BALDWIN ROOFING CO.

NEW OFFICE BUILDING

1500 94TH AVENUE NORTH,
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No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP/MM
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
COVER SHEET & DRAWING INDEX

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G-001

PERMIT SET - 5/30/2025

ABBREVIATIONS

A/C	AIR CONDITIONING	EQ	EQUAL	MC	MEDICINE CABINET	S	SOUTH
AAP	ALARM ANNUNCIATOR PANEL	EQUIP	EQUIPMENT	MDF	MEDIUM DENSITY FIBERBOARD	SAF	SELF ADHERED FLASHING
ABV	ABOVE	EST	ESTIMATE	MDO	MEDIUM DENISTY OVERLAY	SAN	SANITARY
AC	ALTERNATING CURRENT	EWC	ELECTRIC WATER COOLER	MECH	MECHANIC(AL)	SB	SETBACK
ACC	ACCESSIBLE	EXH	EXHAUST	MED	MEDIUM	SC	SOLID CORE
ACOUS	ACOUSTIC(AL)	EXP	EXPANSION	MEMB	MEMBRANE	SCHED	SCHEDULE
ACT	ACOUSTICAL CEILING TILE	EXIST OR (E)	EXISTING	MET	METAL	SEAL	SEALANT
AD	AREA DRAIN	EXT	EXTERIOR	MEZZ	MEZZANINE	SECT	SECTION
ADJ	ADJACENT OR ADJUSTABLE	EXTG	EXISTING	MFC	MINERAL FIBER CEMENT	SERV	SERVICE(S)
ADP	ADAPTABLE	FA	FIRE ALARM	MFG	MANUFATURING	SF	SQUARE FOOT, SQUARE FEET
AFF	ABOVE FINISH FLOOR	FAC	FACTORY	MFR	MANUFACTURER(R)	SGD	SLIDING GLASS DOOR
AGGR	AGGREGATE	FACP	FIRE ALARM CONTROL PANEL	MH	MANHOLE	SGL	SINGLE
AHU	AIR HANDLING UNIT	FAU	FORCED AIR UNIT	MIN	MINIMUM	SH	SINGLE HUNG
ALT	ALTERNATE	FBR	FABRIC	MIR	MIRROR	SHLVG	SHELVING
ALUM	ALUMINUM	FC	FLOOR CLOSER	MISC	MISCELLANEOUS	SHT	SHEET
APPL	APPLIANCE	FCU	FAN COIL UNIT	MLDG	MOULDING	SHTG	SHEATHING
APPROX	APPROXIMATE	FD	FLOOR DRAIN	MO	MASONRY OPENING	SHWR	SHOWER
ARCH	ARCHITECT (URE) (URAL)	FDN	FOUNDATION	MOD	MODIFIED	SIM	SIMILAR
ASPH	ASPHALT	FE	FIRE EXTINGUISHER	MTD	MOUNTED	SKYLT	SKYLIGHT
ASSY	ASSEMBLY	FEC	FIRE EXTINGUISHER CABINET	MTL	METAL	SL	SLOPE
AUTO	AUTOMATIC	FF	FINISH FLOOR OR FACTORY FINISH	MULL	MULLED, MULLION	SLDG	SLIDING
BA	BATHROOM	FG	FINISH GRADE	N	NORTH	SLDR	SLIDING DOOR
BD	BOARD	FGL	FIBERGLASS	N/A	NOT APPLICABLE	SOV	SHUTOFF VALVE
BET	BETWEEN	FH	FIRE HYDRANT	NAT	NATURAL	SP	SPACE
BITUM	BITUMINOUS	FHC	FIRE HOSE CABINET	NC	NONCOMBUSTIBLE	SPEC	SPECIFICATIONS
BLDG	BUILDING	FIN	FINISH(ED)	NG	NATURAL GRADE	SQ	SQUARE
BLK or BLKG	BLOCK, BLOCKING	FL	FLOOR	NIC	NOT IN CONTRACT	SS	STAINLESS STEEL
BLW	BELOW	FLASH	FLASHING	NO OR #	NUMBER	ST	STAIN
BO	BOTTOM OF	FLSK	FLOOR SINK	NOM	NOMINAL	STA	STATION
BOH	BACK OF HOUSE	FLUOR	FLUORESCENT	NR	NONRATED	STD	STANDARD
BOL	BOLLARD	FO	FACE OF	NTS	NOT TO SCALE	STL	STEEL
BR	BEDROOM	FOBL	FACE OF BRICK LEDGE	Ø	DIAMETER OR ROUND	STO	STONE
BRG	BEARING	FOC	FACE OF CONCRETE	O/	OVER	STOR	STORAGE
BSMT	BASEMENT	FOF	FACE OF FINISH	OA	OVERALL	STRUCT	STRUCTURE (AL)
BUR	BUILT-UP-ROOFING	FOM	FACE OF MASONRY	OBS	OBSCURE	SUSP	SUSPENDED
CAB	CABINET	FOS	FACE OF STUD	OC	ON CENTER	SW	SOLID WOOD
CB	CATCH BASIN	FOW	FACE OF WALL	OCC	OCCUPANCY OR OCCUPANTS	SYM	SYMMETRICAL
CEM	CEMENT	FPL	FIREPLACE	OD	OUTSIDE OR OVERALL DIAMETER	SYMB	SYMBOL
CER	CERAMIC	FPRF	FIRE PROOF	OFD	OVERFLOW DRAIN	T	TOILET
CG	CORNER GUARD	FR	FIRE RATED	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	T&G	TONGUE & GROOVE
CIP	CAST IN PLACE	FR	FRENCH - SEE BELOW	OFF	OFFICE	TB	TOWEL BAR
CIPC	CAST IN PLACE CONCRETE	FRDR	FRENCH DOOR	OFOI	OWNER FURNISHED OWNER INSTALLED	TCA	TILE COUNCIL OF AMERICA
CIR	CIRCLE	FRM	FRAME	OHC	OVERHEAD CABINET	TD	TURF DRAIN
CJ	CONTROL JOINT	FRMG	FRAMING	OP	OPAQUE	TEL	TELEPHONE
CL	CENTERLINE	FRP	FIBERGLASS REINFORCED PLASTIC	OPNG	OPENING	TEMP	TEMPERED
CLKG	CAULKING	FRT	FIRE RETARDANT TREATED WOOD	OPP	OPPOSITE	TER	TERRAZO
CLO	CLOSET	FS	FINISH SURFACE OR FULL SIZE	OPR	OPERABLE	TERR	TERRACE
CLR	CLEAR / CLEARANCE	FT or '	FEET or FOOT	OPT	OPTIONAL	TOG	TOP OF GRATE
COM	COMMON	FTG	FOOTING	OSA	OUTSIDE AIR	TOGC	TOP OF GYPCRETE
CMU	CONCRETE MASONRY UNIT	FURR	FURRING	PAN	PANTRY	THK	THICK(NESS)
CNTR	COUNTER	FUT	FUTURE	PAR	PARAPET	THRU	THROUGH
CO	CLEAN OUT OR CASED OPENING	FX	FIXED	PAV	PAVING	TO	TOP OF
COL	COLUMN	GA	GAUGE	PUB	PUBLIC	TOPL	TOP OF PLATE
CONC	CONCRETE	GA	GAUGE	PB	PUSH BUTTON	TO STL	TOP OF STEEL
CONN	CONNECTION	GALV	GALVANIZED	PBR	PANIC BAR	TO SLAB	TOP OF SLAB
CONST	CONSTRUCTION	GAR	GARAGE	PC(S)	PIECE OR PIECES	TOS	TOP OF SHEATHING
CONT	CONTINUOUS	GB	GRAB BAR	PD	PLANTER DRAIN	TOW	TOP OF WALL
CONT	CONTINUOUS/CONTINUE	GFCI	GROUND FAULT CIRCUIT INTERUPTER	PDR	POWDER ROOM	TOM	TOP OF MASONRY
CONTD	CONTINUED	GFRC	GLASS FIBER REINFORCED CONCRETE	PEN	PENETRATION	TOC	TOP OF CONCRETE OR CURB
COR	CORRIGATED	GFRG	GLASS FIBER REINFORCED GYPSUM	PERF	PERFORATE(D)	TOD	TOP OF DECK OR TRANSIT ORIENTED DEVELOPMENT
CORR	CORRIDOR	GL	GLASS / GLAZING	PERP	PERPENDICULAR	TOF	TOP OF FINISH
CPT	CARPET	GLB	GLUE LAMINATED BEAM	PH	PANIC HARDWARE	TR	TREAD
CS	CONCRETE SEALER	GND	GROUND	PL	PROPERTY LINE OR PLATE	TRANS	TRANSLUCENT
CSMT	CASEMENT	GR	GRADE(ING)	PLAM	PLASTIC LAMINATE	TRSM	TRANSOM
CT	CERAMIC TILE	GSM	GALVANIZED SHEET METAL	PLAS	PLASTER	TV	TV
CTR	CENTER	GWB	GYPSUM WALL BOARD	PLMB	PLUMBING	TYP	TYPICAL
CTSK	COUNTERSINK	GYP	GYPSUM	PLYWD	PLYWOOD	UL	UNDERWRITER'S LABORATORY
CL	CENTERLINE	GYP BD	GYSUM BOARD	PNL	PANEL	UNFIN	UNFINISHED
DR	DRAIN	H	HIGH	POC	POINT OF CONNECTION	UNO	UNLESS NOTED OTHERWISE
DBL	DOUBLE	HB	HOSE BIB	POS	POINT OF SALE	UPH	UPHOLSTERY
DC	DIRECT CURRENT	HC	HOLLOW CORE	PR	PAIR	UR	URINAL
DEG	DEGREE	HDBD	HARDBOARD	PRCST	PRECAST	UTIL	UTILITY
DEPT	DEPARTMENT	HDR	HEADER	PREFAB	PREFABRICATED	VAN	VAN ACCESSIBLE STALL
D	DEPTH	HDRL	HANDRAIL	PREP	PREPARATION	VAR	VARIES
DET	DETAIL	HDWD	HARDWOOD	PROJ	PROJECT(ING), (ION)	VCT	VINYL COMPOSITION TILE
DF	DRINKING FOUNTAIN	HDWR	HARDWARE	PROP	PROPERTY	VENT	VENT(ILATION)
DH	DOUBLE HUNG	HM	HOLLOW METAL	PT	PRESSURE TREATED, POINT OR POST TENSIONED	VERT	VERTICAL
DIA	DIAMETER	HOR	HORIZONTAL	PTD	PAINTED	VEST	VESTIBLE
DIAG	DIAGONAL	HP	HIGH POINT	PTN	PARTITION	VIF	VERIFY IN FIELD
DIM	DIMENSION	HR	HOUR	PV	PHOTOVOLTAIC	VNL	VINYL
DISP	DISPENSER	HRE	HANDRAIL EXTENSION	PRIV	PRIVATE	VNR	VENEER
DIV.	DIVERTER	HT	HEIGHT	PVC	POLYVINYL CHLORIDE	VT	VINYL TILE
DIV	DIVISION	HVAC	HEATING VENTILATING & AIR CONDITIONING	QT	QUARRY TILE	VTR	VENT THROUGH ROOF
DMR	DIMMER	ID	INSIDE DIAMETER	R	RISER	VWC	VINYL WALL COVERING
DN	DOWN	IN or "	INCH	RAD	RADIUS	W	WEST
DO	DOOR OPENING	INCL	INCLUDE	RAG	RETURN AIR GRILL	W/	WITH
DR	DOOR	INSUL	INSULATE(D), (TION)	RB	RESILIENT BASE	W/O	WITHOUT
DS	DOWNSPOUT	INT	INTERIOR	RC	RESILIENT CHANNEL	WC	WATER CLOSET
DSP	DRY STANDPIPE	J OR JST	JOIST	RCP	REFLECTED CEILING PLAN	WD	WOOD
DTL	DETAIL	JAN	JANITOR	RD	ROOF DRAIN OR ROAD	WDB	WOOD BASE
DW	DISHWASHER	JT	JOINT	RE	REFER TO	WDF	WOOD FLOOR
DWG	DRAWING	KD	KNOCKDOWN	REF	REFERENCE	WDW	WINDOW
DWR	DRAWER	KIT	KITCHEN	REFR	REFRIGERATOR	WG	WIRE GLASS
E	EAST	LAM	LAMINATE OR LAMINATED	REG	REGULAR	WH	WATER HEATER
EA	EACH	LAV	LAVATORY	REINF	REINFORCE(D), (ING)	WHH	WINDOW HEAD HEIGHT
EDS	EMERGENCY DIRECTIONAL SIGNAGE	LB or #	POUND	REQ	REQUIRED	WIC	WALK-IN CLOSET
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	LF	LINEAR FEET	RESIL	RESILIENT	WIN	WINDOW
EJ	EXPANSION JOINT	LIN	LINEN	REV	REVISION	WO	WHERE OCCURS OR WALL OVEN
EL	ELEVATION	LKR	LOCKER	RVS	REVERSE	WP	WORK POINT
ELEC	ELECTRICAL	LT	LIGHT	RFG	ROOFING	WTRPRF	WATERPROOF(ING)
ELEV	ELEVATOR	LTWT	LIGHT WEIGHT	RGTR	REGISTER	WR	WATER RESISTANT
EMER	EMERGENCY	LVR	LOUVER	RM	ROOM	WRB	WEATHER RESISTANT BARRIER
ENCL	ENCLOSED	MAINT	MAINTENANCE	RO	ROUGH OPENING	WS	WATER SOFTENER
EOS	EDGE OF SLAB	MAT	MATERIAL	ROW	RIGHT OF WAY	WSCT	WAINSCOT
EP	ELECTRICAL PANEL	MAX	MAXIMUM	RQMTS	REQUIREMENTS	WT	WEIGHT
EPBD	ELECTRICAL PANELBOARD	MBA	MASTER BATHROOM	RS	ROUGH SAWN	YD	YARD
EPS	EXPANDED POLYSTYRENE	MBR	MASTER BEDROOM	RWL	RAIN WATER LEADER		

