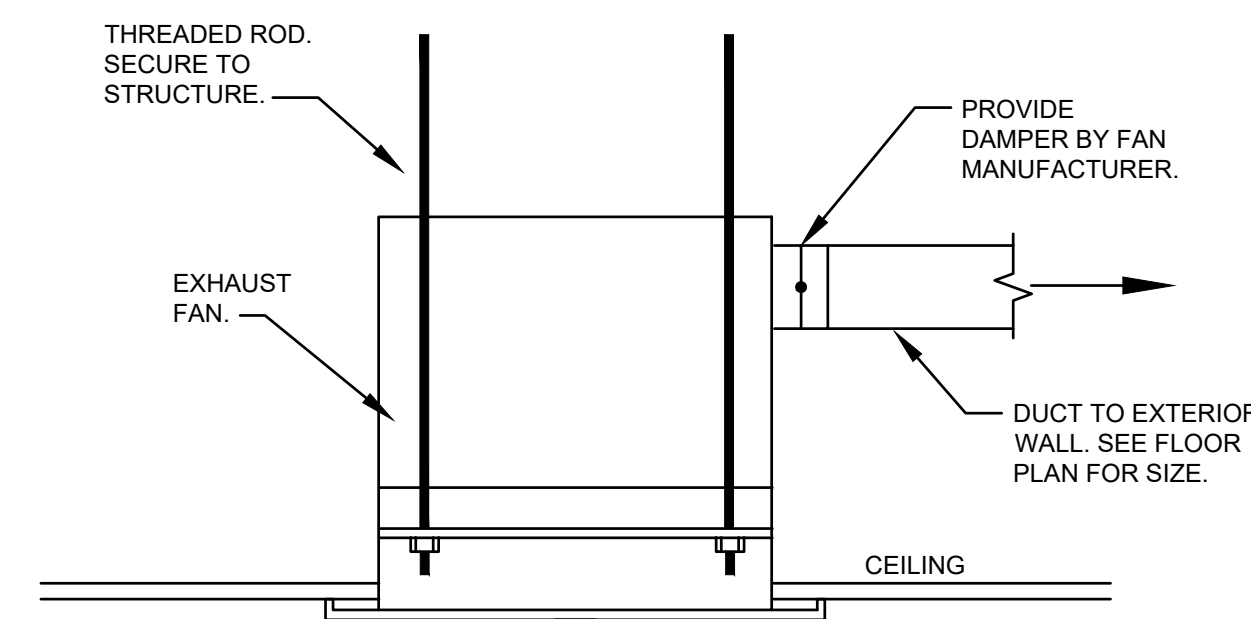
NOTES:
- BRACING REQUIRED ON DUCTS WITH A CROSS SECTIONAL AREA GREATER THAN OR EQUAL TO 6 SQ. FT.
- INSTALLATION PER SMACNA GUIDELINES.



CONDENSATE SUPPORT DETAIL

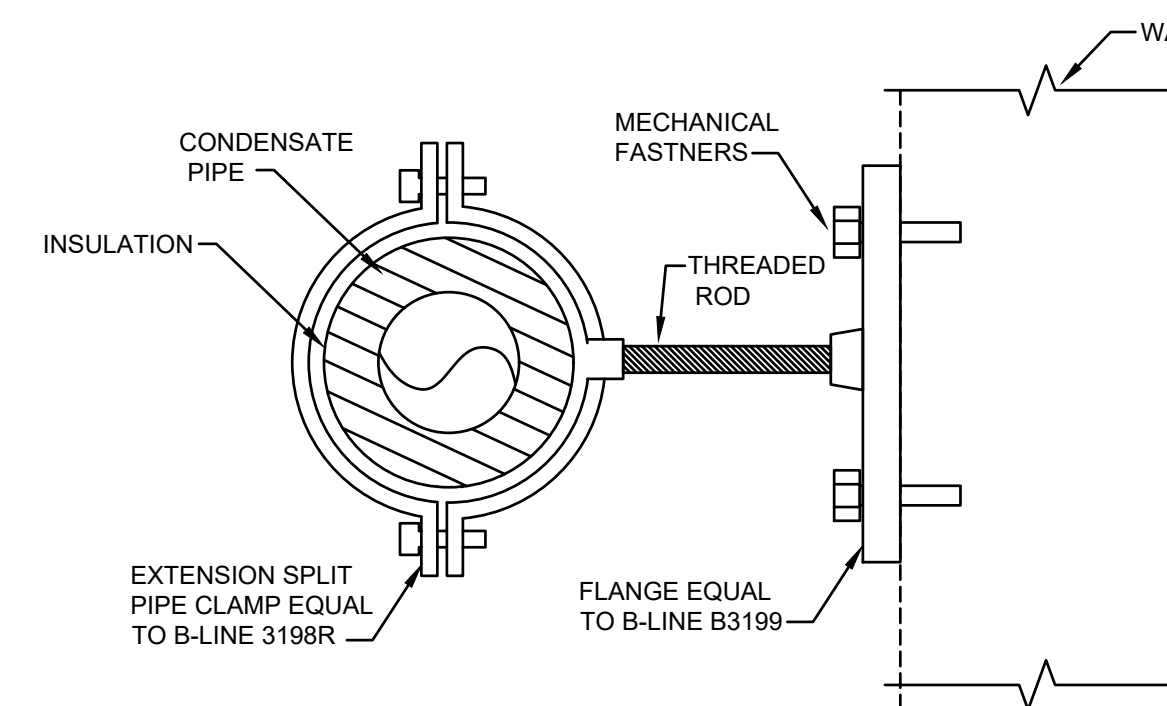
NO SCALE

GENERAL NOTE:
- PROVIDE PROPER SLOPE
- PROVIDE SPACING BASED ON ANSI/MSS-SP-69 TABLE 3 (MANUFACTURER'S STANDARDIZATION SOCIETY) BETWEEN SUPPORTS TO AVOID PIPE SAGGING.



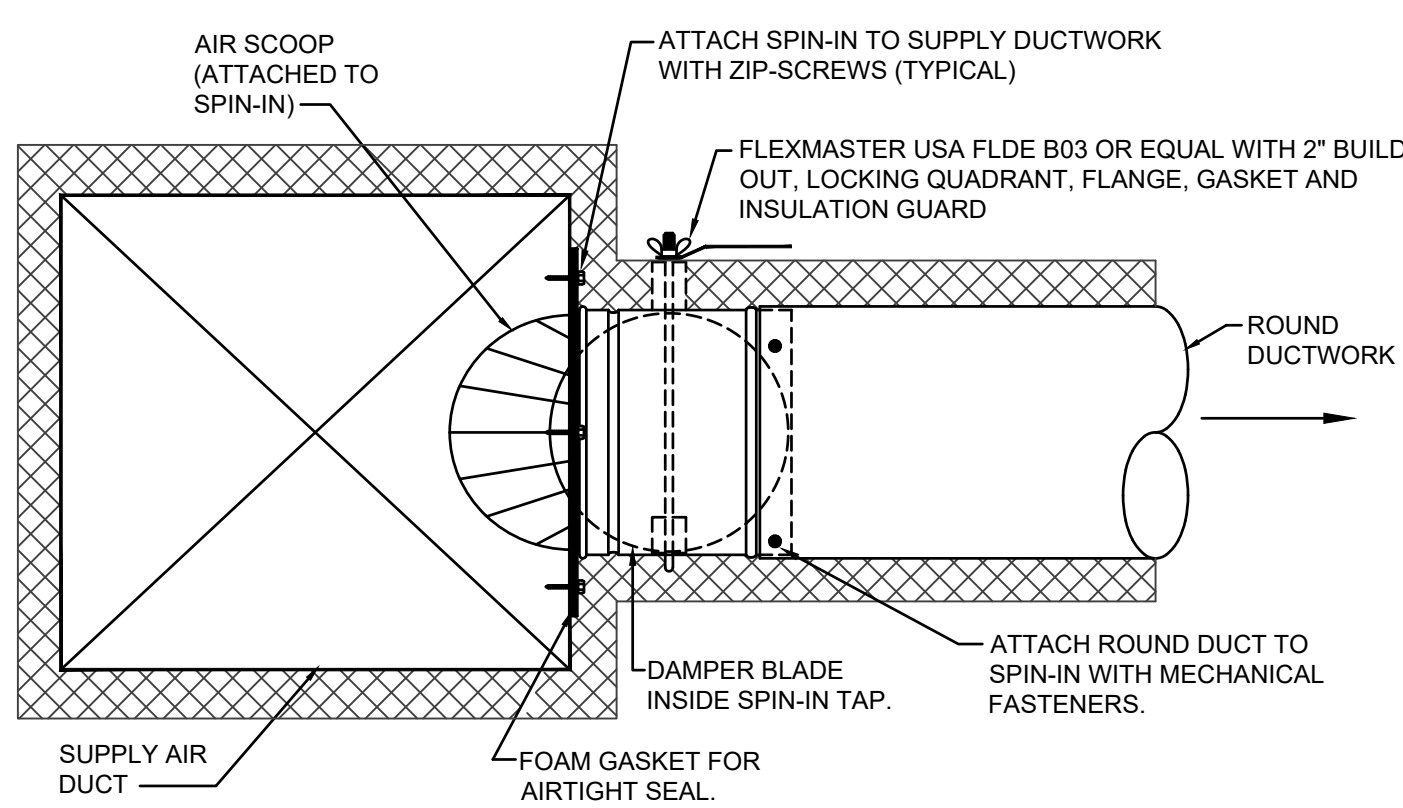
EXHAUST FAN DETAIL

NO SCALE



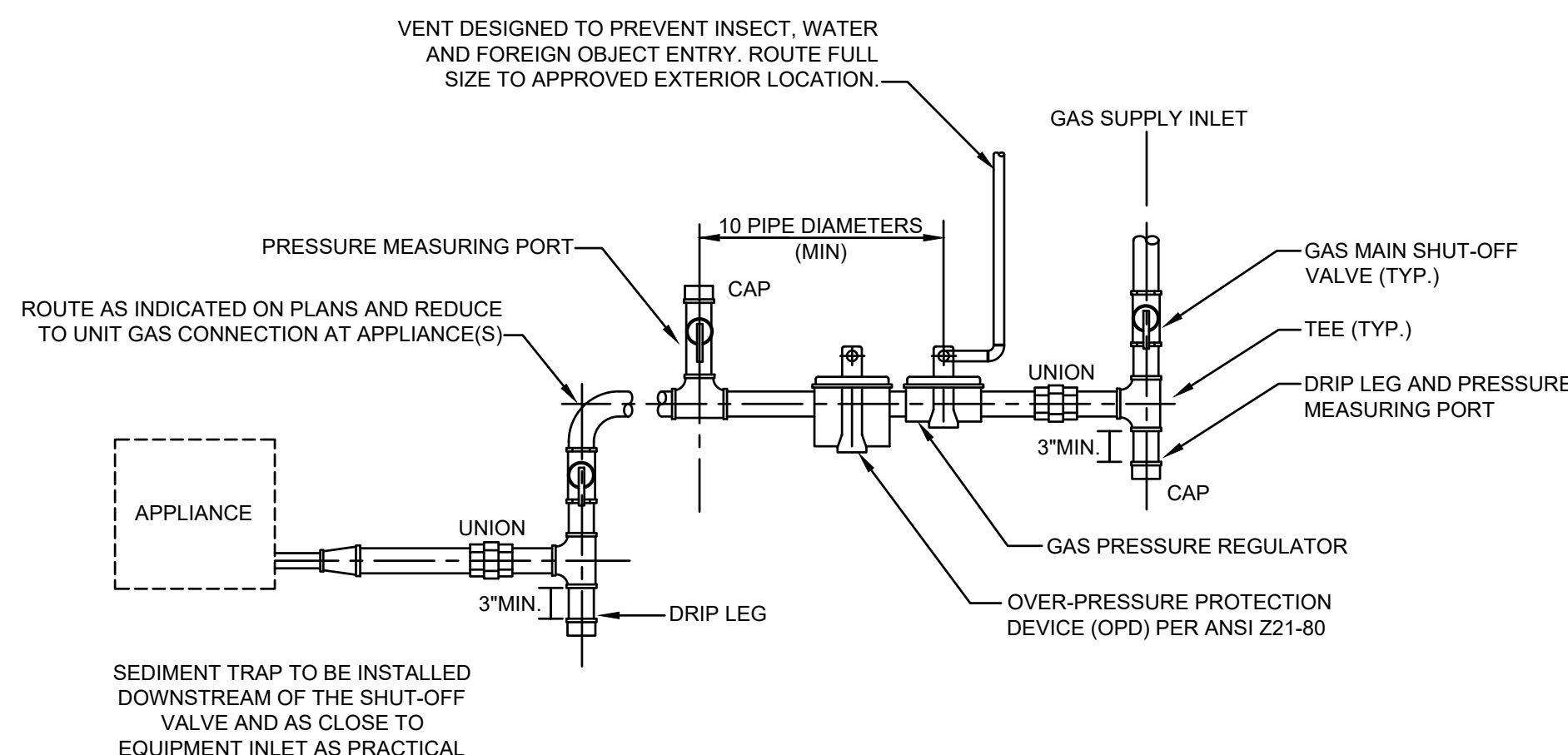
PIPE SUPPORT STAND OFF DETAIL (WALL)

NO SCALE



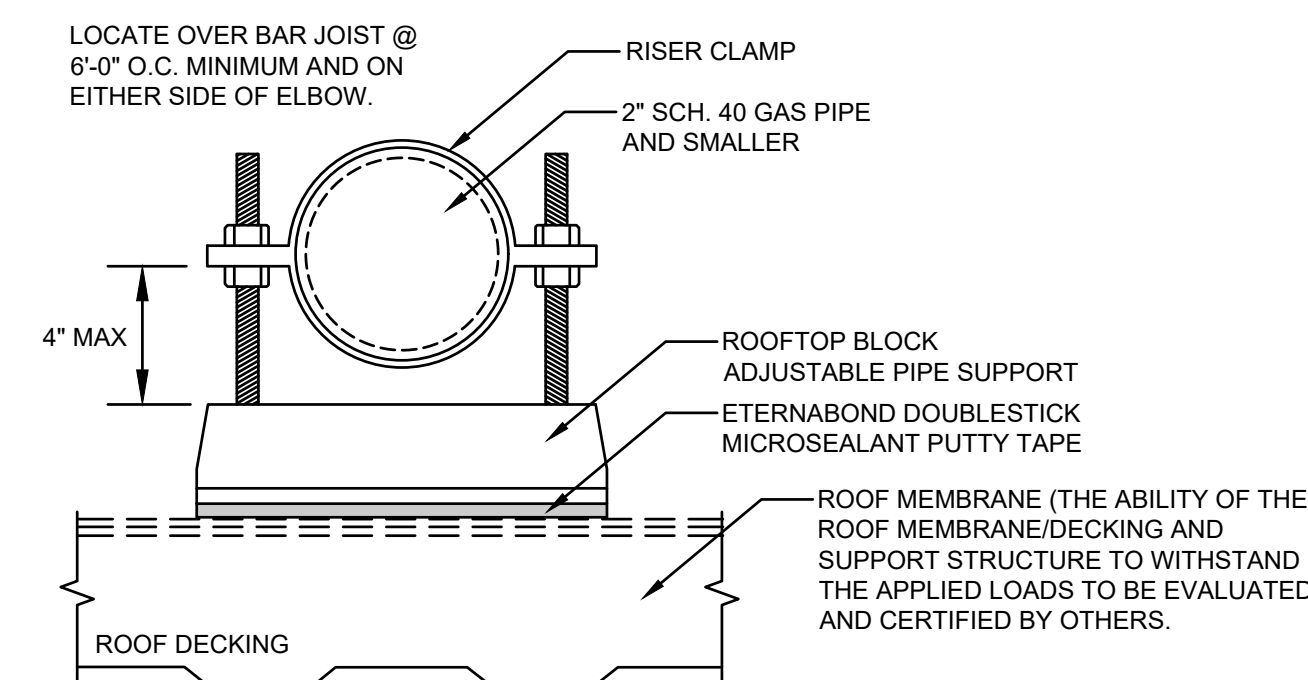
TYPICAL SPIN-IN DETAIL

NO SCALE



TYPICAL GAS PIPING DETAIL

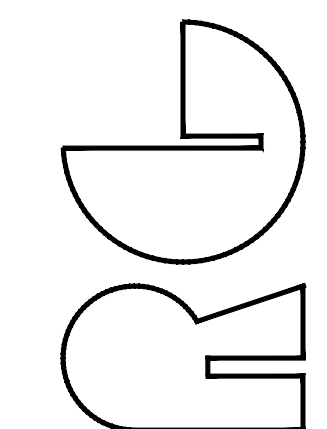
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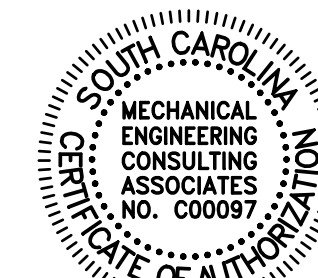
SEISMIC GAS PIPE SUPPORT DETAIL

NO SCALE

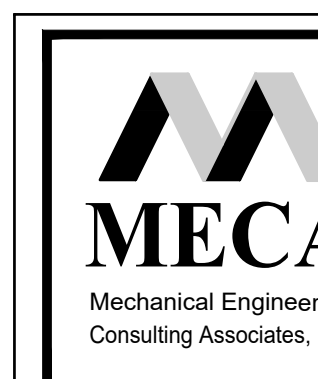
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RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.



