Renovations & Additions

MADISON METHODIST CHURCH

1091 Confederate Highway

Madison, Georgia 30650

ALPHA BLDG SET 05-16-2025

BIDDING DOCUMENTS / NOT FOR CONSTRUCTION

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COVER SHEET

Retrofit & Renovations for
Madison Methodist Church
1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P1
DATE:	08.04.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
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DATE:	01.02.25
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DATE:	01.21.25
REVISIONS:	
1	03.24.25
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SHEET

AO.1

OF

ABBREVIATIONS

"E" PRECEEDING THE ABBREVIATIONS BELOW REFERS TO AN EXISTING ITEM.

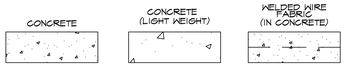
ABV	ABOVE	DBL	DOUBLE	KPL	KICKPLATE	REM	REMOVE
AFF	ABOVE FINISHED FLOOR	DH	DOUBLE HUNG	KIT	KITCHEN	REQD	REQUIRED
AFS	ABOVE FLOOR SLAB	DS	DOWNSPOUT	KO	KNOCKOUT	RES	RESILIENT
AGG	ACCESS	DN	DOWN			RET	RETURN
AC	ACOUSTICAL	DRB	DRAINBOARD			RA	RETURN AIR
ACP	ACOUSTICAL CEILING PANEL	DT	DRAIN TILE	LBL	LABEL	RVS	REVERSE (SIDE)
		DWR	DRAWER	LAB	LABORATORY	REV	REVISION (S), REVISED
ACPL	ACOUSTICAL PLASTER	DWG	DRAWING	LAM	LAMINATE (D)	RH	RIGHT HAND
ACT	ACOUSTICAL CEILING TILE	DF	DRINKING FOUNTAIN	LAV	LAVATORY	ROW	RIGHT OF WAY
				LH	LEFT HAND		RISER
AGR	ACRYLIC PLASTIC			L	LENGTH	RVT	RIVET
ADD	ADDENDUM			LT	LIGHT	RD	ROOF DRAIN
ADH	ADHESIVE	EA	EACH	LTL	LINTEL	RFG	ROOFING
ADJT	ADJACENT	EF	EACH FACE	LL	LIVE LOAD	RM	ROOM
ADJ	ADJUSTABLE	EW	EACH WAY	LVR	LOUVER	RO	ROUGH OPENING
AGG	AGGREGATE	E	EAST	LLV	LONG LEG VERTICAL	RWL	RAIN WATER LEADER
A/C	AIR CONDITIONING	ELEC	ELECTRIC(AL)	LLH	LONG LEG HORIZONTAL		
ALT	ALTERNATE	EP	ELECTRIC PANELBOARD				
AL	ALUMINUM	EWC	ELECTRIC WATER COOLER				
ANC	ANCHOR, ANCHORAGE						
AB	ANCHOR BOLT	EL	ELEVATION			SCH	SCHEDULE
ANOD	ANODIZED	ELEV	ELEVATOR	MH	MANHOLE	SECT	SECTION
APX	APPROXIMATE	EMER	EMERGENCY	MFR	MANUFACTURER	SS	SERVICE SINK
ARCH	ARCHITECT (URAL)	ENC	ENCLOSE (URE)	MKBD	MARKERBOARD	SHTH	SHEATHING
AD	AREA DRAIN	EQ	EQUAL	MRB	MARBLE	SHT	SHEET
ASB	ASBESTOS	EQP	EQUIPMENT	MAS	MASONRY	SIM	SIMILAR
ASPH	ASPHALT	EST	ESTIMATE	MO	MASONRY OPENING	SKL	SKYLIGHT
AUTO	AUTOMATIC	EXH	EXHAUST	MAT	MATERIAL	SC	SOLID CORE
		EXTG	EXISTING	MAX	MAXIMUM	SP	SOUNDPROOF
		EXP	EXPANSION	MECH	MECHANIC (AL)		SOUTH
		EJ	EXPANSION JOINT	MED	MEDIUM	SPK	SPEAKER
BSMT	BASEMENT	EXT	EXTERIOR	MBR	MEMBER	SPL	SPECIAL
BRG	BEARING			MTL	METAL	SPEC	SPECIFICATION (S)
BM	BENCH MARK/BEAM			MWK	MILLWORK	SQ	SQUARE
BEL	BELOW			MIN	MINIMUM		SQUARE INCH
BET	BETWEEN			MIR	MIRROR	SF	SQUARE FEET
BVL	BEVELED	FB	FACE BRICK	MISC	MISCELLANEOUS	SSTL	STAINLESS STEEL
BIT	BITUMINOUS	FOC	FACE OF CONCRETE	MOD	MODULAR	STD	STANDARD
BLK	BLOCK	FOF	FACE OF FINISH	MLD	MOLDING, MOULDING	STA	STATION
BLKG	BLOCKING	FOM	FACE OF MASONRY	MR	MOP RECEPTOR	STL	STEEL
BD	BOARD	FOS	FACE OF STUDS	MT	MOUNT (ED) (ING)	STOR	STORAGE
BS	BOTH SIDES	FBD	FIBERBOARD	MOV	MOVABLE	SD	STORM DRAIN
BW	BOTH WAYS	FGL	FIBERGLASS	MILL	MILLION	STR	STRUCTURE (AL)
BOT	BOTTOM	FIN	FINISH (ED)	MULL	MULLION	SCT	STRUCTURAL CLAY TILE
BRK	BRICK	FFE	FINISH FLOOR ELEVATION			SUSP	SUSPENDED
BRZ	BRONZE					SYM	SYMMETRY (ICAL)
BLDG	BUILDING	FA	FIRE ALARM			SYN	SYNTHETIC
BUR	BUILT UP ROOFING	FBRK	FIRE BRICK			SYS	SYSTEM
		FE	FIRE EXTINGUSHER	NAT	NATURAL		
		FEC	FIRE EXTINGUSHER & CABINET	NOM	NOMINAL		
				N	NORTH		
		FHC	FIRE HOSE CABINET	NIC	NOT IN CONTRACT		
CAB	CABINET	FP	FIREPROOF	NTS	NOT TO SCALE	TKBD	TACKBOARD
CPT	CARPET (ED)	FLG	FLASHING	NO.	NUMBER	TKS	TACKSTRIP
CSMT	CASEMENT	FLX	FLEXIBLE			TEL	TELEPHONE
CI	CAST IRON	FLR	FLOOR (ING)			TV	TELEVISION
CPC	CAST-IN-PLACE CONCRETE	FD	FLOOR DRAIN	OFF	OFFICE	TEMP	TEMPERED
		FPL	FLOOR PLATE	OC	ON CENTER	TC	TERRA COTTA
CST	CAST STONE	FLUR	FLUORESCENT	OPNG	OPENING	TZ	TERRAZZO
CB	CATCH BASIN	FTG	FOOTING	OPP	OPPOSITE	THK	THICK (NESS)
CK	CALK (ING), CAULK (ING)	FND	FOUNDATION	OD	OUTSIDE DIAMETER	THR	THRESHOLD
CLG	CEILING	FR	FRAME (D), (ING)	OA	OVERALL	TA	TOILET ACCESSORY
CEM	CEMENT	FS	FULL SIZE	OH	OVERHEAD	TPTN	TOILET PARTITION
CTR	CENTER	FBO	FURNISHED BY OTHERS			TTD	TOILET TISSUE DISPENSER
CER	CERAMIC	FUR	FURRED (ING)				
CT	CERAMIC TILE	FUT	FUTURE	PNT	PAINT (ED)	TOL	TOLERANCE
CMT	CERAMIC MOSAIC (TILE)			PR	PAIR	T&G	TONGUE AND GROOVE
CKBD	CHALKBOARD			PNL	PANEL	TOS	TOP OF SLAB
CHAM	CHAMFER			PB	PANIC BAR	TSTL	TOP OF STEEL
CR	CHROMIUM (PLATED)			PTD	PAPER TOWEL DISPENSER	TOW	TOP OF WALL
CIR	CIRCLE	GA	GAGE, GAUGE			TB	TOWEL BAR
CIRC	CIRCUMFERENCE	GALV	GALVANIZED	PTR	PAPER TOWEL RECEPTOR	TR	TRANSOM
CLR	CLEAR (ANCE)	GKT	GASKET (ED)	PKG	PARKING		TREAD
CLO	CLOSET	GL	GLASS, GLAZING	PBD	PARTICLE BOARD	TRT-WD	TREATED WOOD
CLS	CLOSURE	GCMU	GLAZED CONCRETE MASONRY UNITS	PTN	PARTITION	TYP	TYPICAL
COL	COLUMN			PVG	PAVING	TOF	TOP OF FOOTING
COMB	COMBINATION	GB	GRAB BAR	PVMT	PAVEMENT		
COMPT	COMPARTMENT	GD	GRADE, GRADING	PERF	PERFORATE (D)		
COMP	COMPOSITION (COMPOSITE)	GRN	GRANITE	PLAS	PLASTER		
		GVL	GRAVEL	PLAM	PLASTIC LAMINATE		
CONC	CONCRETE	GT	GROUT	PL	PLATE	UNFIN	UNFINISHED
CMU	CONCRETE MASONRY UNIT	GYP BD	GYPSUM BOARD	PWD	PLYWOOD	UNO	UNLESS NOTED OTHERWISE
		GYPL	GYPSUM LATH	PT	POINT		
CONST	CONSTRUCTION	GYPPL	GYPSUM PLASTER	PVC	POLYVINYL CHLORIDE	UR	URINAL
CONT	CONTINUOUS, CONTINUE	GYPT	GYPSUM TILE	PCF	POUNDS PER CUBIC FOOT		
CONTR	CONTRACT/CONTRACTOR			PLF	POUNDS PER LINEAL FOOT	VAR	VARNISH(ED)
CLL	CONTRACT LIMIT LINE					VNR	VENEER
CG	CONTROL JOINT			PSF	POUNDS PER SQUARE FOOT	VERT	VERTICAL
CFR	COFFER	HBD	HARDBOARD			VB	VINYL BASE
CJ	CORNER GUARD	HDW	HARDWARE	PSI	POUNDS PER SQUARE INCH	VCT	VINYL COMPOSITION TILE
CORR	CORRIDOR	HWD	HARDWOOD				
CMP	CORRUGATED METAL PIPE	HDR	HEADER	PCC	PRECAST CONCRETE	VT	VINYL TILE
		HTG	HEATING	PFB	PREFABRICATE (D)	VWC	VINYL WALL COVERING
CFL	COUNTERFLASHING	HVAC	HEATING/VENTILATING/AIR CONDITIONING	PTWD	PRESSURE TREATED WOOD		
CS	COUNTERSUNK						
CRS	COURSE (S)	HD	HEAVY DUTY	PFN	PREFINISHED		
CF	CUBIC FOOT	HT	HEIGHT	PRFM	PREFORMED	WSCT	WAINSCOT
CY	CUBIC YARD	HC	HOLLOW CORE	PRL	PROPERTY LINE	WTW	WALL TO WALL
		HM	HOLLOW METAL			WH	WALL HUNG
		HK	HOOK (S)			WC	WATER CLOSET
		HORZ	HORIZONTAL			WP	WATERPROOFING
DPR	DAMPER	HB	HOSE BIBB	QT	QUARRY TILE	WR	WATER REPELLENT
DP	DAMPPROOFING	HWH	HOT WATER HEATER			WS	WATERSTOP
DL	DEAD LOAD					WT	WEIGHT
DKG	DECKING			RAD	RADIUS	WWF	WELDED WIRE FABRIC
DEMO	DEMOLISH, DEMOLITION			RWL	RAINWATER LEADER	W	WIDTH, WIDE, WEST
DMT	DEMOUNT(ABLE)	INCL	INCLUDE (D) (ING)	REF	REFERENCE	WDW	WINDOW
DGA	DENSE GRADE AGGREGATE	ID	INSIDE DIAMETER	RFL	REFLECT (ED)(IVE)(OR)	WG	WIRE GLASS
		INSUL	INSULATE (D) (ION)	REFR	REFRIGERATOR	W/	WITH
DEP	DEPRESSED	INT	INTERIOR	REG	REGISTER	W/O	WITHOUT
DET	DETAIL	INV	INVERT	REINF	REINFORCE (D) (ING)	WD	WOOD
DIAG	DIAGONAL			RCP	REINFORCED CONCRETE PIPE	WB	WOOD BASE
DIA	DIAMETER					WI	WROUGHT IRON
DIM	DIMENSION	JAN	JANITOR				
DIV	DIVIDE/DIVISION	JT	JOINT				
DR	DOOR	JST	JOIST				

ALPHA BLDG SET 05-16-2025

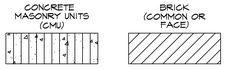
PLAN AND SECTION INDICATIONS

EARTHWORKS

CONCRETE



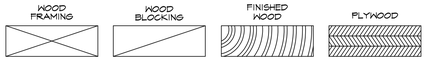
MASONRY



STONE

METAL

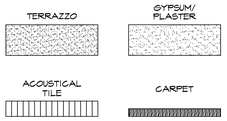
WOOD



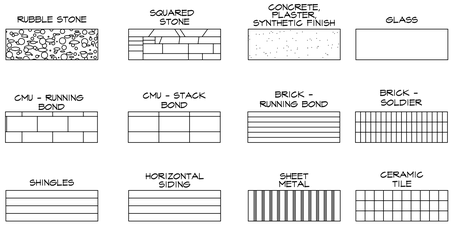
INSULATION

GLASS

FINISHES



ELEVATION INDICATIONS



SYMBOLS

GRAPHIC SYMBOLS

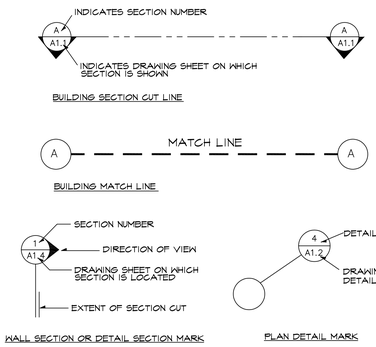
FIRE SEPARATION GENERAL NOTES

1. WHERE PIPING, DUCTWORK, ETC. PASS THRU SMOKE OR FIRE-RATED ASSEMBLIES, THESE AND ALL PENETRATIONS SHALL BE FIRE AND SMOKED STOPPED.

2. ALL SMOKE AND FIRE PARTITIONS OR WALLS SHALL BE CONTINUOUS FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK, UNLESS OTHERWISE NOTED.

FIRE SEPARATION WALL PLAN INDICATIONS

- 4 HOUR RATED WALL
- 3 HOUR RATED WALL
- 2 HOUR RATED WALL
- 1 HOUR RATED WALL
- SMOKE PARTITION



SHEET CONTENTS

SHT NO	SHEET DESCRIPTION
GENERAL	
A01	COVER SHEET
A02	ABBREVIATIONS, SYMBOLS, SHEET INDEX, ETC.
ARCHITECTURAL	
ALS1.1	LIFE SAFETY & CODE COMPLIANCE PLAN: FIRST FLOOR
ALS1.2	LIFE SAFETY & CODE COMPLIANCE PLAN: SECOND FLOOR
AD1.0.1	DEMOLITION PLAN: FIRST FLOOR
AD1.0.2	DEMOLITION PLAN: SECOND FLOOR
~~AD1.1~~	~~DEMOLITION: BUILDING EXTERIOR ELEVATIONS~~
~~AD1.2~~	~~DEMOLITION: BUILDING EXTERIOR ELEVATIONS~~
A1.0.1	OVERALL FIRST FLOOR PLAN: WORSHIP & EDUCATION / PHASE I
A1.0.2	OVERALL SECOND FLOOR PLAN: ADMINISTRATIVE / PHASE I
A1.1.1	FIRST FLOOR PLAN: WORSHIP / PHASE I
A1.1.2	FIRST FLOOR PLAN: FELLOWSHIP HALL / PHASE I
A1.1.3	FIRST FLOOR PLAN: GATHERING / MEZZANINE MECHANICAL /PHASE I
A1.1.4	FIRST FLOOR PLAN: EDUCATION / SOUTH / PHASE I
A1.1.5	FIRST FLOOR PLAN: EDUCATION / NORTH / PHASE I
A2.1	BUILDING EXTERIOR ELEVATIONS
A2.2	BUILDING EXTERIOR ELEVATIONS
A3.1	BUILDING SECTIONS
A4.1	WALL SECTIONS & DETAILS
A4.2	WALL SECTIONS & DETAILS
A6.1	SECTION DETAILS
A7.1	ROOF PLAN
A8.1	OPENINGS SCHEDULES, ETC.
A8.2.1	OPENINGS ELEVATIONS
~~A8.2.1~~	~~OPENINGS DETAILS~~
~~A8.2.2~~	~~OPENINGS DETAILS~~
A9.1.1	FINISH FLOOR PLAN, FINISH SCHEDULE: WORSHIP / FELLOWSHIP HALL
A9.1.2	FINISH FLOOR PLAN, FINISH SCHEDULE: GATHERING
A9.1.3	FINISH FLOOR PLAN, FINISH SCHEDULE: EDUCATION
A9.2.1	REFLECTED CEILING PLAN: WORSHIP / FELLOWSHIP
A9.2.2	REFLECTED CEILING PLAN: GATHERING / EDUCATION
A9.3.0	INTERIOR ELEVATIONS: MOUNTING & LOCATIONS
A9.3.1.1	ENLARGED PLANS / INTERIOR ELEVATIONS: TOILET ROOMS
A9.3.1.2	ENLARGED PLANS / INTERIOR ELEVATIONS: TOILET ROOMS
A9.3.2.1	INTERIOR ELEVATIONS: SANCTUARY
A9.3.2.2	INTERIOR ELEVATIONS: PODIUM
STRUCTURAL	
S0.0.0	GENERAL NOTES
S1.1.1	FOUNDATION PLAN
S2.1.1	FLOOR FRAMING PLAN & SECTIONS
S3.1.1	ROOF FRAMING PLAN
FIRE PROTECTION & PLUMBING	
P0.01	PLUMBING SPECIFICATIONS
P0.02	FIRE PROTECTION SPECIFICATIONS
P1.01	PLUMBING PLAN
P1.02	EAST SIDE OF SANCTUARY PLUMGING PLAN
P2.01	ENLARGED PLUMGING PLANS
MECHANICAL	
M0.01	MECHANICAAL SPECIFICATIONS
M0.02	MECHANICAL SCHEDULES
M0.03	MECHANICAL DETAILS
M1.01	OVERALL FIRST FLOOR MECHANICAL PLAN-PHASE I
M1.02	WORSHIP MECHANICAL PLAN - PHASE I
M1.03	FELLOWSHIP MECHANICAL PLAN - PHASE I
M1.04	GATHERING MECHANICAL PLAN - PHASE I
M1.05	EDUCATION SOUTH MECHANICAL PLAN - PHASE I
M1.06	EDUCATION NORHT MECHANICAL PLAN - PHASE I
M2.01	OVER SECOND FLOOR MECHANICAL PLAN
ELECTRICAL	
E0.1	ELECTRICAL LEGENDS, & SCHEDULES
E0.2	ELECTRICAL SPECIFICATIONS
E1.1	FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
E1.2	SECOND FLOOR PLAN - ELECTRICAL DEMOLITION
E2.1	PARTIAL FIRST FLOOR PLAN - LIGHTING
E2.2	PARTIAL FIRST FLOOR PLAN - LIGHTING
E3.1	PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS
E3.2	PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS
E3.3	SECOND FLOOR PLAN - POWER & SYSTEMS
E4.1	FIRST FLOOR PLAN - A/V SYSTEMS
E5.1	ELECTRICAL DETAILS & SCHEDULES
E5.2	ELECTRICAL DETAILS & COMCHECK REPORTS
CIVIL	CIVIL DRAWINGS ARE UNDER A SEPARATE COVER

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ABBREVIATIONS, SYMBOLS, SHEET INDEX, ETC.

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SHEET

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OF

CODE COMPLIANCE PLAN LEGEND

OL	OCCUPANT LOAD
31 ▶	EGRESS LOAD & DIRECTION
TD-50'-0"	TRAVEL DISTANCE
FEC	FIRE EXTINGUISHER & CABINET: JL INDUSTRIES, INC., TYPE A, UL-RATED 3-A 40 BC 10 LB, WITH COMPATIBLE RECESSED CABINET
FEB	FIRE EXTINGUISHER & BRACKET: JL INDUSTRIES, INC., TYPE A, UL-RATED 3-A 40 BC 10 LB, WITH COMPATIBLE WALL BRACKET
	EXIT LIGHT SIGN (SEE LIGHTING PLANS)
	EMERGENCY LIGHTING APPLIANCE, WALL MOUNTED (SEE LIGHTING PLANS)
	1-HOUR RATED PARTITION
	2-HOUR RATED PARTITION
	3-HOUR RATED PARTITION
	4-HOUR RATED PARTITION

MANDATORY CODES:

2018 INTERNATIONAL BUILDING CODE, WITH GEORGIA AMENDMENTS (2020) (2022) (2024).

2018 INTERNATIONAL EXISTING BUILDING CODE, WITH GEORGIA AMENDMENTS (2021)

2018 INTERNATIONAL FIRE CODE

2018 INTERNATIONAL PLUMBING CODE, WITH GEORGIA AMENDMENTS (2020) (2022) (2023) (2024).

2018 INTERNATIONAL MECHANICAL CODE, WITH GEORGIA AMENDMENTS (2020) (2024).

2018 INTERNATIONAL FUEL GAS CODE, WITH GEORGIA AMENDMENTS (2020) (2022).

2020 NATIONAL ELECTRICAL CODE, WITH GEORGIA AMENDMENTS (2021).

2015 INTERNATIONAL ENERGY CONSERVATION CODE, WITH GEORGIA SUPPLEMENTS & AMENDMENTS (2020) (2022) (2023).

2018 NFPA LIFE SAFETY CODE WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 12-3-3-.04 (72).

2018 NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS.

2019 NFPA 13 FIRE SPRINKLER SYSTEMS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS

GEORGIA ACCESSIBILITY CODE CHAPTER 120-3-20(.01-.08) WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.08 THROUGH .11, - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

CODE REVIEW DATA:

OCCUPANCY TYPE(S): IBC / NFPA 101
- ASSEMBLY (A3) / NEW ASSEMBLY
- BUSINESS B / NEW BUSINESS
- ACCESSORY STORAGE (S2)

CONSTRUCTION TYPE(S): IBC 2018 / NFPA 101 2012
- TYPE VB / V-000
- COMBUSTIBLE / UNPROTECTED / SPRINKLERED

BUILDING LEVELS AND HEIGHTS:
- ONE STORY
- TOP OF HIGHEST WALL / ROOF: 40'-6" +/-

BUILDING AREAS:
ALLOWABLE TABULAR AREA (IBC 2018 TABLE 503)
- ASSEMBLY (A3) / NEW ASSEMBLY: 24,000 GSF ALLOWABLE
  - SANCTUARY/PODIUM/FELLOWSHIP HALL/ASSEMBLY: 18,304 GSF ACTUAL
  - ACCESSORY ASSEMBLY(CLASSROOMS): 2,964 GSF ACTUAL
  - TOTAL ASSEMBLY (A3): 21,268 GSF ACTUAL
- BUSINESS B / NEW BUSINESS: 36,000 GSF ALLOWABLE
  - ADMINISTRATIVE / OFFICES:
    - FIRST FLOOR: 3,659 GSF ACTUAL
    - SECOND FLOOR: 1,244 GSF ACTUAL
  - TOTAL BUSINESS (B): 4,903 GSF ACTUAL
- ACCESSORY STORAGE (S2): 54,000 GSF ALLOWABLE
  - TOTAL STORAGE (S2): 1,128 GSF ACTUAL

TOTAL BUILDING FOOTPRINT: 30,165 GSF

AUTOMATIC SPRINKLER INSTALLATION INCREASE: NOT NEEDED.

FRONTAGE INCREASE CALCULATIONS: NOT NEEDED.

OCCUPANCY LOAD: IBC 2018 / NFPA 101 2012
- ASSEMBLY (A3) / NEW ASSEMBLY:
  - SANCTUARY: 7 NSF/ PERSON: 4,298 NSF / 7 NSF = 614 PERSONS
  - PODIUM/FELLOWSHIP HALL: 4,800 NSF / 15 NSF = 320 PERSONS
  - ASSEMBLY: 1,842 NSF / 7 NSF = 264 PERSONS
  - ACCESSORY ASSEMBLY(CLASSROOMS): 2,964 NSF / 15 NSF = 198 PERSONS
  - TOTAL ASSEMBLY (A3): 1,396 PERSONS
- BUSINESS B / NEW BUSINESS:
  - ADMINISTRATIVE / OFFICES:
    - FIRST FLOOR: 3,659 GSF / 150 SF = 25 PERSONS
    - SECOND FLOOR: 1,244 GSF / 150 SF = 9 PERSONS
  - TOTAL BUSINESS (B): 34 PERSONS
- ACCESSORY STORAGE (S2):
  - ACCESSORY STORAGE: 1,128 NSF / 500 SF = 3 PERSONS
- TOTAL OCCUPANT LOAD: 1,406 PERSONS

EGRESS WIDTH REQUIRED / PROVIDED:
0.2" / PERSON X 1,406 PERSONS = 283" REQUIRED / 504" PROVIDED

SEE CODE COMPLIANCE PLAN FOR EGRESS / EXITING

TRAVEL DISTANCES: IBC 2018 / NFPA 101 2012
- ASSEMBLY (A3): 250' / NEW ASSEMBLY: 250' ALLOWED.
- BUSINESS (B): 300' / NEW BUSINESS: 300' ALLOWED.

PLUMBING FIXTURE CALCULATIONS IPC 2018

ASSEMBLY (A3): TOTAL LOAD: 1,396 PERSONS
- -WATER CLOSETS
  - MALES: 698/150 = 4.66 / 5 REQUIRED
  - FEMALES: 698/75 = 9,31 / 10 REQUIRED
- -LAVATORIES
  - MALES: 698/200 = 3.49 / 4 REQUIRED
  - FEMALES: 698/200 = 3.49 / 4 REQUIRED

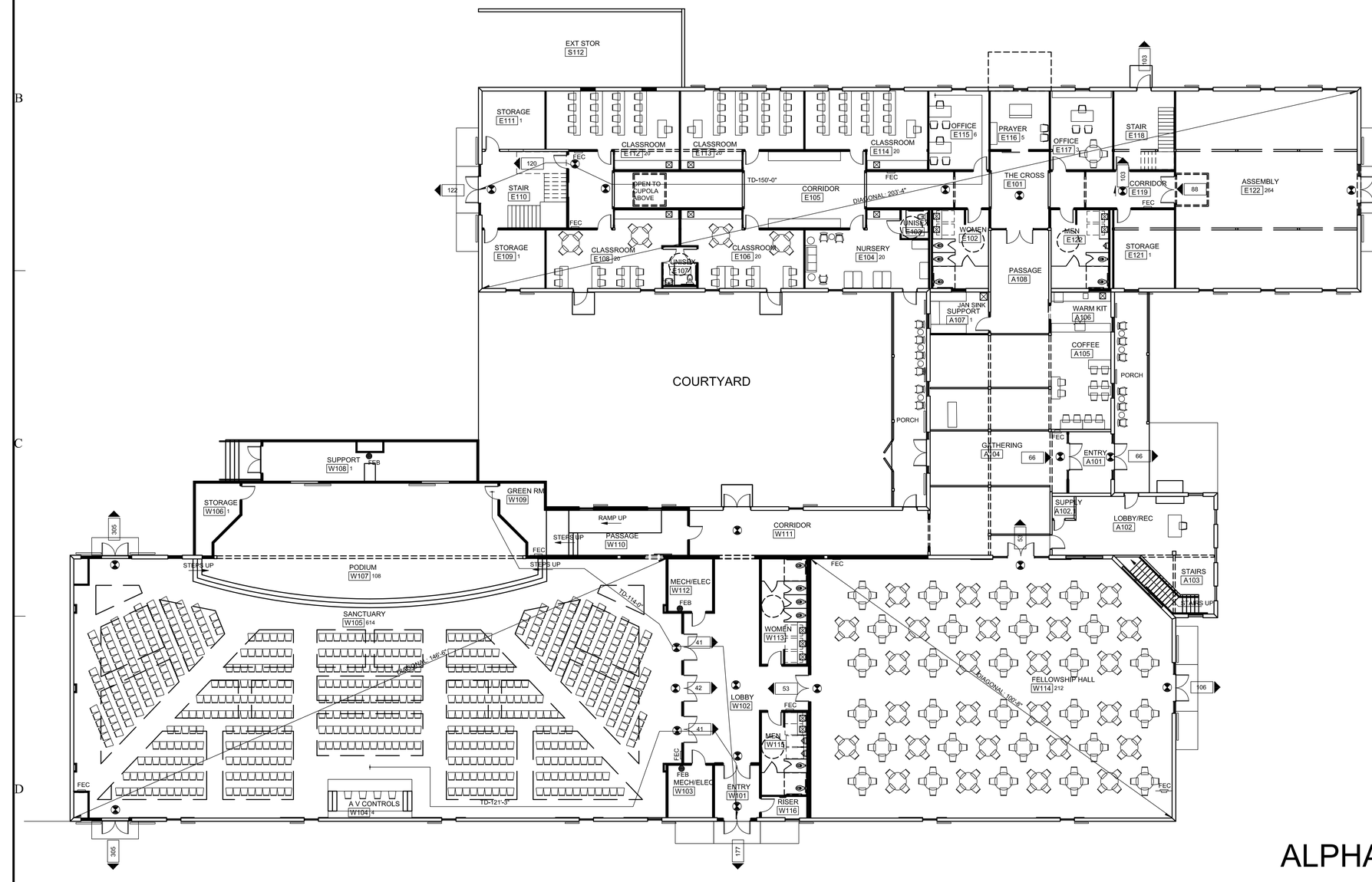
BUSINESS (B): 34 PERSONS
- -WATER CLOSETS (1/25 - 1/50): 41/25 = 1.64 / 2 REQUIRED
  - MALES: 17/25 = 1.0 REQUIRED
  - FEMALES: 17/25 = 1.0 REQUIRED
- -LAVATORIES (1/40 - 1/80):
  - MALES: 17/40 = 0.425 / 1.0 REQUIRED
  - FEMALES: 17/40 = 0.425 / 1.0 REQUIRED

ACCESSORY STORAGE: 3 PERSONS
- -WATER CLOSETS (1/100): 3/100 = 0.03 / 1 REQUIRED
- -LAVATORIES (1/100): 3/100 = 0.03 / 1 REQUIRED

DRINKING FOUNTAINS: 1,406/1000 = 1.41 / 2 REQUIRED / 2 PROVIDED

JAN. SINKS: 1 REQUIRED / 1 PROVIDED (EXISTING)

PLUMBING FIXTURE TABULATIONS
PROVIDED TOTALS
- WATER CLOSETS: 4 M / 7 F / 4 U = 15 TOTAL
- URINALS: 3 M= 3 TOTAL
- LAVS: 4 M / 5 F / 4U = 13 TOTAL
- D.F.: 2 TOTAL



ALPHA BLDG SET 05-16-2025

PROJ NORTH

CODE COMPLIANCE & LIFE SAFETY PLAN: FIRST FLOOR

SCALE: 3/32" = 1'-0"

SCALE IN FEET

GM Architect
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ARCHITECT

STATE OF GEORGIA — GARY L. McNUTT — CERTIFICATE NO. 020650 — REGISTERED ARCHITECT

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CONSULTANT

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SUNBELT BUILDERS
10641 HIGHWAY 36
COVINGTON, GA 30014
770.786.3031

CODE COMPLIANCE & LIFE SAFETY PLAN

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P1
DATE:	08.04.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
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CODE COMPLIANCE PLAN LEGEND

OL	OCCUPANT LOAD
31	EGRESS LOAD & DIRECTION
TD-50'-0"	TRAVEL DISTANCE
FEC	FIRE EXTINGUISHER & CABINET: JL INDUSTRIES, INC., TYPE A, UL-RATED 3-A 40 BC 10 LB, WITH COMPATIBLE RECESSED CABINET
FEB	FIRE EXTINGUISHER & BRACKET: JL INDUSTRIES, INC., TYPE A, UL-RATED 3-A 40 BC 10 LB, WITH COMPATIBLE WALL BRACKET
	EXIT LIGHT SIGN (SEE LIGHTING PLANS)
	EMERGENCY LIGHTING APPLIANCE, WALL MOUNTED (SEE LIGHTING PLANS)
	1-HOUR RATED PARTITION
	2-HOUR RATED PARTITION
	3-HOUR RATED PARTITION
	4-HOUR RATED PARTITION

MANDATORY CODES:

2018 INTERNATIONAL BUILDING CODE, WITH GEORGIA AMENDMENTS (2020) (2022) (2024).

2018 INTERNATIONAL EXISTING BUILDING CODE, WITH GEORGIA AMENDMENTS (2021)

2018 INTERNATIONAL FIRE CODE

2018 INTERNATIONAL PLUMBING CODE, WITH GEORGIA AMENDMENTS (2020) (2022) (2023) (2024).

2018 INTERNATIONAL MECHANICAL CODE, WITH GEORGIA AMENDMENTS (2020) (2024).

2018 INTERNATIONAL FUEL GAS CODE, WITH GEORGIA AMENDMENTS (2020) (2022).

2020 NATIONAL ELECTRICAL CODE, WITH GEORGIA AMENDMENTS (2021).

2015 INTERNATIONAL ENERGY CONSERVATION CODE, WITH GEORGIA SUPPLEMENTS & AMENDMENTS (2020) (2022) (2023).

2018 NFPA LIFE SAFETY CODE WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 12-3-3-.04 (72).

2018 NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS.

2019 NFPA 13 FIRE SPRINKLER SYSTEMS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS

GEORGIA ACCESSIBILITY CODE CHAPTER 120-3-20(.01-.08) WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.08 THROUGH .11, - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

CODE REVIEW DATA:

OCCUPANCY TYPE(S): IBC / NFPA 101
- ASSEMBLY (A3) / NEW ASSEMBLY
- BUSINESS B / NEW BUSINESS
- ACCESSORY STORAGE (S2)

CONSTRUCTION TYPE(S): IBC 2018 / NFPA 101 2012
- TYPE VB / V-000
- COMBUSTIBLE / UNPROTECTED / SPRINKLERED

BUILDING LEVELS AND HEIGHTS:
- ONE STORY
- TOP OF HIGHEST WALL / ROOF: 40'-6" +/-

BUILDING AREAS:
ALLOWABLE TABULAR AREA (IBC 2018 TABLE 503)
- ASSEMBLY (A3) / NEW ASSEMBLY: 24,000 GSF ALLOWABLE
  - SANCTUARY/PODIUM/FELLOWSHIP HALL/ASSEMBLY: 18,304 GSF ACTUAL
  - ACCESSORY ASSEMBLY(CLASSROMS): 2,964 GSF ACTUAL
  - TOTAL ASSEMBLY (A3): 21,268 GSF ACTUAL
- BUSINESS B / NEW BUSINESS: 36,000 GSF ALLOWABLE
  - ADMINISTRATIVE / OFFICES:
    - FIRST FLOOR: 3,659 GSF ACTUAL
    - SECOND FLOOR: 1,244 GSF ACTUAL
  - TOTAL BUSINESS (B): 4,903 GSF ACTUAL
- ACCESSORY STORAGE (S2): 54,000 GSF ALLOWABLE
  - TOTAL STORAGE (S2): 1,128 GSF ACTUAL

TOTAL BUILDING FOOTPRINT: 30,165 GSF

AUTOMATIC SPRINKLER INSTALLATION INCREASE: NOT NEEDED.

FRONTAGE INCREASE CALCULATIONS: NOT NEEDED.

OCCUPANCY LOAD: IBC 2018 / NFPA 101 2012
- ASSEMBLY (A3) / NEW ASSEMBLY:
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- ACCESSORY STORAGE: 3 PERSONS
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JAN. SINKS: 1 REQUIRED / 1 PROVIDED (EXISTING)

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- PROVIDED TOTALS
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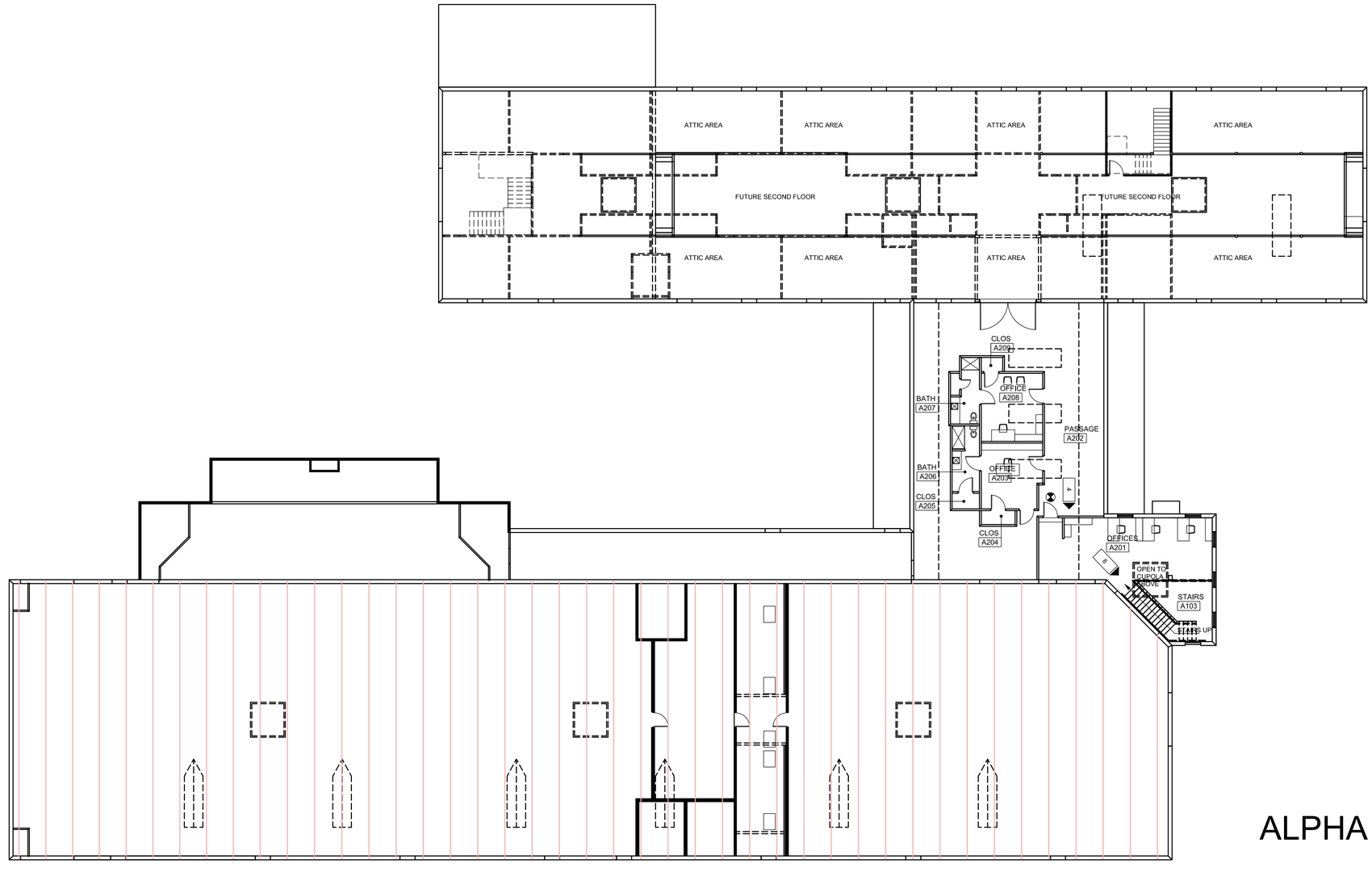

ALPHA BLDG SET 05-16-2025

PROJ NORTH

CODE COMPLIANCE & LIFE SAFETY PLAN: SECOND FLOOR

SCALE: 3/32" = 1'-0"

SCALE IN FEET

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CODE COMPLIANCE & LIFE SAFETY PLAN

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway, Madison, Georgia 30650

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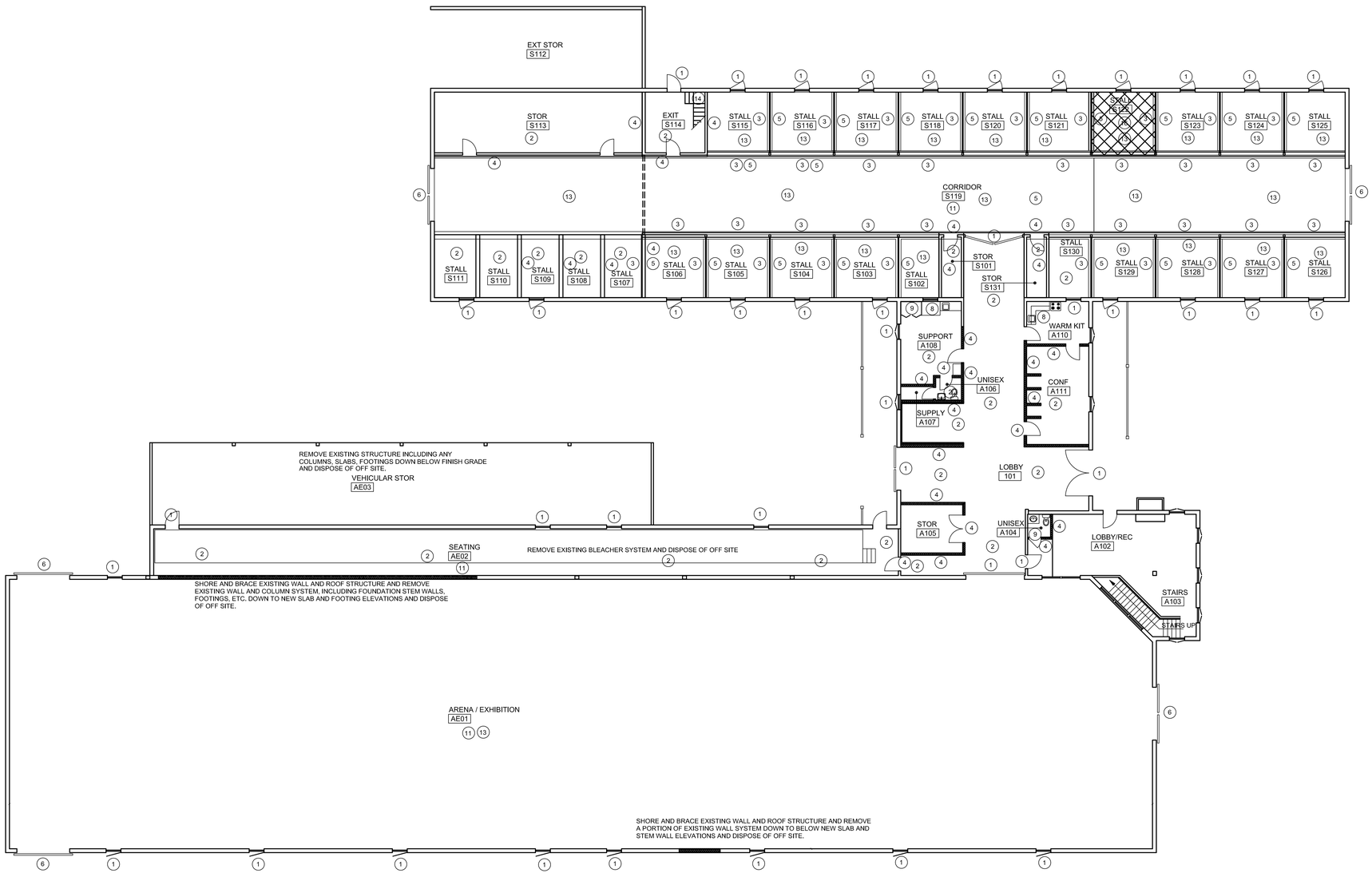
SHEET

ALS1.2

OF



GENERAL DEMOLITION NOTES

A. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CODES LISTED ON SHEET AL$1.1 AND CURRENT EDITIONS OF ALL OTHER APPLICABLE LOCAL CODES, ORDINANCES, SUBDIVISION REGULATIONS, AND COVENANTS AND REQUIREMENTS.

B. REMOVE OF DEMOLITION ITEMS MEANS DEMOLITION, REMOVAL AND LEGALLY TRANSPORTING AND DISPOSING OFF-SITE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.

C. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, NOTIFY OWNER AND/OR ARCHITECT IMMEDIATELY.

D. PROVIDE, ERECT AND MAINTAIN EFFECTIVE BARRICADES, DANGER SIGNALS AND SIGNS IN LOCATIONS WHERE REQUIRED FOR THE PROTECTION OF THE WORK AND THE SAFETY OF THE WORKERS AND THE PUBLIC.

E. MAINTAIN EXISTING UTILITIES, INDICATED TO REMAIN. KEEP IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS.

F. PROVIDE MATERIALS, LABOR, AND EQUIPMENT NOT SPECIFICALLY INDICATED BUT NECESSARY FOR DEMOLITION AND PROPER INSTALLATION OF NEW MATERIALS AND PROPER COMPLETION OF THIS CONTRACT.

PLAN DEMOLITION NOTES

1. REMOVE EXISTING WINDOW, LOUVER, STOREFRONT, DOOR ASSEMBLIES, AND ASSOCIATED HARDWARE, ETC. AND DISPOSE OF OFF SITE.

2. REMOVE EXISTING CONCRETE FLOOR SLAB INCLUDING BRICK, RUBBER TILE AND SUB-GRADE MATERIAL DOWN TO NEW SUB-GRADE ELEVATION AND DISPOSE OF OFF SITE.

3. REMOVE EXISTING CONCRETE STRIP WALL FOOTINGS INCLUDING SUB-GRADE MATERIAL DOWN TO NEW SUB-GRADE ELEVATION AND DISPOSE OF OFF SITE. FIXTURES, VENT PIPES, CONDUIT, ETC. AND DISPOSE OF OFF SITE.

4. SHORE AND BRACE EXISTING FLOOR AND OR ROOF STRUCTURE AND REMOVE EXISTING WALL ASSEMBLEY, INCLUDING ASSOCIATED DOOR AND WINDOW ASSEMBLIES THEREIN, AND DISPOSE OF OFF SITE.

5. REMOVE EXISTING STALL WALL ASSEMBLY, INCLUDING ASSOCIATED DOOR AND WINDOW ASSEMBLIES THEREIN, AND DISPOSE OF OFF SITE.

6. REMOVE EXISTING BARN DOOR ASSEMBLY, INSPECT, REPLACE ANY DETERIORATED PORTIONS AND RE-USE (RE-INSTALL) AS SHOWN.

7. REMOVE EXISTING CABINETRY AND DISPOSE OF OFF SITE.

8. REMOVE EXISTING CABINETRY INCLUDING SINK AND ASSOCIATED SUPPLY AND WASTE PIPING AND DISPOSE OF OFF SITE. CAP ALL SUPPLY AND WASTE LINES.

9. REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED SUPPLY AND WASTE PIPING AND DISPOSE OF OFF SITE. CAP ALL SUPPLY AND WASTE. LINES.

10. REMOVE EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK, PIPING, CONDUIT, ETC. AND DISPOSE OF OFF SITE.

11. REMOVE EXISTING ELECTRICAL EQUIPMENT AND LIGHT FIXTURES AND ASSOCIATED CONDUIT, PANELS, SWITCHES, OUTLETS, ETC. AND DISPOSE OF OFF SITE.

13. REMOVE EXISTING GRADE MATERIAL DOWN TO BELOW NEW SUB-GRADE ELEVATIONS AND DISPOSE OF OFF SITE

14. REMOVE EXISTING WOOD STAIR SYSTEM AND DISPOSE OF OFF SITE.

15. REMOVE EXISTING ROOF DORMER, INCLUDING WINDOW UNIT, ETC., AND DISPOSE OF OFF SITE.

16. REMOVE A PORTION OF EXISTING CEILING/ FLOOR STRUCTURE TO ALLOW INSTALLATION OF NEW STAIR SYSTEM. DISPOSE OF OFF SITE.

ALPHA BLDG SET 05-16-2025

PROJ. NORTH

OVERALL FIRST FLOOR PLAN: ARENA & STABLES

SCALE: 3/32"" = 1'-0"

SCALE IN FEET

GM
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DEMOLITION PLAN: FIRST FLOOR

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

JOB NO.:	02405
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CHECKED BY:	GM
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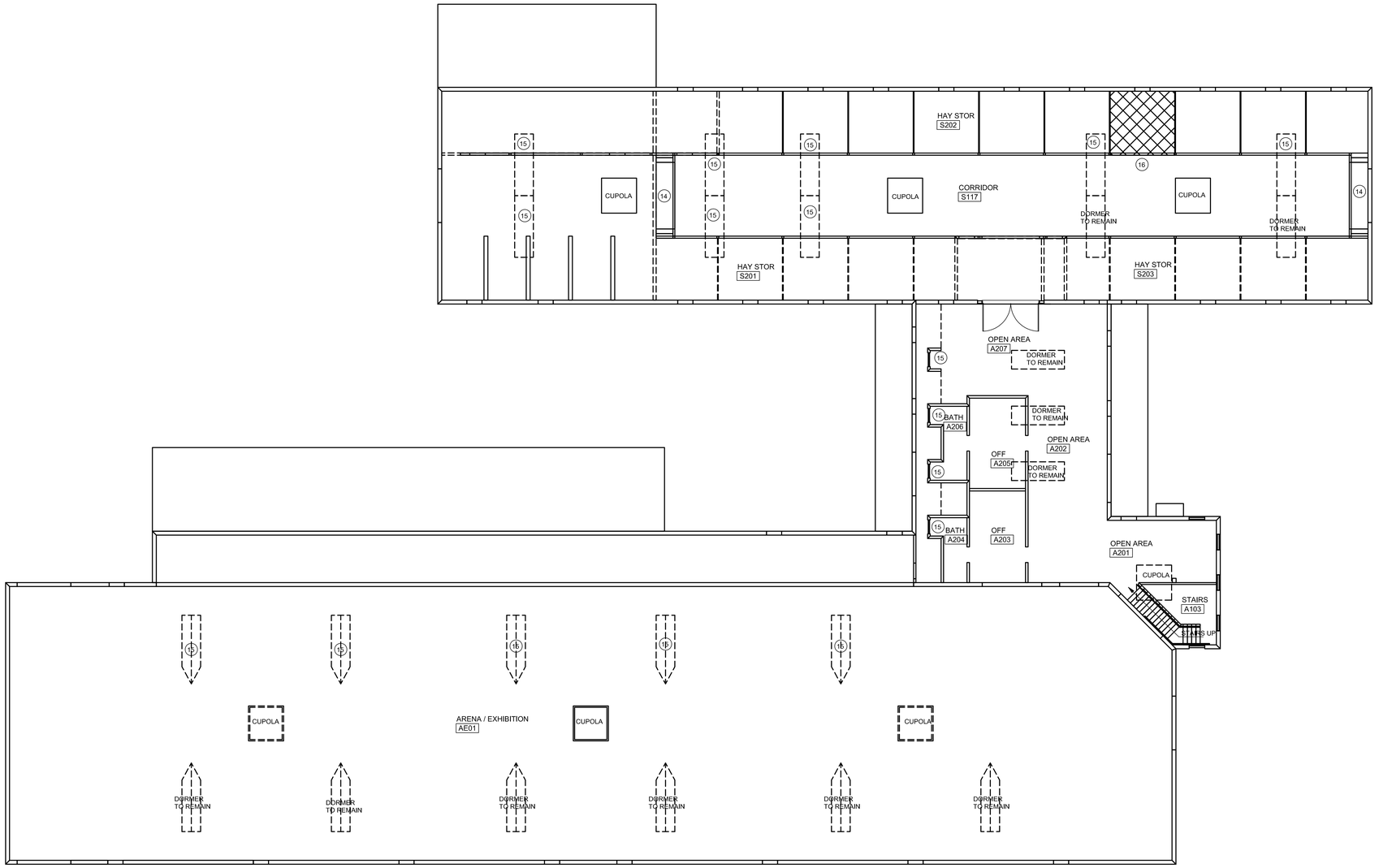

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PLAN DEMOLITION NOTES

1. REMOVE EXISTING WINDOW, LOUVER, STOREFRONT, DOOR ASSEMBLIES, AND ASSOCIATED HARDWARE, ETC. AND DISPOSE OF OFF SITE.

2. REMOVE EXISTING CONCRETE FLOOR SLAB INCLUDING BRICK, RUBBER TILE AND SUB-GRADE MATERIAL DOWN TO NEW SUB-GRADE ELEVATION AND DISPOSE OF OFF SITE.

3. REMOVE EXISTING CONCRETE STRIP WALL FOOTINGS INCLUDING SUB-GRADE MATERIAL DOWN TO NEW SUB-GRADE ELEVATION AND DISPOSE OF OFF SITE. FIXTURES, VENT PIPES, CONDUIT, ETC. AND DISPOSE OF OFF SITE.

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5. REMOVE EXISTING STALL WALL ASSEMBLY, INCLUDING ASSOCIATED DOOR AND WINDOW ASSEMBLIES THEREIN, AND DISPOSE OF OFF SITE.

6. REMOVE EXISTING BARN DOOR ASSEMBLY. INSPECT, REPLACE ANY DETERIORATED PORTIONS AND RE-USE (RE-INSTALL) AS SHOWN.

7. REMOVE EXISTING CABINETRY AND DISPOSE OF OFF SITE.

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PROJ NORTH

OVERALL SECOND FLOOR PLAN: ARENA & STABLES

SCALE: 3/32"" = 1'-0"

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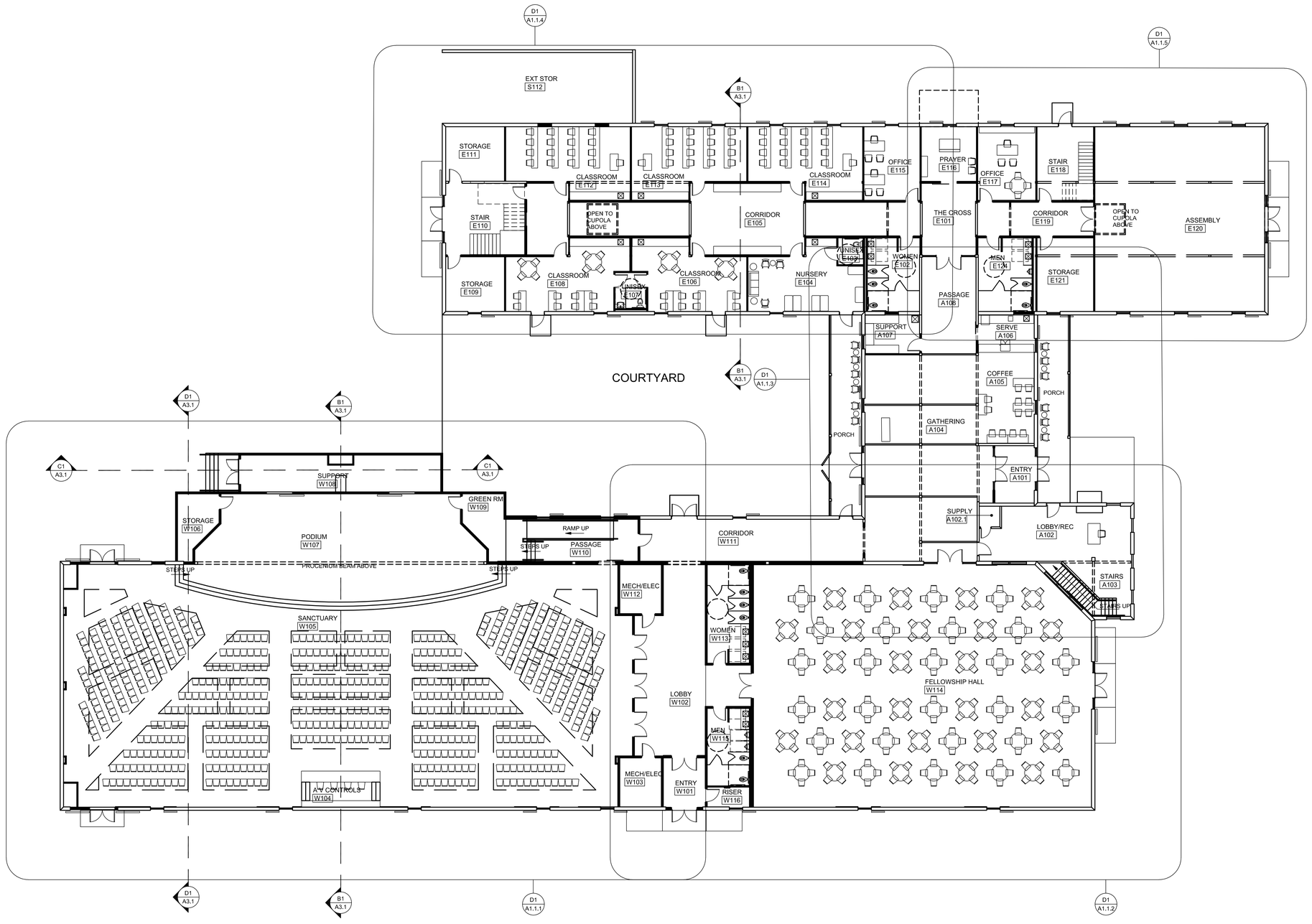

PARTITION TYPES

WOOD FRAMING PARTITIONS

6.4.1 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY WITH SOUND ATTENUATION INSULATION.

6.4.2 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH FACES & SOUND ATTENUATION INSULATION.

6.4.3 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY. & SOUND ATTENUATION INSULATION.

6.4.4 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8"TYPE "X" GYPSUM BOARD ON EACH FACE. (UL DESIGN NO. U305) & SOUND ATTENUATION INSULATION.

6.4.5 2X4 WOOD STUDS AT 16" O. C. WITH 2 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE W/ THERMAL INSULATION R13. (UL DESIGN NO. U301)

6.6.1 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY. WITH SOUND ATTENUATION INSULATION.

6.6.2 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTH FACES. & SOUND ATTENUATION INSULATION.

6.6.3 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY. & SOUND ATTENUATION INSULATION.

6.6.4 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTH SIDES. (UL DESIGN NO. U305) & SOUND ATTENUATION INSULATION.

6.6.5 2X6 WOOD STUDS AT 16" O. C. WITH 2 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE W/ WITH THERMAL INSULATION R19. (UL DESIGN NO. U301)

6.8.1 2X8 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY. WITH SOUND ATTENUATION INSULATION.

6.8.2 2X8 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH FACES. & SOUND ATTENUATION INSULATION.

6.8.3 2X8 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY. & SOUND ATTENUATION INSULATION.

6.8.4 2X8 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTH SIDES. (UL DESIGN NO. U305) & SOUND ATTENUATION INSULATION.

6.8.5 2X8 WOOD STUDS AT 16" O. C. WITH 2 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE W/ WITH THERMAL INSULATION R19. (UL DESIGN NO. U301)

GENERAL PARTITIONS NOTES:

(1) ALL PARTITIONS TO TERMINATE AT BOTTOM OF CEILING JOIST OR AT BOTTOME OF ROOF SHEATHING U. O. N.

(2) ALL FIRE RATED WALLS & PARTITIONS TO TERMINATE AT BOTTOM OF FLOOR / CEILING JOISTS AND BOTTOM OF ROOF SHEATHING. FLOOR TO THE UNDERSIDE OF THE ROOF OR FIRE RATED FLOOR DECK WITH ALL OPENINGS SEALED TIGHT.

(3) RATED WALL CONSTRUCTION THAT EXTENDS FROM THE FLOOR TO THE UNDERSIDE OF FLOOR / CEILING JOISTS OR ROOF SHEATHING SHALL BE FIRE-SEALED TIGHT.

(4) FIRE STOP SYSTEMS AND DEVICES: PENETRATIONS FOR CABLES, CABLE TRAYS, CONDUITS, PIPES, TUBES, COMBUSTION VENTS AND EXHAUST VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS INTO OR THROUGH A WALL, FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A FIRE BARRIER SHALL BE PROTECTED BY A FIRE STOP SYSTEM OR DEVICE. LIFE SAFETY CODE SECTION 8.3.5.1 OF THE 2018 EDITION. FIRE STOP SYSTEMS SHALL HAVE A MINIMUM OF ONE (1) HOUR F RATING, BUT NOT LESS THAN THE REQUIRED FIRE RESISTIVE RATING OF THE FIRE BARRIER PENETRATED. SECTION 8.3.5.1.3. PENETRATIONS IN FIRE RATED HORIZONTAL ASSEMBLIES SHALL HAVE A MINIMUM ONE (1) HOUR T RATING, BUT NOT LESS THAN THE FIRE RESISTIVE RATING OF THE HORIZONTAL ASSEMBLY, SECTION 8.3.5.1.4. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS.

(5) IDENTIFICATION OF FIRE BARRIERS SHALL BE BY SIGNS OR STENCILING PERMANENTL INSTALLED ON ALL RATED BARRIERS OR WALLS, ABOVE ANY DECORATIVE CEILING AND/OR IN CONCEALED SPACES. THE LETTERING SHALL BE 2" IN HEIGHT AND SPACED EVERY 12 FEET. THE FOLLOWING WORDING IS RECOMMENDED; "ONE 1 (OR TWO-2) HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS."

ALPHA BLDG SET 05-16-2025

PROJ NORTH

OVERALL FIRST FLOOR PLAN: WORSHIP & EDUCATION-PHASE I

SCALE: 3/32"" = 1'-0"

SCALE IN FEET 0 5' 10'

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ARCHITECT

STATE OF GEORGIA GARY L. MCNUTT CERTIFICATE NO. 020 REGISTERED ARCHITECT

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CONSULTANT

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SUNBELT BUILDERS
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COVINGTON, GA 30014
770.786.3031

FIRST FLOOR PLAN

Retrofit & Renovations for
Madison Methodist Church
1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P1
DATE:	08.04.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW
DATE:	01.02.25
DESCRIPTION:	BID-CONSTRUCTION
DATE:	01.21.25
REVISIONS:	
1	03.24.25
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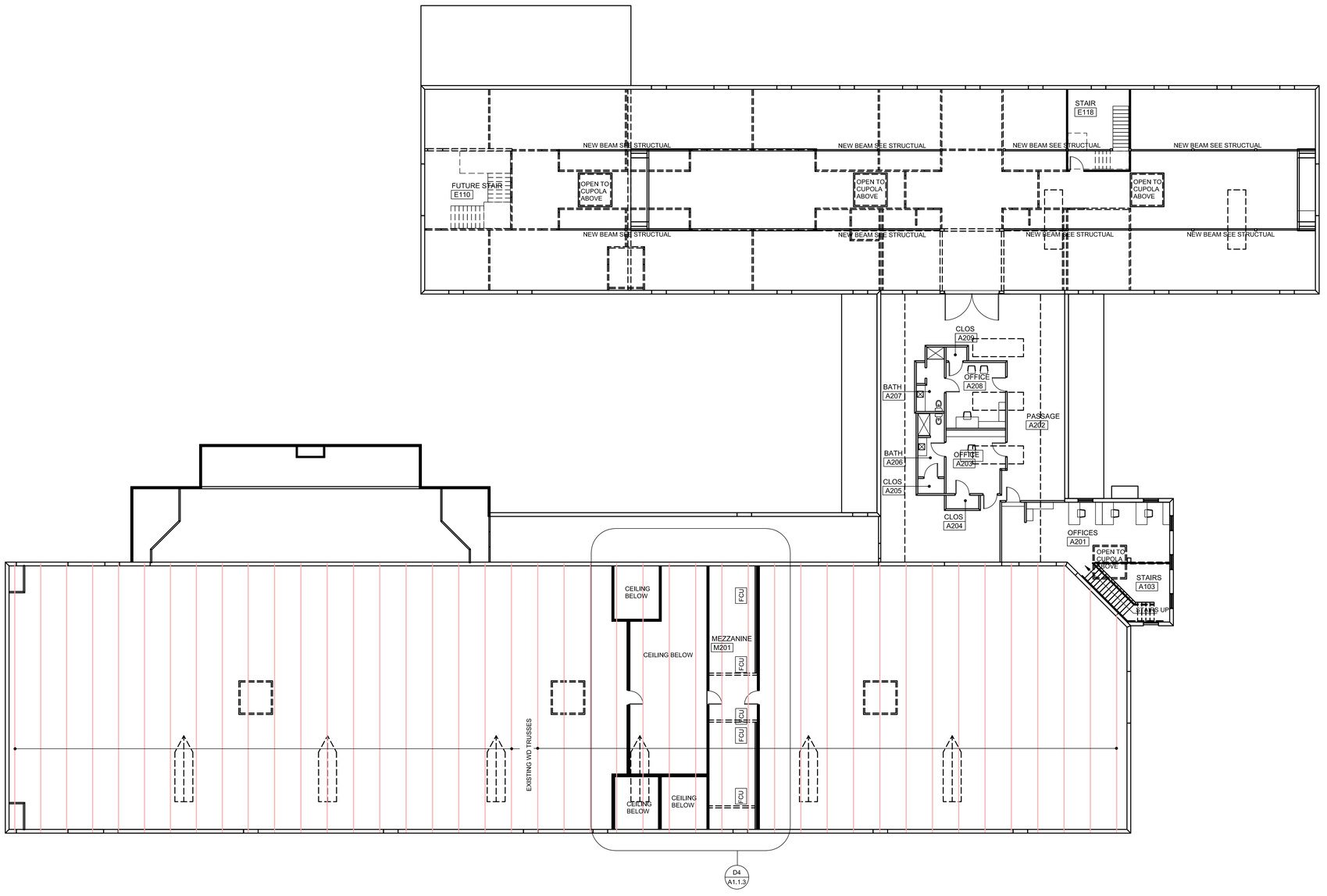

ALPHA BLDG SET 05-16-2025

PROJ NORTH

OVERALL SECOND FLOOR PLAN: ADMINISTRATIVE-PHASE I

SCALE: 3/32"" = 1'-0"

SCALE IN FEET

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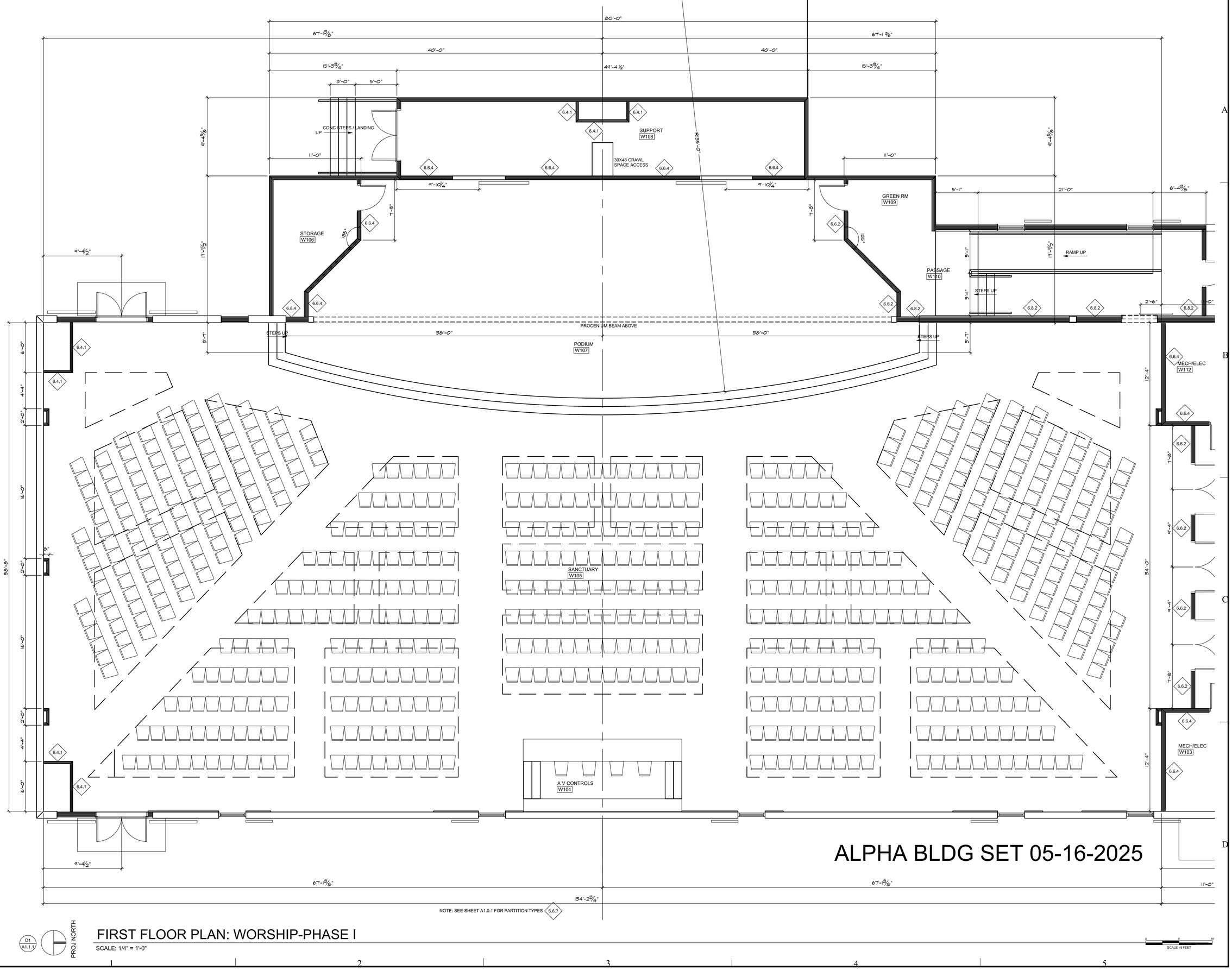

D1
A1.1.1

PROJ NORTH

FIRST FLOOR PLAN: WORSHIP-PHASE I

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

0 8" 16"
SCALE IN FEET

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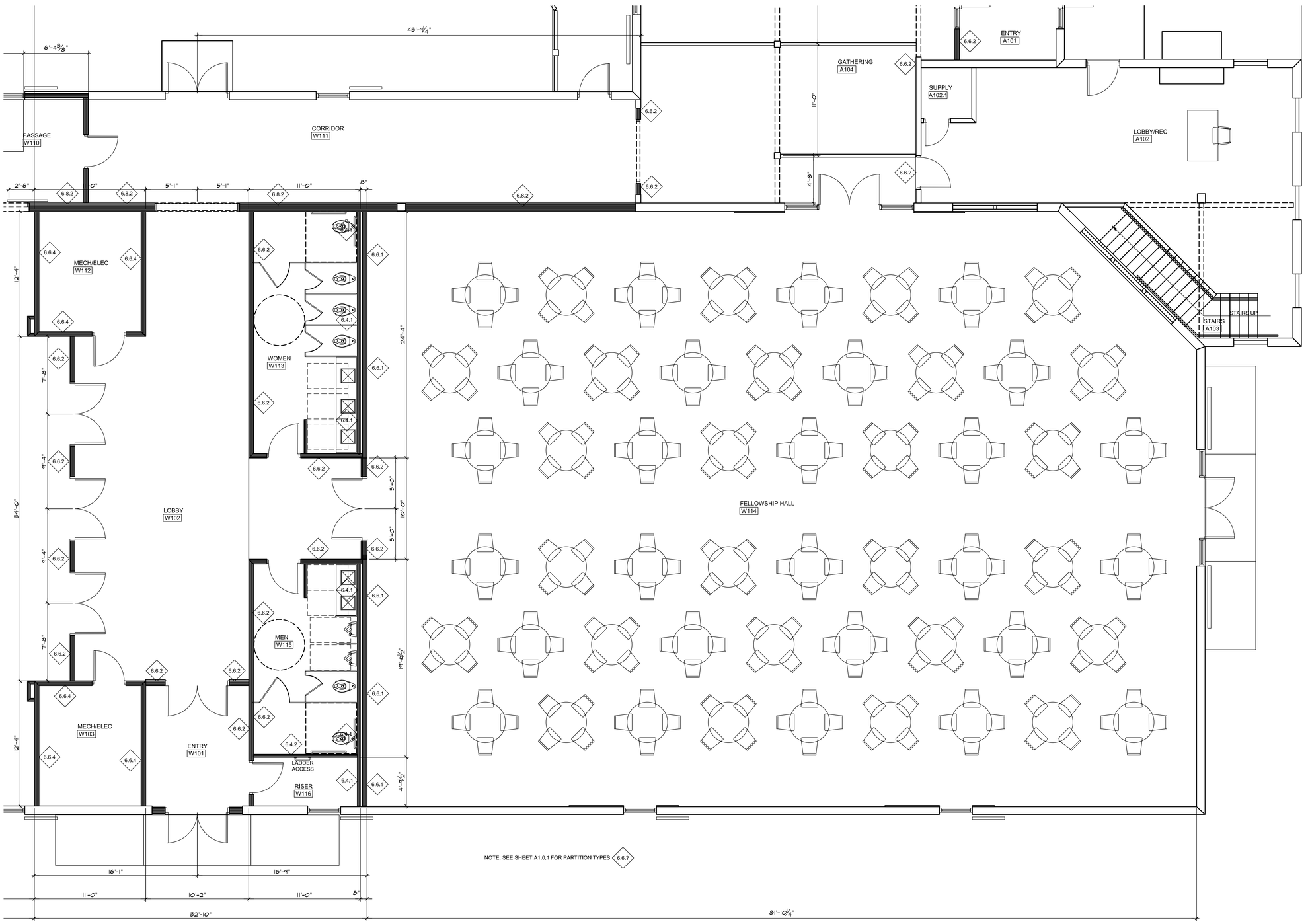

NOTE: SEE SHEET A1.0.1 FOR PARTITION TYPES 6.6.?