SYMBOL LEGEND

A-101
- DRAWING NUMBER
- GROUP NUMBER
- DISCIPLINE

01 — DOOR NUMBER

01 — WINDOW TYPE

SPACE / 101 — ROOM MARK
- ROOM NAME
- ROOM NUMBER

1 / A-201 — ENLARGED DETAIL MARK
- DETAIL NUMBER
- SHEET NUMBER

1 / 4 A-201 2 / 3 — INTERIOR ELEVATION MARK
- ELEVATION NUMBER
- SHEET NUMBER

1 / A-201 — INTERIOR ELEVATION MARK
- ELEVATION NUMBER
- SHEET NUMBER

1 / A-201 — SECTION MARK
- SECTION NUMBER
- SHEET NUMBER

1 / A-201 — SECTION MARK
- SECTION NUMBER
- SHEET NUMBER

1 — REVISION CLOUD AND RELATED NUMBER

X'-X" — DIMENSION LINE

℄ — CENTER LINE

1 — SHEET NOTE

1 — PARTITION TYPE MARK

±0" — ELEVATION DATUM

LINE TYPE LEGEND

- OBJECT LINE
- HIDDEN LINE
- OVERHEAD LINE
- ACCESSIBILITY CLEARANCE
- CENTERLINE
- GRID LINE
- MACHINE / MACHINE — MACHINE
- ACOUSTIC BATT INSULATION

HATCH LEGEND

- CONCRETE HATCH
- DRYWALL AND STUCCO HATCH
- DROPPED CEILING, RE: MECHANICAL
- GRAB BAR BACKING PER ICC A117.1 REQUIREMENTS
- METAL ROOF
- CONCRETE MASONRY UNIT - RUNNING
- VERTICAL METAL PANELING

GENERAL PROJECT NOTES

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DO NOT scale drawings. The contractor shall use dimensions shown on the drawings and/or actual field conditions. If conflicts occur, notify the Architect.

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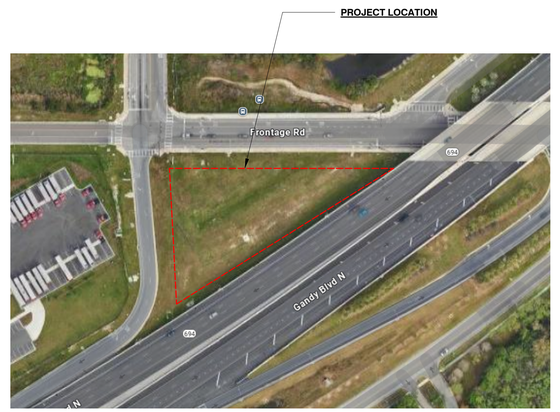
Questions regarding the content and design intent of these drawings made during any phases of the project will NOT be accepted in verbal communication format. All questions must be directed through the General Contractor. Questions will only be answered after the General Contractor has submitted the question in writing (or electronic mail) in the format of a Request for Information (RFI).

The General Contractor and subcontractors, shall be responsible for occupational safety (according to all local, state, and federal regulations) and conditions of the jobsite, during construction until completion of the project. The General Contractor shall indemnify the Owner and Architect, and Architect's Consultants harmless for the injury or death of persons or the damage or loss of property caused by the negligence of the General Contractor, his agents, personnel, employees, or sub-contractors.

Each Contractor and or sub-contractor shall be responsible for damages to adjacent work and shall repair and or replace damages at his own expense and not at the expense of the Owner.

VICINITY MAP



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No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP/MM
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ABBREVIATIONS & GRAPHIC SYMBOLS

SHEET NO:
G-002

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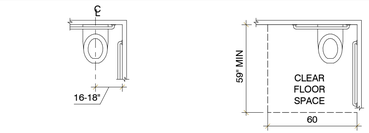
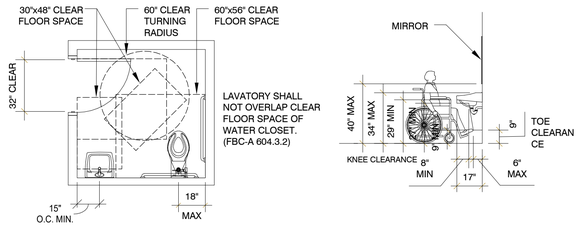
ADA RESTROOM CLEARANCES

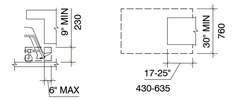




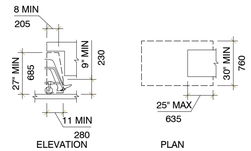
BATHROOM CLEAR SPACES
* ALL PIPES TO BE INSULATED AND SURFACES TO BE FINISHED AT KNEE SPACES

LAVATORY ACCESSIBILITY
* ALL PIPES TO BE INSULATED AND SURFACES TO BE FINISHED AT KNEE SPACES

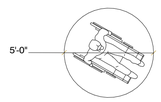
ADA TOE CLEARANCES



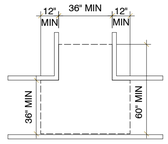
ADA KNEE CLEARANCES



WHEELCHAIR CLEARANCES

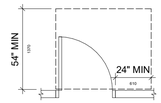


WHEELCHAIR TURNING AREA
60" DIAMETER SPACE

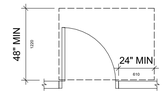


WHEELCHAIR TURNING AREA
T-SHAPED SPACE FOR 180 DEGREE TURNS

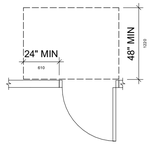
REQUIRED DOOR CLEARANCES



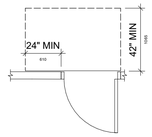
LATCH APPROACH
PULL SIDE, DOOR PROVIDED WITH CLOSER



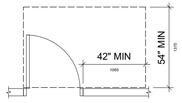
LATCH APPROACH
PULL SIDE



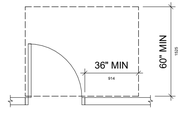
LATCH APPROACH
PUSH SIDE, DOOR PROVIDED WITH CLOSER



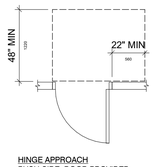
LATCH APPROACH
PUSH SIDE



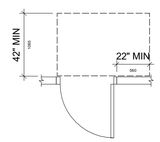
HINGE APPROACH
PULL SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH



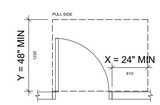
HINGE APPROACH
PULL SIDE



HINGE APPROACH
PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH



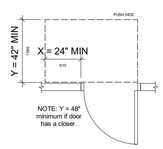
HINGE APPROACH
PUSH SIDE



NOTE: Y = 54" minimum if door has a closer.

All doors in alcoves shall comply with clearances for front approaches.

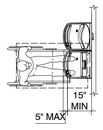
SIDE APPROACH
PULL SIDE



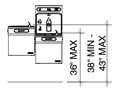
NOTE: Y = 48" minimum if door has a closer.

SIDE APPROACH
PUSH SIDE

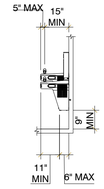
DRINKING FOUNTAINS



DRINKING FOUNTAIN SPOUT LOCATION

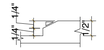


DRINKING FOUNTAIN CLEAR FLOOR SPACE FRONT APPROACH



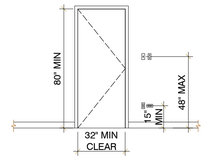
DRINKING FOUNTAIN SPOUT LOCATION, KNEE AND TOE CLEARANCES

CHANGE IN LEVEL



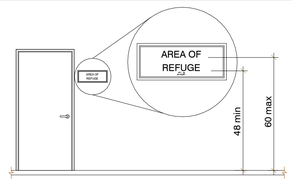
DOOR THRESHOLD

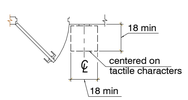
DOOR SIZE, OUTLETS/SWITCHES/CONTROLS LOCATIONS

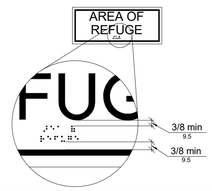


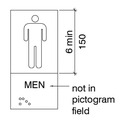
DOOR SIZES, AND LOCATIONS FOR ELECTRICAL OUTLETS, LIGHT SWITCHES, AND OTHER ENVIRONMENTAL CONTROLS

SIGNAGE INSTALLATION HEIGHT AND LOCATION

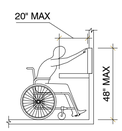


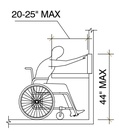


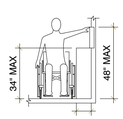


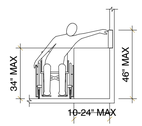


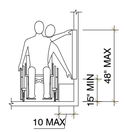
ADA REACH RANGES

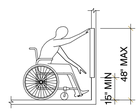




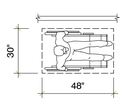




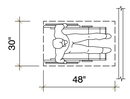




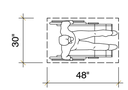
ADA APPROACHES, CLEAR FLOOR & GROUND SPACES



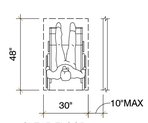
PARALLEL APPROACH



FORWARD APPROACH

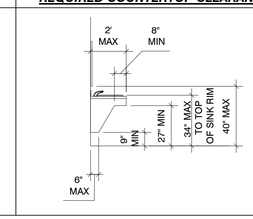


CLEAR FLOOR OR GROUND SPACE



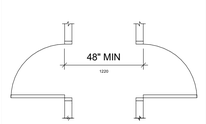
CLEAR FLOOR SPACE - PARALLEL APPROACH

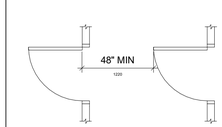
REQUIRED COUNTERTOP CLEARANCES

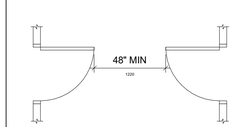


REQUIRED DOOR CLEARANCES

DOORS IN A SERIES







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ERICA AZORIN CRAIG
FL REG. NO. AR101635

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BALDWIN ROOFING CO
ROOFING CO

BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:

24006

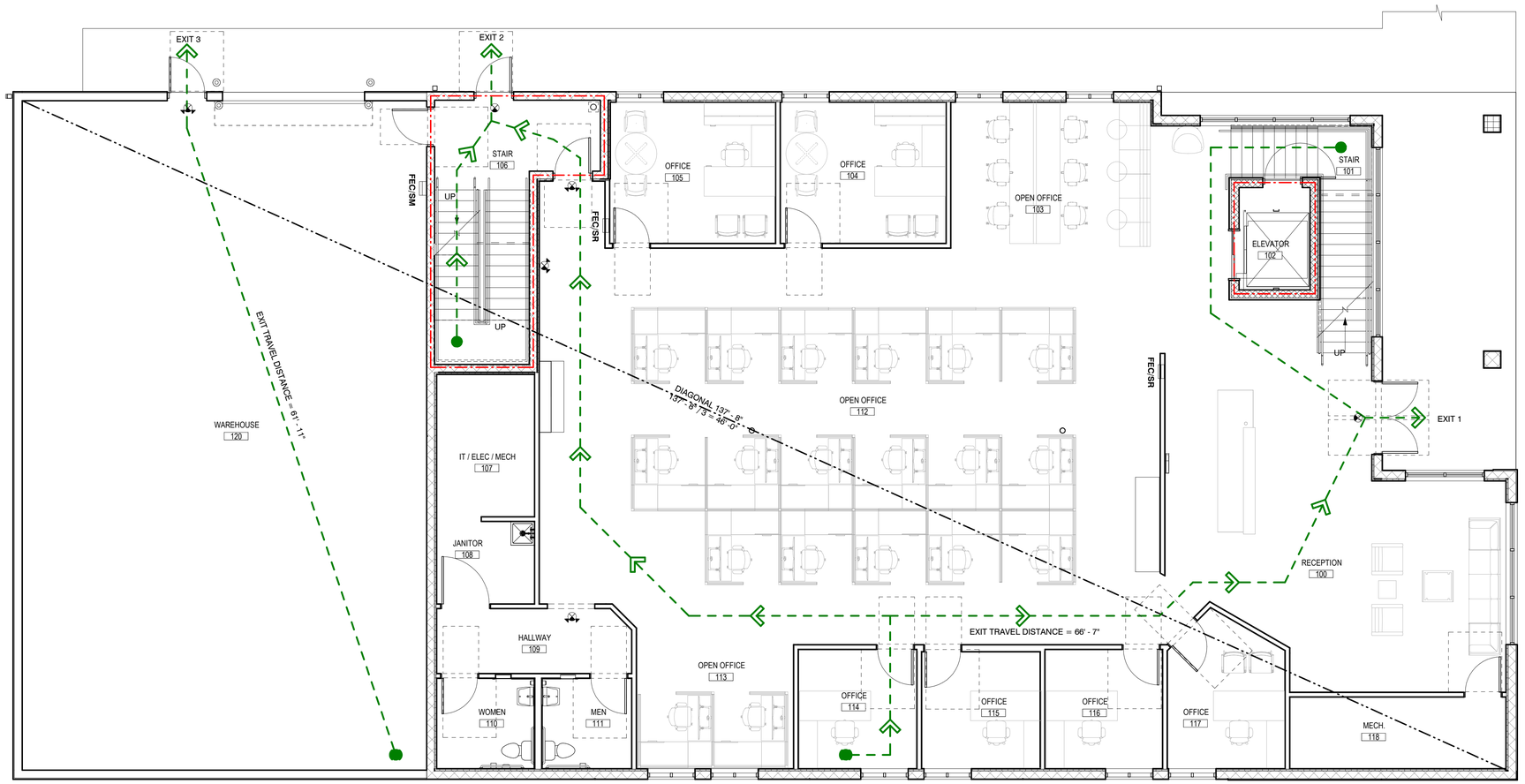
DATE:	5/30/2025
DESIGNED BY:	EAC/NP/MM
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:

ACCESSIBILITY REQUIREMENTS

SHEET NO:

G-003



1 **LIFE SAFETY PLAN - FIRST FLOOR**

3/16" = 1'-0"

PROJECT SUMMARY

OCCUPANCY PER FFPC, NFPA 101, 6.1.14.2 - MULTIPLE, MIXED OCCUPANCY

NEW SPRINKLERED, TWO-STORY OFFICE BUILDING WITH 5,000 SF OF OFFICE SPACE ON BOTH FIRST FLOOR AND SECOND FLOOR. CONSTRUCTED WITH CMU BLOCK, METAL STUDS, STEEL FLOOR AND ROOF JOISTS, AND A MONOSLOPE ASPHALT SHINGLE ROOF. THE FIRST FLOOR ALSO HAS A SEPARATE, ATTACHED 1 STORY, PRE-ENGINEERED METAL BUILDING (PEMB) WAREHOUSE WITH A METAL ROOF.

GOVERNING REGULATIONS SUMMARY

JURISDICTION	LOCAL	STATE	EDITION
CODE ENFORCEMENT JURISDICTION	CITY OF ST. PETERSBURG	FLORIDA	
ZONING JURISDICTION	CITY OF ST. PETERSBURG	FLORIDA	
CODE	**TITLE**	**YEAR**	**EDITION**
BUILDING CODE	FLORIDA BUILDING CODE (FBC)	2023	EIGHTH EDITION
ACCESSIBILITY CODE	FLORIDA ACCESSIBILITY CODE (FAC)	2023	EIGHTH EDITION
MECHANICAL CODE	FLORIDA MECHANICAL CODE (FBC-M)	2023	EIGHTH EDITION
ELECTRICAL CODE	NATIONAL ELECTRICAL CODE (NEC)	2020	---
PLUMBING CODE	FLORIDA PLUMBING CODE (FBC-P)	2023	EIGHTH EDITION
FIRE PROTECTION CODE	FLORIDA FIRE PREVENTION CODE (FFPC)	2023	EIGHTH EDITION
ENERGY CONSERVATION CODE	FLORIDA BUILDING CODE (FBC-EC)	2023	EIGHTH EDITION
FEDERAL ACCESSIBILITY CODE	AMERICANS WITH DISABILITIES ACT	2010	---

GENERAL BUILDING SUMMARY

TOTAL BUILDING AREA (GROSS): **12,241 SF**

FIRST FLOOR - 6,980 SF
- WAREHOUSE: 1,931 SF
- OFFICE: 5,049 SF

SECOND FLOOR - 5,261 SF (OFFICE)

OCCUPANCY PER FBC 508.3: **MIXED NONSEPARATED OCCUPANCY** (BUSINESS / STORAGE)

OCCUPANCY PER FFPC, NFPA 101: **MULTIPLE OCCUPANCY, MIXED OCCUPANCY** (NEW BUSINESS/ NEW STORAGE)

ALLOWABLE BUILDING HEIGHT AND AREA, FBC CH. 5

OCCUPANCY GROUP(S)	CONST. TYPE	SPRINKLER SYSTEM(S)	ACTUAL AREA	ALLOWED AREA PER STORY	ACTUAL HEIGHT / STORY	ALLOWED HEIGHT / STORY	REMARKS
B - BUSINESS	VB	Y	12,241 SF	36,000 SF	38'-6" / 2	40' - 0" / 2	2, 11
S-2 STORAGE							

OVERALL BUILDING OCCUPANT LOAD, FBC 1004.5

OCCUPANCY	FUNCTION OF SPACE	SPACE AREA	OCCUPANT LOAD FACTOR	OCCUPANT LOAD	BUILDING OCCUPANT LOAD	MAX FLOOR OCCUPANT LOAD	REMARKS
B - BUSINESS	OFFICE SPACE	7,927 SF	150 GROSS	52.84	59	31	3
S-2 STORAGE	WAREHOUSE	1,930 SF	500 GROSS	3.86			3
S-2 STORAGE	ACCESSORY MECH. STORAGE / JANITOR	508 SF	300 GROSS	1.69			3

FIRE-RESISTANCE RATING REQUIREMENTS

BUILDING ELEMENT	HR RATING REQUIRED	UL DESIGN NUMBER(S)	REMARKS
PRIMARY STRUCTURAL FRAME	0	NA	1
BEARING WALLS - EXTERIOR	0	NA	1
BEARING WALLS - INTERIOR	0	NA	1
NONBEARING WALL AND PARTITIONS - EXTERIOR	NA	NA	1
NONBEARING WALL AND PARTITIONS - INTERIOR	0	NA	1
FLOOR/CEILING CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	NA	1
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	NA	1
FIRE PARTITION/FIRE BARRIER	1	U906	12
SMOKE PARTITION/SMOKE BARRIER	1	NA	
ROOF/CEILING ASSEMBLY SEPARATION	1	U465	12

MEANS OF EGRESS, FBC CH. 10

EGRESS WIDTH		NUMBER OF EXITS		ARRANGEMENTS OF EXITS		MAX COMMON PATH OF EGRESS TRAVEL DISTANCE		REMARKS
REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQ. DIAGONAL	PROVIDED	MAXIMUM	PROVIDED	
11.8"	96"	2	2	46'-0"	68'-0"	300'	130'-7"	4, 6, 7, 8

PLUMBING FIXTURE TABULATIONS, FBC CH 2902.1

FIXTURE	NUMBER REQUIRED		NUMBER PROVIDED		REMARKS
	FEMALE	MALE	FEMALE	MALE	
WATER CLOSET	3	3	3	3	9
URINALS	0	0	0	0	9
LAVATORIES	3	3	3	3	9
DRINKING FOUNTAINS	1		1		9
SERVICE SINKS	1		2		9
SHOWERS	0		2		9
ADDITIONAL SINKS	0		1		9

FLORIDA PRODUCT APPROVAL NUMBERS

ELEMENT	MANUFACTURER	APPROVAL NUMBER	REMARKS
STOREFRONT DOORS/WINDOWS	KAWNEER COMPANY	FL 7237.2	
LOUVER	GREENHECK	FL 19277.1	
EXTERIOR METAL DOOR	CECO DOOR PRODUCTS	FL 10723.1	
ARCHITECTURAL ASPHALT ROOF SHINGLE	GAF ROOFING SHINGLES	FL 39780-R1	
COILING OVERHEAD DOORS	OVERHEAD DOOR CORP.	FL 15960.1	

INTERIOR WALL & CEILING FINISH REQUIREMENTS

FINISHES	ELEMENT	OCCUPANCY GROUP	SPRINKLERS (Y / N)	FBC CLASS	NFPA 101 CLASS
WALLS AND CEILINGS	VERTICAL EXITS & EXIT PASSAGE WAYS	B - BUSINESS	Y	B	A, B
WALLS AND CEILINGS	EXIT ACCESS CORRIDORS	B - BUSINESS	Y	C	A, B
WALLS AND CEILINGS	ROOMS & ENCLOSED SPACES	B - BUSINESS	Y	C	A, B, C

THERMAL VALUES

BUILDING ELEMENT	INSULATION TYPE	R-VALUE	REMARKS
EXTERIOR WALL	1-1/2" RIGID INSULATION	R-7.5	
FLOOR INSULATION (ABOVE ENTRY WALL OVERHANG)	CLOSED CELL SPRAY FOAM	R-30	10
MAIN ROOF STRUCTURE ROOF	POLYISO BOARD	R-21	
PEMB ROOF & WALLS	VINYL-FACED BATT INSULATION	R-30	10

REMARKS

1. PER FBC 2023, TABLE 601.
2. ALLOWABLE BUILDING HEIGHTS AND AREAS PER FBC 2023 SECTION 503 ,TABLE 504.3, 504.4, 506.2.
3. MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT PER FBC T 1004.5.
4. EXIT ACCESS TRAVEL DISTANCE PER 2023, TABLE 1006.2.1, AND NFPA 101 38.2.4.3
5. NO LIMIT TO UNPROTECTED OPENINGS WITH FIRE SEPARATION DISTANCE GREATER THAN 25 TO LESS THAN 30 FEET IN A PROTECTED BUILDING
6. MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY PER FBC 2023 CH. 1006.3.2
7. REQUIRED ARRANGEMENT OF EXITS BASED ON 1/3 DIAGONAL DISTANCE OF BUILDING PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM, PER FBC SECTION 1007.1.1.2
8. EXIT ACCESS TRAVEL DISTANCE PER FBC CH 10 TABLE 1017.2
9. MINIMUM NUMBER OF PLUMBING FIXTURES PER CH. 29 TABLE 2902.1
10. SEE NOTE #8 ON A-102
11. HIGH POINT OF ROOF AT 38'-6", AND BEARING HEIGHT AT 28'-8", SEE A-202
12. 1 HOUR FIRE BARRIER REQUIRED PER FBC SECTION 713.