FOR PERMITTING



2330 Main Street
Columbia, South Carolina 29201
Phone: (803) 765-9421
www.mecainc.com

Designed: JAS
Approved: PPC
Project #: 23197
Plot Date: 12/19/2023

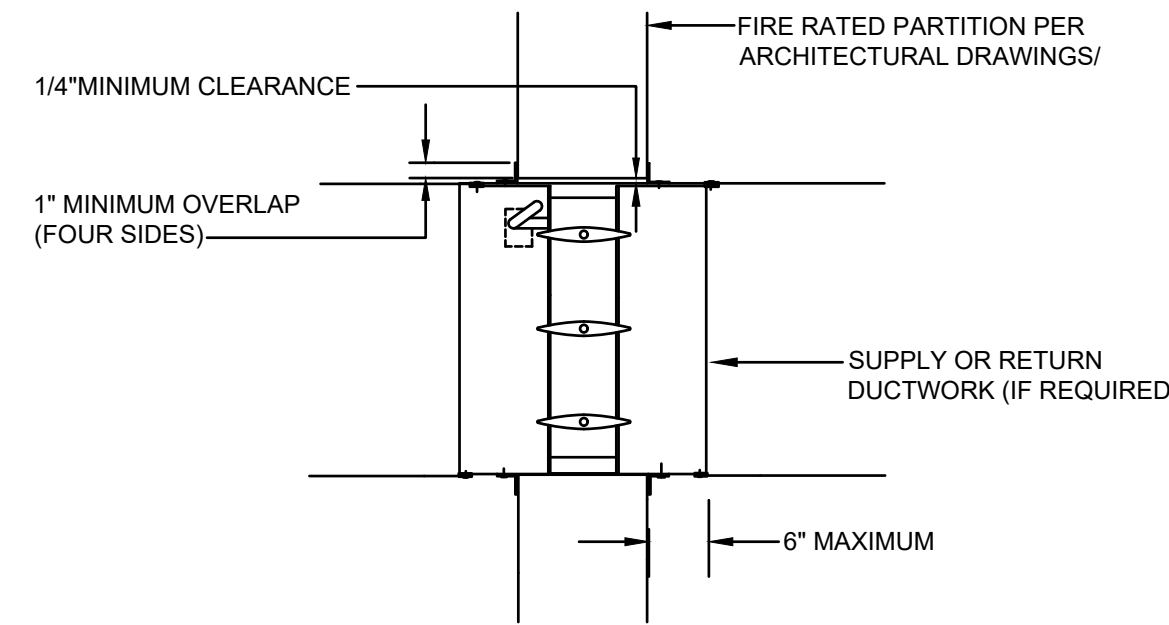
DATE: 12/2023

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M3

OF 5

NOTE:
REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND INSTALL ALL DEVICES IN STRICT COMPLIANCE WITH THOSE INSTRUCTIONS. CONTRACTOR TO MAINTAIN A COPY OF THE INSTALLATION INSTRUCTIONS ON THE JOB SITE AT ALL TIMES FOR REFERENCE.



TYPICAL FIRE/SMOKE DAMPER DETAIL

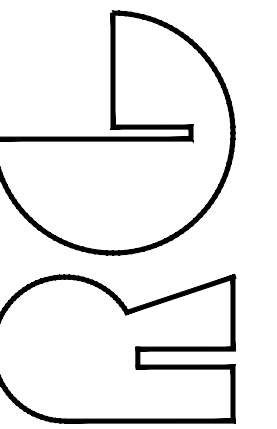
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FIRE/SMOKE DAMPER INSTALLATION NOTES

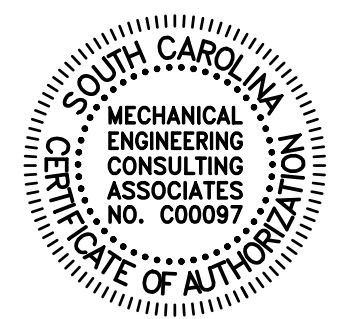
NOTES ARE FOR GENERAL INSTALLATION GUIDELINES. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND INSTALL ALL DEVICES IN STRICT COMPLIANCE WITH THOSE INSTRUCTIONS. CONTRACTOR TO MAINTAIN A COPY OF THE INSTALLATION INSTRUCTIONS ON THE JOB SITE AT ALL TIMES FOR REFERENCE.

1. OPENING IN FLOOR OR WALL SHALL BE A MINIMUM 1/8" PER FOOT LARGER THAN THE OVERALL DAMPER AND SLEEVE ASSEMBLY SIZE. MAXIMUM OPENING SIZE SHALL NOT EXCEED 1/8" PER FOOT PLUS 1". OPENING SHALL NOT BE LESS THAN 1/4" LARGER THAN ANY SIZE DAMPER AND SLEEVE ASSEMBLY.
2. DUCT TO DAMPER SLEEVE CONNECTIONS SHALL BE BREAKAWAY STYLE. RECTANGULAR DUCTS MUST USE ONE OR MORE OF THE FOLLOWING CONNECTIONS: PLAIN S-SLIP, HEIMED S-SLIP, STANDING S-SLIP, REINFORCED STANDING S-SLIP, INSIDE SLIP JOINT, AND DOUBLE S-SLIP. ROUND DUCTS MUST USE A 4" WIDE DRAW BAND CONNECTION. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR CONNECTION DETAILS. DUCTS CONNECTING TO SLEEVES SHALL BE AT LEAST EQUAL TO THE DUCT GAUGES OUTLINED IN NFPA90A. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SLEEVE GAUGES.
3. DUCTS CONNECTING TO SLEEVES SHALL BE EQUAL TO OR LESS THAN THE SLEEVE THICKNESS. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SLEEVE GAUGES.
4. MOUNTING ANGLES SHALL BE A MINIMUM OF 1-1/2" X 1-1/2" X 16 GAUGE, BOLTED WITH 1/4" X 20 BOLTS, WELDED, OR SCREWED WITH NO. 10 SCREWS TO DAMPER FRAME. MAXIMUM SPACING FOR FASTENERS SHALL BE 12" CENTER TO CENTER FOR VERTICAL DAMPER MOUNTING AND 8" CENTER TO CENTER FOR HORIZONTAL MOUNTING. A MINIMUM OF TWO CONNECTIONS IN EACH SIDE, TOP, AND BOTTOM IS REQUIRED. MOUNTING ANGLES SHALL OVERLAP FLOOR OR WALL A MINIMUM OF 1".
5. IF SLEEVES ARE TO BE FIELD SUPPLIED, THEY SHALL BE 10 TO 24 GAGE STEEL. THE FINAL SLEEVE ASSEMBLY SHALL HAVE INNER DIMENSIONS EQUAL TO THE DAMPER'S OUTER DIMENSIONS.
6. DAMPER SLEEVES SHALL NOT EXTEND MORE THAN 6" BEYOND THE FIRE WALL OR PARTITION UNLESS DAMPER IS EQUIPPED WITH AN ACTUATOR AND/OR FACTORY INSTALLED ACCESS DOOR. SLEEVE MAY EXTEND UP TO 16" BEYOND THE FIRE WALL OR PARTITION ON SIDES EQUIPPED WITH ACTUATOR AND/OR FACTORY INSTALLED ACCESS DOOR. SLEEVE SHALL TERMINATE AT BOTH SIDES OF WALL WITHIN DIMENSIONS SHOWN.
7. WHEN JOINING MULTIPLE DAMPER ASSEMBLIES OR FASTENING THE DAMPER TO THE SLEEVE, DAMPERS SHALL BE FASTENED WITH 1/4"-20 (M6) BOLTS, NO. (M5) SCREWS, OR 1/2" LONG WELDS STAGGERED INTERMITTENTLY 2" FROM THE ENDS OF THE JOINING SECTIONS OR FROM EACH CORNER. WHEN JOINING MULTIPLE DAMPER ASSEMBLIES, A CONTINUOUS 1/8" BEAD OF DOW-CORNING 998, DOW CORNING SILASTIC 732 RTV, OR GE RTV 108 SEALANT SHALL BE APPLIED ON THE MULLION JOINT. PRESS THE SURFACE OF THE SEALANT IN PLACE TO DISPEL ANY AIR.
8. ANOTHER BEAD OF THE SAME SEALANT SHALL BE APPLIED BETWEEN THE DAMPER AND SLEEVE IN THE SAME MANNER. ONLY ONE SIDE OF THE DAMPER REQUIRES CAULKING. NOTE THE SEALANT IS NOT REQUIRED WHEN DAMPERS ARE SUPPLIED FOR FIRE DAMPER APPLICATIONS ONLY AND ARE NOT REQUIRED TO BE LEAKAGE RATED.
9. VERTICAL INSTALLATION IS DEPICTED. HORIZONTAL INSTALLATION IN CONCRETE FLOORS IS SIMILAR. USE "MOUNT WITH ARROW UP" LABEL AS A GUIDE FOR PROPER DAMPER ORIENTATION.
10. DAMPER MAY BE SUPPLIED WITHOUT OPERATOR/ACTUATOR INSTALLED. QUALIFIED ACTUATORS (SUPPLIED BY THE DAMPER MANUFACTURER OR OTHERS) SHIPPED LOOSE FOR FIELD MOUNTING, MUST BEAR A UL LABEL AFFIXED BY THE DAMPER MANUFACTURER. ACTUATORS MUST BE INSTALLED AS TESTED PER UL INSTALLATION INSTRUCTIONS SUPPLIED BY THE DAMPER MANUFACTURER. CONTACT DAMPER MANUFACTURER FOR ACTUATORS INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING.
11. REFER TO MECHANICAL FLOOR PLANS FOR ACCESS DOOR LOCATIONS.
12. INSTALLATION MUST COMPLY WITH UNDERWRITERS LABORATORIES SAFETY STANDARD 555 AND MANUFACTURERS RECOMMENDATIONS.

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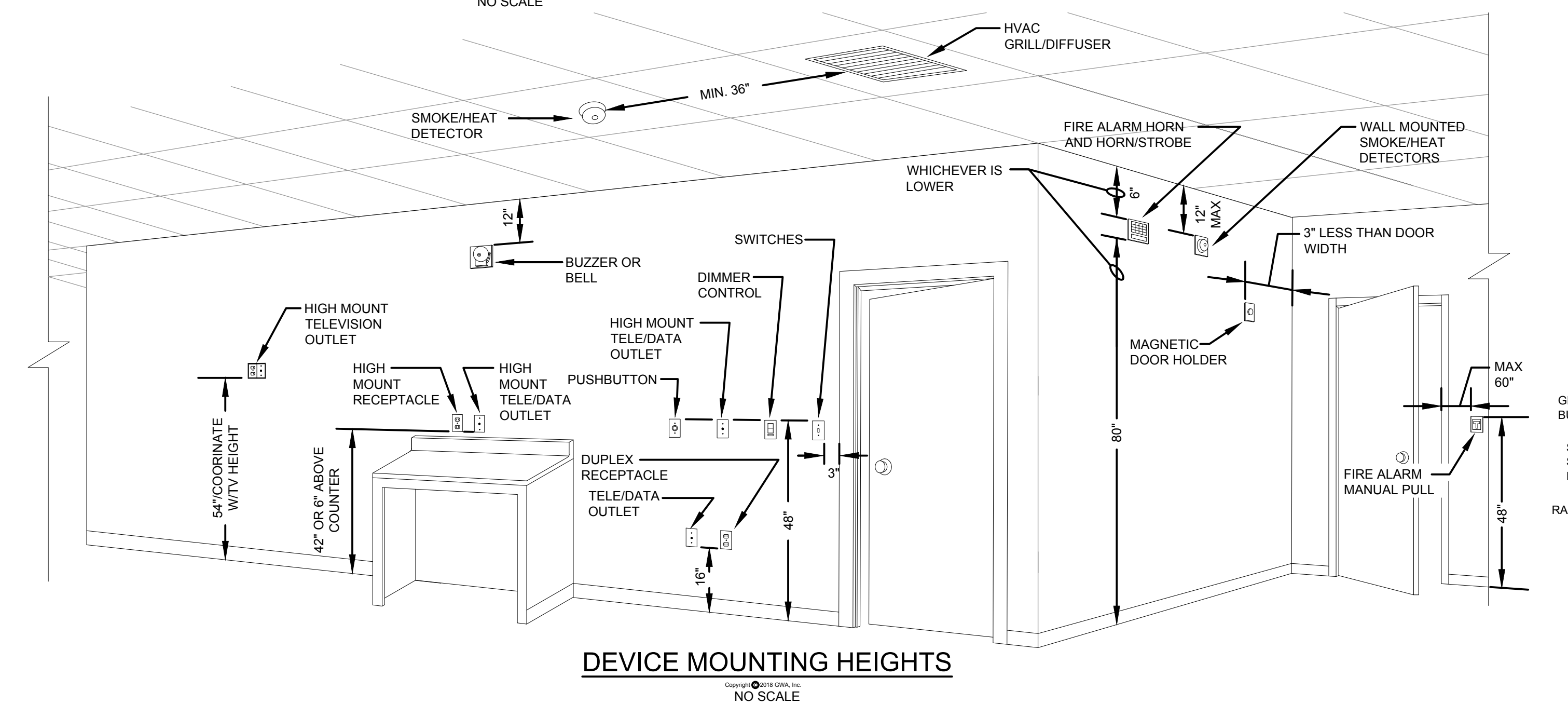
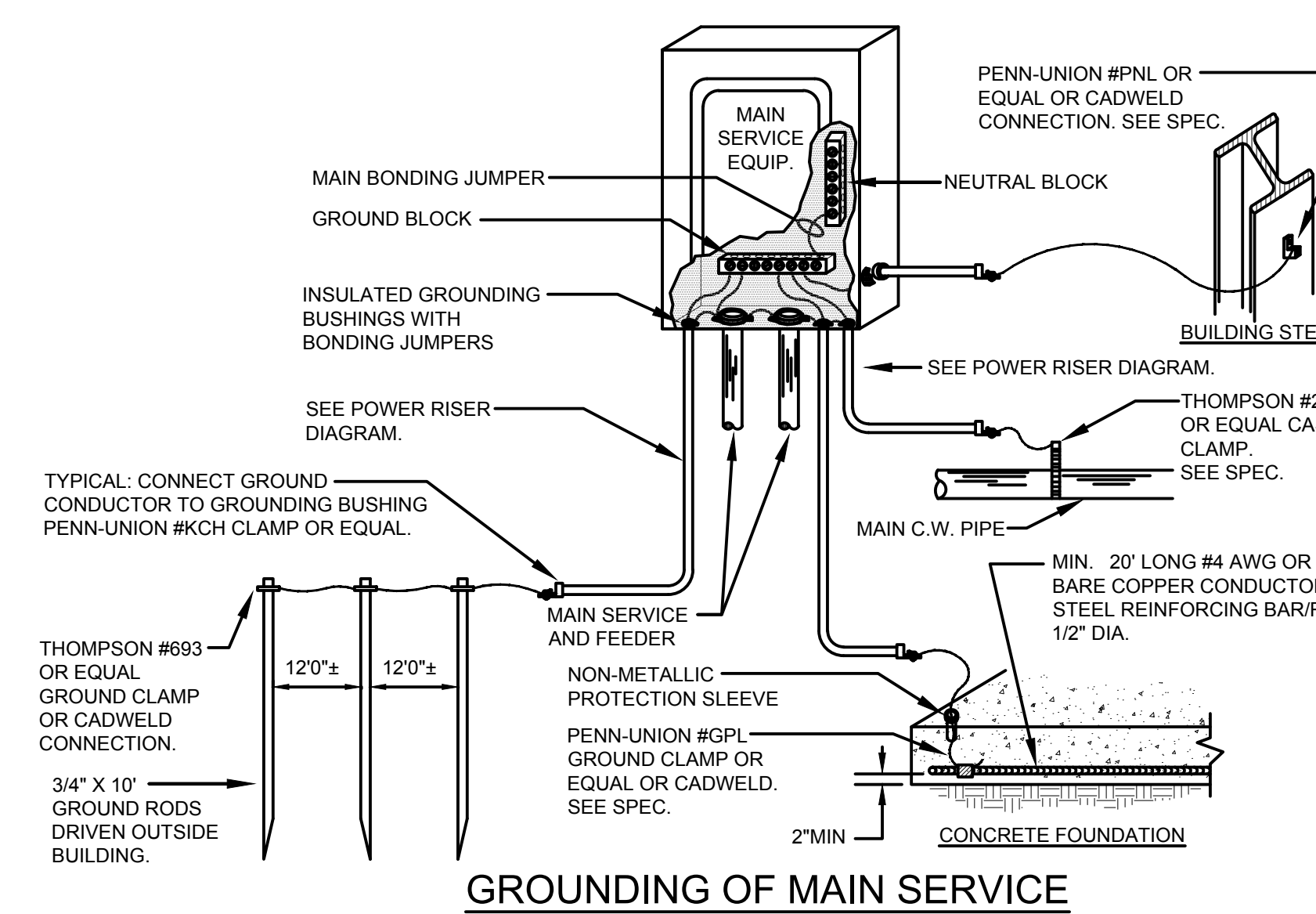
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OF 5