ALPHA BLDG SET 05-16-2025

D1 / A1.1.2

PROJ NORTH

FIRST FLOOR PLAN: FELLOWSHIP HALL-PHASE I

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

SCALE IN FEET

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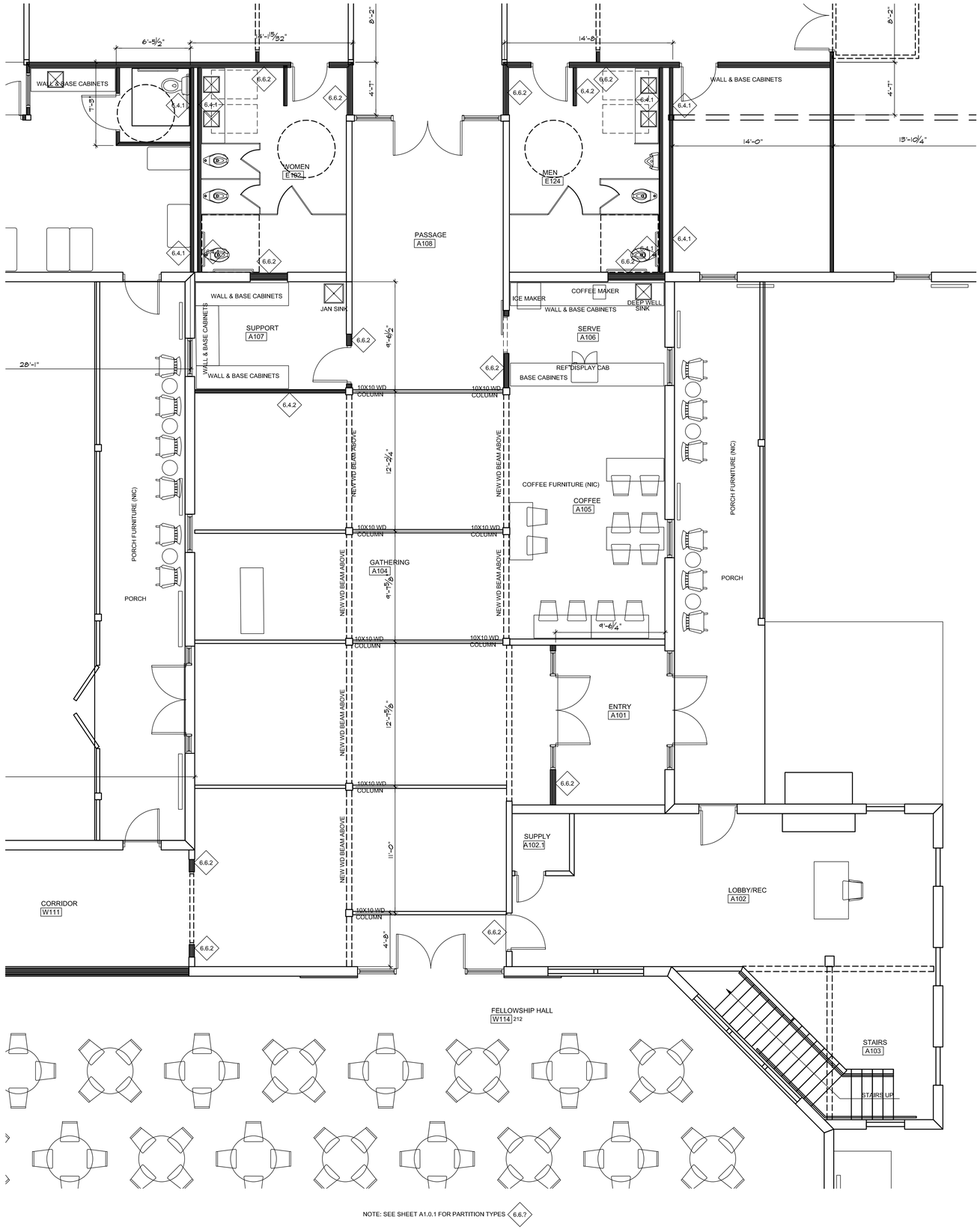
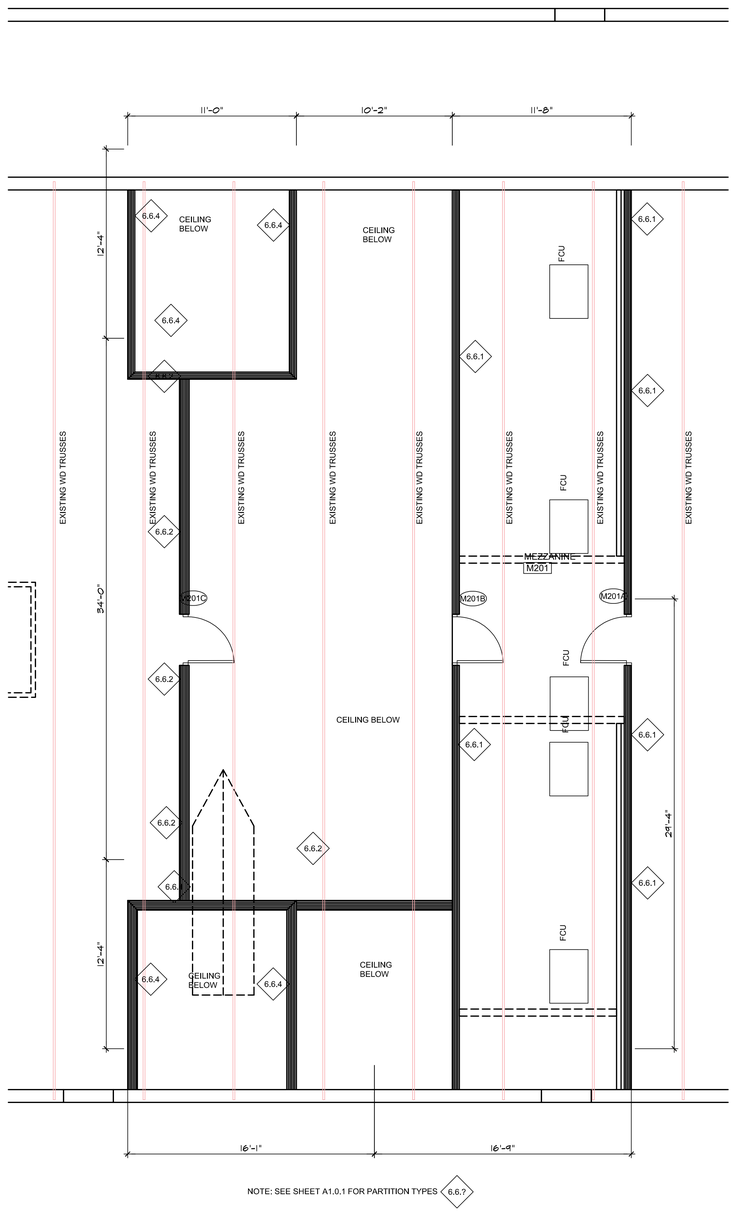


NOTE: SEE SHEET A1.0.1 FOR PARTITION TYPES 6.6.7

D1 A1.1.3 PROJ NORTH

FIRST FLOOR PLAN: GATHERING-PHASE I

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



NOTE: SEE SHEET A1.0.1 FOR PARTITION TYPES 6.6.7

D4 A1.1.3 PROJ NORTH

FLOOR PLAN: MECH MEZZANINE-PHASE I

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

SCALE IN FEET

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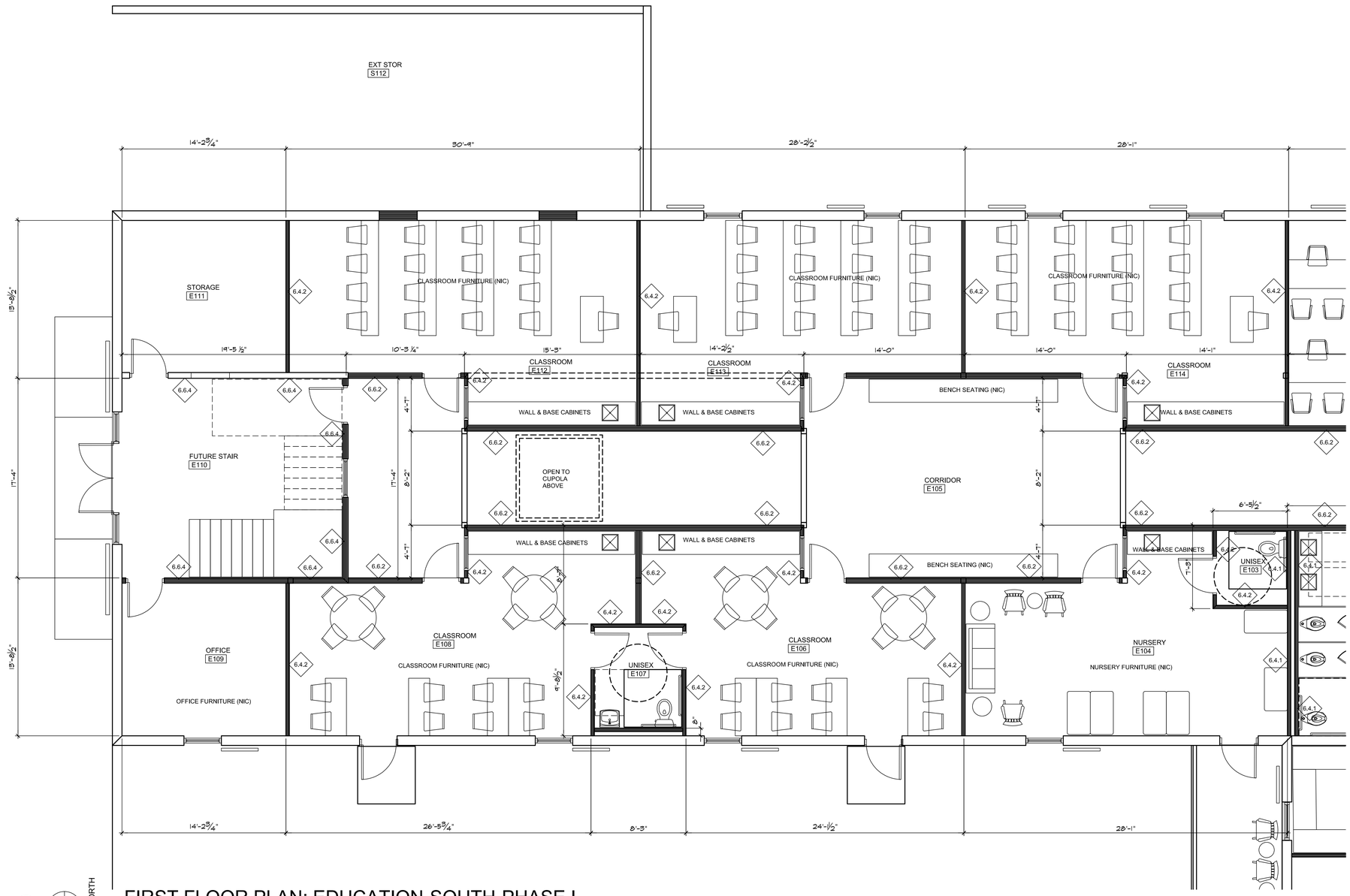

D1
A1.1.4

PROJ NORTH

FIRST FLOOR PLAN: EDUCATION-SOUTH-PHASE I

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

SCALE IN FEET

PARTITION TYPES

WOOD FRAMING PARTITIONS

- 6.4.1 — 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY WITH SOUND ATTENUATION INSULATION.
- 6.4.2 — 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH FACES & SOUND ATTENUATION INSULATION.
- 6.4.3 — 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY. & SOUND ATTENUATION INSULATION.
- 6.4.4 — 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8"TYPE "X" GYPSUM BOARD ON EACH FACE. (UL DESIGN NO. U305) & SOUND ATTENUATION INSULATION.
- 6.4.5 — 2X4 WOOD STUDS AT 16" O. C. WITH 2 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE W/ THERMAL INSULATION R13. (UL DESIGN NO. U301)

- 6.6.1 — 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY, WITH SOUND ATTENUATION INSULATION.
- 6.6.2 — 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTH FACES. & SOUND ATTENUATION INSULATION.
- 6.6.3 — 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY. & SOUND ATTENUATION INSULATION.
- 6.6.4 — 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTH SIDES. (UL DESIGN NO. U305) & SOUND ATTENUATION INSULATION.
- 6.6.5 — 2X6 WOOD STUDS AT 16" O. C. WITH 2 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE W/ WITH THERMAL INSULATION R19. (UL DESIGN NO. U301)

- 6.8.1 — 2X8 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY, WITH SOUND ATTENUATION INSULATION.
- 6.8.2 — 2X8 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH FACES. & SOUND ATTENUATION INSULATION.
- 6.8.3 — 2X8 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY. & SOUND ATTENUATION INSULATION.
- 6.8.4 — 2X8 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTH SIDES. (UL DESIGN NO. U305) & SOUND ATTENUATION INSULATION.
- 6.8.5 — 2X8 WOOD STUDS AT 16" O. C. WITH 2 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE W/ WITH THERMAL INSULATION R19. (UL DESIGN NO. U301)

GENERAL PARTITIONS NOTES:

(1) ALL PARTITIONS TO TERMINATE AT BOTTOM OF CEILING JOIST OR AT BOTTOME OF ROOF SHEATHING U. O. N.

(2) ALL FIRE RATED WALLS & PARTITIONS TO TERMINATE AT BOTTOM OF FLOOR / CEILING JOISTS AND BOTTOM OF ROOF SHEATHING. FLOOR TO THE UNDERSIDE OF THE ROOF OR FIRE RATED FLOOR DECK WITH ALL OPENINGS SEALED TIGHT.

(3) RATED WALL CONSTRUCTION THAT EXTENDS FROM THE FLOOR TO THE UNDERSIDE OF FLOOR / CEILING JOISTS OR ROOF SHEATHING SHALL BE FIRE-SEALED TIGHT.

(4) FIRE STOP SYSTEMS AND DEVICES: PENETRATIONS FOR CABLES, CABLE TRAYS, CONDUITS, PIPES, TUBES, COMBUSTION VENTS AND EXHAUST VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS INTO OR THROUGH A WALL, FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A FIRE BARRIER SHALL BE PROTECTED BY A FIRE STOP SYSTEM OR DEVICE. LIFE SAFETY CODE SECTION 8.3.5.1 OF THE 2018 EDITION. FIRE STOP SYSTEMS SHALL HAVE A MINIMUM OF ONE (1) HOUR F RATING, BUT NOT LESS THAN THE REEQUIRED FIRE RESISTIVE RATING OF THE FIRE BARRIER PENETRATED. SECTION 8.3.5.1.3. PENETRATIONS IN FIRE RATED HORIZONTAL ASSEMBLIES SHALL HAVE A MINIMUM ONE (1) HOUR T RATING, BUT NOT LESS THAN THE FIRE RESISTIVE RATING OF THE HORIZONTAL ASSEMBLY, SECTION 8.3.5.1.4. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS.

(5) IDENTIFICATION OF FIRE BARRIERS SHALL BE BY SIGNS OR STENCILING PERMANENTL INSTALLED ON ALL RATED BARRIERS OR WALLS, ABOVE ANY DECORATIVE CEILING AND/OR IN CONCEALED SPACES. THE LETTERING SHALL BE 2" IN HEIGHT AND SPACED EVERY 12 FEET. THE FOLLOWING WORDING IS RECOMMENDED: "ONE 1 (OR TWO-2) HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS."

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FIRST FLOOR PLAN

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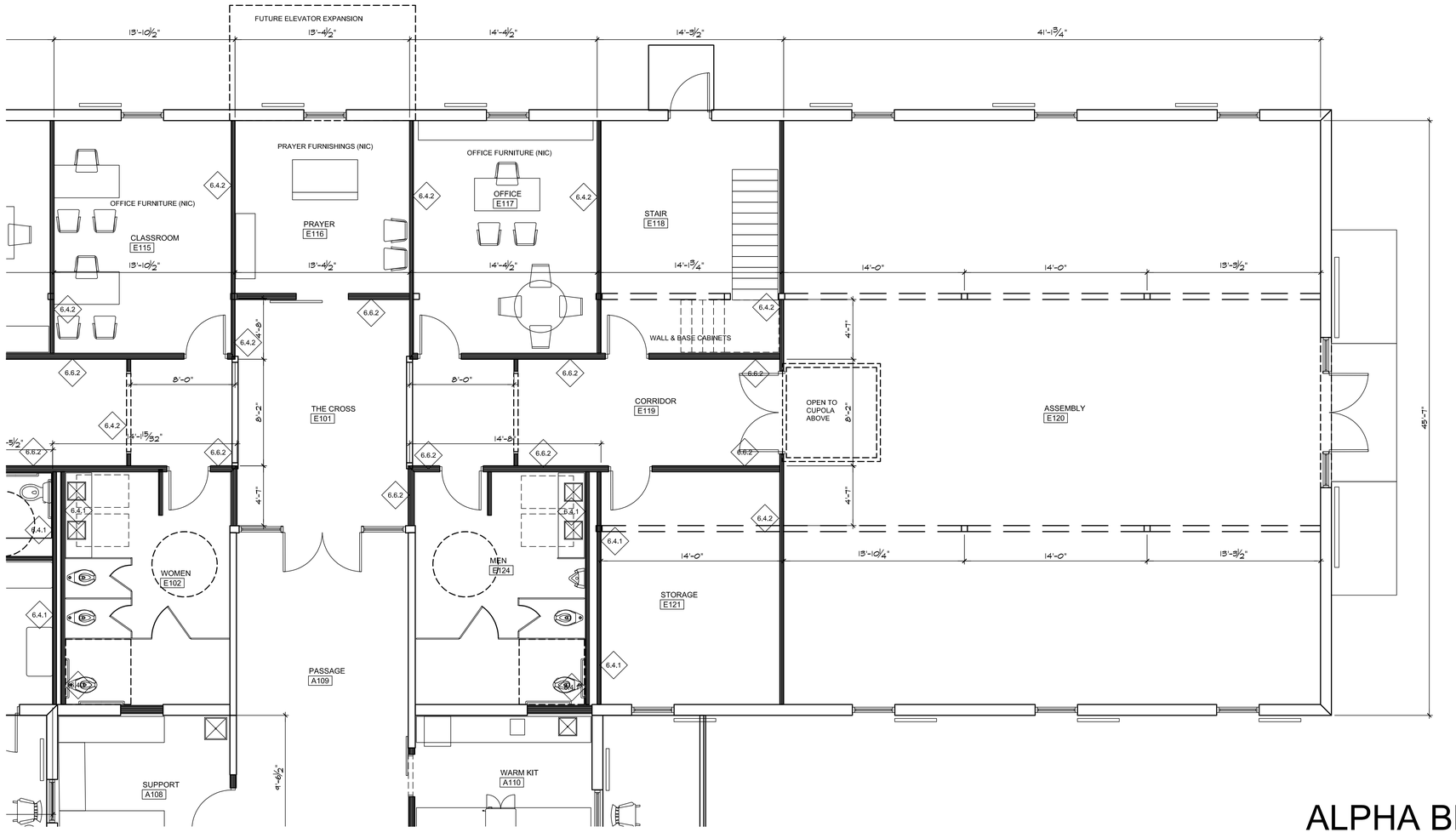

PARTITION TYPES

WOOD FRAMING PARTITIONS

6.4.1 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY WITH SOUND ATTENUATION INSULATION.

6.4.2 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH FACES & SOUND ATTENUATION INSULATION.

6.4.3 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY. & SOUND ATTENUATION INSULATION.

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SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS.

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ALPHA BLDG SET 05-16-2025

D1
A1.1.4

PROJ NORTH

FIRST FLOOR PLAN: EDUCATION-NORTH-PHASE I

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

0 8' 16'
SCALE IN FEET

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SUNBELT BUILDERS
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FIRST FLOOR PLAN

Retrofit & Renovations for
Madison Methodist Church
1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P1
DATE:	08.04.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW
DATE:	01.02.25
DESCRIPTION:	BID-CONSTRUCTION
DATE:	01.21.25

REVISIONS:
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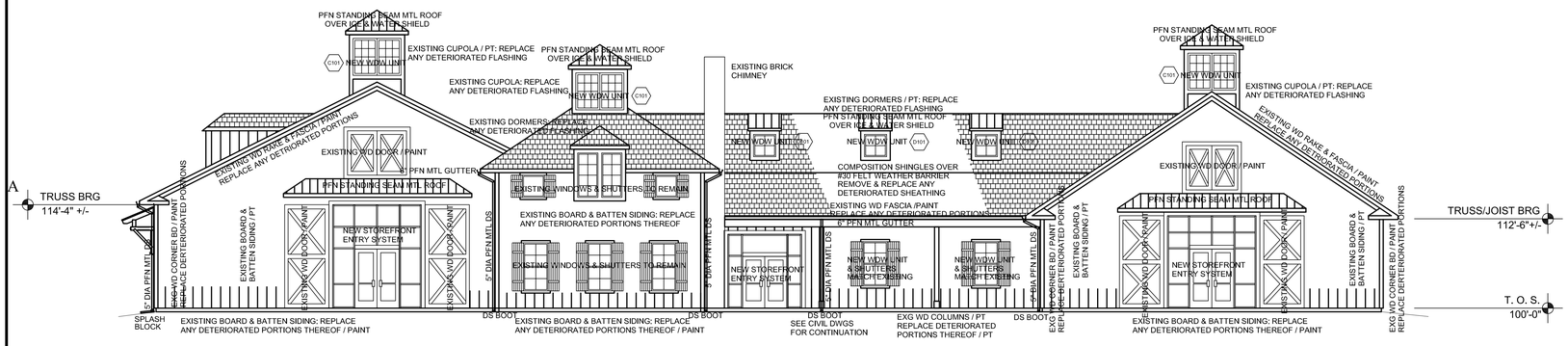
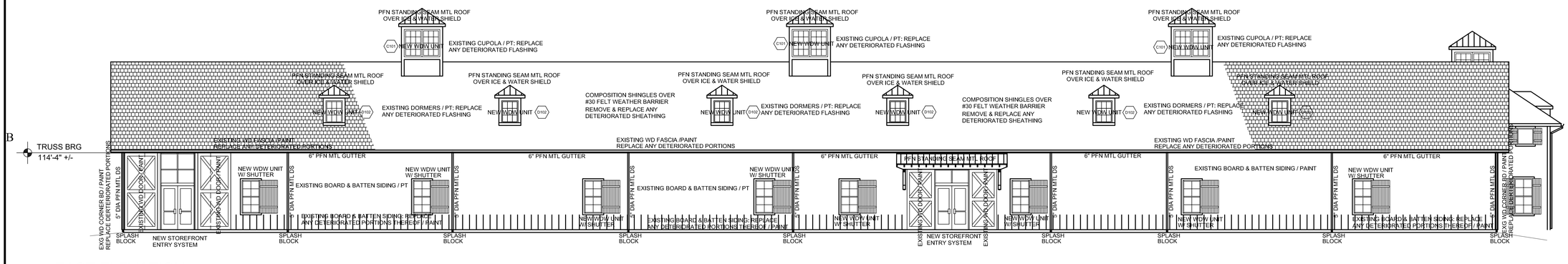
A1.1.5
OF



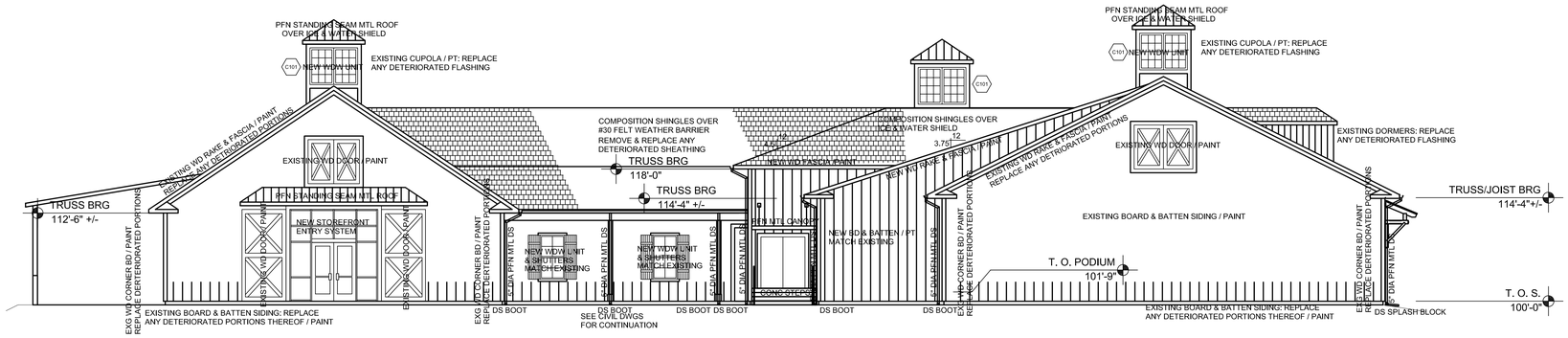
NORTH ELEVATION

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



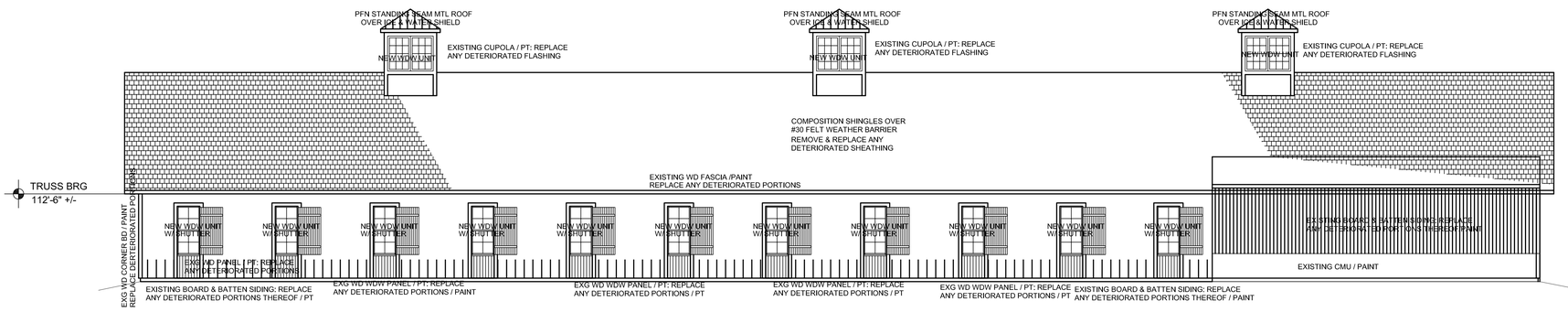
EAST ELEVATION

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



SOUTH ELEVATION

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



WEST ELEVATION

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

ALPHA BLDG SET 05-16-2025

SCALE IN FEET: 0, 8', 16'

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BUILDING ELEVATIONS

Retrofit & Renovations for Madison Methodist Church

Madison, Georgia 30650
1091 Confederate Highway

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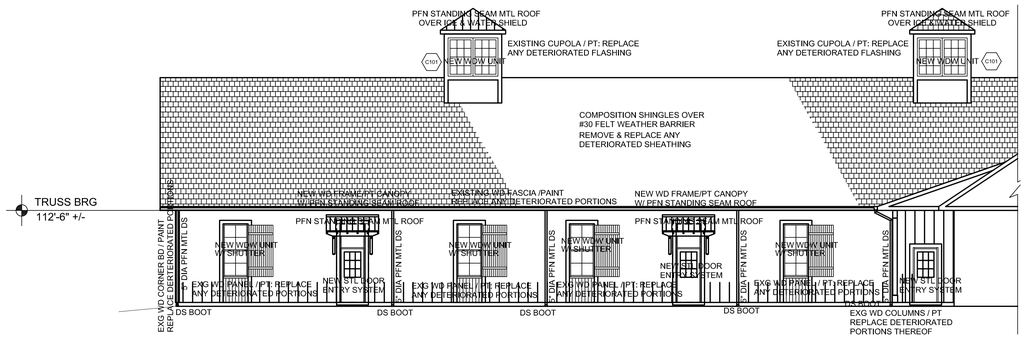
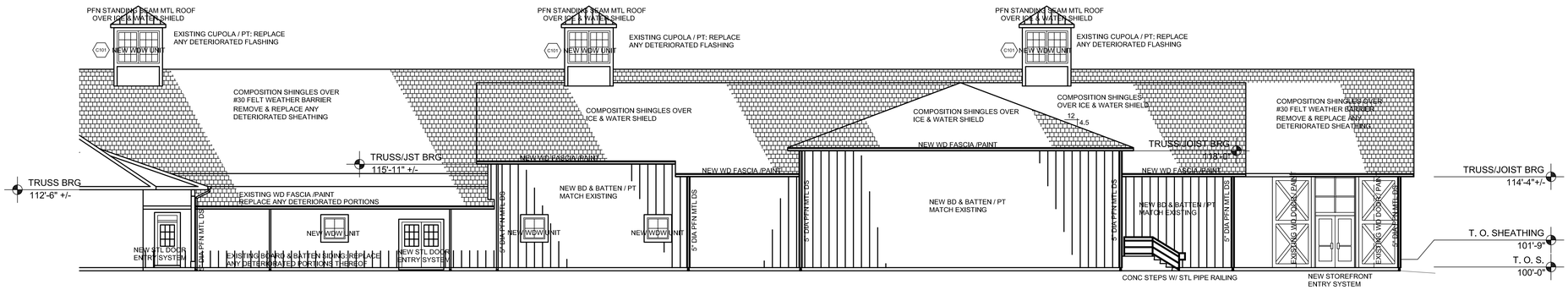


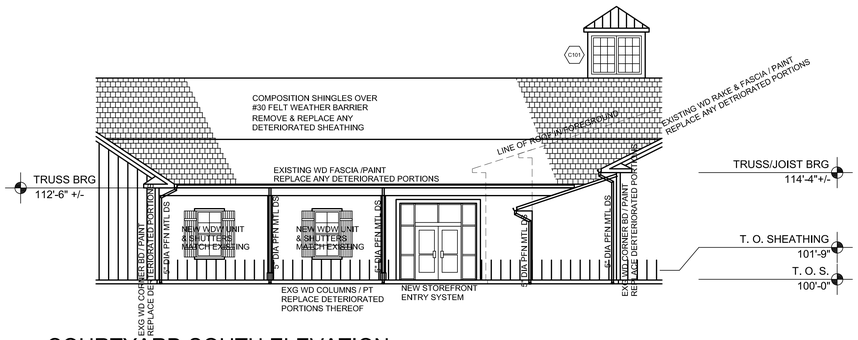
COURTYARD EAST ELEVATION

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



COURTYARD WEST ELEVATION

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



COURTYARD SOUTH ELEVATION

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

ALPHA BLDG SET 05-16-2025

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

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BUILDING ELEVATIONS

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Madison, Georgia 30650

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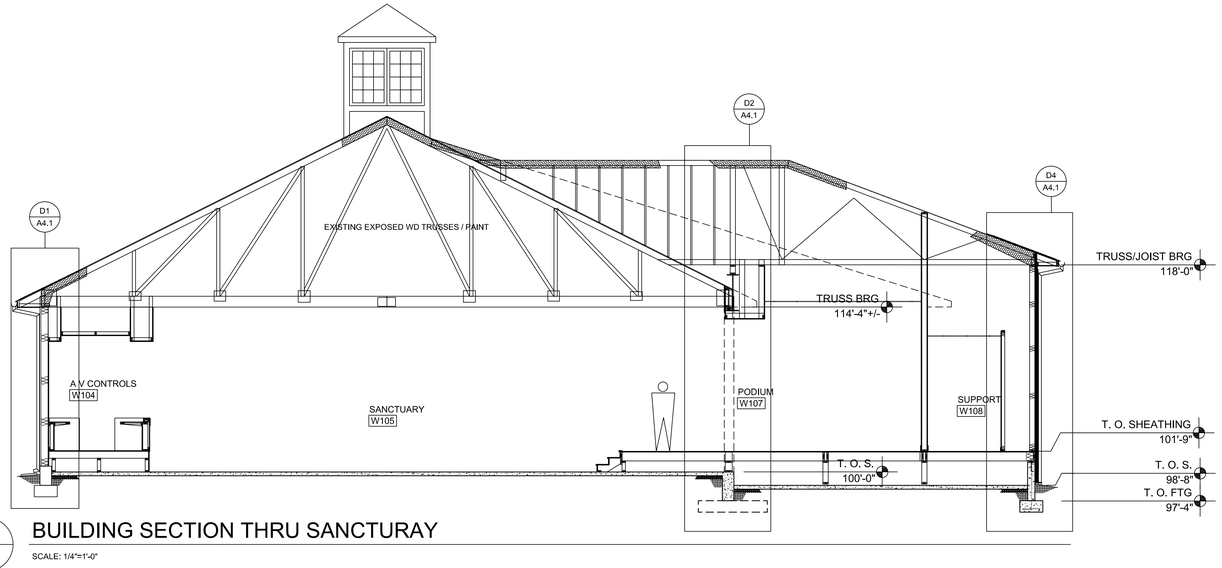
SHEET

A2.2

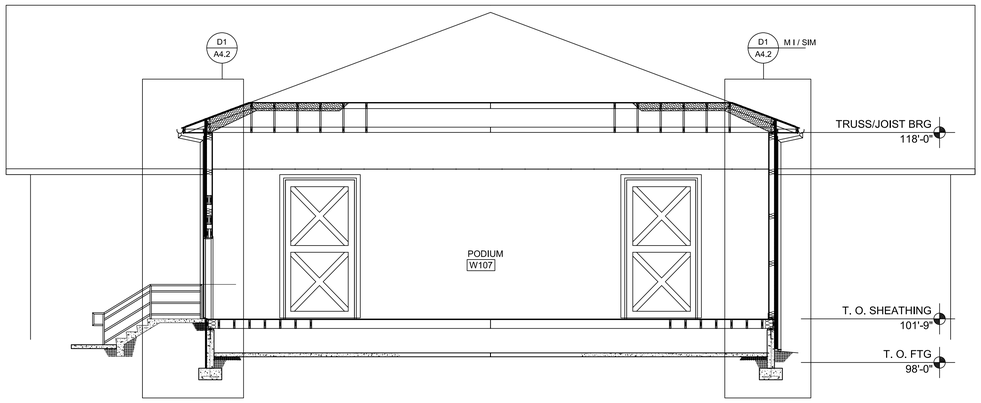
OF

0 8" 16"
SCALE IN FEET



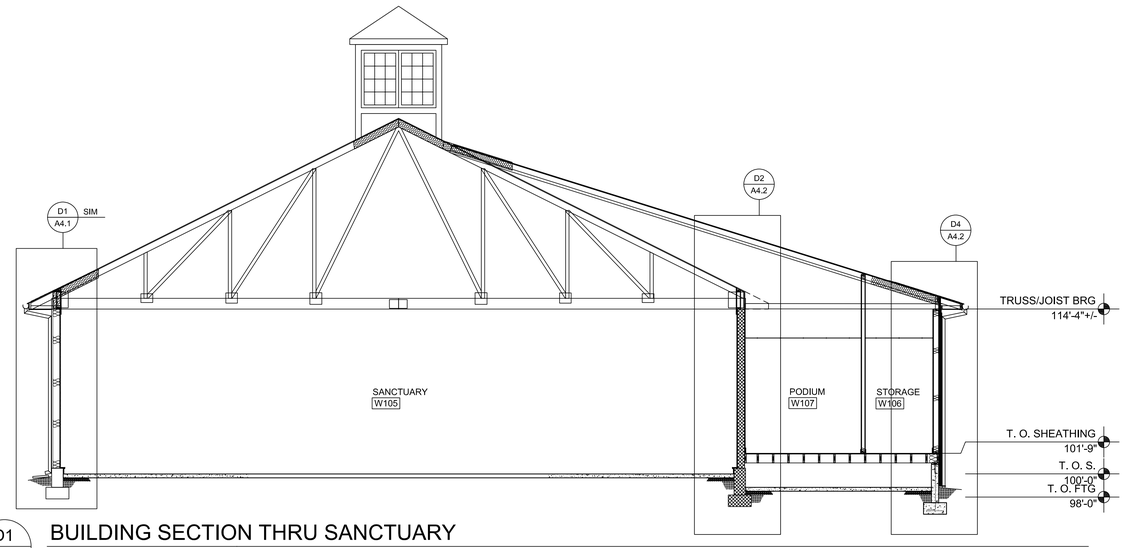
B1 / A3.1 BUILDING SECTION THRU SANCTURAY

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



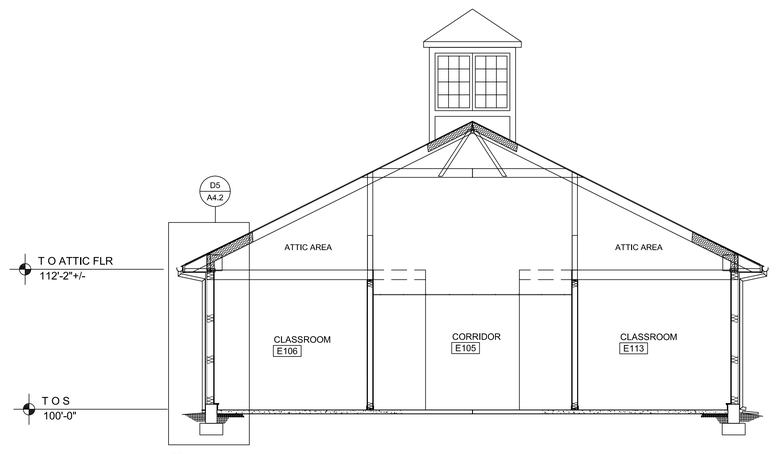
C1 / A3.1 BUILDING SECTION THRU PODIUM

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



D1 / A3.1 BUILDING SECTION THRU SANCTUARY

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



D4 / A3.1 BUILDING SECTION THRU STABLES

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

0 8' 16'
SCALE IN FEET

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BUILDING SECTIONS

Retrofit & Renovations for
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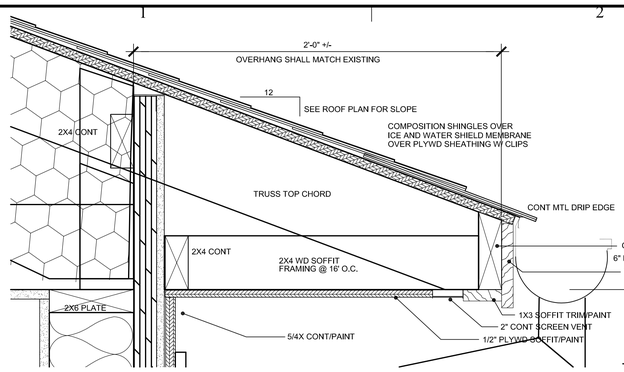
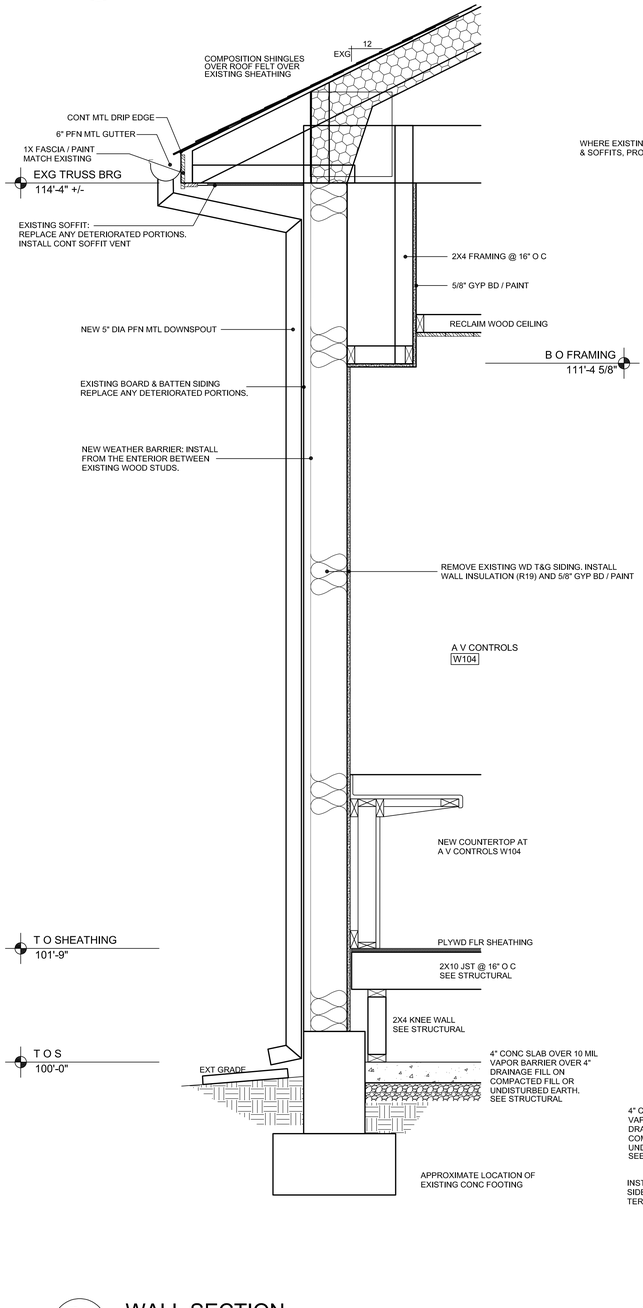


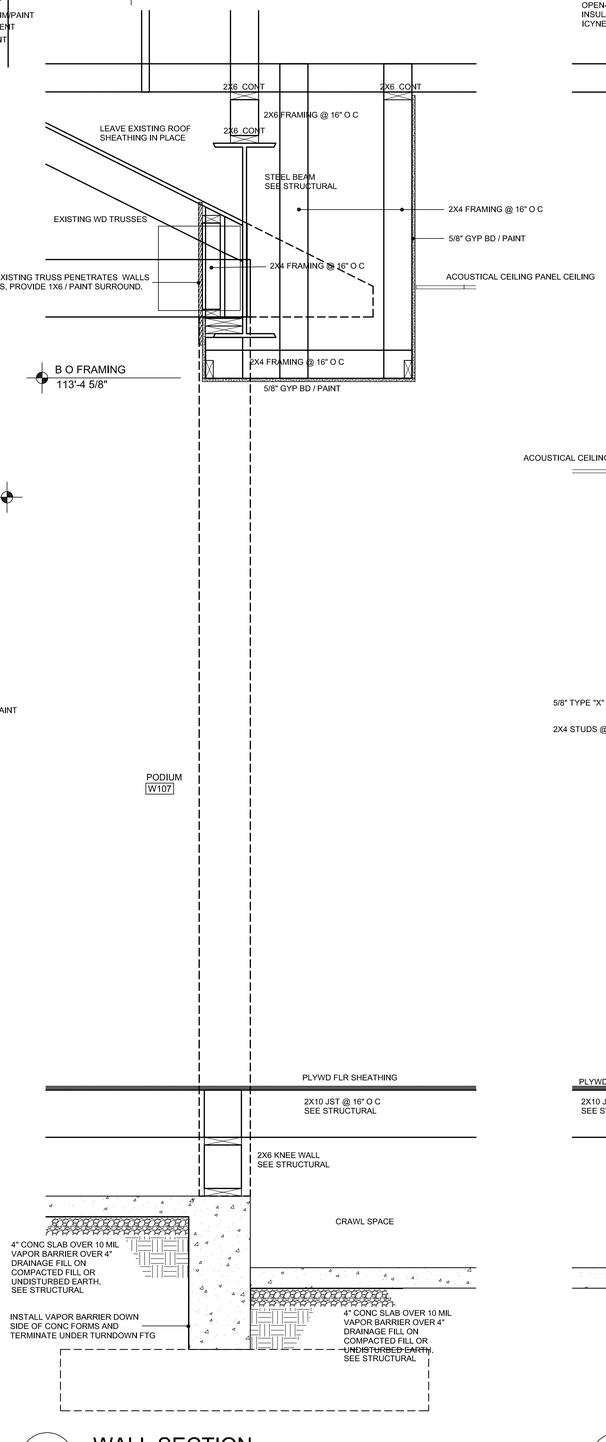
A1 / A4.1 **DETAIL: TYP EAVE**

SCALE: 3"=1'-0"



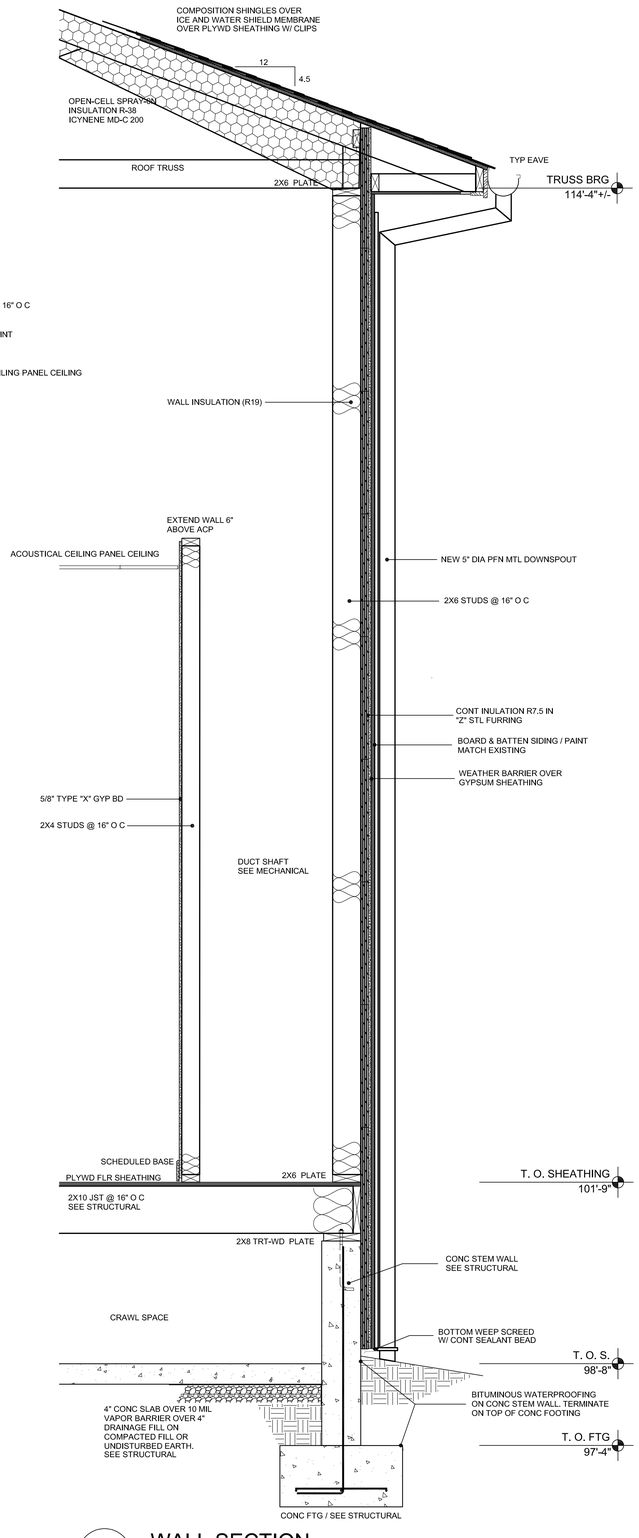
D1 / A4.1 **WALL SECTION**

SCALE: 1"=1'-0"



D2 / A4.1 **WALL SECTION**

SCALE: 1"=1'-0"



D4 / A4.1 **WALL SECTION**

SCALE: 1"=1'-0"

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WALL SECTIONS & DETAILS

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

JOB NO.:	02405
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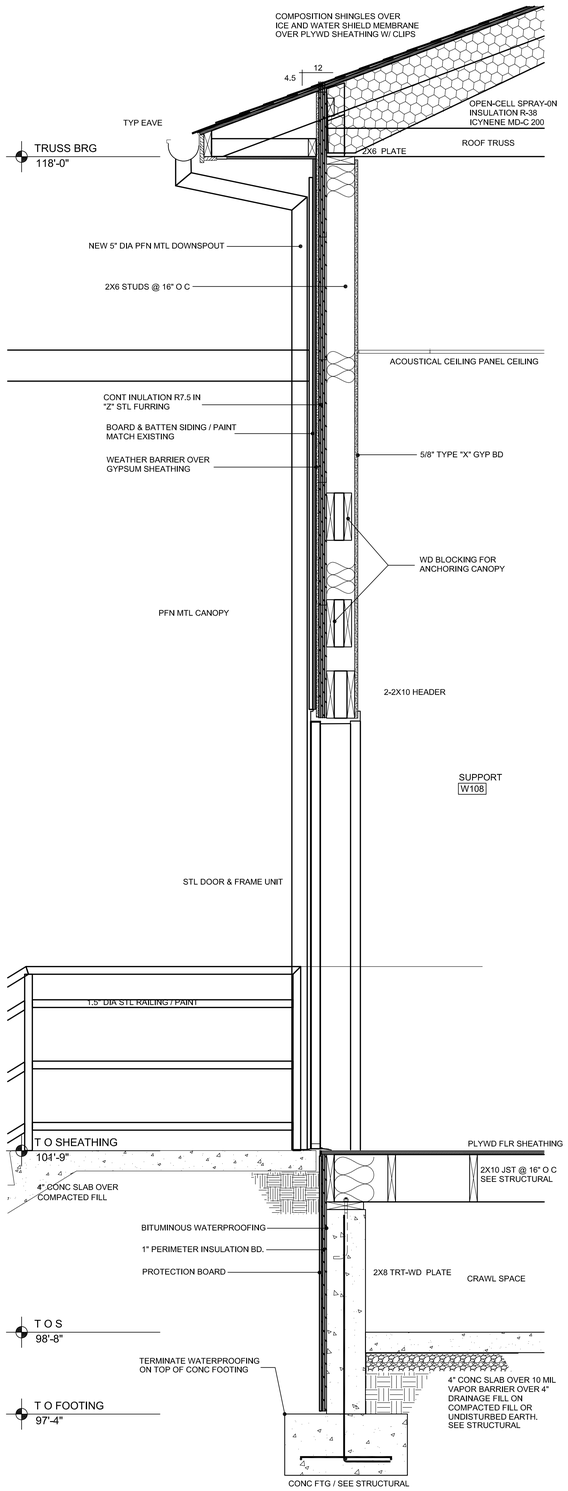

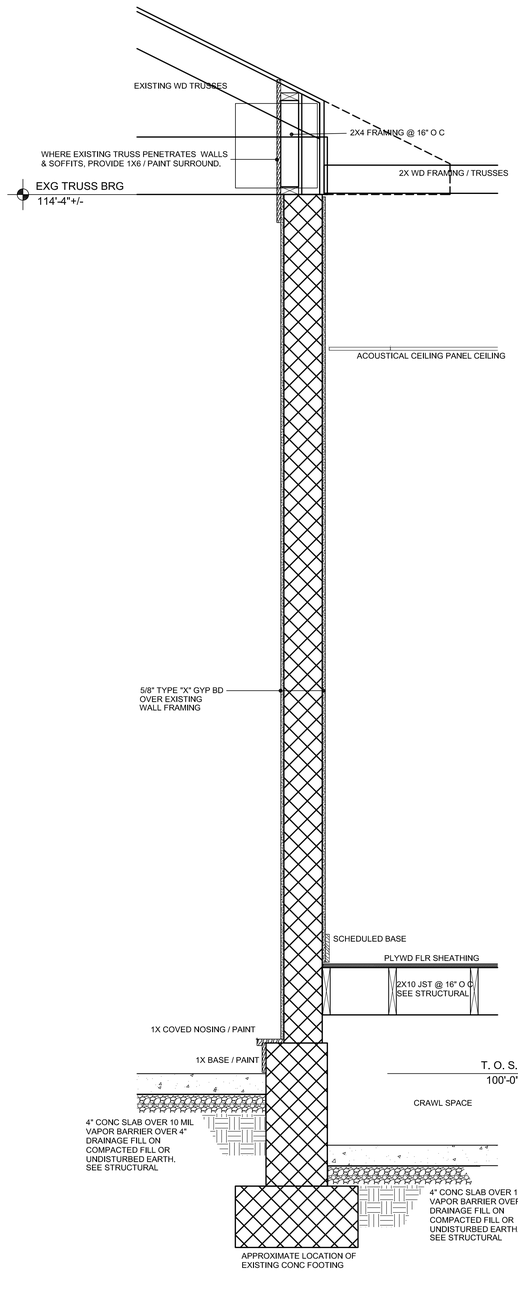

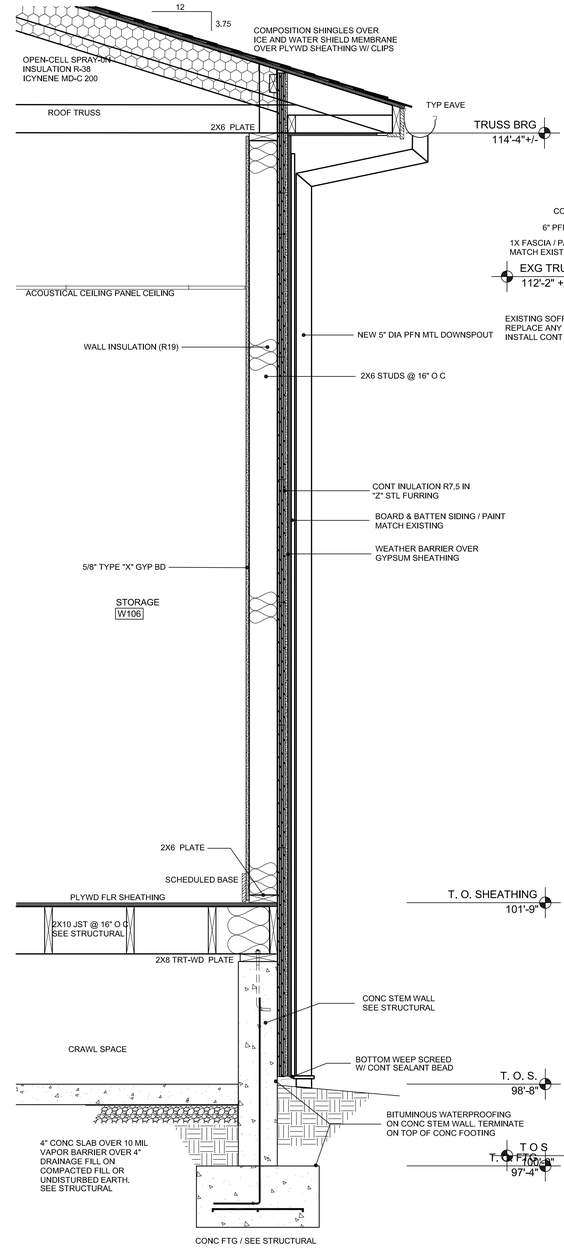

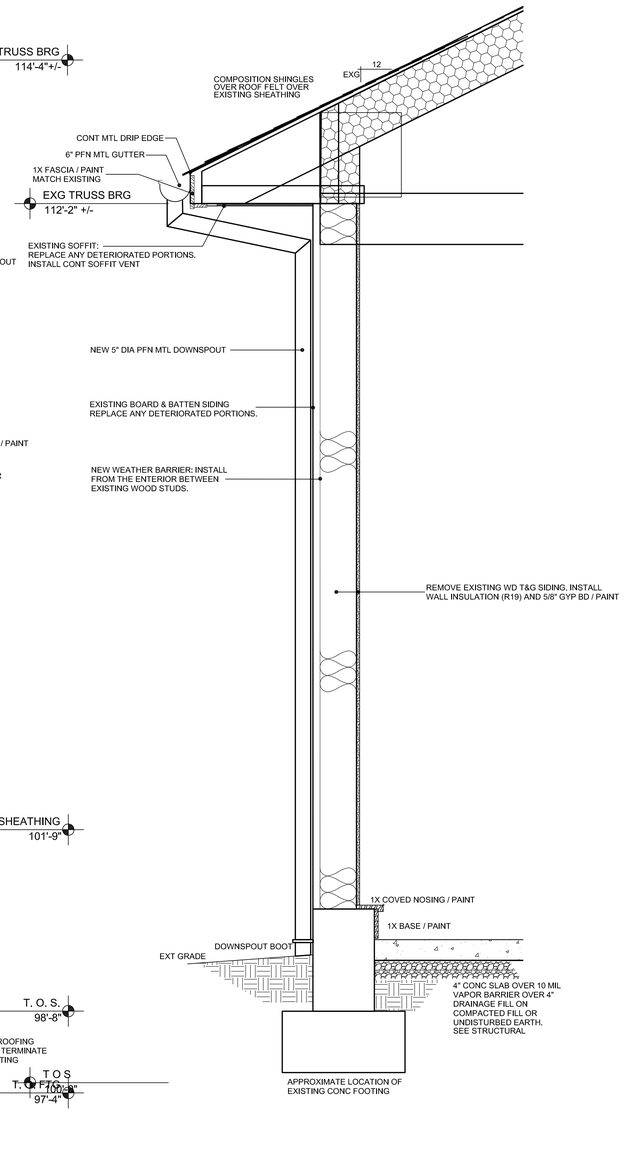

D1 A4.2 **WALL SECTION**
SCALE: 1"=1'-0"

D2 A4.2 **WALL SECTION**
SCALE: 1"=1'-0"

D4 A4.2 **WALL SECTION**
SCALE: 1"=1'-0"

D5 A4.2 **TYP WALL SECTION: STABLES**
SCALE: 1"=1'-0"

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WALL SECTIONS & DETAILS

Retrofit & Renovations for Madison Methodist Church

Madison, Georgia 30650
1091 Confederate Highway

JOB NO.:	02405
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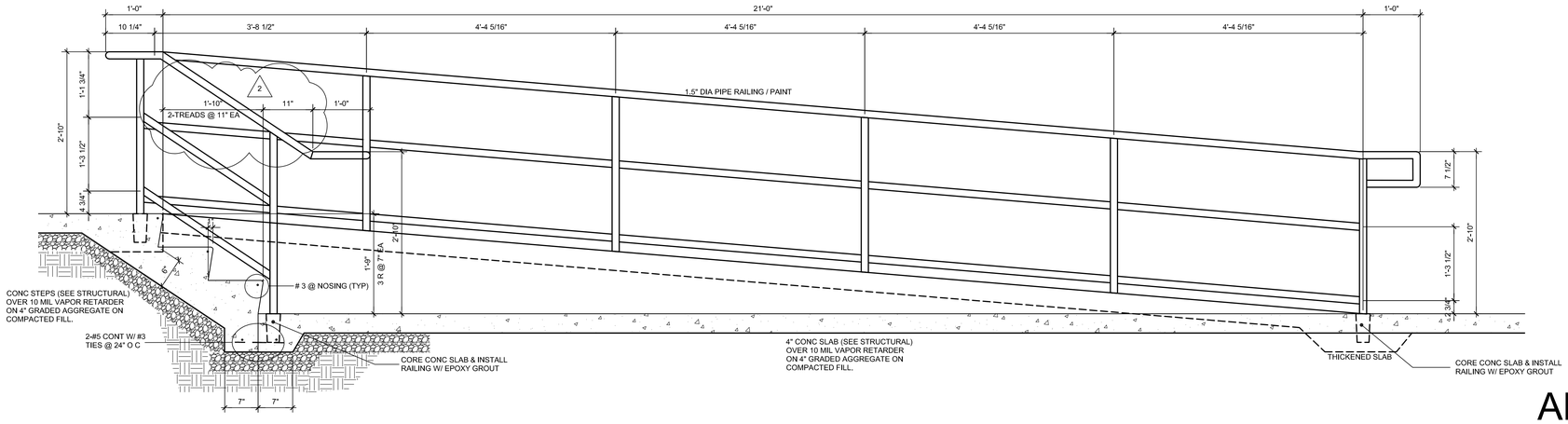
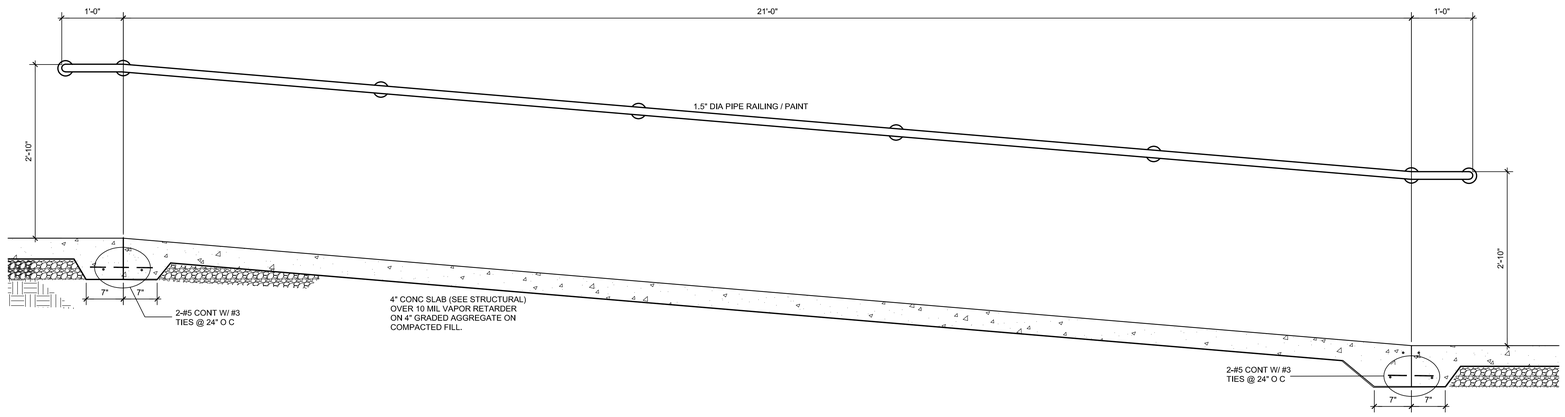


A1
A6.1

SECTION THRU INTERIOR CONCRETE STEPS

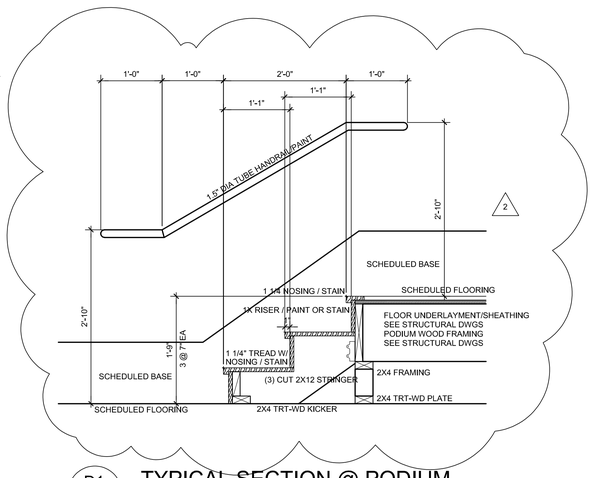
SCALE: 1"=1'-0"



B1
A6.1

SECTION THRU INTERIOR CONCRETE RAMP

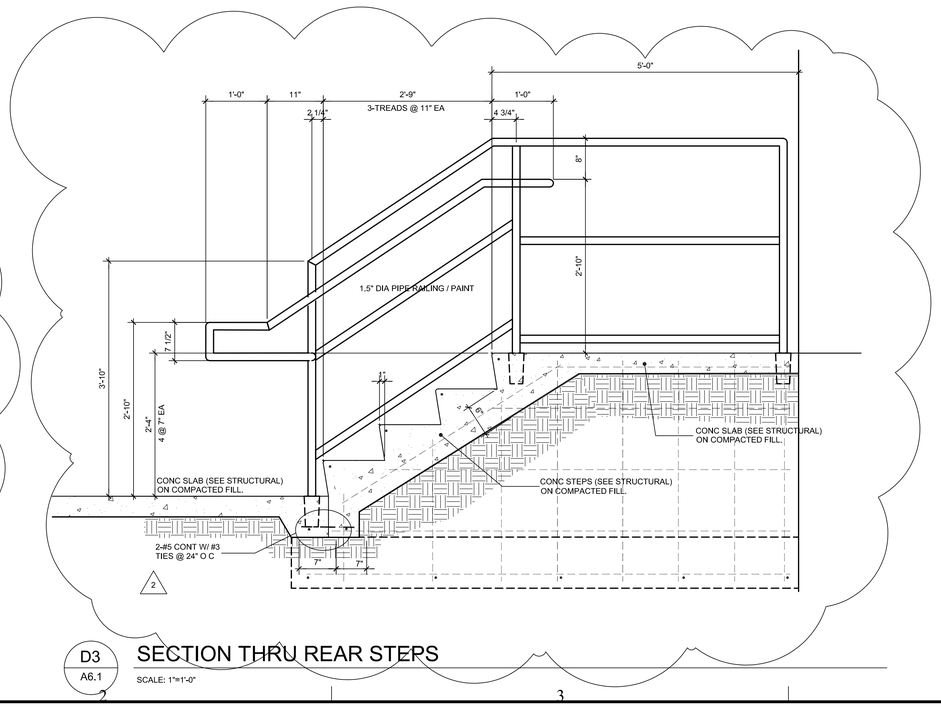
SCALE: 1"=1'-0"



D1
A6.1

TYPICAL SECTION @ PODIUM

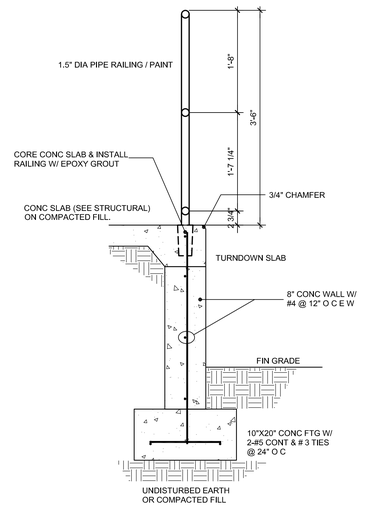
SCALE: 1"=1'-0"



D3
A6.1

SECTION THRU REAR STEPS

SCALE: 1"=1'-0"



D4
A6.1

SECTION THRU LANDING

SCALE: 1"=1'-0"

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SECTION DETAILS

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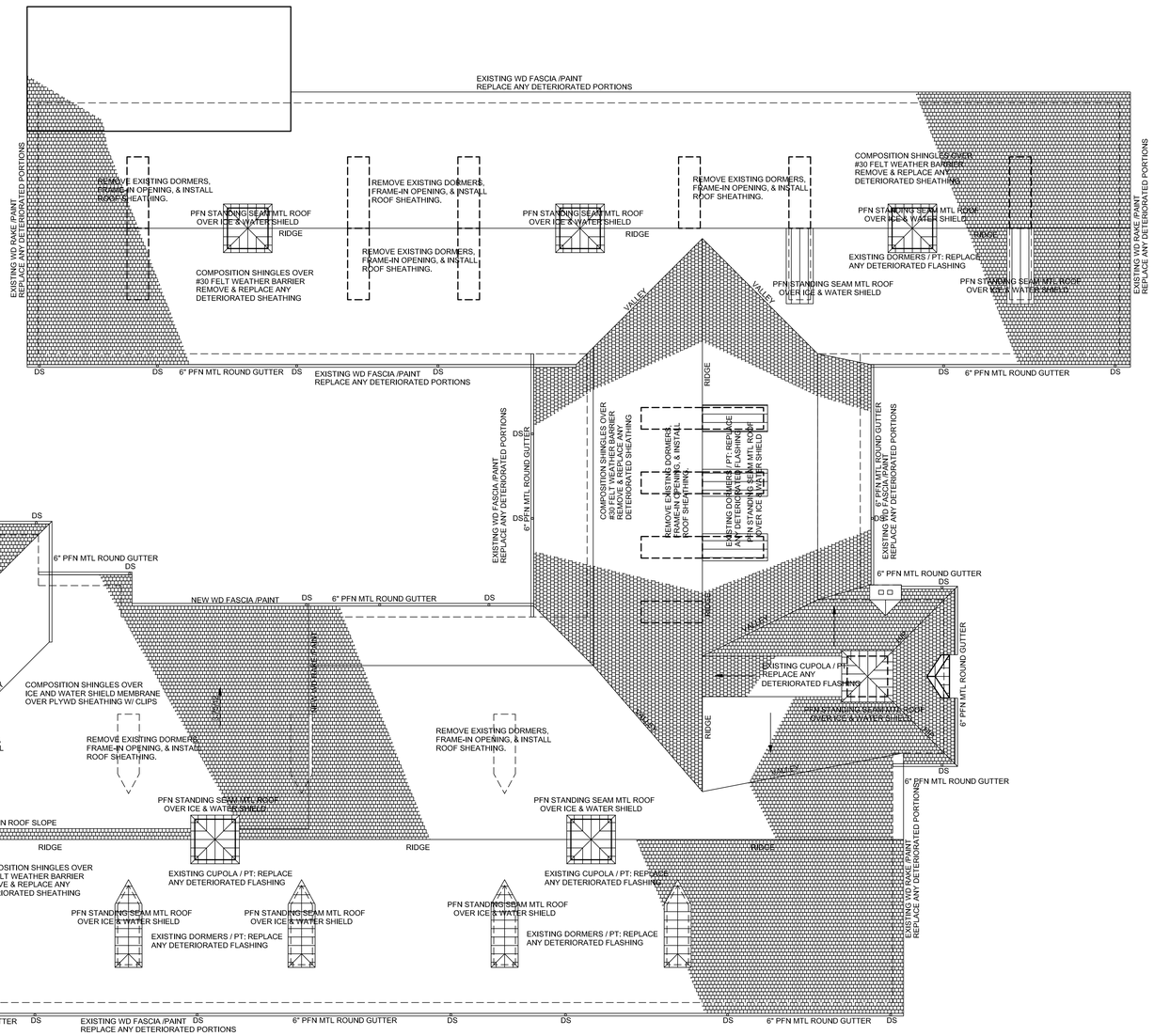

NOTE: PROVIDE & INSTALL 18" WIDE ICE & WATER SHIELD SHEET FLASHING AT RIDGE LINES, HIPS, VALLEYS, EAVE & RAKE LINES, WALL INTERSECTIONS, ROOF PENETRATIONS, ETC. (TYPICAL)

PROJ NORTH

ROOF PLAN

SCALE: 3/32" = 1'-0"

0 10'-6" 21'-0"
SCALE IN FEET

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ROOF PLAN

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A7.1

OF

WINDOW SCHEDULE

ABBREVIATIONS:

AL	ALUMINUM	NR	NOT RATED(NO RATING)	WD	WOOD
FF	FACTORY FINISH	PT	PAINT		
GL1	GLAZING TYPE	SF	STOREFRONT SYSTEM		
HLB	HORIZONTAL LOUVER BLIND	SS	SOLID SURFACE MATERIAL		
HM	HOLLOW METAL	STL	STEEL		
NA	NOT APPLICABLE				

SYMBOL		WINDOW UNIT									TRIM & SILL						DETAILS					
		R. O. SIZE		UNIT SIZE							WDW TRIM			WDW SILL			SHEET A8.3 U.O.N.			FIRE RATING	WDW TRTMT	REMARKS
SPACE	MARK	W	H	W	H	D	TYPE	MAT'L.	FIN	GL.	TYPE	MAT'L.	FIN	TYPE	MAT'L.	FIN	H	J	S			
																	DETAILS ON SHEET A8.3.2					
W105	W105	3'-3" +/-	6'-0"+/-	3'-2"	5'-11" +/-	4 1/2"	A	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
W110	W110	3'-3" +/-	3'-3"+/-	3'-2"	3'-2"+/-	4 1/2"	B	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
W111	W111	3'-3" +/-	3'-3"+/-	3'-2"	3'-2"+/-	4 1/2"	B	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
W114	W114	3'-3" +/-	6'-0"+/-	3'-2"	5'-11" +/-	4 1/2"	A	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
W116	W116	3'-3" +/-	6'-0"+/-	3'-2"	5'-11" +/-	4 1/2"	A	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
A102	A102A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	EXISTING TO REMAIN
A102	A102B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	EXISTING TO REMAIN
A102	A103A	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	EXISTING TO REMAIN
A102	A103B	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	EXISTING TO REMAIN
A104	A104	3'-4"+/-	6'-0"+/-	3'-3"+/-	5'-11"+/-	4 1/2"	C	M-EXG	M-EXG	GL2	"	WD	PT	"	SS	FF	"	"	"	"	"	MATCH EXISTING
A105	A105	3'-4"+/-	6'-0"+/-	3'-3"+/-	5'-11"+/-	4 1/2"	C	M-EXG	M-EXG	GL2	"	WD	PT	"	SS	FF	"	"	"	"	"	MATCH EXISTING
A106	A106	3'-4"+/-	6'-0"+/-	3'-3"+/-	5'-11"+/-	4 1/2"	C	M-EXG	M-EXG	GL2	"	WD	PT	"	SS	FF	"	"	"	"	"	MATCH EXISTING
A107	A107	3'-4"+/-	6'-0"+/-	3'-3"+/-	5'-11"+/-	4 1/2"	C	M-EXG	M-EXG	GL2	"	WD	PT	"	SS	FF	"	"	"	"	"	MATCH EXISTING
E104	E104A	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E104	E104B	3'-1"	4'-1"	3'-0"	4'-0"	4"	H	AL	FF	GL7	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E106	E106A	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E106	E106B	3'-1"	4'-1"	3'-0"	4'-0"	4"	H	AL	FF	GL7	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E108	E108A	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E108	E108B	3'-1"	4'-1"	3'-0"	4'-0"	4"	H	AL	FF	GL7	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E109	E109	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E110	E110	3'-1"	4'-1"	3'-0"	4'-0"	4"	H	AL	FF	FR	N/A	N/A	N/A	"	WD	PT	?	?	?	3/4 HR	N/A	STOREFRONT SYSTEM
E112	E112A	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E112	E112B	3'-1"	4'-1"	3'-0"	4'-0"	4"	H	AL	FF	GL7	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E113	E113A	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E113	E113B	3'-1"	4'-1"	3'-0"	4'-0"	4"	H	AL	FF	GL7	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E114	E114A	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E114	E114B	3'-1"	4'-1"	3'-0"	4'-0"	4"	H	AL	FF	GL7	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E115	E115	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E116	E116	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E117	E117	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E118	E118A	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E118	E118B	3'-1"	4'-1"	3'-0"	4'-0"	4"	H	AL	FF	GL7	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E120	E120	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E121	E121	3'-1"	4'-1"	3'-0"	4'-0"	4"	H	AL	FF	GL7	N/A	N/A	N/A	"	WD	PT	?	?	?	3/4 HR	N/A	STOREFRONT SYSTEM
E122	E122	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E123	E123A	3'-3" +/-	6'-10"+/-	3'-2"	6'-9"+/-	4 1/2"	D	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	STOREFRONT SYSTEM
E123	E123B	3'-1"	4'-1"	3'-0"	4'-0"	4"	D	AL	FF	GL7	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM
ROOF	C101	6'-7"+/-	5'-1"+/-	6'-6"+/-	5'-0"	4 1/2"	E	AL	FF	GL1	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM
ROOF	D101	3'-1"+/-	3'-1"+/-	3'-0"+/-	3'-0"+/-	4 1/2"	F	AL	FF	GL1	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM
ROOF	D102	3'-1"+/-	4'-1"+/-	3'-0"+/-	4'-0"+/-	4 1/2"	G	AL	FF	GL1	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	STOREFRONT SYSTEM

GLASS TYPES

GL 1	INSULATING GLASS WITH TINTED LOW-E EXTERIOR PANE AND CLEAR GLASS INTERIOR PANE.
GL 2	INSULATING GLASS WITH TEMPERED TINTED LOW-E EXTERIOR PANE AND TEMPERED CLEAR GLASS INTERIOR PANE.
GL 3	INSULATING GLASS WITH TINTED EXTERIOR PANE AND CLEAR GLASS INTERIOR PANE.
GL 4	INSULATING GLASS WITH TEMPERED TINTED EXTERIOR PANE AND TEMPERED CLEAR GLASS INTERIOR PANE.
GL 5	SINGLE 1/4" TINTED GLASS.
GL 6	SINGLE 1/4" CLEAR GLASS.
GL 7	SINGLE 1/4" TEMPERED CLEAR GLASS.
GL 8	SOUND INSULATING GLASS WITH CLEAR LAMINATED PLATE GLASS PANELS BOTH PANES.
GL 9	SINGLE TEMPERED TINTED GLASS.
GL 10	INSULATING GLASS WITH CLEAR EXTERIOR PANE AND CLEAR GLASS INTERIOR PANE.
GL 11	INSULATING GLASS WITH TEMPERED CLEAR EXTERIOR PANE AND TEMPERED CLEAR GLASS INTERIOR PANE.
GL 12	1/4" WIRE GLASS.