WIND DESIGN CRITERIA

ULTIMATE DESIGN WIND SPEED = 150 MPH
NOMINAL DESIGN WIND SPEED = 116.2 MPH

BUILDING RISK CATEGORY = II
EXPOSURE CATEGORY = B

GLAZING TO COMPLY WITH FBC 2403,2404,2406 FOR GLASS IDENTIFICATION, SUPPORTS / FRAMING, WIND LOADS, AND SAFETY REQUIREMENTS

(SEE STRUCTURAL FOR ADDITIONAL INFORMATION)

GENERAL NOTES

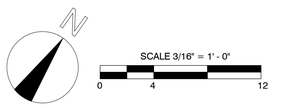
- BUILDING SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM. REFER TO FIRE PROTECTION DRAWINGS FOR PERFORMANCE SPECIFICATIONS
- FIRE EXTINGUISHERS SHALL BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH NFPA 10 REQUIREMENTS AND AS DIRECTED BY THE LOCAL AHJ.
- FURNITURE IS CONCEPTUAL AND FOR REFERENCE ONLY.
- REFER TO DOOR SCHEDULE FOR DOOR FIRE RATING AND EGRESS HARDWARE REQUIREMENTS.
- SEE WALL TYPES AND FLOOR PLAN FOR FIRE-RATED WALL DESCRIPTION AND INFORMATION.
- EXIT SIGNS. FBC-B 2023 1013 AND FFPC NFPA 101 7.10. EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. ACCESS TO EXITS SHALL BE MARKED AND READILY VISIBLE EXIT SIGNS IN CASES WHERE THE EXIT OR THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR IS MORE THAN 100 FEET OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN. FIELD APPROVAL REQUIRED PRIOR TO CERTIFICATE OF OCCUPANCY.
- GENERAL CONTRACTOR IS TO SUBMIT TO ARCHITECT SPRINKLER AND/OR STANDPIPE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ANY MODIFICATIONS AND INSTALLATION OF THESE SYSTEMS
- GENERAL CONTRACTOR IS TO SUBMIT TO ARCHITECT FIRE ALARM DETECTION SYSTEM SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ANY MODIFICATIONS AND INSTALLATION OF THE FIRE ALARM/DETECTION SYSTEM
- PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED PER SECTION 906 FBC-B 2023. FFPC TABLE 906.3(1): FIRE EXTINGUISHERS SHALL BE LOCATED WITHIN 75FT OF ANY PORTION OF THE BUILDING. IF CABINETS ARE RECESSED INTO FIRE RATED WALLS/PARTITIONS, THEN SUCH CABINETS SHALL BE AFFORDED A FIRE RATING TO MAINTAIN THE REQUIRED INTEGRITY. SEE ADJACENT PLANS FOR LAYOUT OF FIRE EXTINGUISHER CABINETS (FEC). FIELD APPROVAL REQUIRED PRIOR TO CERTIFICATE OF OCCUPANCY.

SHEET NOTES

1. POINT OF THE TRANSITION BETWEEN LEVELS FOR THE PATH OF TRAVEL.
2. FIRE RISER. SEE FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.

LIFE SAFETY LEGEND

- FEC/SM — CLASS ABC FIRE EXTINGUISHER WITH SURFACE MOUNTED CABINET
- FEC/SR — CLASS ABC FIRE EXTINGUISHER WITH SEMI-RECESSED CABINET
- EGRESS TRAVEL PATH
- EXIT SIGN, WALL/CEILING-MOUNTED CHEVRON DIRECTION INDICATED BY ARROWS
- EXIT SIGN AND EMERGENCY LIGHT, WALL/CEILING-MOUNTED FACED INDICATED BY SOLID HATCH
- REMOTE LOCATION
- PATH OF TRAVEL
- DIAGONAL EGRESS
- 1 HOUR RATED ASSEMBLY
- ADA COMPLIANT DOOR CLEARANCE SEE G-003



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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE: 5/30/2025
DESIGNED BY: EAC/NP
DRAWN BY: JG/NP
CHECKED BY: EAC/NP/MM

DRAWING TITLE:
CODE ANALYSIS & LIFE SAFTEY PLAN - FIRST FLOOR

SHEET NO:
G-004

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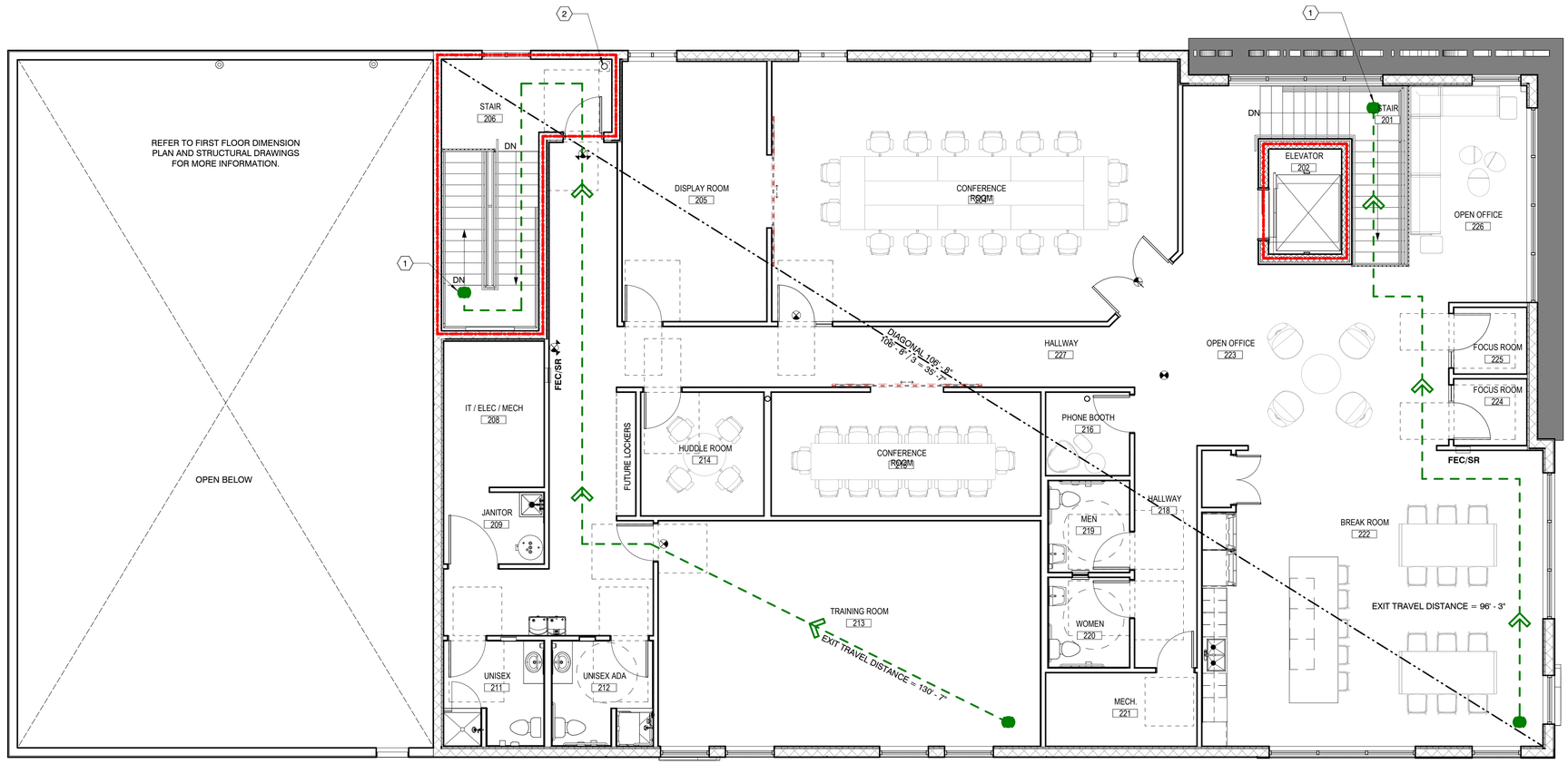
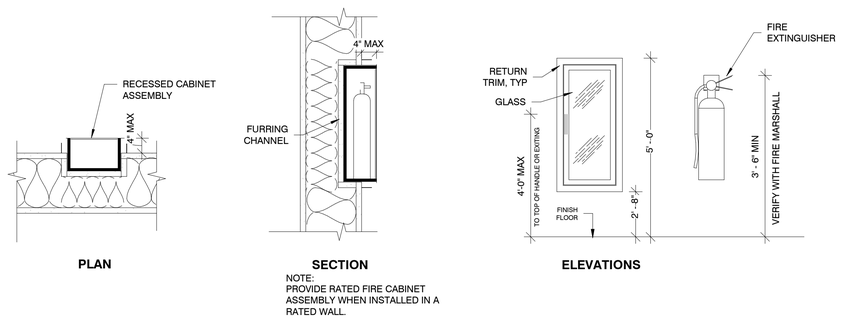


1 **LIFE SAFETY PLAN - SECOND FLOOR**

3/16" = 1'-0"



2 **SEMI-RECESSED FIRE EXT. DETAIL**

12" = 1'-0"

GENERAL NOTES

- BUILDING SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM. REFER TO FIRE PROTECTION DRAWINGS FOR PERFORMANCE SPECIFICATIONS
- FIRE EXTINGUISHERS SHALL BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH NFPA 10 REQUIREMENTS AND AS DIRECTED BY THE LOCAL AHJ.
- FURNITURE IS CONCEPTUAL AND FOR REFERENCE ONLY.
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- SEE WALL TYPES AND FLOOR PLAN FOR FIRE-RATED WALL DESCRIPTION AND INFORMATION.
- EXIT SIGNS. FBC-B 2023 1013 AND FFPC NFPA 101 7.10. EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. ACCESS TO EXITS SHALL BE MARKED AND READILY VISIBLE EXIT SIGNS IN CASES WHERE THE EXIT OR THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR IS MORE THAN 100 FEET OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN. FIELD APPROVAL REQUIRED PRIOR TO CERTIFICATE OF OCCUPANCY.
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SHEET NOTES

1. POINT OF THE TRANSITION BETWEEN LEVELS FOR THE PATH OF TRAVEL.
2. FIRE RISER. SEE FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.