RACEWAY MATERIAL USE TABLE									
APPLICATION	EMT	IMC	GRS	RAC	ENT	SOH 40 PVC	HDPE	ACIMC CABLE	(4) MFD WIRING
CONCEALED ABOVE CEILING	●	●	●	●	●	●	●	●	●
CONCEALED IN WALLS	●	●	●	●	●	●	●	●	●
EXPOSED FROM FLOOR TO 7'-0" A.F.F. (INTERIOR)	●	●	●	●	●	●	●	●	●
EXPOSED FROM 7'-0" A.F.F. AND ABOVE (INTERIOR)	●	●	●	●	●	●	●	●	●
IN OR UNDER CONCRETE FLOORS	●	●	●	●	●	●	●	●	●
OUTDOORS - BELOW GRADE	●	●	●	●	●	●	●	●	●
OUTDOORS - EXPOSED	●	●	●	●	●	●	●	●	●
STUB-UPS BELOW PANELS & ENCLOSURES	●	●	●	●	●	●	●	●	●
FEEDER CONDUITS	●	●	●	●	●	●	●	●	●
SERVICE ENTRANCE	●	●	●	●	●	●	●	●	●
(1) WITH BITUMINOUS COATING. SEE SPEC. (2) OUTDOORS - BELOW GRADE.	(3) WITH PANEL "SKIRT" ONLY. (4) HOMERUNS SHALL BE WIRE IN CONDUIT								



ABBREVIATIONS

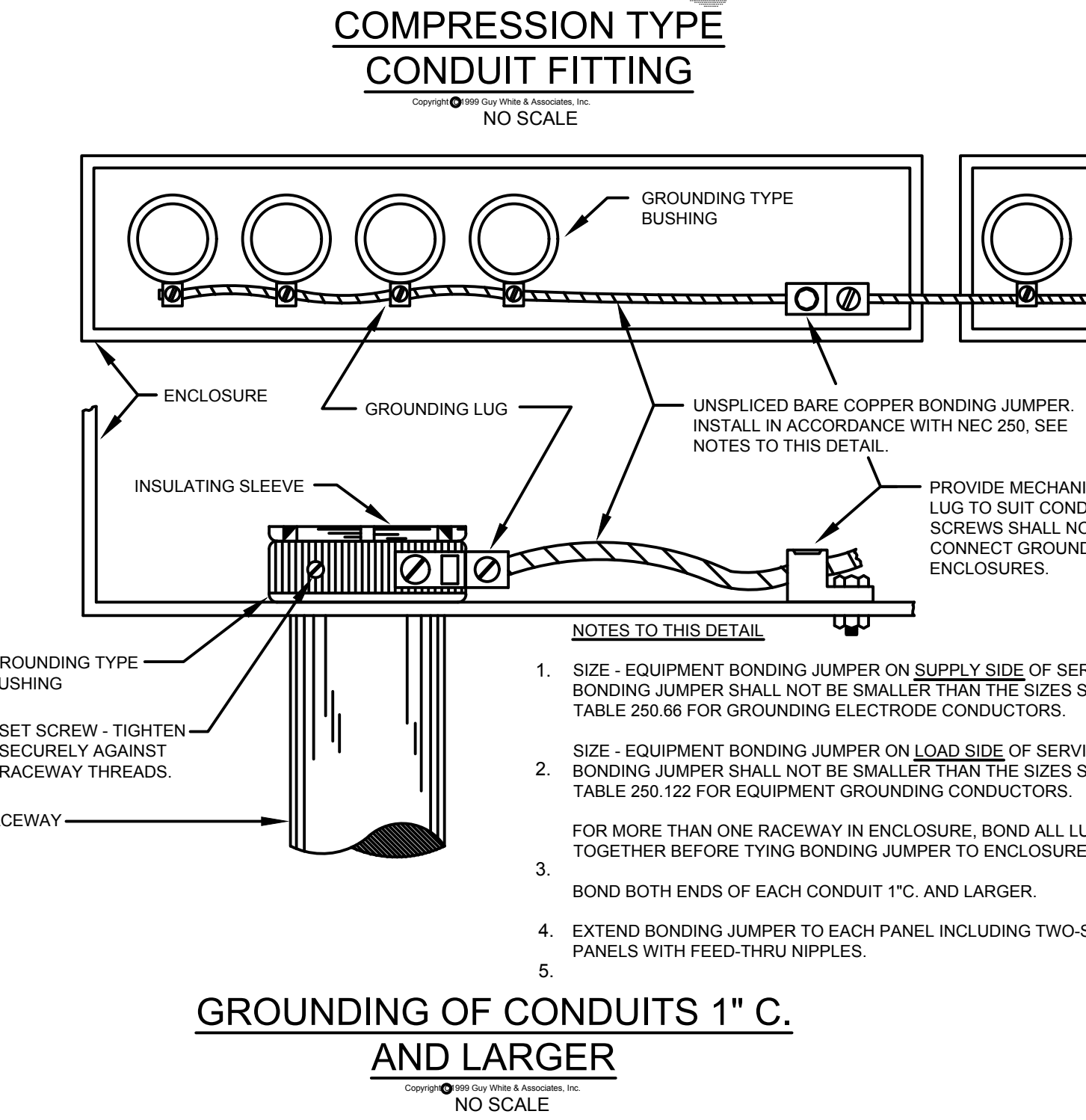
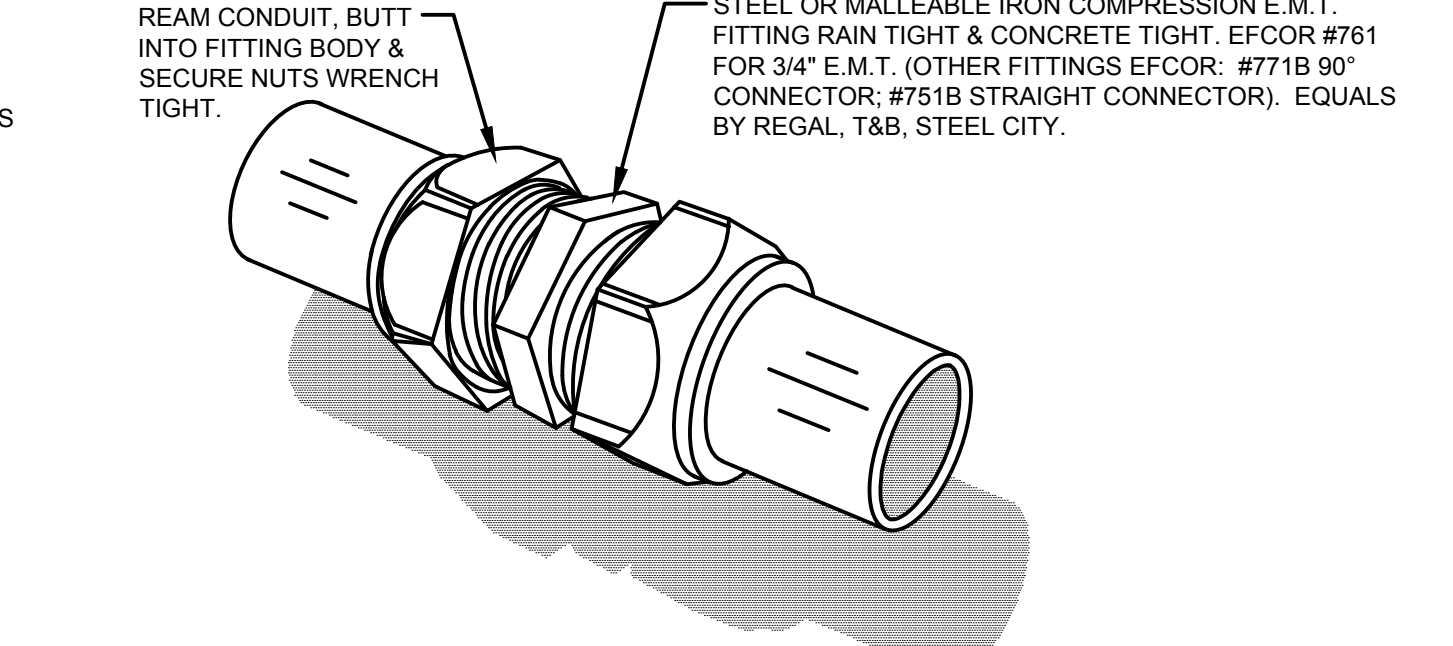
- THE FOLLOWING STANDARD ABBREVIATIONS ARE USED IN THESE PLANS AND SPECIFICATIONS. CONTRACTOR IS CAUTIONED THAT ALL ABBREVIATIONS LISTED MAY NOT BE USED; CONSULT PLANS AND SPECIFICATIONS FOR ABBREVIATIONS APPLICABLE TO THIS PROJECT.
- A.F.F. ABOVE FINISHED FLOOR
 - B.F.F. BELOW FINISHED FLOOR
 - A.F.G. ABOVE FINISHED GRADE
 - B.F.G. BELOW FINISHED GRADE
 - U.N.O. UNLESS NOTED OTHERWISE
 - CKT. CIRCUIT
 - C. CONDUIT
 - E.C. EMPTY CONDUIT
 - FLX. FLEXIBLE CONDUIT
 - WFLX WEATHERPROOF FLEXIBLE CONDUIT
 - EWFC ELECTRIC WATER COOLER
 - EHWH ELECTRIC WATER HEATER
 - VF VENTILATING FAN
 - CEF VENTILATING FAN (CEILING EXHAUST FAN)
 - AHU AIR HANDLING UNIT
 - FCU FAN COIL UNIT
 - CU CONDENSING UNIT
 - RTU ROOF TOP HEATING/COOLING UNIT
 - CT COOLING TOWER
 - P PUMP
 - EBH ELECTRIC BASEBOARD HEATER
 - EDH ELECTRIC DUCT HEATER
 - RAC ROOM AIR CONDITIONING HEATING UNIT
 - FURN FURNACE
 - BLR BOILER
 - CHLR CHILLER
 - HUM HUMIDIFIER
 - INC INCINERATOR
 - HP HEAT PUMP OR HORSEPOWER
 - EUH UNIT HEATER, ELECTRIC
 - GUH UNIT HEATER, GAS-FIRED
 - OIH UNIT HEATER, OIL-FIRED
 - GIUH UNIT HEATER, GAS-FIRED INFRARED
 - SUH UNIT HEATER, STEAM
 - EIUH UNIT HEATER, ELECTRIC INFRARED

BRANCH CIRCUIT WIRING - HASHMARK CODE

- BRANCH CIRCUITS SHOWN ON THESE DRAWINGS MAY INCLUDE HASHMARKS WHICH INDICATE THE NUMBER OF WIRES TO BE PROVIDED IN A CONDUIT RUN BETWEEN OUTLETS OR JUNCTION BOXES. WIRE SIZES SHALL BE AS TABULATED IN PANELBOARD SCHEDULES UNLESS OTHERWISE INDICATED ON PLAN. SEE SYMBOL SCHEDULE FOR CONDUIT ROUTING NOTATION. HASHMARK CODE IS AS FOLLOWS:
- TWO WIRES (NO HASHMARKS)
 - THREE WIRES (3 HASHMARKS)
 - FOUR WIRES (4 HASHMARKS)
 - FIVE WIRES (5 HASHMARKS)
 - ... AND SO FORTH.
- NOTE: GROUND WIRES ARE NOT GENERALLY SHOWN. EXAMINE SPECIFICATIONS AND GENERAL NOTES TO DETERMINE REQUIREMENTS FOR GROUND WIRES AND WHERE SPECIFIED, PROVIDE IN ADDITION TO THE NUMBER OF WIRES INDICATED BY HASHMARK CODE.
- NOTE: CONTRACTOR IS CAUTIONED THAT MULTI-WIRE (LINE-TO-NEUTRAL) BRANCH CIRCUITS DO NOT INDICATE ALL REQUIRED NEUTRAL CONDUCTORS. PROVIDE SEPARATE NEUTRAL CONDUCTORS (WITH COLORED STRIPE TO MATCH PHASE CONDUCTOR) FOR EACH PHASE CONDUCTOR.
- EMPTY CONDUITS ARE NOTED BY "EC" WITH TRADE SIZE.

GENERAL NOTES

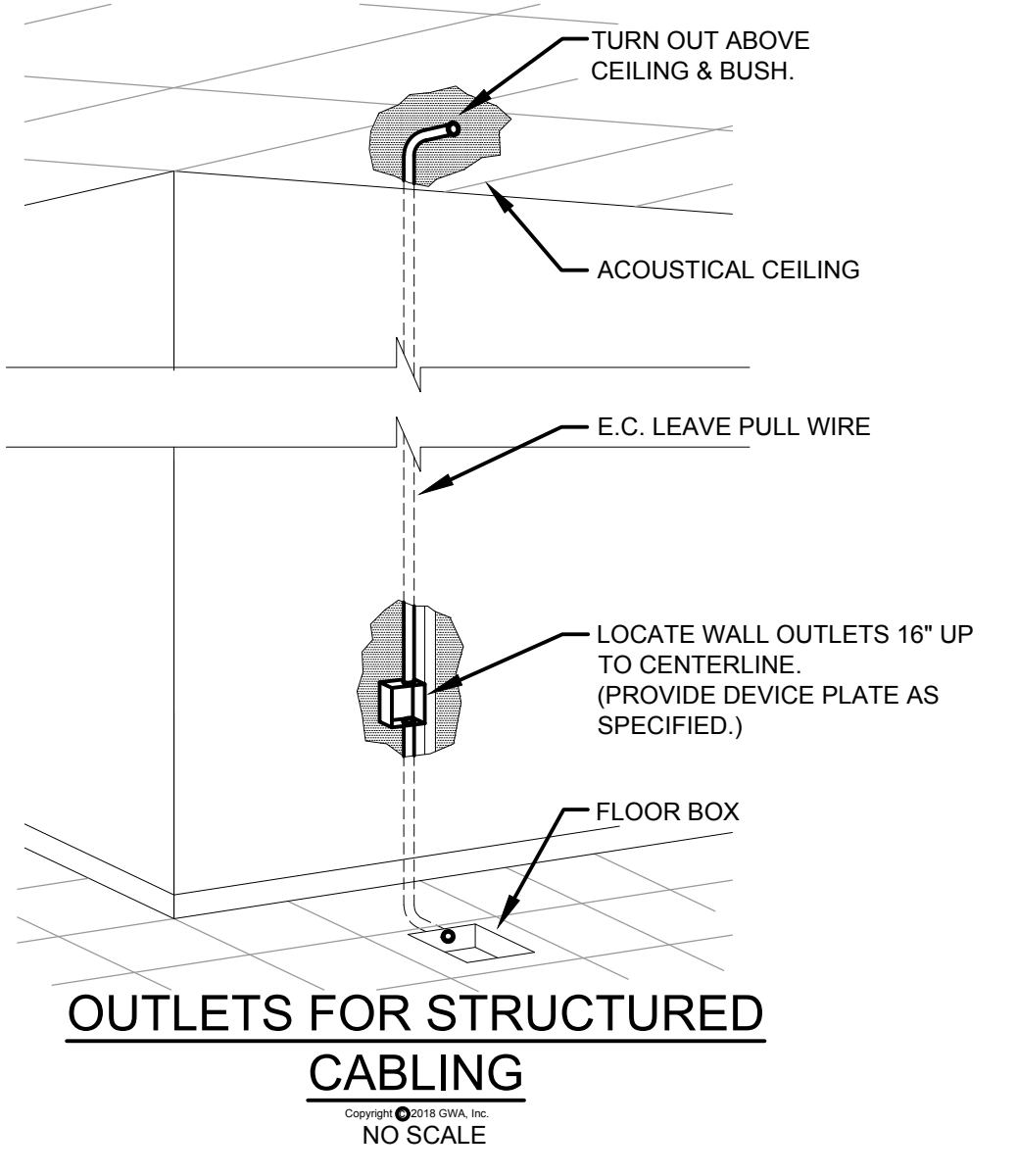
- DO NOT SCALE DRAWINGS UNLESS DIMENSIONS ARE SHOWN. LOCATE OUTLETS AND EQUIPMENT AS OBVIOUSLY INDICATED AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.
- MINIMUM SIZE CONDUCTOR FOR POWER SHALL BE NO. 12 AWG.
- ALL FUSES SHALL BE DUAL-ELEMENT TYPE, "FUSETRON" BY BUSSMAN, OR "ECON" BY ECONOMY.
- BRANCH CIRCUIT SIZES ARE AWG 12-1/2". UNLESS OTHERWISE NOTED IN PANELBOARD SCHEDULES.
- ALL BRANCH CIRCUIT LOADS SHALL BE BALANCED ACROSS PANELBOARD BUSES TO OBTAIN MINIMUM NEUTRAL CURRENT.
- ALL FLEXIBLE CONDUIT SHALL CONTAIN A GREEN WIRE BONDED TO RIGID RACEWAY, BOX OR FIXTURE AT EACH END OF FLEX. SIZE GROUND WIRE PER N.E.C. TABLE 250-122.
- PROVIDE PULL CORD IN ALL EMPTY RACEWAYS.
- ALL ELECTRICAL WORK ABOVE CEILINGS UTILIZED AS RETURN AIR PLenums SHALL COMPLY WITH N.E.C. AND LOCAL CODES FOR WIRING IN ENVIRONMENTAL AIR.
- DO NOT MOUNT FLUSH JUNCTION BOXES BACK TO BACK. STAGGER JUNCTION BOXES TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS.
- CONTRACTOR SHALL MINIMIZE REMOVAL OF STRUCTURAL STEEL FIREPROOFING FOR INSTALLATION OF CONDUIT AND EQUIPMENT HANGERS. OBTAIN APPROVAL OF GENERAL CONTRACTOR PRIOR TO REMOVAL.
- COORDINATE WITH OTHER TRADES TO CONCEAL ELECTRICAL WORK AND PROVIDE OUTLETS IN CORRECT LOCATIONS FOR EACH PIECE OF MECHANICAL OR ELECTRICAL EQUIPMENT CONNECTED.
- COORDINATE DEVICE REQUIREMENTS AND MOUNTING HEIGHTS FOR ELECTRIC WATER COOLERS, HAND DRYERS, SINKS, THRU-WALL UNITS AND THE LIKE WITH EQUIPMENT FURNISHED.
- CONCEAL OUTLETS FOR ALL EQUIPMENT IN FINISHED AREAS. OBTAIN ROUGHING DIAGRAMS FOR ALL EQUIPMENT AND INSTALL ELECTRICAL WORK IN LOCATIONS AND HEIGHTS ACCORDING TO DIAGRAMS.
- IN GENERAL, REFER TO DETAILS AND SYMBOL SCHEDULE FOR STANDARD DEVICE MOUNTING HEIGHTS. STUDY ARCHITECTURAL ELEVATIONS, SECTIONS AND CASEWORK DETAILS PRIOR TO ROUGHING AND ADJUST MOUNTING TO AVOID CONFLICTS, INCLUDING BACKSPASHES. ALL DEVICE MOUNTING SHALL BE IN ACCORDANCE WITH ADA/ANSI A117.1.
- CONTRACTOR SHALL VERIFY ALL DOOR SWINGS PRIOR TO ROUGHING - LOCATE SWITCHES AND OTHER DEVICES ACCORDINGLY.
- MOUNT BRACKET TYPE LIGHTING FIXTURES AT HEIGHTS SHOWN OR SCHEDULED ON DRAWINGS OR AS DIRECTED ON JOB BY ARCHITECT, U.N.O.
- ALL PENETRATIONS THRU WALLS, FLOORS, BARRIERS, PARTITIONS AND THE LIKE SHALL BE SEALED TIGHT. SEAL ALL PENETRATIONS THRU SMOKE TIGHT PARTITIONS WITH U.L. LISTED ASSEMBLIES OR METHODS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SMOKE PARTITIONS.
- FIRESTOP ALL RACEWAYS PASSING THRU FIRE-RATED WALLS, FLOORS OR PARTITIONS. USE U.L. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS APPROPRIATE FOR CONSTRUCTION AND WITH RATING EQUAL TO THAT BEING PENETRATED. SUBMIT SHOP DRAWINGS FOR SYSTEM(S) PROPOSED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATINGS.
- OPENINGS GREATER THAN SIXTEEN(16) SQUARE INCHES IN FIRE-RATED WALLS AND PARTITIONS SHALL BE PROTECTED WITH U.L. LISTED SYSTEMS, COMPONENTS AND METHODS AS REQUIRED TO MAINTAIN RATING. PROVIDE PUDDY PADS, LIGHT COVERS, INSERTS, WRAPS, COLLARS AND THE LIKE AS REQUIRED.
- ALL TYPEWRITTEN PANELBOARD DIRECTORIES, FIRE ALARM PROGRAMMING, LIGHTING CONTROL PROGRAMMING, LABELING AND THE LIKE SHALL UTILIZE FINAL OPERATIONAL ROOM NAMING SYSTEM AND SHALL REFLECT FINAL ROOM DESIGNATIONS. COORDINATE WITH ARCHITECT AND OWNER FOR FINAL NAMING.
- HANGER WIRES SHALL NOT CONFLICT/TOUCH OTHER TRADES/EQUIPMENT.