DOOR, WINDOW, AND FRAME NOTES

1. ALL STEEL DOORS, WINDOWS, AND FRAMES SHALL BE PAINTED INCLUDING ALL TOPS, BOTTOMS, AND EDGES.

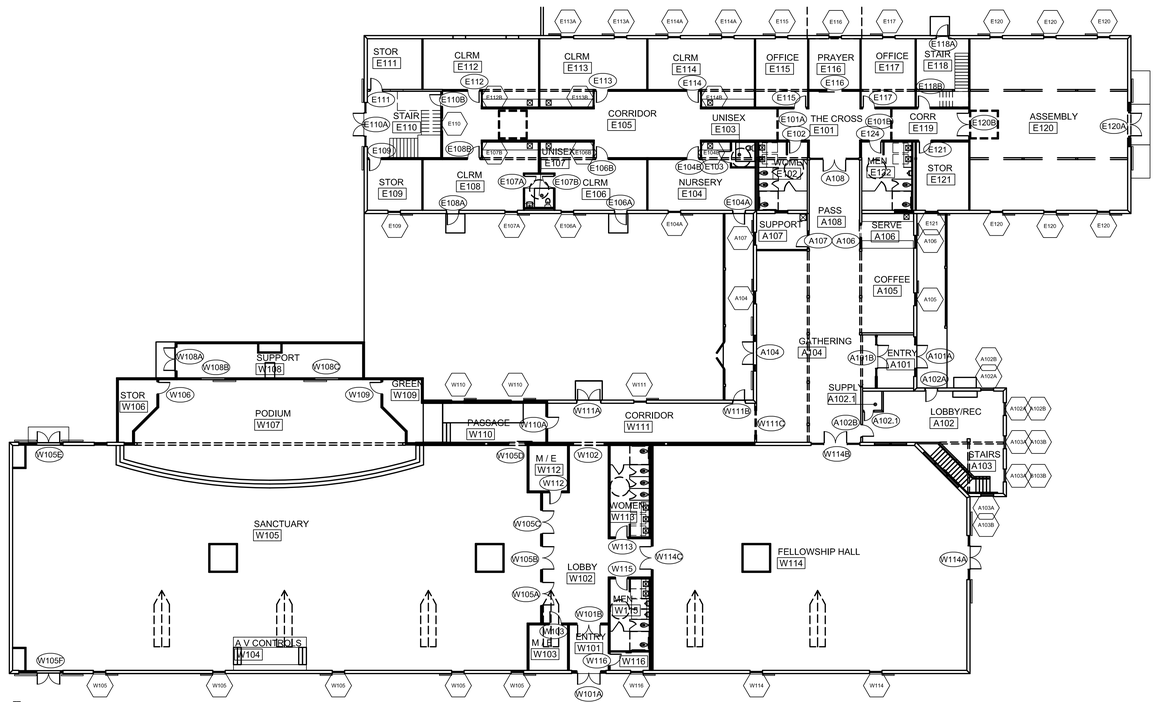
2. ALL WOOD DOORS, WINDOWS, AND FRAMES SHALL BE PAINTED OR STAINED INCLUDING ALL TOPS, BOTTOMS, AND EDGES.

DOOR AND FRAME SCHEDULE

ABBREVIATIONS:

AL ALUMINUM	SCW SOLID CORE WOOD	WD WOOD	
GL GLASS TYPE	STN STAIN	WPL WOOD PANEL	
HCW HOLLOW CORE WOOD	STL STEEL		
HR HOUR RATING	S. S. STAINLESS STEEL		

SYMBOL		DOOR							FRAME								HDWE.		REMARKS
		OPENING SIZE										DETAILS			FIRE RAT'G	HDWE. GRP.	KEY SPACE	
SPACE	MARK	W	H	T	MAT'L.	TYPE	GL.	UND. CUT	MAT'L.	DEPTH	TYPE	TRIM TYPE	H	J	S				
WORSHIP AREA																			
W101	W101A	6'-0"	8'-0"	1-3/4"	AL	EA	GL7	1/2"	AL	4-1/2"	EA	N/A	?/A8.3.2	?/A8.3.2	D?/A8.3.2	N/A	?	EXT	-
W101	W101B	6'-0"	8'-0"	1-3/4"	AL	IA	GL7	1/2"	AL	4-1/2"	IA	N/A	?/A8.3.2	?/A8.3.2	D?/A8.3.2	N/A	?	N/A	-
W102	W102	8'-0"	8'-0"	N/A	N/A	N/A	N//A	N/A	STL	7 3/4"	IB	N/A	?	?	?	N/A	?	N/A	FRAME ONLY
W103	W103	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	7 3/4"	IC	N/A	?	?	?	3/4 HR	?	W102	-
W104	W104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NOT USED
W105	W105A	7'-0"	8'-0"	1-3/4"	SCW	ID	?	3/4"	STL	7-3/4"	ID	N/A	?	?	?	?	?	N/A	
W105	W105B	7'-0"	8'-0"	1-3/4"	SCW	ID	?	3/4"	STL	5-3/4"	ID	N/A	?	?	?	?	?	N/A	
W105	W105C	7'-0"	8'-0"	1-3/4"	SCW	ID	?	3/4"	STL	7 3/4"	ID	N/A	?	?	?	?	?	N/A	
W105	W105D	3'-0"	7'-0"	1-3/4"	SCW	IE	N//A	3/4"	STL	7 3/4"	IE	N/A	?	?	?	N/A	?	N/A	-
W105	W105E	6'-0"	7'-0"	1-3/4"	AL	EB	GL7	1/2"	AL	4-1/2"	EB	N/A	?	?	?	N/A	?	EXT	-
W105	W105F	6'-0"	7'-0"	1-3/4"	AL	EB	GL7	1/2"	AL	4-1/2"	EB	N/A	?	?	?	N/A	?	EXT	-
W106	W106	3'-0"	7'-0"	1-3/4"	SCW	IF	?	3/4"	STL	7 3/4"	IF	N/A	?	?	?	3/4 HR	?	W107	-
W107	W107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NOT USED
W108	W108A	6'-0"	7'-0"	1-3/4"	STL	ECC	N/A	1/2"	STL	7-3/4"	ECC	N/A	?	?	?	N/A	?	EXT	-
W108	W108B	6'-0"	12'-0"	2"	WD	IG	N/A	3/4"	STL	7 3/4"	IG	N/A	?	?	?	N/A	?	N/A	BARN SLIDER
W108	W108C	6'-0"	12'-0"	2"	WD	IG	N/A	3/4"	STL	7 3/4"	IG	N/A	?	?	?	N/A	?	N/A	BARN SLIDER
W109	W109	3'-0"	7'-0"	1-3/4"	SCW	IF	?	3/4"	STL	7 3/4"	IF	N/A	?	?	?	N/A	?	N/A	-
W110	W110	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	7 3/4"	IL	N/A	?	?	?	N/A	?	N/A	-
W111	W111A	6'-0"	7'-0"	1-3/4"	STL	ED	GL7	1/2"	STL	7-3/4"	ED	N/A	?	?	?	N/A	?	EXT	-
W111	W111B	3'-0"	7'-0"	1-3/4"	STL	EE	GL7	1/2"	STL	7-3/4"	EE	N/A	?	?	?	N/A	?	EXT	-
W111	W111C	6'-0"	7'-0"	N/A	N/A	N/A	N//A	N/A	STL	7 3/4"	IH	N/A	?	?	?	N/A	?	N/A	FRAME ONLY
W112	W112	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	7 3/4"	IC	N/A	?	?	?	3/4 HR	?	W102	-
W113	W113	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	7 3/4"	IC	N/A	?	?	?	N/A	?	N/A	-
W114	W114A	6'-0"	8'-0"	1-3/4"	AL	EB	GL7	1/2"	AL	4-1/2"	EB	N/A	?	?	?	N/A	?	EXT	-
W114	W114B	6'-0"	7'-0"	1-3/4"	AL	IJ	GL7	3/4"	AL	4-1/2"	IJ	N/A	?	?	?	N/A	?	A105	-
W114	W114C	6'-0";	7'-0"	1-3/4"	SCW	ID	N/A	3/4"	STL	7 3/4"	ID	N/A	?	?	?	?	?	W102	
W115	W115	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	7 3/4"	IC	N/A	?	?	?	N/A	?	N/A	-
W116	W116	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	7 3/4"	IC	N/A	?	?	?	N/A	?	W102	-
ADMINISTRATIVE																			
A101	A101A	6'-0"	7'-0"	1-3/4"	AL	EF	GL7	1/2"	AL	4-1/2"	EF	N/A	?	?	?	N/A	?	EXT	-
A101	A101B	6'-0"	7'-0"	1-3/4"	AL	IJ	GL7	1/2"	AL	4-1/2"	IJ	N/A	?	?	?	N/A	?	N/A	-
A102	A102A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
A102	A102B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
A102.1	A102.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
A103	A103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NOT USED
A104	A104	6'-0"	7'-0"	1-3/4"	AL	EF	GL7	1/2"	AL	4-1/2"	EF	N/A	?	?	?	N/A	?	EXT	-
A105	A105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NOT USED
A106	A106	3'-0"	7'-0"	1-3/4"	SCW	IE	N/A	3/4"	STL	7 3/4"	IE	N/A	?	?	?	N/A	?	A108	-
A107	A107	3'-0"	7'-0"	1-3/4"	SCW	IF	?	3/4"	STL	7 3/4"	IF	N/A	?	?	?	3/4 HR	?	A108	-
A108	A108	6'-0"	7'-0"	1-3/4"	AL	IJ	GL7	1/2"	AL	4-1/2"	IJ	N/A	?	?	?	N/A	?	N/A	-
EDUCATION																			
E101	E101A	6'-0"	7'-0"	N/A	N/A	N/A	N//A	N/A	STL	5 3/4"	IH	N/A	?	?	?	N/A	?	N/A	FRAME ONLY
E101	E101B	6'-0"	7'-0"	N/A	N/A	N/A	N//A	N/A	STL	5 3/4"	IH	N/A	/	/	/	N/A	?	N/A	FRAME ONLY
E102	E102	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	5-3/4"	IC	N/A	?	?	?	N/A	?	N/A	-
E103	E103	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	5-3/4"	IC	N/A	?	?	?	N/A	?	E104	-
E104	E104A	3'-0"	7'-0"	1-3/4"	STL	EE	GL7	1/2"	STL	7-3/4"	EE	N/A	?	?	?	N/A	?	EXT	-
E104	E104B	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	N/A	?	E105	-
E105	E105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NOT USED
E106	E106A	3'-0"	7'-0"	1-3/4"	STL	EE	GL7	1/2"	STL	7-3/4"	EE	N/A	?	?	?	N/A	?	EXT	-
E106	E106B	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	N/A	?	E105	-
E107	E107A	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	5-3/4"	IC	N/A	?	?	?	N/A	?	E108	-
E107	E107B	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	5-3/4"	IC	N/A	?	?	?	N/A	?	E104	-
E108	E108A	3'-0"	7'-0"	1-3/4"	STL	EE	GL7	1/2"	STL	7-3/4"	EE	N/A	?	?	?	N/A	?	EXT	-
E108	E108B	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	N/A	?	E105	-
E109	E109	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	3/4 HR	?	E110	-
E110	E110A	6'-0"	7'-0"	1-3/4"	AL	EG	GL7	1/2"	AL	4-1/2"	EG	N/A	?	?	?	N/A	?	EXT	-
E110	E110B	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	1 HR	?	N/A	-
E111	E111	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	N/A	?	E110	-
E112	E112	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	N/A	?	E105	-
E113	E113	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	N/A	?	E105	-
E114	E114	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	N/A	?	E105	-
E115	E115	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	N/A	?	E101	-
E116	E116	3'-0"	7'-0"	1-3/4"	SCW	IF	N/A	3/4"	STL	5-3/4"	IF	N/A	?	?	?	N/A	?	N/A	BARN SLIDER
E117	E117	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	N/A	?	E101	-
E118	E118A	3'-0"	7'-0"	1-3/4"	STL	EC	N/A	1/2"	STL	7-3/4"	EC	N/A	?	?	?	N/A	?	EXT	-
E118	E118B	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	N/A	?	N/A	-
E119	E119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NOT USED
E120	E120A	6'-0"	7'-0"	1-3/4"	AL	EG	GL7	1/2"	AL	4-1/2"	EG	N/A	?	?	?	N/A	?	EXT	-
E120	E120B	6'-0"	7'-0"	1-3/4"	AL	IJ	GL7	1/2"	AL	4-1/2"	IJ	N/A	?	?	?	N/A	?	N/A	-
E121	E121	3'-0"	7'-0"	1-3/4"	SCW	IL	GL7	3/4"	STL	5-3/4"	IL	N/A	?	?	?	3/4 HR	?	E119	-
E122	E122	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	5-3/4"	IC	N/A	?	?	?	N/A	?	N/A	-
MEZZANINE																			
M201	M201A	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	7 3/4"	IC	N/A	?	?	?	N/A	?	N/A	SEE SHT A.1,1.3
M201	M201B	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	7 3/4"	IC	N/A	?	?	?	N/A	?	N/A	SEE SHT A.1,1.3
M201	M201C	3'-0"	7'-0"	1-3/4"	SCW	IC	N/A	3/4"	STL	7 3/4"	IC	N/A	?	?	?	N/A	?	N/A	SEE SHT A.1,1.3



PROJ. NORTH

OVERALL FIRST FLOOR PLAN

SCALE: N T S

ALPHA BLDG SET 05-16-2025

GM Architect
102 Sammy Court
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ARCHITECT

STATE OF GEORGIA · GARY L. McNUTT · CERTIFICATE NO. 20 · REGISTERED ARCHITECT

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CONSULTANT

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SUNBELT BUILDERS
10641 HIGHWAY 36
COVINGTON, GA 30014
770.786.3031

OPENINGS SCHEDULES

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P1
DATE:	08.04.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW
DATE:	01.02.25
DESCRIPTION:	BID-CONSTRUCTION
DATE:	01.21.25
REVISIONS:	
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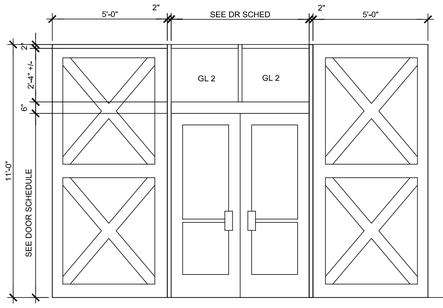
SHEET

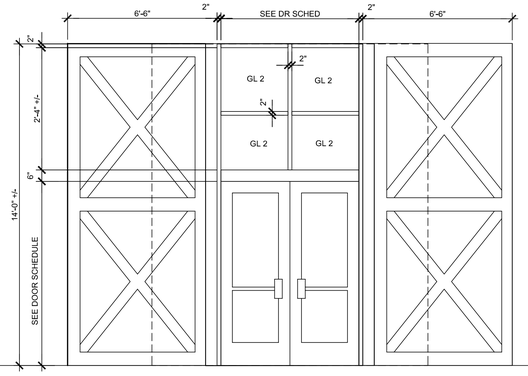
A8.1

OF

ALPHA BLDG SET 05-16-2025



EA
KAWNEER TRIFAB 451T STOREFRONT SYSTEM
CAPTIONED 4 SIDES
KAWNEER 550 STANDARD ENTRANCE DOOR



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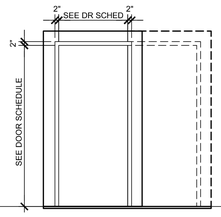
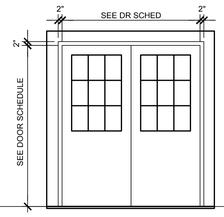
KAWNEER TRIFAB 451T STOREFRONT SYSTEM
CAPTIONED 4 SIDES
KAWNEER 550 STANDARD ENTRANCE DOOR



EC ECC
EXT. FRAMES: FULL PROFILE WELDED,
LEVEL 1, 0.042 INCH STL SHEET
EXT. DOORS: LEVEL 1, PP LEVEL C, MODEL 1



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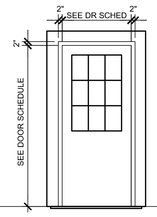
LEVEL 1, 0.042 INCH STL SHEET
EXT. DOORS: LEVEL 1, PP LEVEL C, MODEL 1



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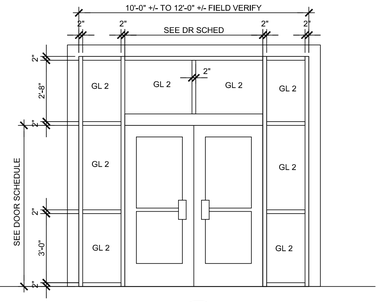
EXT. FRAMES: FULL PROFILE WELDED,
LEVEL 1, 0.042 INCH STL SHEET
EXT. DOORS: LEVEL 1, PP LEVEL C, MODEL 1



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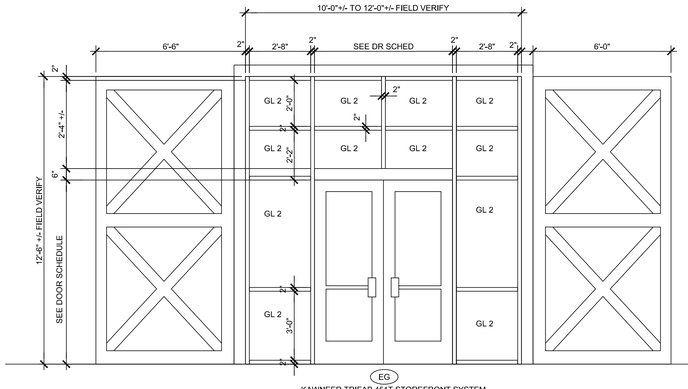
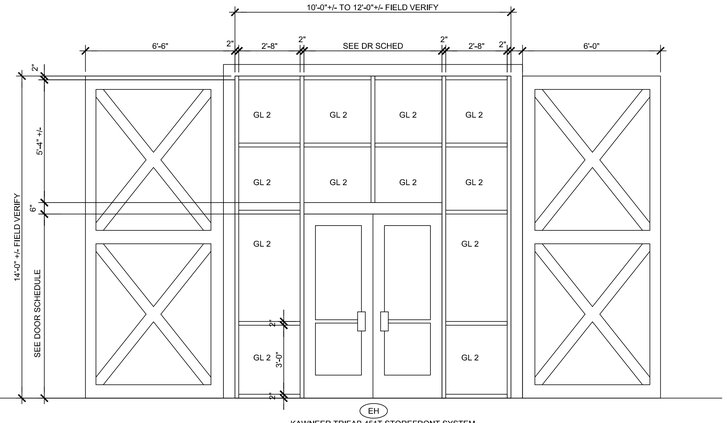
KAWNEER TRIFAB 451T STOREFRONT SYSTEM
CAPTIONED 4 SIDES
KAWNEER 550 STANDARD ENTRANCE DOOR



EG
KAWNEER TRIFAB 451T STOREFRONT SYSTEM
CAPTIONED 4 SIDES
KAWNEER 550 STANDARD ENTRANCE DOOR



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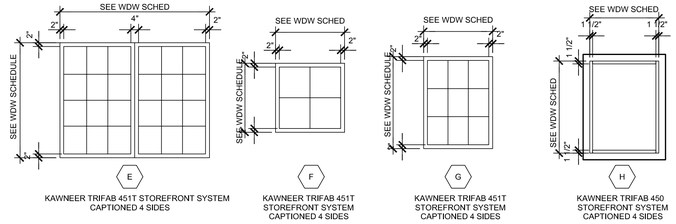
CAPTIONED 4 SIDES
KAWNEER 550 STANDARD ENTRANCE DOOR



E
KAWNEER TRIFAB 451T STOREFRONT SYSTEM
CAPTIONED 4 SIDES

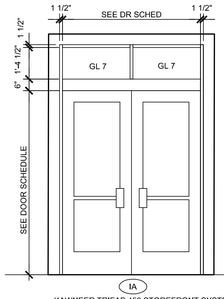
F
KAWNEER TRIFAB 451T
STOREFRONT SYSTEM
CAPTIONED 4 SIDES

G
KAWNEER TRIFAB 451T
STOREFRONT SYSTEM
CAPTIONED 4 SIDES

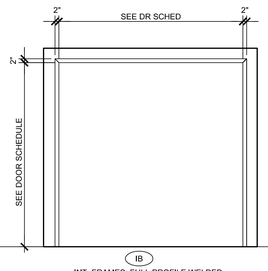
H
KAWNEER TRIFAB 450
STOREFRONT SYSTEM
CAPTIONED 4 SIDES

EXTERIOR DOOR & FRAME ELEVATIONS (TYPES)

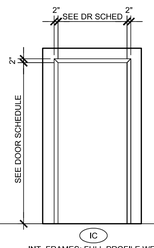
SCALE: 3/8" = 1'-0"



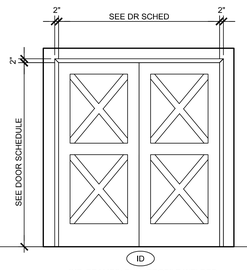
IA
KAWNEER TRIFAB 450 STOREFRONT SYSTEM
CAPTIONED 4 SIDES
KAWNEER 550 STANDARD ENTRANCE DOOR



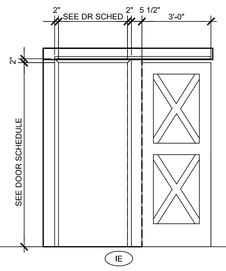
IB
INT. FRAMES: FULL PROFILE WELDED,
LEVEL 1, 0.042 INCH STL SHEET
STEEL FRAME ONLY



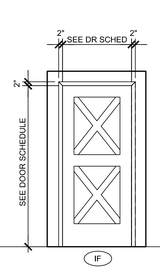
IC
INT. FRAMES: FULL PROFILE WELDED,
LEVEL 1, 0.042 INCH STL SHEET
INT. DOORS: SOLID-CORE WOOD,
WDMA 1.S.1-A, HEAVY DUTY



ID
INT. FRAMES: FULL PROFILE WELDED,
LEVEL 1, 0.042 INCH STL SHEET
INT. DOORS: SOLID-CORE WOOD, PANEL
WDMA 1.S.1-A, HEAVY DUTY



IE
INT. FRAMES: FULL PROFILE WELDED,
LEVEL 1, 0.042 INCH STL SHEET
INT. DOORS: SOLID-CORE WOOD, PANEL
WDMA 1.S.1-A, HEAVY DUTY



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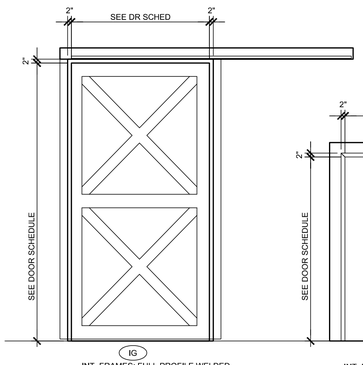
WDMA 1.S.1-A, HEAVY DUTY



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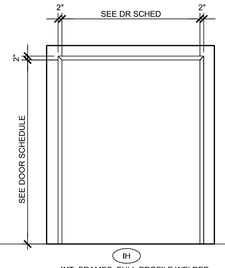
LEVEL 1, 0.042 INCH STL SHEET
INT. DOORS: SOLID-CORE WOOD, PANEL
WDMA 1.S.1-A, HEAVY DUTY



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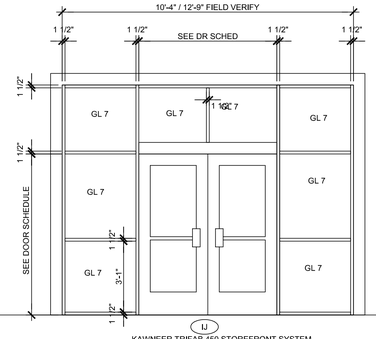
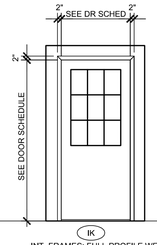
INT. FRAMES: FULL PROFILE WELDED,
LEVEL 1, 0.042 INCH STL SHEET
STEEL FRAME ONLY



IJ
KAWNEER TRIFAB 450 STOREFRONT SYSTEM
CAPTIONED 4 SIDES
KAWNEER 550 STANDARD ENTRANCE DOOR



IK
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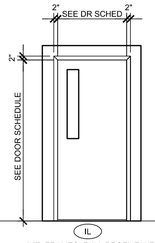
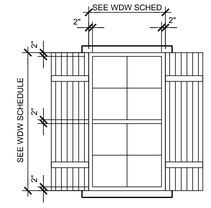
LEVEL 1, 0.042 INCH STL SHEET
INT. DOORS: SOLID-CORE WOOD,
WDMA 1.S.1-A, HEAVY DUTY



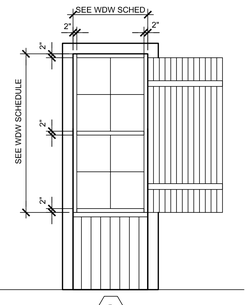
IL
INT. FRAMES: FULL PROFILE WELDED,
LEVEL 1, 0.042 INCH STL SHEET
INT. DOORS: SOLID-CORE WOOD,
WDMA 1.S.1-A, HEAVY DUTY

INTERIOR DOOR & FRAME ELEVATIONS (TYPES)

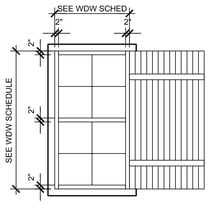
SCALE: 3/8" = 1'-0"



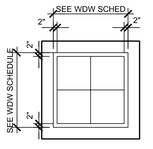
C
KAWNEER TRIFAB 451T
STOREFRONT SYSTEM
CAPTIONED 4 SIDES



D
KAWNEER TRIFAB 451T
STOREFRONT SYSTEM
CAPTIONED 4 SIDES



A
KAWNEER TRIFAB 451T
STOREFRONT SYSTEM
CAPTIONED 4 SIDES



B
KAWNEER TRIFAB 451T
STOREFRONT SYSTEM
CAPTIONED 4 SIDES

WINDOW ELEVATIONS (TYPES)

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

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CONSULTANT

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SUNBELT BUILDERS
10641 HIGHWAY 36
COVINGTON, GA 30014
770.786.3031

OPENING ELEVATIONS

Retrofit & Renovations for Madison Methodist Church

Madison, Georgia 30650
1091 Confederate Highway

JOB NO.:	02405
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P1
DATE:	08.04.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW
DATE:	01.02.25
DESCRIPTION:	BID-CONSTRUCTION
DATE:	01.21.25
REVISIONS:	
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OF

FINISH SCHEDULE

ABBREVIATIONS:

ACP	ACOUSTICAL CEILING PANELS	EPT	ENAMEL PANT	N/A	NOT APPLICABLE(NONE)	SS	SOLID SURFACE MATERIAL
BRK	BRICK	EHP	EXTERIOR HIGH PERFORMANCE COATING	PN.	PINE	STN	STONE
BRK-P	BRICK PAVERS	EPT	EXTERIOR PAINT SYSTEM	PLAS.	PLASTER	TRZ	TERRAZZO
CB	CERAMIC BASE	ES	EXPOSED STRUCTURE	PC	POLISHED CONCRETE	U	UNFINISHED
CFT	CERAMIC FLOOR TILE	EXG	EXISTING	PT.	PAINT	UND.	UNDERLAYMENT BOARD
CWT	CERAMIC WALL TILE	FF	FACTORY FINISH	PLYWD.	PLYWOOD.	VRN	VARNISH
CMU	CONCRETE MASONRY UNIT	GBB	GYPSUM BACKING BOARD	QT	QUARRY TILE	VCT	VINYL COMPOSITION TILE
CPT	CARPET	GYP.	GYPSUM BOARD	RB	RUBBER BASE	VS	VINYL SHEET FLOORING
CPT-T	CARPET TILE	GYP. X	GYPSUM BOARD, TYPE "X"	RCP	REFLECTED CEILING PLAN	WOC	WALK-OFF-CARPET
CS	CONC. SEALER	HPC	HIGH PERFORMANCE COATING	SHTG	SHEATHING	WC	WALL COVERING
CONC.	CONCRETE	IHP	INTERIOR HIGH PERFORMANCE COATING	SLT	SLATE	WD.	WOOD
		IPT	INTERIOR PAINT SYSTEM	S	STAIN	WP	WOOD PANEL

NOTE: AN ABBREVIATION PRECEDED WITH AN "E" INDICATES AN EXISTING CONDITION, MATERIAL, FINISH, ETC. NOTE: AN ABBREVIATION PRECEDED WITH AN "R" INDICATES AN EXISTING MATERIAL REFINISHED AND REUSED.

SPACE		FLOOR		BASE			WAINSCOT				WALLS									CEILING				REMARKS
											NORTH		EAST		SOUTH		WEST		D./W.					
RM. NO.	ROOM NAME	MAT'L	FIN	MAT'L	FIN	TYPE	MAT'L	FIN	TYPE	C. R. TYPE	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	TRIM	MAT'L	FIN	HEIGHT	CORN TYPE	
W101	ENTRY	CONC	WOC	WD	S	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	GYPX/WD	PT	12'-0"	N/A	NOTE 5 & 6
W102	LOBBY	CONC	CPT	WD	S	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	GYPX/WD	PT	12'-0"	N/A	NOTE 5 & 6
W103	MECH/ELEC	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	GYPX	PT	14'-0"	N/A	NOTE 7
W104	AV CONTROLS	UND	CPT-T	WD	S	N/A	N/A	N/A	N/A	N/A	-	-	GYPX	PT	-	-	-	-	N/A	WD	PT	12'-0"	N/A	NOTE 4, 5, 6, & 7
W105	SANCTUARY	CONC	LVT	WD	S	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ES	PT	14'-0"	N/A	NOTE 5, 6, & 7
W106	STORAGE	CONC	CPT-T	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	GYPX	PT	16'-0"	N/A	-
W107	PODIUM	CONC	CPT-T	WD	S	N/A	N/A	N/A	N/A	N/A	GYPX	PT	-	-	GYPX	PT	GYPX	PT	N/A	ES	PT	18'-0"	N/A	NOTE 9
W108	SUPPORT	CONC	PC	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	GYPX	PT	10'-0"	N/A	-
W109	GREEN RM	CONC	CPT-T	WD	S	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	GYPX	PT	10'-0"	N/A	-
W110	PASSAGE	CONC	CPT-T	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
W111	CORRIDOR	CONC	CPT-T	WD	S	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
W112	MECH/ELEC	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	GYPX	PT	14'-0"	N/A	-
W113	WOMEN	CONC	CFT	CB	FF	N/A	N/A	N/A	N/A	N/A	GBB	CWT	GBB	CWT	GBB	CWT	GBB	CWT	N/A	GYPX	PT	13'-0"	N/A	-
W114	FELLOWSHIP HALL	CONC	PC	WD	S	N/A	N/A	N/A	N/A	N/A	E-WD	PT	E-WD	PT	E-WD	PT	E-WD	PT	N/A	ES	PT	14'-0"	N/A	NOTE 5, 6, & 7
W115	MEN	CONC	CFT	CB	FF	N/A	N/A	N/A	N/A	N/A	GBB	CWT	GBB	CWT	GBB	CWT	GBB	CWT	N/A	GYPX	PT	13'-0"	N/A	-
W116	RISER RM	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ES	PT	13'-0"	N/A	NOTE 7

FINISH NOTES:

1. PROPER PREPARATION OF SURFACES AND ADEQUATE CLEANING FOR BONDING OF PAINT IS AN ABSOLUTE NECESSITY. START OF PAINTING INSTALLATION AND OPERATIONS INDICATES ACCEPTANCE OF SUBSTRATE SURFACE CONDITIONS AND FULL RESPONSIBILITY FOR COMPLETED WORK.
2. WHERE EXISTING WALLS, FLOOR FINISHES, ETC. ARE SHOWN TO BE REMOVED, PROVIDE LEVEL SUBFLOOR SURFACE BY GRINDING DOWN THE EXISTING SLAB, PATCHING THE EXISTING SLAB, AND/OR INSTALLATION OF FLOOR LEVELING COMPOUND.
3. WHERE DIFFERENT FLOOR FINISHES MEET, PROVIDE & INSTALL VINYL TRANSITION, UNLESS OTHERWISE NOTED.
4. AV CONTROLS AREA WALLS TO BE CABINETRY FINISHES.
5. SEE INTERIOR ELEVATIONS FOR WALL FINISHES OTHER THAN GYPSUM WALL BOARD.
6. SEE REFLECTED CEILING PLANS FOR CEILINGS OTHER THAN EXPOSED STRUCTURE, GYPSUM BOARD, AND ACOUSTICAL CEILING PANELS.
7. EXTERIOR WALL INTERIOR FINISH: WOOD SIDING THROUGHOUT WILL BE REMOVED. INSTALL NEW FINISHES AFTER INSTALLATION OF WALL INSULATION, ELECTRICAL, PLUMBING, ETC.
8. SEE FLOOR PLAN FOR FLOOR FINISHES OTHER THAN EXPOSED CONCRETE.
9. PODIUM TREADS AND RISERS TO BE WOOD RECLAIMED FROM EXISTING SIDING.

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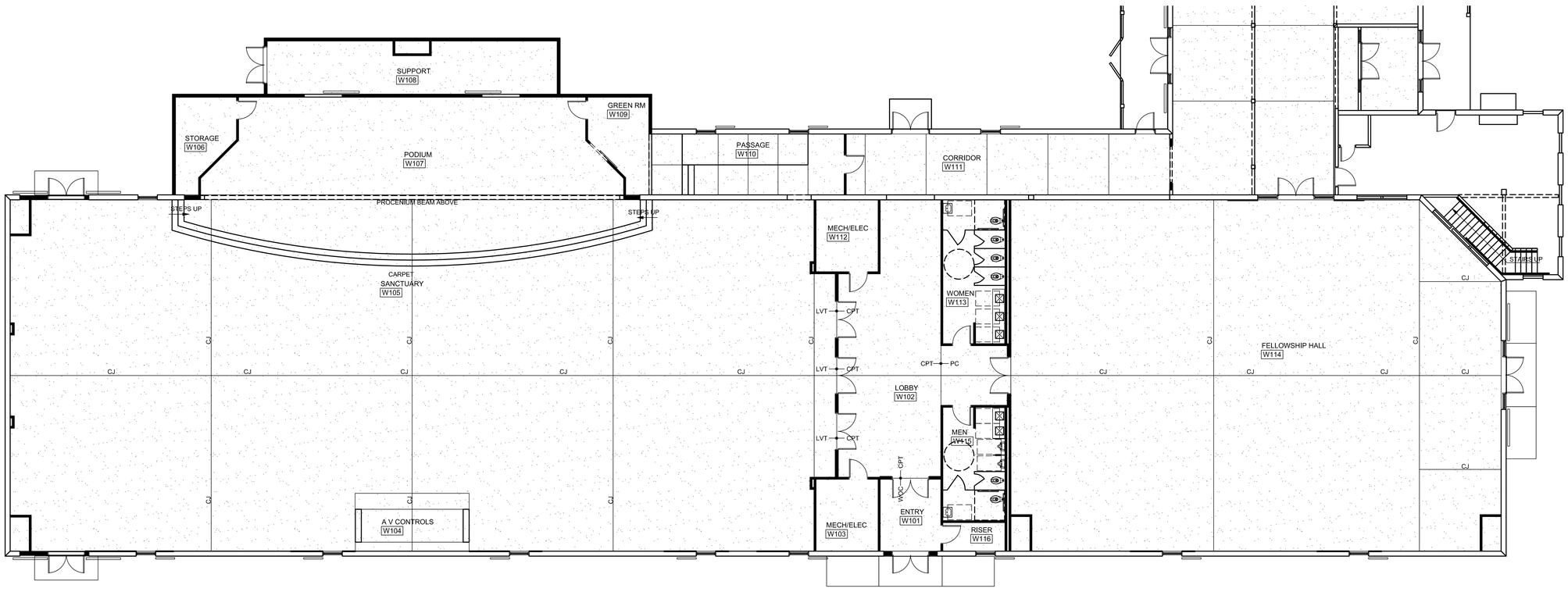

PROJ NORTH

FIRST FLOOR PLAN: WORSHIP-FELLOWSHIP HALL-PHASE I

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

SCALE IN FEET

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SUNBELT BUILDERS

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FINISH FLOOR PLAN, NOTES, & FINISH SCHEDULES

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P1
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FINISH SCHEDULE

ABBREVIATIONS:

ACP	ACOUSTICAL CEILING PANELS	EPT	ENAMEL PANT	N/A	NOT APPLICABLE(NONE)	SS	SOLID SURFACE MATERIAL
BRK	BRICK	EHP	EXTERIOR HIGH PERFORMANCE COATING	PN.	PINE	STN	STONE
BRK-P	BRICK PAVERS	EPT	EXTERIOR PAINT SYSTEM	PLAS.	PLASTER	TRZ	TERRAZZO
CB	CERAMIC BASE	ES	EXPOSED STRUCTURE	PC	POLISHED CONCRETE	U	UNFINISHED
CFT	CERAMIC FLOOR TILE	EXG	EXISTING	PT.	PAINT	UND.	UNDERLAYMENT BOARD
CWT	CERAMIC WALL TILE	FF	FACTORY FINISH	PLYWD.	PLYWOOD.	VRN	VARNISH
CMU	CONCRETE MASONRY UNIT	GBB	GYPSUM BACKING BOARD	QT	QUARRY TILE	VCT	VINYL COMPOSITION TILE
CPT	CARPET	GYP.	GYPSUM BOARD	RB	RUBBER BASE	VS	VINYL SHEET FLOORING
CPT-T	CARPET TILE	GYP. X	GYPSUM BOARD, TYPE "X"	RCP	REFLECTED CEILING PLAN	WOC	WALK-OFF-CARPET
CS	CONC. SEALER	HPC	HIGH PERFORMANCE COATING	SHTG	SHEATHING	WC	WALL COVERING
CONC.	CONCRETE	IHP	INTERIOR HIGH PERFORMANCE COATING	SLT	SLATE	WD.	WOOD
		IPT	INTERIOR PAINT SYSTEM	S	STAIN	WP	WOOD PANEL

NOTE: AN ABBREVIATION PRECEDED WITH AN "E" INDICATES AN EXISTING CONDITION, MATERIAL, FINISH, ETC. NOTE: AN ABBREVIATION PRECEDED WITH AN "R" INDICATES AN EXISTING MATERIAL REFINISHED AND REUSED.

SPACE		FLOOR		BASE			WAINSCOT				WALLS									CEILING				REMARKS
										C. R.	NORTH		EAST		SOUTH		WEST		D./W.				CORN	
RM. NO.	ROOM NAME	MAT'L	FIN	MAT'L	FIN	TYPE	MAT'L	FIN	TYPE	TYPE	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	TRIM	MAT'L	FIN	HEIGHT	TYPE	
A101	ENTRY	CONC	WOC	WD	PT	N/A	N/A	N/A	N/A	N/A	R-WD	PT	R-WD	PT	R-WD	PT	R-WD	PT	N/A	GYPX	PT	EXG	N/A	NOTE 7
A102	LOBBY/RECEPTION	E-CONC	E-LVT	E-WD	PT	N/A	N/A	N/A	N/A	N/A	E-WD	E-PT	E-WD	E-PT	E-WD	E-PT	E-WD	E-PT	N/A	GYPX	PT	EXG	N/A	-
A102.1	SUPPLY	E-CONC	LVT	E-WD	PT	N/A	N/A	N/A	N/A	N/A	E-WD	E-PT	E-WD	E-PT	E-WD	E-PT	E-WD	E-PT	N/A	GYPX	PT	EXG	N/A	-
A103	STAIR	E-CONC	E-LVT	E-WD	E-PT	N/A	N/A	N/A	N/A	N/A	E-WD	E-PT	E-WD	E-PT	E-WD	E-PT	E-WD	E-PT	N/A	GYPX	PT	EXG	N/A	-
A104	GATHERING	CONC	BRK-P	WD	PT	N/A	N/A	N/A	N/A	N/A	R-WD	PT	R-WD	PT	R-WD	PT	R-WD	PT	N/A	GYPX	PT	EXG	N/A	NOTE 7
A105	COFFEE	CONC	BRK-P	WD	PT	N/A	N/A	N/A	N/A	N/A	R-WD	PT	R-WD	PT	R-WD	PT	R-WD	PT	N/A	GYPX	PT	EXG	N/A	NOTE 7
A106	SERVE	E-CONC	BRK-P	WD	PT	N/A	N/A	N/A	N/A	N/A	R-WD	PT	-	-	R-WD	PT	R-WD	PT	N/A	GYPX	PT	EXG	N/A	NOTE 7
A107	SUPPORT	E-CONC	BRK-P	WD	PT	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	GYPX	PT	EXG	N/A	NOTE 7

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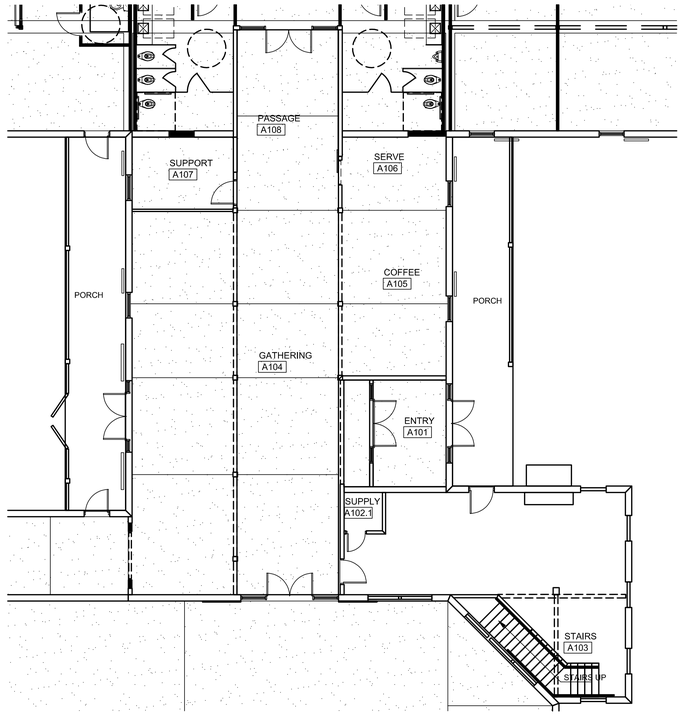

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FINISH FLOOR PLAN, NOTES, & FINISH SCHEDULES

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FINISH SCHEDULE

ABBREVIATIONS:

ACP	ACOUSTICAL CEILING PANELS	EPT	ENAMEL PANT	N/A	NOT APPLICABLE(NONE)	SS	SOLID SURFACE MATERIAL
BRK	BRICK	EHP	EXTERIOR HIGH PERFORMANCE COATING	PN.	PINE	STN	STONE
BRK-P	BRICK PAVERS	EPT	EXTERIOR PAINT SYSTEM	PLAS.	PLASTER	TRZ	TERRAZZO
CB	CERAMIC BASE	ES	EXPOSED STRUCTURE	PC	POLISHED CONCRETE	U	UNFINISHED
CFT	CERAMIC FLOOR TILE	EXG	EXISTING	PT.	PAINT	UND.	UNDERLAYMENT BOARD
CWT	CERAMIC WALL TILE	FF	FACTORY FINISH	PLYWD.	PLYWOOD.	VRN	VARNISH
CMU	CONCRETE MASONRY UNIT	GBB	GYPSUM BACKING BOARD	QT	QUARRY TILE	VCT	VINYL COMPOSITION TILE
CPT	CARPET	GYP.	GYPSUM BOARD	RB	RUBBER BASE	VS	VINYL SHEET FLOORING
CPT-T	CARPET TILE	GYP. X	GYPSUM BOARD, TYPE "X"	RCP	REFLECTED CEILING PLAN	WOC	WALK-OFF-CARPET
CS	CONC. SEALER	HPC	HIGH PERFORMANCE COATING	SHTG	SHEATHING	WC	WALL COVERING
CONC.	CONCRETE	IHP	INTERIOR HIGH PERFORMANCE COATING	SLT	SLATE	WD.	WOOD
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SPACE		FLOOR		BASE			WAINSCOT				WALLS									CEILING				REMARKS
											NORTH		EAST		SOUTH		WEST		D./W.					
RM. NO.	ROOM NAME	MAT'L	FIN	MAT'L	FIN	TYPE	MAT'L	FIN	TYPE	C. R. TYPE	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	TRIM	MAT'L	FIN	HEIGHT	CORN TYPE	
E101	THE CROSS	CONC	LVT	WD	S	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	R-WD	S	10'-0"	N/A	NOTE 6
E102	WOMEN	CONC	CFT	CB	FF	N/A	N/A	N/A	N/A	N/A	GBB	CWT	GBB	CWT	GBB	CWT	GBB	CWT	N/A	GYPX	PR	10'-0"	N/A	NOTE 5 & 6
E103	UNISEX	CONC	LVT	RB	FF	N/A	N/A	N/A	N/A	N/A	GBB	CWT	GBB	CWT	GBB	CWT	GBB	CWT	N/A	ACP	FF	9'-0"	N/A	SEE RCP
E104	NURSERY	CONC	LVT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E105	CORRIDOR	CONC	LVT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 6
E106	CLASSROOM	CONC	CPT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E107	UNISEX	CONC	LVT	RB	FF	N/A	N/A	N/A	N/A	N/A	GBB	CWT	GBB	CWT	GBB	CWT	GBB	CWT	N/A	ACP	FF	9'-0"	N/A	SEE RCP
E108	CLASSROOM	CONC	CPT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E109	STORAGE	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E110	STAIR	CONC	LVT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	GYPX	PT	18'-0"	N/A	NOTE 6 & 7
E111	STORAGE	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	PT	10'-0"	N/A	NOTE 7
E112	CLASSROOM	CONC	CPT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E113	CLASSROOM	CONC	CPT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E114	CLASSROOM	CONC	CPT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E115	CLASSROOM	CONC	CPT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E116	PRAYER	CONC	CPT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	R-WD	S	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E117	OFFICE	CONC	CPT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E118	STAIR	CONC	LVT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ES	PT	VARIES	N/A	NOTE 6 & 7
E119	CORRIDOR	CONC	LVT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	SEE RCP
E120	ASSEMBLY	CONC	PC	RB	FF	N/A	N/A	N/A	N/A	N/A	E-WD	PT	GYPX	PT	GYPX	PT	E-WD	PT	N/A	ES	PT	12'-0" +/-	N/A	NOTE 7
E121	STORAGE	CONC	CPT	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	10'-0"	N/A	NOTE 7
E122	MEN	CONC	CFT	CB	FF	N/A	N/A	N/A	N/A	N/A	GBB	CWT	GBB	CWT	GBB	CWT	GBB	CWT	N/A	ACP	FF	9'-0"	N/A	SEE RCP

FINISH NOTES:

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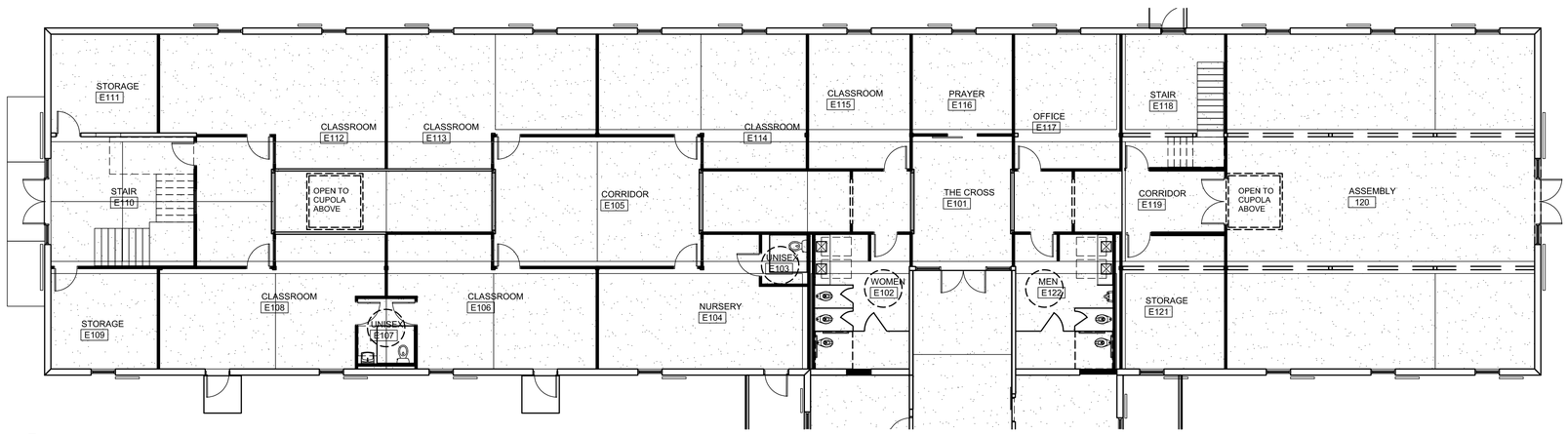

PROJ NORTH

FIRST FLOOR PLAN: EDUCATION-PHASE I

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FINISH FLOOR PLAN, NOTES, & FINISH SCHEDULES

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

JOB NO.:	02405
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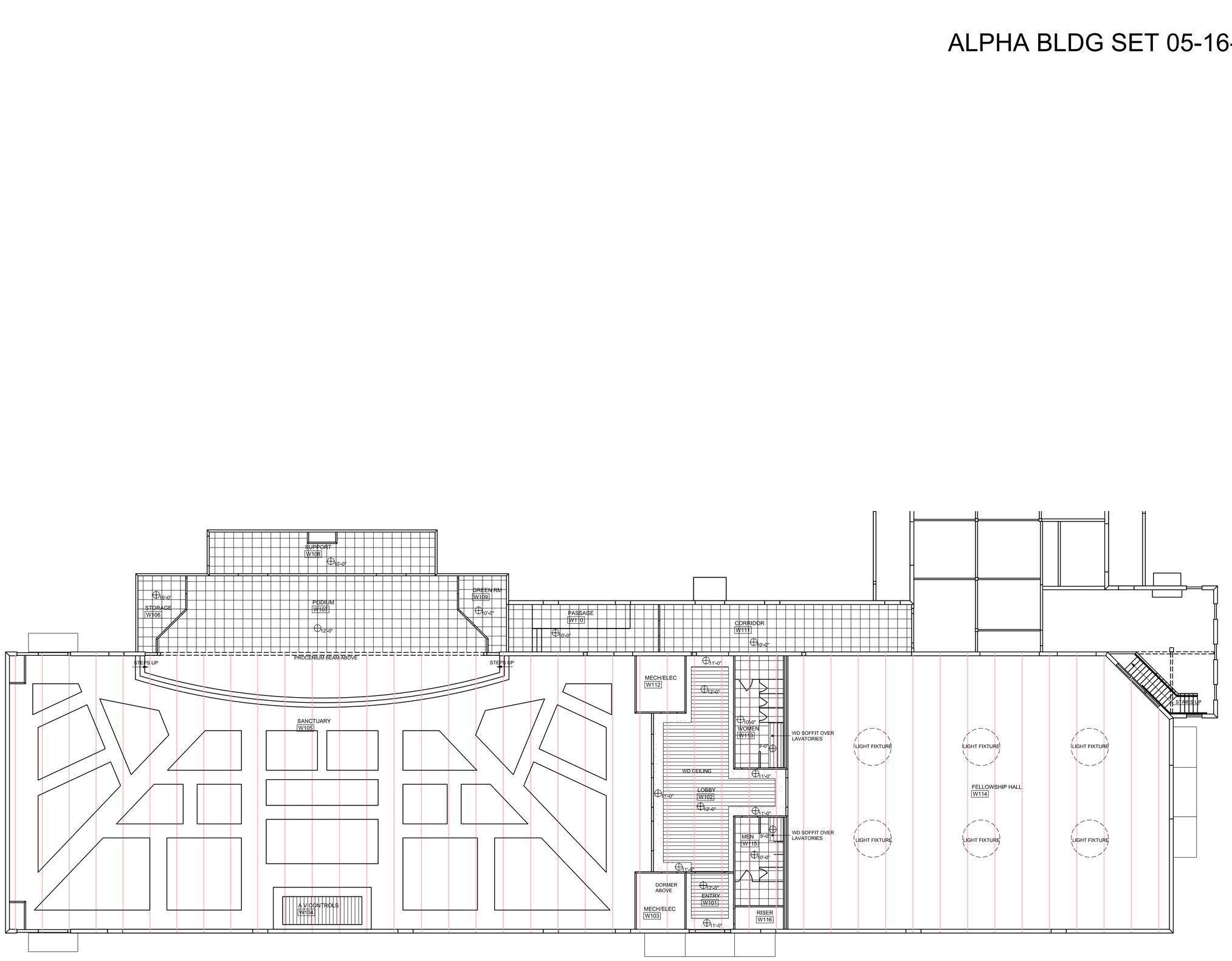

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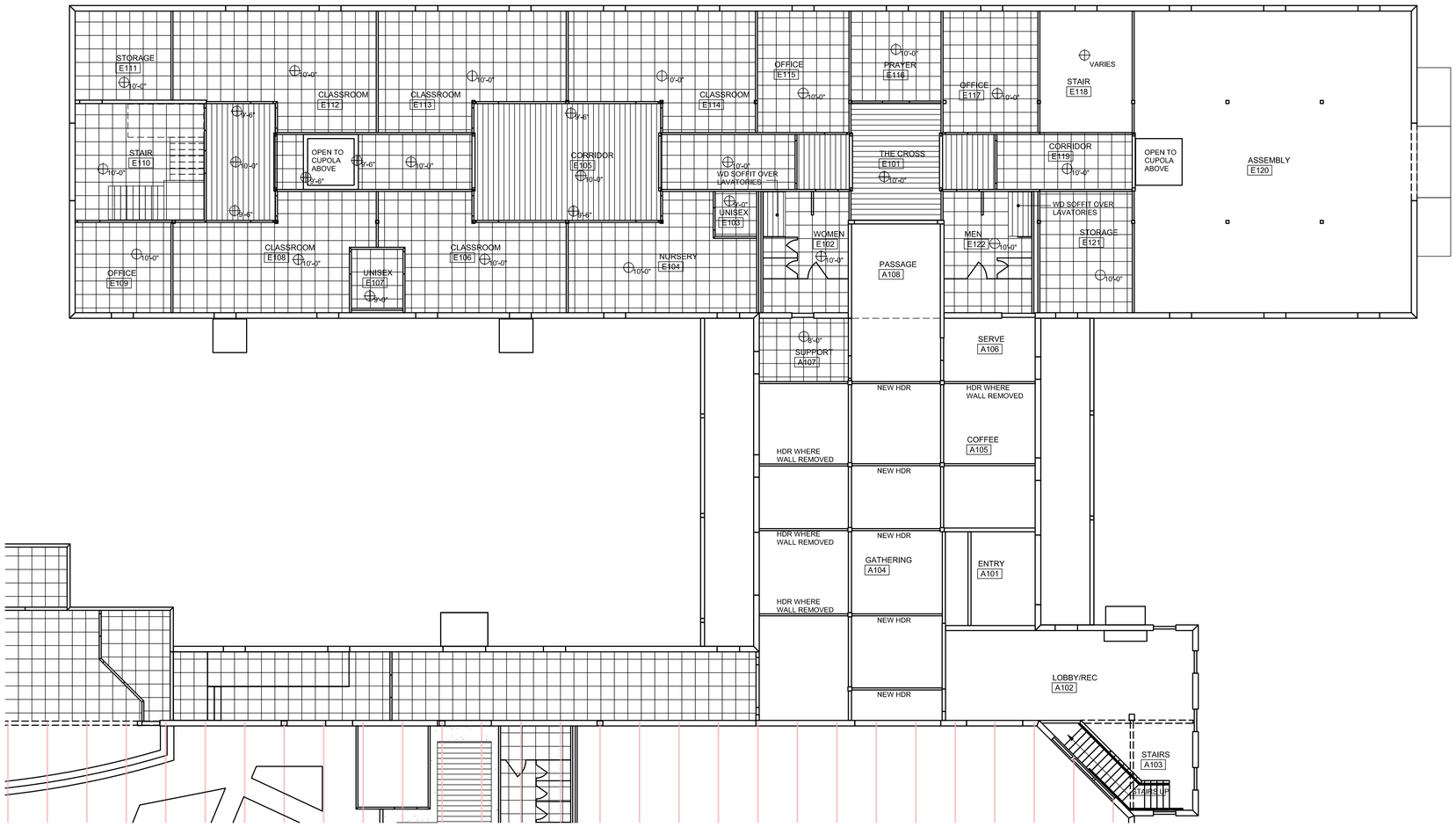

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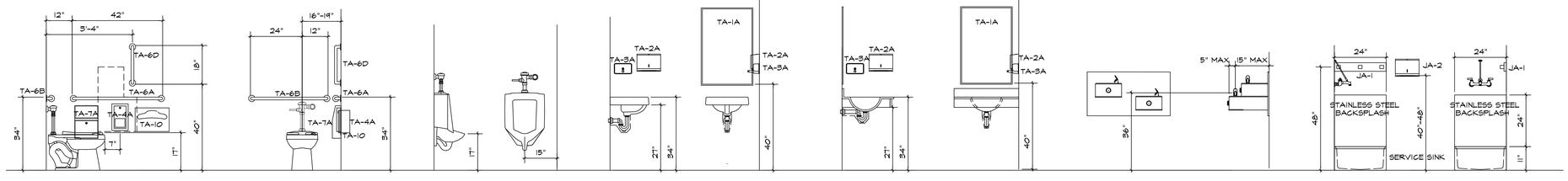
A9.2.2

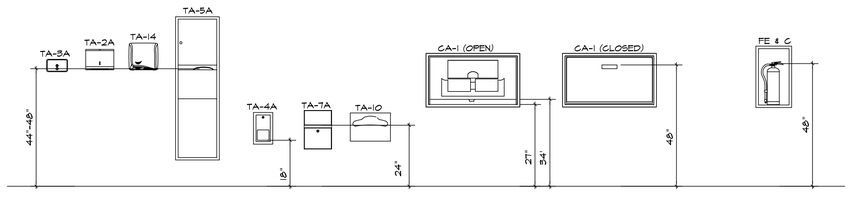
OF

ACCESSORY SCHEDULE	
TA-1A	MIRROR UNIT: 24X36
TA-1B	MIRROR UNIT: CUSTOM SIZE
TA-2A	PAPER TOWEL DISPENSER (FOLDED)
TA-2B	PAPER TOWEL DISPENSER (ROLLED)
TA-3A	SOAP DISPENSER
TA-4A	TOILET TISSUE DISPENSER (ROLLED)
TA-4B	COMBINATION TOILET TISSUE DISPENSER (ROLLED)
TA-4C	TOILET TISSUE DISPENSER (FOLDED)
TA-4D	TOILET TISSUE DISPENSER (JUMBO ROLLED)
TA-5A	COMBINATION TOWEL DISPENSER (FOLDED) / WASTE RECEPTACLE
TA-5B	COMBINATION TOWEL DISPENSER (ROLLED) / WASTE RECEPTACLE
TA-5C	MULTIPURPOSE SOAP / TOWEL DISPENSER
TA-6A	GRAB BAR 42
TA-6B	GRAB BAR 36
TA-6C	GRAB BAR 24
TA-6D	GRAB BAR 18
TA-7A	SANITARY NAPKIN DISPOSAL (WALL MOUNT)
TA-7B	SANITARY NAPKIN DISPOSAL (PARTITION MOUNT/DUAL ACCESS)
TA-8	ROBE HOOK
TA-9	WASTE RECEPTACLE
TA-10	SEAT COVER DISPENSER
TA-11	VENDING
TA-12	BAG SHELF
TA-13	SEAT COVER DISPENSER
TA-14	HAND DRYER
CA-1	CHANGING STATION
CA-2	CHILD PROTECTION SEAT
UG-1	UNDERLAVATORY GUARDS
JA-1	MOP AND BROOM HOLDER
JA-2	PAPER TOWEL DISPENSER

ALPHA BLDG SET 05-16-2025



TYPICAL ACCESSIBLE TOILET | TYPICAL ACCESSIBLE URINAL | TYP ACCESS WALL MOUNT SINK | TYP ACCESS WALL MOUNT LAVATORY | TYP ACCESS WALL MOUNT DRINKING FOUNTAINS | TYPICAL FLOOR MOUNT SERVICE SINK



TYPICAL MOUNTING AND LOCATION OF ACCESSORIES

INTERIOR ELEVATIONS: MOUNTING & LOCATION REQUIREMENTS

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

SCALE IN FEET 0 2 4

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770.786.3031

INTERIOR ELEVATIONS: MOUNTING, LOCATION, ETC.