LIFE SAFETY LEGEND

- FEC/SM — CLASS ABC FIRE EXTINGUISHER WITH SURFACE MOUNTED CABINET
- FEC/SR — CLASS ABC FIRE EXTINGUISHER WITH SEMI-RECESSED CABINET
- EGRESS TRAVEL PATH
- EXIT SIGN, WALL/CEILING-MOUNTED CHEVRON DIRECTION INDICATED BY ARROWS
- EXIT SIGN AND EMERGENCY LIGHT, WALL/CEILING-MOUNTED FACED INDICATED BY SOLID HATCH
- REMOTE LOCATION
- PATH OF TRAVEL
- DIAGONAL EGRESS
- 1 HOUR RATED ASSEMBLY
- ADA COMPLIANT DOOR CLEARANCE SEE G-003

N

SCALE 3/16" = 1' - 0"

0 4 12

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
LIFE SAFTEY PLAN - SECOND FLOOR

SHEET NO:
G-005

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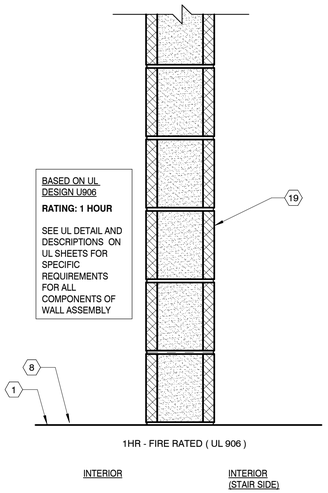
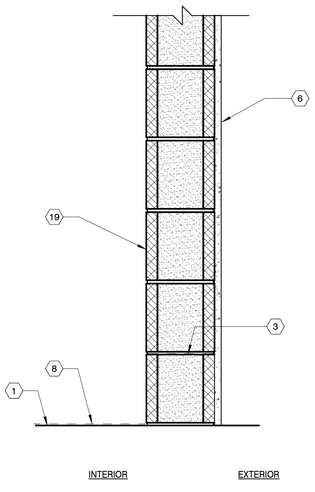
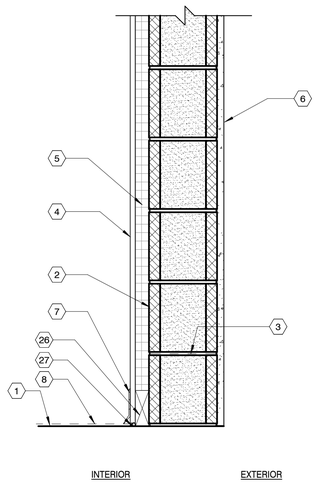


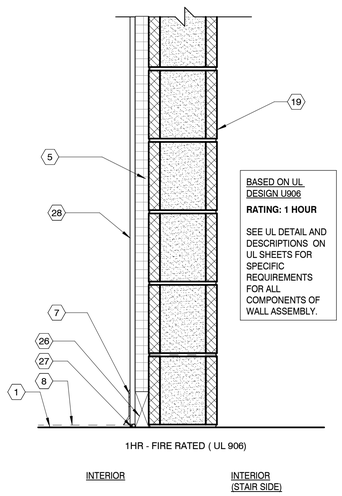
A TYPICAL FIRE RATED INTERIOR CMU WALL — 1 1/2" = 1'-0"



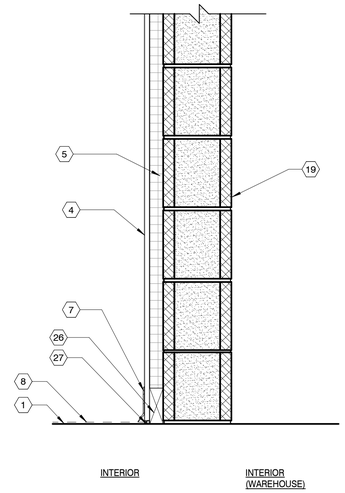
A1 TYP. EXTERIOR CMU WALL - STUCCO — 1 1/2" = 1'-0"



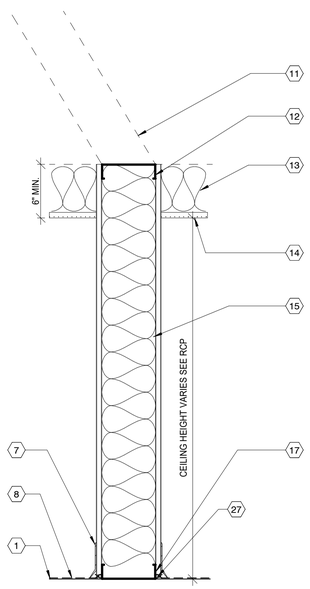
A2 TYPICAL EXTERIOR CMU WALL WITH STUCCO & FURRING — 1 1/2" = 1'-0"



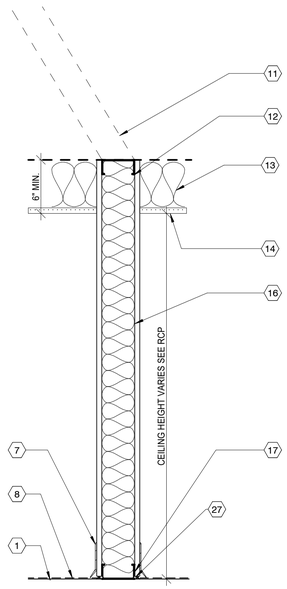
A4 CMU WALL - FIRE RATED W/ FURRING/GYP — 1 1/2" = 1'-0"



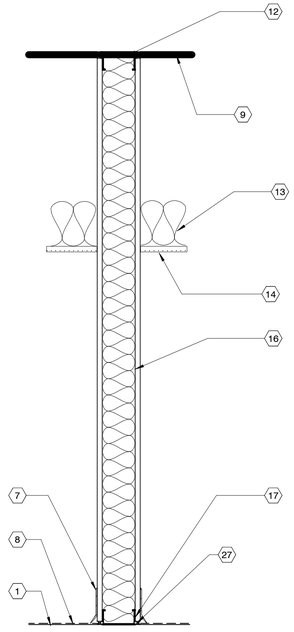
A5 CMU WALL - FURRING/GYP — 1 1/2" = 1'-0"



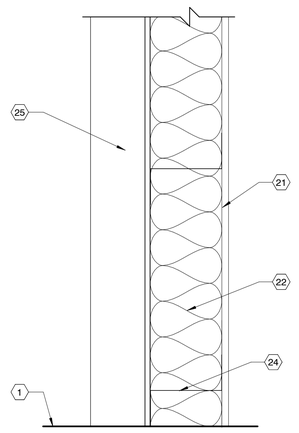
B TYPICAL 6" INTERIOR PARTITION — 1 1/2" = 1'-0"



B1 TYP. 3-5/8" INTERIOR PARTITION — 1 1/2" = 1'-0"



B2 TYP. 3-5/8" INTERIOR PARTITION - EXTEND TO ROF DECK — 1 1/2" = 1'-0"



C TYPICAL PEMB EXTERIOR WALL — 1 1/2" = 1'-0"

GENERAL NOTES

- REFER TO FLOOR PLANS, WALL SECTIONS, LIFE SAFETY PLAN, ROOF PLAN, RCP, EXTERIOR ELEVATIONS, AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO INTERIOR ELEVATIONS, FINISH PLAN, SCHEDULES AND NOTES FOR ADDITIONAL INFORMATION.
- SEE INTERIOR ELEVATIONS AND ACCESSIBILITY DETAILS FOR BLOCKING REQUIREMENTS
- SEE UL DETAILS FOR ADDITIONAL DETAILS AND REQUIREMENTS
- FOR ALL RATED ASSEMBLIES, THE ENTIRE WALL ASSEMBLY SHALL BE CONTINUOUS AND SHALL RUN TO THE BOTTOM OF THE ROOF DECK
- WHERE WALL TILE EXITS, PROVIDE 5/8" TILE BACKER BOARD AND STUD SPACING 16" O.C. AS REQUIRED.
- REFER TO FINISH PLAN FOR LOCATIONS WHERE MOISTURE RESISTANT GYPSUM BOARD IS REQUIRED.
- PROVIDE CEMENTITIOUS BACKER BOARD IN WET LOCATIONS WHERE TILE WILL BE INSTALLED. REFER TO INTERIOR ELEVATIONS AND FINISH PLAN

SHEET NOTES

1 REINFORCED CONCRETE SLAB, SEE STRUCTURAL DRAWINGS
2 8" CMU BLOCK, SEE STRUCTURAL DRAWINGS FOR GROUND AND REINFORMCEMENT NOTES.
3 HORIZONTAL JOINT REINFORCING @ 16" O.C., STARTING AT FIRST COURSE ABOVE FOUNDATION
4 5/8" GYPSUM WALL BOARD
5 1-1/2" "Z" FURRING CHANNELS, SPACED AT 16" O.C. WITH R-7.5 CONTINUOUS RIGID INSULATION BOARD
6 5/8" SMOOTH TEXTURED PAINTED STUCCO. SEE EXTERIOR ELEVATIONS.
7 WALL BASE AS SCHEDULED. SEE ROOM FINISH SCHEDULE
8 FLOOR FINISH AS SCHEDULED, SEE ROOM FINISH SCHEDULE
9 RUN METAL STUDS AND GYPSUM WALL BOARD TO THE UNDERSIDE OF THE ROOF DECK ABOVE
11 PROVIDE DIAGONAL BRACING TO STRUCTURE ABOVE AS REQUIRED
12 CONTINUOUS METAL TOP TRACK
13 SOUND ATTENUATION BATTS AT CEILING, SEE REFLECTED CEILING PLAN FOR LOCATIONS
14 SEE REFLECTED CEILING PLAN AND FINISH PLAN FOR CEILING HEIGHTS AND CEILING TYPES
15 6" METAL STUDS AT 24" O,C, WITH GLASS FIBER ACOUSTIC BATT INSULATION IN LOCATIONS SHOWN ON FLOOR PLANS
16 3 5/8" METAL STUDS AT 24" O.C, WITH GLASS FIBER ACOUSTIC BATT INSULATION IN LOCATIONS SHOWN ON FLOOR PLANS
17 CONTINUOUS FLOOR RUNNER CHANNEL
19 8" CMU, PAINTED ON EXPOSED SIDE ONLY SEE STRUCTURAL DRAWINGS FOR GROUND AND REINFORMCEMENT NOTES, AND FINISH SCHEDULE FOR PAINT COLOR.
21 PEMB WALL PANEL BY PEMB CONTRACTOR, SEE EXTERIOR
22 VINYL FACED BATT INSULATION, BY PEMB COMPANY, MIN R-13
24 8" GIRTS BY PEMB CONTRACTOR
25 STEEL PEMB FRAME MEMBER (BEYOND) BY PEMB CONTRACTOR
26 2X P.T. BLOCKING, TYPICAL
27 CONTINUOUS BACKER ROD AND SEALANT (BOTH SIDES)
28 TYPE "X" 5/8" GYPSUM WALL BOARD

SCALE: 1" = 1' - 0"
3" 6" 1' 2'

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No.	Date	Revision

PROJECT NO:
24006

DATE: 5/30/2025
DESIGNED BY: EAC/NP
DRAWN BY: JG/NP
CHECKED BY: EAC/NP/MM

DRAWING TITLE:
WALL TYPES

SHEET NO:
G-006

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UL Product iQ®

UL Solutions

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

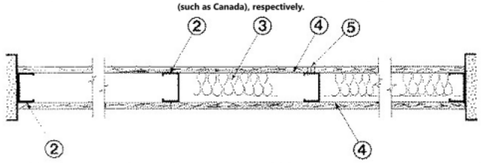
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U465

March 3rd, 2025

Nonbearing Wall Rating — 1 HR.
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 — Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1B. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2C — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1D. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1C — For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDIETRICH BUILDING SYSTEMS — CD proTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1E. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
KIRII (HONG KONG) LTD — Type KIRII

1G. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1J. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 — For use with Item 2 L, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1K. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper X Track

1L. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CRACO MFG INC — SmartTrack20™

1M. **Framing Members* - Floor and Ceiling Runners –** Not shown – In lieu of Items 1 through 1L – For use with Item 2O, proprietary channel shaped runners, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A – SUPRA Track 20/33 mil

1N. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A – SUPRA Track 20EQ/19 mil

1O. **Framing Members* — Floor and Ceiling Runner —** (Not Shown — Alternate to Item 1) — For use with Item 2Q, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.
HYPERFRAME INC - Hypertrack

1P. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 – For use with Item 2R, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8" and 6".

1Q. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 — _For use with Item 2R, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

IRONLINE METALS LLC — Bantam Track.

2. **Steel Studs —** Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members* — Steel Studs —** As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2B. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
CEMCO, LLC — Viper20™

CRACO MFG INC — SmartStud20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2C. **Steel Studs —** (As an alternate to Item 2, For use with Item 1C) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item 2C studs.