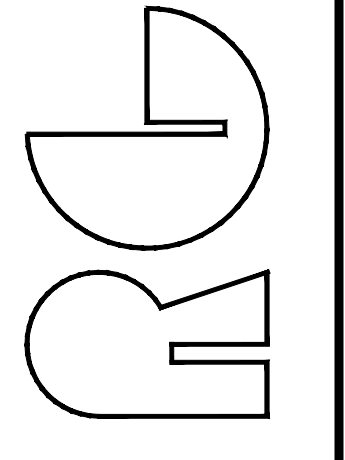
ELECTRICAL SYMBOLS

LIGHTING FIXTURE, CEILING (O-WALL MOUNT)	TOGGLE SWITCH
FIXTURE INDICATED, CONNECTED TO EMERGENCY POWER SOURCE	THREE WAY TOGGLE SWITCH
LIGHTING FIXTURE, WALL WASHER	FOUR WAY TOGGLE SWITCH
LIGHTING FIXTURE	WEATHERPROOF TOGGLE SWITCH
LIGHTING FIXTURE, CONNECTED TO EMERGENCY POWER SOURCE	LIGHTED TOGGLE SWITCH
PORCELAIN LAMPHOLDER	30A MANUAL CONTROLLER SWITCH (DPST)
EXIT LIGHT	MOTOR RATED TOGGLE SWITCH
EMERGENCY LIGHT UNIT	LOCK TOGGLE SWITCH (KEYED)
FLOODLIGHT	WALL SWITCH - OCCUPANCY SENSOR 48" UP
OUTDOOR LIGHTING STANDARD & FIXTURE	CEILING MOUNTED OCCUPANCY SENSOR
OUTDOOR LIGHTING STANDARD & FIXTURE	PROGRAMMABLE MASTER SWITCH
TRANSFORMER	PROGRAMMABLE SWITCH
PANELBOARD	DIMMING CONTROL FOR LIGHTING
SAFETY SWITCH	FIRE ALARM PULL STATION
ENCLOSED, MOLDED CASE CIRCUIT BREAKER	FIRE ALARM HORN/SPEAKER/STROBE (HC DENOTES HIGH CANDELLA)
MOTOR CONTROLLER OR CONTACTOR	FIRE ALARM STROBE (VISUAL ONLY) (HC DENOTES HIGH CANDELLA)
FLUSH JUNCTION BOX CEILING (O-WALL)	SMOKE DETECTOR
PULL BOX OR JUNCTION BOX IN FLOOR	HEAT DETECTOR
PHOTOCELL, 1800VA U.N.O., AIM NORTH.	DUCT SMOKE DETECTOR WITH SAMPLING TUBE
TIME SWITCH	FLOW SWITCH
TRANSIENT VOLTAGE SURGE SUPPRESSOR(TVSS)	TAMPER SWITCH
ELECTRIC MOTOR	DOOR HOLD-OPEN DEVICE
CONDUIT STUB	TELEPHONE OUTLET (HIGH MOUNT)
DUPLEX RECEPTACLE (HIGH MOUNT)	DATA OUTLET (HIGH MOUNT)
WEATHERPROOF DUPLEX RECEPTACLE, 16" UP	TELEPHONE/DATA OUTLET (HIGH MOUNT)
GROUND FAULT INTERRUPTER RECEPTACLE	TELEVISION OUTLET (HIGH MOUNT)
ARC FAULT INTERRUPTER RECEPTACLE	PUSHBUTTON
SPECIAL PURPOSE RECEPTACLE	BUZZER, BELL OR CHIME
DUPLEX FLOOR RECEPTACLE FOR POWER	CONNECTION TO EXISTING CIRCUIT
FLOOR OUTLET FOR TELEPHONE AND POWER	BRANCH CIRCUIT RACEWAY - CONCEALED IN WALL OR CEILING
FLOOR OUTLET FOR COMMUNICATIONS (TELE/DATA)	BRANCH CIRCUIT RACEWAY - CONCEALED IN FLOOR OR UNDERGROUND
CLOCK HANGER OUTLET (WALL MOUNT)	BRANCH CIRCUIT RACEWAY - EXPOSED
SPEAKER (WALL MOUNT)	
EXISTING; TO REMAIN	TYPICAL: SYMBOLS DENOTE EXISTING. REMOVE COMPLETE.
EXISTING; BEING RELOCATED	TYPICAL: "X" ON PLAN SYMBOLS DENOTES EXISTING. REMOVE COMPLETE.
EXISTING; NEW LOCATION	

NOTE: ALL DEVICES SHOWN ON THIS SCHEDULE ARE SYMBOLIC ONLY. SEE ELECTRICAL SPECIFICATIONS FOR EXACT DEVICE REQUIREMENTS AND PERFORMANCE CHARACTERISTICS.



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FOR PERMITTING

ELECTRICAL SYMBOLS, SCHEDULES AND DETAILS

DATE: 12/2023

SHEET
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OF 5

GWA: 23197


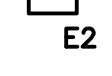


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GWA inc.
Electrical Engineers

12.19.2023

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	FIXTURE WATTAGE	NOTES
A	2' x 4' EDGE-LIT FLAT PANEL (LED)	LITHONIA	EPANL-2X4-4000LM-80CRI-MIN10-ZT	120V	39W	RECESSED-CEILING.
B	6" OPEN CYLINDER LED PENDANT/DOWNLIGHT	LITHONIA	LDN6CYL-35/50-L06AR-LSS-*	120V	58W	PENDANT-STRUCTURE. * DENOTES FINISH AS DIRECTED BY ARCHT.
BB	6" DOWNLIGHT	LITHONIA	LDN6-35/20-L06AR-LSS-*	120V	28.3W	RECESSED-CEILING. * DENOTES FINISH AS DIRECTED BY ARCHT.
C	4' UTILITY STRIP (LED)	LITHONIA	ZL1D-L48-5000LM-FST-40K-80CRI-*	120V	42W	SURFACE-CEILING. COORDINATE LOCATION WITH EQUIPMENT LAYOUTS FOR UNIFORM LIGHTING LEVELS. * DENOTES FINISH AS DIRECTED BY ARCHT.
D	3' LED WALL BRACKET (RESTROOM)	LITHONIA	FMVSL-36IN-30K-90CRI-BN	120V	46W	WALL-MOUNT PER GENERAL NOTES.
F	4' LED EXTERIOR WALL WASH FIXTURE	HYDREL	4750L-4FT-500LMF-40K-WWD-EA12-*	120V	22W	WALL-MOUNT AT 16" ABOVE SIDEWALK. PROVIDE WITH 1'-0" ARM EXTENSION. * DENOTES FINISH AS DIRECTED BY ARCHT.
 E1	EMERGENCY LIGHT UNIT	LITHONIA	ELM2L	120V	5W	SURFACE MOUNT. MINIMUM 90-MINUTE RATING.
 E2	HIGH-OUTPUT EMERGENCY LIGHT UNIT	LITHONIA	ELM6L-LTP-HO	120V	22W	SURFACE MOUNT. MINIMUM 90-MINUTE RATING.
	EMERGENCY LED EXIT SIGN	LITHONIA	LQM-S-W-R-M6	120V	2W	EMERGENCY EXIT SIGN, MINIMUM 90-MINUTE RATING. PROVIDE FACES, ARROWS, AND MOUNTING PER PLANS.
	EMERGENCY LED EXIT SIGN HIGH OUTPUT W/REMOTE HEAD (EXTERIOR RATED) WHEN INDICATED.	LITHONIA	LHQM-S-W-R-HO-RO	120V	4W	HIGH OUTPUT EMERGENCY EXIT SIGN W/REMOTE HEAD, MINIMUM 90-MINUTE RATING. PROVIDE FACES, ARROWS, AND MOUNTING PER PLANS.

NOTES TO LIGHTING FIXTURE SCHEDULE

- LOCATE ALL FIXTURES IN STRICT ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- COORDINATE ALL FINISHES WITH ARCHITECT PRIOR TO BID. IF CUSTOM COLORS ARE TO BE USED, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE WITH MANUFACTURER AND INCLUDE ADDITIONAL MONIES IN BID.

NOTES TO OCCUPANCY SENSORS

CEILING MOUNTED 360° OCCUPANCY SENSOR, INTERCONNECTION NOT SHOWN FOR CLARITY.

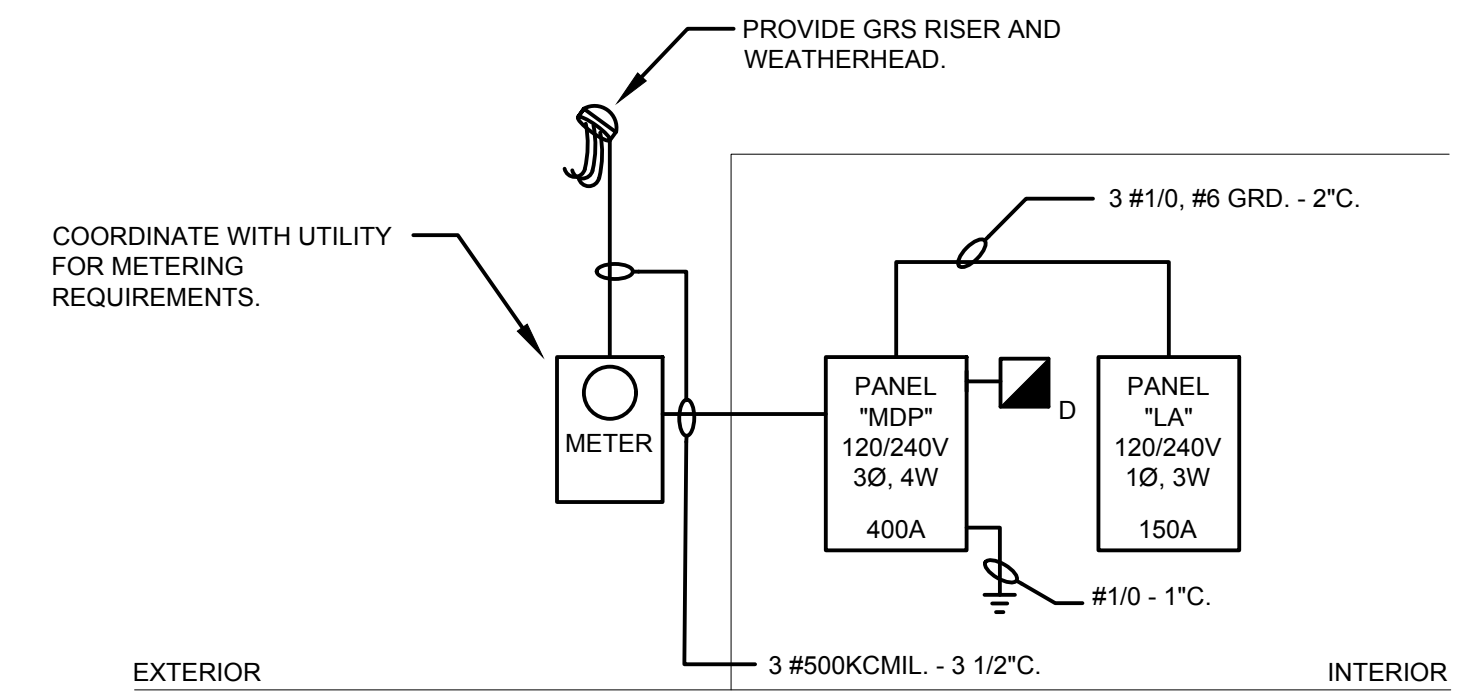
- SENSOR LOCATIONS ARE SCHEMATIC ONLY AND LOCATIONS SHOWN ARE INTENDED TO INDICATE AREA TO BE CONTROLLED BY SENSORS. PROVIDE ACTUAL QUANTITY, LOCATION AND TYPE OF SENSOR AS REQUIRED TO PROVIDE FULL COVERAGE FOR EACH SPACE INDICATED. SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
- ALL LAYOUTS AND INSTALLATION SHALL BE BASED ON APPROVED VENDOR SHOP DRAWINGS, ROUGH ONLY FROM THESE SHOP DRAWINGS AND COMPLY WITH ALL MANUFACTURER INSTALLATION INSTRUCTIONS.
- AT CONTRACTOR'S OPTION, SYSTEM MAY BE DIGITAL OR LOW VOLTAGE TYPE AND MAY UTILIZE SELF-CONTAINED DEVICES OR SEPARATE POWER PACKS/RELAYS.
- RESTROOMS, STORAGE ROOMS, JANITOR CLOSETS, EQUIPMENT ROOMS AND SIMILAR SPACES SHALL BE CONFIGURED AS AUTOMATIC ON/OFF WITH MANUAL OVERRIDE FUNCTION (OCCUPANCY SETTING). ALL OTHER SPACES SHALL BE CONFIGURED AS MANUAL ON, AUTOMATIC OFF WITH MANUAL OVERRIDE FUNCTION (VACANCY SETTING).
- ROOMS INDICATED WITH BOTH OCCUPANCY SENSORS AND MULTI-LEVEL SWITCHING OR DIMMING SHALL MAINTAIN FULL MANUAL CONTROL ABILITY FOR ADJUSTING LIGHTING LEVELS.
- SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED A MINIMUM OF ONE FOOT INSIDE THRESHOLD.
- ULTRASONIC SENSORS SHALL BE LOCATED A MINIMUM OF SIX(6) FEET FROM HVAC SUPPLY/RETURN, CEILING FANS AND OTHER AIR MOVEMENT DEVICES.
- ADJUST SENSOR LOCATIONS IN FIELD AS REQUIRED TO AVOID LINE-OF-SIGHT CONFLICTS WITH STRUCTURE, SUSPENDED LIGHTING, MECHANICAL DUCTWORK, CASEWORK, BULKHEADS AND OTHER ARCHITECTURAL OR BUILDING FEATURES. SENSORS SHALL NOT FALSE TRIGGER FROM ADJACENT SPACES.
- SENSORS INSTALLED IN DAMP OR WET LOCATIONS SHALL BE UL LISTED FOR USE IN RESPECTIVE AREA.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS.
- IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR OR GROUP OF SENSORS, AUXILIARY RELAYS MAY BE UTILIZED IN CONJUNCTION WITH POWER PACKS.