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P1
DATE:	08.04.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW
DATE:	01.02.25
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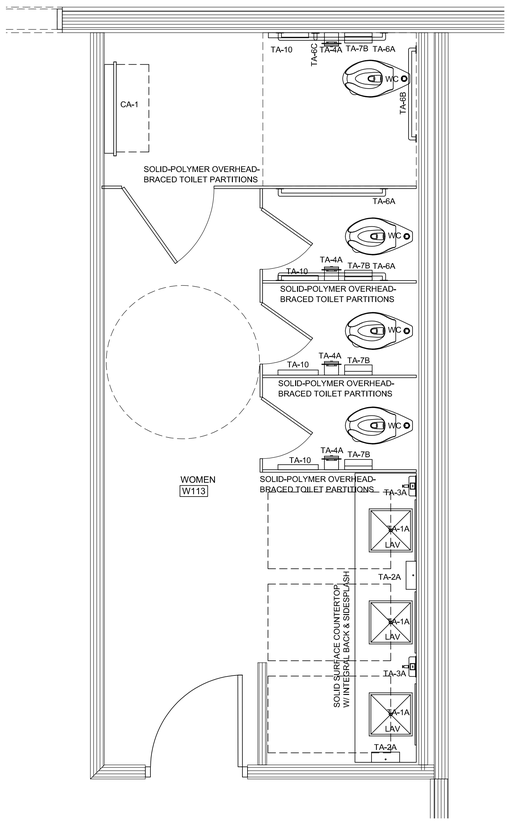
A9.3.0

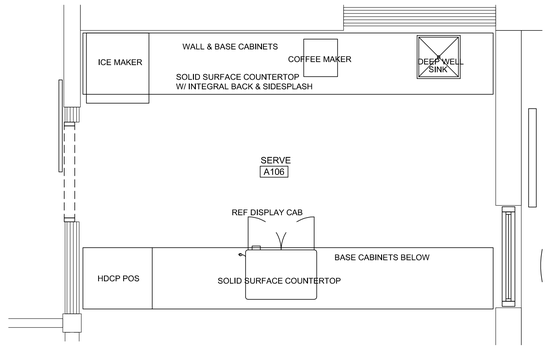
OF

ALPHA BLDG SET 05-16-2025

ACCESSORY SCHEDULE	
TA-1A	MIRROR UNIT: 24X36
TA-1B	MIRROR UNIT: CUSTOM SIZE
TA-2A	PAPER TOWEL DISPENSER (FOLDED)
TA-2B	PAPER TOWEL DISPENSER (ROLLED)
TA-3A	SOAP DISPENSER
TA-4A	TOILET TISSUE DISPENSER (ROLLED)
TA-4B	COMBINATION TOILET TISSUE DISPENSER (ROLLED)
TA-4C	TOILET TISSUE DISPENSER (FOLDED)
TA-4D	TOILET TISSUE DISPENSER (JUMBO ROLLED)
TA-5A	COMBINATION TOWEL DISPENSER (FOLDED) / WASTE RECEPTACLE
TA-5B	COMBINATION TOWEL DISPENSER (ROLLED) / WASTE RECEPTACLE
TA-5C	MULTIPURPOSE SOAP / TOWEL DISPENSER
TA-6A	GRAB BAR 42
TA-6B	GRAB BAR 36
TA-6C	GRAB BAR 24
TA-6D	GRAB BAR 18
TA-7A	SANITARY NAPKIN DISPOSAL (WALL MOUNT)
TA-7B	SANITARY NAPKIN DISPOSAL (PARTITION MOUNT/DUAL ACCESS)
TA-8	ROBE HOOK
TA-9	WASTE RECEPTACLE
TA-10	SEAT COVER DISPENSER
TA-11	VENDING
TA-12	BAG SHELF
TA-13	SEAT COVER DISPENSER
TA-14	HAND DRYER
CA-1	CHANGING STATION
CA-2	CHILD PROTECTION SEAT
UG-1	UNDERLAVATORY GUARDS
JA-1	MOP AND BROOM HOLDER
JA-2	PAPER TOWEL DISPENSER



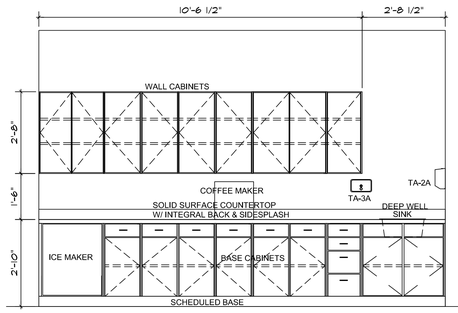
WOMEN W113



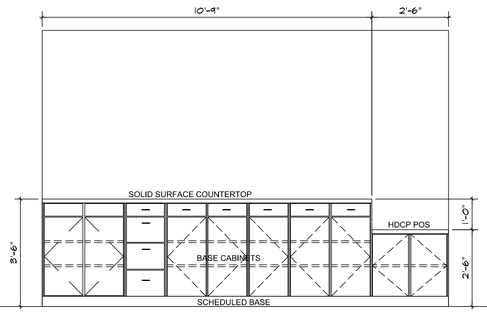
A1
A9.3.1.1
PROJ NORTH

ENLARGED PLAN: SERVE A106

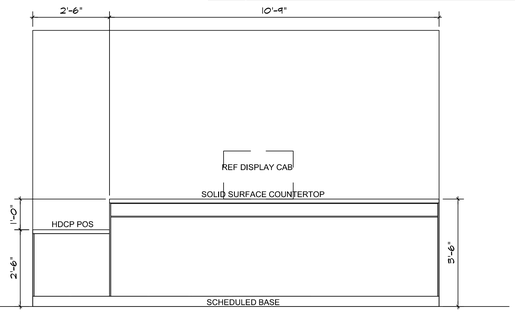
SCALE: 1/2" = 1'-0"



NORTH



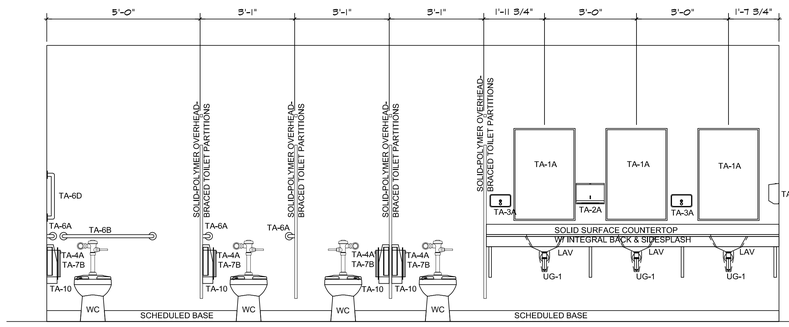
SOUTH



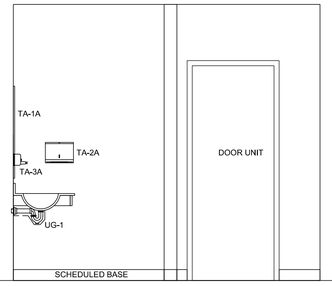
NORTH / COFFEE A105

INTERIOR ELEVATIONS: SERVE A106

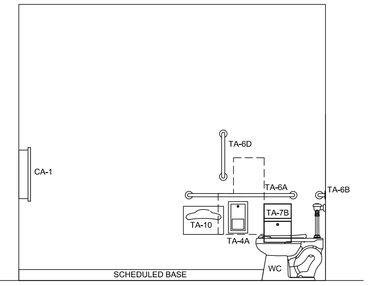
SCALE: 1/2"=1'-0"



NORTH

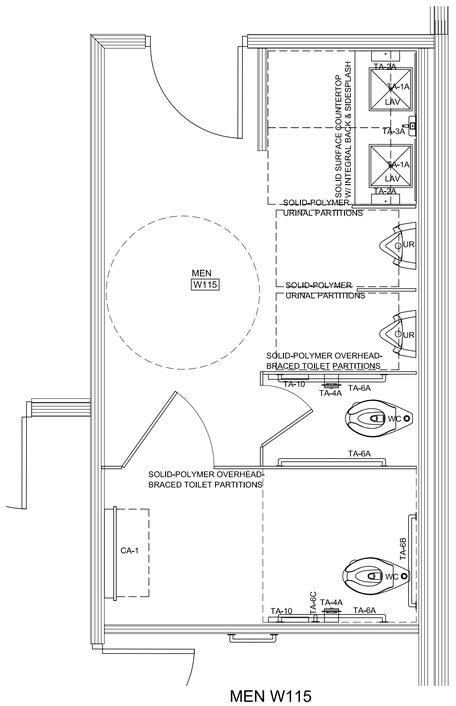


EAST

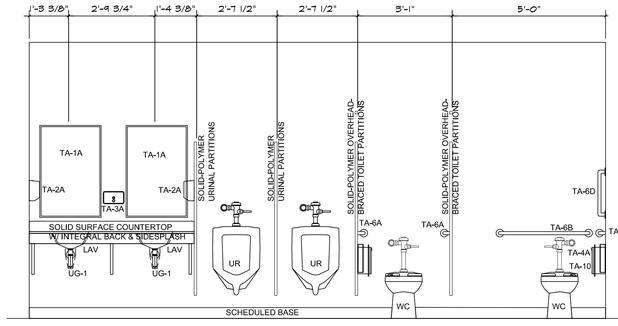


WEST

WOMEN W113



MEN W115



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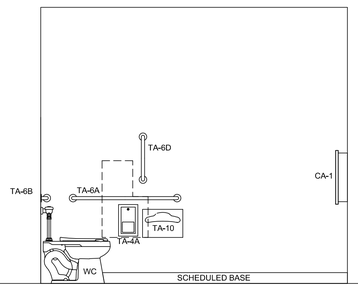

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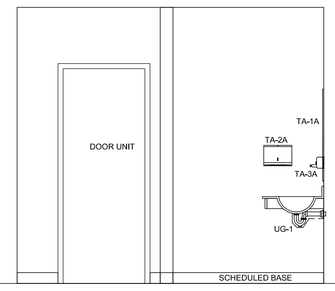

WEST

MEN W115

D1
A9.3.1.1
PROJ NORTH

ENLARGED PLANS: TOILET ROOMS

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

SCALE IN FEET

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ENLARGED PLANS & INTERIOR ELEVATIONS

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

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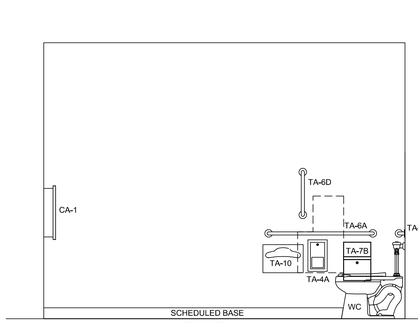
OF



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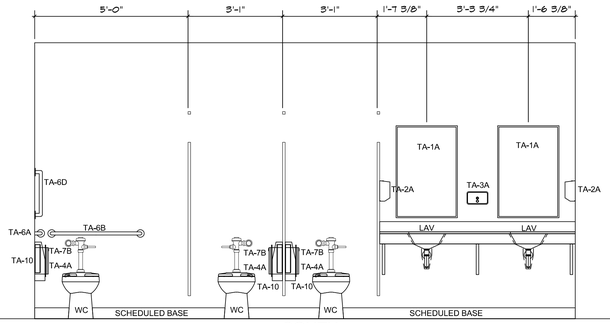
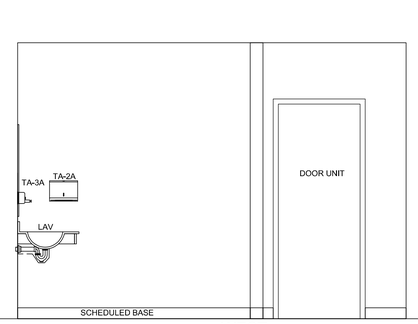


SOUTH

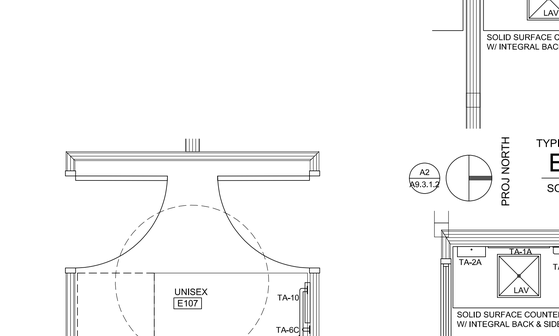


WEST

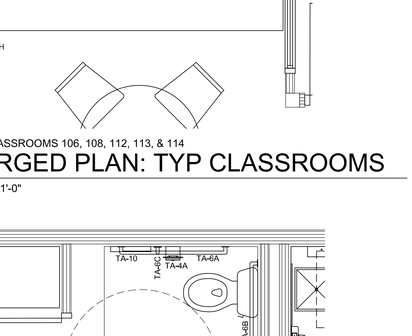
WOMEN E102

ACCESSORY SCHEDULE			
TA-1A	MIRROR UNIT: 24X36	TA-7A	SANITARY NAPKIN DISPOSAL (WALL MOUNT)
TA-1B	MIRROR UNIT: CUSTOM SIZE	TA-7B	SANITARY NAPKIN DISPOSAL (PARTITION MOUNT/DUAL ACCESS)
TA-2A	PAPER TOWEL DISPENSER (FOLDED)	TA-8	ROBE HOOK
TA-2B	PAPER TOWEL DISPENSER (ROLLED)	TA-9	WASTE RECEPTACLE
TA-3A	SOAP DISPENSER	TA-10	SEAT COVER DISPENSER
TA-4A	TOILET TISSUE DISPENSER (ROLLED)	TA-11	VENDING
TA-4B	COMBINATION TOILET TISSUE DISPENSER (ROLLED)	TA-12	BAG SHELF
TA-4C	TOILET TISSUE DISPENSER (FOLDED)	TA-13	SEAT COVER DISPENSER
TA-4D	TOILET TISSUE DISPENSER (JUMBO ROLLED)	TA-14	HAND DRYER
TA-5A	COMBINATION TOWEL DISPENSER (FOLDED) / WASTE RECEPTACLE		
TA-5B	COMBINATION TOWEL DISPENSER (ROLLED) / WASTE RECEPTACLE	CA-1	CHANGING STATION
TA-5C	MULTIPURPOSE SOAP / TOWEL DISPENSER	CA-2	CHILD PROTECTION SEAT
TA-6A	GRAB BAR 42		
TA-6B	GRAB BAR 36	UG-1	UNDERLAVATORY GUARDS
TA-6C	GRAB BAR 24		
		JA-1	MOP AND BROOM HOLDER
		JA-2	PAPER TOWEL DISPENSER

ALPHA BLDG SET 05-16-2025

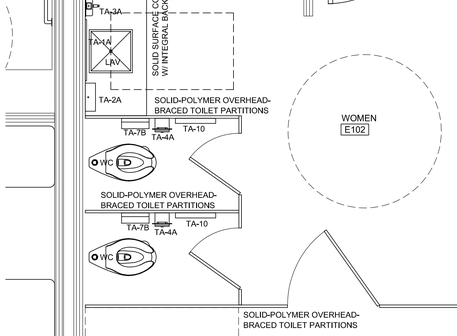


NORTH



EAST

MEN E122



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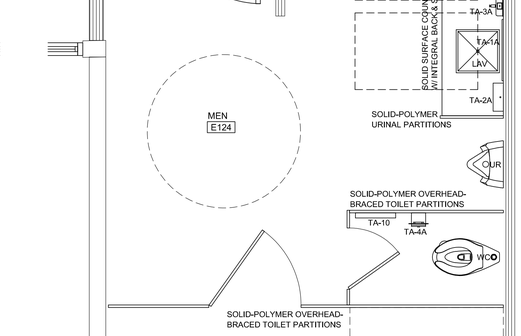

CLASSROOMS E106, E108, E112, E113, & E114

NORTH

WEST

UNISEX E103

WEST

NURSERY E104

NORTH

EAST

SOUTH

UNISEX E107

INTERIOR ELEVATIONS

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

TYPICAL OF CLASSROOMS 106, 108, 112, 113, & 114

A2
A9.3.1.2
PROJ NORTH

ENLARGED PLAN: TYP CLASSROOMS

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

UNISEX E107

UNISEX E103 / NURSERY E104

B2
A9.3.1.2
PROJ NORTH

ENLARGED PLANS: TOILET ROOMS

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

WOMEN E102

MEN E122

D2
A9.3.1.2
PROJ NORTH

ENLARGED PLANS: TOILET ROOMS

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

SCALE IN FEET

ENLARGED PLANS & INTERIOR ELEVATIONS

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway
Madison, Georgia 30650

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OF

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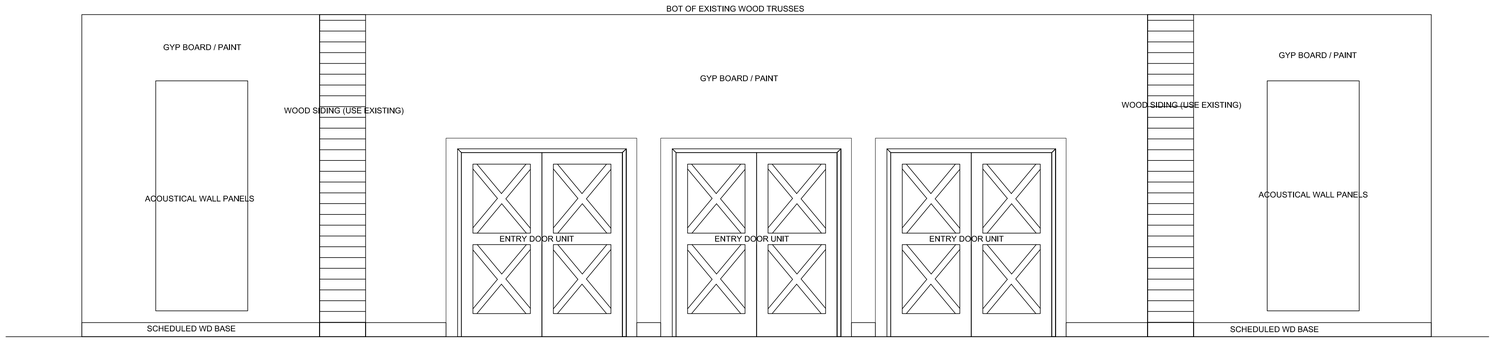
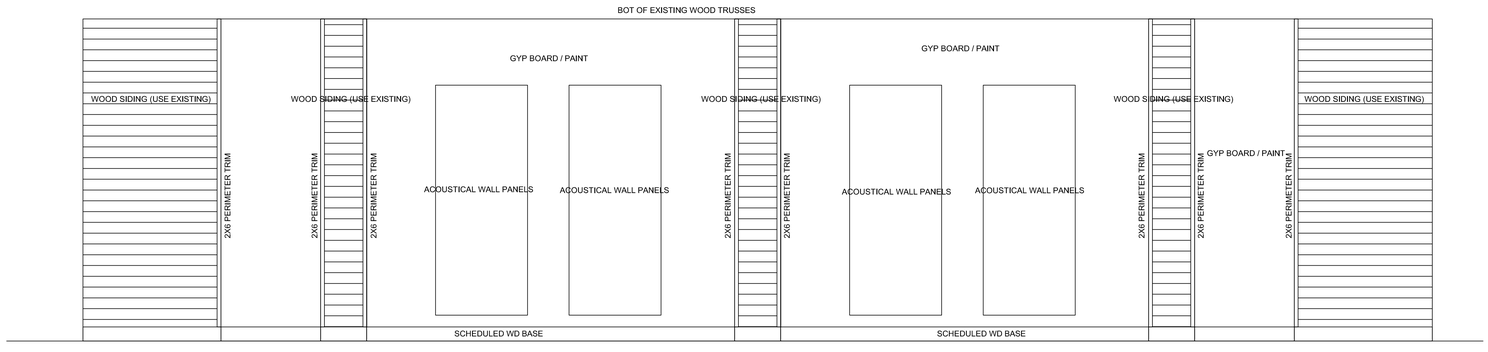
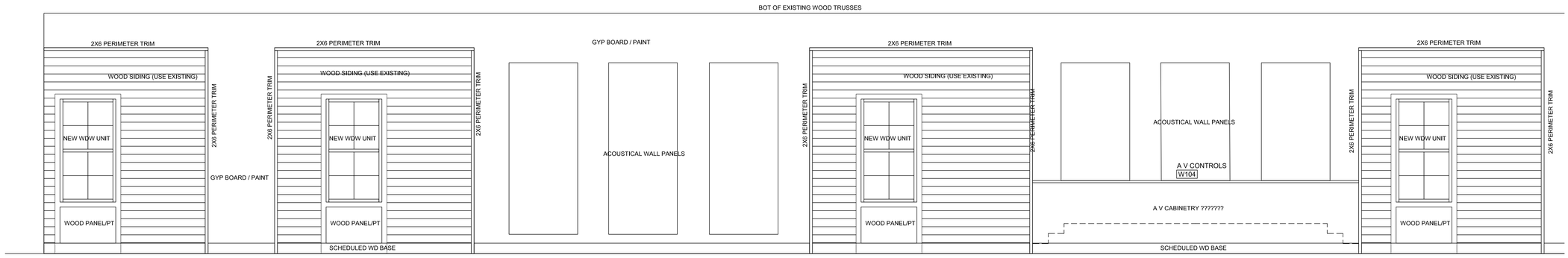


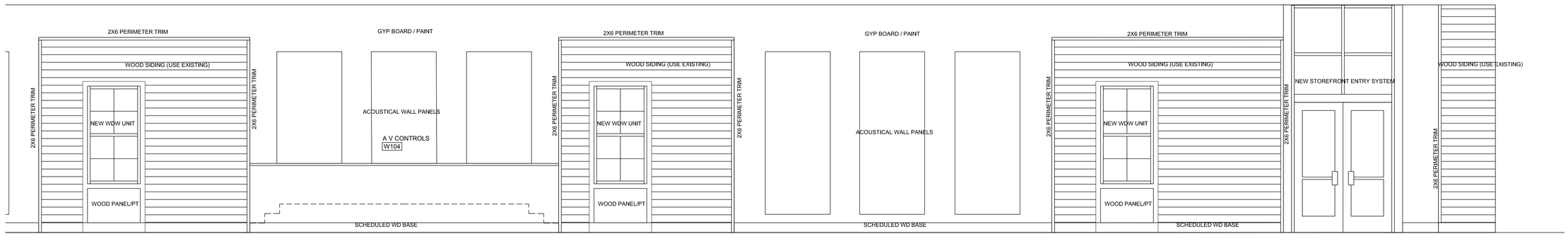
SANCTUARY W105 / NORTH WALL



SANCTUARY W105 / SOUTH WALL



SANCTUARY W105 / EAST WALL-NORTH



SANCTUARY W105 / EAST WALL-SOUTH

INTERIOR ELEVATIONS

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

SCALE IN FEET

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INTERIOR ELEVATIONS

Retrofit & Renovations for Madison Methodist Church

Madison, Georgia 30650

1091 Confederate Highway

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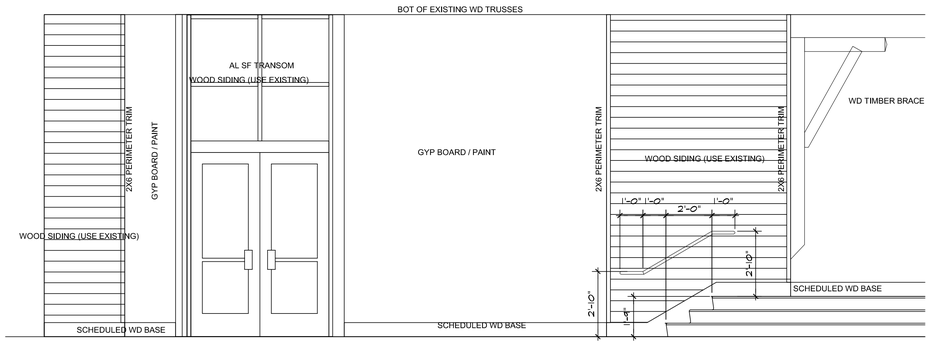
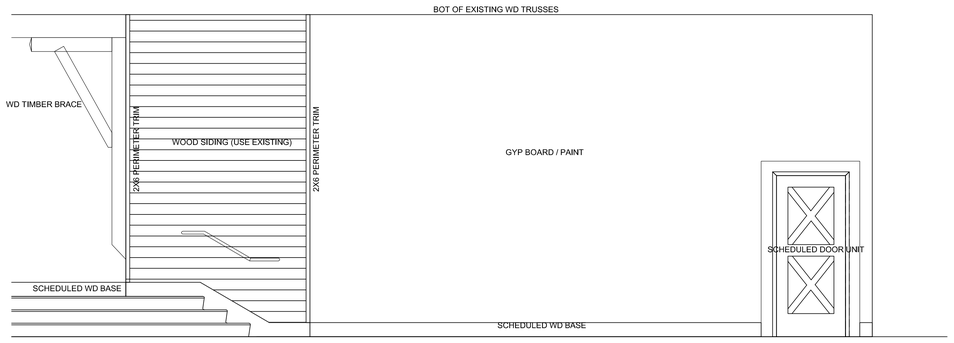
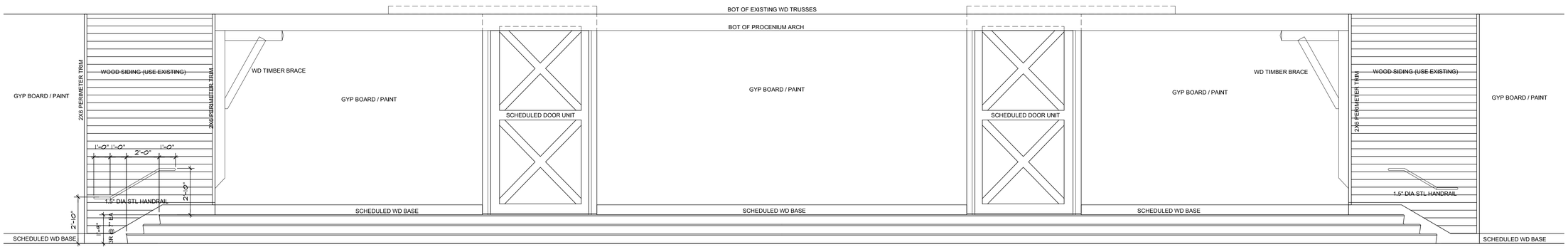
OF



SANCTUARY W105 / WEST WALL-SOUTH



SANCTUARY W105 / WEST WALL-NORTH



SANCTUARY W105 / WEST WALL-MIDDLE

ALPHA BLDG SET 05-16-2025

INTERIOR ELEVATIONS

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

SCALE IN FEET 0 2'-0" 4'-0"

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INTERIOR ELEVATIONS

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DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW
DATE:	01.02.25
DESCRIPTION:	BID-CONSTRUCTION
DATE:	01.21.25
REVISIONS:	
1	03.24.25
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SHEET

A9.3.2.2

OF

GENERAL

1. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. COORDINATE THESE DRAWINGS WITH EXISTING CONDITIONS, AND COORDINATE ALL DIMENSIONS AND WALL LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS.
2. THE STRUCTURAL DRAWINGS SHOULD NOT BE USED TO SIZE OR LOCATE DOORS, WINDOWS, TOILET PARTITIONS, OR NON-LOAD BEARING WALLS.
3. SEE ARCHITECTURAL FOR ALL EXPANSION JOINT COVERS.
4. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, WITH GEORGIA AMENDMENTS.
5. DESIGN LOADS:

   LIVE LOAD INFORMATION
   - A. ROOF LIVE LOAD (REDUCED FOR TRIBUTARY AREA) = 20 PSF
   - B. FLOOR LIVE LOAD = STAIRS = 40 PSF (EDUCATION)
   - C. FLOOR LIVE LOAD = 40 PSF

   FLOOR DEAD LOADING INFORMATION
   - A. 10.0 PSF WOOD STRUCTURAL FRAMING, DECKING AND INSULATION
   - B. 3.0 PSF 1 LAYER 5/8" GYP-BOARD CEILING
   - C. 6.0 PSF COLLATERAL LOAD (LIGHTS, HVAC, SPRINKLER, ETC.)
   - D. WEIGHT OF WALLS CONTRIBUTING TO DESIGN LOAD VARIES
   - E. SEE FRAMING PLAN FOR OTHER CONCENTRATED LOADS

   ROOF DEAD LOADING INFORMATION
   - A. 10.0 PSF WOOD TRUSSES, DECKING, ROOFING AND INSULATION
   - B. 3.0 PSF 1 LAYER 5/8" GYP-BOARD CEILING
   - C. 6.0 PSF COLLATERAL LOAD (LIGHTS, HVAC, SPRINKLER, ETC.)
   - D. SEE FRAMING PLAN FOR OTHER CONCENTRATED LOADS

   SNOW LOAD INFORMATION
   - A. GROUND SNOW LOAD (PG) = 5 PSF
   - B. FLAT-ROOF SNOW LOAD (PF) = 5.5 PSF
   - C. SNOW EXPOSURE FACTOR (CE) = 1.0
   - D. SNOW LOAD IMPORTANCE FACTOR(IS) = 1.1
   - E. THERMAL FACTOR (CT) = 1.0

   WIND LOAD INFORMATION
   - A. ULT. WIND SPEED = 110 MPH
   - B. ASD WIND SPEED = 85 MPH
   - C. WND IMPORTANCE FACTOR (IW) = 1.1
   - D. RISK CATEGORY = II
   - E. WND EXPOSURE = C
   - F. INTERNAL PRESSURE COEFFICIENT = +/- 0.18
   - G. COMPONENTS AND CLADDING = VARIES

   SEISMIC DESIGN INFORMATION
   - A. SEISMIC IMPORTANCE FACTOR (IE) = 1.0
   - B. SEISMIC DESIGN CATEGORY = C
   - C. 0.2 SECOND SPECTRAL RESPONSE ACCELERATION (SS) = 0.22
   - D. 1 SECOND SPECTRAL RESPONSE ACCELERATION (S1) = 0.084
   - E. 0.2 DESIGN SPECTRAL RESPONSE ACCELERATION (SDS) = 0.235
   - F. 1 DESIGN SECOND SPECTRAL RESPONSE ACCELERATION (SD1) = 0.134
   - G. SITE CLASS = D (PER GEOTECHNICAL REPORT)
   - H. RESPONSE MODIFICATION COEFFICIENT (R) = 3.5
   - I. SYSTEM OVERSTRENGTH FACTOR = 3
   - J. DEFLECTION AMPLIFICATION FACTOR (CD) = 4
   - K. SEISMIC RESPONSE COEFFICIENT (CS) = 0.0173
   - L. DESIGN BASE SHEAR (VX) = VARIES
   - M. BASIC SEISMIC FORCE RESISTING SYSTEM - EXISTING WOOD SHEAR WALLS
   - N. ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE
   - O. SEISMIC RISK CATEGORY = III

   RAIN INTENSITY FACTOR = 4.0 INCHES PER HOUR

6. ALL THE SAFETY REGULATIONS, METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING, AND FRAMEWORK, ETC. AS REQUIRED.
7. DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS, CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER FOR CLARIFICATION.
8. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.
9. ISOMETRIC VIEWS ARE FOR ILLUSTRATIVE PURPOSES ONLY. NO INFORMATION ABOUT THE STRUCTURE OR ITS COMPONENTS SHALL BE TAKEN OR ASSUMED FROM THEM.
10. CONTRACTOR SHALL TAMP THE VIRGIN SOIL AFTER EXCAVATION UNTIL NO VISIBLE SOIL RUTTING OCCURS FOR THE FULL SIZE OF THE FOOTING. IF SOIL TAMPING DOES NOT COMPACT SOIL TO THIS CRITERIA, THE ENGINEER SHALL BE NOTIFIED TO DETERMINE SOIL REMEDIATION REQUIREMENTS.

SUBMITTALS

1. THE CONTRACT DOCUMENTS ARE THE STRUCTURAL ENGINEER'S INSTRUMENTS OF SERVICE TO CONVEY DESIGN INTENT. THEY ARE NOT TO BE CONSIDERED FABRICATION OR LAYOUT DRAWINGS.
2. THE FOLLOW ARE REQUIRED SUBMITTALS
   - A. CONCRETE MIX DESIGN(S)
   - B. REINFORCING BAR DRAWINGS
   - C. WOOD TRUSSES
   - D. STRUCTURAL STEEL
   - E. OTHER SUBMITTALS AS NOTED ON THE DRAWINGS AND SPECIFICATIONS
3. SUBMITTALS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER AND SHALL BEAR THE CONTRACTOR'S STAMP ATTESTING TO THE DRAWINGS NOT STAMPED WILL NOT BE REVIEWED. SUBCONTRACTOR'S UNCHECKED SUBMITTAL DRAWINGS WILL NOT BE REVIEWED.
4. SUBMITTALS TO BE REVIEWED BY THE STRUCTURAL ENGINEER SHALL BE SUBMITTED TO THE ARCHITECT. THE STRUCTURAL ENGINEER WILL NOT ACCEPT SUBMITTALS DIRECTLY FROM CONTRACTORS WITHOUT THE STRUCTURAL ENGINEER'S PRIOR APPROVAL.
5. UPON COMPLETION OF THE STRUCTURAL ENGINEER'S REVIEW, SUBMITTALS WILL BE RETURNED TO THE ARCHITECT FOR THEIR REVIEW.
6. ANY DEVIATION IN DESIGN, DETAILS, DIMENSIONS, ETC. FROM THE CONSTRUCTION DOCUMENTS SHALL BE CLOUDED ON THE SUBMITTAL AND VERIFICATION OF THE CHANGE SHALL BE REQUESTED.

STRUCTURAL LUMBER & TRUSSES

1. PROVIDE SOUTHERN SPECIES PLYWOOD RATED FOR INDICATED SPANS AND LOADS BY AMERICAN PLYWOOD ASSOCIATION. INSTALL IN ACCORDANCE WITH ALL RECOMMENDATIONS BY THE AMERICAN PLYWOOD ASSOCIATION INCLUDING SIZE AND SPACING OF FASTENERS.
2. ROOF TRUSS DESIGN LOADS SHALL BE AS FOLLOWS:

   ROOF
   - TOP CHORD LIVE LOAD..... 20 PSF
   - TOP CHORD DEAD LOAD..... 10 PSF
   - BOTTOM CHORD LIVE LOAD..... 0 PSF
   - BOTTOM CHORD DEAD LOAD..... 10 PSF
   - TOP CHORD WIND UPLIFT LOAD..... IN ACCORDANCE W/ ASCE7-05

   SEE GENERAL NOTES FOR OTHER DESIGN LOADS. SEE PLANS FOR ADDITIONAL POINT LOADS.
3. TRUSSES SHALL BE DESIGNED AND FABRICATED BY THE TRUSS MANUFACTURER. DESIGN SHALL CARRY THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF PROJECT LOCATION. CONFIGURATION AND SIZE OF WEB MEMBERS SHALL BE DETERMINED BY THE TRUSS MANUFACTURER. SHOP DRAWINGS AND CALCULATIONS FOR TRUSSES SHALL BE SUBMITTED FOR APPROVAL BEFORE FABRICATION. TRUSS SHOP DRAWINGS SHALL BE AVAILABLE AT THE SITE.
4. MAXIMUM LIVE LOADS DEFLECTION FOR ROOF TRUSSES = L/240
5. LOADS ABOVE SHALL BE UTILIZED IN THE DESIGN OF GIRDER TRUSSES.
6. BOTTOM AND TOP CHORDS OF ALL ROOF TRUSSES SHALL BE TEMPORARILY BRACED BY 1" X 4" X 8' AT 10 FEET ON CENTER. ALL ADDITIONAL PERMANENT BRACING AS REQUIRED BY STRUCTURAL DESIGN OF THE TRUSSES AND FOR STABILITY OF THE TRUSSES SHALL BE INDICATED ON THE SHOP DRAWINGS. BRACING SHALL BE X - TYPE WITH HORIZONTAL STRUTS TOP AND BOTTOM BETWEEN NO LESS THAN 4 TRUSSES. SPACES AT 20 FEET MAXIMUM. BRACING SHALL BE ATTACHED TO EACH TRUSS.
7. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR THE TRUSSES DURING ERECTION.
8. TRUSS DESIGN SHALL ACCOUNT FOR LOAD IMPOSED UPON TRUSSES BY WEIGHT OF MECHANICAL UNITS. SEE MECHANICAL PLANS FOR UNIT LOCATION. VERIFY WEIGHT OF UNIT W/ EQUIPMENT SELECTED.

WOOD NOTES:

1. WOOD CONNECTIONS SHALL FOLLOW THE MINIMUM REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE TABLE 2304.9.1 UNLESS NOTED ON THE DRAWINGS TO REQUIRE ADDITIONAL FASTENERS.
2. INSTALL ALL WOOD CONSTRUCTION CONNECTORS ACCORDING TO THE REQUIREMENTS SET BY THE MANUFACTURER.
3. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
4. STRUCTURAL LUMBER SHALL BE SOUTHERN PINE GRADE #2 OR EQUAL, UNLESS NOTED AS GRADE #1.
5. PROVIDE DOUBLE JOISTS UNDER ALL NON-LOAD BEARING PARTITIONS PARALLEL TO THE SPAN OF THE FLOOR JOISTS.
6. PROVIDE SOLID BLOCKING BETWEEN FLOOR JOISTS UNDER WALLS THAT ARE PERPENDICULAR TO THE FLOOR TRUSSES.
7. ALL STRUCTURAL WOOD USED IN THE CONSTRUCTION OF STEPS, PORCHES, AND DECKS, OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED. (U.N.O.)
8. ALL PRE-ENGINEERED LUMBER SPECIFIED AS LVL'S ON THESE DRAWINGS SHALL BE PRODUCED BY "TRUS JOIST BY WEYERHAEUSER" OR APPROVED EQUAL WITH MANUFACTURERS DETAILED DESIGN PROPERTIES FOR THE SECTIONS USED IN THIS SET OF DRAWINGS. THE MINIMUM DESIGN PROPERTIES SHALL INCLUDE:
   - E: 2,000,000 PSI
   - Fb: 2,600 PSI
   - Fc PERPENDICULAR: 750 PSI
9. WALL SHEATHING SHALL BE CONTINUOUS OVER RIM JOIST TO TOP PLATE. ALL WALL AND FLOOR SHEATHING SHALL BE BLOCKED AT PANEL JOINTS AND NO MORE THAN FOUR FEET ON CENTER VERTICALLY.

   ROOF SHEATHING:
   THE ROOF SHEATHING SHALL BE 5/8" THICK (MIN.) 24/16 APA-RATED PLYWOOD, WITH Ø.131" DIAMETER X 2.5" LONG (RING SHANK) NAILS AT 3" ON CENTER AT ALL PANEL EDGES AND BOUNDARIES, AND 12" ON CENTER IN THE FIELD.

   FLOOR SHEATHING:
   THE FLOOR SHEATHING SHALL BE 3/4" THICK (MIN.) 24/16 APA-RATED PLYWOOD, WITH Ø.131" DIAMETER X 2.5" LONG (RING SHANK) NAILS AT 3" ON CENTER AT ALL PANEL EDGES AND BOUNDARIES, AND 12" ON CENTER IN THE FIELD.

   SHEARWALL SHEATHING:
   SHEARWALLS SHALL BE SHEATHED WITH 19/32" (MIN.) 24/16 APA-RATED OSB OR PLYWOOD, WITH Ø.131" DIAMETER X 2.5" LONG (8D COMMON) NAILS AT 3" ON CENTER AT ALL PANEL EDGES AND BOUNDARIES, AND 12" ON CENTER IN THE FIELD. BLOCK ALL EDGES OF PLYWOOD.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, AND SHALL BE FREE FROM ANY FORM RELEASE AGENTS.
2. REINFORCING BENDS SHALL CONFORM TO CRSI.
3. WELDED WIRE FABRIC SHALL BE SHEETS OF NEW BILLET STEEL COLD DRAWN, CONFORMING TO ASTM SPECIFICATION A185, GRADE 60.
4. REINFORCING IS TO BE SUPPORTED AND SPACED WITH WIRE BAR SUPPORTS ACCORDING TO CRSI "PLACING REINFORCING BARS" UNLESS NOTED OTHERWISE.
5. BAR SUPPORTS, DESIGN, DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318 AND "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.
6. SPLICES FOR CONTINUOUS BARS SHALL BE CLASS B, UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.
7. PROVIDE BENT HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF ALL WALLS AND FOOTINGS. BENT BARS ARE TO MATCH THE SIZE AND SPACING OF HORIZONTAL BARS IN WALL OR FOOTING. USE CLASS B SPLICE EACH SIDE.
8. PROVIDE DIAGONAL BARS AT CORNERS OF OPENINGS IN SLABS AND CONCRETE WALLS. SEE DETAILS "RECTANGULAR OPENING WALL SLAB" AND "CIRCLE OPENING WALL SLAB". PROVIDE 2" CLEAR COVER BETWEEN THE OPENING AND THE CORNER REINFORCING BARS.
9. WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMN FOOTING.
10. EXTEND ALL FOOTING REINFORCEMENT TO FAR SIDE OF FOOTING. SEE NOTE BELOW FOR CONCRETE COVERAGE.
11. PROVIDE DOWELS IN WALL FOOTING TO MATCH WALL VERTICALS UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE CLASS B SPLICE. USE STANDARD ACI 90 DEGREE HOOK WITH 3" CLEAR TO BOTTOM OF FOOTING UNLESS NOTED OTHERWISE. SEE DETAIL "CORNER BAR & SPLICE LENGTH DETAIL (IN CONCRETE)"

CLASS B SPLICE OR CORNER BAR PER ACI 318

BAR #	3000 PSI CONCRETE		4000 PSI CONCRETE		5000 PSI CONCRETE	
	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)
4	28	57	25	50	24	45
5	36		31		28	
6	43		37		34	
7	63	72	54	62	49	56
8	72		62		56	
9	81		70		63	
10	89		78		69	
11	98		85		76	

12. MINIMUM CONCRETE COVERAGE SHALL BE AS FOLLOWS. IF CONSTRUCTION DOCUMENTS INDICATE A LARGER COVERAGE, IT SHALL BE USED. IF STIRRUPS, TIES, OR SPIRALS ARE USED, COVERAGE SHALL BE TO THE OUTERMOST FACE OF THESE ELEMENTS.
   - A. FOOTINGS, CAISSONS, AND OTHER MEMBERS WHERE CONCRETE IS DEPOSITED AGAINST SOIL (EXCEPT SLABS ON GRADE) = 3"
   - B. CONCRETE EXPOSED TO WEATHER OR SOIL BUT IS NOT DEPOSITED AGAINST SOIL:
     - #6 BAR AND LARGER = 2"
     - #5 BAR AND SMALLER = 1 1/2"
   - C. CONCRETE NOT EXPOSED TO WEATHER OR SOIL:
     - SLABS, WALLS, JOISTS #14 BAR AND LARGER = 1 1/2"
     - SLABS, WALLS, JOISTS #11 BAR AND SMALLER = 3/4"
     - BEAMS AND COLUMNS = 1 1/2"

FOUNDATIONS

1. THE FOUNDATION IS DESIGNED USING AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF BASED ON 2018 IBC SECTION 1806. IF THE BEARING CONDITIONS VARY FROM WHAT IS SHOWN, OR IF THE SOIL BEARING CAPACITY IS QUESTIONABLE, THE ARCHITECT AND STRUCTURAL ENGINEER ARE TO BE NOTIFIED IMMEDIATELY.
2. ALL BUILDING AREAS SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AT OPTIMUM OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D698, CURRENT EDITION.
3. A REGISTERED GEOTECHNICAL ENGINEER REPRESENTING THE OWNER SHALL BE PRESENT TO MONITOR COMPACTION AND SETTLEMENT AND VERIFY THE BEARING CAPACITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ON-SITE GEOTECHNICAL ENGINEER.
4. REMOVE ALL TOPSOIL, ROOT SYSTEM OR OTHER DELETERIOUS MATERIAL UNDER PROPOSED SLAB AND COLUMN FOOTINGS AND REPLACE WITH SUITABLE COMPACTED FILL OR CRUSHED STONE. STRUCTURAL ENGINEER'S DECISION ON QUESTIONABLE MATERIAL SHALL BE FINAL.
5. BACKFILLING SHALL BE PERFORMED IN EQUAL LIFTS AROUND THE BUILDING PERIMETER TO BALANCE LATERAL EARTH PRESSURE ON THE BUILDING. WALK BEHIND COMPACTION EQUIPMENT IS REQUIRED WITHIN A DISTANCE OF TWO TIMES THE WALL HEIGHT.
6. BACKFILL AGAINST STRUCTURAL WALLS SHALL NOT BE PERFORMED UNTIL WALL AND SLAB ON GRADE HAS OBTAINED SPECIFIED STRENGTH.
7. IF REQUIRED BY THE GEOTECHNICAL REPORT OR THE ON-SITE GEOTECHNICAL ENGINEER, THE GROUND WATER TABLE SHALL BE LOWERED.
8. ALL FOOTINGS TO BE CENTERED UNDER THE COLUMNS OR WALLS THEY SUPPORT, UNLESS NOTED OTHERWISE ON THE DRAWING.
9. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL IN WRITING. THE CONTRACTOR SHALL LOCATE ANY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION.
10. INSPECTIONS BY GEOTECH FIRM ARE REQUIRED FOR EXISTING SOILS CONDITIONS, FILL PLACEMENT, AND LOAD BEARING REQUIREMENTS:
    - A. SITE PREPARATION: PRIOR TO PLACEMENT OF PREPARED FILL, THE INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.
    - B. FILL PLACEMENT: DURING PLACEMENT AND COMPACTION OF FILL MATERIAL, THE INSPECTOR SHALL DETERMINE THAT THE PROPER FILL MATERIAL IS BEING USED AND THAT THE MAXIMUM LIFT THICKNESS IS FOLLOWED IN ACCORDANCE WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.
    - C. EVALUATION OF IN-PLACE DENSITY: THE INSPECTOR SHALL DETERMINE, AT THE FREQUENCIES DETERMINED IN THE SOILS REPORT AND PROJECT SPECIFICATIONS, THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL COMPLIES WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.

CONCRETE

1. ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE CODE REFERENCED EDITION OF ACI-318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
2. CONCRETE MIX DESIGN REQUIREMENTS AND COMPRESSIVE STRENGTH AT 28 DAYS.

DESCRIPTION	28 DAY STRENGTH (PSI)	WEIGHT PER CUBIC FOOT (PCF)	SLUMP AT POINT OF PLACEMENT	AGGREGATE	FIBERMESH OR WWM
FOOTING AND FOUNDATION WALLS	3000	145	4" +/- 1"	ASTM C33	NONE
SLAB ON GRADE	3000	145	4" +/- 1"	ASTM C33	FIBERMESH @ 1.5LB PER CUBIC YARD OF CONC.
EXTERIOR SLAB ON GRADE	4500	145	4" +/- 1"	ASTM C33	WWM 6X6 W1.4 X W1.4

FLY ASH SHALL NOT BE USED. WATER REDUCING ADMIXTURES MAY BE USED TO ACHIEVE SLUMP REQUIREMENTS.

3. SEE ARCHITECTURAL DOCUMENTS FOR JOINT SIZES AND FILLER MATERIALS.
4. LOCATION OF ALL CONSTRUCTION JOINTS, EXCLUDING SLABS ON GRADE, SHALL BE COORDINATED WITH STRUCTURAL ENGINEER.
5. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER SHOWING PROPOSED LOCATIONS OF ANY MATERIAL SUCH AS BUT NOT LIMITED TOO CONDUITS, EMBEDMENTS, OR FIXTURES TO BE PLACED INSIDE ANY STRUCTURAL CONCRETE MEMBER SUCH AS BEAMS, WALLS, SLABS, COLUMNS OR FOOTINGS. THIS IS NOT REQUIRED FOR SLABS ON GRADE OF 4" OR LESS IN THICKNESS.
6. CONCRETE SLAB FLATNESS AND LEVELNESS TOLERANCES SHALL BE IN CONFORMANCE WITH ACI 117, AND SHALL BE SPECIFIED BY THE OWNER UNLESS SUPERSEDED BY THE OWNER'S CRITERIA, CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS:
   - A. PROVIDE A FLOOR SURFACE WHICH IS TRUE AND LEVEL AND ACHIEVES F NUMBERS OF FF = 30 AND FL = 20 MINIMUM OVERALL COMPOSITE AND FF = 20 AND FL = 15 MINIMUM AT ANY INDIVIDUAL SECTION, WHEN TESTED IN ACCORDANCE WITH ASTM E1155. REMOVE SURFACE IRREGULARITIES TO PROVIDE A CONTINUOUS SMOOTH FINISH.
   - B. ALL INTERIOR SLABS TO RECEIVE A SMOOTH TROWEL FINISH UNLESS NOTED.
7. UNLESS SPECIFIED OTHERWISE IN THE SPECIFICATION, TESTING OF CONCRETE SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF ACI 318 SECTION 5.6 "EVALUATION AND ACCEPTANCE OF CONCRETE".
8. CONSTRUCTION JOINTS (CNJT.) ARE TO BE LOCATED ON THE THRESHOLD SIDE OF A WALL.
9. SEE DETAIL "TYPICAL SLAB ON GRADE JOINT LAYOUT".
10. THE FOLLOWING PROCEDURES SHALL MEET THE REQUIREMENTS OF THE REFERENCED CODE SECTIONS:

PROCEDURE	REFERENCE SECTION
PREPARATION	ACI 304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
CONVEYING	ACI 318 SECTION 5.3 - "CONVEYING"
DEPOSITING	ACI 318 SECTION 5.10 - "DEPOSITING"
CONSOLIDATION	ACI 309 - "GUIDE FOR CONSOLIDATION OF CONCRETE"
CURING	ACI 308 - "STANDARD PRACTICE FOR CURING CONCRETE"
HOT WEATHER CONCRETING	ACI 305 - "HOT WEATHER CONCRETING"
COLD WEATHER CONCRETING	ACI 306 "COLD WEATHER CONCRETING"

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CODE-REFERENCED AISC MANUAL OF STEEL CONSTRUCTION, SPECIFICATION FOR STEEL BUILDINGS, AND CODE OF STANDARD PRACTICE.
2. STEEL FABRICATOR SHALL BE CURRENTLY CERTIFIED BY THE AISC QUALITY CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATIONS AND DESIGNATED AS "AISC CERTIFIED BUILDING FABRICATOR CATEGORY BU." CONTRACTOR SHALL SUBMIT IN WRITING TO THE STRUCTURAL ENGINEER AT THE TIME OF PROOF OF CERTIFICATION FOR THE STEEL FABRICATOR(S) SUPPLYING STRUCTURAL STEEL.
3. MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
   - A. W-SHAPES = ASTM 992
   - B. HOLLOW STRUCTURAL SHAPES = ASTM A500, GRADE B
   - C. PLATES, BARS, ANGLES, C-SHAPES, MC-SHAPES = ASTM A36
   - D. PIPES = ASTM A53, GRADE B
   - E. WELDING ELECTRODES = E70XX
4. ALL ANCHOR BOLTS SHALL BE SIZE AND STRENGTH SPECIFIED ON THESE DRAWINGS.
5. ALL BEAM END CONNECTIONS SHALL BE AISC DOUBLE ANGLE BOLTED-WELDED CONNECTIONS WITH 3/4" DIA. A325N BOLTS U.N.O. THE WELD SHALL BE 1/4" WELD FULL LENGTH OF ANGLE PLUS 1" TOP AND BOTTOM. DESIGN SHEAR SHALL BE THE GREATER OF:
   - A. THE SHEAR REACTION SHOWN ON DRAWINGS (IF ANY);
   - B. 50% OF THE VALUE FROM THE "MAXIMUM TOTAL UNIFORM LOAD IN KIPS" TABLES OF THE AISC 13TH EDITION (BLACK BOOK) OR,
   - C. THE MINIMUM NUMBER OF BOLTS IN SINGLE SHEAR AS FOLLOWS:

BEAM SHAPE*	# OF 3/4" DIA. A325 BOLTS	LENGTH OF LL 3 1/2"x3 1/2"x5/16"
W8 , W10	4	5 1/2
W12 , W14	6	8 1/2
W16 , W18	8	11 1/2
W21	10	14 1/2
W24	12	17 1/2
W27	14	20 1/2
W30	16	23 1/2

WHERE CONNECTIONS ARE SKEWED OR THE DOUBLE ANGLE CONNECTIONS ABOVE WILL NOT FIT, THE FOLLOWING CONNECTIONS SHALL BE USED:

END OF BEAM CONNECTIONS*

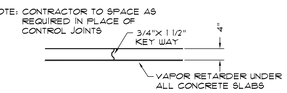
BEAM SHAPE*	# OF 3/4" DIA. A325 BOLTS	1/2" SHEAR TAB LENGTH**
W8 , W10	2	5 1/2
W12 , W14	3	8 1/2
W16 , W18	4	11 1/2
W21	5	14 1/2
W24	6	17 1/2
W27	7	20 1/2
W30	8	23 1/2

*WHEN THE SHEAR TAB CONNECTION ABOVE DOES NOT FIT IN THE BEAM WEB, USE THE ADJACENT SMALLER CONNECTION AND CLOUD ON SHOP DRAWINGS.

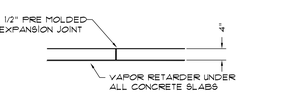
**WELD PLATE TO SUPPORTING MEMBER WITH 5/16" WELD ALL AROUND. SHEAR TAB TO BE 1/2" THICK X 4" WIDE.

6. ALL BOLTED CONNECTION SHALL BE FULLY PRETENSIONED ACCORDING TO THE REQUIREMENTS OF "AISC MANUAL OF STEEL CONSTRUCTION" UTILIZING DIRECT TENSION INDICATORS OR AN APPROVED INSTALLATION METHOD IN WRITING FROM THE ENGINEER OF RECORD.
7. WELDS SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY THE STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY FOR THE TYPE OF WELD REQUIRED. WELDER CERTIFICATION SHALL BE SUBMITTED FOR REVIEW.
8. WELD LENGTHS NOT NOTED SHALL BE FULL LENGTH. TERMINATE WELDS IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION AND AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE - STEEL (D1.1).
9. HOLES LARGER THAN 1" DIA. SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER. HOLES SHALL BE PUNCHED OR DRILLED, EXCEPT AS OTHERWISE PERMITTED THE STRUCTURAL ENGINEER.
10. PROTECT COLUMNS, BASE PLATES, ANCHOR BOLTS, AND ANY STEEL BELOW GRADE WITH AN APPROVED INORGANIC OR EPOXY ANTI-CORROSION COATING, FIELD APPLIED PER MANUFACTURER'S INSTRUCTIONS.
11. ALL EXPOSED STRUCTURAL STEEL INCLUDING LINTELS, AND AS NOTED ON DRAWINGS, SHALL BE GALVANIZED IN CONFORMANCE WITH ASTM A123. FASTENERS AND SMALL PARTS REQUIRING GALVANIZING SHALL BE IN CONFORMANCE WITH ASTM A153.
12. THE CONTRACTORS SHALL DETERMINE, FURNISH AND INSTALL ALL TEMPORARY SUPPORTS SUFFICIENT TO SECURE THE STRUCTURAL STEEL FRAMING AGAINST LOADS PRESENT DURING ERECTION. TEMPORARY SUPPORTS SHALL REMAIN IN PLACE UNTIL ALL CONNECTIONS TO THE LATERAL LOAD RESISTING SYSTEM, INCLUDING HORIZONTAL DIAPHRAGMS, ARE COMPLETE.
13. THE GENERAL CONTRACTOR SHALL VERIFY THAT THE CORRECT BEAM AND GIRDER CAMBER IS PRESENT AFTER ERECTION AND BEFORE FLOOR SLAB IS POURED.
14. SPLICE CONTINUOUS STEEL ANGLES AND PLATES WITH PARTIAL-JOINT-PENETRATION SQUARE GROOVE WELDS (JOINT DESIGNATION B-P1A) U.N.O.
15. STRUCTURAL STEEL FABRICATOR AND DETAILER SHALL SEE THE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL STEEL NOT SHOWN OR CALLED OUT IN THESE DRAWINGS. IF SIZE IS NOT SHOWN IN ARCHITECTURAL DRAWINGS A REQUEST OR INFORMATION SHALL BE SENT TO THE STRUCTURAL ENGINEER THROUGH THE PROPER CHANNELS.
16. GENERAL CONTRACTOR SHALL COORDINATE CONNECTIONS OF JOIST AND JOIST GIRDERS TO STRUCTURAL STEEL.

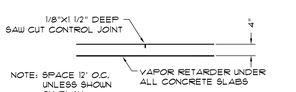
NOTE: CONTRACTOR TO SPACE AS REQUIRED IN PLACE OF CONTROL JOINTS



TYPICAL CONSTRUCTION JOINTS (CNJT.)
N.T.S.



TYPICAL ISOLATION JOINT (I. JT.)
N.T.S.



NOTE: SPACE 12' O.C. UNLESS SHOWN ON PLAN

TYPICAL CONTROL JOINT (C.J.)
N.T.S.

SAW CUTTING CONTROL JOINTS IS AN ATTEMPT TO PARTIALLY CONTROL THE SHRINKAGE CRACKS THAT NATURALLY OCCURS IN CONCRETE DURING THE CURING PROCESS. SOMETIMES THE CONCRETE WILL CRACK BETWEEN CONTROL JOINTS.

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GENERAL NOTES

Retrofit & Renovations for
Madison Methodist Church
1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	
DRAWN BY:	D. WHITBY
CHECKED BY:	G. KORNEGAY
DESCRIPTION:	SCH-REVIEW
DATE:	00.00.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW
DATE:	12.02.24
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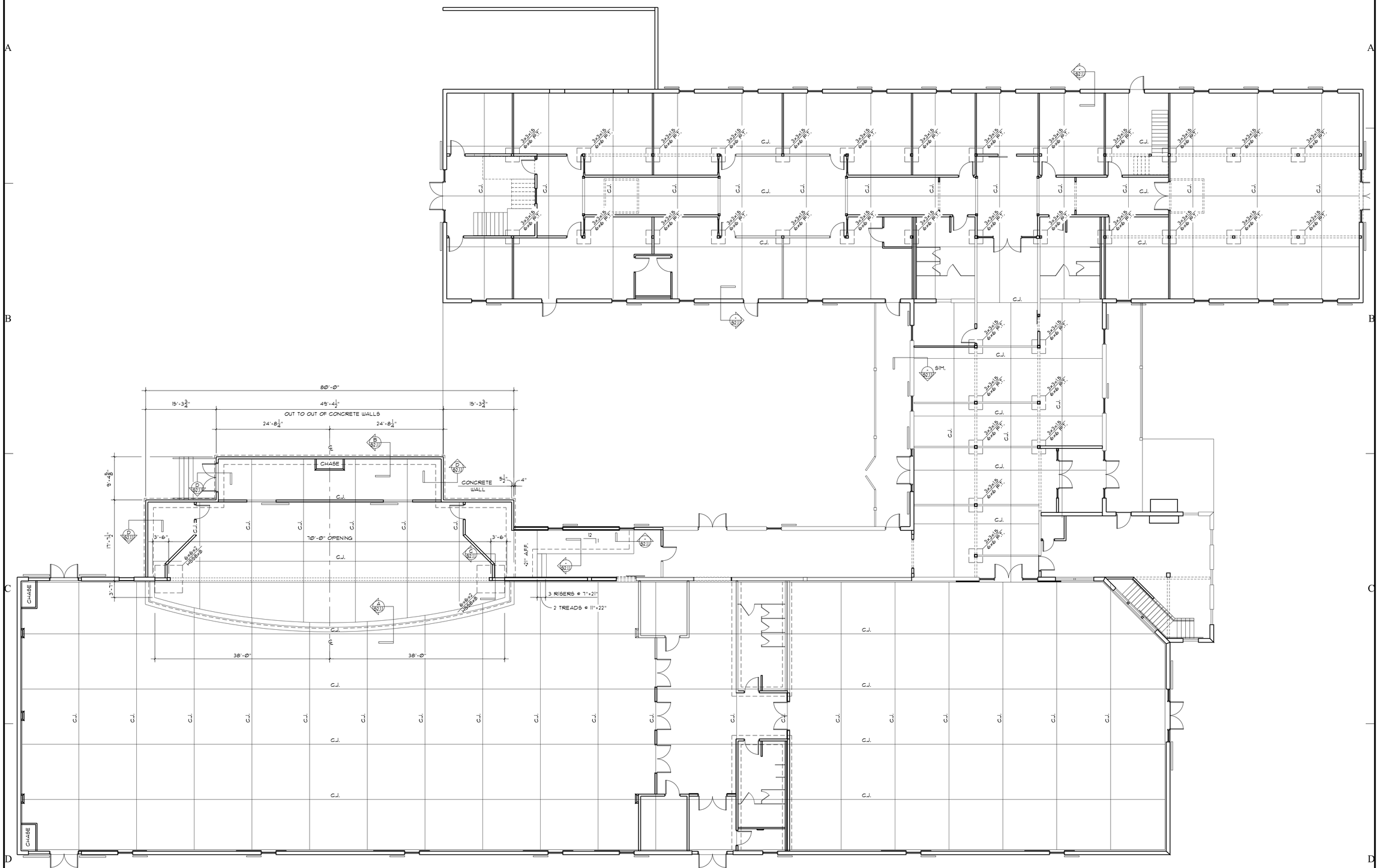

FOUNDATION PLAN
SCALE: 1/8"=1'-0"

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FOUNDATION PLAN

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway Madison, Georgia 30650

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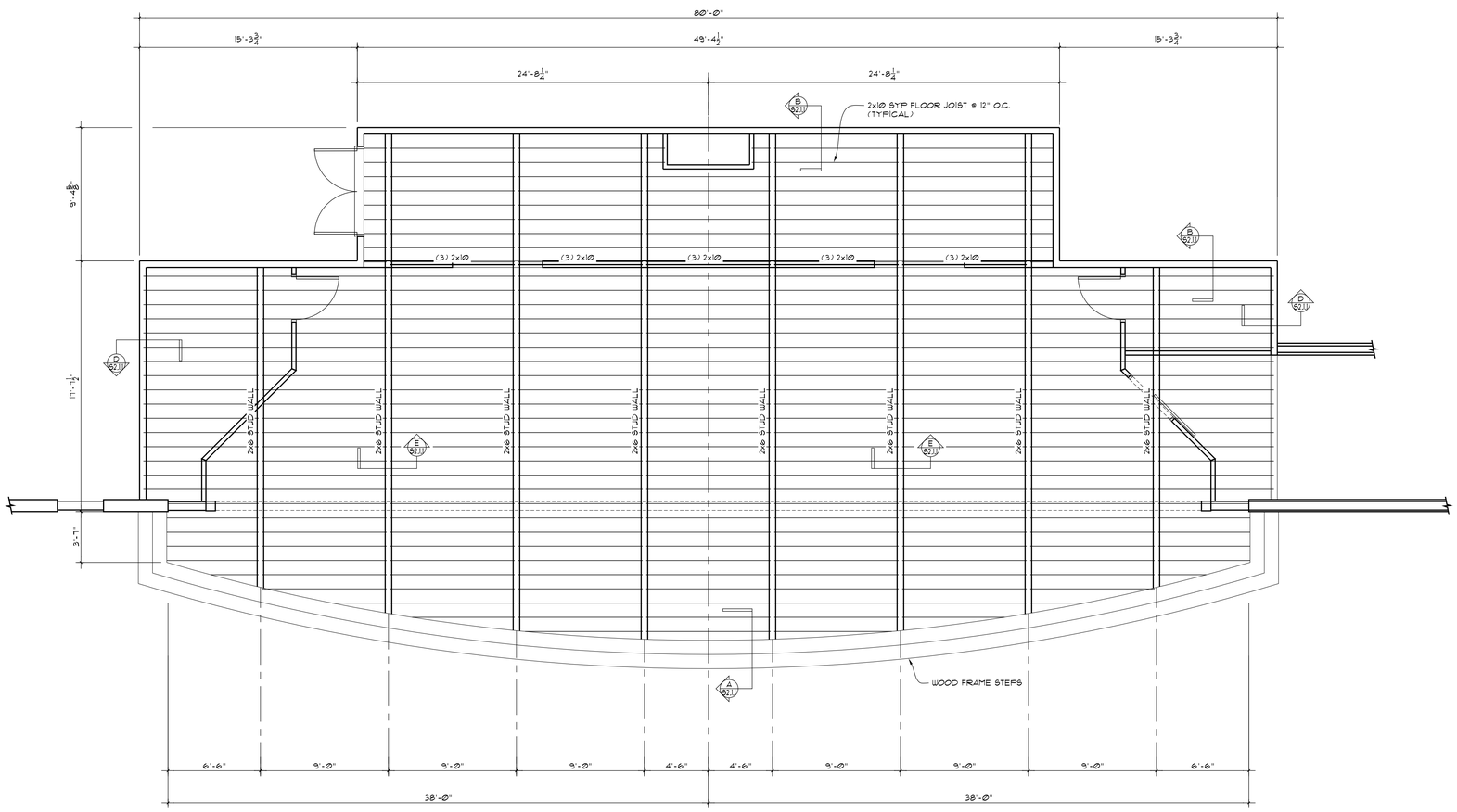
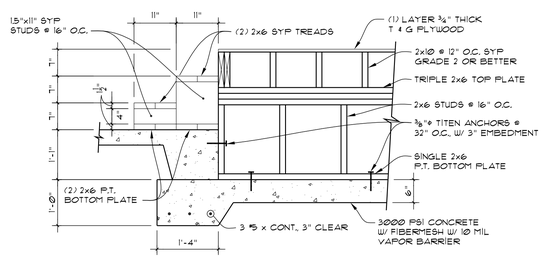


STAGE FLOOR FRAMING PLAN (1/G2.1)
SCALE: 1/4"=1'-0"



SECTION (A/G2.1)
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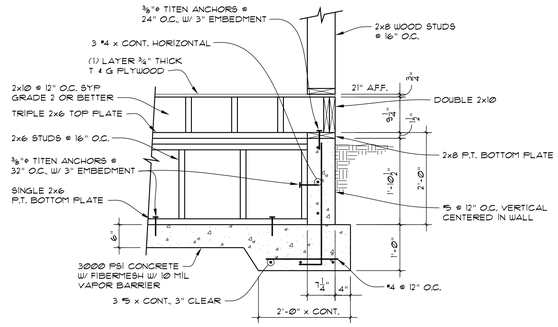

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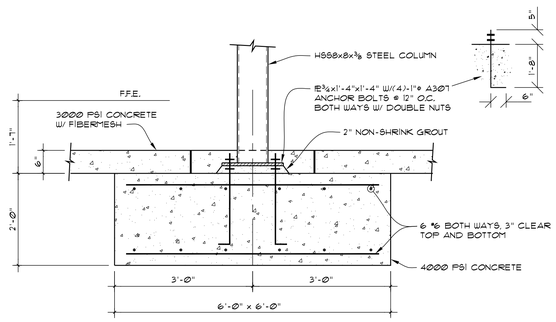

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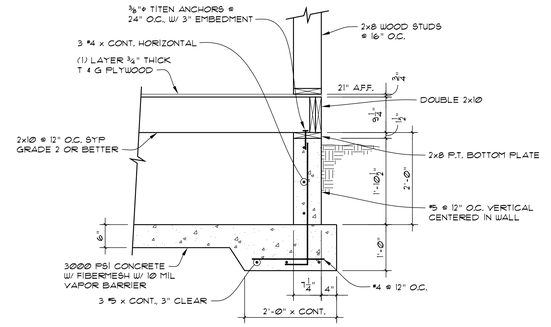
SCALE: ¾"=1'-0"



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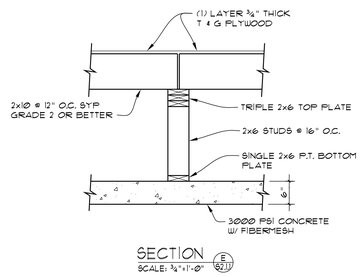

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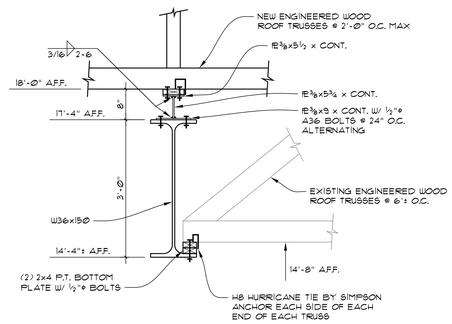

SECTION (F/G2.1)
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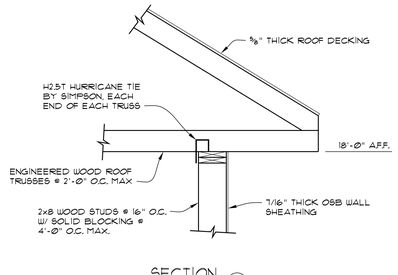

SECTION (G/G2.1)
SCALE: ¾"=1'-0"

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FLOOR FRAMING PLAN

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway
Madison, Georgia 30650

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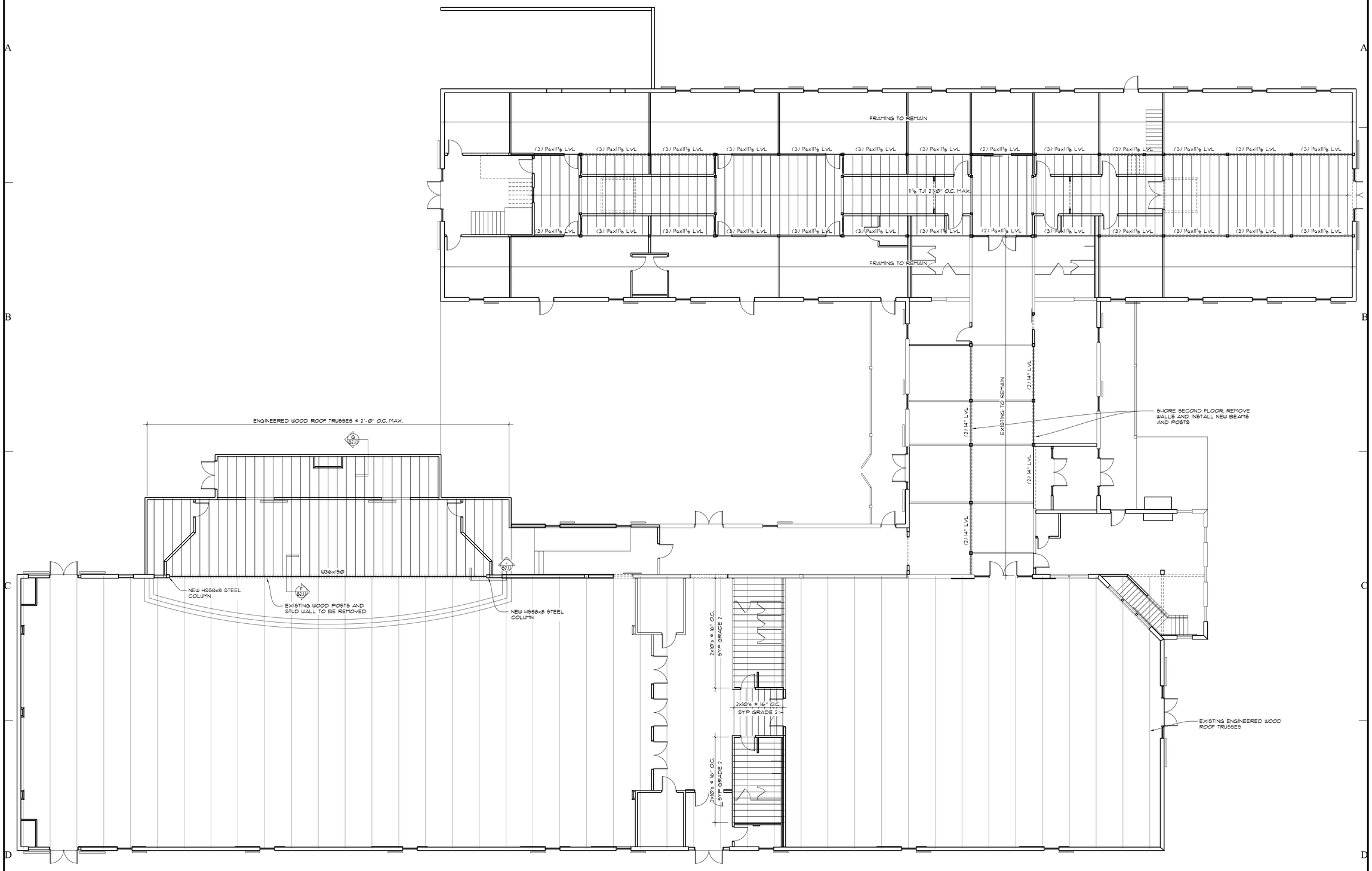

ROOF / 2nd FLOOR FRAMING PLAN S211
SCALE: 1/8"=1'-0"

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ROOF FRAMING PLAN

Retrofit & Renovations for Madison Methodist Church

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PLUMBING SPECIFICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:
A. Plumbing fixtures, fittings and equipment.
B. Hot and cold water systems.
C. Drain waste and vent piping systems.
D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments), Georgia State Minimum Standard Gas Code (2018 International Gas Code with all Georgia State Amendments), Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State supplements and Amendments), and the DOJ 2010 ADA Standards for Accessible Design with Georgia Amendments of Rule 120-3-20.

The contractor should not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearance. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be U.L. listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

Below ground sanitary drain and vent piping shall be solid-wall ASTM D2665 schedule 40 PVC. Install underground, PVC plastic drainage piping according to ASTM D2321. Above ground sanitary drain and vent piping shall be cellular-core ASTM F891 schedule 40 PVC. Install aboveground PVC piping according to ASTM D 2665. All aboveground piping shall be adequately supported. Sanitary drain and vent piping shall have PVC Socket Fittings (ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe). Slope pipe sizes 6" and under at 1/8 inch per foot continuously toward public sewer. Slope pipe sizes 8" and larger at 1/16 inch per foot continuously toward public sewer.

Insulate aboveground floor drains, traps, and sanitary drain piping within 10 feet of drain receiving condensate and equipment drain water below 60° with 1" thick type I performed glass-fiber pipe insulation, 1-1/2" cellular glass, or 1" flexible elastomeric.

All above ground domestic water distribution piping shall be ASTM D 2846, SDR11, schedule 40 CPVC with socket fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation. All underground domestic water distribution piping 1" and smaller shall be ASTM D 876 & ASTM F 877 PEX with no fittings underground. All underground domestic water distribution piping 1-1/4" and larger shall be ASTM D 1785 schedule 40 PVC with ASTM D 2466 PVC socket fittings. Wrap piping larger than 2" in return air plenums with fire barrier plenum rated wrap.

DOMESTIC WATER PIPING CLEANING

A. Clean and disinfect potable domestic water piping as follows:
   1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
   2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
      a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
      b. Fill and isolate system according to either of the following:
         1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
         2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
      c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
      d. Repeat procedures if biological examination shows contamination.
      e. Submit water samples in sterile bottles to authorities having jurisdiction.
B. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
C. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type ASJ/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic Cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic Hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

Above ground natural gas piping shall be ASTM A53; Type E or S; Grade B; Schedule 40; black steel with malleable iron threaded fitting per ASME 16.3 Class 150. Flexible connectors shall comply be ANSI Z21.24 of copper alloy. Gas stops shall have bronze body with AGA stamp and bronze plug with lever handle. Valves shall be ASME B16.33 with IAS-listed bronze body. Coordinate connection of gas service and installation of meter with gas utility company. All piping shall be adequately supported. Prime & paint all exposed outdoor piping. Line gas pressure regulators shall comply with ANSI Z21.80. Appliance gas pressure regulators shall comply with ANSI Z21.18. Provide vent limiting device for regulators located indoors. Provide vent protector device for regulators located outdoors.

Underground natural gas piping shall be ASTM D2513 PE pipe and fittings joined by heat fusion; service-line risers with tracer wire terminated in an accessible location. PE Fittings shall be ASTM D 2683, socket-fusion type or ASTM D 3261, butt-fusion type with dimensions matching PE pipe. PE transition fittings shall be factory-fabricated fittings with PE pipe complying with ASTM D 2513, SDR 11; and steel pipe complying with ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B. Install underground PE natural-gas piping according to ASTM D 2774. Use Factory fabricated and leak tested service-line risers. Buried underground gas piping at least 36 inches below finished grade. Underground natural gas piping shall be installed with detectable warning tape on underground gas piping. Install tape directly above underground gas piping. Located tape 12 inches below finished grade, except 6 inches below subgrade under pavements and slabs.

HW & CW Valves: Use pipe size valves, as shown below:
A. Ball: Watts LFFBV-3C.
B. Check: Watts #600 or #601S.

Ball-Valve-Type Hose-End Drain Valves shall comply with MSS SP-110 for standard-port, two-piece ball valves. Copper alloy body, 3/4", 400-psig pressure rating, replaceable seats and seals, vinyl-covered steel handle, threaded short nipple outlet with garden-hose thread complying with ASME B1.20.7 and cap with brass chain.

Balancing valves shall confirmed to MSS SP-110 for two-piece, copper-alloy ball valves. Balancing valves shall be copper alloy, memory-stop type, chrome-plated brass ball, replaceable seats & seals, vinyl-covered steel handle with memory-setting device.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron: All brass tubing shall be 17 gage, chrome plated. Exception: If the fixture tailpieces and traps are located in cabinets, the tailpiece & trap shall be PVC. Grid drains for public lavatories. Basket strainers for sinks.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type.

Urinal Supports shall be type I, urinal carrier with fixture support plates and coupling with seal and fixture bolts and hardware matching fixture for wall-mounting, urinal-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Lavatory Supports shall be type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Plate type wall hangers for water coolers.

Lavatory/ Sink supply fittings: NSF Standard: Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components – Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/CSA B125.1. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for conceal behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require furring other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Permanently close and make weatherproof any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices.

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority.

Domestic water piping tests: Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. Leave new, altered, extended, or replaced domestic water piping uncovered and uncanceled until it has been tested and approved. Expose work that was covered or concealed before it was tested. Cap and subject piping to static water pressure of 50 psig (345 kPa) above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow it to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired. Repair leaks and defects with new materials, and retest piping or portion thereof until satisfactory results are obtained.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru roof (VTR) shall be offset a minimum of 10'-0" from all outside air intakes.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

Provide Watts #LF9D dual check valve with intermediate atmospheric vent at all ice maker machines.

Provide a backflow preventer at the water riser if backflow preventer is not shown on civil drawings.