2D. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2C — For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD proSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2E. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2F. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
KIRII (HONG KONG) LTD — Type KIRII

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 through 2F — For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2I. **Framing Members* — Steel Studs —** In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2J. **Framing Members* — Steel Studs —** In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2L. **Framing Members* — Steel Studs —** As an alternate to Items 2 — For use with Item 1J, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2M. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/4 in. less in length than assembly height.
CEMCO, LLC — Viper X

2N. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1L, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
CRACO MFG INC — SmartStud20™

2O. **Framing Members* - Steel Studs –** Not Shown – In lieu of Items 2 through 2N – For use with Item 1M, proprietary channel shaped steel studs, min 1-5/8 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness) spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

PANEL REY S A – SUPRA Stud 20/33 mil

2P. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1N, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep with 1/4 in. return lips fabricated from min 0.019 in. thick galv steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

PANEL REY S A – SUPRA Stud 20EQ/19 mil

2Q. **Framing Members* — Steel Studs —** (Not Shown — Alternate to Item 2, For use with Item 1O) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1O). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

HYPERFRAME INC— Hyperstud

2R. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1P, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

2R. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1Q, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min. min. 0.018 in. thick galvanized steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

IRONLINE METALS LLC — Bantam Stud.

3. **Batts and Blankets* —** (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.
See **Batts and Blankets** (BZJZ) category for names of Classified companies.

ROCKWOOL — Type AFB, min. density 1.69 pcf / 27.0 kg/m^3

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

3A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

3B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

BOGGS DESIGN PARTNERS
Architecture + Interiors

607 S. ALEXANDER ST.
SUITE 101
PLANT CITY, FL 33563
813 . 946 . 8444

DATE:
ERICA AZORIN CRAIG
FL REG. NO. AR101635
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BALDWIN ROOFING CO.

BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG/NP
CHECKED BY:	EAC/NP

DRAWING TITLE:
UL 465 DESIGN DETAIL

SHEET NO:
G-007

NU-WOOL CO INC — Cellulose Insulation

3C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

3D. **Batts and Blankets* —** For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.
See **Batts and Blankets** (BZJZ) category for names of manufacturers.

3E. **Batts and Blankets* —** For use with Item 4R and 4S. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

3F. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft^3.

Applegate Greenfiber Acquisition LLC— Applegate Advanced Stabilized Cellulose Insulation

3G. **Foamed Plastic*** — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

3H. **Foamed Plastic*** — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Sprayitie® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Sprayitie® 158, Sprayitie® SP, Sprayitie® 81205, Sprayitie® Comfort XL, Walltite® XL, Walltite® MAX, Walltite® LWP, Walltite® Plus and Enertite® Max.

4. **Gypsum Board* —** 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members* (Item 6 or any alternate clips) are used, gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing, 5/8 in. Type C.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, Type X-1, Type C, 5/8" Easi-Lite Type X, Easi-Lite Type X-2, Type LWTX

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSL, RSX.

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS, PGI

PANEL REY S A — Types GREX, GRIX, PRC, PRC2, PRX, RHX, MDX, ETX, PRX2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX, (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4A. **Gypsum Board* —** (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CERTAINTEED GYPSUM INC — Type X-1, Type C, Type EGRG/ GlasRoc, GlasRoc-2, Type SilentFX, Easi-Lite Type X-2

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD

GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4B. **Gypsum Board* —** (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.

CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

4C. **Gypsum Board* —** As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing.
GEORGIA-PACIFIC GYPSUM L L C — Type DGG, GreenGlass Type X

4D. **Gypsum Board* —** As an alternate to Items 4, 4A, 4B, 4C, 4G — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field, and12 in. along the top and bottom of the wall. When used in widths other than 48 in., gypsum panels to be installed horizontally. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C

4E. **Gypsum Board* —** (As an Alternate to Items 4 through 4D) – Installed as described in item 4. 5/8 in. thick, 4 ft wide, applied vertically only and fastened to the studs and plates with 1 in. long Type S steel screws spaced 12 in. OC. When studs (Item 2) spaced a max 16 in. OC, 5/8" in. thick gypsum panels applied vertically or horizontally with 1 in. long Type S steel screws spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Type SBWB

4F. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. **Gypsum Board* —** (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C and ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CGC INC — Type SCX, ULIX

CERTAINTEED GYPSUM INC — Type LGFC6A, LGFC-C/A

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, and FSMR-C

UNITED STATES GYPSUM CO — Type SCX, ULIX

USG BORAL DRYWALL SFZ LLC — Type SCX

4H. **Gypsum Board* —** (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

4C. **Gypsum Board* —** As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing.
GEORGIA-PACIFIC GYPSUM L L C — Type DGG, GreenGlass Type X

4D. **Gypsum Board* —** As an alternate to Items 4, 4A, 4B, 4C, 4G — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field, and12 in. along the top and bottom of the wall. When used in widths other than 48 in., gypsum panels to be installed horizontally. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C

4E. **Gypsum Board* —** (As an Alternate to Items 4 through 4D) – Installed as described in item 4. 5/8 in. thick, 4 ft wide, applied vertically only and fastened to the studs and plates with 1 in. long Type S steel screws spaced 12 in. OC. When studs (Item 2) spaced a max 16 in. OC, 5/8" in. thick gypsum panels applied vertically or horizontally with 1 in. long Type S steel screws spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Type SBWB

4F. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. **Gypsum Board* —** (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C and ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CGC INC — Type SCX, ULIX

CERTAINTEED GYPSUM INC — Type LGFC6A, LGFC-C/A

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, and FSMR-C

UNITED STATES GYPSUM CO — Type SCX, ULIX

USG BORAL DRYWALL SFZ LLC — Type SCX

4H. **Gypsum Board* —** (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Types PRC, PRC2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

4N. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

4O. **Gypsum Board* —** As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall.
NATIONAL GYPSUM CO — Type FSW

4P. **Gypsum Board* —** As an alternate to Item 4. Nom 5/8 in. thick, 4 ft wide, Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and runners with 1 in. long Type S steel screws spaced 12 in. OC when applied horizontally or vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Types ULIX

4Q. **Gypsum Board* —** 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with screw length increased to min. 1- 1/8 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

4R. **Gypsum Board* —** As an alternate to Item 4D. For use with Item 3E, **Batts and Blankets*** — 5/8 in. thick, 4 ft wide, installed as described in Item 4. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Type FSLX.

4S. **Gypsum Board* —** As an alternate to Item 4. For use with Item 3E, **Batts and Blankets*** — 5/8 in. thick, 4 ft wide, installed as described in Item 4A.
CERTAINTEED GYPSUM INC — Type CLLX.

4T. **Wall and Partition Facings and Accessories* —** (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

4U. **Gypsum Board*—** (As an alternate to Item 4 when Foam Plastic insulation Items 3G or 3H is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

4V. **Gypsum Board* —** (As an alternate to Item 4, for 1 hr. rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications.
CERTAINTEED GYPSUM INC — Type X-1, SilentFX, GlasRoc, Type C

5. **Joint Tape and Compound —** Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6. **Resilient Channel —** (Optional — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F, 4J or 4L.

6A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Not for use with Items 4F, 4J, or 4L.

b. **Framing Members* —** Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

6B. **Framing Members* —** — (Optional on one or both sides, Not Shown, As an alternate to Item 6) — Furring channel and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

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BALDWIN ROOFING CO.
BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG/NP
CHECKED BY:	EAC/NP

DRAWING TITLE:
UL 465 DESIGN DETAIL

SHEET NO:
G-008

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BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

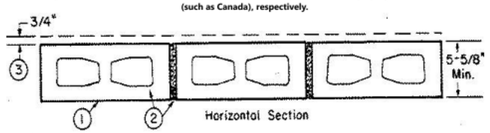
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U906

April 14, 2023

Bearing Wall Rating — 2 HR.
Nonbearing Wall Rating — 2 HR.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Concrete Blocks* —** Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr).

See **Concrete Blocks** category for list of eligible manufacturers.

ANCHOR CONCRETE PRODUCTS INC

GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS

WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Ply Pro, EnergyShield® CGF, EnergyShield® PanelCast, EnergyShield® and "EnergyShield® XR

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

Holcim Solutions and Products US, LLC — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci 286", "Xci Foil (Class A)"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath"

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

4A. **Building Units* —** As an alternate to Item 4, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

ATLAS ROOFING CORP — EnergyShield® Ply

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply"

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-04-14

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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG/NP
CHECKED BY:	EAC/NP

DRAWING TITLE:
UL 906 DESIGN DETAIL

SHEET NO:
G-009

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SPECIFICATIONS

DIVISION 1 – GENERAL REQUIREMENTS
- 01 10 00 SUMMARY OF WORK
- 01 20 00 PROJECT PROCEDURES
- 01 25 00 SUBSTITUTION PROCEDURES
- 01 29 00 PAYMENT PROCEDURES
- 01 30 00 ADMINISTRATIVE REQUIREMENTS
- 01 31 00 PROJECT MANAGEMENT AND COORDINATION
- 01 32 00 PHOTOGRAPHIC DOCUMENTATION
- 01 33 00 SUBMITTAL PROCEDURES
- 01 40 00 QUALITY REQUIREMENTS
- 01 50 00 TEMPORARY FACILITIES AND CONTROLS
- 01 60 00 PRODUCT REQUIREMENTS
- 01 70 00 EXECUTION & CLOSEOUT REQUIREMENTS
- 01 78 00 CLOSEOUT SUBMITTALS
- 01 78 23 OPERATION AND MAINTENANCE DATA
- 01 78 39 PROJECT RECORD DOCUMENTS

DIVISON 3 – CONCRETE
- 03 35 11 CONCRETE FLOOR FINISHES
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL SPECIFICATIONS

DIVISON 4 – MASONRY
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL SPECIFICATIONS

DIVISON 5 - METALS
- PRE-ENGINEERED METAL PAN STAIRS
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL SPECIFICATIONS

DIVISON 6 – WOOD AND PLASTICS
- 06 10 00 ROUGH CARPENTRY
- 06 20 00 FINISH CARPENTRY
- 06 41 00 CABINETS & COUNTERTOPS
- 06 82 00 FIBERGLASS REINFORCED PLASTIC (FRP)

DIVISON 7 – THERMAL AND MOISTURE PROTECTION
- 07 21 00 THERMAL INSULATION
- 07 26 00 VAPOR RETARDERS
- 07 41 00 METAL ROOF PANELS
- 07 62 00 SHEET METAL FLASHING AND TRIM
- 07 92 00 JOINT SEALANTS

DIVISON 8 – DOORS AND WINDOWS
- 08 11 13 HOLLOW METAL DOORS AND FRAMES
- 08 33 23 COILING DOORS
- 08 41 13 ALUMINUM FRAMED STOREFRONTS
- 08 71 00 DOOR HARDWARE

DIVISON 9 – FINISHES
- 09 21 16 GYPSUM BOARD ASSEMBLIES
- 09 22 16 NON-STRUCTURAL METAL FRAMING
- 09 24 00 PORTLAND CEMENT STUCCO
- 09 30 00 TILING
- 09 51 23 ACOUSTICAL TILE CEILINGS
- 09 65 19 RESILIENT TILE FLOORING
- 09 65 13 RESILIENT BASE & ACCESSORIES
- 09 68 13 TILE CARPETING
- 09 90 00 PAINTING AND COATING

DIVISON 10 – SPECIALTIES
- 10 14 00 SIGNAGE
- 10 28 00 TOILET ACCESSORIES
- 10 44 00 FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

DIVISON 13 – SPECIAL CONSTRUCTION
- 13 34 19 METAL BUILDING SYSTEMS

DIVISON 14 – CONVEYING EQUIPMENT
- 14 24 00 HYDRAULIC ELEVATORS

DIVISON 21 – FIRE SUPPRESSION
- SEE FIRE PROTECTION DRAWINGS FOR SPECIFICATIONS

DIVISON 22 – PLUMBING
- SEE PLUMBING DRAWINGS FOR SPECIFICATIONS

DIVISON 23 – HEATING, VENTILATION, AIR CONDITIONING
- SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS

DIVISON 26 – ELECTRICAL
- SEE ELECTRICAL DRAWINGS FOR SPECIFICATIONS

DIVISON 31 – EARTHWORK
- 31 31 00 - SOIL TREATMENT FOR TERMITE AND PEST CONTROL

SECTION 01 10 00
SUMMARY OF WORK

PART 1 GENERAL

1.1 PROJECT
A. Project Name: Baldwin Roofing Co. New Office Building
1. Location: 1500 94th Avenue North,r St. Petersburg FL, 33716
B. Owner's Name: Baldwin Roofing Co.
1. Location: 10701 Danka Way N. Suite B, St. Petersburg FL, 33716
2. Contact: Spencer Baldwin
C. Architect's Name: Boggs Design Partners, LLC
1. Location: 607 S. Alexander St. Suite 101, Plant City, FL 33563
2. Contact: Erica Craig, AIA, NCARB
D. Scope of Work:
1. A new, sprinklered two-story office building with 5,000 square feet of office space on both the first and second floors. The structure is constructed using CMU block, metal studs, steel floor and roof joists, and features a monoslope asphalt shingle roof. The first floor also includes an attached, approximately 2,000-square-foot pre-engineered metal building (PEMB) warehouse with a metal roof.
E. Architectural drawings have been prepared assuming that AIA Document A201 2017 General Conditions
of the Contract for Construction will apply.