NEW PANEL - LABEL IN ACCORDANCE WITH NEC 110.15

SCHEDULE - PANELBOARD		_MDP_		TYPE: <input checked="" type="checkbox"/> NQOD <input type="checkbox"/> LINE		VOLTAGE: <input checked="" type="checkbox"/> 120/240V, 3Ø, 4W, WYE		MOUNTING: <input type="checkbox"/> FLUSH <input checked="" type="checkbox"/> SURFACE		AIC RATING: <input checked="" type="checkbox"/> 35K		
400 AMP <input type="checkbox"/> MLO <input type="checkbox"/> MCB		<input type="checkbox"/> NF <input type="checkbox"/> LDCTR		<input type="checkbox"/> 480/277V, 3Ø, 4W, WYE		ACCESSORY: <input type="checkbox"/> FEED-THRU LUGS		TOTAL SPACES: <input checked="" type="checkbox"/> 42				
NO.	LOAD DESCRIPTION	REMARK	BRKR	CIRCUIT	LOAD KVA	BUSSING	LOAD KVA	CIRCUIT	BRKR	REMARK	LOAD DESCRIPTION	NO.
1	RTGIP-1		45	3	8	1	4.8				RTGIP-2	2
2	"				4.6		5.3	1	8		"	3
3	"				4.6		5.3	1	8		"	4
7	RTGIP-3		70	3	4	1	7.5				RTGIP-4	8
8	"				7.5		7.5	1	4		"	9
9	"				7.5		7.5	1	4		"	10
13	SPACE ONLY										SPD TVSS	14
15	SPACE ONLY										"	15
17	PANEL L.A.		150	2	SEE RISER		14.5				"	18
19	"				16.7						"	20
21	"										"	21
22	"										"	22
23	"										"	23
25	"										"	24
26	"										"	25
27	"										"	26
28	"										"	27
31	"										"	28
33	"										"	29
35	"										"	30
37	"										"	31
38	"										"	32
39	"										"	33
41	"										"	34
CONNECTED LOAD, KVA: A 28.8 B 12.1 C 26.6						CONNECTED LOAD, KVA: A 12.8 B 12.8 C 12.8						
KVA, THIS PANEL: A 41.6 B 24.9 C 39.4						REMARK ABBREVIATION LEGEND: STB = SHUNT TRIP BRKR. GFI = GFI BRKR. SFB = SUB-FEED BRKR. VFY = VERIFY LOAD						
SERVICE ENTRANCE RATED												

NEW PANEL

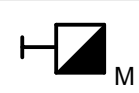
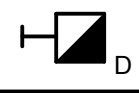
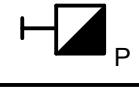
SCHEDULE - PANELBOARD		_LA_		TYPE: <input checked="" type="checkbox"/> NQOD <input type="checkbox"/> LINE		VOLTAGE: <input checked="" type="checkbox"/> 240/120V, 1Ø, 3W		MOUNTING: <input type="checkbox"/> FLUSH <input checked="" type="checkbox"/> SURFACE		AIC RATING: <input checked="" type="checkbox"/> 35K		
150 AMP <input type="checkbox"/> MLO <input type="checkbox"/> MCB		<input type="checkbox"/> NF <input type="checkbox"/> LDCTR		<input type="checkbox"/> 208/120V, 1Ø, 3W		ACCESSORY: <input type="checkbox"/> FEED-THRU LUGS		TOTAL SPACES: <input checked="" type="checkbox"/> 42				
NO.	LOAD DESCRIPTION	REMARK	BRKR	CIRCUIT	LOAD KVA	BUSSING	LOAD KVA	CIRCUIT	BRKR	REMARK	LOAD DESCRIPTION	NO.
1	RECEPT		20	1	1.2	1	1.0	1/2	12		LIGHTING	2
2	"				1.0		1.0	1/2	12		LIGHTING	3
3	"				1.0		1.0	1/2	12		LIGHTING	4
7	"				0.8		1.0	1/2	12		LIGHTING	8
9	"				1.2		1.2	1/2	12		SPECIALTY LIGHTING	10
11	"				0.8		0.8	1/2	12		SPECIALTY LIGHTING	12
13	"				1.4		1.4	1/2	12		FACE	14
15	"				1.0		1.0	1/2	12		SPARE	18
16	"				1.0		1.0	1/2	12		"	19
19	"				1.2		1.2	1/2	12		"	20
21	"				0.4		0.4	1/2	12		"	21
23	"				1.5		1.5	1/2	12		"	22
25	MICROWAVE				1.5		1.5	1/2	12		"	23
27	COFFEE				1.5		1.5	1/2	12		"	24
29	REFRIGERATOR				0.8		0.8	1/2	12		"	25
31	DISPOSAL				1.0		1.0	1/2	12		"	26
33	FSO				1.0		1.0	1/2	12		"	27
35	TRP-1				0.6		0.6	1/2	12		"	28
37	IWH		30	2	10	3/4	2.3				"	29
39	"						2.3				"	30
41	SPARE										"	32
CONNECTED LOAD, KVA: A 11.8 C 11.0						CONNECTED LOAD, KVA: A 4.9 C 3.5						
KVA, THIS PANEL: A 16.7 C 14.5						REMARK ABBREVIATION LEGEND: STB = SHUNT TRIP BRKR. GFI = GFI BRKR. SFB = SUB-FEED BRKR. VFY = VERIFY LOAD						

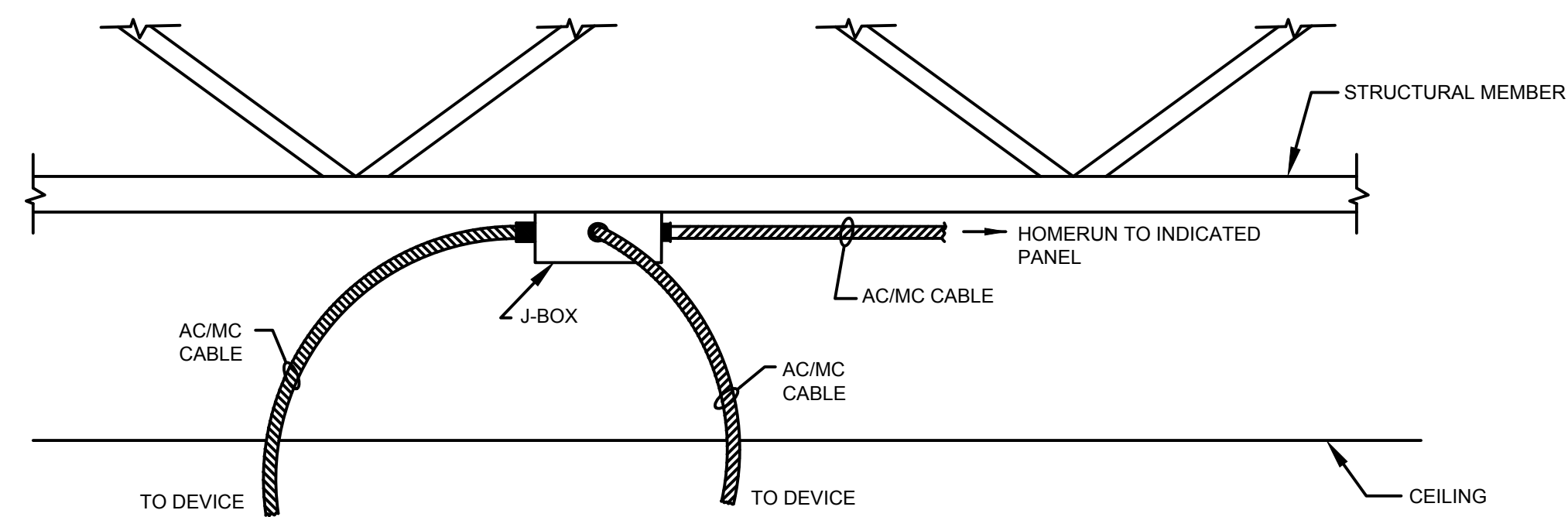


POWER RISER DIAGRAM
SCALE: NONE

NOTES TO SPD (SURGE PROTECTION DEVICES):

- PROVIDE SPD AT SWITCHGEAR, SWITCH BOARDS, MOTOR CONTROL CENTERS, PANELBOARDS AND OUTLETS AS INDICATED.
- INSTALL STRICTLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND NEC ARTICLE 285 REQUIREMENTS. LEAD LENGTHS SHALL BE EQUAL TO OR LESS THAN MANUFACTURER'S RECOMMENDED LENGTHS. PROVIDE OVERCURRENT PROTECTION IN CURRENT RATINGS AND NUMBER OF POLES PER MANUFACTURER'S INSTRUCTIONS.
- LOCATE SPD UNITS AS NEAR TO PROTECTED GEAR AS PHYSICALLY POSSIBLE IN ORDER TO MINIMIZE LEAD LENGTH.
- VOLTAGE RATING SHALL SUIT GEAR/DEVICES SERVED.
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SYMBOL	APPLICATION
	SERVICE ENTRANCE
	DISTRIBUTION PANEL
	BRANCH CIRCUIT PANEL



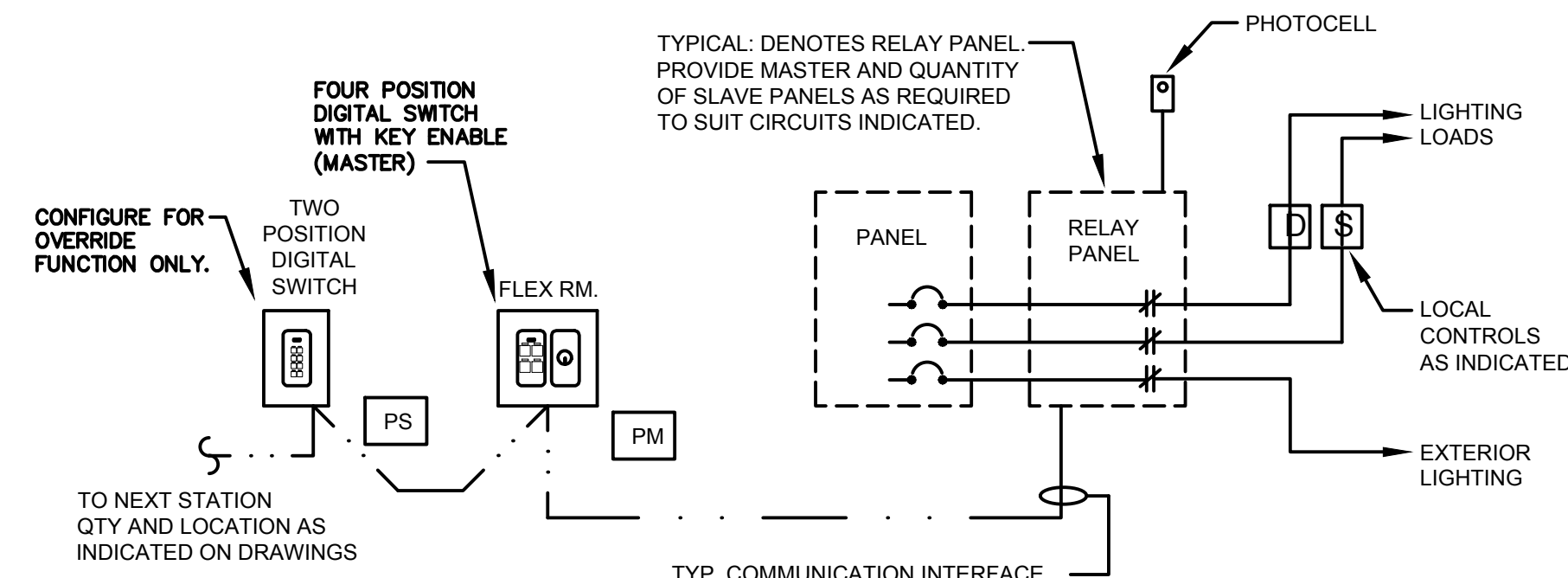
AC/MC CABLE DETAIL
NO SCALE

NOTE TO AC/MC CABLE DETAIL:

- UPON COMPLETION OF WORK AND PRIOR TO INSTALLATION OF GYPSUM WALLBOARD, THE SYSTEM SHALL BE FREE OF SHORTS, GROUND FAULTS, AND OPEN CIRCUITS. TEST SYSTEMS AS REQUIRED AND FURNISH THE ENGINEER A TEST REPORT.
- PROVIDE RED METALLIC RACEWAYS FOR ALL FIRE ALARM CONDUCTORS AND CABLES. AC/MC CABLE NOT PERMITTED.
- PROVIDE METALLIC RACEWAYS FOR ALL PATIENT FLOW SYSTEM CONDUCTORS AND CABLES. AC/MC CABLE NOT PERMITTED.
- PROVIDE METALLIC RACEWAYS FOR ALL PANELBOARD FEEDER CONDUITS. AC/MC CABLE NOT PERMITTED.
- PROVIDE RACEWAYS FOR ALL SERVICE ENTRANCE CONDUITS. AC/MC CABLE NOT PERMITTED.
- DO NOT BUNDLE OR STACK TOGETHER MORE THAN 10 AC/MC CABLES.
- SEE MATERIAL RACEWAY USE TABLE.

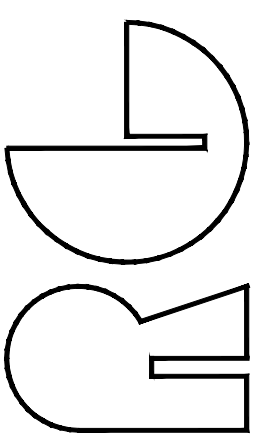
NOTES TO LIGHTING CONTROL RISER DIAGRAM

- ALL RELAY PANELS SHALL BE NETWORKED TOGETHER TO FORM A SEAMLESS, INTEGRATED SYSTEM. INCLUDE ALL INTERCONNECTION WIRING, CARDS, PROGRAMMING AND ASSOCIATED WORK COMPLETE.
- ALL LIGHTING CIRCUITS SHALL BE ROUTED THROUGH RELAY PANELS. QUANTITY AND LOCATION OF ALL PANELS ARE NOT INDICATED ON PLAN FOR CLARITY. PROVIDE RELAYS TO SUIT CIRCUITS INDICATED, INCLUDING SPARES FOR FUTURE USE. PROVIDE ADDITIONAL HOT (CONTACTOR BYPASS) CONDUCTORS IN CIRCUITS AS REQUIRED FOR APPLICATION.
- SUBMIT JOB SPECIFIC SHOP DRAWINGS INDICATED EQUIPMENT LOCATIONS, SCHEDULES, SINGLE LINE DRAWINGS AND ALL REQUIRED RACEWAY AND CONDUCTOR REQUIREMENTS.
- CONDUIT AND CONDUCTORS FOR CONTROL WIRING ARE INDICATED FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE ALL CONTROL AND INTERLOCK WIRING COMPLETE AS REQUIRED TO SUIT LIGHTING CONTROL SYSTEM FURNISHED.
- CONTRACTOR SHALL CAREFULLY EXAMINE PLANS AND PROVIDE A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM FOR ALL LIGHTING INDICATED. PROVIDE ALL RELAY CABINETS, CONTROLLERS, SENTRY SWITCHES, INPUT DEVICES, SOFTWARE, PROGRAMMING AND THE LIKE AS REQUIRED.
- FOR CIRCUITS INDICATED AS DIMMING TYPE, PROVIDE 0-10V DIMMER MODULE IN CONTROL PANEL, DIMMING POWER SUPPLY AND ALL ASSOCIATED CONTROL WIRING.
- EXTERIOR LIGHTING CIRCUITS SHALL BE CONFIGURED TO ALLOW OPERATING SCHEDULE/PROGRAM INDEPENDENT OF INTERIOR LIGHTING. PROGRAMMING AND SCHEDULING SHALL BE AS DIRECTED BY OWNER.
- PROVIDE FACTORY SWITCH ENGRAVING FOR DIGITAL SWITCHES. TEXT SHALL BE AS DIRECTED BY OWNER.



LIGHTING CONTROL RISER DIAGRAM
NO SCALE

ROBERT GOODSON
ARCHITECTURE-PLANNING-DESIGN
P.O. BOX 446 527 E. CAROLINA AVE.
HARTSVILLE, S.C.(843)-383-5212



RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.