Approved manufactures: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons
Supplies & Traps: Engineered Brass CO., Mcguire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn
Flush Valves: Sloan, Delany, Zurn, American Standard
Floor Drains & Cleanouts: Zurn, Jay R Smith, Proset, Watts, Mifab, Wade, Josam, Sioux Chief, Oatey
Tankless Gas Water Heaters: A.O. Smith, Rheem, Rinnai, Bradley, Intellihot
Toilet Seats: Bemis, Centoco, Church Seats, Olsonite, Beneke, Zurn, Mainline
Stainless Steel Sinks: Dayton, Elkay, Just, Kohler, Moen, Sterling, Franke
ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey
Fixture Supports: MIFAB, Jay R. Smith, Wade, Watts, Zurn
Wall Hydrants/ Hose Bibbs: MIFAB, Jay R. Smith, Wade, Watts, Woodford, Zurn
Expansion Tanks: AMTROL, State, Watts, Wikins
Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Jay R. Smith, Wade, Watts, Zurn
Outlet Boxes: Acorn, IPS, Oatey
Brass Valves: American, Crane, Watts, Apollo
Circulation Pumps: Armstrong, Bell & Gossett, Grundfos, TACO

FIXTURE AND EQUIPMENT SCHEDULE

#	FIXTURE TYPE	WASTE		WATER SUPPLY		WATER FIX. CONN.		MANUFACTURE AND NOTES
		BELOW FLOOR	FIXTURE CONN.	COLD	HOT	COLD	HOT	
WC1	WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96053 WATER CLOSET. SLOAN REGAL 111-1.28 FLUSH VALVE. BEMIS 1655SSCT SEAT.
WC2	ADA WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96057-B WATER CLOSET. SLOAN REGAL 111-1.28 FLUSH VALVE. BEMIS 1655SSCT SEAT.
WC3	NURSERY WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96064 WATER CLOSET & SEAT. SLOAN REGAL 111-1.28 FLUSH VALVE.
UR1	URINAL 0.125 GPF	2"	2"	3/4"		3/4"		KOHLER K-5452-ET URINAL. SLOAN REGAL 186-0.125 FLUSH VALVE.
UR2	ADA URINAL 0.125 GPF	2"	2"	3/4"		3/4"		KOHLER K-5452-ET URINAL. SLOAN REGAL 186-0.125 FLUSH VALVE.
LAV1	ADA UNDERMOUNT LAVATORY 0.5 GPM	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	KOHLER K-2210-0 LAVATORY. MOEN 9417F05 FAUCET.
LAV2	ADA WALL-HUNG LAVATORY 0.5 GPM	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	KOHLER K-2005 LAVATORY. MOEN 8413F05 FAUCET.
SNK1	NURSERY SINK 1.5 GPM	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	ELKAY DAYTON D12521 SINK. MOEN 8289 FAUCET.
SNK2	WARMING KITCHEN SINK 1.5 GPM	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	ELKAY DAYTON DPC1252210 SINK. MOEN 8289 FAUCET.
MOP	MOP SINK	3"	3"	1/2"	1/2"	1/2"	1/2"	FIAT MSB2424, 830AA FAUCET, 832AA HOSE/BRACKET, 889CC HANGER, MSG2424 PANELS.
HB1	EXTERIOR HOSE BIBB			3/4"		3/4"		WOODFORD 27.
HB2	INTERIOR HOSE BIBB			3/4"		3/4"		WOODFORD 84.
FD	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	3"	3"					WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.
FCO	FLOOR CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO12. PROVDE CARPET MARKER WHEN INSTALLED UNDER CARPET.
GCO	GRADE CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO-200-RX-4-60.
HD	HUB DRAIN WITH WATERLESS TRAP PRIMER	2"	2"					PROSET TG24HD.
PRV	PRESSURE REDUCING VALVE (ASSE 1003)			2"		2"		WATTS LF25AUB-Z3.
FS	PVC FLOOR SINK	3"	3"					WATTS FS-500-150

GENERAL FIRE PROTECTION NOTES:

Fire protection sprinkler system design is delegated to the contractor. The fire protection subcontractor is responsible for code compliance, research, design, coordination, and installation of a complete and functional hydraulically calculated sprinkler system (and standpipe system, if required) that meets the approval of and is in accordance with all applicable regulations and requirements of the following and as further specified:

Current edition of NFPA

Applicable Codes

Authorities having jurisdiction.

WATER HEATER & TANK SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	TYPE	BTUH	*ELECTRICAL	
					VOLTS	PHASE
WH1	A.O. SMITH	ACT-199I-N	GAS TANKLESS	199,000	120	1
WH2	A.O. SMITH	ACT-199I-N	GAS TANKLESS	199,000	120	1
ET	WATTS	PLT-5	EXPANSION TANK	–	–	–

CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE.

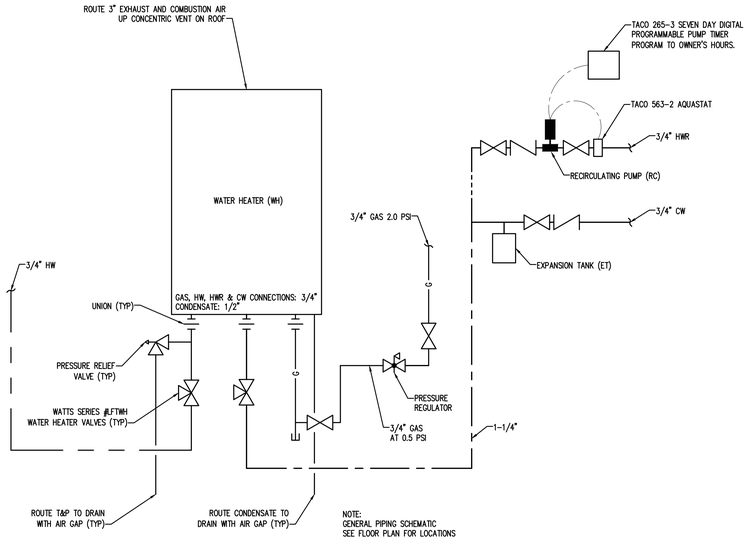
PUMP SCHEDULE

MARK	PUMP TYPE	BASIS OF DESIGN MANUFACTURER	MODEL NUMBER	RPM	HP/ WATTS	GPM	FEET HEAD	*ELECTRICAL	
								VOLTS	PHASE
RC1	RECIRCULATION	TACO	006e3	1440-3720	MAX 44 WATTS	2	2.64	120	1
RC2	RECIRCULATION	TACO	0015e3	1440-3720	MAX 44 WATTS	2	6.31	120	1

VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.

LEGEND

	SHUTOFF VALVE		COLD WATER	(TYP)	TYPICAL	VTR	VENT THRU ROOF
	CHECK VALVE		HOT WATER	C.T.	COUNTER-TOP	AFF	ABOVE FINISHED FLOOR
	PIPE UP		HOT WATER RETURN	DN	DOWN	CW	COLD WATER
	PIPE DOWN		SEWER VENT	CONN.	CONNECTION	HW	HOT WATER
PDI-B (H)	PDI UNIT WATER HAMMER ARRESTOR		SEWER	NTS	NOT TO SCALE	B.F.F.	BELOW FINISH FLOOR
DWGS.	DRAWINGS	F	FIRE SPRINKLER	VT	VENT	FLR	FLR
		G	GAS			FFE	FINISHED FLOOR ELEVATION



WATER HEATERS (WH1 & WH2) PIPING SCHEMATIC
SCALE: N.T.S.

ALPHA BLDG SET 05-16-2025

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102 Sammy Court
WARNER ROBINS, GEORGIA 31088
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SUNBELT BUILDERS
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PLUMBING SPECIFICATIONS

Retrofit & Renovations for
Madison Methodist Church
1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	JWK/KMP
CHECKED BY:	KMP
DESCRIPTION:	CD-REVIEW-DOCS
DATE:	12.02.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW
DATE:	12.02.24
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.24
REVISIONS:	
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SHEET
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OF

FIRE PROTECTION BASIC MATERIALS AND METHODS
(FIRE PROTECTION SECTION 1 OF 2)

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Pipe, fittings, valves, and connections for combination sprinkler and standpipe systems.

1.2 REFERENCES

A. ASME B16.1 – Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250; The American Society of Mechanical Engineers.

B. ASME B16.3 – Malleable Iron Threaded Fittings; The American Society of Mechanical Engineers.

C. ASME B16.4 – Gray Iron Threaded Fittings; The American Society of Mechanical Engineers.

D. ASME B16.5 – Pipe Flanges and Flanged Fittings; The American Society of Mechanical Engineers; (ANSI/ASME B16.5).

E. ASTM A 47/A 47M – Standard Specification for Ferritic Malleable Iron Castings.

F. ASTM A 53/A 53M – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.

G. ASTM A 795/A 795M – Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use.

H. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.

I. NFPA 24 – Standard for the Installation of Private Fire Service Mains and Their Appurtenances; National Fire Protection Association.

J. NFPA 72 – National Fire Alarm Code.

K. NFPA 101 – Code for Safety to Life from Fire in Buildings and Structures.

L. 2018 International Fire Code (as adopted and amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120-3-3-04(3))

M. UL (FPED) – Fire Protection Equipment Directory; Underwriters Laboratories Inc.; current edition.

N. UL 262 – Gate Valves for Fire-Protection Service; Underwriters Laboratories Inc..

O. Chapter 120-3-3 of the Rules of the Safety Fire Commissioner.

P. Georgia State Minimum Standard Building Code (International Building Code 2018 Edition, with Georgia State Amendments). NFPA Code, where more stringent, shall take precedence.

1.3 SUBMITTALS

A. Product Data: Provide manufacturers catalogue information. Indicate valve data and ratings.

B. Shop Drawings: Indicate pipe materials used, jointing methods, supports, floor and wall penetration seals. Indicate installation, layout, weights, mounting and support details, and piping connections.

C. Project As-Built Documents: Record actual locations of components and tag numbering.

D. Operation and Maintenance Data: Include installation instructions and spare parts lists.

1.4 QUALITY ASSURANCE

A. Fire Protection

1. The Contractor expressly warrants that the company performing the installation of the fire protection systems has demonstrated proficiency in the installation, start-up and adjustment of such systems by the successful performance of work of the nature specified herein on at least 5 commercial or institutional buildings, each containing minimum of 10,000 ft2 of protected area or greater.
2. The Contractor further warrants that the aforesaid subcontractor has trained personnel, instruments, tools, and equipment to perform the installation specified.
3. The Contractor also warrants that the aforesaid installer has been in business performing services of the nature specified herein for at least five-years.
4. Provide a certificate of competency as issued by the Georgia State Fire Marshal's Office.

B. Conform to UL and FM requirements.

C. Valves: Bear UL and FM label or marking. Provide manufacturer's name and pressure rating marked on valve body.

D. Products Requiring Electrical Connection: Listed and classified as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

A. Deliver and store valves in shipping containers, with labeling in place.

B. Provide temporary protective coating on cast iron and steel valves.

C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

1.6 EXTRA MATERIALS

A. Provide additional materials as provided in these specifications and by NFPA.

PART 2 PRODUCTS

2.1 GENERAL SYSTEM AND PRODUCT REQUIREMENTS

A. Sprinkler Systems: Conform work to NFPA 13.

B. Standpipe and Hose Systems: Conform to NFPA 14.

C. Welding Materials and Procedures: Conform to ASME Code.

D. Building is light hazard, ordinary hazard group, and extra hazard group. Pipe sizes shall be hydraulically calculated based upon flow test to be conducted by contractor.

E. Provide hydraulic calculations over the most remote 1500 square feet providing density required for hazard as indicated in NFPA 13. Minimum discharge pressure shall be 7.0 PSI. Minimum residual pressure at city water main in the street shall be 20.0 PSI. Provide 10.0 PSI minimum safety margin in hydraulic calculations at design point. Design area reduction per NFPA 13 is not allowed.

F. Basis of design: Contractor shall perform, or have performed, at the same time, a Fire Flow and Twenty Four Hour Static Test to assure flow equals or exceeds specified basis of design flow rate prior to preparing shop drawings, installing system or performing calculations. Prepare calculations based on confirmed flow data or basis of design flow data, whichever is lowest. Flow test shall be performed in accordance with NFPA 13 and Rules and Regulations of Safety Fire Commissioner, O.C.G.A. Chapter 120-3-3. Modify flow test pressures (static and residual), if pressure recorded in 24 hour test is lower than flow test pressures for one hour duration, to lowest hour test pressure.

G. No pipe shall be routed above electrical panels and equipment as required by National Electrical Code, on control side or beneath suspended mechanical equipment except where specifically required by Code, in which case, provisions shall be made for service access.

H. Inspectors test connection(s) shall discharge to the outside of the building in location(s) acceptable to the Architect.

I. Inside auxiliary drains, if needed, shall discharge in location(s) acceptable to the Architect.Drain and test connection piping, if in finished space, shall be installed concealed.

2.2 BURIED PIPING

A. Refer to Civil plans and specifications for piping type.

2.3 ABOVE GROUND WET SYSTEM PIPING

A. Steel Pipe: ASTM A 795 Schedule 10 or ASTM A 53 Schedule 40, black. Piping 2" and smaller shall be threaded. Piping 2 1/2" and larger shall be grooved with rigid couplings.
1. Cast Iron Fittings: ASME B16.1, flanges and flanged fittings and ASME B16.4, threaded fittings.
2. Malleable Iron Fittings: ASME B16.3, threaded fittings and ASTM A 47/A 47M.
3. Mechanical Grooved Couplings: Rigid malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe. Reducing couplings are NOT allowed.

2.4 PIPE HANGERS AND SUPPORTS

A. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron, adjustable swivel, split ring.

B. Hangers for Pipe Sizes 2-inches and Over: Carbon steel, adjustable, clevis.

C. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.

D. Vertical Support: Steel riser clamp.

E. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.

F. Provide support for any vertical pipe 36" in length or greater except armovers. Provide supports 12'-0" O.C. maximum or at floor levels.

G. Threaded rods shall NOT be bent. Bending is permitted only in unthreaded sections of hanger rods. Bending shall occur as close to the hanger as possible. Provide a swivel assembly if required.

2.5 GATE VALVES

A. Up to and including 2 inches:
1. Manufacturers:
a. Nibco Scott; Product T-104-O
b. Jenkins; Product 275U
c. Hammond; Product 1868I
d. Stockham; Product B-133
e. Kennedy; Product Fig. 66
2. Bronze body, bronze trim, rising stem, handwheel, solid wedge or disc, threaded ends.

B. Over 2 inches:
1. Manufacturers:
a. Nibco Scott; Product F-607-OTS
b. Crane; Product 467
c. Jenkins; Product 825-A
d. Hammond; Product 1R1154
e. Stockham; Product G-634
f. Kennedy; Product Fig. 68
2. Iron body, bronze trim, rising stem pre-grooved for mounting tamper switch, handwheel, OS&Y, solid rubber covered bronze or cast iron wedge, flanged ends.

2.6 GLOBE VALVES

A. Bronze body, rubber disc, union bonnet, 174 W.W.P., threaded ends.

B. Up to and including 2 inches:
1. Manufacturers:
a. Nibco-Scott; Product KT-65.
b. Kennedy; Product 97SD.
c. United; Product 125S.
d. Fairbanks; Product 4691-3.

2.7 ANGLE VALVES

A. Bronze body, rubber disc, union bonnet, 174 non-shock cold water, threaded ends.

B. Up to and including 2 inches:
1. Manufacturers:
a. Nibco-Scott; Product T-301-W.
b. Kennedy; Product 985D.
c. United; Product 126S.
d. Fairbanks; Product 4691-3.

2.8 BUTTERFLY VALVES: Not allowed.

2.9 CHECK VALVES

A. Iron body, U.L. Listed- F.M. Approved, swing type, bronze trimmed, bronze seat and disc, flanged ends.

B. Manufacturers:
1. Jenkins; Product 629
2. Crane; Product 375
3. Stockham; Product G-939
4. Mueller; Product A-2120-6
5. Kennedy; Product #126

2.10 INDICATOR POSTS

A. Cast iron base, top section, & cap; malleable iron wrench and locking device; steel stem; cast iron coupling; bronze target holder with aluminum "shut" and "open" targets; Underwriters Laboratories listed, and Factory Mutual approved; available for varying trench depth; and with adjustable depth features.

B. Manufacturers:
1. Kennedy Fig. Series 741.
2. Nibco NIP-1.
3. Stockham G-951.
4. Mueller A-20804.

2.11 UNDERGROUND GATE VALVES

A. 2 1/2-inch and larger, iron body, non-rising stem, bronze stem, iron mounted disc with bronze rings, cast iron 2-inch square operating nut, flange, ends, AWWA spec. C-500.

B. Manufacturers:
1. Kennedy Fig. 701X.
2. Nibco F-609.
3. Stockham G-635.
4. Mueller A-2075-20.
5. M & H Fig. 3067.

PART 3 EXECUTION

3.1 PREPARATION

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.

B. Remove scale and foreign material, from inside and outside, before assembly.

C. Prepare piping connections to equipment with flanges or unions.

D. Storage: All piping shall be stored above ground and protected to prevent dirt and debris from entering pipe.

3.2 INSTALLATION

A. Install sprinkler system and service main piping, hangers, and supports in accordance with NFPA 13 and these specifications.

B. Install standpipe piping, hangers, and supports in accordance with NFPA 14.

C. Install post indicator valve (PIV) upstream of backflow device.

D. Route piping in orderly manner, plumb and parallel to building structure. Maintain gradient.

E. Install piping to conserve building space, to not interfere with use of space and other work.

F. Group piping whenever practical at common elevations.

G. All piping shall be installed above ceilings in a concealed manner except where no ceilings are present

H. Sleeve pipes passing through partitions, walls, and floors.

I. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.

J. Reducing Tees: Weld-on threaded outlet tees and Coupolet-300 by Bonney Forge Division of Energy Products Group, Central Sprink 701, "TEE-LET" 300 by Merit Manufacturing Corp., NAP300 by North Alabama Pipe Corp., F400 by Grinnell Corp. may be used for side outlet reducing tees more than two pipe sizes smaller than main. Discs shall be retrieved and connected to pipe at point of cutting. Cutting shall comply with NFPA 13, Chapter 6.5.2.9.

K. Couplings may be used on gridded systems at only one end of each gridded branch line or on 2 1/2" or larger riser nipple to 2" or smaller branch line to facilitate connection provided that the coupling is connected to piping by a cut groove. Rolled grooves are not acceptable.

L. Pipe Hangers and Supports:
1. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
2. Place hangers within 12 inches of each horizontal elbow.
3. Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
4. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.
5. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.

M. Slope piping and arrange systems to drain at low points. Use eccentric reducers to maintain top of pipe level.

N. Prepare pipe, fittings, supports, and accessories for finish painting. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.

O. Do not penetrate building structural members unless indicated.

P. Provide sleeves when penetrating floors and walls. Seal pipe and sleeve penetrations to achieve fire resistance equivalent to fire separation required.

Q. When installing more than one piping system material, ensure system components are compatible and joined to ensure the integrity of the system. Provide necessary joining fittings. Ensure flanges, union, and couplings for servicing are consistently provided.

R. Die cut threaded joints with full cut standard taper pipe threads with red lead and linseed oil or other non-toxic joint compound applied to male threads only.

S. Install valves with stems upright or horizontal, not inverted. Remove protective coatings prior to installation.

T. Provide gate valves for shut-off or isolating service. No valve shall be installed with the centerline, if horizontal, or wheel, if vertical, more than 9'-0" AFF.

U. Provide drain valves at main shut-off valves, low points of piping and apparatus.

3.3 CLEANING AND PROTECTION

A. All materials, equipment and mechanical rooms shall be cleaned prior to the Final Inspection.

B. Wash down and scrub clean all mechanical room floors, walls, equipment bases and equipment.

C. Paint equipment where finish has been damaged requiring retouching of finish to match factory finish.

D. Chipped or scraped paint shall be retouched to match original finish.

E. All dents and sags in equipment casing shall be straightened.

F. All equipment, pipe, pipe fittings and appurtenances shall be free of rust and stains prior to substantial completion.

3.4 FINISHING EQUIPMENT AND MATERIAL

A. Use paint systems specified in Division 9 for the substrates to be finished.

B. Paint shop-primed equipment.

C. Re-install electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

D. Paint all exposed pipes, unless otherwise indicated.

E. All ferrous fasteners and hanger supports not having a corrosion resistant plated finish shall be painted to prevent rust.

F. Paint all equipment, including that which is factory-finished, exposed to weather or to view on the roof and outdoors.

G. Paint all exposed un-insulated ferrous materials.

END OF SECTION

FIRE SUPPRESSION SPRINKLERS
(FIRE PROTECTION SECTION 2 OF 2)

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Wet Type Sprinkler System

B. Dry-pipe sprinkler system.

C. System design, installation, and certification.

D. Fire department connections.

1.2 REFERENCES

A. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.

B. NFPA 14 – Standard for the Installation of Standpipe and Hose Systems; National Fire Protection Association.

1.3 SUBMITTALS

A. Product Data: Provide data on sprinklers, valves, and specialties, including manufacturers catalog information. Submit performance ratings, rough-in details, weights, support requirements, and piping connections.

B. Shop Drawings:
1. Indicate hydraulic calculations, detailed pipe layout, hangers and supports, sprinklers, components and accessories. Indicate system controls.
2. Submit shop drawings, product data, and hydraulic calculations to Fire Marshall for approval and to Architect for review. Submit to Architect prior to submitting to Fire Marshal. Submit proof of approval to the Architect.

C. Project As-Built Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations. Provide two (2) CD and three (3) paper copies of as-built drawings.

D. Manufacturer's Certificate: Certify that system has been tested and meets or exceeds specified requirements and code requirements. All certificates shall be signed by certificate holder.

E. Operation and Maintenance Data: Include components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

1.4 QUALITY ASSURANCE

A. Maintain one copy of referenced design and installation standard on site.

B. Conform to UL requirements.

C. Equipment and Components: Provide products that bear UL label or marking.

D. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

A. Store products in shipping containers and maintain in place until installation. Provide temporary inlet and outlet caps. Maintain caps in place until installation.

B. Store piping off floor and out of elements. Provide cover for piping to prevent dirt and debris from entering piping. Piping and fittings shall be rust free when installed.

1.6 EXTRA MATERIALS

A. Provide extra sprinklers of type and size matching those installed, in quantity required by referenced NFPA design and installation standard.

B. Provide suitable wrenches for each sprinkler type.

C. Provide metal storage cabinet located at piping entrance to building.

PART 2 PRODUCTS

2.1 SPRINKLER SYSTEM REQUIREMENTS

A. Sprinkler System: Provide coverage for entire building.

B. Occupancy: comply with NFPA 13.

C. Water Supply: Contractor shall perform or have performed an NFPA-13 water flow test data and a 24 hour static pressure test. Adjust flow test to lowest pressure recorded by 24 hour test of one hour duration.

D. Interface system with building fire alarm system.

E. Provide fire department connections where indicated on FP and civil drawings.

2.2 SPRINKLERS

A. Tyco and affiliates, Automatic Sprinkler, Reliable, Viking.

B. All sprinklers installed shall be by the same manufacturer.

C. Contractor shall select temperature ratings in accordance with NFPA 13, paragraph 8.3.2.

D. Suspended Ceiling Type: Recessed pendant type with matching flush push on escutcheon plate.
1. Finish: Chrome plated.
2. Escutcheon Plate Finish: Chrome plated.
3. Quick response Glass bulb type temperature rated for specific area hazard.

E. Gypsum Board Ceiling Type: Concealed pendant type with matching push on escutcheon plate.
1. Finish: Brass.
2. Escutcheon Plate Finish: Enamel, Verify color with architect.

F. Exposed Area Type: Standard upright type.
1. Finish: Brass.
2. Fusible Link: Quick Response Fusible solder link type temperature rated for specific area hazard.

G. Sidewall Type: Standard horizontal sidewall type with matching flush push on two piece escutcheon plate.
1. Finish: Chrome plated.
2. Escutcheon Plate Finish: Chrome plated.
3. Quick Response Fusible solder link type temperature rated for specific area hazard.

H. Guards: Finish to match sprinkler finish.

2.3 PIPING SPECIALTIES

A. Dry Pipe Sprinkler Alarm Valve: Check type valve with divided seat ring, rubber faced clapper to automatically actuate water motor alarm and electric alarm, with accelerator; with test and drain valve.

B. Water Motor Alarm: Hydraulically operated impeller type alarm with aluminum alloy chrome plated gong and motor housing, nylon bearings, and inlet strainer. By same manufacturer as Alarm Valve.

C. Electric Alarm: Electrically operated chrome plated gong with pressure alarm switch.

D. Water Flow Switch: Vane type switch for mounting horizontal or vertical, with two contacts; rated 10 amp at 125 volt AC and 2.5 amp at 24 volt DC. Notifier, Simplex, Potter, Grinnell.

E. Tamper Switch: Switch designed for installation on indicator valves with cased aluminum housing with red finish. Notifier, Simplex, Potter, Grinnell.

F. Fire Department Connections: Elkhart, Croker Standard, Potter Roemer.
1. Type: Free standing type with ductile iron pedestal chrome plated finish.
2. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.
3. Drain: 3/4 inch automatic drip, outside.
4. Label: "Sprinkler – Fire Department Connection".

PART 3 EXECUTION

3.1 INSTALLATION

A. Install in accordance with referenced NFPA design and installation standard and these specifications.

B. Sprinklers shall be in line with and centered between down lights unless shown otherwise.

C. Install equipment in accordance with manufacturer's instructions.

D. Each floor of multi story buildings shall be zoned.

E. All dry system piping shall be galvanized down stream of dry valve.

F. Install buried shut-off valves in valve box. Provide post indicator.

G. Provide approved double detector check assembly at sprinkler system water source connection.

H. Locate fire department connection within forty (40'-0") feet of nearest fire hydrant and with sufficient clearance from walls, obstructions, or adjacent siamese connectors to allow full swing of fire department wrench handle.

I. Locate outside alarm gong on building wall at piping entrance to building.

J. Place pipe runs to minimize obstruction to other work.

K. Place piping in concealed spaces above finished ceilings.

L. Center sprinklers in two directions in ceiling tile and provide piping offsets as required.

M. Apply masking tape or paper cover to ensure concealed sprinklers, cover plates, and sprinkler escutcheons do not receive field paint finish. Remove after painting. Replace painted sprinklers.

N. Where sprinklers are required under rectangular duct, the centerline of the sprinkler shall be minimum 6" under duct

O. Install air compressor on vibration isolators.

P. Flush entire piping system of foreign matter.

Q. Hydrostatically test entire system.

R. Require test be witnessed by Fire Marshall.

S. All drain piping shall discharge to the outside 6" maximum above grade unless noted otherwise.

T. Where sprinklers are required under oval or round duct, the centerline of the sprinkler shall be under the centerline of the duct.

3.2 INTERFACE WITH OTHER PRODUCTS

A. Ensure required tamper and flow devices are installed and connected as required to fire alarm system including but not limited to Floor control valves, alarm check valve, elevator shaft isolation valve, Post Indicator Valve (PIV) and backflow device valves.

3.3 SCHEDULES

A. System Hazard Areas:
1. Office & Public Areas, and similar occupancies – Light Hazard Design; 0.10 GPM/sq. ft. over the most remote 1500 square foot.
2. Building Service Areas, Electrical Equipment Rooms, General Storage Areas, Laundries, Mechanical Equipment Rooms, Restaurant Service Areas, and similar occupancies – Ordinary Hazard Group 1 Design; 0.15 GPM/sq.ft. over the most remote 1500 square foot.

END OF SECTION

ALPHA BLDG SET 05-16-2025

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FIRE PROTECTION SPECIFICATIONS

Retrofit & Renovations for
Madison Methodist Church

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	JWK/KMP
CHECKED BY:	KMP
DESCRIPTION:	CD-REVIEW-DOCS
DATE:	12.02.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW
DATE:	12.02.24
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.24

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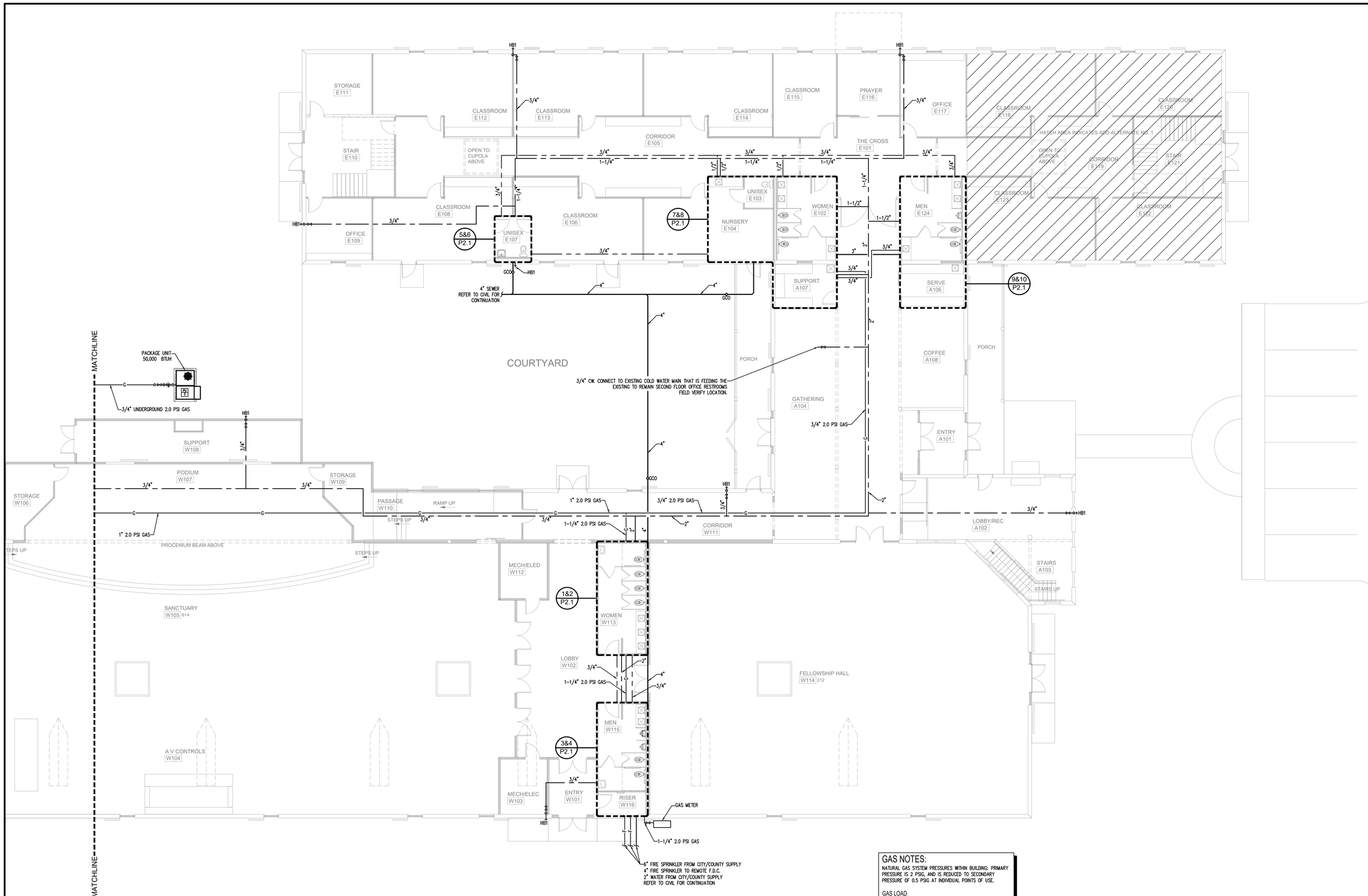

1 PLUMBING PLAN
SCALE: 1/8"=1'-0"

GAS NOTES:

NATURAL GAS SYSTEM PRESSURES WITHIN BUILDING: PRIMARY PRESSURE IS 2 PSIG, AND IS REDUCED TO SECONDARY PRESSURE OF 0.5 PSIG AT INDIVIDUAL POINTS OF USE.

GAS LOAD:
199,000 BTUH WH1 WATER HEATER
199,000 BTUH WH2 WATER HEATER
180,000 BTUH PU-1 PACKAGE UNIT
180,000 BTUH PU-2 PACKAGE UNIT
50,000 BTUH PU-3 PACKAGE UNIT

TOTAL BTUH: 808,000 BTUH

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PLUMBING PLAN

Retrofit & Renovations for Madison Methodist Church

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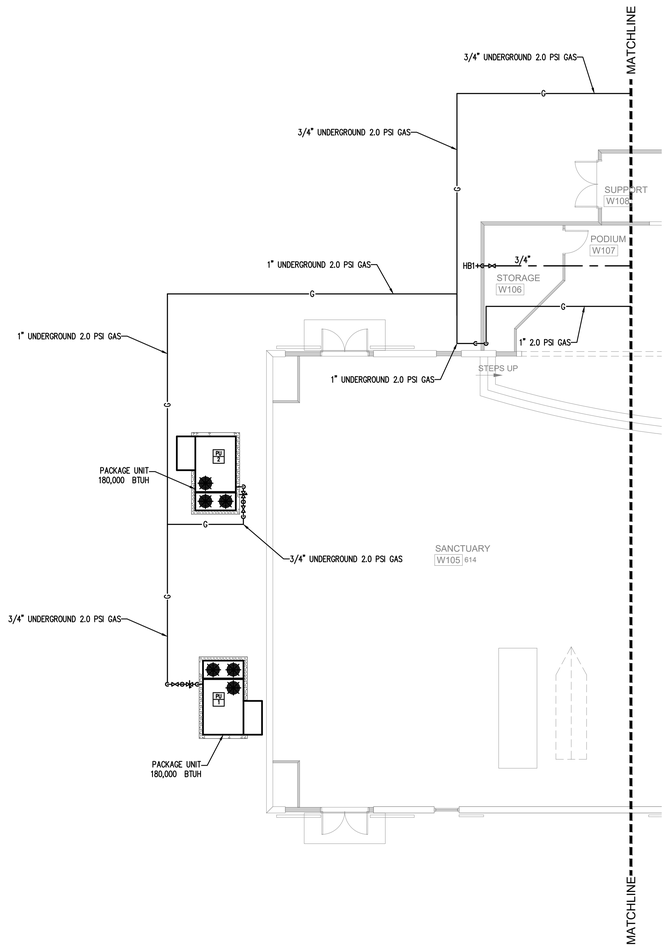

1 EAST SIDE OF SANCTUARY PLUMBING PLAN
SCALE: 1/8"=1'-0"

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EAST SIDE OF SANCTUARY PLUMBING PLAN

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

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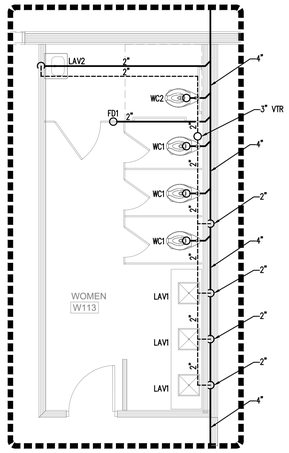
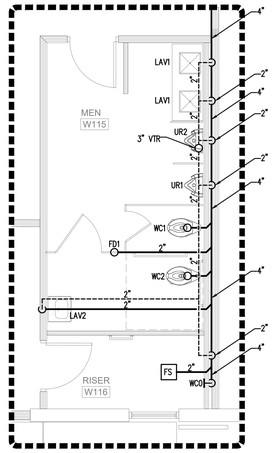
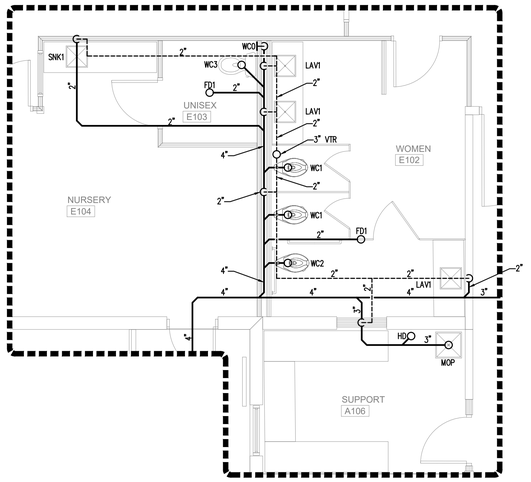


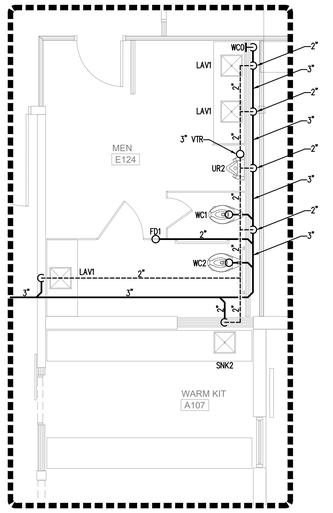
1 WORSHIP MEN'S RESTROOM PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"



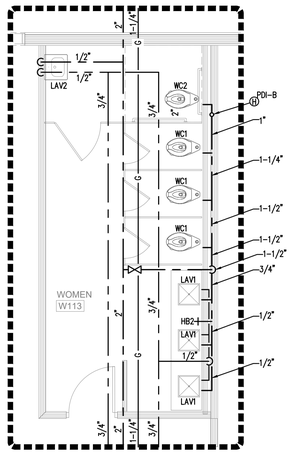
3 WORSHIP MEN'S RESTROOM PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"



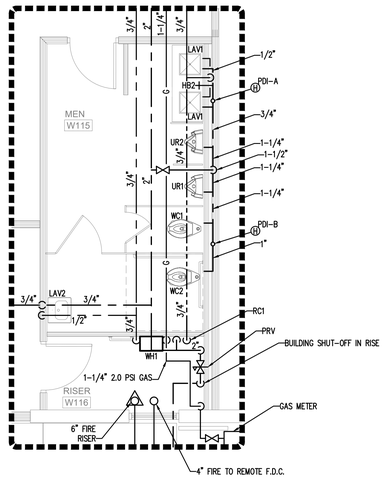
7 EDUCATION WOMEN'S RESTROOM PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"



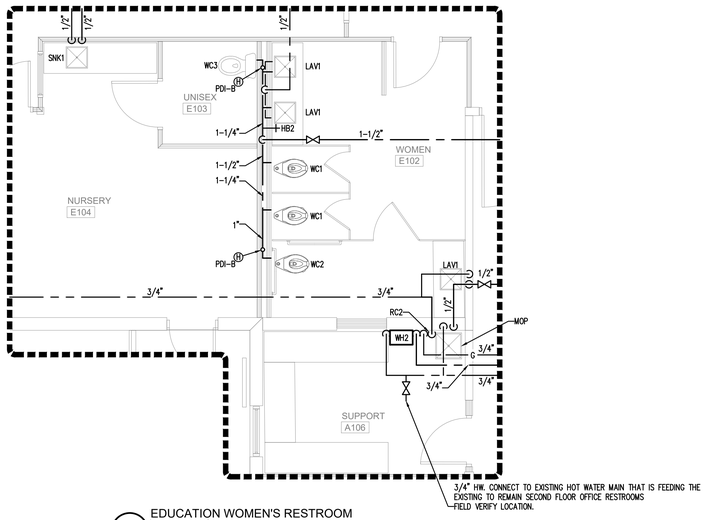
9 EDUCATION MEN'S RESTROOM PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"



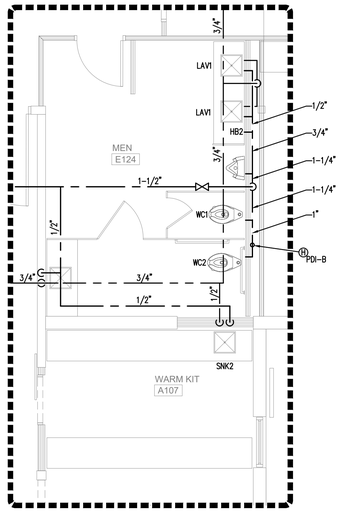
2 WORSHIP MEN'S RESTROOM PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"



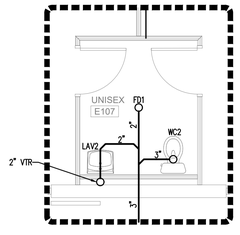
4 WORSHIP MEN'S RESTROOM PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"



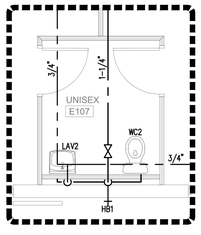
8 EDUCATION WOMEN'S RESTROOM PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"



10 EDUCATION MEN'S RESTROOM PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"



5 EDUCATION CLASSROOM RESTROOM PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"



6 EDUCATION CLASSROOM RESTROOM PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"

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ENLARGED PLUMBING PLANS

Retrofit & Renovations for Madison Methodist Church

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MECHANICAL SPECIFICATIONS

1) Provide all heating, ventilation and air conditioning items indicated on the drawings, described in this specification or required for a complete and proper installation.

2) Comply with all pertinent codes, ordinances and regulations. Refer to website for Dept. of Community Affairs for current Codes Editions.

3) The contractor shall not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearances. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or the actual building construction, shall be made at no additional cost to the owner.

4) Furnish without extra charge, any additional material and labor required to comply with the above codes and standards, even though the work may not be described in the contract documents. Where the requirements of the contract documents exceed the requirements of the above codes and standards, the contract documents shall take precedence.

5) All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings and shall be UL listed.

6) Cooperate and coordinate with other trades in order that all systems in the work may be installed in the best arrangement.

7) Examine the areas and conditions under which work of this section will be installed. Correct conditions detrimental to the proper and timely completion of the work. Notify Architect of any discrepancies. Do not proceed until unsatisfactory conditions have been corrected.

8) Avoid interference with structure, and with work of other trades. Install all equipment per manufacturer's instructions. Install accessible parts, including equipment, coils, valves, dampers, controls, and filters with adequate clearance for inspection, adjustments, repair and replacement.

9) All other materials not specifically described but required for a complete and proper installation shall be as selected by the contractor subject to acceptance by the Engineer.

10) All ductwork shall be fabricated from galvanized sheet metal duct and conform to SMACNA "HVAC Duct Construction Standards–Metal and Flexible. Seal all joints in ductwork with mastic sealant.

11) Flexible duct: Flex master; Atco UPC#36(R–6.0); Atco UPC#31 (R–8) or Thermaflex, Type 3, insulated. 5'–0" Maximum length unless noted otherwise. Class 1 rating with R–value of 6.0 when located inside building insulation envelope and R–8 when located outside building insulation envelope. Install with no more than 135 degrees maximum of total bends per run. Maximum individual bend shall not exceed 45 degrees each. Support at five feet on centers with hangers having at least 2–inches of width at duct contact points. Flexible connectors shall not pass through any wall floor or ceiling weather rated or not. Provide 36–inches of metal duct at penetration of draft stops, fire walls and smoke walls.

12) Outside duct Insulation: Insulate ducts and fittings with two, staggered layers of 1½–inch foamed plastic sheet insulation, (Arma–Flex sheets) 6–pound density, having a thermal conductivity of not more than 0.28 at 75ºF. Apply insulation with smooth side out of coating both surfaces to be joined completely with a thin coat of waterproof instant bonding adhesive. Adjacent sheets shall fit under compression. Apply a 16–mil embossed aluminum jacket with a 2–inch overlap at longitudinal and transverse joints, secured in place with ½–inch by .015–inch aluminum bands on 18–inch centers. Overall insulation value must be R–8 for exterior duct as per ASHRAE 90.1 & IECC.

13) Duct Liner: Owens Corning Aeroflex Plus, or equivalent. Incombustible glass fiber complying with ASTM C 1071; flexible blanket; impregnated surface and edges coated with acrylic polymer shown to be fungus and bacteria resistant by testing to ASTM G 21. Apparent Thermal Conductivity: Maximum of 0.31 at 75 degrees F. Service Temperature: 250 degrees F. Density: 1.5 pounds/cubic foot. Install using adhesive (50% coverage) and galvanized steel fasteners with welded press–on head Thickness: 1–inch.

14) Condensate drain piping shall be ASTM D2665 PVC with solvent welded fittings. Drain piping shall be no smaller than the drain connection size on equipment. Slope at 1/8 inch per foot continuously toward drains. All indoor condensate drain piping shall be insulated with preformed flexible plastic cellular foam. All outdoor condensate drain piping shall be primed and painted with a coating system recommended by the piping manufacturer for protection against deterioration from weather and UV–light exposure. All piping shall be adequately supported to maintain proper slope and avoid sagging.

15) Refrigerant piping shall conform to manufacturer's recommendations and installation instructions. Refrigerant piping shall be ASTM B280 Type ACR or ASTM B88 Type L drawn copper tubing with wrought copper fittings. Insulate suction line with ½? thick flexible foamed plastic cellular foam (Armaflex or equivalent). All piping shall be adequately supported. Insulation installed outdoors shall be painted with two coats of Armacell WB coating or equivalent. Refrigerant pipes shall be installed in accordance with ASHRAE standard 15–2022 section 9.12 and shall be tested in accordance with ASHRAE standard 15–2022 section 9.13. Contractor shall issue a letter to design team stating that refrigerant pipes has been installed and tested under the referenced sections. Contractor shall refer to ASHRAE standard 15–2022 sections 9.10 and 9.11 for additional information regarding refrigerant piping. Penetration of refrigerant pipes shall be protected with a through penetration protection means. The through penetration protection shall be the same or higher rating than the assembly.

16) Thermostats: Provide 24 volt, programmable 24–hour, 7–day thermostat to control heating stages in sequence with delay between stages and supply fan to maintain temperature setting. For Heat Pumps include system selection switch heat–off–cool and fan control switch (auto–on), emergency heat switch (auxiliary/emergency heat indicator lights).

17) Provide fire and smoke rated flexible connections between fans and ducts. Material shall comply with NFPA 90A requirements for material in supply air stream.

18) Install all equipment in accordance with manufacturer's instructions and recommendations including clearances recommended for proper operation or service. All filters and serviceable parts shall be readily accessible.

19) Indoor duct insulation: Foil–faced fiberglass, Owens Corning type 75 or equal, 2.2" thick(R–6), unless the insulated duct is outside building insulation envelope (attic, crawlspace or unconditioned space) in which case the duct insulation thickness shall be 3? thick(R–8). Duct shall have a flame spread rating of not more than 25 and smoke developed rating of not more than 50. Glass–Fiber Insulation: All service duct wraps with foil scrim and having backing and a k–value of 0.30 at 75° F mean temperature and an average maximum density of 0.75 lb./cu. ft.

20) All supply, return and outside air ducts shall be insulated. Install acoustical duct liner on the interior surface of the first five (5) linear feet of supply duct downstream and the last five (5) linear feet of return duct upstream of all air handlers and rooftop units. Insulate the concealed tops of all ceiling mounted supply air diffusers with foil–faced fiberglass, 1.5#/cubic foot density, 2? thick. Seal edges to ceiling grid with foil faced tape to provide vapor tight seal.

21) All low–pressure duct branches shall contain manual balancing dampers. Manual balancing dampers shall also be installed in the continuation of the main, if the main duct is smaller or the same size as the branch duct, or if the continuation of the main serves only one device.

22) Make all duct elbows right angle type with single –thickness turning vanes or construct with centerline radius 1–1/2 times the duct width.

23) Duct sizes shown on plans are clear, interior dimensions. Duct sizes shown shall be enlarge to allow for liner at locations of interior liner.

24) Do not cut into or reduce the size of any structural member without the permission of the Architect.

25) Provide weather–proof flashing at all duct and pipe penetrations through the building walls and roof. As a minimum, flashings shall be designed and installed in accordance with SMACNA standards. Flashings shall be guaranteed weatherproof.

26) Support all HVAC units, ductwork, piping and other appurtenances from structure, provide vibration isolation at all fans which are not internally isolated. Provide hanger rod with built in rubber–in–shear isolator. Between drain pan and unit provide 4 each rubber–in–shear isolator. Do not attach vibration isolator to drain pan. Do not screw or drive fasteners into non–structural components such as roof decks or non–load bearing walls.

27) Thoroughly clean all components and remove all dirt, scale, oil, and other foreign substances. Provide clean air filters for all equipment.

28) Perform all tests necessary to demonstrate the integrity of the complete installation to the approval of the Engineer and all other authorities having jurisdiction. Make all adjustments necessary and balance the completed system in accordance with the data shown. Balance the systems in accordance with NEBB or AABC standards. Acceptable tolerances shall be minus ten percent to plus five percent of all measurements. Balancing shall be done by an independent licensed (by NEBB or AABC) TAB contractor. Make the following tests and submit reports to the Architect:
   a) Airflow rate at each supply, return and exhaust outlet or inlet.
   b) Total airflow rate and total static pressure for each supply and exhaust fan. Test exhaust fans with room doors closed.
   c) Motor speed, for multiple speed fans (e.g. high, medium, low).
   d) For direct drive fans, provide speed settings and actual rpm, including ECM motor driven fans
   e) Provide fan and motor rpm for belt driven fans. Provide sheave sizes.
   f) Outside airflow rate to each HVAC unit and supply fan.
   g) Motor current (and compare with nameplate data) at all motors.
   h) Entering and leaving air dry–bulb and wet–bulb conditions at all cooling coils.
   i) Heat output capacity for unit heaters, heating devices and coils (kW or MBH).
   j) Manufacturer, model and serial number for each piece of HVAC equipment scheduled on drawings.
   k) Calibrate thermostats to be within one degree of actual temperature at thermostat.
   l) Verify that all HVAC devices operate as scheduled or indicated (i.e. ON–OFF, 2–stage, variable output (SCR heaters), etc.

29) The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. Compressors shall include a minimum of five (5) year parts only warranty from the manufacturer. All labor and materials necessary to repair or replace the system or portions thereof, during that time shall be warranted for a period of one (1) year from the repair of replacement.

30) SUBMITTALS AND SUBMITTAL PROCEDURES:
   a. Contractor shall review the submittal data and check for the purpose of compliance with safety requirements, verification of dimensions, contract documents and methods and means prior to submitting to design professional. Contractor shall indicate approval by indicating such on the submittal.
   b. Transmit each submittal electronically in PDF format.
   c. Sequentially number submittal files and transmittal form. Revise submittals with original number and a sequential alphabetic suffix. File names shall describe item included in file.
   d. Identify Project, the Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy. Each file shall include an index of items included in file.
   e. Apply the Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
   f. Submittal data for all items in project shall be submitted at one time. Submittal shall be divided into groups with file sizes not exceeding 6 MB. If there is unavailable data such as control submittal, etc., these may be submitted later if not doing so would delay project progress. Data shall include capacities, complete installation instructions, dimensional data and electrical data, BHP, motor HP, operating weights and load distribution at mounting points.
   g. Deliver submittals electronically to the Design Professional.
   h. Schedule submittals to expedite the Project, and coordinate submission of related items.For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
   i. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
   j. Provide space for the Contractor and the Architect/ review stamps.
   k. When revised for resubmission, identify all changes made since previous submission.
   l. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
   m. Submittals not requested will not be recognized or processed.
   n. Provide files containing only related items (such as piping, equipment, air distribution, etc.)

31) Instruct Owner's representative in the operation of the systems, using the operation and maintenance manual as a teaching aid.

32) Provide an operation and maintenance manual. As a minimum, the manual shall contain:
   a. A complete list of all equipment and appurtenances with equipment designations (per Drawings), manufacturers, and catalog numbers.
   b. Copies of manufacturers' brochures and instructions for operation and maintenance of all mechanical equipment, including replacement parts lists.
   c. Typed system operation and maintenance instructions, including inspection, lubrication, and service instructions and schedules.
   d. List of names, addresses and phone numbers of distributors of all equipment and appurtenances.
   e. Manufacturers' warranties.

33) Horizontal Air Handler unit: Indoor fan–coil unit shall be direct–expansion horizontal heat pump air handler with electric strip heat suspended from structure with auxiliary drip pan and condensate drain. Provide float switch in drip pan to shut down unit if pan begins to fill. Unit shall be complete with cooling coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Cabinet shall be fully insulated for improved thermal and acoustic performance. Condensate pan shall have internal trap and auxiliary drip pan under coil header. Provide condensate trap recommended by manufacturer. Air filters shall be 1–inch–thick glass fiber, disposable type arranged for easy replacement. Provide number of stages as scheduled. Provide condensate overflow switch (Rectorseal Safe–T–Switch Model SS1 or equivalent) wired to shut unit down in case of condensate overflow.

34) Vertical Air Handler unit: Indoor fan–coil unit shall be direct–expansion vertical heat pump air handler with electric strip heat mounted on plenum with auxiliary drip pan and condensate drain. Provide float switch in drip pan to shut down unit if pan begins to fill. Unit shall be complete with cooling coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Cabinet shall be fully insulated for improved thermal and acoustic performance. Condensate pan shall have internal trap and auxiliary drip pan under coil header. Provide condensate trap recommended by manufacturer. Air filters shall be 1–inch–thick glass fiber, disposable type arranged for easy replacement. Provide number of stages as scheduled. Provide condensate overflow switch (Rector seal Safe–T–Switch Model SS1 or equivalent) wired to shut unit down in case of condensate overflow.

35) Small Split Air Handler unit (4 WAY): The unit shall be a four–way cassette style indoor unit that recesses into the ceiling with a ceiling grille. The indoor unit shall be factory assembled, wired and run tested. Contained within the unit shall be all factory wiring, piping, electronic modulating linear expansion device, control circuit board and fan motor. The unit shall have a self–diagnostic function, 3–minute time delay mechanism, an auto restart function, an emergency operation function and a test run switch. Indoor unit and refrigerant pipes shall be charged with dehydrated air before shipment from the factory. The unit shall be provided with an integral condensate lift mechanism that will be able to raise drain water 19–3/4? inches above the condensate pan. Both refrigerant lines to the indoor units shall be insulated with ½? closed cell foam plastic 9?armaflex? Refer to Schedule on Drawings for additional specifications.

36) Small Split Condensing unit: Casing: House components in welded steel frame with galvanized steel panels with weather resistant, baked enamel finish. Mount contactors and controls in weatherproof panel provided with full opening access doors. Provide removable access doors or panels with quick fasteners. Compressor: Hermetically sealed, 3600 rpm maximum, resiliently mounted with positive lubrication and internal motor protection. Compressor: Hermetic reciprocating type or Hermetic scroll type. Condenser Coils: Aluminum fins mechanically bonded to seamless copper tubing or all aluminum fins and tube. Air test under water to 425 psig, and vacuum dehydrate. Seal with holding charge of refrigerant. Coil Guard: Louvered or PVC coat steel wire. Fans and motors: Direct driven propeller type condenser fans with fan guard on discharge. Weatherproof motors suitable for outdoor use, single phase permanent split capacitor with permanent lubricated ball bearings and built in thermal overload protection. Fan Guard: PVC coat steel wire. Refrigerant circuit: For each refrigerant circuit, provide: Filter dryer liquid line. Suction accumulator. Suction and liquid line service valves and gage ports. Charging valve. Condenser pressure relief mechanism. Factory wired with single point power connection. Factory wired controls shall include contactor, high– and low–pressure cutouts, internal winding thermostat for compressor, control circuit transformer, non–cycling reset relay. Provide a surge capacitor and lightning arrestor in unit cabinet for protection from power surges due to lightning and switching transients. Provide controls to permit operation down to 0 degrees F ambient temperature were scheduled to include: Crankcase heater with thermostat. Head pressure switch to cycle fan motors in response to refrigerant condensing pressure. Solid state control to vary speed of one condenser fan motor in response to refrigerant condensing pressure. Refer to Schedule on Drawings for additional specifications.

37) Air Source Heat Pumps (HP): outdoor–mounted, air–cooled split system outdoor section suitable for rooftop installation, consisting of a hermetic compressor, an air–cooled coil, propeller–type blow–thru outdoor fans, accumulator, full refrigerant charge, and control box. Unit shall function as the outdoor component of an air–to air cooling system and used in a refrigeration circuit matched to the indoor unit. Unit construction shall comply with ANSI/ASHRAE 15, latest revision, the NEC, and UL standards. Provide rail support system compatible with roofing system. Refer to Schedule on Drawings for additional specifications.

38) Provide a duct smoke detector on the supply duct of each air handling unit or rooftop unit with design airflows exceeding 2,000 CFM, and where smaller air handling units have common return ductwork or plenum and total air flow exceeds 2,000 CFM. Install detector in accordance with the International Mechanical Code section 606 Smoke Detection Control System with Georgia Amendments 2018. Detectors shall be provided by the electrical/fire alarm subcontractor and shall be installed by the mechanical subcontractor. For other fans, such as exhaust fans with design airflows exceeding 2,000 CFM, coordinate with the electrical/fire alarm subcontractor to provide room or duct smoke detectors. Where no fire alarm system is installed in building provide smoke detector, audio visual annunciator and trouble indicator in an approved location. Duct smoke detector trouble conditions shall activate a visible or audible signal in an approved location and shall be identified as air duct detector trouble. Provide contacts to automatically shut down all such fan motors when smoke is detected, to indicate detector status to the fire alarm system, and to require a manual reset of the shut–down relay.

39) Fire damper; curtain type with blades outside air stream except when located behind grilles when blades may be in air stream. Provide 1–1/2 hr class unless noted otherwise, vertical or horizontal mounting as shown on drawings with re–placeable, rated, fusible link. Duct–Mounted Access Doors: Provide access doors for access to fire or smoke dampers having fusible links, doors shall be pressure relief access doors; and shall be outward operation for access doors installed upstream from dampers and inward operation for access doors installed downstream from dampers adjacent to and close enough to fire or smoke dampers, to reset or reinstall fusible links. Fabricate access panels according to SMACNA's "HVAC Duct Construction Standards – Metal and Flexible"; Figures 2–10, "Duct Access Doors and Panels," and 2–11, "Access Panels – Round Duct."

40) Grilles, Registers and Diffusers: Grilles, registers, and diffusers as indicated on the drawings have been selected from the catalog of the manufacturer noted as the basis of design. Sizes, types, and performance of the devices to be provided must be coordinated to insure conformity with design basis. Sidewall supply grilles and registers shall have vertical front blades; sidewall return grilles shall have horizontal blades. Grilles and registers with borders shall have felt or rubber gaskets cemented to the back face and holding screws not over 18 inches on centers around the perimeter. Holding screws shall be counter–sunk to fit flush with face of grille or register. Grilles passing air through partitions shall be as described for wall return grilles, one for each side of partition. Register dampers shall be of the gang–operated, opposed blade type, operated through the face of the register. Operating mechanism shall not project through the register face. Mounting frame shall be coordinated with architectural reflected ceiling plans. Construction shall be of steel or aluminum as scheduled, with frame type to match ceiling construction. Sidewall supply grilles and registers shall be double–deflection type, with vertical front vanes. Construction shall be of steel, with 3/4–inch blade spacing. Return air grilles, return air registers, exhaust grilles, exhaust registers and transfer air grilles located in ceilings shall be constructed of aluminum with "egg–crate" design, with 1/2–inch x 1/2–inch x 1/2–inch grids. Frame style shall be compatible with ceiling construction. Install wall grilles and registers with horizontal edges parallel to ceiling. Concentric diffuser assemblies at roof top units shall have paint–ready exterior finish and 1–inch lined supply and return ducts that transition to diffuser size within 24 inches vertically of the bottom of roof top unit curb.

41) Basic motor requirements: basic requirements apply to mechanical equipment motors, unless otherwise indicated. Motors 1/2 hp and larger: Polyphase, unless otherwise scheduled. Motors smaller than 1/2 hp: single phase. Frequency rating: 60 Hz. Service factor: according to NEMA MG 1, general purpose continuous duty, design type "B." Enclosure: open drip–proof, unless otherwise indicated. Efficiency: motors shall have a higher efficiency rating than industry standard average motor as delineated in IEEE Standard 112, test method 13. Thermal protection: where indicated or required, internal protection automatically opens power supply circuit to motor when winding temperature exceeds a safe value calibrated to temperature rating of motor insulation. Thermal protection device automatically resets when motor temperature returns to normal range, unless otherwise indicated.

42) Hangers and supports: Building attachments: concrete inserts or structural–steel fasteners appropriate for building materials, and beam clamps. Hanger materials: galvanized, sheet steel or round, threaded steel rod. Hangers installed in corrosive atmospheres: electrogalvanized, all–thread rod or galvanized rods with threads painted after installation. Straps and rod sizes: comply with SMACNA's "HVAC Duct Construction Standards––Metal and Flexible" for sheet steel width and thickness and for steel rod diameters. Duct attachments: sheet metal screws, blind rivets, or self–tapping metal screws; compatible with duct materials. Trapeze and riser support galvanized steel shapes and plates: steel shapes complying with ASTM A 36/A 36M.

43) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of adhesive or mastic nature but includes tapes and combinations of open–weave fabric strips and mastics. Joint and seam tape: 2 inches wide; glass–fiber fabric reinforced. Joint and seam sealant: one–part, nonsag, solvent–release–curing, polymerized butyl sealant, formulated with a minimum of 75 percent solids. Flanged joint mastics: one–part, acid–curing, silicone, elastomeric joint sealants, complying with ASTM C 920, type S, grade NS, class 25, use O.

44) Packaged Roof Top Units–Gas Heat: Outdoor packaged units, ground mounted, electrically controlled, 2–stage stage cooling with gas heat units, as scheduled, utilizing scroll hermetic compressor(s) for cooling duty and an indirect fired gas furnace section for heating duty. Unit shall discharge supply air vertically. Unit shall exceed ASHRAE 90.1–2001 Energy Standards, be rated in accordance with ARI Standards 210/240 or 360 and 270, in accordance with UL Standard 1995, conform to ASHRAE 15, latest revision, be UL–tested and certified in accordance with ANSI Z21.47 Standards. Factory assembled, single–piece heating and cooling unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, refrigerant charge, and thermal expansion valve. Unit cabinet shall be constructed of galvanized steel, and shall be phosphatized/bonderized and coated with a pre–painted baked enamel finish on all externally exposed surfaces. Coils shall have aluminum fins mechanically bonded to copper tubing. Evaporator fan compartment interior cabinet surfaces shall be insulated with a minimum 1/2–in. thick, 1 lb. density, flexible fiberglass insulation, neoprene coated on the air side. Cabinet insulation shall meet ASHRAE Standard 62P. Aluminum foil–faced fiberglass insulation shall be used in the gas heat compartment. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation. Cabinet panels shall be easily removable for servicing. Condenser coils shall have protective wire guards. Unit shall have a factory–installed, sloped condensate drain pan made of a non–corrosive material, with a minimum 3/4–in.–14 NPT connection and shall comply with ASHRAE Standard 62. Unit shall have 2–inch pleated MERV 7 disposable filters a removable, filter access panel to provide filter access. Unit shall have standard thru–the–bottom utility connection capability and accessory powered convenience receptacle. Provide matching pre–fabricated roof curb with direct, duct attachment capability. Provide low– and high–pressure safety switches, anti–short cycle safety, and low ambient operation. Provide microprocessor control panel and complete, factory–wired controls, including discharge air temperature sensor, and communications interface. Refer to schedule for layout basis. Substitutions shall match the features of specified model. Provide condensate overflow switch (Rectorseal Safe–T–Switch Model SS1 or equivalent) wired to shut unit down in case of condensate overflow. Refer to Schedule on Drawings for additional specifications.

45) BI–POLAR IONIZATION DESIGN & PERFORMANCE CRITERIA:

The Bi–polar Ionization system shall be capable of effectively killing microorganisms downstream of the bi–polar ionization equipment (mold, bacteria, virus, etc.). Controlling gas phase contaminants generated from human occupants, building structure and furnishings. Capable of reducing static space charges. Increasing the interior ion levels, both positive and negative, to a minimum of 800 ions/cm? measured 5 feet from the floor. Self–cleaning requiring no maintenance or replacement parts. Producing a minimum of 160M ions/cc. The bi–polar ionization system shall operate in a manner such that equal amounts of positive and negative ions are produced. Uni–polar ion devices shall not be acceptable.

Velocity Profile: The air purification device shall not have maximum velocity profile.

Humidity: Plasma Generators shall not require preheat protection when the relative humidity of the entering air exceeds 85%. Relative humidity from 0 – 100%, condensing, shall not cause damage, deterioration or dangerous conditions within the air purification system. Air purification system shall be capable of wash down duty.

Equipment Requirements: Electrode Specifications (Bi–polar Ionization): Each Plasma Generator with Bi–polar ionization output shall include the required number of electrodes and power generators sized to the air handling equipment capacity. A minimum of one electrode pair per 2,400 CFM of air flow shall be provided. Bi–polar ionization tubes manufactured of glass and steel mesh shall not be acceptable due to replacement requirements, maintenance, performance output reduction over time, ozone production and corrosion. Electrodes shall be energized when the main unit disconnect is turned on and the fan is operating. Electrodes shall be made from carbon fiber to prevent oxidation over time. Internal circuitry shall be provided to sense air flow across the electrode output.Ionization systems requiring the use of a mechanical air pressure switch to cycle the electrodes only when the fan is operating shall not be acceptable due to high failure rates and pressure sensitivity. Electrode pair shall provide a minimum of 160 million ions per cubic centimeter as measured at 2 inches, both positive and negative ions, in equal quantities. Devices providing less than 160 million ions/cc per electrode pair shall not be acceptable. Each Plasma Generator shall be provided with a self–cleaning system that is field programmable to change the number of days between the cleaning cycle. Systems without a no–maintenance, self–cleaning system shall not be acceptable. Each electrode pair shall be designed with a banana style plug such that it can be field replaced, if necessary. Each Plasma Generator shall be provided with an inline on/off switch, universal voltage input (24VAC to 240VAC or DC), magnets for mounting to the fan inlet, replaceable carbon fiber emitters and a programmable self–cleaning system.

Air Handler & Plenum Mounted Units (non–ductless mini–split units): Where so indicated on the plans and/or schedules Plasma Generator(s) shall be supplied and installed. The mechanical contractor shall mount the Plasma Generator and wire it to the AHU control power (24VAC) as instructed by the Air Purification Manufacturer's instructions or line voltage subject to power available. Each unit shall be designed with a molded casing, self–cleaning system, self–cleaning test button, power status LED and dry contacts to prove ion output is operating properly. The dry contacts shall close to prove the ion generator is working properly and may be daisy chained in series such that only one dry contact per AHU is required to interface to the BAS or the optional DDC controller. Dry contacts proving power has been applied in lieu of the ion output is actually operating, are not acceptable. Manufacturers providing multiple ion modules that have alarm status wired in parallel, and not in series, shall not be acceptable.

Ionization Requirements: Plasma Generators with Bi–polar ionization output shall be capable of controlling gas phase contaminants and shall be provided for all equipment listed above.

The Bi–polar ionization system shall consist of Bi–Polar Plasma Generator and integral power supply. The Bi–polar system shall be installed where indicated on the plans or specified to be installed. The device shall be capable of being powered by 24VAC to 240VAC without the use of an external transformer. Ionization systems requiring isolation transformers shall not be acceptable.

Ionization Output: The ionization output shall be controlled such that an equal number of positive and negative ions are produced. Imbalanced levels shall not be acceptable.

Ionization output from each electrode shall be a minimum of 160 million ions/cc when tested at 2? from the ionization generator.

All manufacturers shall provide documentation by an independent NELAC accredited laboratory that proves the product has minimum kill rates for the pathogens given the allotted time and in a space condition:

Ozone Generation: The operation of the electrodes or Bi–polar ionization units shall conform to UL 867–2007 with respect to ozone generation. There shall be no ozone generation during any operating condition, with or without airflow.

Control Requirements: All Plasma Generators shall have internal short circuit protection, overload protection, and automatic fault reset circuit breakers. Systems with manual fuses shall not be allowed. Integral airflow sensing shall modulate the Plasma output as the airflow varies or stops. A mechanical airflow switch shall not be acceptable as a means to activate the Plasma device due to high failure rates and possible pressure reversal. The installing contractor shall mount and wire the Plasma device within the air handling unit specified or as shown or the plans. The contractor shall follow all manufacturer IOM instructions during installation. Dry contacts shall be provided to prove there are ions being produced. Systems providing indication that power is applied to the Plasma device, but not directly sensing the power at the ion output, shall not be acceptable.

46) All HVAC equipment such as AH, CU, EF, AC, HP, and RTU shall have visible nameplates with their associated marks on them.

47) Louvers: 6" deep, 12 gauge (0.081) etched and 30–minute clear anodized extruded aluminum, drainable blades and frame; back mounted 1/2" mesh 19–gauge screen; flange frame. Louver shall be rated for no water carry–through at 900 face velocity, 0.15" maximum pressure drop for 4–foot square sample tested according to AMCA Standard 500, 1973. American Warming LE–33 (alum.); Ruskin [ELF–6375D; Louvers & Dampers IEL–6; Industrial Louvers 653 alum.; Vent Products #4650; Shipman LE–33 (alum.); Arrow United EA615–D (alum.); Greenheck ESD–603. Provide adapter to match corrugations in metal panel.

48) Fabric Duct Specification:

- Product must be classified in accordance with the 25/50 flame spread/smoke development requirements of UL723 based on NFPA 90A – 1993, "Installation of Air Conditioning and Ventilating Systems". In addition, products must be classified in accordance with ICC Evaluation Service AC167 and UL 2518.
- Fabric Duct air dispersion system must design in software which documents, calculates and provides: pressure loss, inlet velocity, turbulent condition warnings, throw capability, entrainment, deflection, flow models, sizing, installation methods, sound generated and temperature corrections.
- Manufacturer must provide a 10 Year Non–Prorated Warranty. Prorated warranties are not accepted.
- Protect Fabric Duct systems from damage during shipping, storage and handling. Store products inside and protect from weather.
- Prihoda Fabric Duct Air Dispersion System shall be constructed of Classic (PMS) fabric. The material is a woven fire retardant and permeable fabric complying with the following characteristics:
  a. Fabric: 100% Flame Retardant Polyester
  b. Weight: 6.5 oz./yd² per ASTM D3776 minimum
  c. Strength: warp1880/ weft1090N Per ISO13934
  d. Shrinkage: Max. 0.5% per ISO 6330–2000
  e. Available Standard Colors: White (RAL 9016), Light Grey (Pantone 420/RAL 7035), Dark Grey (Pantone 424/RAL 7037), Yellow (Pantone 135/RAL 1017), Light Blue (pantone 2915/RAL 5012) Blue (Pantone 7462/RAL 5005) Green (pantone 340/ RAL7037) Black (Pantone 419/RAL9017), Red (Pantone187/RAL 3001). Custom color available, Architect/Owner must specify PANTONE or RAL number.
  f. Temperature Range: –75F to +230F
  g. Permeability: 2 cfm (+/–1) (to prevent condensation only)
  h. Fire Retardant: Must meet the requirements in NFPA 90–A, ICC AC–167 and UL2518
- Air Dispersion Method
  A. Laser Cut Perforations/holes (long throw)
     –4mm – 3? diameter project dependent.
     –Laser cut (punching method not acceptable)
     –location, number and size determined by manufacturer
     –directional Textile Air Control Pockets to prevent excessive air deflection
- Provide system in sections optimized for maintenance (16' maximum for diameters over 32?), connected by zippers. Zippers must provide closure completely around the circumference to prevent leakage.
- Each section to have a unique tag including information about: manufacturers order number, position, diameter of section, length of section, maintenance instruction, code compliance and contact details for spare parts.
- Zippered inlet connection.
- Endcap can be zippered or sewn to the last duct section as required.
- Equalizers (flow correctors) and/or dampers to be included as shown on plans or schedules.
- Include hooks which slide into track profile or snap on to wire/cable or continuous fabric strip which slides into track if shown in detail or noted on plans
- Include SS inlet clamp for securing to metal outlet connection point.
- Do not use fabric duct air diffusers in concealed locations (unless pressurized plenum space intended for air distribution).
- Fabric diffusers shall be designed from minimum 0.25? water gage to 3? as the maximum – 0.5? being the standard.
- Design temperatures between –75F and 230F
- Manufacturer shall approve all technical design parameters.
- Single Cable/Wire Suspension – One row cable system located 1.25? above 12 o'clock of Fabric duct system. Fabric Duct system to be attached to hardware using one single row of plastic hooks located 12 o'clock spaced 20 inches. Hardware to include cable, cable clamps, turnbuckles, and tie down straps as required. Support hangers spaced at
- Examine area and conditions under which the Prihoda Fabric Duct system is to be installed. Do not continue any installation until unsatisfactory conditions have been corrected.
- Install chosen suspension system in accordance with the requirements of the manufacturer. Installation instructions to be provided by the manufacturer with product.
- Coordinate layout with suspended ceiling, lighting layouts, and similar finished work.
- Clean air handling unit and other ductwork prior to the Prihoda fabric duct system as it is installed. Make sure that all dust and debris from installation is removed from the air handling unit and other ductwork before connecting the fabric duct system.
- If the Fabric duct system becomes soiled during the installation, it should be removed and cleaned following the manufacturers cleaning instructions.
- Internal rings (ALU, SS, or Heat–resistant plastic)
- Internal Aluminum Arcs (placed in roof of duct at factory from 10 to 2, holds duct open)
- Tensioning device to remove wrinkles/creases

49) Ceiling Ventilator shall have corrosion resistant galvanized steel housing with four–point mounting capability. It shall be ducted to a cap on wall or roof using round ductwork. Blower assembly shall be removable, have a centrifugal–type blower wheel and a permanently lubricated motor designed for continuous operation. Non–metallic damper/duct connector shall be included. Fan and heater shall be separately controllable. Fan shall contain electric heater Air delivery shall be no less than scheduled and sound level no greater than listed in the schedule. All air and sound ratings shall be certified by HVI.

50) Electric Wall Mount Heater: Heater shall be UL listed and labelled with terminal box and cover, and built–in controls. Heater shall be made in three pieces consisting of back enclosure, heater assembly and front panel. Front panel shall be attached with concealed fasteners. Heating Elements: Nickel–chromium heating element wire shall be encased in a steel or copper sheath. Aluminum fins shall be pressure bonded to the sheath. Enclosure: Enclosure shall be minimum 20–gauge painted steel for surface mounting. Front Panel: Bar grille type with down deflection toward floor. Finish shall be paint on steel bars. Grille shall be surrounded by decorative satin finished aluminum accent frame. Unit shall be fan forced type including fan motor, fan and controls with thermostat adjustment accessible through front grille. Unit shall also include thermal safety cutouts in the event of over temperature conditions. Refer to Schedule on Drawings for additional specifications.