1.2 WORK BY OWNER
A. Items noted NIC (Not in Contract) will be supplied and installed by the Owner before Substantial
Completion. Some items include:
1. MOVABLE CABINETS.
2. FURNISHINGS.
3. SMALL APPLIANCES.
4. ARTWORK.
5. AWAREHOUSE RACKING
6. APPLIANCES
7. WINDOW TREATMENT
8. TRAINING ROOM EQUIPMENT AND MIRRORS
9. INTERIOR AND EXTERIOR SIGNAGE
10. WALL COVERINGS
11. FURNITURE AND OFFICE EQUIPMENT
12. SECURITY CAMERAS
13. AV/TV SYSTEM AND EQUIPMENT
14. VOICE/DATA SYSTEM AND EQUIPMENT
15. LOCKERS

1.3 WORK BY OWNER

1.4 INDUSTRY STANDARDS
A. Applicability of Standards: Except where more explicit or stringent requirements are written into the Contract Documents, applicable construction industry standards have the same force and effect as if bound into or copied directly into the Contract Documents. Such industry standards are made a part of the Contract Documents by reference. Individual specification sections indicate which codes and standards the Contractor must keep available at project site for reference.
B. Publication Dates: Except as otherwise indicated, where compliance with an industry standard is required, comply with standard in effect as of date of Contract Documents.
C. Conflicting Requirements: Where compliance with two or more standards is specified, and where these standards establish different or conflicting requirements for minimum quantities or quality levels, the most stringent requirement will be enforced, unless the Contract Documents specifically indicate otherwise. Refer requirements that are different, but apparently equal, and uncertainties as to which quality level is more stringent to the Owner for a decision before proceeding.
D. Copies of Standard: The Contract Documents require that each entity performing work be experienced in that part of the work being performed. Each entity is also required to be familiar with industry standards applicable to that part of the work. Copies of standards are needed for proper performance of the work; the Contractor is required to obtain such copies directly from the publication source.
E. Abbreviations and Names: Trade association names and titles of general standards are frequently abbreviated. Where acronyms or abbreviations are used in the specifications or other Contract Documents they are defined to mean the recognized name of the trade association, standards generating organization, governing authority, or other entity applicable to the context of the text provisions.
F. Intent: Drawings and specifications are intended to provide the basis for proper completion of the work suitable for the intended use of the Owner. Anything not expressly set forth but which is reasonable implied or necessary for proper performance of the project shall be included.

1.7 OWNER OCCUPANCY
A. Owner intends to occupy the Project upon Substantial Completion.
B. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
C. Schedule the Work to accommodate Owner occupancy.

1.8 CONTRACTOR USE OF SITE AND PREMISES
A. Provide access to and from site as required by law and by Owner:
1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
2. Do not obstruct roadways, sidewalks, or other public ways without permit.
B. Utility Outages and Shutdown:
C. Limit disruption of utility services to the site campus.
D. Prevent accidental disruption of utility services to other facilities.

1.9 WORK SEQUENCE
A. Coordinate construction schedule and operations with Owner.

PART 2 – PRODUCTS – Not Applicable To This Section

PART 3 – EXECUTION – Not Applicable To This Section

END OF SECTION

SECTION 01 20 00
PROJECT PROCEDURES

PART 1 GENERAL

1.1 SUMMARY
A. Follow project procedures for proper submission of payment request, schedules, contract correspondence documents, coordination of work, and communication with Owner.
B. Submit information on Architect and Owner provided Project Forms where referenced by AIA, CSI, ORL or ES numbers.

1.2 PROCEDURES PRIOR TO CONSTRUCTION
A. Within 48 hours of Contractor's receipt of Notice to Proceed or letter of intent,
1. Submit Subcontractors and Major Material Suppliers to be used for the project (ORL-G).
B. Within 10 days upon Contractor's receipt of Notice to Proceed or letter of intent,
C. Submit proposed progress schedule, bar-chart type, indication a time bar for each trade or operation or work to be performed at the site. Time bar shall demonstrate planned work, properly sequenced and intermeshed, for expeditious completion of the project.
D. Contractor's supervisory personnel.
1. Provide Owner with name, telephone, and fax number of personnel responsible for Project.
2. Submit and post a list of emergency telephone numbers and address for:
a. Individuals to be contacted in case of emergency.
b. Owner's supervisory personnel.
E. Owner to provide Contractor with names and telephone numbers of personnel responsible for Project.
1. Contractor to notify Owner's fields representative 48 hours prior to beginning construction.
2. Forward copy of building permit within 48 hours of issuance by Government Agency.
3. Prior to commencing work on the project, Contractor must record Notice of Commencement or similar notices to the extent applicable in the state where the project is located. Provide copy of recorded notice to Owner.

1.3 PROCEDURES DURING CONSTRUCTION
A. Progress Payment Request Procedures: Application for payment and lien waivers to be received together on a monthly basis corresponding to the Contract date prior to Owner processing. Noncompliance may result in rejection of application and delay of payment processing. Submit electronically to CCJ. Refer to Article 21.2 of the General Conditions of the Contract for electronic submittal requirements.
1. Submit Application and Certificate for Payment (AIA G702 and G703).
a. Itemize separate line cost for each major item of work and each subcontracted item of work (use Sections under Division 2 through 26 in Table of Contents as a basis for listing).
b. Application to include a summary of approved Change Orders.
B. Requirements for sequencing or scheduling:
1. Coordination:
a. Coordinate the work of all trades.
b. Verify location of utilities and existing conditions.
c. Schedule 10 days after notice to proceed with local utility companies for installation of utility service connections.
C. Testing:
1. Contractor shall provide testing as required by General Conditions and individual sections. Refer to sections for testing types and frequency requirements.
2. Submit copies of required test reports in a timely fashion to Owner, and Entity having jurisdiction over the Project.
3. Owner reserves the right to have tests made when deemed necessary.
a. Tests not specified as part of a section shall be paid for by the Owner. Should test reveal a failure of the work to meet Contract Document requirements, subsequent test, related to the failure, will be paid by the Owner, with cost deducted from the Contract amount by Change Order.
b. Tests shall be made in accordance with recognized standards by a competent, independent testing laboratory.
c. Materials found defective or not in conformance with the Contract Document requirements shall be promptly replaced or repaired at the expense of the Contractor.
D. Field engineering:
1. Secure the services of a registered civil engineer, land surveyor, or employ qualified personnel for setting, maintaining and establishing finished elevations and lines.
2. If the site conditions indicated in the Contract Documents differ materially from those the Contractor encounters in the performance of the work, the Contractor shall within 48 hours and before such conditions are disturbed, notify the Owner and Architect in writing.
E. Contractor to maintain record drawings and specifications on site by annotation as work progresses.

1.4 PROCEDURES PRIOR TO CONTRACT CLOSEOUT
A. The following are prerequisites to substantial completion. Provide the following:
1. Contractor's Punch List (ORL-H).
B. Provide the following perquisites for final acceptance:
1. Final payment request (AIA G702 and G703).
2. Completed punch list (ORL-H).
3. Occupancy Permit.
C. Provide the following closeout items:
1. Submission of record documents/
2. Training and turnover to Owner's management personnel.
3. Final cleaning and touch-up.
4. Removal of temporary facilities.

1.5 GENERAL PROCEDURES
A. Dimensions: Verify dimensions indicated on drawings with field dimensions before fabrication or ordering of materials. DO NOT scale drawings.
B. Cutting and Patching:
1. Provide cutting and patching work to properly complete the work. Do not cut and patch in a manner that would result in a failure of the work to perform as intended, decreased energy performance, increased maintenance, decreased operational life, or decreased safety.
2. Perform work with workmen skilled in the trades involved. Use proper tools to minimize damage to adjacent work. Check for concealed utilities and structure before cutting.
3. Match existing materials with new materials conforming to project requirements.
4. Make patches, seams, and joints durable and inconspicuous. Comply with tolerances of new work.

C. Installation Requirements, General
1. Inspect substrates and report unsatisfactory conditions in writing.
2. Do not proceed until unsatisfactory conditions have been corrected.
3. Take field measurements prior to fabrication where practical. Form to required shapes and sizes with true edges, lines, and angles. Provide inserts and templates needed for work of other trades.
4. Install materials in exact accordance with manufacturer's instructions and approved submittals.
5. Install materials in proper relation with adjacent construction and with proper appearance.
6. Restore construction and site damaged during installation. Replace construction, which cannot be restored, at no additional expense to Owner.
7. Refer to additional installation requirements and tolerances specified under individual specification sections.

D. Existing conditions: Notify Owner of existing conditions differing from those indicated on the drawings. Do not remove or alter structural components without prior written approval. Inspect conditions prior to work to identify scope and type of work required. Protect adjacent work

PART 2 – PRODUCTS – Not Applicable To This Section

PART 3 – EXECUTION – Not Applicable To This Section

END OF SECTION

SECTION 01 25 00
SUBSTITUTION PROCEDURES

PART 1 GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY
A. Section includes administrative and procedural requirements for substitutions.

1.3 DEFINITIONS
A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

1.4 ACTION SUBMITTALS
A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
1. Substitution Request Form: Use CSI Form 13.1
2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors, that will be necessary to accommodate proposed substitution.
c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
e. Samples, where applicable or requested.
f. Certificates and qualification data, where applicable or requested.
g. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
i. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
j. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
k. Cost information, including a proposal of change, if any, in the Contract Sum.
l. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.5 QUALITY ASSURANCE
A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.6 PROCEDURES
A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 PRODUCTS
2.1 SUBSTITUTIONS
A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.
1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
b. Substitution request is fully documented and properly submitted.
c. Requested substitution will not adversely affect Contractor's construction schedule.
d. Requested substitution has received necessary approvals of authorities having jurisdiction.
e. Requested substitution is compatible with other portions of the Work.
f. Requested substitution has been coordinated with other portions of the Work.
g. Requested substitution provides specified warranty.
h. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
B. Substitutions for Convenience: Architect will consider requests for substitution if received within 30 days after the Notice to Proceed. Requests received after that time may be considered or rejected at discretion of Architect.
1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
b. Requested substitution does not require extensive revisions to the Contract Documents.
c. Requested substitution is consistent with the Contract Documents and will produce indicated results.
d. Substitution request is fully documented and properly submitted.
e. Requested substitution will not adversely affect Contractor's construction schedule.
f. Requested substitution has received necessary approvals of authorities having jurisdiction.
g. Requested substitution is compatible with other portions of the Work.
h. Requested substitution has been coordinated with other portions of the Work.
i. Requested substitution provides specified warranty.
j. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

END OF SECTION

SECTION 01 29 00
PAYMENT PROCEDURES

PART 1 GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY
A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.