FOR PERMITTING

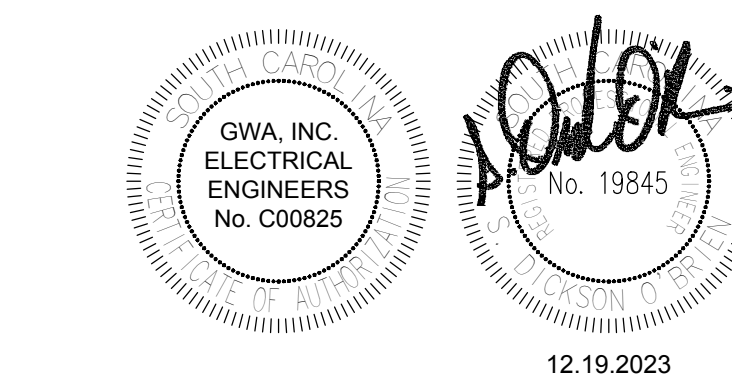
ELECTRICAL
SCHEDULES
AND DETAILS

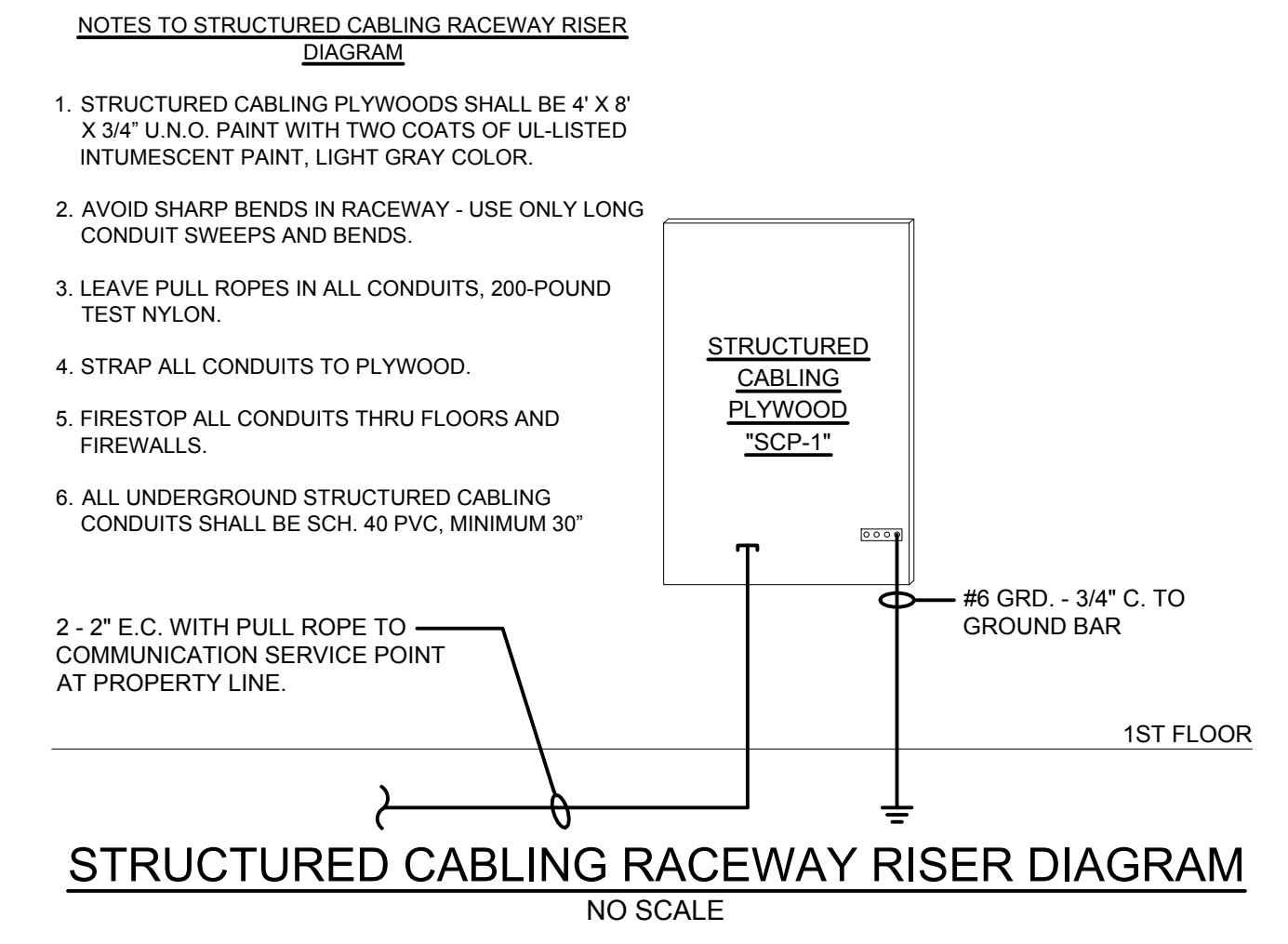
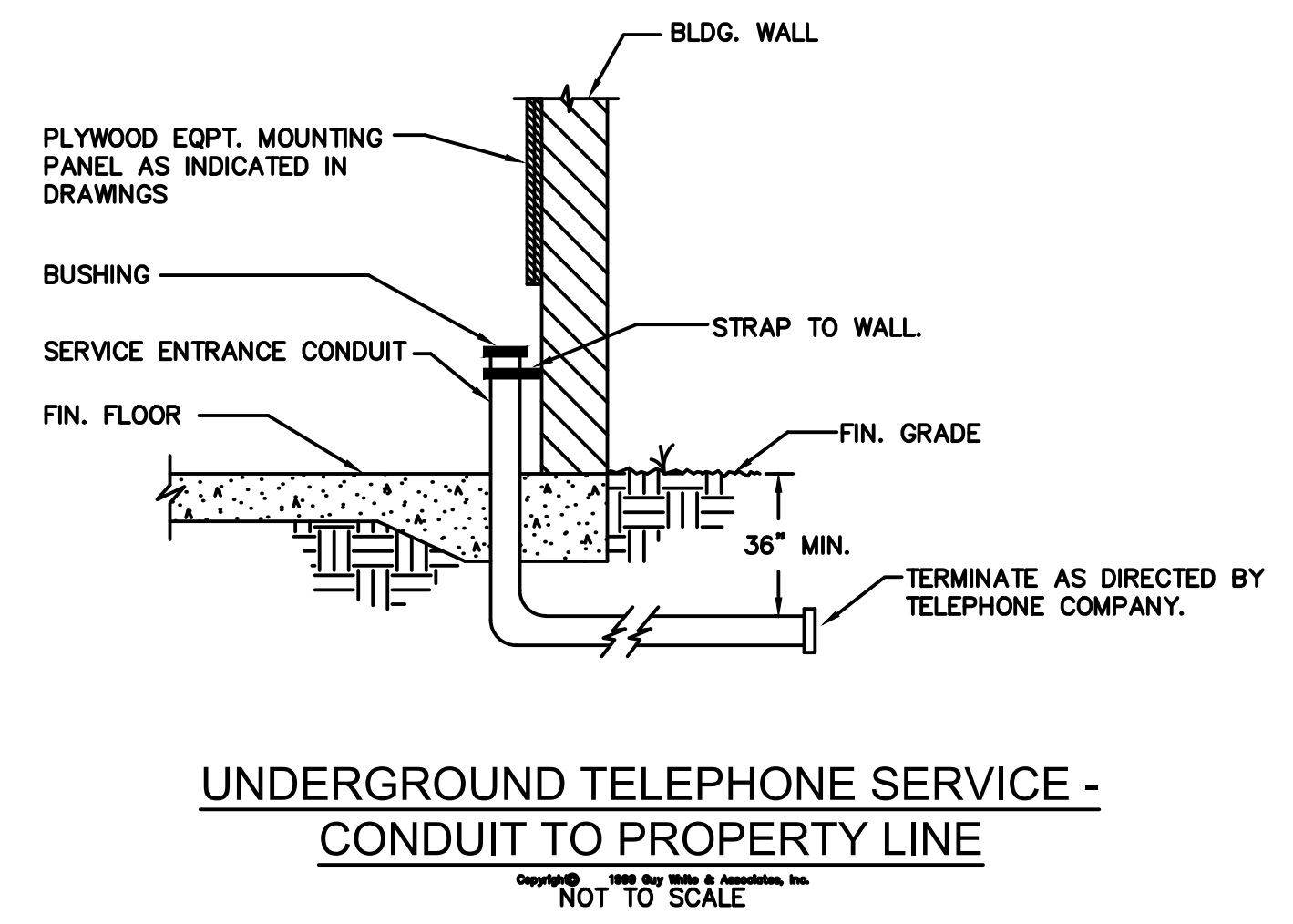
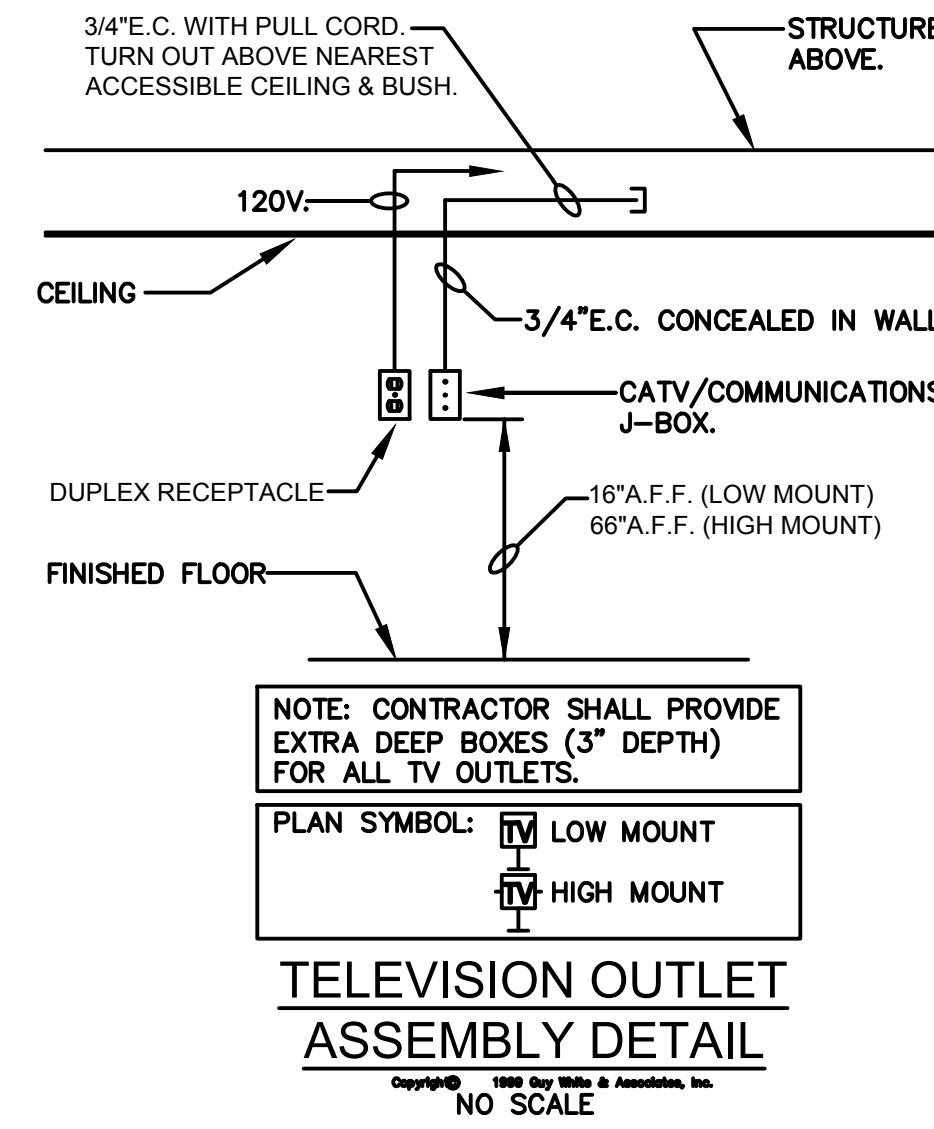
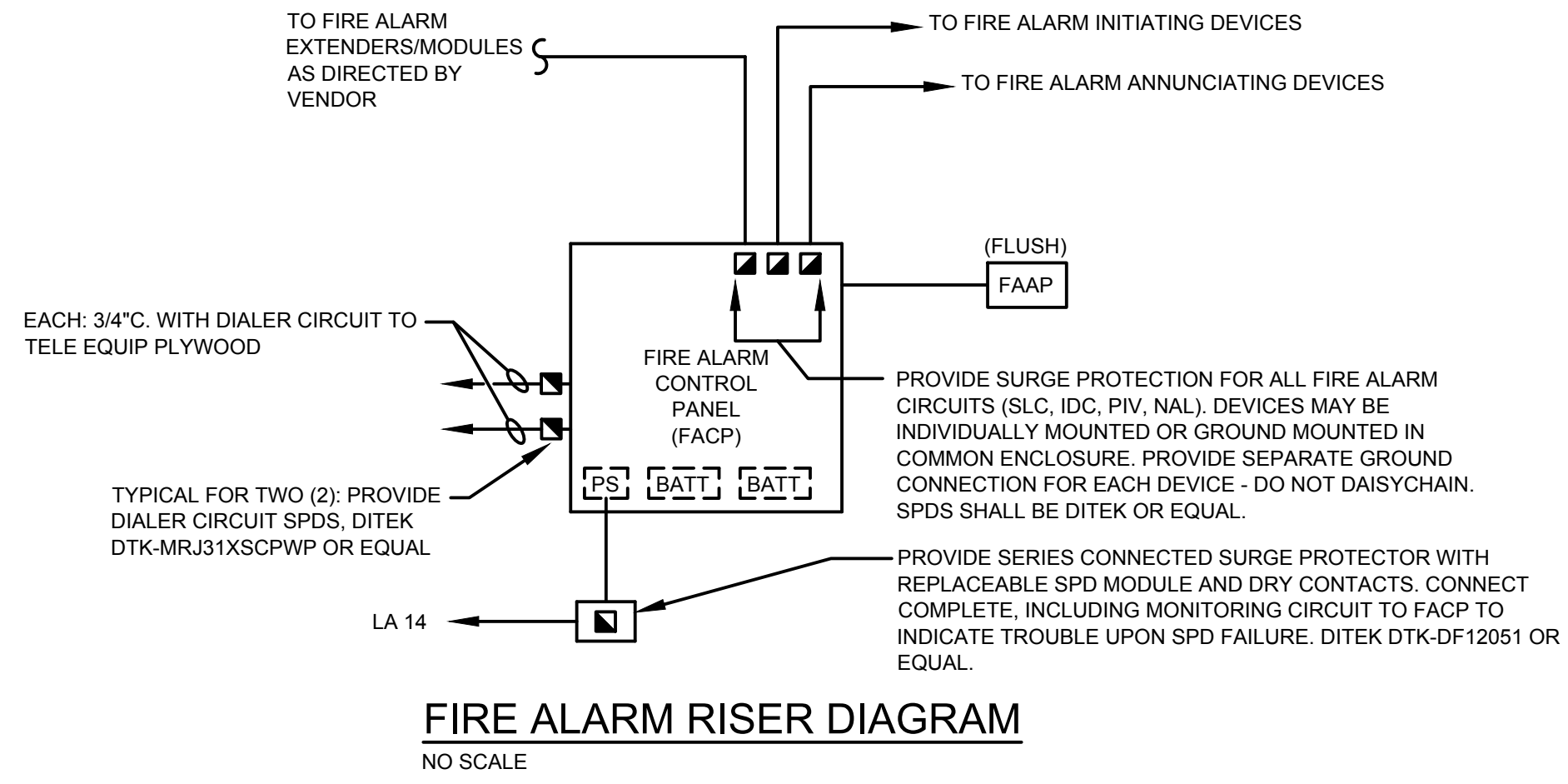
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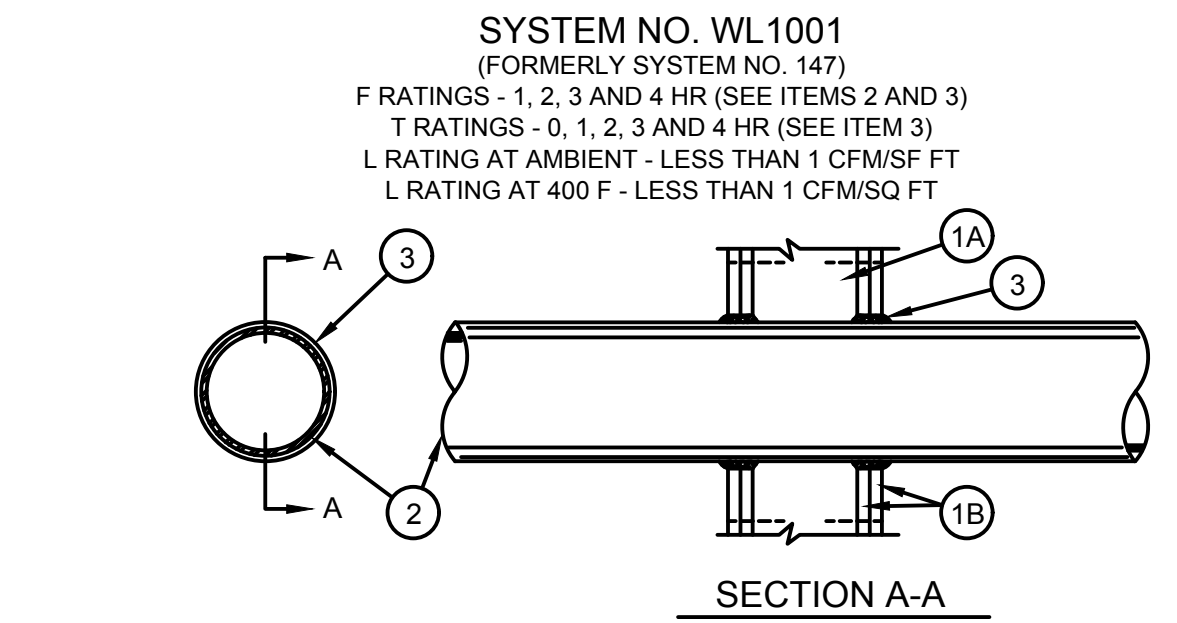
GWA, INC. 23197
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Columbia, SC 29210
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NOTES TO FIRE ALARM RISER DIAGRAM