51) Acceptable Manufacturers are:

Air Handlers & Heat Pumps, Packaged Units:	Carrier, Trane, York, Lennox
Small Split Units:	Mitsubishi, Daikin, Hitachi, Toshiba
Grilles, Registers & Diffusers:	Titus, Nailor, Price, Tuttle & Bailey, Kruger, Metal Aire (Color selection submitted to Architect)
Fans:	Twin–City, Cook, Greenheck, Penn Barry, Acme, American Cool Air, Captive Air, Solar & Palau
Electric Heaters:	Markel, Q–Mark, Roywall, Indica
Louvers/Dampers/Fire Dampers:	United Enertech, Greenheck, Ruskin, Arrow United, Lloyd Industries, Air Balance (Color selection submitted to Architect)
Controls–provided with unit:	Provide thermostats by same manufacturer as equipment

ALPHA BLDG SET 05-16-2025

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MECHANICAL SPECIFICATIONS

Retrofit & Renovations for
Madison Methodist Church
1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02405
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REVISIONS:
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SHEET
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OF

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	AIRFLOW	SUPPLY AIR CFM	MIN OUTSIDE AIR CFM	EXT. SP. IN. W.G.	NOMINAL TONS	EVAP. COIL ENTERING AIR DESIGN CONDITIONS DB F°	EVAP. COIL ENTERING AIR DESIGN CONDITIONS WB F°	EVAP. COIL LEAVING AIR DESIGN CONDITIONS DB F°	EVAP. COIL LEAVING AIR DESIGN CONDITIONS WB F°	SYSTEM COOLING MAX. REQUIREMENTS (MBH) TOTAL	SYSTEM COOLING MAX. REQUIREMENTS (MBH) SENSIBLE	OUTSIDE AIR TEMP. CONDITIONS DB F°	GAS HEAT MBH STAGE 1 IN/OUT	GAS HEAT MBH STAGE 2 IN/OUT	HEATING COIL @ OUTSIDE 25F ENT. TEMP @ STG 1	HEATING COIL @ OUTSIDE 25F LEAV. TEMP @ STG 1	POWER VAC/PH	BASIS OF DESIGN: CARRIER	WEIGHT LBS	NOTES
PU-1	HORIZONTAL	5,250	1000	1.0	15.0	78.5	65.5	55.0	54.0	180.0	135.0	95	144/118	180/146	61.5	87.5	208/3	48FEDN16M2A5-0A0A0	1800	1:2:3:4:5:6:7:8:9:10:11:12
PU-2	HORIZONTAL	5,250	1000	1.0	15.0	78.5	65.5	55.0	54.0	180.0	135.0	95	144/118	180/146	61.5	87.5	208/3	48FEDN16M2A5-0A0A0	1800	1:2:3:4:5:6:7:8:9:10:11:12
PU-3	HORIZONTAL	1,750	315	0.65	5.0	78.5	65.5	55.0	54.0	60.0	44.0	95	67/54	50/40	60.0	93.0	208/3	48GDBX06M2A5-0A0A0	700	1:2:3:4:5:6:7:8:9:10:12:13

1. PROVIDE FILTERS, CONDENSATE TRAP, PIPING, FLEXIBLE CONNECTIONS. PROGRAMMABLE T-STAT, AND CONDENSATE P-TRAP TO DISCHARGE INTO DRY WELL. HORIZONTAL SUPPLY AND HORIZONTAL RETURN UNIT. UNIT SHALL BE MOUNTED ON CONCRETE PAD.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PACKAGED UNIT SHALL HAVE MEDIUM STATIC MOTOR. PROVIDE MANUFACTURER'S APPROVED SOUND ATTENUATION BLANKETS FOR COMPRESSORS PROVIDE CONDENSER COIL GUARD.
4. PROVIDE MANUFACTURER'S SUPPLY AIR SMOKE DETECTOR. ELECTRICAL SHALL INTERLOCK IT WITH BUILDING FIRE ALARM SYSTEM. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE OVERFLOW SWITCH.
5. PROVIDE BUILT-IN HUMIDI-MIZER ADAPTIVE DEHUMIDIFICATION SYSTEM. HOT GAS REHEAT COIL SYSTEM SHALL WORK INDEPENDENTLY OF COOLING CIRCUIT TO CONTROL HUMIDITY WITHIN OCCUPIED SPACE.
6. PROVIDE MANUFACTURER'S 2-STAGE GAS HEAT. PROVIDE FLUE DISCHARGE DEFLECTOR THAT DEFLECTS FLUE UPWARD. PROVIDE FLUE DISCHARGE HEAT SHIELD.
7. PROVIDE MOTORIZED MINIMUM OUTSIDE AIR HOOD. INTERLOCK MINIMUM OUTSIDE AIR DAMPER TO OPEN WHEN EVAPORATOR FAN IS ON.
8. 2-STAGE COOLING WITH HUMIDI-MIZER. PROVIDE 2-SPEED INDOOR FAN CONTROLLED. FAN SHALL HAVE STAGED AIR VOLUME SYSTEM FOR COOLING.
9. UNDER HEATING SUPPLY CFM SHALL BE SET TO PROVIDE 1000 CF AIR AT BOTH STAGES. UNDER COOLING MODE STAGE FAN TO MATCH COOLING STAGE.
10. PROVIDE GLOBAL PLASMA IONIZATION SYSTEM. REFER TO SCHEDULE FOR FURTHER INFORMATION.
11. PROVIDE BASE ECONOMIZER WITH ELECTROMECHANICAL CONTROLS AND FIELD INSTALLED ECONOMIZER ACCESSORIES CRECOMZR106A00 WITH POL224. INSTALL RELIEF HOOD AT RETURN AIR DUCT.
12. PROVIDE TEMPERATURE ECONOMIZER WITH BAROMETRIC RELIEF. BAROMETRIC HOOD SHALL BE FIELD INSTALLED ACCESSORIES.
13. PROVIDE BASE ECONOMIZER WITH ELECTROMECHANICAL CONTROLS AND FIELD INSTALLED ECONOMIZER ACCESSORIES CRECOMZR102A00 WITH POL224. INSTALL RELIEF HOOD AT RETURN AIR DUCT.

MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND

	NEW PIPE, DUCTWORK OR EQUIPMENT
24x12 24x12	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
FD SCD SD	FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST AIR
	S.A DUCT OUT OF TU BOX WITH DUCT LINER FOR THR FIRST FIVE FEET OF DUCT OUT OF TU BOX
	SIDEWALL REGISTER OR GRILLE
	CHANGE IN PIPE OR DUCT SIZE OR SHAPE
R	REFRIGERANT PIPING
D	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
T	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
TC	TIME CLOCK
ø	DIAMETER
U.C.	UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
20 FB	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
4 S1 8"ø 300	ITEM IN HEXAGON SHOWS AIR DEVICE MARK NUMBER, ITEM ABOVE LINE SHOWS NECK SIZE, ITEM BELOW LINE SHOWS AIR FLOW THROUGH DEVICE, AND NUMBER IN FRONT SHOWS QUANTITY IF MORE THAN ONE
AFF	ABOVE FINISHED FLOOR
AH	AIR HANDLING UNIT
BD	BYPASS DAMPER
BTUH, MBH	BRITISH THERMAL UNITS, THOUSAND BRITISH THERMAL UNITS
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CU	CONDENSING UNIT
DB, WB	DRY BULB TEMPERATURE, WET BULB TEMPERATURE
EA, EG	EXHAUST AIR, EXHAUST GRILLE
EF	EXHAUST FAN
EXT SP	EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)
HP	HEAT PUMP UNIT
MVD, VD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
RA, RG	RETURN AIR, RETURN GRILLE
RTU	PACKAGED ROOFTOP UNIT
SA	SUPPLY AIR
A	AUDIBLE/VISUAL ALARM DEVICE CONNECTED TO DUCT SMOKE DETECTOR
VAC, PH	VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
W, KW	WATTS, KILOWATTS
AD AD	ACCESS DOOR
	RADIUS ELBOW (R=1.5)
	VANED ELBOW
MOD MOD	MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)

ELECTRIC CABINET HEATER SCHEDULE

MARK	HEATER KW	VOLTS/PH	BASIS OF DESIGN	NOTES
EWH-1	1.5	120/1	BROAN 174	1:2:3
EWH-2	1.5	120/1	BROAN 174	1:3:4

1. MOUNT UNIT HEATERS AT 90" AFF.
2. VERTICAL WALL MOUNTED EXPOSED HEATER.
3. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
4. VERTICAL WALL MOUNTED RECESSED WALL HEATER.

SELF-CLEANING IONIZATION SYSTEM SCHEDULE

AIRFLOW CAPACITY MIN-MAX CFM	BASIS OF DESIGN GLOBAL PLASMA SOLUTIONS	NOTES
0-2400	GPS-FC24-AC	1:2:3:4:5
0-1200	GPS-FC	1:4:7:8
0-8000	GPS-IMOD	1:2:3:4:6

1. ONE SELF CLEANING IONIZATION SYSTEM SHALL BE INSTALLED PER SYSTEM. INTERLOCK TO RUN WITH EVAPORATOR FAN.
2. UNIT SHALL BE EQUIPPED WITH UNIVERSAL VOLTAGE INPUT, IN-LINE ON-OFF SWITCH, PROGRAMMABLE AUTO-CLEANING CYCLE.
3. UNIT SHALL BE EQUIPPED WITH PLASMA ON INDICATION LIGHT, ALARM CONTACTS, MAGNETS, AND CARBON FIBER BRUSH EMITTERS.
4. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
5. USE THIS SYSTEM FOR UP TO 5-TON AIR HANDLING UNITS.
6. ONE IONIZATION SYSTEM PER GROUND MOUNTED PACKAGED UNIT PU-1 AND PU-2
7. SYSTEM SHALL BE USED FOR DUCTLESS MINI SPLITS.
8. SYSTEM SHALL BE EQUIPPED WITH CARBON FIBER BRUSHES AND LED OPERATION STATUS.

LOUVER SCHEDULE

MARK	W X H (INCHES)	CFM	FREE AREA (SQ. FT.)	PRESS. DROP (IN. W.G.)	(COLOR BY ARCHITECT)	BASIS OF DESIGN	NOTES
L-1	42"X18"	1250	2.14	0.06	ENAMEL	GREENHECK ESD 403	1:2:3:4
L-2	36"X12"	400	1.17	0.06	ENAMEL	GREENHECK ESD 403	1:2:3:4

1. COORDINATE WITH ARCHITECTURAL PLANS FOR LOUVER ELEVATION. PAINT LOUVER TO MATCH EXTERIOR WALL.
2. STATIONARY EXTRUDED ALUMINUM DRAINABLE BLADE LOUVER. PROVIDE WITH BIRDSCREEN AND FACTORY BAKED ENAMEL FINISH.
3. PROVIDE FULL SIZE 24-INCHES DEEP SHEET METAL PLENUM BEHIND PLENUM.
4. TOP OF LOUVER AT BOTTOM OF STRUCTURE.

HEAT PUMP AIR HANDLING UNIT SCHEDULE

MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. SP. IN. W.G.	EVAP. FAN HP	EVAP. COIL ENTERING AIR DESIGN CONDITIONS DB F°	EVAP. COIL ENTERING AIR DESIGN CONDITIONS WB F°	EVAP. COIL LEAVING AIR DESIGN CONDITIONS DB F°	EVAP. COIL LEAVING AIR DESIGN CONDITIONS WB F°	SYSTEM COOLING MAX. REQUIREMENTS (MBH) TOTAL	SYSTEM COOLING MAX. REQUIREMENTS (MBH) SENSIBLE	SUPPL HEAT KW	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
AH-1	1,400	250	0.60	3/4	78.2	65.3	55.0	54.0	44.8	34.1	7.5	250	208/1	FT4BNXC48L00	1:2:3:4:5:6:7:8:9
AH-2	1,400	250	0.60	3/4	78.2	65.3	55.0	54.0	44.8	34.1	7.5	250	208/1	FT4BNXC48L00	1:2:3:4:5:6:7:8:9
AH-3	1,400	250	0.60	3/4	78.2	65.3	55.0	54.0	44.8	34.1	7.5	250	208/1	FT4BNXC48L00	1:2:3:4:5:6:7:8:9
AH-4	1,400	250	0.60	3/4	78.2	65.3	55.0	54.0	44.8	34.1	7.5	250	208/1	FT4BNXC48L00	1:2:3:4:5:6:7:8:9
AH-5	1,400	250	0.60	3/4	78.2	65.3	55.0	54.0	44.8	34.1	7.5	250	208/1	FT4BNXC48L00	1:2:3:4:5:6:7:8:9
AH-6	700	120	0.60	1/2	76.8	64.1	55.0	54.0	21.9	16.9	3.8	250	208/1	FT4BNXC24L00	1:2:3:4:5:6:7:8:9
AH-7	700	120	0.60	1/2	76.8	64.1	55.0	54.0	21.9	16.9	3.8	250	208/1	FT4BNXC24L00	1:2:3:4:5:6:7:8:9

1. UNIT AT 208/1ø AUXILIARY HEATER AT 208/1ø UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE AIR FILTERS, DUCT CONNECTIONS AND VIBRATION ISOLATION. PROVIDE PROGRAMMABLE THERMOSTAT AND SUPP. ELEC. HEAT MODULE CONNECTED TO UNIT FOR SINGLE POINT OF CONNECTION.
4. PROVIDE CONDENSATE TRAP(S) AS RECOMMENDED BY MANUFACTURER AND ROUTE CONDENSATE PIPING TO HUB DRAIN.
5. PROVIDE AUXILIARY DRAIN PAN UNDER THE AIR HANDLERS WITH FLOAT ACTIVATED SWITCH TO SHUT THE UNIT DOWN INCASE OF CONDENSATE OVERFLOW. REFER TO DETAIL PROVIDED.
6. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR-HANDLING UNIT.
7. FLOAT ACTIVATED CONDENSATE SWITCH SHALL BE PROVIDED AND INSTALLED BY HVAC CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.
8. PROVIDE COIL OUTLET SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. WIRE COIL OUTLET SWITCH IN SERIES WITH AUXILIARY CONDENSATE SWITCH LOCATED IN DRAIN PAN.
9. PROVIDE GLOBAL PLASMA IONIZATION SYSTEM. REFER TO SCHEDULE FOR FURTHER INFORMATION.

AIR COOLED HEATPUMP UNIT SCHEDULE

MARK	AHU SERVED	HEAT PUMP HEATING CAP (MBH)	SEER2	HSPF2	NOM. CAP. (TONS)	REFRIG	OA TEMP SUMMER (DB)	OA TEMP WINTER (DB)	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
HP-1	AH-1	32.2	16.0	8.1	4.0	R410A	96	23	350	208/1	25TPB748A003	1:2:3:4:5:6
HP-2	AH-2	32.2	16.0	8.1	4.0	R410A	96	23	350	208/1	25TPB748A003	1:2:3:4:5:6
HP-3	AH-3	32.2	16.0	8.1	4.0	R410A	96	23	350	208/1	25TPB748A003	1:2:3:4:5:6
HP-4	AH-4	32.2	16.0	8.1	4.0	R410A	96	23	350	208/1	25TPB748A003	1:2:3:4:5:6
HP-5	AH-5	32.2	16.0	8.1	4.0	R410A	96	23	350	208/1	25TPB748A003	1:2:3:4:5:6
HP-6	AH-6	15.8	16.0	8.1	2.0	R410A	96	23	350	208/1	25TPA724A003	1:2:3:4:5:6
HP-7	AH-7	15.8	16.0	8.1	2.0	R410A	96	23	350	208/1	25TPA724A003	1:2:3:4:5:6

1. PROVIDE WITH DEFROST CONTROLS, LOW AMBIENT HEAD PRESSURE CONTROLS, AND ANTI-SHORT CYCLE TIMER. PROVIDE COIL GUARD.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE LIQUID LINE SOLENOID, CRANKCASE HEATER, TXV, START CAPACITOR AND RELAY AS RECOMMENDED BY MANUFACTURER FOR LONG LINE APPLICATIONS.
4. PROVIDE MOUNTING PAD AS PER DETAIL PROVIDED.
5. 2-STAGE COMPRESSOR UNIT.
6. PROVIDE LONG LINE ACCESSORIES PER NOTE 3 WHERE REFRIGERANT PIPE LENGTHS EXCEEDS 80-EQUIVLENT FEET.

MINI SPLIT & HEAT PUMP FAN COIL SYSTEM SCHEDULE

OUTDOOR UNIT MARK	INDOOR UNIT MARK	MIN COOLING MBH	MIN HEATING MBH @ 47F	SUPPLY AIR CFM	SEER	HSPF	POWER VAC/PH	CARRIER MODEL # OUTDOOR	CARRIER MODEL # INDOOR	SERVES	NOTES
HPU-1	ACU-1	16.0	18.0	420	20.0	10.5	208/1	38MAQB18R---3	40MBC018----3		1:3:4:5:6:8:9:10:11:12
HPU-2	ACU-2	12.0	12.0	400	19.5	10.6	208/1	38MAQB12R---3	40MBC012----3		1:3:4:5:6:8:9:10:11:12
HPU-3	ACU-3	24.0	24.0	878	20.0	11.5	208/1	38MAQB24R---3	40MBC024----3		1:3:4:5:6:8:9:10:11:12
HPU-4	ACU-4	24.0	24.0	878	20.0	11.5	208/1	38MAQB24R---3	40MBC024----3		1:3:4:5:6:8:9:10:11:12
HPU-5	ACU-5	24.0	24.0	878	20.0	11.5	208/1	38MAQB24R---3	40MBC024----3		1:3:4:5:6:8:9:10:11:12
HPU-6	ACU-6	24.0	24.0	878	20.0	11.5	208/1	38MAQB24R---3	40MBC024----3		1:3:4:5:6:8:9:10:11:12
HPU-7	ACU-7	24.0	24.0	878	20.0	11.5	208/1	38MAQB24R---3	40MBC024----3		1:3:4:5:6:8:9:10:11:12
HPU-8	ACU-8	24.0	24.0	878	20.0	11.5	208/1	38MAQB24R---3	40MBC024----3		1:3:4:5:6:8:9:10:11:12
HPU-9	ACU-9	16.0	18.0	420	20.0	10.5	208/1	38MAQB18R---3	40MBC018----3		1:3:4:5:6:8:9:10:11:12
HPU-10	ACU-10	16.0	18.0	420	20.0	10.5	208/1	38MAQB18R---3	40MBC018----3		1:3:4:5:6:8:9:10:11:12
HPU-11	ACU-11	12.0	12.0	400	19.5	10.6	208/1	38MAQB12R---3	40MBC012----3		1:3:4:5:6:8:9:10:11:12
HPU-12	ACU-12	24.0	24.0	878	20.0	11.5	208/1	38MAQB24R---3	40MBC024----3		1:3:4:5:6:8:9:10:11:12
HPU-13	ACU-13	24.0	24.0	878	20.0	11.5	208/1	38MAQB24R---3	40MBC024----3		1:3:4:5:6:8:9:10:11:12
HPU-14	ACU-14	16.0	18.0	420	20.0	10.5	208/1	38MAQB18R---3	40MBC018----3		1:3:4:5:6:8:9:10:11:12
HPU-15	ACU-15	24.0	24.0	878	20.0	11.5	208/1	38MAQB24R---3	40MBC024----3		1:3:4:5:6:8:9:10:11:12
HPU-16	ACU-16	24.0	24.0	878	20.0	11.5	208/1	38MAQB24R---3	40MBC024----3		1:3:4:5:6:8:9:10:11:12

1. VERIFY ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL PLANS WHICH TAKES PRECEDENCE OVER THIS INFORMATION.
2. MINI SPLIT SYSTEM MOUNTED ON WALL (SEE PLANS). PROVIDE MANUFACTURER'S WIRED THERMOSTAT.
3. ROUTE CONDENSATE AS NOTED ON DRAWINGS. COORDINATE WITH PLUMBING.
4. PROVIDE LONG LINE ACCESSORIES PER MANUFACTURER'S INSTRUCTIONS.
5. PROVIDE DISCONNECT AND ELECTRICAL CONNECTION TO OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTIONS.
6. CONTRACTOR MUST COORDINATE EXACT LOCATION OF DRAIN IN THE FIELD WITH PLUMBING CONTRACTOR. MECHANICAL MUST ROUTE CONDENSATE TO APPROPRIATE LOCATION OF DISPOSAL.
7. PROVIDE FLOAT ACTIVATED CONDENSATE PUMP TO PUMP CONDENSATE DOWN TO DRAIN WHERE REQUIRED.
8. PROVIDE RECTOR SEAL SSDOE CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.
9. 4-WAY CEILING CASSETTE.
10. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP.
11. PROVIDE MANUFACTURER'S WIRED REMOTE CONTROLLER KSACN0501AAA.
12. PROVIDE SELF CLEANING IONIZATION SYSTEM. REFER TO SCHEDULE FOR FURTHER INFORMATION.

FAN SCHEDULE

MARK	CFM	EXT. SP IN W.G.	DRIVE TYPE	MOTOR AMP/WATTS	MAX SONES	POWER/ PHASE	SERVES	BASIS OF DESIGN	NOTES
EF-1	200	0.35	DIRECT	83.0 W	2.5	115/1	W115 MEN	GREENHECK SP-A250	1:2:3:4
EF-2	200	0.30	DIRECT	47.0 W	2.0	115/1	W113 WOMEN	GREENHECK SP-A200	1:2:3:4
EF-3	150	0.30	DIRECT	128.0 W	3.0	115/1	E124 MEN	GREENHECK SP-B150	1:2:3:4
EF-4	150	0.30	DIRECT	128.0 W	3.0	115/1	E102 WOMEN	GREENHECK SP-B150	1:2:3:4
EF-5	70	0.25	DIRECT	20.0 W	1.3	115/1	E103 UNISEX	GREENHECK SP-B90	1:2:3:5
EF-6	70	0.25	DIRECT	20.0 W	1.3	115/1	E107 UNISEX	GREENHECK SP-B90	1:2:3:5

1. CEILING MOUNTED CENTRIFUGAL FAN. PROVIDE FACTORY SUPPLIED DISCONNECT SWITCH, BACKDRAFT DAMPER, VIBRATION ISOLATION, FAN SPEED CONTROLLER, GRILLE AND MOTOR WITH THERMAL OVERLOAD.
2. PROVIDE ROUND DUCT CONNECTION.
3. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
4. FAN SHALL BE CONTROLLED BY A 24/7 365 DAY TIME CLOCK LOCATED IN W116 RISER FOR EF-1,2 & A107 SUPPORT FOR EF-3,4. ELECTRICAL SHALL PROVIDE TIME CLOCK.
5. FAN SHALL BE INTERLOCKED WITH LIGHTS IN THE ROOM IT SERVES PROVIDE 10-MINUTE TIME DELAY TO TURN OFF FAN AFTER LIGHTS ARE OFF.

AIR DEVICE SCHEDULE

MARK	SERVICE	NECK SIZE	FACE SIZE	MATERIAL	TYPE	PATTERN	MOUNTING TYPE	LAYOUT BASIS	NOTES
S1	SUPPLY	SEE PLANS	24" X 24"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1:2:4
S2	SUPPLY	SEE PLANS	NECK+1-3/4"	STEEL	DOUBLE DEFLECTION REGISTER	2-WAY	DUCT MOUNT	TITUS 300RS	1:2
R1	RETURN	SEE PLANS	NECK+1-3/4"	ALUMINUM	FULL LOUVERED FACE	---	SURFACE	TITUS 350RL	3:5:6
R2	RETURN	SEE PLANS	24"X24"	ALUMINUM	EGGCRATE	---	SURFACE	TITUS 50F	1:7

1. PROVIDE STANDARD WHITE FINISH.
2. INSULATE BACK OF DEVICE.
3. GRILLE SHALL BE SAME COLOR AS WALL IT IS MOUNTED ON. COORDINATE WITH ARCHITECT.
4. BALANCE AIRFLOW TO QUANTITY SHOWN.
5. GRILL FINISH SHALL BE SAME COLOR AS WALL IT IS MOUNTED ON.
6. PROVIDE MANUFACTURER'S FACE VOLUME DAMPER WHERE NOTED ON DRAWINGS.
7. PROVIDE FULL SIZE LINED ELBOW ON TOP OF GRILL FOR RETURN AIR TRANSFER.

ALPHA BLDG SET 05-16-2025

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MECHANICAL SCHEDULES

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	JWK/KMP
CHECKED BY:	KMP
DESCRIPTION:	CD-REVIEW-DOCS
DATE:	12.02.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW
DATE:	12.02.24
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.24

REVISIONS:
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SHEET

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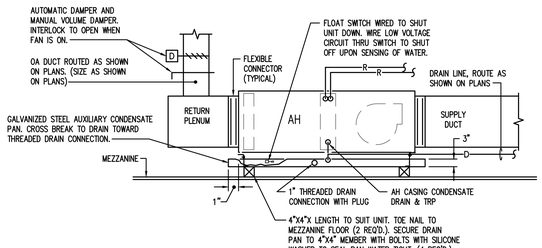

1 AHU ON MEZZANINE WITH AUXILIARY CONDENSATE PAN
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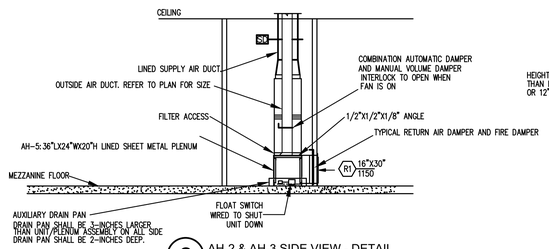

2 AH-2 & AH-3 SIDE VIEW - DETAIL
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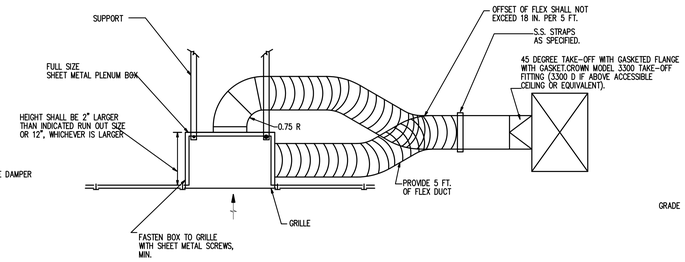

3 TYPICAL GRILLE WITH LINED PLENUM DETAIL
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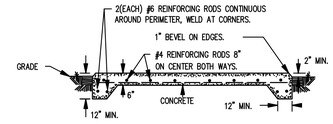

4 EXTERIOR BASE FOR GROUND MOUNTED PACKAGED UNITS - DETAIL
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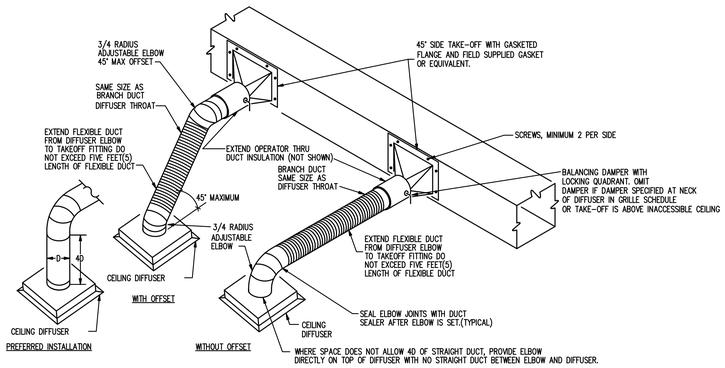

5 DIFFUSER RUN OUT DETAIL
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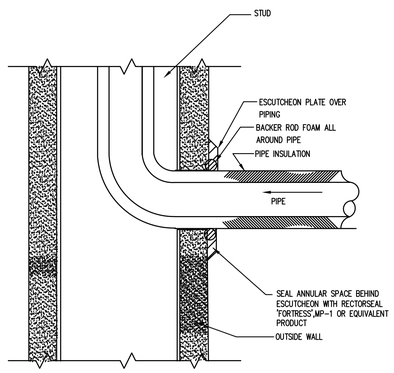

6 REFRIGERANT PIPE SLEEVE THROUGH WALL DETAIL
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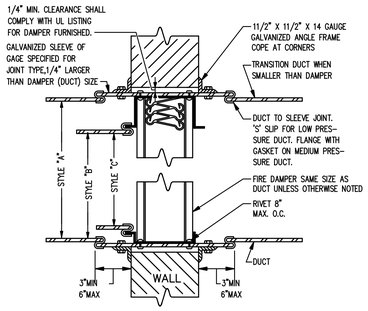
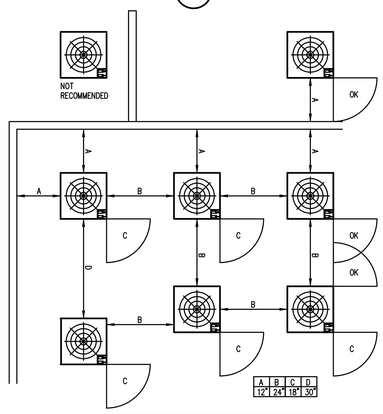
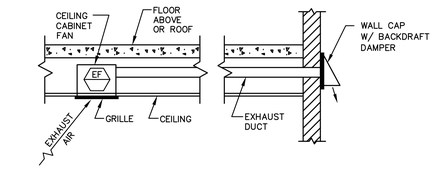


ALL FIRE DAMPERS ON THE PROJECT SHALL BE STYLE 'A' TYPE FIRE DAMPERS UNLESS OTHERWISE NOTED. DAMPERS LOCATED IN MEDIUM OR HIGH PRESSURE DUCTWORK SHALL BE STYLE 'C' FIRE DAMPERS. WHERE DAMPERS ARE INSTALLED IN DRYWALL PARTITION, STUD FRAMING SHALL BE PROVIDED ON ALL FOUR SIDES ON DAMPER.

7 FIRE DAMPER DETAIL
SCALE: N.T.S.



8 CONDENSER SPACING DETAIL
SCALE: N.T.S.



9 CEILING EXHAUST FAN W/SIDEWALL DISCHARGE-DETAIL
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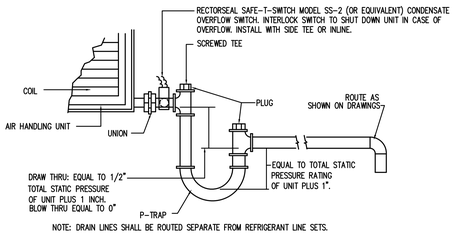
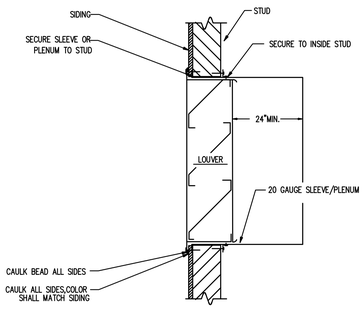
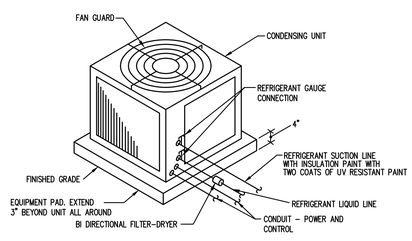


NOTE: DRAIN LINES SHALL BE ROUTED SEPARATE FROM REFRIGERANT LINE SETS.

10 CONDENSATE DRAIN DETAIL
SCALE: N.T.S.

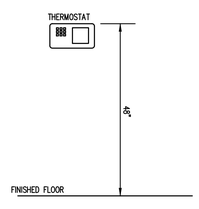


12 WALL MOUNTED LOUVER WITH PLENUM IN STUD WALL
SCALE: N.T.S.

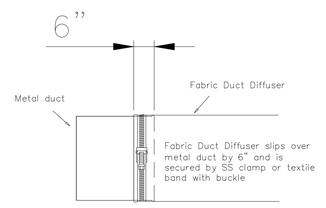


NOTE: 1) THIS DETAIL IS FOR HEAT PUMP UNIT 5 TONS AND UNDER
2) PROVIDE 4"X4"WELDED WIRE MESH REINFORCING AT CENTER LINE FOR THE CONCRETE PAD.
3) PAD MAY BE PREFABRICATED DIVERSITECH ULTRALITE EQUIPMENT PAD OR EQUIVALENT.

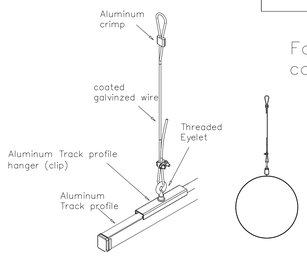
13 AIRCOOLED CONDENSING UNIT SLAB MOUNTED
SCALE: N.T.S.



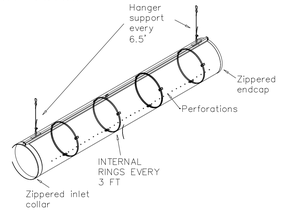
11 T-STAT DETAIL
SCALE: N.T.S.



Fabric Duct Inlet connection Detail



Fabric Duct Hanger Detail
Single Track Profile



Fabric duct Installation Detail
Single Track Profile

14 FABRIC DUCT - DETAIL
SCALE: N.T.S.

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MECHANICAL DETAILS

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02405
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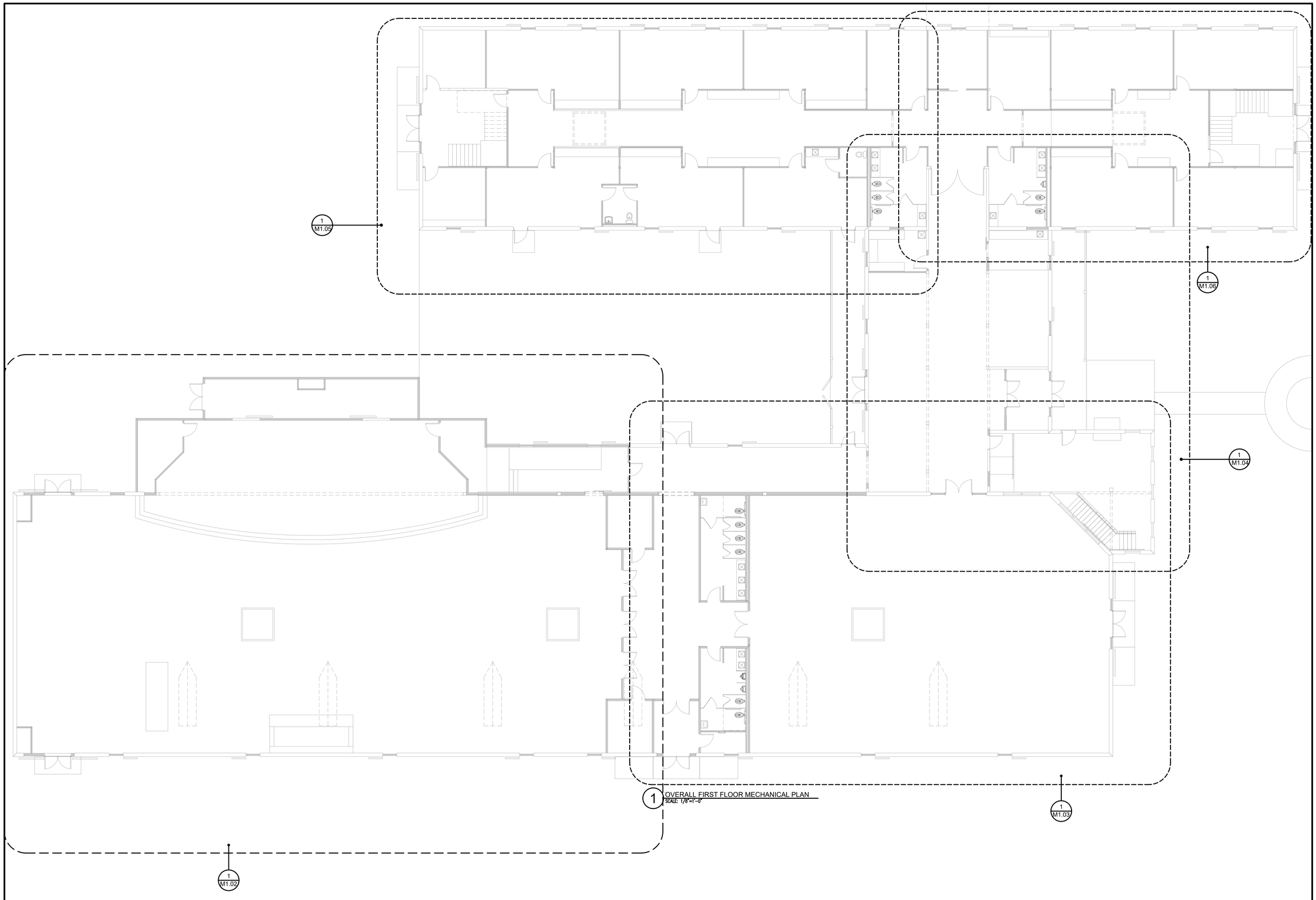

1 OVERALL FIRST FLOOR MECHANICAL PLAN
SCALE: 1/8"=1'-0"

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OVERALL FIRST FLOOR MECHANICAL PLAN-PHASE I

Retrofit & Renovations for Madison Methodist Church

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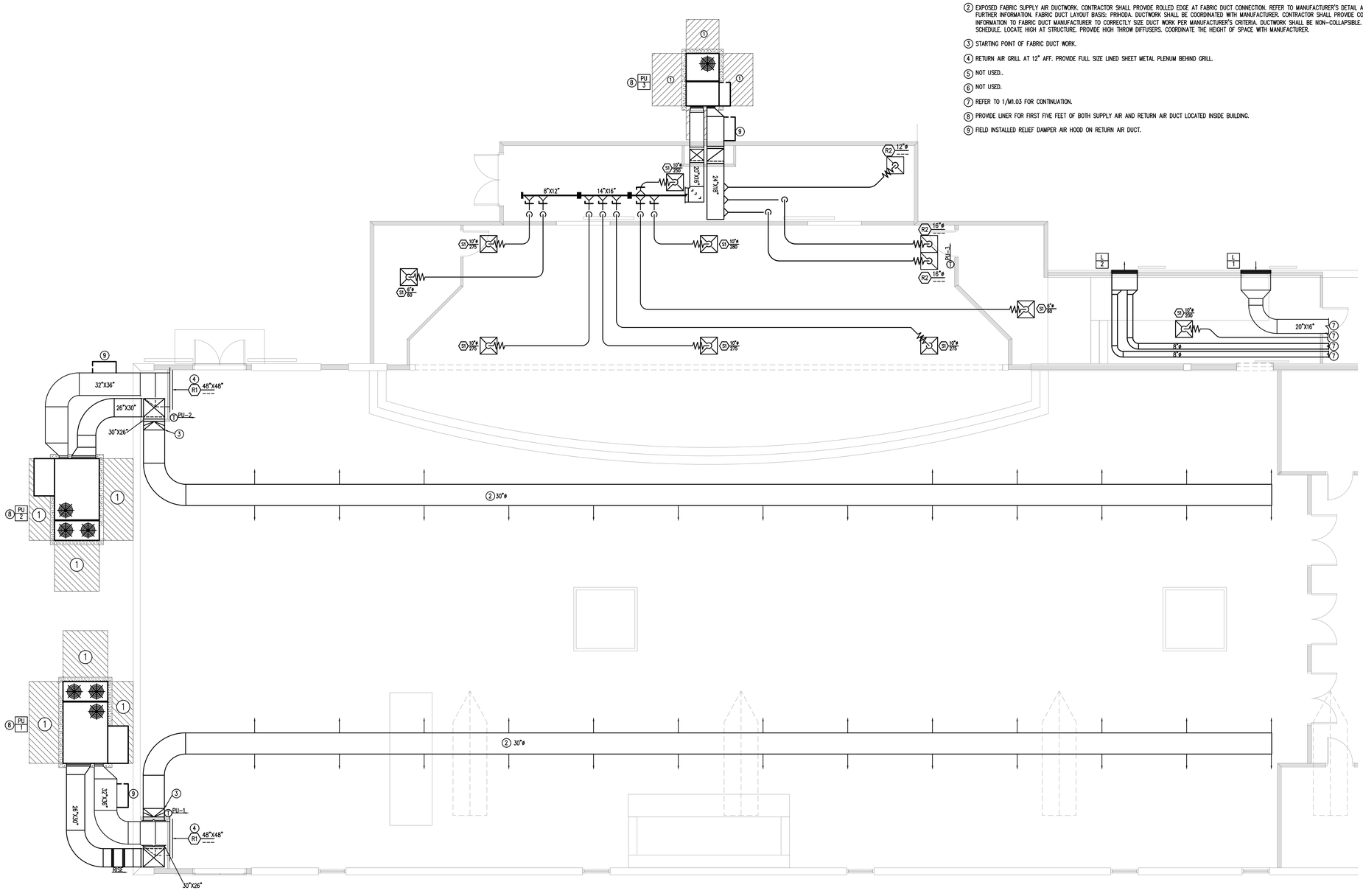
KEY NOTES(THIS SHEET ONLY):

1. UNIT ACCESS SPACE.
2. EXPOSED FABRIC SUPPLY AIR DUCTWORK. CONTRACTOR SHALL PROVIDE ROLLED EDGE AT FABRIC DUCT CONNECTION. REFER TO MANUFACTURER'S DETAIL AND SPECIFICATION FOR FURTHER INFORMATION. FABRIC DUCT LAYOUT BASIS: PRIHODA. DUCTWORK SHALL BE COORDINATED WITH MANUFACTURER. CONTRACTOR SHALL PROVIDE CORRECT AIRFLOW INFORMATION TO FABRIC DUCT MANUFACTURER TO CORRECTLY SIZE DUCT WORK PER MANUFACTURER'S CRITERIA. DUCTWORK SHALL BE NON-COLLAPSIBLE. REFER TO FABRIC DUCT SCHEDULE. LOCATE HIGH AT STRUCTURE. PROVIDE HIGH THROW DIFFUSERS. COORDINATE THE HEIGHT OF SPACE WITH MANUFACTURER.
3. STARTING POINT OF FABRIC DUCT WORK.
4. RETURN AIR GRILL AT 12" AFF. PROVIDE FULL SIZE LINED SHEET METAL PLENUM BEHIND GRILL.
5. NOT USED..
6. NOT USED.
7. REFER TO 1/M1.03 FOR CONTINUATION.
8. PROVIDE LINER FOR FIRST FIVE FEET OF BOTH SUPPLY AIR AND RETURN AIR DUCT LOCATED INSIDE BUILDING.
9. FIELD INSTALLED RELIEF DAMPER AIR HOOD ON RETURN AIR DUCT.



1 WORSHIP MECHANICAL PLAN - PHASE I
SCALE: 3/16"=1'-0"

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WORSHIP MECHANICAL PLAN-PHASE I

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway Madison, Georgia 30650

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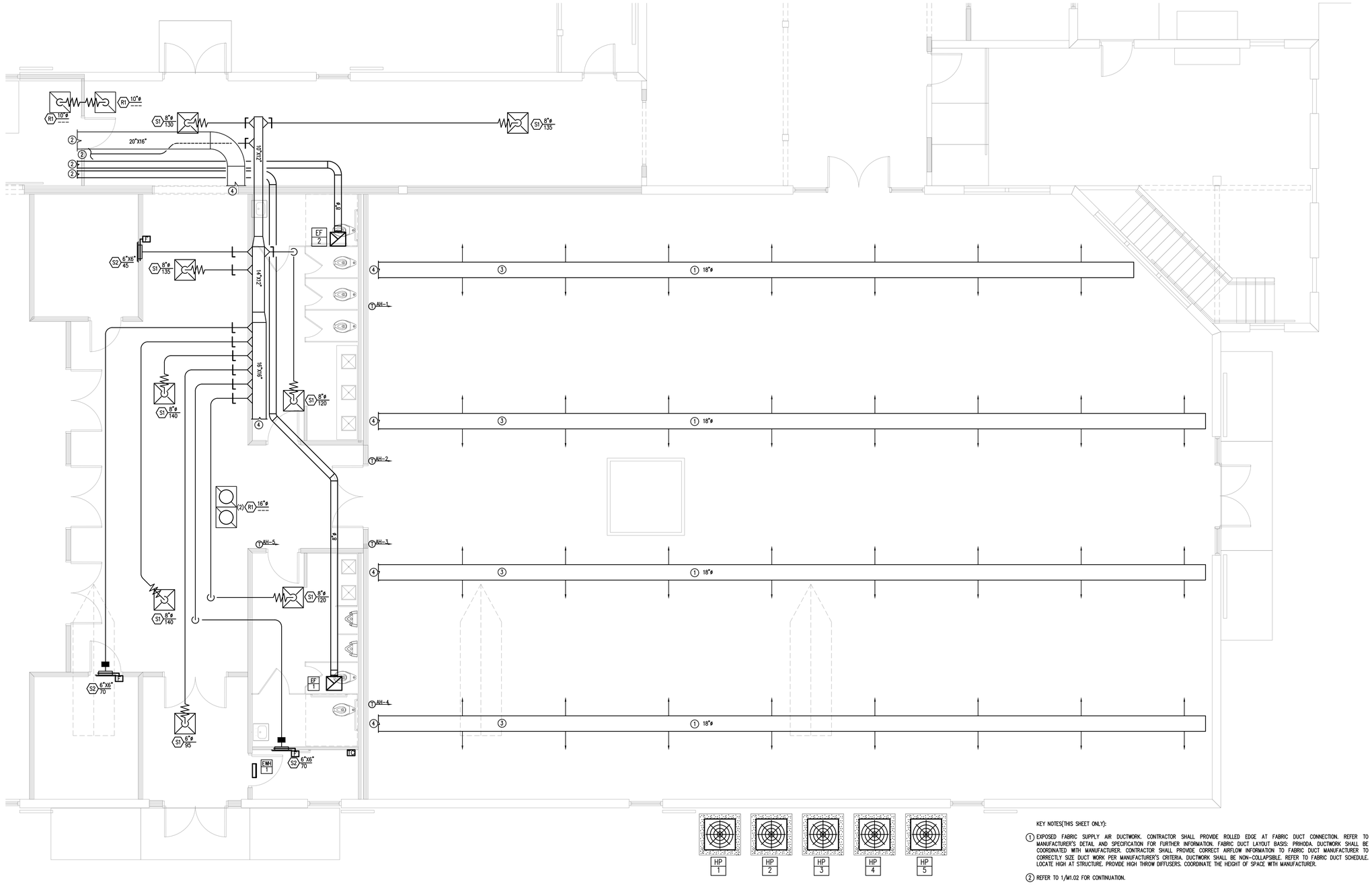

KEY NOTES(THIS SHEET ONLY):

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2. REFER TO 1/M1.02 FOR CONTINUATION.
3. DRUM LOUVERS DIFFUSERS ON FABRIC DUCT SHALL BE AVOIDED WHERE DUCT IS ABOVE GYPSUM CLOUD. FILED COORDINATE.
4. REFER TO 1/M2.01 FOR CONTINUATION.

1 FELLOWSHIP HALL MECHANICAL PLAN - PHASE I
SCALE: 1/4"=1'-0"

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FELLOWSHIP HALL MECHANICAL PLAN-PHASE I

Retrofit & Renovations for Madison Methodist Church

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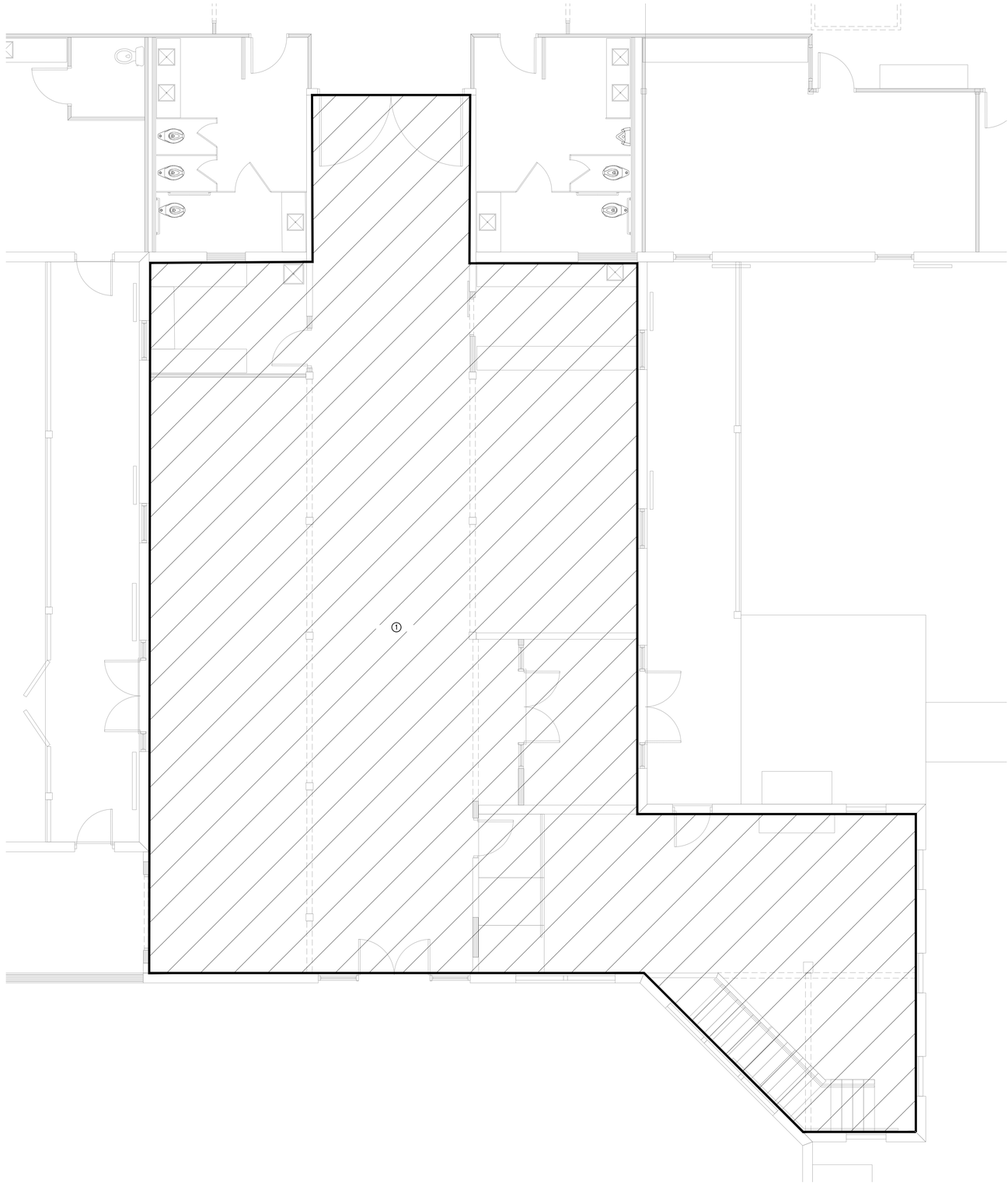
KEY NOTES(THIS SHEET ONLY):

1. EXISTING MECHANICAL SYSTEM SERVING THIS AREA SHALL REMAIN AS IS. CONTRACTOR SHALL PROVIDE NEW GRILLS WHERE REQUIRED. CONTRACTOR SHALL RELOCATE GRILLS AS REQUIRED. CONTRACTOR SHALL REMOVE EXHAUST FANS FOR DEMOLITION BATHROOMS WITH ALL ITS ACCESSORIES AND CONTROLS.



1 GATHERING MECHANICAL PLAN - PHASE I
SCALE: 1/4"=1'-0"

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GATHERING MECHANICAL PLAN- PHASE I

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway Madison, Georgia 30650

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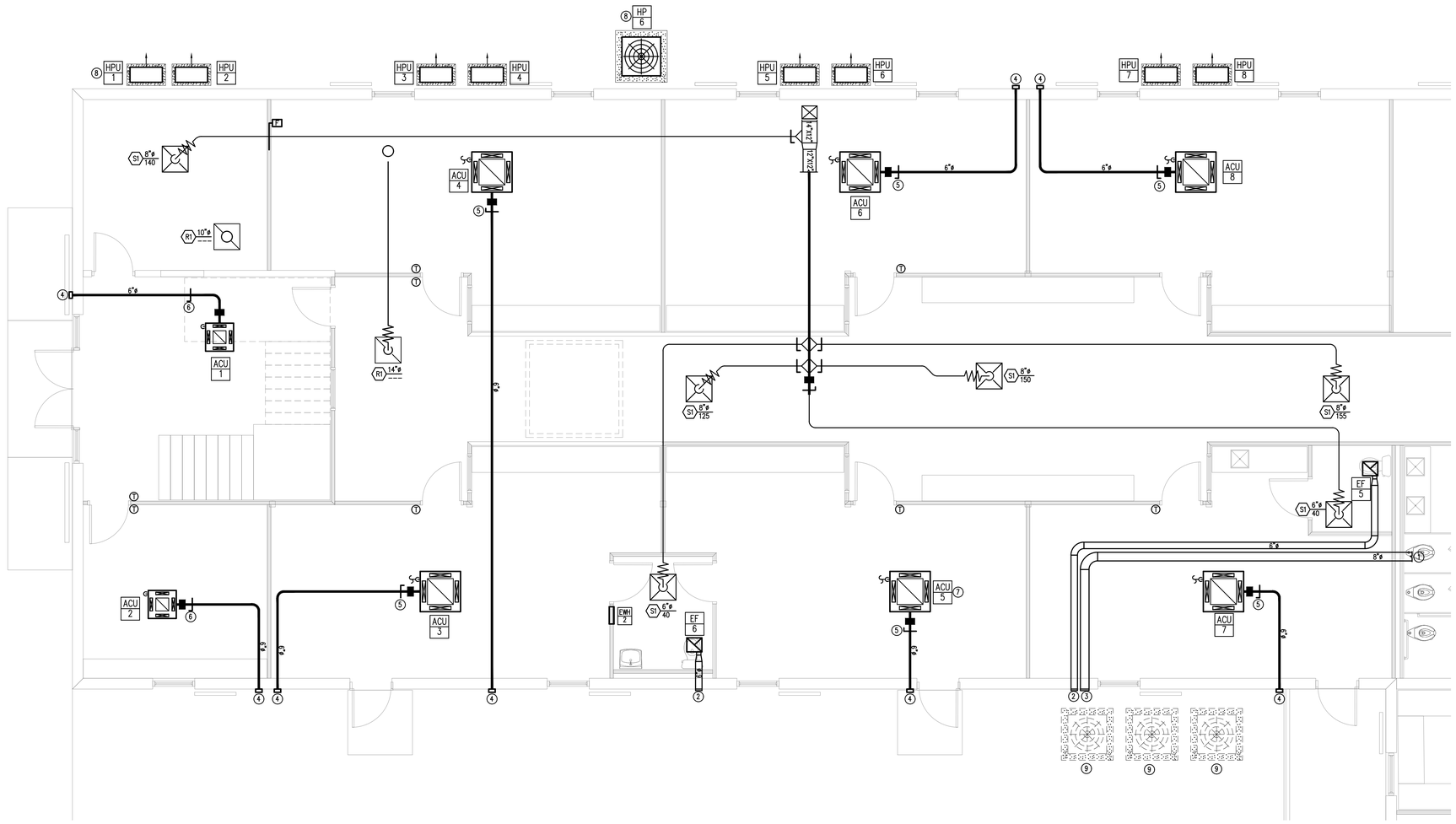

1 EDUCATION SOUTH MECHANICAL PLAN - PHASE I
SCALE: 1/4"=1'-0"

LINE LEGEND	
	DEMOLITION
	EXISTING TO REMAIN
	CONNECT TO EXISTING

KEY NOTES(THIS SHEET ONLY):

1. REFER TO 1/M1.06 FOR CONTINUATION.
2. 6"ø EXHAUST AIR WALL CAP. PAINT TO MATCH EXTERIOR WALL.
3. 8"ø EXHAUST AIR WALL CAP. PAINT TO MATCH EXTERIOR WALL.
4. 6"ø OUTSIDE AIR WALL CAP. PAINT TO MATCH EXTERIOR WALL.
5. SET MOTORIZED OUTSIDE AIR DAMPER AT 60 CFM. INTERLOCK DAMPER TO CLOSE WHEN EVAPORATOR FAN IS OFF.
6. SET MOTORIZED OUTSIDE AIR DAMPER AT 40 CFM. INTERLOCK DAMPER TO CLOSE WHEN EVAPORATOR FAN IS OFF.
7. ROUTE CONDENSATE DRAIN TO OUTSIDE TO 12-INCHES AFF. PROVIDE 45-DEGREE ELBOW AT DISCHARGE TO GUIDE CONDENSATE AWAY FROM EXTERIOR WALL. PROVIDE SPLASH BLOCK AT DISCHARGE. ROUTE CONDENSATE TOWARD CONDENSING UNITS. CONDENSATE PIPE SHALL BE HARD PVC. TYPICAL FOR ALL 4-WAY CEILING CASSETTE.
8. ROUTE REFRIGERANT PIPES TO RESPECTIVE AIR-HANDLING UNIT INSIDE BUILDING. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS. TYPICAL FOR ALL HEAT PUMP CONDENSING UNITS.
9. EXISTING HEAT PUMP UNIT SHALL BE REMAIN AS IS WITH ALL ITS ACCESSORIES AND CONTROLS. COORDINATE WITH GC AND ARCHITECTURAL FOR ADDITIONAL WORK ON THE UNITS. UNITS ARE SERVING EXISTING AREA.

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EDUCATION SOUTH MECHANICAL PLAN - PHASE I

Retrofit & Renovations for Madison Methodist Church

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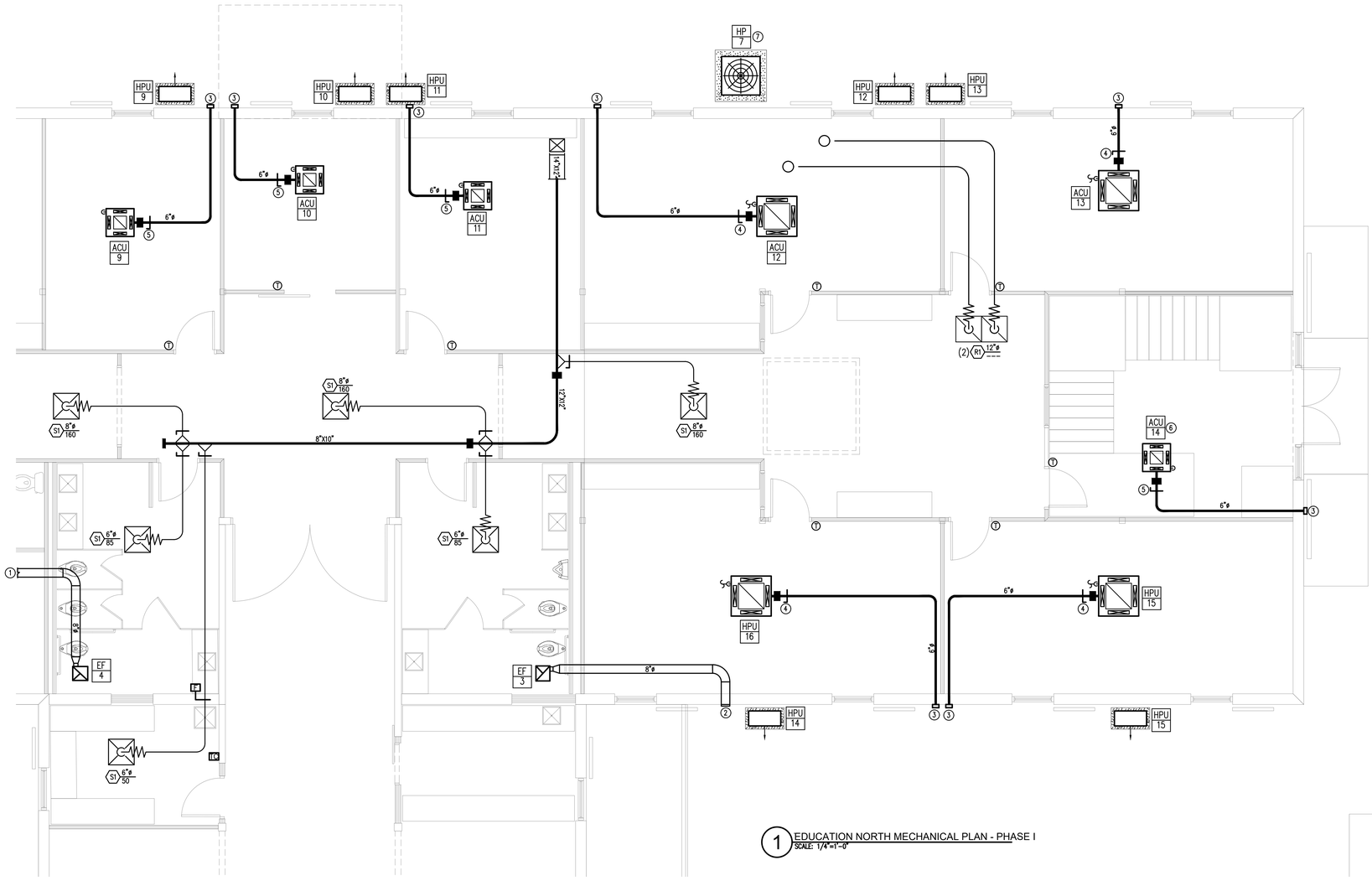

1 EDUCATION NORTH MECHANICAL PLAN - PHASE I
SCALE: 1/4"=1'-0"

KEY NOTES(THIS SHEET ONLY):

1. REFER TO 1/M1.05 FOR CONTINUATION.
2. 8"ø EXHAUST AIR WALL CAP. PAINT TO MATCH EXTERIOR WALL.
3. 6"ø OUTSIDE AIR WALL CAP. PAINT TO MATCH EXTERIOR WALL.
4. SET MOTORIZED OUTSIDE AIR DAMPER AT 60 CFM. INTERLOCK DAMPER TO CLOSE WHEN EVAPORATOR FAN IS OFF.
5. SET MOTORIZED OUTSIDE AIR DAMPER AT 40 CFM. INTERLOCK DAMPER TO CLOSE WHEN EVAPORATOR FAN IS OFF.
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7. ROUTE REFRIGERANT PIPES TO RESPECTIVE AIR-HANDLING UNIT INSIDE BUILDING. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS. TYPICAL FOR ALL HEAT PUMP CONDENSING UNITS.

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EDUCATION NORTH MECHANICAL PLAN - PHASE I

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1 OVERALL SECOND FLOOR MECHANICAL PLAN - PHASE I
SCALE: 1/8"=1'-0"

LINE LEGEND	
	DEMOLITION
	EXISTING TO REMAIN
	CONNECT TO EXISTING

KEY NOTES(THIS SHEET ONLY):

1. STARTING POINT OF FABRIC DUCT.
2. REFER TO 1/M1.03 FOR CONTINUATION.
3. PROVIDE MANUFACTURER'S FACE OPERATED MANUAL VOLUME DAMPER.
4. 20"X18" LINED RETURN AIR DUCT.
5. UNIT ACCESS SPACE.
6. ROUTE CONDENSATE TO FLOOR SINK BY PLUMBING LOCATED AT RISER ROOM. TYPICAL FOR ALL AIR-HANDLING UNITS LOCATED AT MEZZANINE LEVEL. CONDENSATE PIPE SHALL BE HARD PVC PIPE.
7. REFER TO 1/M1.03 FOR CONTINUATION.
8. 16"X16" SUPPLY AIR DUCT.
9. 14"X16" LINED RETURN AIR DUCT.
10. ROUTE CONDENSATE DRAIN TO OUTSIDE TO 12-INCHES AFF. PROVIDE 45-DEGREE ELBOW AT DISCHARGE TO GUIDE CONDENSATE AWAY FROM EXTERIOR WALL. PROVIDE SPLASH BLOCK AT DISCHARGE. ROUTE CONDENSATE TOWARD CONDENSING UNITS. CONDENSATE PIPE SHALL BE HARD PVC.
11. TYPICAL RETURN AIR MANUAL VOLUME DAMPER.
12. 8"ø OUTSIDE AIR WALL CAP. PAINT TO MATCH EXTERIOR WALL.
13. EXISTING FAN COIL UNIT SHALL REMAIN AS IS WITH ALL ITS DUCTWORK, ACCESSORIES AND CONTROLS. CONTRACTOR SHALL PROVIDE WORK AS NECESSARY TO RELOCATE AN ADD GRILLS PER DEMOLITION WORK.

ALPHA BLDG SET 05-16-2025

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OVERALL SECOND FLOOR MECHANICAL PLAN - PHASE I

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GENERAL NOTES:

A. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF THE BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4IN. IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE. CAREFULLY COORDINATE ROUGH-IN WITH BLOCK MASONS AND GROUT-IN CELL CONTAINING OUTLET BOX.

B. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS. MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.

C. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.

D. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

SECTION E01: FIRE ALARM SUBCONTRACTOR SUBMITTAL REQUIREMENTS TO AUTHORITY HAVING JURISDICTION:

IN ACCORDANCE WITH CHAP 7, NFPA 72 THE FOLLOWING LIST REPRESENTS THE MINIMUM DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR ALL FIRE ALARM SYSTEMS:

1. THE PRINTED NAME, SIGNATURE AND COPY OF CURRENT GEORGIA LICENSE OF THE LOW VOLTAGE CONTRACTOR WHO IS SUBMITTING THE FIRE ALARM PLANS FOR REVIEW AND WHO WILL BE RESPONSIBLE FOR INSTALLATION.

2. WRITTEN NARRATIVE PROVIDING INTENT AND SYSTEM DESCRIPTION.

3. A FIRE ALARM RISER DIAGRAM.

4. A FLOOR PLAN LAYOUT WITH ROOM NAMES, DOOR LOCATIONS, FIXTURES (DRAWN TO SCALE) SHOWING LOCATION OF ALL DEVICES AND CONTROL EQUIPMENT. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS IS THE MINIMUM REQUIRED. PROVIDE ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE AND LOCAL CODES.

5. THE FIRE ALARM SYSTEM WIRING LAYOUT DESIGN WHICH INCLUDES THE GAUGE(S) OF WIRING INSTALLED.

6. THE SEQUENCE OF OPERATION IN EITHER INPUT/OUTPUT MATRIX OR NARRATIVE FORM.

7. EQUIPMENT TECHNICAL DATA SHEETS FOR ALL COMPONENTS SPECIFIED IN THE FIRE ALARM SYSTEM DESIGN.

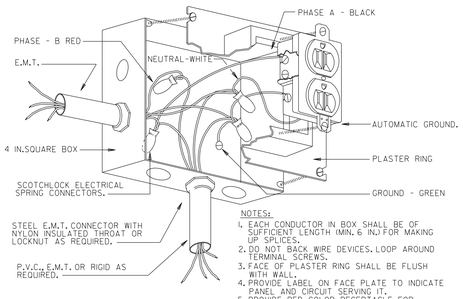
8. MANUFACTURERS PUBLISHED INSTRUCTIONS, INCLUDING OPERATION AND MAINTENANCE INSTRUCTIONS.

9. BATTERY CALCULATIONS.

10. A SET OF NAC VOLTAGE DROP/LOAD CALCULATIONS.

11. SPEAKER WATTAGES AND DECIBEL RATINGS FOR BOTH HORN ALARM AND VOICE EVACUATION SYSTEM COMPONENTS.

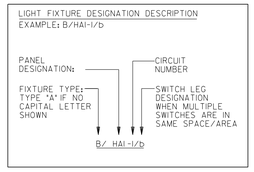
12. THE CANDELA RATING SHOWN FOR DRAWINGS FOR EACH STROBE/VISUAL DEVICE AND EACH ILLUMINATED EMERGENCY EXIT SIGN FIRE ALARM SYSTEM MUST COMPLY WITH THE GEORGIA ACCESSIBILITY CODE (120-3-20), LIFE SAFETY CODE (NFPA 101) AND THE NATIONAL FIRE ALARM CODE (NFPA 72).



NOTES:
1. EACH CONDUCTOR IN BOX SHALL BE OF SUFFICIENT LENGTH (MIN. 6 IN.) FOR MAKING UP SPLICES.
2. DO NOT BACK WIRE DEVICES. LOOP AROUND TERMINAL SCREWS.
3. FACE OF PLASTER RING SHALL BE FLUSH WITH WALL.
4. PROVIDE LABEL ON FACE PLATE TO INDICATE PANEL AND CIRCUIT SERVING IT.
5. PROVIDE RED COLOR RECEPTACLE FOR EMERGENCY.

1 E0.1 RECEPTACLE CONNECTION DETAIL

NOT TO SCALE



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A1	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. FIELD SELECTABLE LUMEN AND COLOR TEMP. PROVIDE 10 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 6000 LUMENS, 49 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	COLUMBIA "CLT" SER., LITHONIA "STAK" SER., METALUX "ACHIEVA" SER.
A2	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. FIELD SELECTABLE LUMEN AND COLOR TEMP. PROVIDE 10 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 5000 LUMENS, 40 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	COLUMBIA "CLT" SER., LITHONIA "STAK" SER., METALUX "ACHIEVA" SER.
A3	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. FIELD SELECTABLE LUMEN AND COLOR TEMP. PROVIDE 10 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 4000 LUMENS, 32 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	COLUMBIA "CLT" SER., LITHONIA "STAK" SER., METALUX "ACHIEVA" SER.
B1	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. FIELD SELECTABLE LUMEN AND COLOR TEMP. PROVIDE 10 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 5000 LUMENS, 41 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	COLUMBIA "CLT" SER., LITHONIA "STAK" SER., METALUX "ACHIEVA" SER.
B2	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. FIELD SELECTABLE LUMEN AND COLOR TEMP. PROVIDE 10 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 4000 LUMENS, 35 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	COLUMBIA "CLT" SER., LITHONIA "STAK" SER., METALUX "ACHIEVA" SER.
B3	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. FIELD SELECTABLE LUMEN AND COLOR TEMP. PROVIDE 10 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 3000 LUMENS, 27 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	COLUMBIA "CLT" SER., LITHONIA "STAK" SER., METALUX "ACHIEVA" SER.
C1	NOMINAL 7 IN. WIDE, 48 IN. LONG, CONTEMPORARY STYLED SURFACE MOUNT WRAP FIXTURE. LOW PROFILE DESIGN, WITH ROUNDED RIBBED POLYCARBONATE LENS; DAMP LOCATION LISTED, STANDARD 0-10 DIMMING. PROVIDE 10 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 6000 LUMENS, 49 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	METALUX "NWS" SER., LITHONIA "BLWP" SER., COLUMBIA "RLW" SER.
C2	NOMINAL 7 IN. WIDE, 48 IN. LONG, CONTEMPORARY STYLED SURFACE MOUNT WRAP FIXTURE. LOW PROFILE DESIGN, WITH ROUNDED RIBBED POLYCARBONATE LENS; DAMP LOCATION LISTED, STANDARD 0-10 DIMMING. PROVIDE 10 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 4000 LUMENS, 35 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	METALUX "NWS" SER., LITHONIA "BLWP" SER., COLUMBIA "RLW" SER.
D	COMMERCIAL GRADE DOWNLIGHT, RECESSED SELF FLANGED, 4 IN. ROUND APERTURE, SPECULAR REFLECTOR FINISH; ACCESS FROM BELOW OR ABOVE CEILING; STANDARD 0-10 DIMMING. PROVIDE 10 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 750 LUMENS, 9 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	HALO COMMERCIAL "HC4" SER., LITHONIA "LDN4" SER., PRESCOLITE "LFR-4RD" SER.
E	4 FT. LENSED LED STRIPLIGHT, WITH ROUND FROSTED DIFFUSE LENS, SURFACE OR PENDANT MOUNTED, STANDARD 0-10 DIMMING. PROVIDE 10 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 5000 LUMENS, 42 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	METALUX "SNX" SER., LITHONIA "CLX" SER., COLUMBIA "MPS" SER.
F	ROUND LED PENDANT, NOMINAL 30 IN. DIAMETER BOWL, ALUMINUM CONSTRUCTION, SATIN WHITE ACRYLIC LENS, CABLE SUSPENDED; STANDARD 0-10 DIMMING. COORDINATE FINISH WITH OWNER/ARCHITECT. SUSPEND FIXTURE SUCH THAT BOTTOM OF BOWL IS APPROXIMATELY 15'-0" A.F.F. LAMPS: LED, 16400 LUMENS, 130 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	G LIGHTING "CUMBERLAND" SER., OR EQUAL BY SPI LIGHTING, VISA LIGHTING
G	NOMINAL 6" ROUND SURFACE MOUNTED PANEL; SLEEK ULTRA LOW PROFILE; DIFFUSING LENS PROVIDING LIGHT UNIFORMITY. LAMPS: LED, 1000 LUMENS MINIMUM, 14 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	HALO "SMD6" SER., JUNO "JSF" SER., PRESCOLITE "LBSE" SER.
H	ROUND LED PENDANT, NOMINAL 30 IN. DIAMETER BOWL, ALUMINUM CONSTRUCTION, SATIN WHITE ACRYLIC LENS, CABLE SUSPENDED; STANDARD 0-10 DIMMING. COORDINATE FINISH WITH OWNER/ARCHITECT. PROVIDE STANDARD LENGTH STEM. LAMPS: LED, 16400 LUMENS, 130 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	G LIGHTING "CUMBERLAND" SER., OR EQUAL BY SPI LIGHTING, VISA LIGHTING
J	4 FT. WALL MOUNTED LED, STEEL CONSTRUCTION, SATIN ACRYLIC LENS, DIRECT/INDIRECT OPTICS; STANDARD 0-10 DIMMING. COORDINATE FINISH WITH OWNER/ARCHITECT. PROVIDE 7 WATT BATTERY PACK WHERE SHOWN ON PLANS. LAMPS: LED, 2400 LUMENS DIRECT, 2400 LUMENS INDIRECT, 40 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	DAY-O-LITE "MEDL-PL-DI" SER., FAIL-SAFE "MWL" SER., LIFESHIELD "EVEXIA" SER.
K	COMMERCIAL GRADE DOWNLIGHT, RECESSED SELF FLANGED, 6 IN. ROUND APERTURE, SPECULAR REFLECTOR FINISH; ACCESS FROM BELOW OR ABOVE CEILING; STANDARD 0-10 DIMMING. LAMPS: LED, 1000 LUMENS, 11 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	HALO COMMERCIAL "HC6" SER., LITHONIA "LDN6" SER., PRESCOLITE "LFR-6RD" SER.
L	6 IN. ROUND COMMERCIAL GRADE CYLINDER, PENDANT MOUNTED, WIDE DISTRIBUTION, 0-10V DIMMING STANDARD, PROVIDE MOUNTED BRACKET OR CANOPY AS REQUIRED. COORDINATE COLOR AND STEM LENGTH WITH ARCHITECT. LAMPS: LED, 2500 LUMENS, 29 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	HALO COMMERCIAL "HC06" SER., LITHONIA "LDN6CYL" SER., RAYON "RFL-6" SER.
OA	NOMINAL 6" ROUND SURFACE MOUNTED PANEL; SLEEK ULTRA LOW PROFILE; DIFFUSING LENS PROVIDING LIGHT UNIFORMITY; WET LISTED COVERED CEILINGS. LAMPS: LED, 1000 LUMENS MINIMUM, 14 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	HALO "SMD6" SER., JUNO "JSF" SER., PRESCOLITE "LBSE" SER.
OB	ARCHITECTURAL SCONCE TO BE SELECTED BY OWNER/ARCHITECT. PROVIDE $950 ALLOWANCE FOR LIGHTING FIXTURE ONLY. COST OF INSTALLATION MUST ALSO BE INCLUDED SEPARATELY FROM ALLOWANCE. COORDINATE MOUNTING HEIGHT WITH OWNER/ARCHITECT. LAMPS: LED, 60 WATTS MAX DRIVER: UNV. VOLT	TBD
OC	BUILDING MOUNTED WALL PACK WITH DIE-CAST ALUMINUM HOUSING AND GLASS LENS; UL LISTED FOR WET LOCATION. FIELD SELECTABLE LUMEN AND COLOR TEMP. COORDINATE FINISH WITH ARCHITECT. PROVIDE 7 WATT BATTERY PACK WHERE SHOWN ON PLANS. WALL MOUNT FIXTURE AT 10'-0" A.F.F. UNLESS NOTED OTHERWISE ON THE PLANS. LAMPS: LED, 2300 LUMENS, 16 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "TWR1 LED" SER., LUMARK AP "WPM" SER., EXO "WGH LED" SER.
OD	BUILDING MOUNTED WALL PACK WITH DIE-CAST ALUMINUM HOUSING AND GLASS LENS; UL LISTED FOR WET LOCATION. FIELD SELECTABLE LUMEN AND COLOR TEMP. COORDINATE FINISH WITH ARCHITECT. PROVIDE 7 WATT BATTERY PACK WHERE SHOWN ON PLANS. WALL MOUNT FIXTURE AT 12'-0" A.F.F. UNLESS NOTED OTHERWISE ON THE PLANS. LAMPS: LED, 5300 LUMENS, 36 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "TWR1 LED" SER., LUMARK AP "WPM" SER., EXO "WGH LED" SER.
	LED EDGE-LIT, SATIN ALUMINUM HOUSING, HIGH-GRADE ACRYLIC PANEL, UNIVERSAL MOUNTING STANDARD, SINGLE OR DOUBLE FACE AS SHOWN ON PLANS. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED, 3 WATTS BALLAST: UNV. VOLT	LIGHTALARMS "GUENRM" SER., OR EQUAL BY COMPASS, SURELITES
	LED 2 HEAD EMERGENCY UNIT, ROUND HEAD, LOW PROFILE CONTEMPORARY DESIGN WITH THERMOPLASTIC HOUSING, IMPACT RESISTANT, DAMP LOCATION LISTED. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED (2), 3 WATTS BALLAST: UNV. VOLT	COMPASS "CU2" SER., LITHONIA "ELM2L" SER., LIGHT ALARMS "LCA" SER., SURELITES "SEL17" SER., EVENLITE "TCL" SER.
	LED 2 HEAD EMERGENCY UNIT, HIGH OUTPUT, ROUND HEAD, LOW PROFILE CONTEMPORARY DESIGN WITH THERMOPLASTIC HOUSING, IMPACT RESISTANT, DAMP LOCATION LISTED. (PROVIDE 90 MIN. BACK-UP BATTERY). "c" WHERE SHOWN INDICATES CEILING MOUNTED. LAMPS: LED (2), 7 WATTS BALLAST: UNV. VOLT	LITHONIA "ELM4L" SER., OR EQUAL BY COMPASS, LIGHT ALARMS, SURELITES, EVENLITE
	EXTERIOR ARCHITECTURAL STYLED LOW PROFILE LED EMERGENCY LIGHTING UNIT, SELF DIAGNOSTICS STANDARD. WET LOCATION WITH FULLY GASKETED, PRISMATIC POLYCARB REFRACTOR. BRONZE / BLACK FINISH SELECTED BY ARCHITECT. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED, 3 WATTS BALLAST: UNV. VOLT	LITHONIA "AFO" SER., MULE "MAKO" SER., SPITZER "EWS" SER., COMPASS "CUW" SER., ISOLITE "ELED" SER.

NOTES:
1. CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE FIXTURE DIMENSION SIZE TO ENSURE A PROPER FIT IN ALL CEILING TYPES PRIOR TO ORDERING.
2. ALL LUMENS LISTED ARE DELIVERED LUMENS. ALL EQUALS TO SPECIFIED FIXTURES SHALL NOT BE ANY LOWER THAN 5% OF SPECIFIED LUMENS, WATTAGE SHALL NOT BE HIGHER THAN 15% OF SPECIFIED WATTAGE.
3. LISTING OF MANUFACTURERS DOES NOT EQUAL AUTOMATIC APPROVAL. ALL CHARACTERISTICS NOTED IN DESCRIPTION SECTION MUST BE MET IN ORDER TO BE APPROVED. WHERE VENDOR/REP. DOES NOT HAVE ONE MANUFACTURER LISTED, PRIOR APPROVAL IS REQUIRED TO BE SUBMITTED TO ENGINEER TEN (10) DAYS PRIOR TO BID.

ELECTRICAL LEGEND

LIGHTING AND POWER

- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL. HASH MARKS INDICATE NUMBER OF CONDUCTORS. (3 WIRE UNLESS SHOWN)
- CONDUIT RUN CONCEALED BELOW FLOOR SLAB, OR UNDERGROUND.
- A-2,4 — HOMERUN TO PANELBOARD. LETTER OR LETTERS INDICATE PANELBOARD. NUMBERS INDICATES CIRCUIT NUMBERS.
- LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE.
- LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE. PROVIDE WITH 1100 LUMEN, 90 MINUTE BATTERY PACK.
- UNSWITCHED NIGHT LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE. PROVIDE WITH 1100 LUMEN, 90 MINUTE BATTERY PACK.
- LIGHTING FIXTURE, WALL BRACKET MOUNTED. (MOUNTING HEIGHT AS NOTED ON DRAWINGS OR AS SHOWN ON ARCHITECTURAL ELEVATIONS.)
- LIGHTING FIXTURE, WALL BRACKET MOUNTED, PROVIDE WITH 1100 LUMEN, 90 MINUTE BATTERY PACK. (MOUNTING HEIGHT AS NOTED ON DRAWINGS OR AS SHOWN ON ARCHITECTURAL ELEVATIONS.)
- JUNCTION BOX LOCATED ABOVE CEILING.
- J — JUNCTION BOX, FLUSH WALL MOUNTED AT 18 IN. TO CENTERLINE UNLESS OTHERWISE NOTED.
- CEILING MOUNTED OUTLET WITH ONE TWIST LOCK SIMPLEX OUTLET (NEMA L5-20). SUPPORT BOX BY 3/8 IN. THREADED ROD TO STRUCTURE. PROVIDE KELLUM STRAIN RELIEF GRIP AT BOX AND AT SUSPENDED OUTLET.
- DUPLEX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
- DUPLEX CONVENIENCE OUTLET, 8 IN. ABOVE COUNTER TOP OR 42 IN. MOUNTING HEIGHT.
- QUADRUPLEX CONVENIENCE OUTLET, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
- WP — QUADRUPLEX CONVENIENCE OUTLET, GFI TYPE, 18 IN. ABOVE FLOOR UNLESS OTHERWISE NOTED.
- WP — DUPLEX CONVENIENCE OUTLET, GFI TYPE, 18 IN. MOUNTING HEIGHT. "WP" WHERE SHOWN INDICATES WEATHERPROOF. PROVIDE METAL IN-USE WEATHERPROOF COVERPLATE.
- DUPLEX CONVENIENCE OUTLET, GFI TYPE, MOUNTED 8 INCHES ABOVE COUNTER OR AT 42 IN. ABOVE FLOOR.
- SPECIAL RECEPTACLE TO SUIT EQUIPMENT BEING FURNISHED.
- FLUSH FLOOR BOX WITH DUPLEX CONVENIENCE OUTLET, AND COMBINATION TELEPHONE AND DATA OUTLET. PROVIDE WALKER 880 OMNIBOX SERIES TWO GANG CAST IRON OR PLASTIC FLOOR BOX WITH BRASS FLANGE AND COVERPLATE.
- $ — SINGLE POLE TOGGLE SWITCH, 42 IN. ABOVE FLOOR.
- $3, $4 — THREE OR FOUR WAY SWITCH AS INDICATED, 42 IN. MOUNTING HEIGHT.
- $M — MOTOR RATED TOGGLE SWITCH.
- D — 0-10 VOLT SLIDE TYPE DIMMER, 42 IN. ABOVE FLOOR. (MANUAL ON TO 50%, DIM 1- 100%, AUTO OFF PER IECC 2015. MUST BE COMPATIBLE WITH VAC SENSOR AND POWER PACK.)
- D3 — THREE WAY, 0-10 VOLT SLIDE TYPE DIMMER, 42 IN. ABOVE FLOOR. (MANUAL ON TO 50%, DIM 1- 100%, AUTO OFF PER IECC 2015. MUST BE COMPATIBLE WITH VAC SENSOR AND POWER PACK.)
- PANELBOARD, SEE SCHEDULE.
- DISCONNECT SWITCH.
- M — MOTOR.
- PE — PHOTO ELECTRIC CELL.
- TC — 365 DAY DIGITAL PROGRAMMABLE TYPE ELECTRONIC CONTROL TIME CLOCK.
- K — KNOX REMOTE POWER BOX.

TELEPHONE/DATA/CATV SYSTEMS

- COMBINATION COMPUTER AND TELEPHONE OUTLET, 18 IN. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. (2 DATA, 1 TEL)
- COMBINATION COMPUTER AND TELEPHONE OUTLET, FLUSH WALL MOUNTED AT 46 IN. TO CENTER LINE OF OUTLET. (2 DATA, 1 TEL)
- COMPUTER OUTLET, FLUSH WALL MOUNTED AT 46 IN. TO CENTER LINE OF OUTLET. (2 DATA)
- AP — WIRELESS ACCESS POINT. (2 DATA)
- TELEVISION OUTLET, 18 IN. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
- TB — PLYWOOD BACKBOARD, "TB" INDICATES TELEPHONE BOARD.

LIGHTING CONTROL SENSORS

- V — COMBINATION 360 DEGREE, ULTRASONIC AND PASSIVE INFRARED SENSOR (WATT STOPPER "DT-300", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH). ("V" INDICATES VACANCY SENSOR, UNIT MUST COMPLY WITH IECC 2015 REQUIREMENTS AND BE COMPATIBLE WITH DIMMER)
- WALL MOUNTED SENSOR SWITCH, 42 IN. MOUNTING HEIGHT (WATTSTOPPER DSW-301, GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
- ULTRASONIC OCCUPANCY SENSOR (WATT STOPPER "WT-2250", GREENGATE, NOVITAS, HUBBELL, LEVITON, SENSOR SWITCH).
- EN — EMERGENCY OVERRIDE RELAY FOR NORMALLY SWITCHED OPERATION.

FIRE ALARM SYSTEM (FULL VOICE EVAC SYSTEM)

- FACP — FIRE ALARM CONTROL PANEL, SURFACE MOUNTED.
- FAA — FIRE ALARM ANNUNCIATOR, FLUSH MOUNTED.
- MIC — REMOTE VOICE EVACUATION MICROPHONE, WALL MOUNTED IN FLUSH BOX, 42 IN. A.F.F.
- WP — SPEAKER AND FLASHING LIGHT, 80 IN. ABOVE FLOOR TO THE BOTTOM OF THE LENS. ("WP" INDICATES WEATHERPROOF.)
- STROBE LIGHT, 80 IN. ABOVE FLOOR TO THE BOTTOM OF THE LENS.
- F — FIRE ALARM PULL STATION. WALL MOUNTED 42 IN. ABOVE FLOOR.
- D — FIRE ALARM DUCT SMOKE DETECTOR LOCATED IN HVAC SUPPLY AIR DUCT. PROVIDE IN UNITS 2000 CFM AND GREATER. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
- P — SMOKE DETECTOR, PHOTOELECTRIC TYPE.
- H — HEAT DETECTOR, 135 DEGREE OPERATION.
- CO — CARBON MONOXIDE DETECTOR, CEILING MOUNTED.
- VS — TAMPER SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.
- WF — FLOW SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.

SOUND SYSTEM (RACEWAY, BOXES, AND PULL STRING ONLY)

- S — SPEAKER, CEILING RECESSED. PROVIDE 3/4 IN. C. FROM SPEAKER TO SOUND CONSOLE. COORDINATE EXACT REQUIREMENTS WITH A/V CONSULTANT.
- WP — SPEAKER, FLUSH WALL MOUNTED. PROVIDE 3/4 IN. C. FROM SPEAKER TO SOUND CONSOLE. COORDINATE EXACT REQUIREMENTS WITH A/V CONSULTANT. "WP" WHERE SHOWN INDICATES WEATHERPROOF.
- SR — SOUND RACK/CONSOLE.
- V — VOLUME CONTROL, MOUNTED 42 IN. ABOVE FLOOR. PROVIDE 3/4 IN. C. TO SOUND RACK LOCATION.
- MP — MICROPHONE OUTLET. PROVIDE 3/4 IN. C. TO SOUND RACK LOCATION.

SECURITY SYSTEM (RACEWAY, BOXES, AND PULL STRING ONLY)

- ACCESS CONTROL PROXIMITY READER. PROVIDE JUNCTION BOX AND 3/4 IN. C. WITH PULL STRING TO SECURITY EQUIPMENT LOCATION. COORDINATE WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN. (RACEWAY AND BOXES ONLY)
- DC — DOOR CONTACT POSITION SENSOR LOCATION. PROVIDE SINGLE GANG BOX AT DOOR FRAME ON SECURE SIDE OF DOOR. COORDINATE EXACT LOCATION WITH ACCESS CONTROL SYSTEM VENDOR. PROVIDE 3/4 IN. C. WITH PULL STRING TO STUB-OUT ABOVE CEILING.
- WALL MOUNTED CCTV SECURITY CAMERA. PROVIDE JUNCTION BOX AND 1 IN. C. WITH PULL STRING TO SECURITY EQUIPMENT LOCATION. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL.
- INTRUSION DETECTION - MOTION SENSORS, DIRECTIONAL AS SHOWN. PROVIDE SENSORS OF TYPE AND DISTRIBUTION FOR FULL COVERAGE OF AREAS SHOWN.

NOTES:
1. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR DEVICE.
2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

ALPHA BLDG SET 05-16-2025

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ARCHITECT — STAMP INVALID UNLESS SIGNED

CONSULTANT — STAMP INVALID UNLESS SIGNED

ELECTRICAL DESIGN
EDC
CONSULTANTS, INC.
175 NEW ST.,STE.1
MACON, GA 31201
EDC- M24085

10641 HIGHWAY 36
COVINGTON, GA 30014
770.786.3031

ELECTRICAL LEGEND & SCHEDULES

Retrofit & Renovations for
Madison Methodist Church
1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	TW
CHECKED BY:	JM
DESCRIPTION:	SCH-REVIEW-PI
DATE:	00.00.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW DOCS
DATE:	12.02.24
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.24

REVISIONS:

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OF

ELECTRICAL SPECIFICATIONS

DIVISION 26

ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO RETROFIT & RENOVATIONS FOR MADISON METHODIST CHURCH, MADISON, GEORGIA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
2. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.
3. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, GA ACCESSIBILITY CODE, STATE OF GEORGIA ENERGY CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
4. ALL PERMITS AND FEES SHALL BE OBATINED AND PAID FOR BY THE CONTRACTOR.
5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECONIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH IT'S LISTING.
6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.
7. THE TERM 'PROVIDE' SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS.
8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.
9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
10. PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.
11. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.

12. EQUIPMENT BREAKER AND WIRING REQUIREMENTS: THE CONTRACTOR SHALL SUBMIT FOR REVIEW A TABULATED SHEET OF BREAKER AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT REQUIRING POWER AS SPECIFIED IN DIVISION 23. REQUIREMENTS SHALL BE IDENTIFIED BY HORSEPOWER OR KW, OPERATING AMPERAGE, REQUIRED VOLTAGE AND PHASE REQUIREMENTS, AND MANUFACTURERS SUGGESTED OVERCURRENT CIRCUIT PROTECTION DEVICE SIZE AND MINIMUM CIRCUIT AMPACITY SIZE. WHERE THE ELECTRICAL REQUIREMENTS SUBMITTED FOR MECHANICAL EQUIPMENT DIFFERS FROM THE BRANCH CIRCUITRY SHOWN ON THE ELECTRICAL DRAWINGS (WHEN USING THE BASIS OF DESIGN UNIT LISTED IN THE MECHANICAL SCHEDULES/SPECIFICATIONS OR A SIMILAR UNIT OF THE SAME SIZE FROM LISTED ALTERNATE MANUFACTURERS), THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE BRANCH CIRCUITRY PER THE CURRENT NEC AT NO ADDITIONAL COST TO THE OWNER. WHEN CHANGES ARE MADE TO POWER REQUIREMENTS FOR EQUIPMENT DUE TO OWNER, ARCHITECT/ENGINEER APPROVED VALUE ENGINEERING CHANGES TO EQUIPMENT, THE COST MUST BE INCLUDED IN THE VALUE ENGINEERING OVERALL CHANGE ORDER COST. COSTS DUE TO ADJUSTMENTS IN BRANCH CIRCUITRY TO EQUIPMENT DUE TO VALUE ENGINEERING CHANGES WILL NOT BE ALLOWED AFTER THE OVERALL VALUE ENGINEERING CHANGE ORDER HAS BEEN APPROVED. IN ALL CASES, BREAKER AND WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT MUST BE PROVIDED TO THE ENGINEER BEFORE OR AT THE SAME TIME AS THE SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT. IN NO CASE SHALL THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT BE ORDERED OR BRANCH CIRCUITRY ROUGHED IN PRIOR TO ENGINEER REVIEW AND COMMENT ON THIS DOCUMENT. ANY EQUIPMENT ORDERED OR BRANCH CIRCUITRY ROUGHED IN ON THE JOBSITE WITHOUT THIS REVIEW AND COMMENT WILL BE TOTALLY AT THE CONTRACTORS RISK.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THHN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS.
2. ALL INTERIOR 120/277 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR "MC" CABLE (IF NOT EXPOSED) FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. IF "MC" CABLE IS USED, HOMERUNS SHALL BE IN 3/4 IN. EMT. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN 3/4" ELECTRICAL METALIC CONDUIT MINIMUM. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN EXPOSED STRUCTURE AREAS SHALL BE EMT. GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN AREAS WHERE IT WILL BE EXPOSED TO PHYSICAL DAMAGE.
3. CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC. IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER. WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALLIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE PROVIDED WITH INSULATED BUSHINGS.
4. A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES. ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER CONDUCTOR SIZED AS NOTED OR IN ACCORDANCE WITH THE NEC, WHICHEVER IS GREATER.
5. THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED IS 1/2 IN.
6. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. COVERS OF BOXES SHALL BE LABELED WITH THE CIRCUIT NUMBER WITH A BLACK PERMANENT MARKER IN 3/4 IN. HIGH LETTERS (LEGIBLE HANDWRITTEN LETTERING IS ACCEPTABLE).
7. ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM MOUNTING SUPPORT FOR THE DEVICE.
8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR, TAMPER RESISTANT (TYPE TR).
9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO SELECT COLOR.
10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.
11. PROVIDE BETWEEN 12 AND 24 INCHES OF LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN RIGID CONDUIT AND ANY EQUIPMENT CONTAINING MOTORS. THE FLEXIBLE CONDUIT SHALL BE SUPPORTED TO PREVENT THE CONDUIT FROM RESTING ON THE GROUND OR CONCRETE PAD.
12. PROVIDE WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF EACH PIECE OF EXTERIOR EQUIPMENT. THIS RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITH METAL HINGED "IN USE" COVER MOUNTED TO OPEN UP. THIS OUTLET SHALL BE A GFCI RECEPTACLE. THIS RECEPTACLE SHALL BE BE MOUNTED IN DIE CAST NON CORRODING METAL BOX.
13. WHEN OUTLETS OR BOXES ARE INDICATED INSTALLED ON OPPOSITE SIDES OF THE SAME WALL, THE CONTRACTOR SHALL ADJUST THE LOCATION TO OFFSET THE OUTLETS WITH A WALL STUD PROVIDING SEPERATION.

SECTION C: DISTRIBUTION EQUIPMENT

1. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.
2. SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE 1 ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.
3. ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS WITHIN TEN FEET OF THE UNIT UNLESS OTHERWISE NOTED. THIS DISCONNECTING MEANS SHALL AS A MINIMUM BE A NON-FUSED SWITCH OR TOGGLE STARTER SIZED TO MATCH THE EQUIPMENT. PROVIDE OTHER DEVICES AS NOTED ON THE PLANS. PROVIDE NEMA TYPE 1 ENCLOSURES INDOORS AND NEMA 3R OUTDOORS.
4. PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.
5. PROVIDE PANELS AS SCHEDULED ON PLANS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC BREAKERS WITH A MINIMUM INTERRUPTING RATING OF 10,000 AIC FOR 120/208V AND 14,000 AIC FOR 277/480V OR AS INDICATED ON THE PLANS. BREAKERS SHALL HAVE 65/75 DEGREE C RATED TERMINATIONS. PANEL NOTED SHALL BE SERVICE ENTRANCE RATED. MOUNT PANELS WITH TOP OF PANEL 6 FT. ABOVE FLOOR. PROVIDE 3/4 IN., GREY PAINTED PLYWOOD BACKBOARD FOR ALL PANELS SECURED TO WALL WITH 1/4 IN. TOGGLE BOLTS. PANEL MANUFACTURERS: SQUARE D, GENERAL ELECTRIC (GE), SEIMENS, AND EATON. ALL CURRENT CARRYING PARTS SHALL BE COPPER.
6. SYSTEM COORDINATION: THE MANUFACTURER OF THE PANELBOARDS SHALL PROVIDE SERIES RATED EQUIPMENT BASED ON U.L. LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.
7. PROVIDE EACH PANELBOARD WITH A TYPEWRITTEN CIRCUIT BREAKER DIRECTORY CARD INSIDE A PLASTIC COVERING (EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE INDETIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY AND COVERING SHALL BE LOCATED INSIDE A STEEL FRAME PROVIED INSIDE THE DOOR OF EACH PANELBOARD. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT BREAKER AND THE AREAS SERVED.
8. PROVIDE NAMEPLATES FOR ALL PANELBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BRAKERS, COMBINATION STARTERS, CONTACTORS, AND ALL OTHER ELECTRICAL DISTRIBUTION EQUIPMENT PANELS. MOUNT NAMEPLATES ON EXTERIOR OF THE DOOR OF ALL SURFACE MOUNTED PANELS AND EQUIPMENT. NAME PLATES SHALL BE LAMINATED PLASTIC PLATES WITH 3/16 IN. HIGH WHITE LETTERS ETCHED ON BLACK BACKGROUND. NAME PLATES SHALL BE INSTALLED PARALLEL TO EQUIPMENT LINES. THE NAME OR USEAGE OF EACH DEVICE OR BRANCH CIRCUIT SHALL BE ETCHED IN THE NAMEPLATE. CONTRACTOR TO COORDINATE EXACT EQUIPMENT IDENTIFICATION WITH THE OWNER. SECURE NAMEPLATES VIA EPOXY GLUE.

SECTION D: LIGHTING

1. TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, DRIVERS, BALLASTS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.
2. ALL LED FIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING LED SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBITING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.
3. RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.
4. DRIVERS SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).
5. ALL LED FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED. LED'S, DRIVERS AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 50,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
6. ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.
7. ALL RECESSED FIXTURES IN LAY IN TYPE CEILINGS SHALL BE PROVIDED WITH GRID CLIPS TO FASTEN FIRMLY TO CEILING SUPPORT GRID. THE CEILING GRID SHALL BE SUPPORTED AT EACH CORNER OF A FIXTURE.
8. CONNECTION OF ALL FIXTURES IN LAYIN CEILING SHALL BE BY FLEXIBLE CONDUIT OF FOUR TO SIX FEET IN LENGTH, A GROUND CONDUCTOR WILL BE INCLUDED WITH THIS CONNECTION.
9. ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.

SECTION E: FIRE ALARM SYSTEM (FULL VOICE EVAC SYSTEM)

1. ACCEPTABLE MANUFACTURERS: NOTIFIER, FIRE LITE, EDWARDS, SIMPLEX, OR SILENT KNIGHT.
2. PROVIDE A COMPLETE OPERABLE VOICE EVAC FIRE ALARM SYSTEM FOR THIS PROJECT. THE MAIN PANEL SHALL BE LOCATED AS SHOWN. THE FIRE ALARM SYSTEM SHALL BE DESIGNED FOR CLASS B OPERATION. THE WIRING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN 1/2 IN. ELECTRICAL METALLIC TUBING. PROVIDE INSULATED FITTINGS ON ALL CONDUIT ENDS. THE FIRE ALARM SHALL BE MADE IN THE USA AND BE UL LISTED. ALL WIRING AND DEVICES FOR THE SYSTEM SHALL BE SUPERVISED. COLOR CODE THE CONDUIT EVERY 24 IN. WITH RED MARKINGS (EXCEPT WHERE EXPOSED).
3. THE MAIN PANEL SHALL HAVE A BATTERY BACKUP AND BE SURGE PROTECTED. THE BATTERY SHALL BE CAPABLE OF PROVIDING NORMAL OPERATION FOR A PERIOD OF 24 HOURS WITH SUFFICIENT RESERVE TO ANNUNCIATE A BUILDING ALARM FOR 90 MINUTES.
4. NEW DEVICES SHALL BE PROVIDED WITH RECESSED METAL BOXES. ALL DEVICES SHALL BE MOUNTED FLUSH WITH WALL EXCEPT FOR PULL STATIONS WHICH SHALL BE SEMI-FLUSH.
5. NEW HORN/STROBE DEVICES AND SPEAKER/STROBE DEVICES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. THE SPEAKER SHALL PRODUCE A SOUND LEVEL OF 90 DECIBELS AND THE STROBE SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA. BOTH SOUND PRESSURE AND STROBE INTENSITY SHALL BE FIELD SELECTABLE AND ADJUSTABLE.
6. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA.
7. NEW PULL STATIONS SHALL BE NON-GLASS-BREAK TYPE AND KEYED THE SAME AS THE FIRE ALARM PANEL.
8. THE SMOKE DETECTORS SHALL BE THE PHOTOELECTRIC TYPE POWERED FROM THE MAIN FIRE ALARM PANEL.
9. THE GENERAL BUILDING ALARM WILL SOUND WHEN ACTIVATED AT THE CONTROL PANEL, BY SMOKE OR HEAT DETECTORS, OR BY A PULL STATION. ALARM WILL ALSO SOUND WHEN ACTIVATED BY A DUCT SMOKE DETECTOR OR SPRINKLER.
10. THE MAIN PANEL SHALL PROVIDE INDICATION OF EACH INITIATING DEVICE LOCATION FOR ALARM, TROUBLE AND SUPERVISORY CONDITIONS. THE PANEL SHALL HAVE LAMP TEST, ALARM SILENCE, TROUBLE AND SUPERVISORY SILENCE, SYSTEM RESET, AND ALARM INITIATING CONTROLS. THE PANEL SHALL ALSO INDICATE VOLTAGE AND BATTERY TEST. THE PANEL SHALL ALSO INCLUDE AN LCD DISPLAY. PANEL SHALL BE IN A SURFACE MOUNTED ENCLOSURE WITH LOCKABLE, SEE THROUGH, HINGED FRONT COVER.
11. THE FIRE ALARM PANEL SHALL BE EQUIPPED WITH A DIGITAL TRANSMITTER AND CELLULAR COMMUNICATOR FOR OFF PREMISES REMOTE MONITORING (FIRE DEPARTMENT) DURING ALARM CONDITION. PROVIDE 3/4 IN. CONDUIT FROM FIRE ALARM PANEL TO TELEPHONE BACKBOARD. FIELD COORDINATE.
12. PROVIDE REMOTE ANNUNCIATOR PANEL AS SHOWN ON PLANS. THE ANNUNCIATOR PANEL SHALL BE PROVIDED WITH AN LCD DISPLAY AND COMPLETE CONTROL PUSH BUTTONS INCLUDING, BUT NOT LIMITED TO, ALARM ACKNOWLEDGE, ALARM SILENCE, RESET, ETC.
13. PROVIDE PHOTO ELECTRIC TYPE DUCT MOUNTED SMOKE DETECTORS WHERE SHOWN IN HVAC SUPPLY DUCT. UNIT SHALL HAVE SAMPLING TUBES THAT EXTEND THE WIDTH OF THE DUCT. PROVIDE REMOTE INDICATOR ACCESSIBLE IN NEAREST MECH/ELEC ROOM FOR EACH DETECTOR, WHICH WILL INDICATE WHICH DETECTOR IS ACTIVATED.
14. FLOW AND TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED UNDER DIVISION 25 AND CONNECTED TO FIRE ALARM UNDER DIVISION 26. POWER SUPPLY SHALL BE 24 V. DC. SUPPLIED BY FIRE ALARM SYSTEM. PROVIDE ADDRESSABLE MONITORING MODULE FOR ALL DEVICES / SWITCHES.
15. NEW HEAT DETECTORS SHALL BE COMBINATION TYPE, RATE OF RISE AND FIXED TEMP, SET INITIALLY TO MINIMUM 135 DEGREES F, AND SHALL BE RATED FOR 200 DEGREES F.
16. VOICE EVACUATION CONTROL FUNCTIONS ARE TO BE INTEGRATED INTO THE OVERALL FIRE ALARM CONTROL PANEL, AND SHALL PROVIDE MICROPHONES / HANDSETS, AMPLIFIERS, POWER SUPPLIES, SWITCH CONTROLS, AND STATUS INDICATION. THE VOICE EVACUATION CONTROLS SHALL HAVE CAPABILITY AND FUNCTIONALITY TO HAVE AUTOMATED VOICE MESSAGES AS WELL AS LIVE MESSAGING. AUTOMATED MESSAGING SHALL HAVE CAPABILITY TO STORE AND PRIORITIZE UP TO 16 AUTOMATED MESSAGES IN STANDARD MEMORY. SWITCH CONTROLS SHALL ALLOW FOR SELECTION OF INDIVIDUAL SPEAKERS, SPEAKER CIRCUITS, ZONES, OR GROUPS OF DEVICES FOR ANNUNCIATION.
17. SEE FIRE ALARM SUBCONTRACTOR SUBMITTAL TO AUTHORITY HAVING JURISDICTION ON SHEET E0.1 FOR ADDITIONAL REQUIREMENTS. FIRE ALARM SUBCONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE, AND LOCAL CODES.

SECTION F: TELEPHONE/DATA/CATV SYSTEMS

WORK INCLUDED:

1. WORK SHALL INCLUDE PROVISIONS FOR A COMPLETE TELEPHONE/DATA CABLING SYSTEM INCLUDING TELEPHONE/DATA COMBINATION OUTLETS, CABLING, CONDUIT, BOXES, TELEPHONE AND DATA PATCH PANELS, AND PLYWOOD BACKBOARDS.

SCOPE OF PROJECT, STANDARDS, AND DESCRIPTION:

1. THE CABLING AND WIRING PLACED FOR VOICE AND DATA COMMUNICATIONS ON THIS UNDERTAKING SHALL BE "UNSHIELDED TWISTED PAIR" TYPE AND CONFORM TO THE REQUIREMENTS CONTAINED IN THE LASTEST EDITIONS OF THE NATIONAL ELECTRIC CODE (NEC) AND THE LASTEST EDITIONS OF THE FOLLOWING AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) SPECIFICATIONS:
A. EIA-TIA-568 COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING.
B. STANDARD B. EIA-TIA-569 COMMERCIAL BUILDING STANDARD FOR TELECOMM, PATHWAYS AND SPACES.
C. TIA/EIA-606 ADMINSTRATION STANDARD FOR THE TELECOMM. INFRASTRUCTURE OF COMMERCIAL BUILDINGS.
D. TIA/EIA-607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.
E. SUPPLEMENTS TO EIA/TIA-568 TECHNICAL SYSTEMS BULLETINS.
F. TSB-36 ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR CABLES.
G. TSB-40 ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHIELDED TWISTED PAIR HARDWARE.

WORKMANSHIP:

1. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER. ARCHITECT, ENGINEER, AND/OR OWNER MAY OBSERVE THE WORK PROCEDURES AND WORKMANSHIP OF THE CONTRACTOR BUT SUCH OBSERVATION WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR PERFORMANCE.

WARRANTY:

1. THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY THAT DESCRIBES THE EQUIPMENT SUPPLIED UNDER THESE SPECIFICATIONS WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE YEARS AND THE CABLE PLANT/LABOR WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE YEARS FROM THE DATE OF FINAL ACCEPTANCE UNLESS OTHERWISE SPECIFIED AND THAT ALL DEFECTS OCCURING WITHIN THAT PERIOD SHALL BE CORRECTED IN A TIMELY MANNER AT NO COST TO THE OWNER.

CONTRACTOR'S QUALIFICATIONS:

1. CONTRACTOR SHALL BE REQUIRED, BEFORE AWARDING OF CONTRACT, TO DEMONSTRATE TO THE COMPLETE SATISFACTION OF THE ARCHITECT THAT HE HAS THE NECESSARY FACILITIES, ABILITY AND FINANCIAL RESOURCES TO EXECUTE THE WORK IN A SATISFACTORY MANNER AND WITHIN THE TIME SPECIFIED; THAT HE HAS HAD EXPERIENCE IN CONSTRUCTION WORK AS SAME OR SIMILAR NATURE; THAT HE HAS PAST HISTORY AND REFERENCES WHICH WILL ASSURE THE OWNER OF HIS QUALIFICATIONS FOR EXECUTING THE WORK.
2. CONTRACTOR SHALL SUBMIT A COPY OF A VALID LOW-VOLTAGE LICENSE (LOW-VOLTAGE GENERAL, LOW-VOLTAGE TELECOMMUNICATIONS OR LOW-VOLTAGE UNRESTRICTED AS ISSUED BY THE STATE CONSTRUCTION INDUSTRY LICENSING BOARD OF LOW-VOLTAGE CONTRACTORS).
3. CONTRACTOR SHALL SUBMIT A COPY OF BICSI (BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL) CERTIFIED RCDD (REGISTERED COMMUNICATIONS DISTRIBUTIONS DESIGNER) CERTIFICATE.
4. COMPREHENSIVE LIST OF REFERENCES; ATTACH A DETAILED LIST OF REFERENCES ALONG WITH CONTACT PERSON, DATES OF WORK, MAILING ADDRESS, TELEPHONE NUMBERS.
5. CONTRACTOR MUST PROVIDE PROOF OF INSTALLATION IN A MINIMUM OF FIVE SITES USING AN CATEGORY 6E STRUCTURED CABLING WITH 100 OR MORE ACTIVE (WORKING) NODES INSTALLED.

SUBMITTALS:

1. SUBMIT PRODUCT DATA CONSISTING OF MANUFACTURER'S PUBLISHED LITERATURE AND AS SPECIFIED FOR:
A. LITERATURE FOR EACH SEPARATE TYPE OF EQUIPMENT BEING PROVIDED. INDICATE MODEL NUMBER ON CUTSHEET.
B. ONE LINE SCHEMATIC OF COMPLETE SYSTEM SHOWING A FLOOR PLAN TO SCALE, SHOW LOCATIONS AND THE TYPE OF OUTLETS, AS WELL AS ALL RACK LOCATIONS, AND CABLING TYPE.
C. DOCUMENTATION OF TESTING ON ALL WIRING AND TERMINATIONS AS PER EIA/TIA STANDARDS.

MAUFACTURERS:

1. ACCEPTABLE MANUFACTURERS FOR EACH TYPE OF EQUIPMENT SPECIFIED SHALL BE AS NOTED THROUGHOUT THIS SPECIFICATION SECTION.
2. THE ACCEPTABLE MANUFACTURERS NOTED SHALL BE INSTALLED BY THE AUTHORIZED LOCAL FACTORY DEALER/ REPRESENTATIVE FOR THAT PRODUCT.
3. THE CONTRACTOR SHALL HOLD A CURRENT LOW VOLTAGE CONTRACTOR'S LICENSE AND RCDD CERTIFICATE. ANY OTHER INTERESTED PARTIES SHALL SUBMIT A COMPANY RESUME SHOWING YEARS IN BUSINESS, CERTIFICATION STATING THAT HE IS AN AUTHORIZED REPRESENTATIVE FOR THE MANUFACTURER OF THE EQUIPMENT HE IS SUBMITTING FOR APPROVAL AND THAT HE MAINTAINS A FULLY EQUIPPED AND STOCKED SERVICE SHOP AND SHALL RESPOND TO SERVICE CALLS WITHIN 12 NORMAL WORKING HOURS, LIST OF KEY PERSONNEL, COPIES OF APPROPRIATE LICENSES AND LIST OF RECENTLY COMPLETED JOBS.

TELEPHONE/DATA JACK AND OUTLET SPECIFICATIONS:

1. LOCATIONS SHOWN ON DRAWINGS WILL BE EQUIPPED WITH A CONSISTENT ARRANGEMENT OF LAN COMMUNICATIONS OUTLETS. PROVIDE JACKS IN OUTLETS (AS DETAILED ON DRAWING). PROVIDE COLORED ICONS AS INDICATED ON DRAWINGS.
2. OUTLET FACEPLATE FOR THIS ARRANGEMENT SHALL BE CONFIGURED IN THE FOLLOWING FASHION:
A. THE JACKS USED SHALL FIT PROPERLY IN THE OUTLET OPENINGS OF THE OUTLET FACEPLATE. THE JACKS USED ALSO CONFORM TO PARAMETERS SET IN EIA/TIA 568, TSB36 AND TSB40A.
B. IN A PROPERTY INSTALLED CATEGORY 6E UTP WIRING ARRANGEMENT, C. THE WIRING ARRANGEMENT OF THE JACK SHALL CONFORM TO THE EIA/TIA 568, TSB36 AND TSB40A.
3. THE JACK SHALL POSSESS THE FOLLOWING CHARACTERISTICS:
A. THE EIGHT (8) POSITION/ EIGHT (8) CONDUCTOR JACK SHALL BE CAPABLE OF SUPPORTING THE PREVIOUSLY DEFINED DATA RATES AS WELL AS VOICE (INCLUDING ISDN).
B. UTILIZATION OF 110 TYPE OR EQUIVALENT INSULATION DISPLACEMENT HARDWARE FOR HORIZONTAL WIRE ATTACHMENT AND ACCEPTANCE OF 22 OR 24 AWG CONDUCTORS.
C. THE JACK WIRES SHALL CONSIST OF 50 MICRO-INCH LUBRICATED GOLD PLATING OVER 100 MICRO-INCH NICKEL UNDERPLATING.
D. ANY VACANT FACEPLATE POSITION SHALL BE RESERVED FOR FUTURE GROWTH AND SHOULD HAVE A DUST COVER/BLANK INSERTED.
4. ACCEPTABLE MANUFACTURER'S: ORTRONICS, SERIES II 568 B JACKS AND HUBBELL.
5. WIRELESS ACCESS POINTS SHALL HAVE A BISCUIT JACK AT THE CEILING WITH TWO CAT 6E CABLES AND JACKS.

TELEPHONE/DATA HORIZONTAL WIRING SPECIFICATIONS: (BERK-TEK LANMARK 1000 (CAT 6E) CABLE)

1. THIS SECTION COVERS THE CABLE FROM THE COMMUNICATIONS OUTLETS TO THE PUNCH DOWN BLOCK. THESE CABLES SHALL BE AS INDICATED ON DRAWINGS UNSHIELDED TWISTED PAIR CABLE. EACH CABLE SHALL BE PLACED IN A POINT "POINT-TO-POINT" FASHION FROM THE OUTLET TO THE WIRING CLOSET FOR EACH COMMUNICATIONS OUTLET NEEDED. THERE SHALL BE NO INTERMEDIATE SPLICES OR CROSS CONNECTS IN THESE CABLES. PROVIDE ONE (1) CABLE FOR EACH JACK. SEE DRAWINGS FOR NUMBER OF JACKS IN EACH OUTLET. CABLE SHALL BE BLUE IN COLOR. CABLE SHALL BE PLENUM RATED.
2. THE CHARACTERISTICS OF THE HORIZONTAL CABLE ARE AS FOLLOWS:
A. CABLE CONSISTING OF FOUR

GENERAL DEMOLITION NOTES: (SHEETS E1.1 AND E1.2)

A. REMOVE EXISTING LIGHTS (ONLY IN SPECIFIED AREAS) AND DISPOSE OF AS DIRECTED BY OWNER.

B. PROVIDE BLANK COVERS ON ALL JUNCTION BOXES AND OUTLET BOXES NOT INTENDED FOR REUSE. PROVIDE BLANK COVERS OVER ANY AND ALL UNCOVERED EXISTING JUNCTION OR OUTLET BOXES.

C. EXISTING CEILINGS, WALLS, AND FLOORS DISTURBED OR DISFIGURED BY THE ELECTRICAL RENOVATION SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.

D. ALL EXISTING EQUIPMENT REMOVED FROM SERVICE AND NOT INTENDED FOR REUSE SHALL REMAIN THE PROPERTY OF OWNER AND SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER.

E. MAINTAIN SERVICE TO ALL EXISTING CIRCUITS THAT ARE NOT SCHEDULED FOR REMOVAL.

F. ALL ACCESSIBLE ITEMS OF ELECTRICAL EQUIPMENT CONDUITS, WIRING, LIGHTS, RECEPTACLES, ETC. AFFECTED BY THE RENOVATION WORK AND NOT REQUIRED IN THE COMPLETED WORK SHALL BE CAREFULLY REMOVED. DAMAGED WALLS, FLOORS, CEILINGS, ETC. SHALL BE PATCHED AND FINISHED TO MATCH THE EXISTING ADJACENT SURFACES. REMOVED ITEMS SHALL BE PROPERLY DISPOSED OF OFF SITE AND NOT REUSED EXCEPT AS NOTED. TURN OVER ALL EXISTING EQUIPMENT DESIRED BY BUILDING OWNER.

G. RECONNECT CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT TO REMAIN.

H. WHERE ONLY A PORTION OF A CIRCUIT'S LOAD IS SCHEDULED TO BE REMOVED. REMOVE ONLY THAT PORTION ASSOCIATED WITH THE DEMOLISHED DEVICE TO A POINT WHERE THE REMAINING LOAD IS ACTIVE AND MAINTAIN IN A GOOD OPERATING CONDITION.

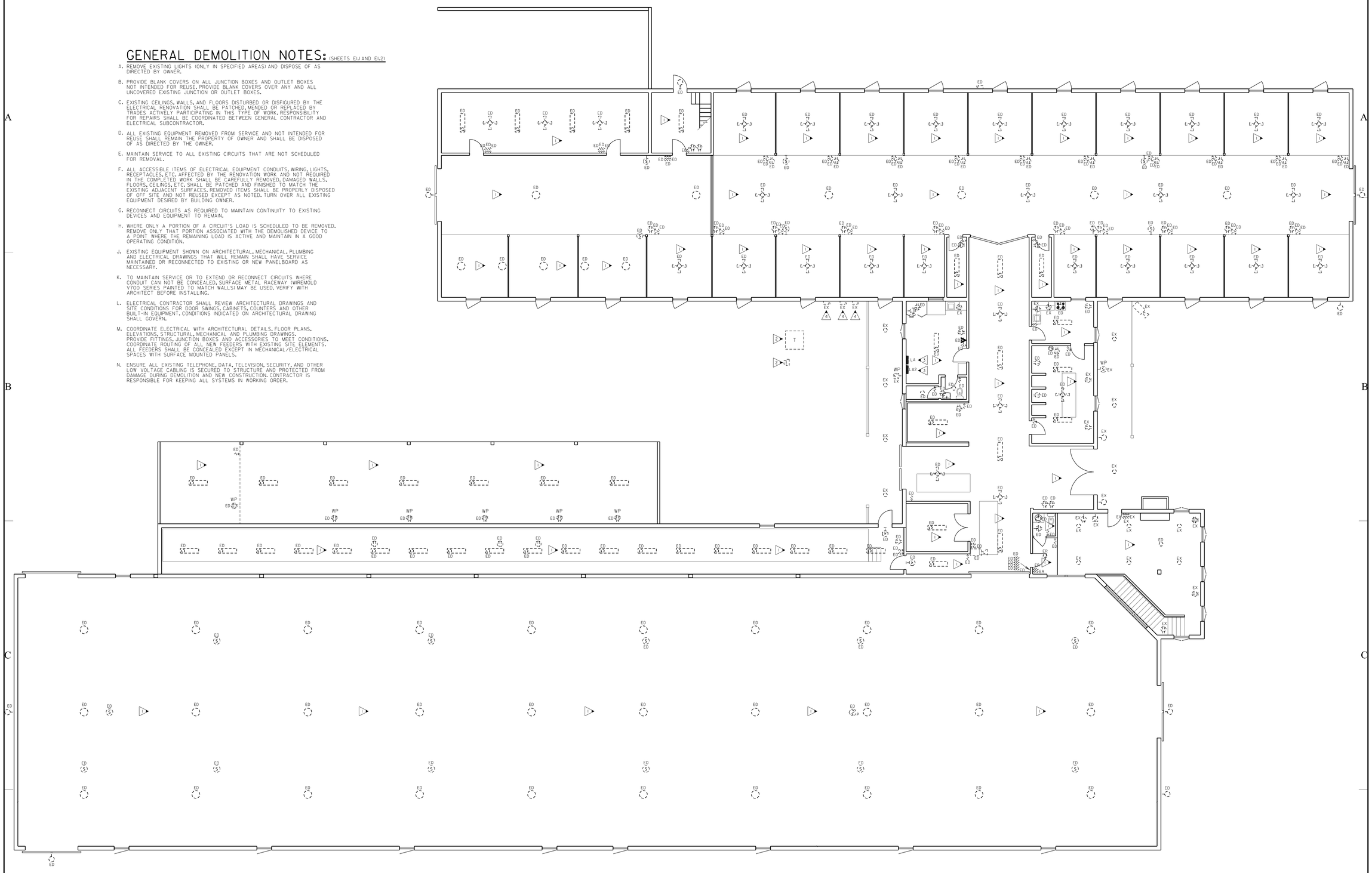
J. EXISTING EQUIPMENT SHOWN ON ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS THAT WILL REMAIN SHALL HAVE SERVICE MAINTAINED OR RECONNECTED TO EXISTING OR NEW PANELBOARD AS NECESSARY.

K. TO MAINTAIN SERVICE OR TO EXTEND OR RECONNECT CIRCUITS WHERE CONDUIT CAN NOT BE CONCEALED, SURFACE METAL RACEWAY (WIREMOLD V700 SERIES PAINTED TO MATCH WALLS) MAY BE USED. VERIFY WITH ARCHITECT BEFORE INSTALLING.

L. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS AND SITE CONDITIONS FOR DOOR SWINGS, CABINETS, COUNTERS AND OTHER BUILT-IN EQUIPMENT. CONDITIONS INDICATED ON ARCHITECTURAL DRAWING SHALL GOVERN.

M. COORDINATE ELECTRICAL WITH ARCHITECTURAL DETAILS, FLOOR PLANS, ELEVATIONS, STRUCTURAL, MECHANICAL AND PLUMBING DRAWINGS. PROVIDE FITTINGS, JUNCTION BOXES AND ACCESSORIES TO MEET CONDITIONS. COORDINATE ROUTING OF ALL NEW FEEDERS WITH EXISTING SITE ELEMENTS. ALL FEEDERS SHALL BE CONCEALED EXCEPT IN MECHANICAL/ELECTRICAL SPACES WITH SURFACE MOUNTED PANELS.

N. ENSURE ALL EXISTING TELEPHONE, DATA, TELEVISION, SECURITY, AND OTHER LOW VOLTAGE CABLING IS SECURED TO STRUCTURE AND PROTECTED FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SYSTEMS IN WORKING ORDER.



DEMOLITION LEGEND	
ED	EXISTING DEVICE TO BE DEMOLISHED. SEE DEMOLITION NOTES.
ER	EXISTING DEVICE TO BE RELOCATED. PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW BRANCH CIRCUIT BACK TO SERVING PANEL, BACKBOARD OR CABINET.
EX	EXISTING DEVICE TO REMAIN. PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW CABLING BACK TO SERVING CABINET ON LOW VOLTAGE DEVICES.

1 E1.1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

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

0 4' 8'

COORDINATION NOTE:

CONTRACTOR SHALL CAREFULLY REVIEW HVAC AND ELECTRICAL DRAWINGS PRIOR TO BID. ALL HVAC EQUIPMENT TO REMAIN, EQUIPMENT BEING REPLACED, AND NEW EQUIPMENT SHALL BE PROVIDED POWER. ELECTRICAL DRAWINGS SHOW THE MEANS OF PROVIDING POWER. HOWEVER, ALL EQUIPMENT MUST BE POWERED WHETHER SHOWN OR NOT.

WHERE ELECTRICAL DRAWINGS SHOW PROVIDING BREAKERS IN EXISTING PANELS TO SERVE EQUIPMENT, CONTRACTOR SHALL VERIFY AVAILABLE SPACE. IF NOT AVAILABLE, CONTRACTOR SHALL PROVIDE BREAKER IN CLOSEST PANEL WITH AVAILABLE CAPACITY AND SPACE.

ALL EQUIPMENT MUST BE PROVIDED WITH A DISCONNECTING MEANS PER THE 2020 NEC (WHETHER OR NOT SHOWN ON ELECTRICAL DRAWINGS OR DIVISION 23)

KEYED NOTES: (THIS SHEET ONLY)

1. ALL EXISTING ELECTRICAL DEVICES IN AREA TO BE DEMOLISHED UNLESS NOTED OTHERWISE. RACEWAYS AND BOXES MAY BE REUSED WHERE POSSIBLE.
2. EXISTING UTILITY CO EQUIPMENT TO BE UPSIZED AND RELOCATED FOR NEW SERVICE. SEE EXISTING POWER RISER DIAGRAM AND NEW POWER RISER DIAGRAM ON SHEET E5.1 FOR NEW SERVICE. SEE SHEET E3.2 FOR NEW LOCATION AND LOCATION REQUIREMENTS.
3. EXISTING ELECTRICAL GEAR TO BE RELOCATED. SEE DETAILS 1/E2.1 AND 1/E3.1 FOR NEW LOCATION. EXTEND ALL EXISTING CIRCUITS TO REMAIN TO NEW LOCATION.
4. EXISTING HVAC UNITS TO REMAIN. COORDINATE WITH MECHANICAL.

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FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

Retrofit & Renovations for Madison Methodist Church

Madison, Georgia 30650

1091 Confederate Highway

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CHECKED BY:	JM
DESCRIPTION:	SCH-REVIEW-PI
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DESCRIPTION:	DD-REVIEW
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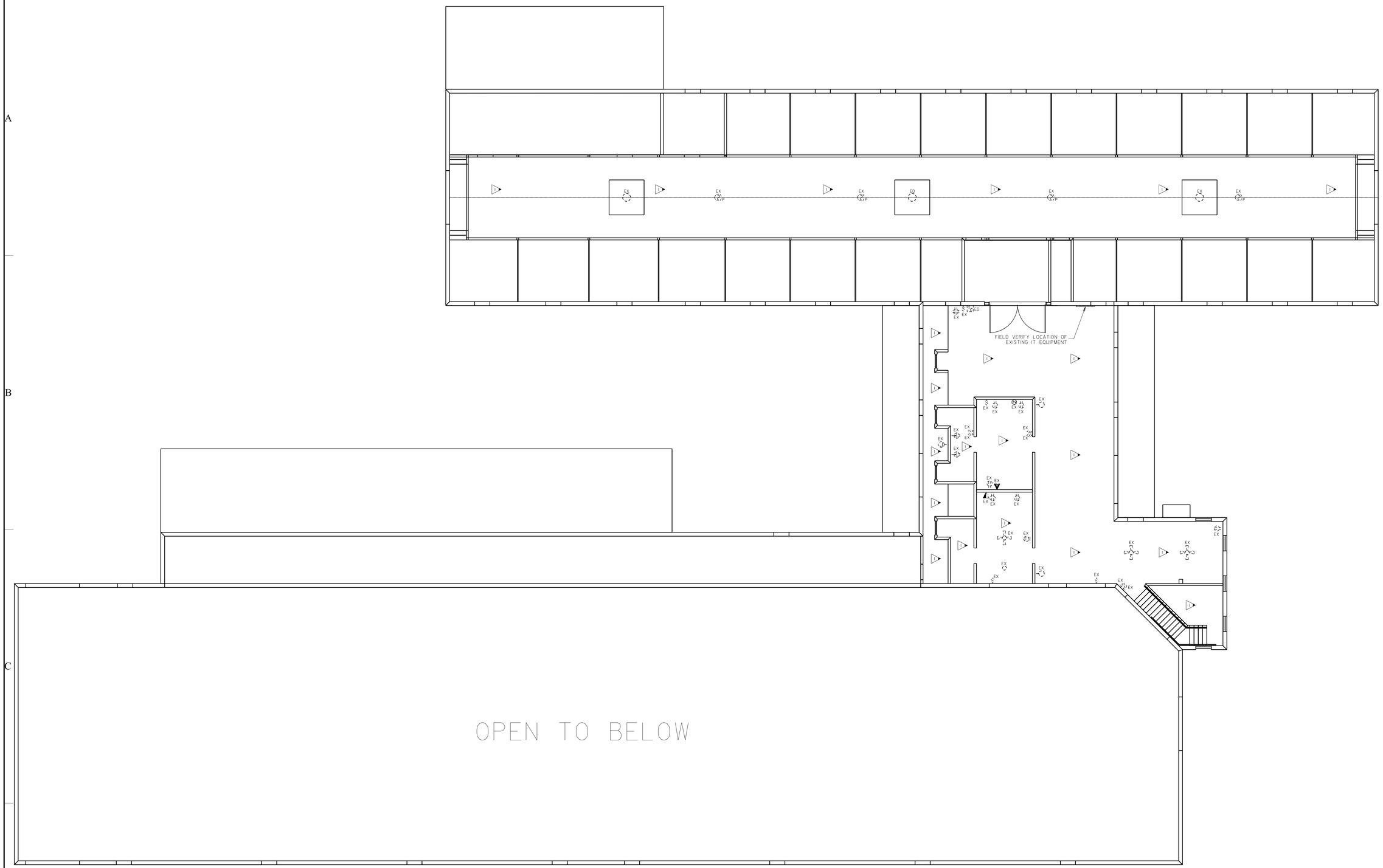
SHEET

E1.1

OF



DEMOLITION LEGEND

ED	EXISTING DEVICE TO BE DEMOLISHED. SEE DEMOLITION NOTES.
ER	EXISTING DEVICE TO BE RELOCATED. PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW BRANCH CIRCUIT BACK TO SERVING PANEL, BACKBOARD OR CABINET.
EX	EXISTING DEVICE TO REMAIN. PROVIDE NEW DEVICE AND FACEPLATE. PROVIDE NEW CABLING BACK TO SERVING CABINET ON LOW VOLTAGE DEVICES.

1 E1.2 SECOND FLOOR PLAN - ELECTRICAL DEMOLITION

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

0 4' 8'

KEYED NOTES: (THIS SHEET ONLY)

1. NO DEMOLITION WORK IN AREA UNLESS NOTED OTHERWISE.

GENERAL DEMOLITION NOTES: (THIS SHEET ONLY)

A. SEE SHEET E1.1 FOR GENERAL DEMOLITION NOTES.

COORDINATION NOTE:

CONTRACTOR SHALL CAREFULLY REVIEW HVAC AND ELECTRICAL DRAWINGS PRIOR TO BID. ALL HVAC EQUIPMENT TO REMAIN, EQUIPMENT BEING REPLACED, AND NEW EQUIPMENT SHALL BE PROVIDED POWER. ELECTRICAL DRAWINGS SHOW THE MEANS OF PROVIDING POWER. HOWEVER, ALL EQUIPMENT MUST BE POWERED WHETHER SHOWN OR NOT.

WHERE ELECTRICAL DRAWINGS SHOW PROVIDING BREAKERS IN EXISTING PANELS TO SERVE EQUIPMENT, CONTRACTOR SHALL VERIFY AVAILABLE SPACE. IF NOT AVAILABLE, CONTRACTOR SHALL PROVIDE BREAKER IN CLOSEST PANEL WITH AVAILABLE CAPACITY AND SPACE.

ALL EQUIPMENT MUST BE PROVIDED WITH A DISCONNECTING MEANS PER THE 2020 NEC WHETHER OR NOT SHOWN ON ELECTRICAL DRAWINGS OR DIVISION 23)

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SECOND FLOOR PLAN - ELECTRICAL DEMOLITION

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

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E1.2

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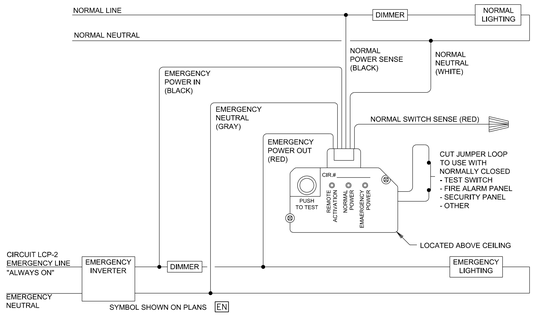
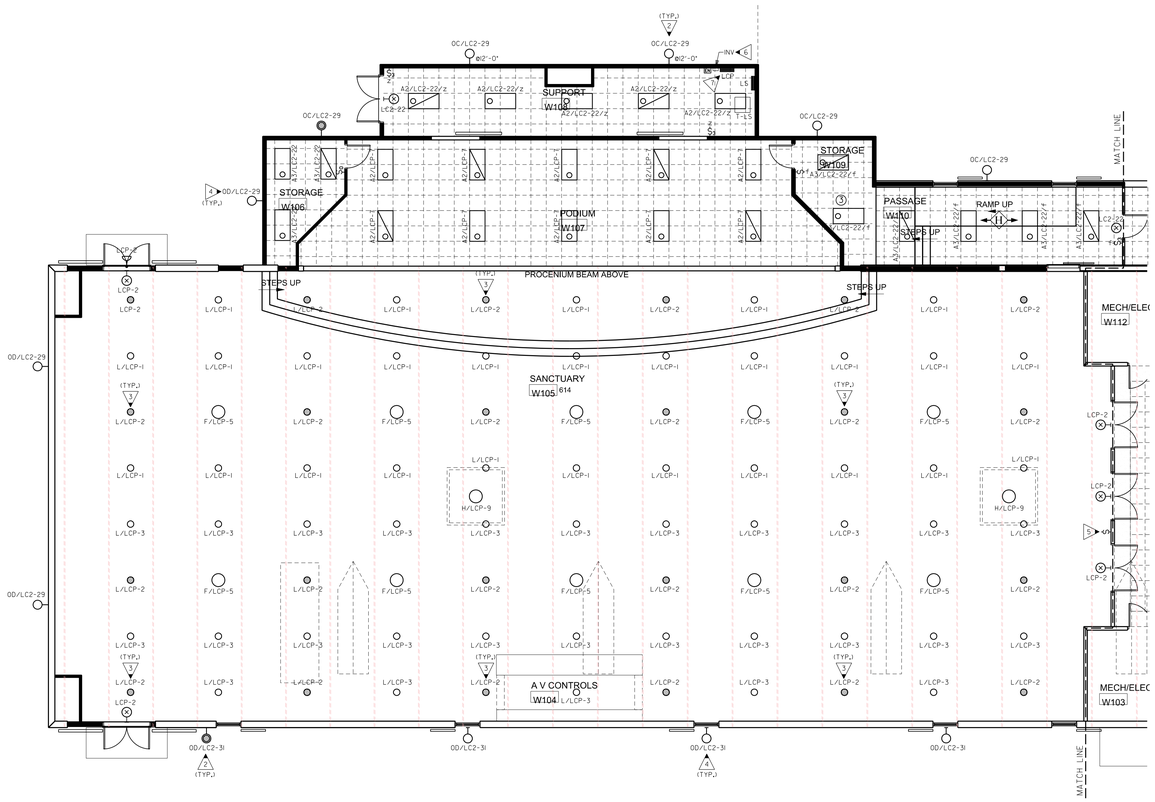


2 / E2.1 EMERGENCY LIGHTING CONTROL UNIT DETAIL - (EMERGENCY LIGHTS SWITCHED W/NORMAL LIGHTS)

NOT TO SCALE

NOTE: NORMAL POWER SENSING FEED IS NOT SHOWN ON THE DRAWINGS BUT SHALL BE PROVIDED FROM NEAREST NORMAL POWER CIRCUIT.



1 / E2.1 PARTIAL FIRST FLOOR PLAN - LIGHTING

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

0 4' 8'

KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE 365 DAY DIGITAL PROGRAMMABLE TYPE ELECTRONIC CONTROL TIMECLOCK WITH MINIMUM 10 CONTACTS AND MINIMUM 96 ON/OFF EVENTS PER WEEK. CONTACTS RATED FOR MINIMUM 30 AMPS AND 208 VOLTS. PROVIDE WITH NEMA TYPE 1 ENCLOSURE AND CAPACITOR BACKUP. PROVIDE WITH AUTO-ON-OFF FUNCTION. PROVIDE AUXILIARY INPUT FROM PHOTO CELL FOR OVERRIDE ON OR OFF CONTROL.
2. ROUTE VIA 10 POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED ADJACENT PANEL5. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 1. USE "D"S ENTIRE CIRCUIT IN 3/4 IN. C. UNLESS NOTED OTHERWISE. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
3. TYPICAL TYPE "L" EMERGENCY LIGHTING FIXTURE CIRCUITS IN SANCTUARY ARE ROUTED THROUGH EMERGENCY SWITCHING RELAY FOR EMERGENCY LIGHTING.
4. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
5. COORDINATE FINAL LOCATION OF SWITCH STATION WITH OWNER/ARCHITECT, AND A/V CONSULTANT PRIOR TO ROUGH IN.
6. SEE DETAIL 2/E2.1 FOR WIRING REQUIREMENTS OF EMERGENCY LIGHTING AND CENTRAL BATTERY INVERTER.
7. PROVIDE 12 POLE LIGHTING CONTROL RELAY PANEL SYSTEM FOR SANCTUARY COMPLETE WITH BREAKERS AND SWITCHING RELAYS FOR EACH POLE. SYSTEM MUST BE PROVIDED COMPLETE WITH A LOW VOLTAGE WALL STATION, LOW VOLTAGE CONTROLS, AND SOFTWARE REQUIRED FOR SYSTEM FUNCTIONALITY. BASIS OF DESIGN IS THE WAVELINX WIRED UNIVERSAL SOURCE CONTROLLER. ACCEPTABLE MANUFACTURERS ARE COOPER LIGHTING / WAVELINX OR APPROVED EQUAL BY LITHONIA / NLIGHT, OR CURRENT / NX LIGHTING.

GENERAL NOTES: (SHEETS E2.1 & E2.2)

A. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.

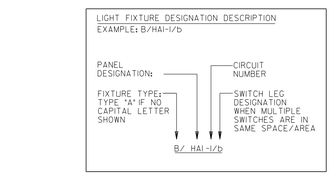
B. ALL AREA'S OF THIS PLAN REQUIRE OCCUPANCY SENSOR COVERAGE (EXCEPT FOR MECHANICAL ROOMS, ELECTRICAL ROOMS, SANCTUARY, AND FELLOWSHIP HALL). SEE LIGHTING SENSOR LEGEND E0.1 (TYPICAL).

C. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.

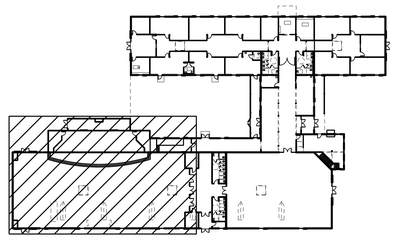
D. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.

E. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING) JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.

F. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS FOR NORMAL SWITCHED OPERATION OF FIXTURES WITH INTERNAL BATTERY BACKUP.



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



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PARTIAL FIRST FLOOR PLAN - LIGHTING

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

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SHEET

E2.1

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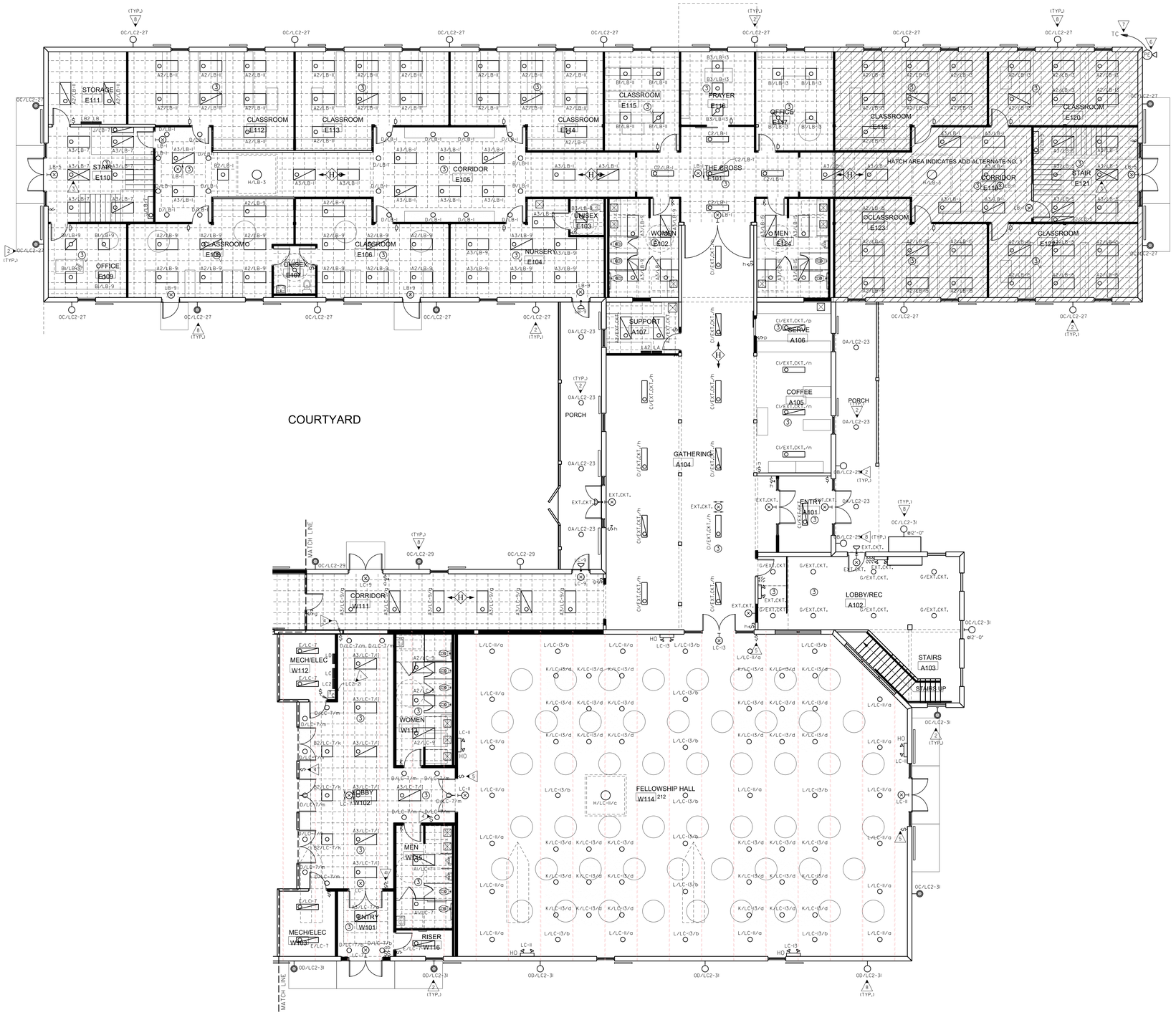


PARTIAL FIRST FLOOR PLAN - LIGHTING

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

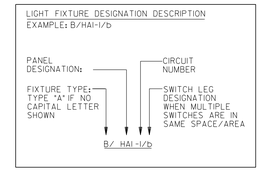
KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE 365 DAY DIGITAL PROGRAMMABLE TYPE ELECTRONIC CONTROL TIMECLOCK WITH MINIMUM 10 CONTACTS AND MINIMUM 96 ON/OFF EVENTS PER WEEK. CONTACTS RATED FOR MINIMUM 30 AMPS AND 208 VOLTS. PROVIDE WITH NEMA TYPE 1 ENCLOSURE AND CAPACITOR BACKUP. PROVIDE WITH AUTO-ON-OFF FUNCTION. PROVIDE AUXILIARY INPUT FROM PHOTO CELL FOR OVERRIDE ON OR OFF CONTROL.
2. ROUTE VIA 10 POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED ADJACENT PANELS. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 1. USE #10'S ENTIRE CIRCUIT IN 3/4 IN. C. UNLESS NOTED OTHERWISE. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
3. UNSWITCHED NIGHT LIGHT FIXTURE. PROVIDE FIXTURE WITH INTERNAL EMERGENCY BATTERY PACK OPTION.
4. PROVIDE A THREE ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH FOUR MULTISCENE (4-SCENE+OFF+RAISE/LOWER) WALL BOX STATIONS AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS, AND CONNECTIVY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM TO BE FULLY PROGRAMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE NLIGHT NPOD SYSTEM. SYSTEM SHALL CONTROL FIXTURES FOR LOBBY W102 WITH SHOWN INDICATIONS (j, k, m) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.
5. PROVIDE A FOUR ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH THREE MULTISCENE (4-SCENE+OFF+RAISE/LOWER) WALL BOX STATIONS AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS, AND CONNECTIVY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM TO BE FULLY PROGRAMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE NLIGHT NPOD SYSTEM. SYSTEM SHALL CONTROL FIXTURES FOR FELLOWSHIP HALL W114 WITH SHOWN INDICATIONS (o, p, q, r) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.
6. LOCATE P.E. CELL FACING NORTH, CLEAR OF MAN MADE LIGHT SOURCES. J-BOX TO HOUSE P.E. CELL SHALL BE RECESSED MOUNTED WITH STAINLESS STEEL COVER.
7. ROUTE 5#12, 1/2 IN. C. TO LIGHTING CONTROL TIMECLOCK FOR AUXILIARY SWITCH CONTROL INPUT.
8. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

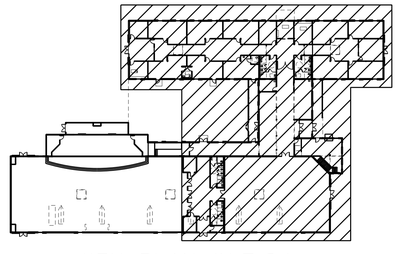
GENERAL NOTES: (THIS SHEET ONLY)

A. SEE SHEET E2.1 FOR GENERAL NOTES.

NOTE:
THERE IS NOT A SHEET E2.3. THERE IS NO NEW LIGHTING WORK ON THE SECOND FLOOR.