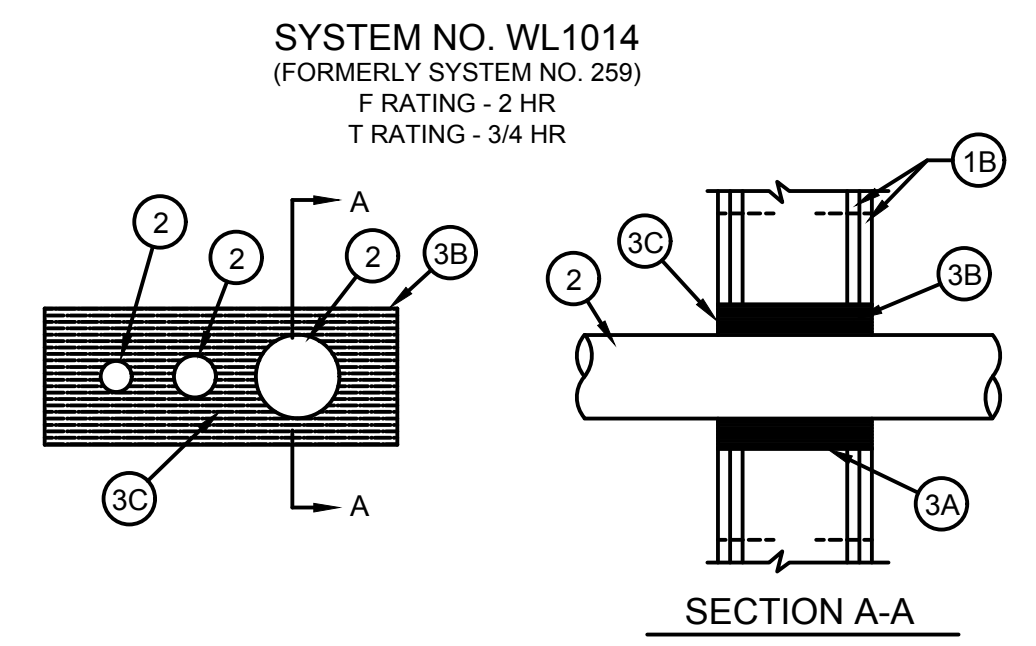
- ALL WORK SHALL BE IN ACCORDANCE WITH IBC (2021), IFC (2021), NFPA 70 (2020), NFPA 72 (2019), NFPA 101 (2018), ADA (2010) AND ICC/ANSI A117.1 (2017) AND ALL LOCAL CODES AND REGULATIONS.
- SYSTEM SHALL BE MULTIPLEX TYPE. ALL DEVICES AND SYSTEM COMPONENTS SHALL BE UL LISTED FOR APPLICATION.
- PROVIDE A FIRE ALARM DOCUMENTS BOX (FDB) IN ACCORDANCE WITH NFPA 72, 7.7.2 REQUIREMENTS. INSTALL IN ACCESSIBLE AREA NEAR FIRE ALARM CONTROL PANEL AS APPROVED BY AHJ.
- ALL STROBES SHALL BE SYNCHRONIZED.
- ALL CONDUCTORS SHALL BE INSTALLED IN RACEWAYS. RACEWAYS SHALL BE METALLIC CONDUIT, MINIMUM 3/4" SIZE.
- PROVIDE SURGE PROTECTION FOR POWER SUPPLIES, TRANSPONDERS, EXTENDER PANELS, DIALERS, ANNUNCIATION AND INITIATING CIRCUITS. EQUIPMENT SHALL BE UL LISTED FOR APPLICATION AND INSTALLED IN ACCORDANCE WITH MANUFACTURER GUIDELINES.
- COORDINATE WITH OWNER FOR UL APPROVED REPORTING SERVICE - OWNER WILL CONTRACT WITH REPORTING SERVICE. PROVIDE REPORTING DEVICE(S), DUAL-REPORTING TYPE, COMPATIBLE WITH AND AS APPROVED BY REPORTING SERVICE SELECTED.
- FIRESTOP ALL PENETRATIONS THRU RATED PARTITIONS AND FLOORS. USE UL LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS APPROPRIATE FOR CONSTRUCTION TYPE AND WITH RATING EQUAL TO THAT BEING PENETRATED.
- FIELD ADJUST SMOKE DETECTOR SPACING IN CORRIDORS AS REQUIRED TO MAINTAIN MIN. 3'-0" SEPARATION FROM AIR REGISTERS. MAINTAIN MAXIMUM 30'-0" SPACING BETWEEN DETECTORS AND 3'-0" FROM DOOR HOLD OPEN DEVICES.
- CONTRACTOR SHALL FIELD VERIFY TRANSPONDER, EXTENDER PANEL AND FIRE ALARM J-BOX LOCATIONS AND COORDINATE FINAL LOCATIONS WITH OWNER PRIOR TO ROUGHING. PROVIDE SMOKE DETECTORS AT ALL NEW CONTROL PANELS IN ACCORDANCE WITH NFPA 72.
- CONTRACTOR SHALL COORDINATE FIRE ALARM DEVICE LOCATIONS TO AVOID CONFLICT WITH CONDITIONS SUCH AS LOCKERS, ARTWORK, BULLETIN BOARDS, CASEWORK, STRUCTURAL COMPONENTS, BULKHEADS AND THE LIKE. ADJUST AS REQUIRED, MAINTAINING COMPLIANCE WITH NFPA 72.
- INSTALL ALL STROBE AND COMBINATION DEVICES WITHIN 15' FROM THE END OF CORRIDORS IN ACCORDANCE WITH NFPA 72.
- REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR FOR FIRE/SMOKE DAMPERS, MECHANICAL UNIT TYPES AND CHARACTERISTICS, LOCATIONS, QUANTITIES AND FUNCTIONS. PROVIDE DUCT AND AREA DETECTORS IN COMPLIANCE WITH LOCAL CODES. MOUNTING IN DUCTS SHALL BE IN ACCORDANCE WITH CODES AND MANUFACTURER GUIDELINES. PROVIDE DETECTORS AT CONNECTIONS TO VERTICAL RETURN AIR SHAFTS PER IBC. CONNECT COMPLETE FOR AIR HANDLER SHUTDOWN IN ACCORDANCE WITH LOCAL CODES.
- LABEL FIRE ALARM ANNUNCIATION DEVICES AS DIRECTED BY A.H.J.
- BUILDING WILL BE SPRINKLERED. VERIFY QUANTITIES AND LOCATION OF FLOW SWITCHES, TAMPER SWITCHES, POST INDICATING VALVES AND OTHER DEVICES WHICH COULD PREVENT THE REQUIRED OPERATION OF THE SPRINKLER SYSTEM WITH THE APPROVED FIRE PROTECTION SHOP DRAWINGS AND SPRINKLER CONTRACTOR AND CONNECT COMPLETE IN ACCORDANCE WITH LOCAL CODES.



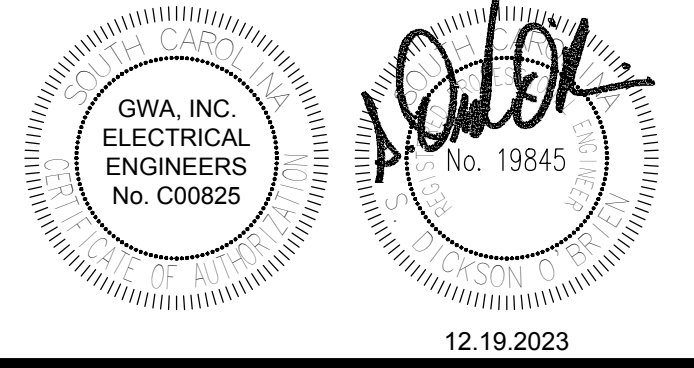
- WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED 16" OC WITH NOM. 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. OC.
 - WALLBOARD GYPSUM* - NOM. 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPES AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIAM. OF OPENING IS 13-1/2 IN.
- PIPE OR CONDUIT - NOM. 12 IN. DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) CAST IRON SOIL PIPE, NOM. 12 IN. DIAM. (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM. 12 IN. DIAM. (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM. 6 IN. DIAM. (OR SMALLER) STEEL CONDUIT, NOM. 4 IN. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM. 6 IN. DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING OR NOM. 1 IN. DIAM. (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX. F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOM. 4 IN. DIAM. MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX. OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
- FILL VOID OR CAVITY MATERIAL* - CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN. 1/4 IN. DIAM. BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX. PIPE OR CONDUIT DIAM., IN.	ANNULAR SPACE IN.	F RATING HR	T RATING HR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
4	0 TO 1-1/2#	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

* WHEN COPPER PIPE IS USED, T RATING IS 0 H.
0 TO 1-1/2 IN. ANNULAR SPACE APPLIES ONLY WHEN TYPE CP-25 WB - CAULK IS USED AND ONLY WHEN THE MIN. THICKNESS OF THE GYPSUM WALLBOARD IS 5/8 IN. FOR 1 HR RATED WALLS AND 1-1/4 IN. FOR 2 HR RATED WALLS.
MINNESOTA MINING & MFG. CO. - CP 25WB+
* BEARING THE UL CLASSIFICATION MARKING.

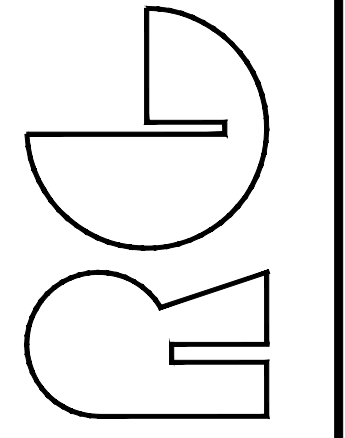


- WALL ASSEMBLY - THE FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN. 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC.
 - WALLBOARD GYPSUM* - TWO LAYERS OF NOM. 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. AREA OF OPENING IS 78 SQ. IN. WITH MAX. DIMENSION OF 12 IN.
 - METALLIC PIPE - NOM. 3-1/2 IN. DIAM. (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE, CONDUIT OR STEEL ELECTRICAL METALLIC TUBING. THE SPACE BETWEEN PIPES, CONDUITS, OR TUBING SHALL BE MIN. BE 1 IN. TO MAX. 2-5/8" THE SPACE BETWEEN PIPES, CONDUITS OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN. 1 IN. TO MAX. 2-5/8. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
 - FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - STEEL WIRE MESH - NO. 8 STEEL WIRE MESH HAVING A MIN. 1 IN. LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL WIRE MESH TO BE 4 IN., CENTERED AND FORMED TO FIT PERIPHERY OF THROUGH OPENING.
 - FILL, VOID OR CAVITY MATERIAL* - PILLOW-LIKE MATERIAL TIGHTLY PACKED INTO THE ANNULAR SPACE BETWEEN THE PIPES AND PERIMETER OF THROUGH OPENING. PRIOR TO INSTALLATION, THE PILLOW-LIKE MATERIAL SHALL BE PATTED DOWN BY HAND OR WITH A FLAT BOARD TO EVENLY DISTRIBUTE CONTENTS. THE PILLOW-LIKE MATERIAL SHALL BE INSTALLED HORIZONTALLY SUCH THAT IT IS FLUSH WITH THE SURFACES OF THE WALL. METALINES, INC. - METACAULK 910 RETROFIT BAGS. RECTORSEAL CORP. - METACAULK 910 RETROFIT BAGS
 - FILL, VOID OR CAVITY MATERIAL* - CAULK - APPLIED TO ALL RETROFIT BAG JOINTS, VOIDS, PERIMETER OF PIPES, AND PERIMETER OF THROUGH OPENING TO A MIN. DEPTH OF 1/8 IN. THE RECTORSEAL CORP. - METACAULK 950.
- * BEARING THE UL CLASSIFICATION MARKING.



FOR PERMITTING

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RENOVATIONS FOR
ONE CHURCH
126 WEST CAROLINA AVENUE, HARTSVILLE, S.C.

ELECTRICAL DETAILS

DATE: 12/2023

SHEET
E003
OF 5

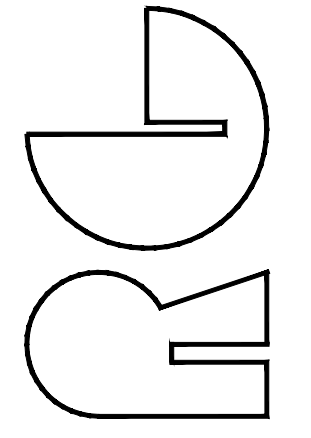
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RENOVATIONS FOR
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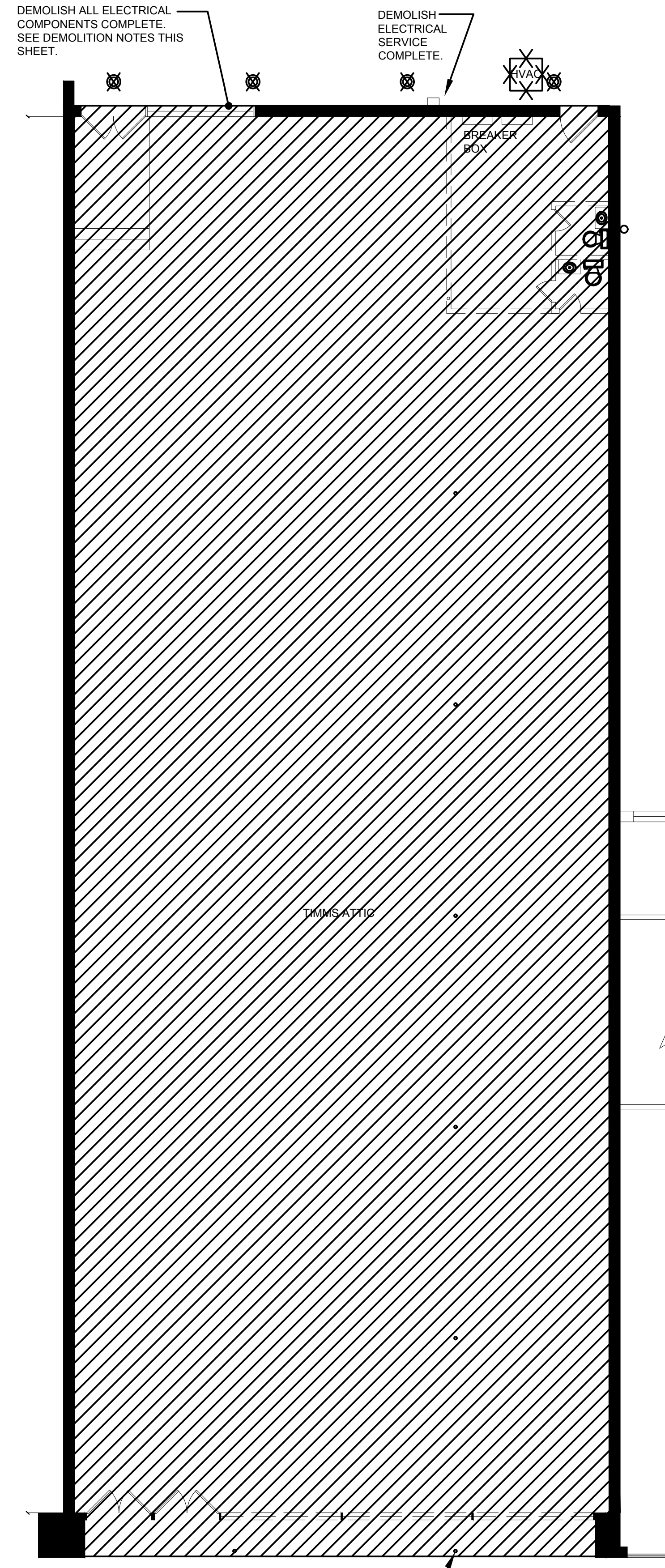
ELECTRICAL
 PLAN -
 DEMOLITION

DATE: 12/2023

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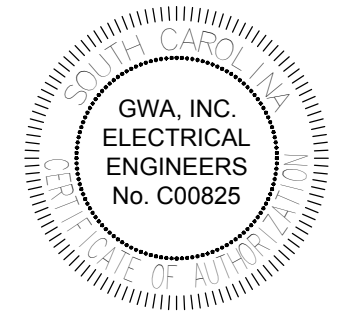
OF 5



ELECTRICAL PLAN - DEMOLITION
 SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