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN (N.T.S.)

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PARTIAL FIRST FLOOR PLAN - LIGHTING

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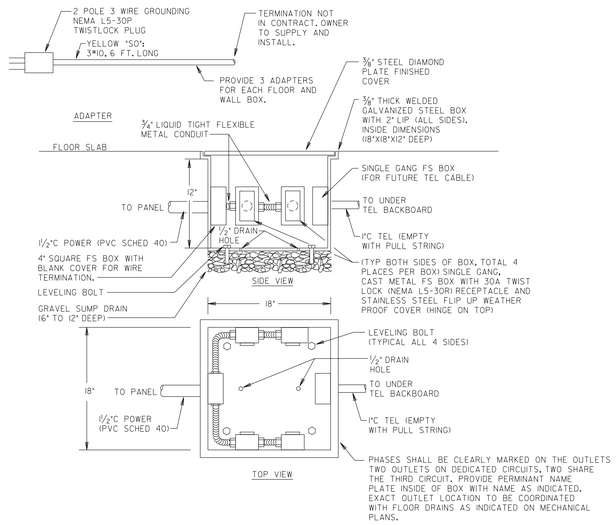


2 / E3.1 SANCTUARY FLOOR BOX DETAIL

NOT TO SCALE

GENERAL NOTES: (SHEETS E3.1, E3.2, E3.3, & E4.1)

A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.

B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.

C. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.

D. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS. PROVIDE OUTLET BOXES AND CONDUIT TO ABOVE CEILINGS FOR ALL THERMOSTATS.

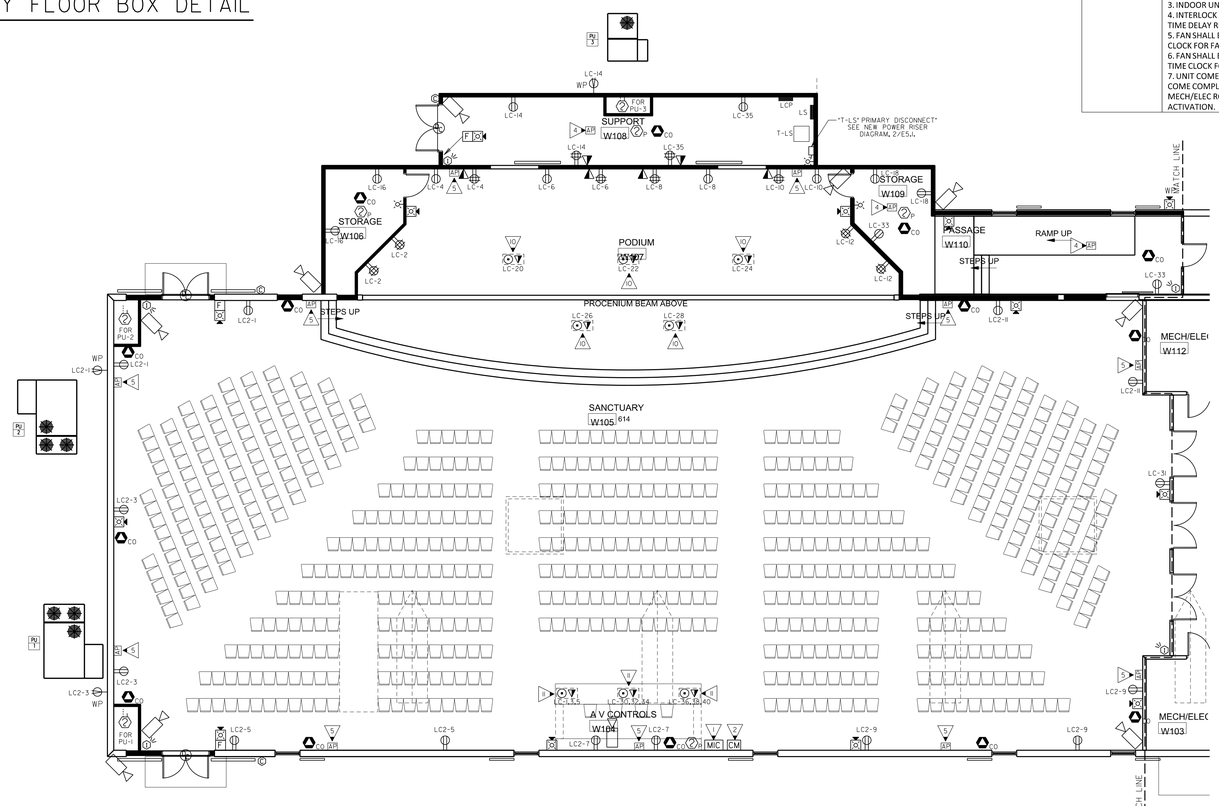
E. FIRE SEAL ALL FIREWALL PENETRATIONS.

F. REFER TO WIRE MANAGEMENT NOTES AND GENERAL NOTES (DATA CABLING) LOCATED ON SHEET E5.2.

MECHANICAL EQUIPMENT POWER SCHEDULE

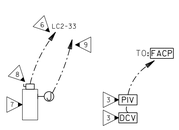
UNIT NAME	VOLTAGE/ PHASE	CIRCUIT BREAKER	PANEL NAME/ CIRCUIT NUMBER	FEEDER	DISCONNECT SWITCH	NOTES
HP-1	208V/1PH	50A/2P	LD-1	3#6, #10G., 1 IN. C.	60A/2P/3R	1
HP-2	208V/1PH	50A/2P	LD-5	3#6, #10G., 1 IN. C.	60A/2P/3R	1
HP-3	208V/1PH	50A/2P	LD-9	3#6, #10G., 1 IN. C.	60A/2P/3R	1
HP-4	208V/1PH	50A/2P	LD-13	3#6, #10G., 1 IN. C.	60A/2P/3R	1
HP-5	208V/1PH	50A/2P	LD-17	3#6, #10G., 1 IN. C.	60A/2P/3R	1
HP-6	208V/1PH	25A/2P	LB2-2	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1
HP-7	208V/1PH	25A/2P	LB2-6	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1
AH-1	208V/1PH	60A/2P	LD-21	3#6, #8G., 1 IN. C.	60A/2P	1,2
AH-2	208V/1PH	60A/2P	LD-25	3#6, #8G., 1 IN. C.	60A/2P	1,2
AH-3	208V/1PH	60A/2P	LD-29	3#6, #8G., 1 IN. C.	60A/2P	1,2
AH-4	208V/1PH	60A/2P	LD-33	3#6, #8G., 1 IN. C.	60A/2P	1,2
AH-5	208V/1PH	60A/2P	LD-20	3#6, #8G., 1 IN. C.	60A/2P	1,2
AH-6	208V/1PH	30A/2P	LB2-10	3#10, #10G., 3/4 IN. C.	30A/2P	1,2
AH-7	208V/1PH	30A/2P	LB2-14	3#10, #10G., 3/4 IN. C.	30A/2P	1,2
HPU/ACU-1	208V/1PH	25A/2P	LB2-18	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-2	208V/1PH	15A/2P	LB2-22	3#12, #12G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-3	208V/1PH	30A/2P	LB2-26	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-4	208V/1PH	30A/2P	LB2-30	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-5	208V/1PH	30A/2P	LB2-34	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-6	208V/1PH	30A/2P	LB2-38	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-7	208V/1PH	30A/2P	LB2-42	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-8	208V/1PH	30A/2P	LB2-46	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-9	208V/1PH	25A/2P	LB2-50	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-10	208V/1PH	25A/2P	LB-2	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-11	208V/1PH	15A/2P	LB-6	3#12, #12G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-12	208V/1PH	30A/2P	LB-10	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-13	208V/1PH	30A/2P	LB-44	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-14	208V/1PH	25A/2P	LB-48	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-15	208V/1PH	30A/2P	LB-52	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
HPU/ACU-16	208V/1PH	30A/2P	LB-45	3#10, #10G., 3/4 IN. C.	30A/2P/3R	1,3
PU-1	208V/3PH	80A/3P	LD-2	4#4, #8G., 1 1/4 IN. C.	100A/3P/3R	1,7
PU-2	208V/3PH	80A/3P	LD-8	4#4, #8G., 1 1/4 IN. C.	100A/3P/3R	1,7
PU-3	208V/3PH	45A/3P	LD-14	4#8, #10G., 1 IN. C.	60A/3P/3R	1,7
EF-1	120V	20A/1P	LC-37	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
EF-2	120V	20A/1P	LC-39	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
EF-3	120V	20A/1P	LB2-37	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,6
EF-4	120V	20A/1P	LB2-39	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,6
EF-5	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4
EF-6	120V	CONNECT TO LIGHTS	CONNECT TO LIGHTS	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4
EWH-1	120V	20A/1P	LC-43	2#12, #12G., 3/4 IN. C.	MOTOR RATED SWITCH	1
EWH-2	120V	20A/1P	LB-14	2#12, #12G., 3/4 IN. C.	MOTOR RATED SWITCH	1
WH-1	120V	20A/1P	LC-19	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	
WH-2	120V	20A/1P	LB2-27	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	
RC-1	120V	20A/1P	LC-21	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	
RC-2	120V	20A/1P	LB2-29	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	

NOTES:
1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
2. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION. DETECTOR SHALL BE PROVIDED BY ELECTRICAL AND INSTALLED BY MECHANICAL.
3. INDOOR UNIT POWERED VIA OUTDOOR UNIT.
4. INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. PROVIDE 10 MINUTE TIME DELAY RELAY. PROVIDE UNSWITCHED HOT WIRE TO FAN AND RELAY AT FAN.
5. FAN SHALL BE CONTROLLED BY A TIME CLOCK LOCATED IN W116 RISER ROOM. PROVIDE TIME CLOCK FOR FANS AND WIRE TIME CLOCK PER MANUFACTURERS INSTRUCTIONS.
6. FAN SHALL BE CONTROLLED BY A TIME CLOCK LOCATED IN A107 SUPPORT ROOM. PROVIDE TIME CLOCK FOR FANS AND WIRE TIME CLOCK PER MANUFACTURERS INSTRUCTIONS.
7. UNIT COMES WITH A MANUFACTURERS SUPPLY AIR DUCT SMOKE DETECTOR. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.



KEYED NOTES: (THIS SHEET ONLY)

1. COORDINATE EXACT LOCATION OF REMOTE VOICE EVACUATION MICROPHONE WITH OWNER AND AHJ PRIOR TO ROUGH-IN.
2. PROVIDE FIRE ALARM CONTROL MODULE FOR SOUND SYSTEM OVERRIDE. COORDINATE WITH A/V CONSULTANT.
3. PROVIDE MONITORING OF DOUBLE CHECK VALVE AND POST INDICATOR VALVE FOR FIRE SPRINKLER SYSTEM. FIELD COORDINATE EXACT LOCATION.
4. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED IN CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED HIGH ON WALL FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN.
6. ROUTE VIA IO POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED ADJACENT PANELS. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 1 ON SHEET E2.1. USE #10'S ENTIRE CIRCUIT IN 3/4 IN. C. UNLESS NOTED OTHERWISE. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
7. NEW SIGN. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT PROVIDER. MAKE ALL CHANGES REQUIRED.
8. PROVIDE A 30A/2P/3R FUSED DISCONNECT WITH 3*4, *8G., 1 1/4 IN. C. (INCREASED SIZE FOR VOLTAGE DROP).
9. ROUTE A 1 IN. C. FROM SIGN TO SUPPORT A106 FOR CONTROLS.
10. COORDINATE EXACT LOCATION OF FLOOR BOX WITH OWNER, ARCHITECT, AND A/V CONSULTANT PRIOR TO ROUGH-IN. PROVIDE (1) 3/4 IN. C. FOR POWER AND (1) 1 IN. C. FOR TELE/DATA FROM FLOOR BOX TO STUB UP IN NEAREST WALL.
11. COORDINATE EXACT LOCATION OF SANCTUARY FLOOR BOX WITH OWNER, ARCHITECT, AND A/V CONSULTANT PRIOR TO ROUGH-IN. SEE DETAIL 2/E3.1.

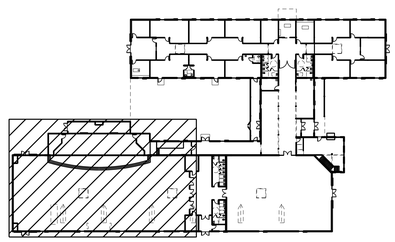


1 / E3.1 PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS

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

0 4' 8'

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN (N.T.S.)

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PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway Madison, Georgia 30650

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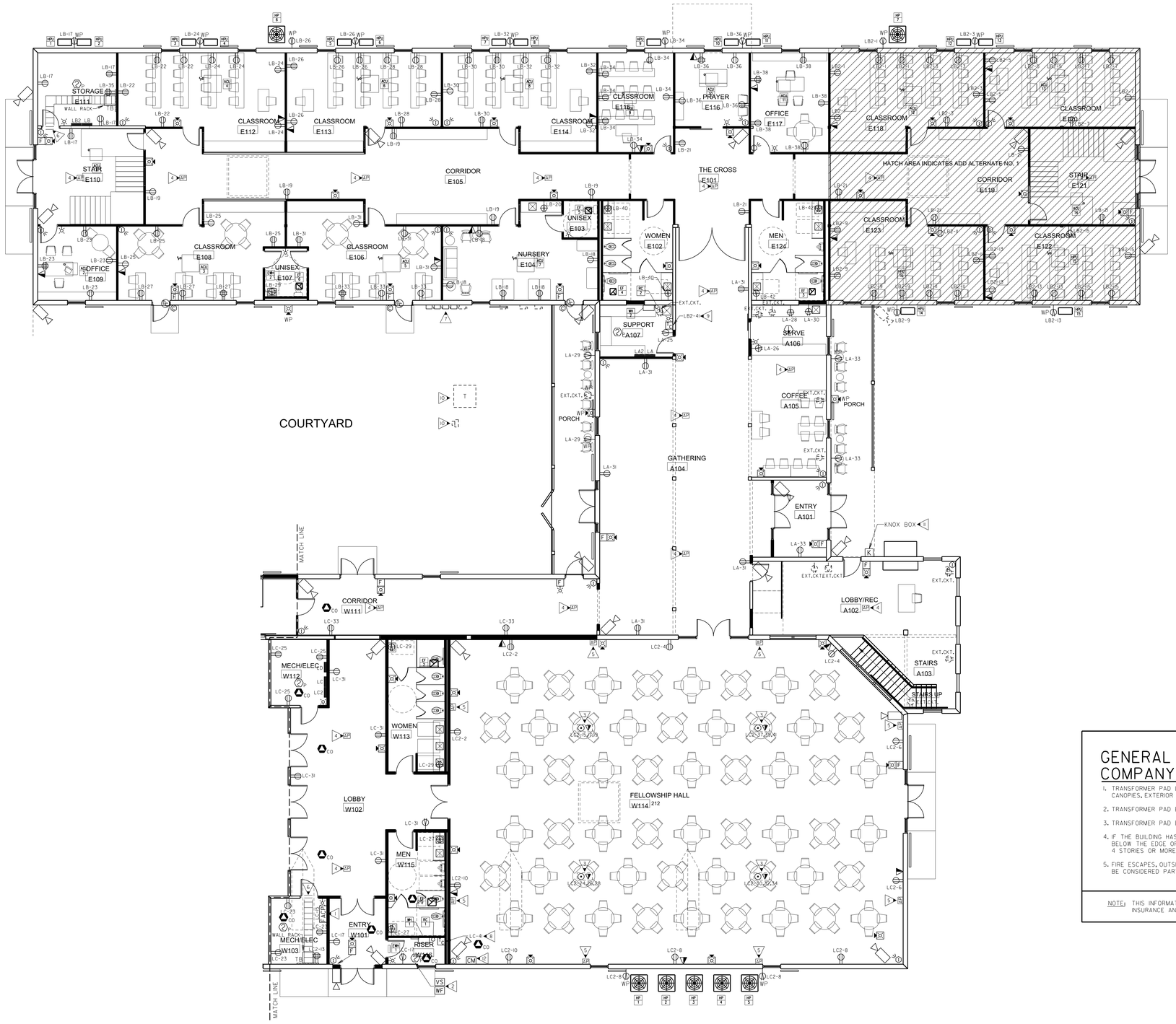
E3.1

OF



KEYED NOTES: (THIS SHEET ONLY)

1. LABEL CIRCUIT BREAKER SERVING FIRE ALARM CONTROL PANEL WITH RED NAME PLATE 'FIRE ALARM CIRCUIT'. LABEL FIRE ALARM CONTROL PANEL WITH CIRCUIT NUMBER SERVING PANEL. PROVIDE HASP LOCK FOR CIRCUIT BREAKER.
2. PROVIDE FIRE ALARM SYSTEM MONITORING MODULES AT ALL FIRE SPRINKLER FLOW AND TAMPER SWITCHES AT FIRE RISER. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH FIRE PROTECTION DRAWINGS.
3. COORDINATE EXACT LOCATION OF EXHIBIT HALL FLOOR BOX WITH OWNER, ARCHITECT, AND A/V CONSULTANT PRIOR TO ROUGH-IN. SEE DETAIL 2/E3.1.
4. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED IN CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED HIGH ON WALL FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN.
6. PROVIDE (3) 4 IN. CONDUIT SLEEVES THRU WALL. COORDINATE EXACT NUMBER OF CONDUIT SLEEVES REQUIRED WITH QUANTITY OF CABLES BEING INSTALLED.
7. SEE NEW POWER RISER DIAGRAM, 1/E5.1.
8. TIMECLOCK TO CONTROL EF-1 AND EF-2. SEE NOTE 5 ON THE MECHANICAL EQUIPMENT POWER SCHEDULE.
9. TIMECLOCK TO CONTROL EF-3 AND EF-4. SEE NOTE 6 ON THE MECHANICAL EQUIPMENT POWER SCHEDULE.
10. NEW LOCATION OF RELOCATED TRANSFORMER AND METER. SEE GENERAL NOTES - LOCATION OF UTILITY COMPANY PAD MOUNTED TRANSFORMER.
11. KNOX REMOTE POWER BOX. COORDINATE FINAL LOCATION WITH OWNER, ARCHITECT, AND AHJ. COORDINATE MOUNTING WITH ARCHITECT.
12. PROVIDE FIRE ALARM CONTROL MODULE FOR SOUND SYSTEM OVERRIDE. COORDINATE WITH A/V CONSULTANT.

GENERAL NOTES: (THIS SHEET ONLY)

A. SEE SHEET E3.1 FOR GENERAL NOTES.

GENERAL NOTES - LOCATION OF UTILITY COMPANY PAD MOUNTED TRANSFORMER:

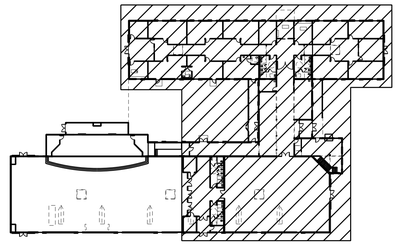
1. TRANSFORMER PAD LOCATIONS SHALL BE A MINIMUM OF 10 FT.-0 IN. FROM ANY BUILDING OVERHANGS, CANOPIES, EXTERIOR WALLS, BALCONY, EXTERIOR STAIRS AND OR WALKWAYS CONNECTED TO THE BUILDING.
2. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 14 FT.-0 IN. FROM ANY DOOR WAY.
3. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 10 FT.-0 IN. FROM ANY WINDOWS OR OTHER OPENINGS.
4. IF THE BUILDING HAS ON OVERHANG THE 10 FT.-0 IN. CLEARANCE SHALL BE MEASURED FROM A POINT BELOW THE EDGE OF THE OVERHANG ONLY IF THE BUILDING IS 3 STORIES OR LESS. IF THE BUILDING IS 4 STORIES OR MORE 10 FT.-0 IN. SHALL BE MEASURED FROM THE OUTSIDE BUILDING WALL.
5. FIRE ESCAPES, OUTSIDE STAIRS, AND COVERED WALKWAYS ATTACHED TO OR BETWEEN BUILDINGS, SHALL BE CONSIDERED PART OF THE BUILDING.

NOTE: THIS INFORMATION HAS BEEN OBTAINED FROM THE NFPA SECTION 450-27 AND THE OFFICE OF INSURANCE AND SAFETY FIRE COMMISSIONER CHAPTER 120-3-3.

PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS

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

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



KEY PLAN (N.T.S.)

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PARTIAL FIRST FLOOR PLAN - POWER & SYSTEMS

Retrofit & Renovations for Madison Methodist Church

Madison, Georgia 30650

1091 Confederate Highway

JOB NO.:	02405
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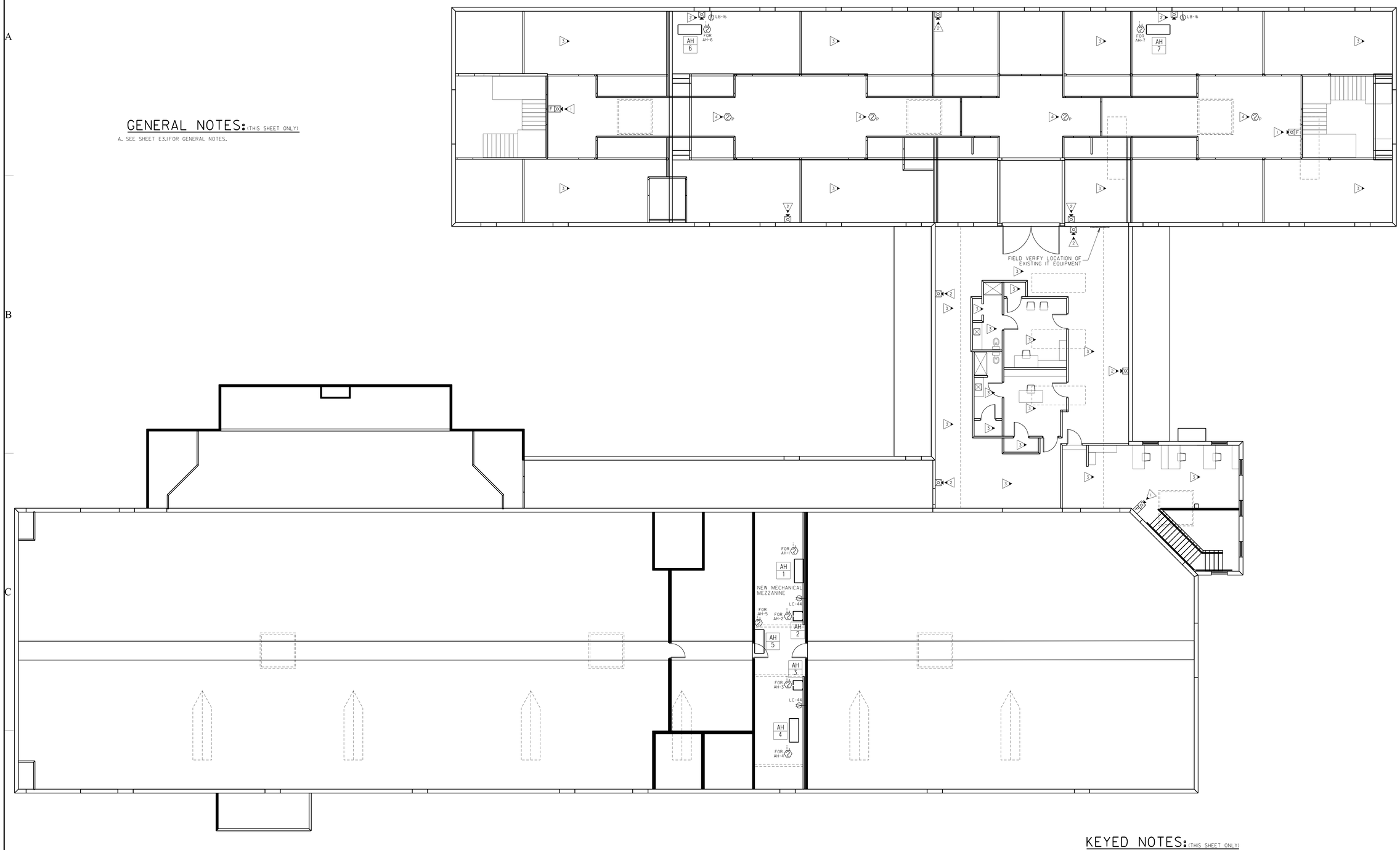
SHEET

E3.2

OF

GENERAL NOTES: (THIS SHEET ONLY)

A. SEE SHEET E3.1 FOR GENERAL NOTES.



KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE NEW FIRE ALARM PULL STATION AND SPEAKER/STROBE AT STAIR LANDING.
2. PROVIDE NEW FIRE ALARM SPEAKER STROBE.
3. NO NEW WORK IN AREA DURING PHASE I UNLESS NOTED OTHERWISE.
4. PROVIDE NEW FIRE ALARM SMOKE DETECTOR AT EXISTING SMOKE DETECTOR LOCATION. INTERLOCK DETECTORS WITH NEW FIRE ALARM SYSTEM.

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

1 / E3.3 SECOND FLOOR PLAN - POWER & SYSTEMS

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

0 4' 8'

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SECOND FLOOR PLAN - POWER & SYSTEMS

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway Madison, Georgia 30650

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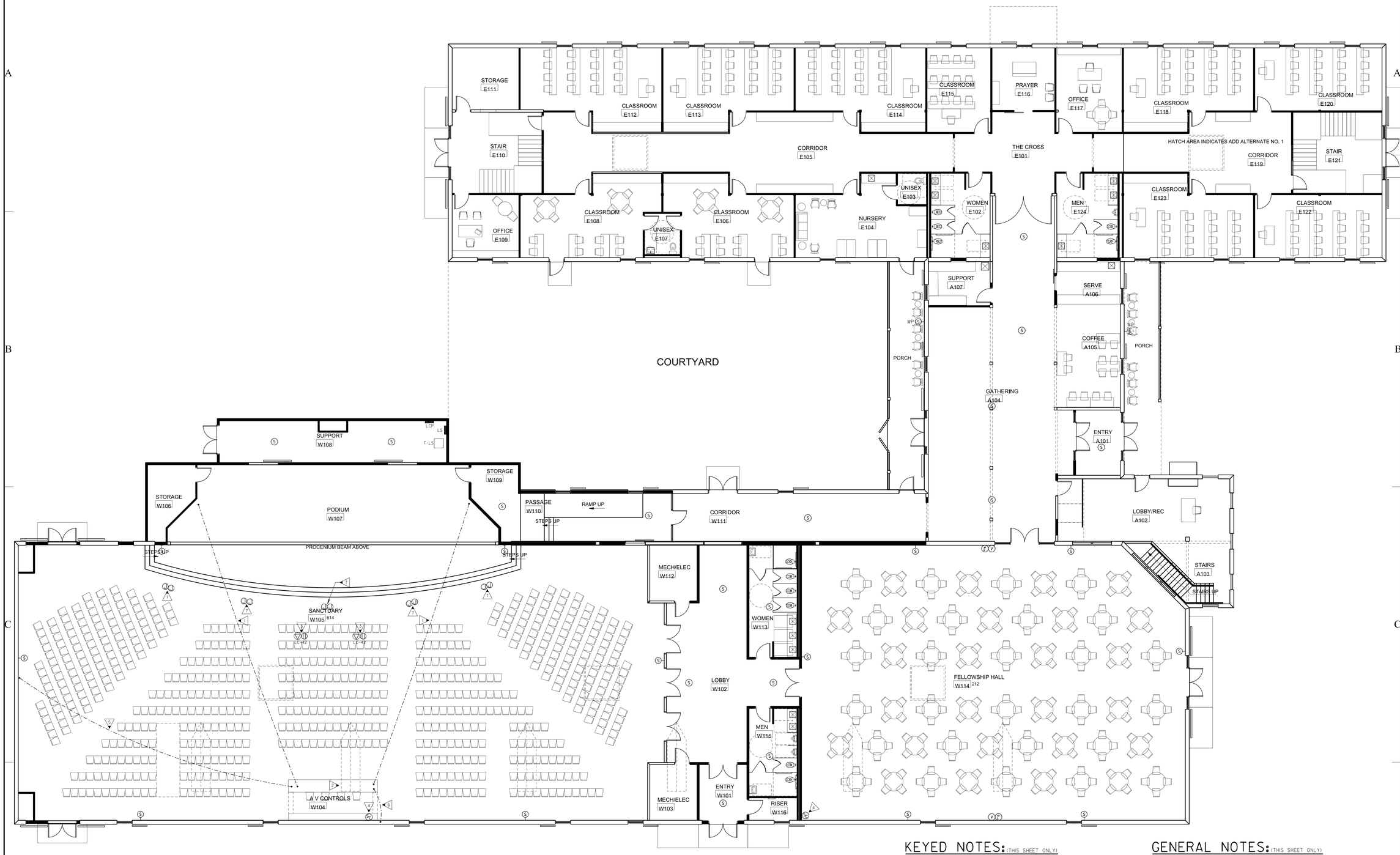
E3.3

OF



NOTE:
THERE IS NOT A SHEET E4.2. THERE IS NO NEW A/V WORK ON THE SECOND FLOOR.

FIRST FLOOR PLAN - A/V SYSTEM

(1 / E4.1)

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

0 4' 8'

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE (2) 4 INCH CONDUITS FROM EACH SIDE OF THE A/V CONTROLS LOCATION TO UNDER RAISED FLOOR SYSTEM. COORDINATE WITH OWNER, ARCHITECT, AND A/V CONSULTANT PRIOR TO ROUGH-IN.
2. COORDINATE WITH OWNER'S A/V CONSULTANT FOR ADDITIONAL ELECTRICAL REQUIREMENTS NEEDED FOR SOUND AND AUDIO SYSTEMS PROVIDED. PROVIDE ALL POWER AND RACEWAY REQUIRED FOR SYSTEM INSTALLATION.
3. PROVIDE CEILING MOUNTED RECEPTACLE AND DATA OUTLET FOR CEILING PROJECTOR. COORDINATE EXACT LOCATION WITH OWNER, ARCHITECT, AND A/V CONSULTANT PRIOR TO ROUGH-IN.
4. COORDINATE EXACT LOCATION OF SOUND CONSOLE WITH A/V CONSULTANT AND OWNER PRIOR TO ROUGH-IN.
5. PROVIDE (2) 4 INCH CONDUITS FROM SIDE OF THE A/V CONTROLS LOCATION TO STUB UP LOCATION NEAR WALL. COORDINATE WITH OWNER, ARCHITECT, AND A/V CONSULTANT PRIOR TO ROUGH-IN. TEMPORARILY CAP ROUGHED IN CONDUIT.
6. PROVIDE (4) 2 INCH CONDUITS FROM SIDE OF THE A/V CONTROLS LOCATION TO STUB UP IN WALL AND FINALLY STUB OUT OF WALL AT CEILING STRUCTURE. COORDINATE WITH OWNER, ARCHITECT, AND A/V CONSULTANT PRIOR TO ROUGH-IN.
7. PROVIDE (2) J-BOXES FOR FUTURE THEATRICAL LIGHTING BY A/V CONSULTANT. (1) J-BOX FOR POWER AND (1) J-BOX FOR CONTROLS. PROVIDE 3/4 IN. C. FROM POWER J-BOX TO PANEL "LS". PROVIDE 3/4 IN. C. FROM CONTROLS BOX TO THEATER LIGHTING CONTROLS. COORDINATE EXACT REQUIREMENTS AND LOCATIONS WITH OWNER, ARCHITECT, AND A/V CONSULTANT PRIOR TO ROUGH-IN.

GENERAL NOTES: (THIS SHEET ONLY)

A. SEE SHEET E3.1 FOR GENERAL NOTES.

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FIRST FLOOR PLAN - A/V SYSTEM

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SHEET

E4.1

OF

VOLTAGE	120	208									LOCATION	SUPPORT A107
PHASE 3 WIRE 4				PANEL		LA-EX					MOUNTING	SURFACE
BUS AMPS	400			MAIN AMPS		400					MAIN	BREAKER

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
AIR HANDLING UNIT				30	2	1	A	2	2	20				1" RIDING ARENA
						3	B	4						
AIR HANDLING UNIT				30	2	5	C	6	2	20				1" RIDING ARENA
						7	A	8						
2" RIDING ARENA				20	2	9	B	10	2	20				BUSTING RING
						11	C	12						
2" RIDING ARENA				20	2	13	A	14	2	20				H.I.D.
						15	B	16						
1" RIDING ARENA				20	2	17	C	18	2	50				OVER STALLS A/C
						19	A	20						
1" RIDING ARENA				20	2	21	B	22	2	50				OVER STALLS A/C
						23	C	24						
1" REC IN 5 STALLS				20	1	25	A	26	1	20				1" CONTACTOR EXT. LTG.
HEATER IN RINK				20	1	27	B	28	1	20				1" CONTACTOR EXT. LTG.
1" LIGHTS IN 5 STALLS				20	1	29	C	30	1	20				1" TIME CLOCK EXT. LTG.
1" HEATER OVER STALLS				20	1	31	A	32	1	20				1" TIME CLOCK CUPOLAS
1" LTG. HALL & CONTACT				20	1	33	B	34	1	20				RECEPT. IN RIDING
HEATER IN RINK				20	1	35	C	36	1	20				RINK
				225	3	37	A	38	3	200				
						39	B	40						
						41	C	42						
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: EXISTING PANEL TO BE MODIFIED. SEE SCHEDULE LA-MOD FOR MODIFICATIONS TO EXISTING PANEL.
1* EXISTING BREAKER TO BECOME A SPARE TO BE REUSED. VERIFY LOAD ON EXISTING BREAKER IS REMOVED.
2* EXISTING BREAKERS TO BE REMOVED FOR NEW TVSS

VOLTAGE	120	208									LOCATION	STORAGE E111
PHASE 3 WIRE 4				PANEL		LB2					MOUNTING	SURFACE
BUS AMPS	400			MAIN AMPS		400					MAIN	LUGS

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
CLASSROOM E118	1000			20	1	1	A	2	2	25			1186	HP-6
CLASSROOM E118		1000		20	1	3	B	4				1186		
CLASSROOM E120			800	20	1	5	C	6	2	25	1186			HP-7
CLASSROOM E120	800			20	1	7	A	8					1186	
CLASSROOM E123		1000		20	1	9	B	10	2	30		2272		AH-6
CLASSROOM E123			800	20	1	11	C	12			2272			
CLASSROOM E122	1000			20	1	13	A	14	2	30			2272	AH-7
CLASSROOM E122		800		20	1	15	B	16				2272		
SPARE				20	1	17	C	18	2	25	1498			HPU / ACU-1
SPARE				20	1	19	A	20					1498	
SPARE				20	1	21	B	22	2	15		749		HPU / ACU-2
SPARE				20	1	23	C	24			749			
SPARE				20	1	25	A	26	2	30			1664	HPU / ACU-3
WH-2		500		20	1	27	B	28				1664		
RC-2			44	20	1	29	C	30	2	30	1664			HPU / ACU-4
SPARE				20	1	31	A	32					1664	
SPARE				20	1	33	B	34	2	30		1664		HPU / ACU-5
SPARE				20	1	35	C	36			1664			
EF-3	128			20	1	37	A	38	2	30			1664	HPU / ACU-6
EF-4		128		20	1	39	B	40				1664		
MECH TIME CLOCK			500	20	1	41	C	42	2	30	1664			HPU / ACU-7
SPACE					1	43	A	44					1664	
SPACE					2	45	B	46	2	30		1664		HPU / ACU-8
						47	C	48			1664			
SPACE					3	49	A	50	2	25			1498	HPU / ACU-9
						51	B	52			1498			
						53	C	54	1					SPACE
TOTALS	2928	3428	2144								12361	14633	14296	

VOLT AMPS — BUS A 17224 — BUS B 18061 — BUS C 14505 — TOTAL 49790

REMARKS: 20,000 AIC RATING MINIIMUM
SECTION 2 OF 2
54 POLE PANEL

VOLTAGE	120	208									LOCATION	SUPPORT W108
PHASE 3 WIRE 4				PANEL		LS					MOUNTING	SURFACE
BUS AMPS	150			MAIN AMPS		150					MAIN	BREAKER

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
SPARE				20	1	1	A	2	1	20				SPARE
SPARE				20	1	3	B	4	1	20				SPARE
SPARE				20	1	5	C	6	1	20				SPARE
SPARE				20	1	7	A	8	1	20				SPARE
SPARE				20	1	9	B	10	1	20				SPARE
SPARE				20	1	11	C	12	1	20				SPARE
SPARE				20	1	13	A	14	1	20				SPARE
SPARE				20	1	15	B	16	1	20				SPARE
SPARE				20	1	17	C	18	1	20				SPARE
SPARE				20	1	19	A	20	1	20				SPARE
SPARE				20	1	21	B	22	1	20				SPARE
SPARE				20	1	23	C	24	1	20				SPACE
SPARE				20	1	25	A	26	2					
SPARE				20	1	27	B	28						
SPARE				20	1	29	C	30	2					SPACE
SPACE					1	31	A	32						
SPACE					1	33	B	34	2					SPACE
SPACE					1	35	C	36						
SPACE					1	37	A	38	3	60				TVSS
SPACE					1	39	B	40						
SPACE					1	41	C	42						
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: 12,000 AIC RATING MINIIMUM
PANEL FOR A/V EQUIPMENT
PROVIDE ISOLATED GROUND BUS IN ADDITION TO EQUIP GROUND BUS

VOLTAGE	120	208									LOCATION	SUPPORT W108
PHASE 3 WIRE 4				PANEL		LCP					MOUNTING	SURFACE
BUS AMPS	60			MAIN AMPS		60					MAIN	LUGS

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
SANCTUARY LIGHTS	800			20	1	1	A	2	1	20			700	** SANCTUARY EMERG.
SANCTUARY LIGHTS		800		20	1	3	B	4	1	20				SPARE
SANCTUARY LIGHTS			1300	20	1	5	C	6	1	20				SPARE
PODIUM LIGHTS	400			20	1	7	A	8	1	20				SPARE
CUPOLA LIGHTS		260		20	1	9	B	10	1	20				SPARE
SPARE				20	1	11	C	12	1	20				SPARE
TOTALS	1200	1060	1300								0	0	700	

VOLT AMPS — BUS A 1900 — BUS B 1060 — BUS C 1300 — TOTAL 4260

REMARKS: LIGHTING CONTROL RELAY PANEL
PROVIDE BREAKER AND SWITCHING RELAY FOR EACH POLE
** PROVIDE HASP LOCK FOR BREAKER

VOLTAGE	120	208									LOCATION	SUPPORT A107
PHASE 3 WIRE 4				PANEL		LA2-EX					MOUNTING	SURFACE
BUS AMPS	225			MAIN AMPS		225					MAIN	LUGS

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
WATER HEATER				40	2	1	A	2	2	20				SEWAGE PUMP
						3	B	4						
SEWAGE PUMP				20	1	5	C	6	1	20				BR
BR				20	1	7	A	8	1	20				
REC.				20	1	9	B	10	2	50				
WASHER				20	1	11	C	12						
2 TON OUTDOOR				30	2	13	A	14	1	20				
						15	B	16	1	20				
				30	2	17	C	18	1	20				
						19	A	20	1	20				
				20	2	21	B	22	1	20				
						23	C	24	1	20				DRYER
				20	1	25	A	26	1	20				OFFICE
				20	1	27	B	28	1	20				
				20	1	29	C	30	1	20				
				20	1	31	A	32	1	20				
				20	1	33	B	34	2	20				
				20	1	35	C	36						
2 TON AHU				30	2	37	A	38	2	20				PUMP FOR ARENA
						39	B	40						
TACK ROOM				20	1	41	C	42	1	20				LTS. WASH STALLS
TOTALS	0	0	0								0	0	0	

VOLT AMPS — BUS A 0 — BUS B 0 — BUS C 0 — TOTAL 0

REMARKS: EXISTING PANEL TO REMAIN.

VOLTAGE	120	208									LOCATION	MECH/ELEC W112
PHASE 3 WIRE 4				PANEL		LC					MOUNTING	SURFACE
BUS AMPS	400			MAIN AMPS		400					MAIN	LUGS

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
A/V FLR BOX	400			20	1	1	A	2	1	20			800	STAGE RECEPT.
A/V FLR BOX		400		20	1	3	B	4	1	20		600		STAGE RECEPT.
A/V FLR BOX			400	20	1	5	C	6	1	20	600			STAGE RECEPT.
LOBBY LIGHTS	830			20	1	7	A	8	1	20			600	STAGE RECEPT.
CORRIDOR LIGHTS		360		20	1	9	B	10	1	20		600		STAGE RECEPT.
FELLOWSHIP LIGHTS			1250	20	1	11	C	12	1	20	800			STAGE RECEPT.
FELLOWSHIP LIGHTS	875			20	1	13	A	14	1	20			800	SUPPORT RECEPT.
*** FACP		500		20	1	15	B	16	1	20		400		STORAGE RECEPT.
RISER RECEPT.			400	20	1	17	C	18	1	20	400			STORAGE RECEPT.
WH-1	500			20	1	19	A	20	1	20			400	STAGE FLR BOX
RC-1		44		20	1	21	B	22	1	20		400		STAGE FLR BOX
MECH / ELEC. RECEPT.			600	20	1	23	C	24	1	20	400			STAGE FLR BOX
MECH / ELEC. RECEPT.	600			20	1	25	A	26	1	20			400	STAGE FLR BOX
MEN RR RECEPT.		400		20	1	27	B	28	1	20		400		STAGE FLR BOX
WOMEN RR RECEPT.			400	20	1	29	C	30	1	20	400			A/V FLR BOX
LOBBY RECEPT.	1200			20	1	31	A	32	1	20			400	A/V FLR BOX
CORRIDOR RECEPT.		800		20	1	33	B	34	1	20		400		A/V FLR BOX
SUPPORT RECEPT.			600	20	1	35	C	36	1	20	400			A/V FLR BOX
EF-1	47			20	1	37	A	38	1	20			400	A/V FLR BOX
EF-2		47		20	1	39	B	40	1	20		400		A/V FLR BOX
MECH TIME CLOCK			500	20	1	41	C	42	1	20	1000			PROJECTORS
EWH-1	1500			20	1	43	A	44	1	20			400	MEZZANINE RECEPT.
SPARE				20	1	45	B	46	1	20				SPARE
SPARE				20	1	47	C	48	1	20				SPARE
TVSS				60	3	49	A	50	1	20				SPARE
						51	B	52	1	20				SPARE
						53	C	54	1	20				SPARE
TOTALS	5952	2551	4150								4000	3200	4200	

VOLT AMPS — BUS A 16862 — BUS B 14211 — BUS C 15090 — TOTAL 46163

REMARKS: 20,000 AIC RATING MINIIMUM
SECTION 1 OF 2
PROVIDE FEED THRU LUGS
54 POLE PANEL
*** LABEL CIRCUIT PER NEC 2020 FOR FIRE ALARM CONTROL. PROVIDE HASP LOCK FOR BREAKER.

VOLTAGE	120	208									LOCATION	MECH/ELEC W112
PHASE 3 WIRE 4				PANEL		LC2					MOUNTING	SURFACE
BUS AMPS	400			MAIN AMPS		400					MAIN	LUGS

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
SANCTUARY RECEPT.	600			20	1	1	A	2	1	20			400	FELLOWSHIP RECEPT.
SANCTUARY RECEPT.		600		20	1	3	B	4	1	20		400		FELLOWSHIP RECEPT.
SANCTUARY RECEPT.			400	20	1	5	C	6	1	20	400			FELLOWSHIP RECEPT.
SANCTUARY RECEPT.	400			20	1	7	A	8	1	20			800	FELLOWSHIP RECEPT.
SANCTUARY RECEPT.		600		20	1	9	B	10	1	20		400		FELLOWSHIP RECEPT.
SANCTUARY RECEPT.			400	20	1	11	C	12	1	20				SPARE
TB	500			20	1	13	A	14	1	20				SPARE
FELLOWSHIP FLR BOX		400		20	1	15	B	16	1	20				SPARE
FELLOWSHIP FLR BOX			400	20	1	17	C	18	1	20				SPARE
FELLOWSHIP FLR BOX	400			20	1	19	A	20	1	20				SPARE
TIME CLOCK		500		20	1	21	B	22	1	20		500		SANCTUARY LIGHTS
EXTERIOR DOWNLIGHTS			100	20	1	23	C	24	1	20	400			FELLOWSHIP FLR BOX
EXTERIOR SCONCES	120			20	1	25	A	26	1	20			400	FELLOWSHIP FLR BOX
WALL PACKS		300		20	1	27	B	28	1	20		400		FELLOWSHIP FLR BOX
WALL PACKS			240	20	1	29	C	30	1	20	400			FELLOWSHIP FLR BOX
WALL PACKS	390			20	1	31	A	32	1	20			400	FELLOWSHIP FLR BOX
SIGN		2500		20	1	33	B	34	1	20		400		FELLOWSHIP FLR BOX
			2500	20	1	35	C	36	2					SPACE
FELLOWSHIP FLR BOX	400			20	1	37	A	38						
FELLOWSHIP FLR BOX		400		20	1	39	B	40	2					SPACE
FELLOWSHIP FLR BOX			400	20	1	41	C	42						
SPACE					1	43	A	44	3	60			1900	PANEL LCP
SPACE					1	45	B	46				1060		
SPACE					1	47	C	48			1300			
SPACE					3	49	A	50	3	150				PANEL LS
						51	B	52	1					
						53	C	54						
TOTALS	2810	5300	4440								2500	3160	3900	

VOLT AMPS — BUS A 6710 — BUS B 8460 — BUS C 6940 — TOTAL 22110

REMARKS: 20,000 AIC RATING MINIIMUM
SECTION 2 OF 2
54 POLE PANEL

VOLTAGE	120	208									LOCATION	STORAGE E111
PHASE 3 WIRE 4				PANEL		LA-NEW					MOUNTING	SURFACE
BUS AMPS	400			MAIN AMPS		400					MAIN	BREAKER

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
AIR HANDLING UNIT				30	2	1	A	2	2	20				SPARE
						3	B	4						
AIR HANDLING UNIT				30	2	5	C	6	2	20				SPARE
						7	A	8						
4" TVSS				60	3	9	B	10	2	20				BUSTING RING
						11	C	12						
						13	A	14	2	20				H.I.D.
SPACE					1	15	B	16	1	20				
SPARE				20	2	17	C	18	2	50				OVER STALLS A/C
						19	A	20						
SPARE				20	2	21	B	22	2	50				OVER STALLS A/C
						23	C	24						
3" STORAGE RECEPT.	200			20	1	25	A	26	1	20			200	3" SERVE RECEPT.
HEATER IN RINK				20	1	27	B	28	1	20		200		3" SERVE RECEPT.
3" EXTERIOR RECEPT.			400	20	1	29	C	30	1	20	200			3" SERVE RECEPT.
3" GATHERING RECEPT.	1000			20	1	31	A	32	1	20				3" SERVE RECEPT.
3" EXTERIOR RECEPT.		600		20	1	33	B	34	1	20				RECEPT. IN RIDING
HEATER IN RINK				20	1	35	C	36	1	20				RINK
				225	3	37	A	38	3	200				
						39	B	40						
						41	C	42						
TOTALS	1200	600	400								200	200	200	

VOLT AMPS — BUS A 1400 — BUS B 800 — BUS C 600 — TOTAL 2800

REMARKS: EXISTING PANEL WITH MODIFICATIONS.
3* NEW LOAD ON EXISTING SPARE BREAKER
4* PROVIDE NEW 60A/3P BREAKER FOR NEW TVSS.
MATCH EXISTING BREAKER A/C RATING AND TYPE.

VOLTAGE	120	208									LOCATION	STORAGE E111
PHASE 3 WIRE 4				PANEL		LB					MOUNTING	SURFACE
BUS AMPS	400			MAIN AMPS		400					MAIN	LUGS

DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
** CORRIDOR LIGHTS	1020			20	1	1	A	2	2	25			1498	HPU / ACU-10
** CUPOLA LIGHTS		260		20	1	3	B	4				1498		
** STAIR E121 LIGHTS			280	20	1	5	C	6	2	15	749			HPU / ACU-11
** STAIR E110 LIGHTS	280			20	1	7	A	8				749		
CLASSROOM LIGHTS		1140		20	1	9	B	10	2	30			1664	HPU / ACU-12
CLASSROOM LIGHTS			1000	20	1	11	C	12			1664			
CLASSROOM LIGHTS	770			20	1	13	A	14	1	20			1500	EWH-2
CLASSROOM LIGHTS		650		20	1	15	B	16	1	20		400		MEZZANINE RECEPT.
STORAGE RECEPT.			1000	20	1	17	C	18	1	20	1000			NURSERY E104
CORRIDOR RECEPT.	1000			20	1	19	A	20	1	20			200	NURSERY E104 CNTR.
CORRIDOR RECEPT.		1200		20	1	21	B	22	1	20		800		CLASSROOM E112
OFFICE RECEPT.			1000	20	1	23	C	24	1	20	1000			CLASSROOM E112
CLASSROOM E108	800			20	1	25	A	26	1	20			1200	CLASSROOM E113
CLASSROOM E108		800		20	1	27	B	28	1	20		800		CLASSROOM E113
BATHROOM RECEPT.			200	20	1	29	C	30	1	20	800			CLASSROOM E114
CLASSROOM E106	800			20	1	31	A	32	1	20			1000	CLASSROOM E114
CLASSROOM E106		800		20	1	33	B	34	1	20		1400		CLASSROOM E115
TB			500	20	1	35	C	36	1	20	1200			PRAYER RECEPT.
SPARE				20	1	37	A	38	1	20			600	OFFICE RECEPT.
SPARE				20	1	39	B	40	1	20		400		WOMEN RR RECEPT.
SPARE				20	1	41	C	42	1	20	400			MEN RR RECEPT.
SPARE				20	1	43	A	44	2	30			1664	HPU / ACU-13
HPU / ACU-16		1664		30	2	45	B	46				1664		
		1664				47	C	48	2	25	1498			HPU / ACU-14
TVSS				60	3	49	A	50				1498		
						51	B	52	2	30		1664		HPU / ACU-15
						53	C	54			1664			
TOTALS	4670	6514	5644								9975	10290	9909	

VOLT AMPS — BUS A 31803 — BUS B 34865 — BUS C 30124 — TOTAL 96792

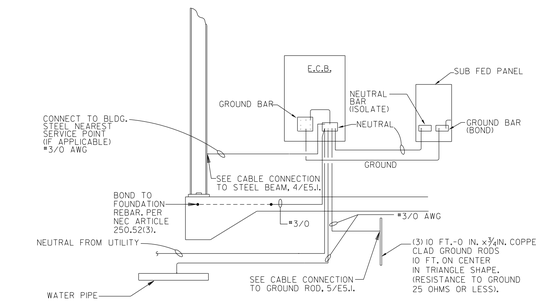
REMARKS: 20,000 AIC RATING MINIIMUM
SECTION 1 OF 2
PROVIDE FEED THRU LUGS
54 POLE PANEL
** PROVIDE HASP LOCK FOR BREAKER

VOLTAGE	120	208									LOCATION	MECH/ELEC W112
PHASE 3 WIRE 4				PANEL		LD					MOUNTING	SURFACE
BUS AMPS	400			MAIN AMPS		400					MAIN	LUGS

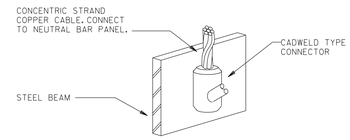
DESCRIPTION	VOLT AMPS			BRKR		CKT	BUS	CKT	BRKR		VOLT AMPS			DESCRIPTION
	A	B	C	AMP	P	NO	CONN	NO	P	AMP	C	B	A	
HP-1	2808			50	2	1	A	2	3	80			6624	PU-1
		2808				3	B	4				6624		
HP-2			2808	50	2	5	C	6			6624			
	2808					7	A	8	3	80			6624	PU-2
HP-3		2808		50	2	9	B	10			6624			
			2808			11	C	12			6624			
HP-4	2808			50	2	13	A	14	3	45			3072	PU-3
		2808				15	B	16				3072		
HP-5			2808	50	2	17	C	18			3072			
	2808					19	A	20	2	60			4293	AH-5
AH-1		4293		60	2	21	B	22				4293		
			4293			23	C	24	1	20				SPARE
AH-2	4293			60	2	25	A	26	2					SPACE
		4293				27	B	28						
AH-3			4293	60	2	29	C	30	2					SPACE
	4293					31	A	32						
AH-4		4293		60	2	33	B	34	2					SPACE
			4293			35	C	36						
TVSS				60	3	37	A	38	3					SPACE
						39	B	40						
						41	C	42						
TOTALS	19818	21303	21303								16320	20613	20613	

VOLT AMPS — BUS A 40431 — BUS B 41916 — BUS C 37623 — TOTAL 119970

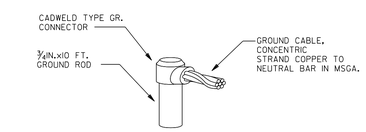
REMARKS: 20,000 AIC RATING MINIIMUM



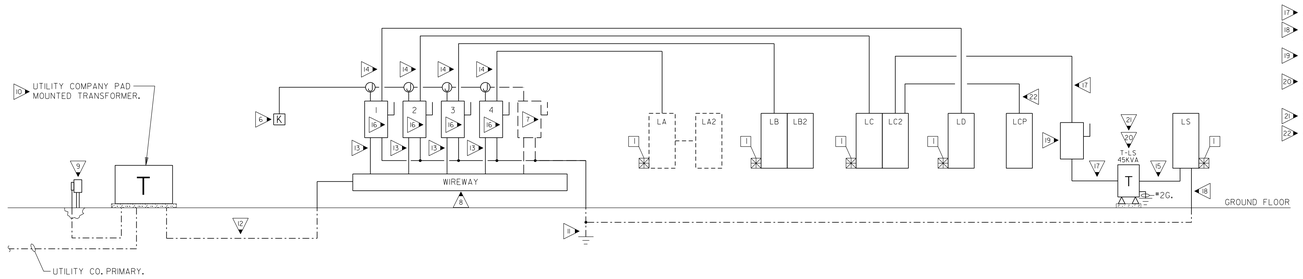
3 / E5.1 BUILDING GROUNDING
NOT TO SCALE



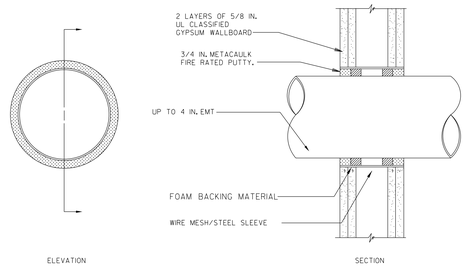
4 / E5.1 CABLE CONNECTION TO STEEL BEAM
NOT TO SCALE



5 / E5.1 CABLE CONNECTION TO GROUND ROD
NOT TO SCALE



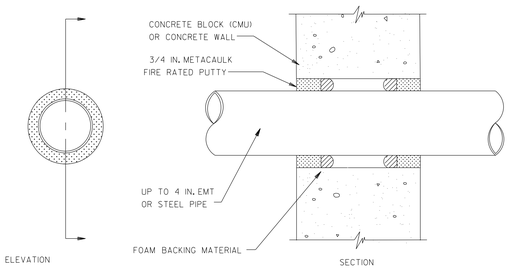
ALPHA BLDG SET 05-16-2025



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

5 / E5.2 DETAIL - GYPSUM WALLBOARD PENETRATION

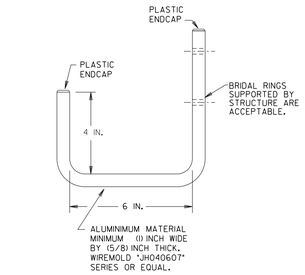
NOT TO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

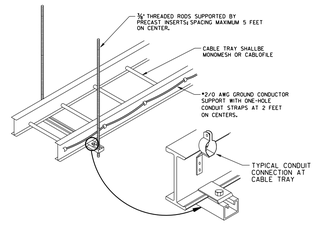
6 / E5.2 DETAIL - CONCRETE WALL PENETRATION

NOT TO SCALE



2 / E5.2 J-HOOK DETAIL

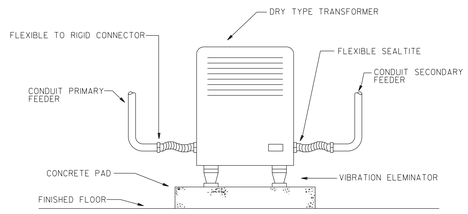
NOT TO SCALE



3 / E5.2 LADDER CABLE TRAY

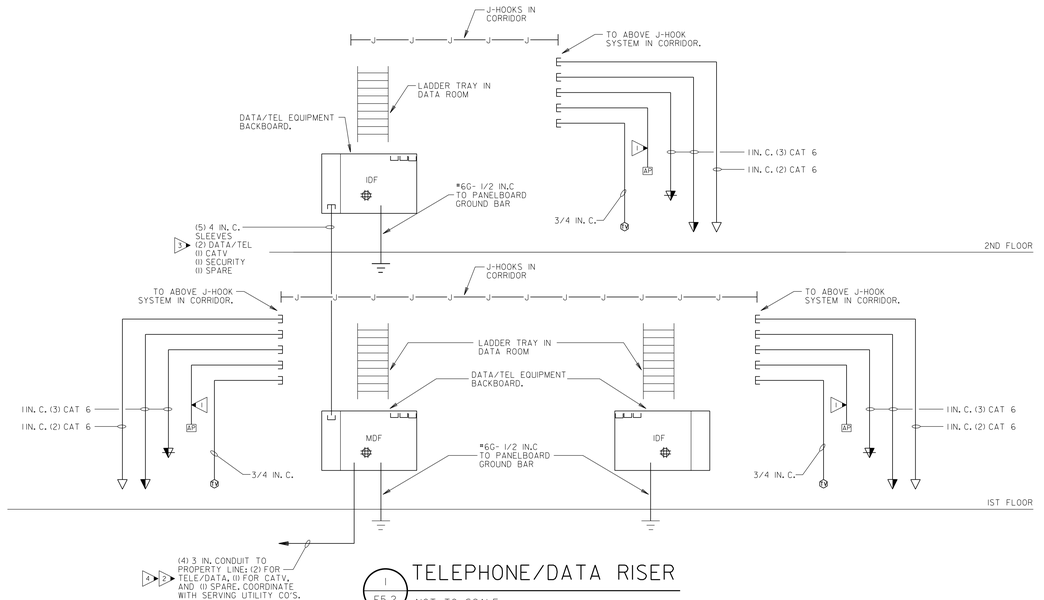
NOT TO SCALE SYMBOL:

NOTE: LADDER TRAY ONLY IN LOCATIONS SPECIFICALLY NOTED.



4 / E5.2 FLOOR MOUNTED TRANSFORMER

NOT TO SCALE



1 / E5.2 TELEPHONE/DATA RISER

NOT TO SCALE

KEYED NOTES: (DETAIL 1/E5.2)

1. PROVIDE (2) CAT 6A IN 1IN. C. TO BISCUIT JACK FLUSH MOUNTED IN CEILING FOR WIRELESS AP. WIRELESS ACCESS POINT PROVIDED BY OTHERS.
2. PROVIDE (2) - 3 IN. CONDUITS FOR DATA/TEL AND (1) SPARE CONDUIT. (1) CONDUIT FOR (1) 50 PAIR EXTERIOR RATED, GEL FILLED COPPER CAT 6E. (1) CONDUIT FOR 12 STRAND MULTIMODE FIBER AND 12 STAND SINGLEMODE FIBER EACH IN INNERDUCT. COORDINATE WITH OWNER FOR EXACT FIBER SPECIFICATIONS AND TERMINATIONS. COORDINATE EXACT DATA/TEL STUB OUT LOCATIONS AT DEMARC WITH SERVING UTILITY COMPANIES.
3. FROM MDF (FIRST FLOOR) TO IDF ON SECOND FLOOR: DATA; 6-STRAND FIBER MULTIMODE/6-STRAND FIBER SINGLEMODE IN INNERDUCT. TEL; 25 PAIR COPPER CABLE TO SECOND FLOOR, RISER RATED. CATV; SPARE CONDUIT FOR CABLING BY OTHERS. SECURITY; SPARE CONDUIT FOR CABLING BY OTHERS. SPARE; SPARE CONDUIT FOR FUTURE USE.
4. PROVIDE (1) - 3 IN. CONDUIT WITH PULL STRING FOR CATV SYSTEM. COORDINATE EXACT STUB OUT LOCATION AT STREET WITH SERVING UTILITY COMPANY.

GENERAL NOTES: (DATA CABLING)

1. ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS WILL BE REQUIRED FOR NETWORK CABLING. PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
2. ALL JACKS SHALL BE PROVIDED WITH ICON DENOTING DATA OR VOICE OUTLET. OUTLET SHALL BE LABELED WITH FOLLOWING NOMENCLATURE.
   - D M XXX
     - XXX — JACK NUMBER
     - M — MDF OR IDF DESIGNATION FROM WHICH JACK IS SERVED.
     - D OR V INDICATING VOICE OR DATA OUTLET.

   ALL PATCH PANELS AND IIO BLOCKS SHALL BE CORRESPONDINGLY LABELED.
3. PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL CABLING AT BACKBOARDS.
4. REFER TO 1/8IN. PLANS SHOWING OUTLET LOCATIONS, PANEL LOCATIONS, CEILING TYPES, ETC.
5. GROUND ALL RACKS WITH #6 COPPER LOCATED AT EACH BACKBOARD. CONTRACTOR SHALL ROUTE #6G, 3/8IN. C. TO GROUND PLATE. PROVIDE 12 IN. CABLE RUNWAY SPANNING FROM TOP OF RACK TO WALL AND TURNED UP TO ABOVE DROP TILE CEILING IN ORDER TO ROUTE CABLE TO RACK. AT EACH RACK LOCATION PROVIDE A 3/8IN.x4 FT.x8 FT. BACKBOARD PAINTED WITH TWO COATS OF BLACK FIRE RETARDANT PAINT.
6. TY-WRAPS SHALL NOT BE CINCHED DOWN TIGHT ENOUGH TO DEFORM CABLES. MAINTAIN MINIMUM BEND RADIUS ON FIBER, TIE CABLES, STATION WIRES, AND PATCH CORDS.
7. REFER TO SPECIFICATIONS FOR CABLING. ALL CABLING SHALL BE PLENUM RATED.
8. PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY FASHION.
9. FIELD VERIFY MOUNTING SPACE IN DATA RACK ROOM. PROVIDE WALL MOUNTED RACKS WHERE NECESSARY.
10. CABLING FOR COMPUTER DATA SHALL BE ROUTED VIA CABLE TRAY SYSTEM. PROVIDE CONDUIT TO 6 IN. ABOVE ACCESSIBLE CEILING. BUNDLE CABLES. SLEEVE THROUGH CORRIDOR WALL USING 4 IN.C.
11. NETWORK HUBS AND ELECTRONICS, RACK MOUNTED UPS, PATCH CORDS AND FIBER OPTIC PATCH CORDS ARE INCLUDED IN CONTRACT.
12. REFER TO POWER SHEETS FOR ADDITIONAL INFORMATION.
13. SEE WIRE MANAGEMENT NOTES.

WIRE MANAGEMENT NOTES

NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL J-HOOK SYSTEM IN THE CORRIDORS WITH ACCESSIBLE CEILINGS FOR LOW VOLTAGE CABLING.

B. ALL J- HOOKS SHALL BE SPACED NO MORE THAN 48 INCHES APART AND NO MORE THAN 12 INCHES FROM THE CORNER OF ANY SPACE.

C. PROVIDE J-HOOKS NO MORE THAN 12 INCHES AWAY FROM CONDUIT SLEEVES.

D. WHERE J-HOOKS ARE (2) ROWS; SPACING BETWEEN THE ROWS SHALL BE 12 INCHES.

E. CONDUIT SLEEVES SHALL BE AT THE SAME LEVEL AS THE ROWS OF J-HOOKS.

F. FIRE SEAL AROUND ALL CONDUIT SLEEVES. SEE ARCHITECTURAL SHEET FOR REQUIRED RATINGS.

G. COORDINATE THE EXACT LEVEL OF J-HOOKS AND CONDUIT SLEEVES WITH OTHER TRADES PRIOR TO ROUGHING.

H. J-HOOKS SHALL NOT BE SUPPORTED BY GYPSUM WALL BOARD. J-HOOKS SHALL BE SUPPORTED BY BLOCK WALL OR STUD. SEE ARCHITECTURAL PLAN FOR WALL MATERIALS.

I. ALL CABLING SHALL BE NEATLY BUNDLED UTILIZING "NOT A CINCH" TYPE RATED VELCRO TIE WRAPS.

J. J-HOOKS SHALL SUPPORT CABLING FOR; FIRE ALARM, DATA, TELEPHONE, CATV, SECURITY, AND SOUND.

K. ONE ROW SHALL SUPPORT SOUND SYSTEM CABLING, ONE ROW SHALL SUPPORT DATA/TELEPHONE CABLING, ONE ROW SHALL SUPPORT CATV CABLING, ONE ROW SHALL SUPPORT FIRE ALARM SYSTEM, ONE ROW SHALL SUPPORT SECURITY SYSTEM.

L. SEE DETAIL - CONCRETE WALL PENETRATION, 6/E5.2.

M. SEE DETAIL - GYPSUM WALLBOARD PENETRATION, 5/E5.2.

N. WHERE J-HOOKS ARE SHOWN ABOVE SOLID SOFFITS MORE THAN TWO FEET WIDE, PROVIDE J-HOOKS HUNG FROM STRUCTURE (4 HOOKS PRE 3/8 IN THREADED ROD.

O. PROVIDE (2) 2 INCH CONDUIT SLEEVES INTO ALL SPACES FROM CORRIDOR WHERE RATED WALLS OCCUR.

SERVICE DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	651,775		
LIGHTING	14,675	1.25	18,344
HVAC	185,062	1.00	185,062
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	128	1.25	160
MOTOR LOAD	222	1.00	222
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	43,600	0.50	21,800
WATER HEATER	1,088	1.00	1,088
MISC LOADS	55,000	1.00	55,000
PANEL LA/LA2 (WORST CASE)	144,000	1.00	144,000
PANEL LS (WORST CASE)	54,000	1.00	54,000
FUTURE 2ND FLR PANEL (400A ESTIMATE)	144,000	1.00	144,000
DEMAND LOAD - VOLT-AMPERES			**633,676**
DEMAND LOAD - 208V 3-PHASE AMPS			**1760.2**

SERVICE IS SIZED/RATED FOR 2000 AMPS.

LB/LB2 DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	96,792		
LIGHTING	5,400	1.25	6,750
HVAC	63,592	1.00	63,592
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	128	1.25	160
MOTOR LOAD	128	1.00	128
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	16,000	0.50	8,000
WATER HEATER	544	1.00	544
MISC LOADS	1,000	1.00	1,000
DEMAND LOAD - VOLT-AMPERES			**90,174**
DEMAND LOAD - 208V 3-PHASE AMPS			**250.5**

PANEL IS SIZED/RATED FOR 400 AMPS.

LC/LC2 DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	100,513		
LIGHTING	9,275	1.25	11,594
HVAC	1,500	1.00	1,500
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	47	1.25	59
MOTOR LOAD	47	1.00	47
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	17,600	0.50	8,800
WATER HEATER	544	1.00	544
MISC LOADS	7,500	1.00	7,500
PANEL LS (WORST CASE)	54,000	1.00	54,000
DEMAND LOAD - VOLT-AMPERES			**94,044**
DEMAND LOAD - 208V 3-PHASE AMPS			**261.2**

PANEL IS SIZED/RATED FOR 400 AMPS.

LD DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	119,970		
LIGHTING	0	1.25	0
HVAC	119,970	1.00	119,970
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	0	1.25	0
MOTOR LOAD	0	1.00	0
RECEPTACLE (FIRST 10,000 VA)	0	1.00	0
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	0	1.00	0
MISC LOADS	0	1.00	0
DEMAND LOAD - VOLT-AMPERES			**119,970**
DEMAND LOAD - 208V 3-PHASE AMPS			**333.3**

PANEL IS SIZED/RATED FOR 400 AMPS.

COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Retrofit & Renovations for Madison Methodist Church
Project Type: Alteration

Construction Site: 1091 Confederate Highway, Madison, GA 30650
Owner/Agent:
Designer/Contractor: Electrical Design Consultants, 175 New Street, Suite 1, Macon, GA 31201

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Religious Building	29215	1.00	29215
		Total Allowed Watts =	29215

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Religious Building (29215 sq.ft.)				
A1: A1: 2 FT. X 4 FT. TROFFER: LED Panel 54W:	1	2	49	98
A2: A2: 2 FT. X 4 FT. TROFFER: LED Panel 40W:	1	83	40	3320
A3: A3: 2 FT. X 4 FT. TROFFER: LED Panel 33W:	1	69	32	2208
B1: B1: 2 FT. X 2 FT. TROFFER: LED Panel 41W:	1	12	41	492
B2: B2: 2 FT. X 2 FT. TROFFER: LED Panel 36W:	1	5	35	175
B3: B3: 2 FT. X 2 FT. TROFFER: LED Panel 33W:	1	4	27	108
C1: C1: 4 FT. SURFACE MOUNT WRAP: LED Other Fixture Unit 50W:	1	15	49	735
C2: C2: 4 FT. SURFACE MOUNT WRAP: LED Other Fixture Unit 36W:	1	5	35	175
D: D: 4 IN. DOWNLIGHT: LED Other Fixture Unit 6.5W:	1	36	9	324
E: E: 4 FT. STRIP LIGHT: LED Other Fixture Unit 40W:	1	8	42	336
F: F: 30 IN. ARCHITECTURAL PENDANT: Other:	1	10	130	1300
G: G: 6 IN. SURFACE PANEL: LED Other Fixture Unit 13W:	1	6	14	84
H: H: 30 IN. ARCHITECTURAL PENDANT: Other:	1	5	130	650
J: J: 4 FT. WALL FIXTURE: LED Other Fixture Unit 40W:	1	4	40	160
K: K: 6 IN. DOWNLIGHT: LED Other Fixture Unit 13W:	1	36	11	396
L: L: 6 IN. CYLINDER: LED Other Fixture Unit 28W:	1	109	29	3161
		Total Proposed Watts =		13722

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Insoection Checklist.

Jeffrey H. McGee, PE — Name - Title — Signature — 12/02/2024 Date

COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Retrofit & Renovations for Madison Methodist Church
Project Type: Alteration
Exterior Lighting Zone: 2 (Residential mixed use area (LZ2))

Construction Site: 1091 Confederate Highway, Madison, GA 30650
Owner/Agent:
Designer/Contractor: Electrical Design Consultants, 175 New Street, Suite 1, Macon, GA 31201

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Front Door (Main entry)	6 ft of door	20	Yes	120
Porch (Entry canopy)	710 ft2	0.25	Yes	178
Building Exterior (Walkway < 10 feet wide)	1050 ft of	0.7	Yes	735
		Total Tradable Watts (a) =		1032
		Total Allowed Watts =		1032
		Total Allowed Supplemental Watts (b) =		600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Front Door (Main entry 6 ft of door width): Tradable Wattage				
OB: OB: ARCHITECTURAL SCONCE: LED Other Fixture Unit 60W:	1	2	60	120
Porch (Entry canopy 710 ft2): Tradable Wattage				
OA: OA: 6 IN RETROFIT DOWNLIGHT: LED Other Fixture Unit 13W:	1	7	14	98
Building Exterior (Walkway < 10 feet wide 1050 ft of walkway length): Tradable Wattage				
OC: OC: BUILDING WALL PACK: LED Other Fixture Unit 16W:	1	30	16	480
OD: OD: BUILDING WALL PACK: LED Other Fixture Unit 36W:	1	12	36	432
		Total Tradable Proposed Watts =		1130

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE — Name - Title — Signature — 12/02/2024 Date

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ARCHITECT — STAMP INVALID UNLESS SIGNED

CONSULTANT — NOT FOR CONSTRUCTION — STAMP INVALID UNLESS SIGNED

ELECTRICAL DESIGN CONSULTANTS, INC.
175 NEW ST.,STE.1
MACON, GA 31201
EDC- M24085

10641 HIGHWAY 36
COVINGTON, GA 30014
770.786.3031

ELECTRICAL DETAILS & COMCHECK REPORTS

Retrofit & Renovations for Madison Methodist Church

1091 Confederate Highway — Madison, Georgia 30650

JOB NO.:	02405
DRAWN BY:	TW
CHECKED BY:	JM
DESCRIPTION:	SCH-REVIEW-P1
DATE:	00.00.24
DESCRIPTION:	DD-REVIEW
DATE:	00.00.24
DESCRIPTION:	CD-REVIEW DOCS
DATE:	12.02.24
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.24

REVISIONS:

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SHEET

E5.2

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