1. BIDDERS SHALL VISIT THE SITE OF WORK PRIOR TO BIDDING AND SHALL INCLUDE IN BID ALL WORK REQUIRED TO PROVIDE NEW WORK AND TO MODIFY EXISTING WORK AS REQUIRED TO CONTINUE IN OPERATION.
2. DEMOLITION WORK SHALL COMPLY WITH ANSI 10.6, NFPA 241, OSHA, AHERA AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL STANDARDS, CODES AND GUIDELINES.
3. CONTRACTOR IS CAUTIONED THAT DEMOLITION PLANS ARE BASED ON RECORD DRAWINGS AND VISUAL FIELD OBSERVATION AND ARE INTENDED TO COMMUNICATE INTENT OF DEMOLITION AND DO NOT INDICATE EVERY COMPONENT OF ELECTRICAL SYSTEMS.
4. OWNER SHALL RETAIN FIRST RIGHT OF REFUSAL ON ELECTRICAL EQUIPMENT BEING DEMOLISHED. PRIOR TO BEGINNING DEMOLITION WORK, CONTRACTOR SHALL WALL DEMOLITION AREA WITH OWNER REPRESENTATIVE AND IDENTIFY ITEMS TO BE REMOVED AND TURNED OVER TO OWNER. ALL SUCH ITEMS SHALL BE CAREFULLY REMOVED, PROTECTED AND DELIVERED TO OWNER.
5. EXISTING RACEWAY AND WIRING SYSTEMS REUSED AS PART OF THIS CONTRACT SHALL BE REWORKED AS REQUIRED TO COMPLY WITH REQUIREMENTS FOR NEW WORK AND CURRENT CODES AND STANDARDS.
6. CONTRACTOR SHALL EXAMINE DEMOLITION AND NEW WORK PLANS FOR ALL TRADES AND INCLUDE IN BID ALL REQUIRED REWORK AND/OR RELOCATION OF EXISTING RACEWAY, JUNCTION BOXES, DEVICES, WIRING SYSTEMS AND THE LIKE AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
7. SEE ARCHITECTURAL DRAWINGS FOR DEMOLITION FLOOR PLAN. EXAMINE WORK TO BE DONE AND PROVIDE ALL ELECTRICAL WORK REQUIRED FOR DEMOLITION.
8. SEE MECHANICAL DRAWINGS FOR EXTENT OF DEMOLITION WORK REQUIRED. REMOVE ELECTRICAL WORK COMPLETE FOR MECHANICAL SYSTEMS BEING REMOVED BY OTHERS. CONTRACTOR IS CAUTIONED THAT THIS EQUIPMENT MAY BE LOCATED OUTSIDE OF GENERAL DEMOLITION AREA (SUCH AS IN MECHANICAL ROOMS, MEZZANINES, ROOFTOP OR SIMILAR LOCATIONS).
9. INCLUDE IN BID ALL WORK REQUIRED FOR TEMPORARY WIRING AND ASSOCIATED ELECTRICAL WORK REQUIRED TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING DEMOLITION PHASE. INTERRUPTIONS IN ANY ELECTRICAL SERVICE OR SYSTEM (POWER, LIGHTING, COMMUNICATION, FIRE ALARM, ETC.) SHALL BE COORDINATED WITH AND APPROVED BY OWNER A MINIMUM OF 48 HOURS PRIOR TO PERFORMING WORK U.N.O.
10. ELECTRICAL DEMOLITION GENERALLY INCLUDES REMOVAL OF EXISTING OUTLETS, DEVICES, AND OTHER ELECTRICAL COMPONENTS. WHERE ALL CIRCUIT LOADS ARE REMOVED, DEMOLISH CIRCUITS BACK TO PANELBOARD(S). WHERE ONLY PORTIONS OF CIRCUIT LOADS ARE REMOVED, REWORK CIRCUITS BY EXTENSION AND RECONNECTION TO CONTINUE REMAINING LOADS IN SERVICE BEYOND THE DEMOLITION AREA.
11. WIRING SYSTEMS SHALL BE REMOVED BACK TO THE SOURCE OF SUPPLY UNLESS NOTED OTHERWISE. CIRCUIT BREAKERS, FUSIBLE SWITCHES, ETC. SUPPLYING LOADS DEMOLISHED AS PART OF THIS CONTRACT SHALL BE LABELED AS SPARE AND SET TO THE OFF POSITION.
12. PROVIDE REVISED CIRCUIT DIRECTORIES IN ALL PANELBOARDS AFFECTED BY NEW OR DEMOLITION WORK. INDICATE ALL LOADS, NEW, SPARE OR MODIFIED.
13. FOR ALL LIGHTING BEING RELOCATED OR NOTED AS EXISTING TO REMAIN, REMOVE, CLEAN, RE-LAMP AND REINSTALL COMPLETE IN LOCATIONS AS INDICATED ON NEW WORK PLANS. PROVIDE NEW CONTROL AS INDICATED.
14. ALL ELECTRICAL COMPONENTS AND DEVICES INDICATED AS TO REMAIN OR TO BE RELOCATED SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION PROCESS AND CLEANED PRIOR TO BEING RESTORED INTO SERVICE.
15. REMOVE ALL EXISTING, ABANDONED WIRING SYSTEMS IN CEILING SPACE, EQUIPMENT ROOMS, SHAFTS, CRAWL SPACES AND SIMILAR CAVITIES OF THE WORK AREA, INCLUDING WIRING, RACEWAYS, BOXES AND SUPPORTS.
16. EXISTING CEILING SYSTEMS ARE BEING REMOVED AND REPLACED IN SOME AREAS UNDER THIS CONTRACT. INCLUDE IN BID ALL WORK AS REQUIRED FOR RELOCATION OF ALL EXISTING CEILING MOUNTED ELECTRICAL DEVICES (FIRE ALARM, SENSORS, CAMERAS, CLOCKS, SPEAKERS, ETC.) TO NEW CEILING SYSTEM. PROVIDE REMOVAL, PROTECTION OF, TEMPORARY SUPPORT AND REINSTALLATION COMPLETE.



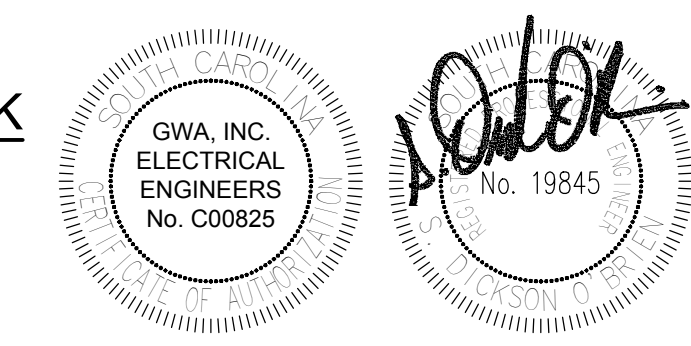
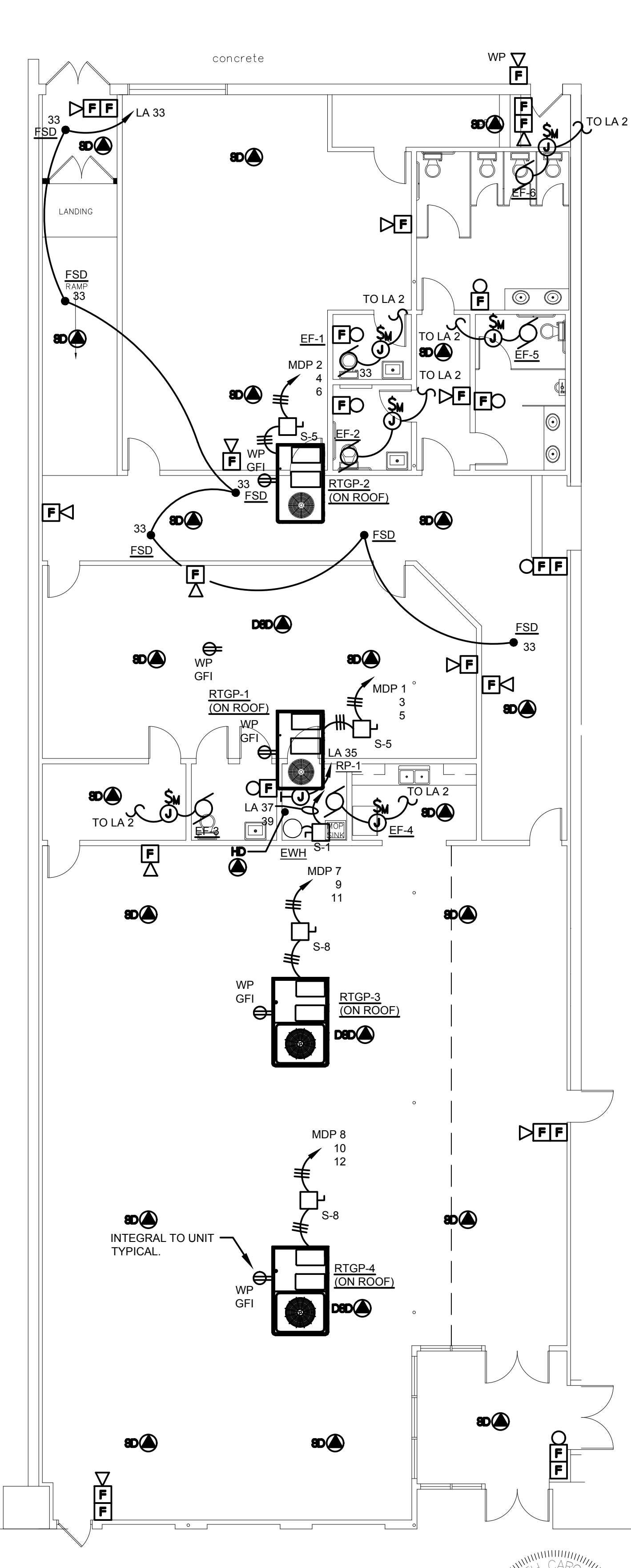
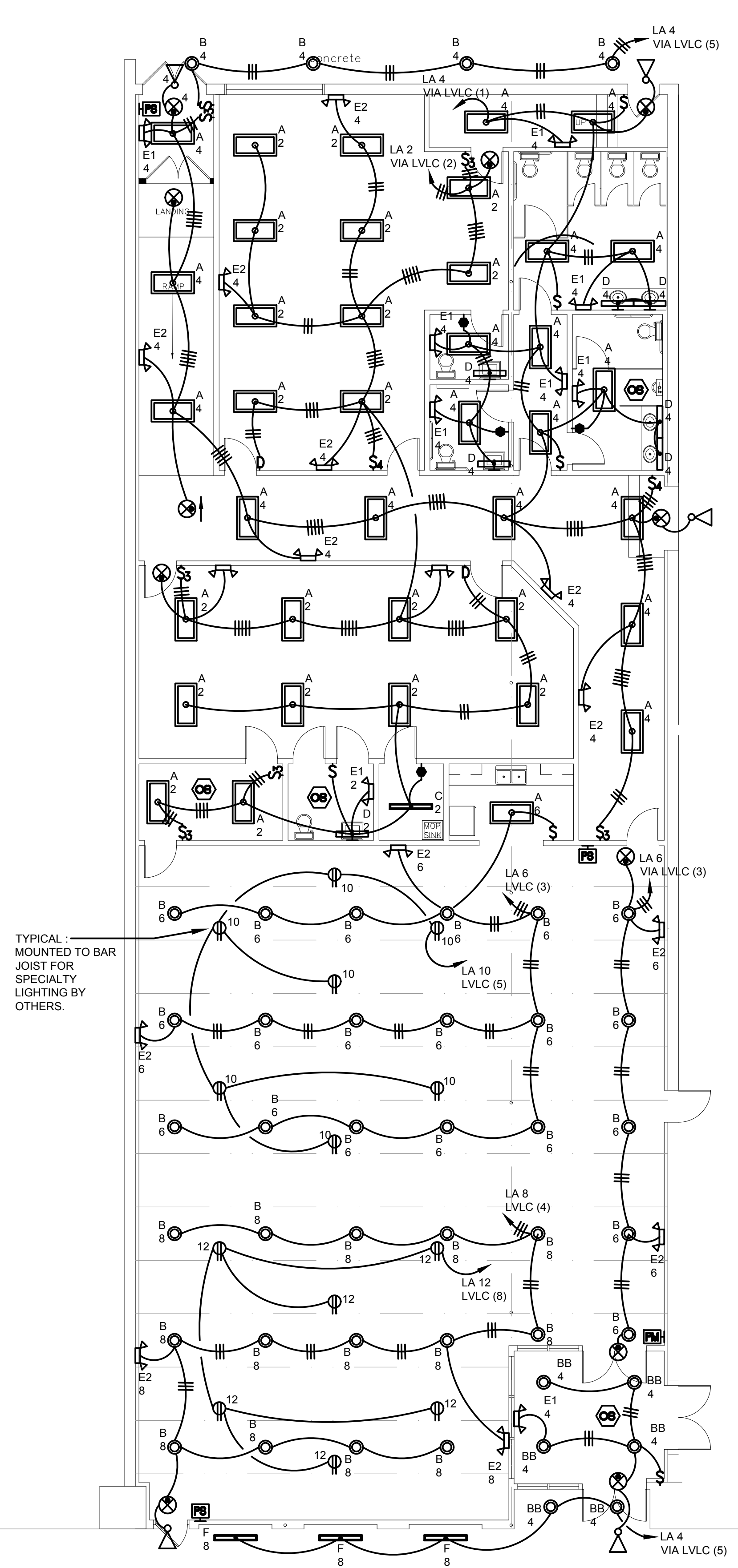
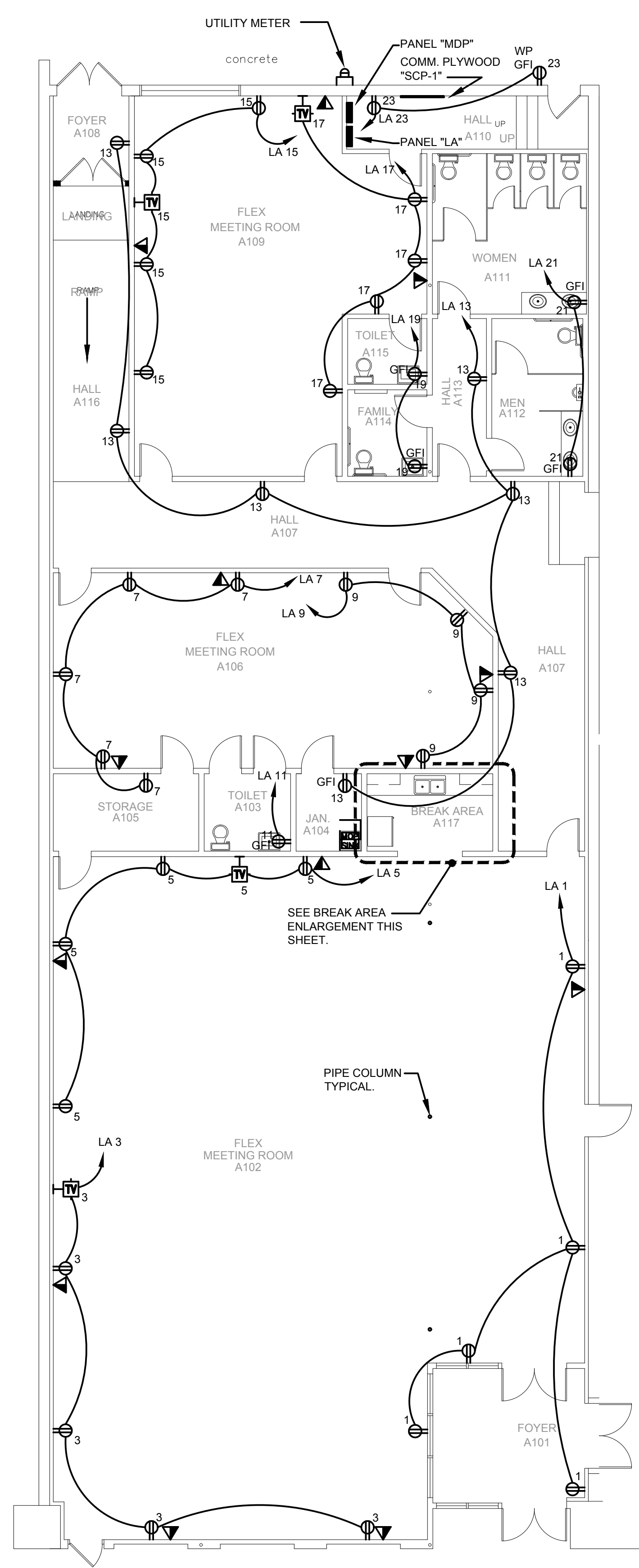
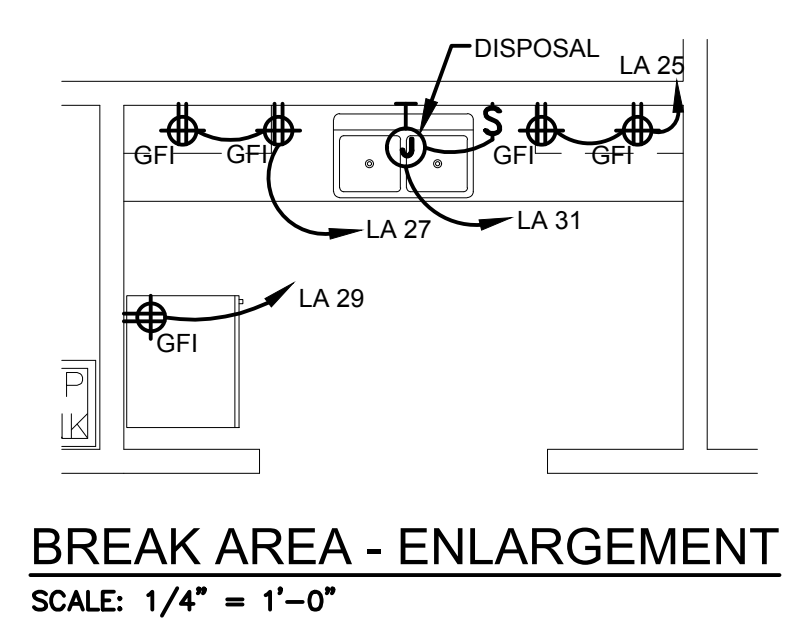
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ELECTRICAL PLANS - NEW WORK

DATE: 12/2023

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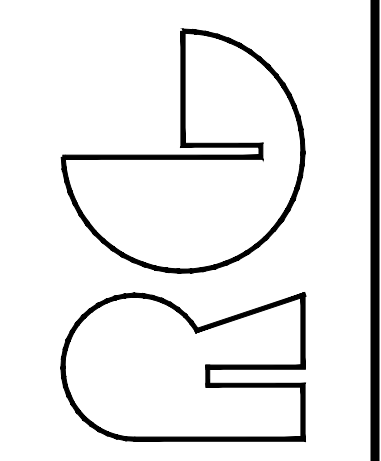
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