1.3 SCHEDULE OF VALUES
A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.
1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:
a. Application for Payment forms with continuation sheets.
b. Submittal schedule.
c. Items required to be indicated as separate activities in Contractor's construction schedule.
2. Submit the schedule of values to Architect at earliest possible date, but no later than seven days before the date scheduled for submittal of initial Applications for Payment.
3. Subschedules for Phased Work: Where the Work is separated into phases requiring separately phased payments, provide subschedules showing values coordinated with each phase of payment.
4. Subschedules for Separate Elements of Work: Where the Contractor's construction schedule defines separate elements of the Work, provide subschedules showing values coordinated with each element.
B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.
1. Identification: Include the following Project identification on the schedule of values:
a. Project name and location.
b. Name of Architect.
c. Architect's project number.
d. Contractor's name and address.
e. Date of submittal.
2. Arrange schedule of values consistent with format of AIA Document G703.
3. Arrange the schedule of values in tabular form with separate columns to indicate the following for each item listed:
a. Related Specification Section or Division.
b. Description of the Work.
c. Name of subcontractor.
d. Name of manufacturer or fabricator.
e. Name of supplier.
f. Change Orders (numbers) that affect value.
g. Dollar value of the following, as a percentage of the Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent.
1. Labor
2. Materials
4. Equipment
5. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with Project Manual table of contents. Provide multiple line items for principal subcontract amounts in excess of five percent of the Contract Sum.
a. Include separate line items under Contractor and principal subcontracts for LEED documentation and other Project closeout requirements in an amount totaling five percent of the Contract Sum and subcontract amount.
6. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
7. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
a. Differentiate between items stored on-site and items stored off-site. Include evidence of insurance.
8. Provide separate line items in the schedule of values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
9. Allowances: Provide a separate line item in the schedule of values for each allowance. Show line-item value of unit-cost allowances, as a product of the unit cost, multiplied by measured quantity. Use information indicated in the Contract Documents to determine quantities.
10. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.

1.4 APPLICATIONS FOR PAYMENT
A. Each Application for Payment following the initial Application for Payment shall be consistent with previous applications and payments as certified by Architect and paid for by Owner.
1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
A. Payment Application Times: The date for each progress payment is indicated in the Agreement between Owner and Contractor. The period of construction work covered by each Application for Payment is the period indicated in the Agreement.
B. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 or AIA Document G702/CMa and AIA Document G703 as applicable as form for Applications for Payment.
C. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
B. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
C. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
D. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
E. Indicate separate amounts for work being carried out under Owner requested project acceleration.
A. Stored Materials: Include in Application for Payment amounts applied for materials or equipment purchased or fabricated and stored, but not yet installed. Differentiate between items stored on-site and items stored off-site.
F. Provide certificate of insurance, evidence of transfer of title to Owner, and consent of surety to payment, for stored materials.
G. Provide supporting documentation that verifies amount requested, such as paid invoices. Match amount requested with amounts indicated on documentation; do not include overhead and profit on stored materials.
H. Provide summary documentation for stored materials indicating the following:
a. Value of materials previously stored and remaining stored as of date of previous Applications for Payment.
b. Value of previously stored materials put in place after date of previous Application for Payment and on or before date of current Application for Payment.
c. Value of materials stored since date of previous Application for Payment and remaining stored as of date of current Application for Payment.
d. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Architect by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
I. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.
A. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from entities lawfully entitled to file a mechanic's lien arising out of the Contract and related to the Work covered by the payment.
J. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
K. When an application shows completion of an item, submit conditional final or full waivers.
L. Owner reserves the right to designate which entities involved in the Work must submit waivers.
M. Waiver Forms: Submit executed waivers of lien on forms acceptable to Owner.
A. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
N. List of subcontractors.
O. Schedule of values.
P. Contractor's construction schedule (preliminary if not final).
Q. Products list (preliminary if not final).
R. Schedule of unit prices.
S. Submittal schedule (preliminary if not final).
T. List of Contractor's staff assignments.
U. List of Contractor's principal consultants.
V. Copies of building permits.
W. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
X. Report of preconstruction conference.
Y. Certificates of insurance and insurance policies.
Z. Performance and payment bonds.
AA. Data needed to acquire Owner's insurance.

PART 2 PRODUCTS (Not Used)
PART 3 EXECUTION (Not Used)
END OF SECTION

BDP
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DATE:
ERICA AZORIN CRAIG
FL REG. NO. AR101635
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG/NP/MM
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ARCHITECTURAL SPECIFICATIONS

SHEET NO:
G-010

BALDWIN ROOFING CO.
BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

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SECTION 01 30 00
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL
1.1 SECTION INCLUDES
A. Preconstruction meeting.
B. Coordination meetings.
C. Submittals for review.
D. Submittals for information.
E. Submittals for Project Closeout.
F. Number of copies of submittals
G. Submittal procedures.

PART 2 NOT USED
PART 3 EXECUTION
3.1 PRECONSTRUCTION MEETING
A. A pre-construction conference and organizational meeting shall be held at the project site OR virtually. This meeting shall be held no later than 15 days after execution of Agreement between Owner and Contractor and, prior to commencement of any work other than site mobilization and clearing.
B. Attendance and Items Required:
1. Owner.
2. Architect or Architects Representative
3. Contractor with Superintendent.
4. Major sub-contractors.
5. Any other party deemed necessary by the Contractor.
C. Agenda - (Contractor to provide).
1. Execution of Owner-Contractor Agreement.
2. Submission of executed bonds and insurance certificates.
3. Distribution of Contract Documents.
4. Submission of list of Subcontractors, list of Products, schedule of values, and progress schedule.
5. Procedures and processing of field decisions, submittals, and substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
D. Record minutes and distribute electronically, in PDF format, within two days after meeting to Architect, Owner, participants, and those affected by decisions made.

3.2 COORDINATION MEETINGS
A. Construction Phase Services include monthly site visits by architectural representative or Architect. Contractor to Schedule and administer site meeting date at regularly scheduled monthly times agreed to by the Owner and Architect
B. GC to Make arrangements for meetings, prepare agenda with copies for participants, and preside at meetings.
C. Attendance Required: Owner, Architect or Architects Representative, Contractor, Job superintendent, and all other trades that are currently or will in the near future be working on the project and require coordination of their work.
D. Agenda provided by Contractor:
1. Review minutes of previous meetings.
2. Review of Work progress.
3. Field observations, problems, and decisions.
4. Identification of problems which impede planned progress.
5. Review of submittals schedule and status of submittals.
6. Maintenance of progress schedule.
7. Corrective measures to regain projected schedules.
8. Planned progress during succeeding work period.
9. Maintenance of quality and work standards.
10. Effect of proposed changes on progress schedule and coordination.
11. Other business relating to Work.
E. Contractor to Record minutes and distribute electronically, in PDF format, within two days after meeting to Architect, Owner, participants, and those affected by decisions made.
1. A pre-installation conference may be necessary before the installation of major system and/or components as deemed necessary by the Architect and/or Contractor. This may be incorporated into the Coordination meeting if necessary.

3.3 SUBMITTALS FOR REVIEW
A. When the following are specified in individual sections, submit them for review:
1. Product data.
2. Shop drawings.
3. Samples for selection.
4. Samples for verification.
B. Contractor shall review submittals thoroughly prior to releasing submittal to Architect. After review, Contractor shall distribute information and/or samples in accordance with SUBMITTAL PROCEDURES article below and for record document purposes.
C. Submit to Architect and Owner for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.
D. Samples will be reviewed only for aesthetic, color, or finish selection.

3.4 SUBMITTALS FOR INFORMATION
A. When the following are specified in individual sections, submit them for information:
1. Design data.
2. Certificates.
3. Test reports.
4. Inspection reports.
5. Manufacturer's instructions.
6. Manufacturer's field reports.
7. Other types indicated.
B. Submit for Architect's knowledge as contract administrator or for Owner. No action will be taken.

3.5 SUBMITTALS FOR PROJECT CLOSE OUT
A. When the following are specified in individual sections, submit them at project closeout:
1. Project record documents.
2. Operation and maintenance data.
3. Warranties.
4. Bonds.
5. Other types as indicated.
B. Submit for Owner's benefit during and after project completion.

3.6 NUMBER OF COPIES OF SUBMITTALS
A. Documents for Review: ALL SUBMITTALS SHALL BE IN PDF FORMAT (except samples).
B. Documents for Information: ALL SUBMITTALS SHALL BE IN PDF FORMAT unless they require signature and raised seal, in which case submit 6 copies.
C. Documents for Project Closeout: Make one reproduction of PDF submittal originally reviewed. Submit one extra of submittals for information.
D. Samples: Submit one copy which will be retained by Architect.
1. After review, produce duplicates.
2. Retained samples will not be returned to Contractor unless specifically so stated.

3.7 SUBMITTAL PROCEDURES
A. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.
B. Identify Project, Contractor, Subcontractor, or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.
C. Apply 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.
D. Deliver submittals to Architect, Project Architect and any other designated staff, via email, in a compact disk or via FTP site as agreed upon.
E. Deliver samples or signed and sealed documents to Architect at business address.
F. Schedule submittals to expedite the Project, and coordinate submission of related items.
G. For each submittal for review, allow 10 business days excluding delivery time to and from the Contractor for typical submittal reviews. Some products may require additional review time.
H. Identify variations from Contract Documents and Product or system limitations which may be detrimental to successful performance of the completed Work.
I. Provide space for Contractor and Architect review stamps.
J. When revised for resubmission, identify all changes made since previous submission.
K. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
L. Submittals not requested will not be recognized or processed.

END OF SECTION

SECTION 01 31 00
PROJECT MANAGEMENT AND COORDINATION

PART 1 GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY
A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
1. General coordination procedures.
2. Requests for Information (RFIs).
3. Project meetings.

1.3 INFORMATION SUBMITTALS
A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Use CSI Form 1.5A or form acceptable to Architect. Include the following information in tabular form:
1. Name, address, and telephone number of entity performing subcontract or supplying products.
2. Number and title of related Specification Section(s) covered by subcontract.
3. Drawing number and detail references, as appropriate, covered by subcontract.
B. Key Personnel Names: Prior to starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home, office, and cellular telephone numbers and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.

1.4 GENERAL COORDINATION PROCEDURES
A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work.
B. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection, and operation.
1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
3. Make adequate provisions to accommodate items scheduled for later installation.
C. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
D. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
a. Preparation of Contractor's construction schedule.
b. Preparation of the schedule of values.
c. Installation and removal of temporary facilities and controls.
d. Delivery and processing of submittals.
e. Progress meetings.
f. Preinstallation conferences.
1. Project closeout activities.
2. Startup and adjustment of systems.

1.5 REQUESTS FOR INFORMATION (RFIs)
A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
1. Project name.
2. Project number.
3. Date.
4. Name of Contractor.
5. Name of Architect.
6. RFI number, numbered sequentially.
7. RFI subject.
8. Specification Section number and title and related paragraphs, as appropriate.
9. Drawing number and detail references, as appropriate.
10. Field dimensions and conditions, as appropriate.
11. Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
12. Contractor's signature.
13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.
C. RFI Forms: AIA Document G716 or Software-generated form with substantially the same content as indicated above, acceptable to Architect.
1. Attachments shall be electronic files in Adobe Acrobat PDF format.
D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow (5) five working days for Architect's response for each RFI. RFIs that require response from more than 2 parties may require longer response times. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
1. The following Contractor-generated RFIs will be returned without action:
a. Requests for approval of submittals.
b. Requests for approval of substitutions.
c. Requests for approval of Contractor's means and methods.
d. Requests for coordination information already indicated in the Contract Documents.
e. Requests for adjustments in the Contract Time or the Contract Sum.
f. Requests for interpretation of Architect's actions on submittals.
g. Incomplete RFIs or inaccurately prepared RFIs.
2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Division 01 Section "Contract Modification Procedures."
E. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 10 days of receipt of the RFI response.
F. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. Use software log that is part of Project Web site. Include the following:
1. Project name.
2. Name and address of Contractor.
3. Name and address of Architect.
4. RFI number including RFIs that were returned without action or withdrawn.
5. RFI description.
6. Date the RFI was submitted.
7. Date Architect's response was received.
G. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within seven days if Contractor disagrees with response.
1. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.

1.6 PROJECT MEETINGS
A. General: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.
1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within three days of the meeting.
B. Preconstruction Conference: Schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect, but no later than 15 days after Notice to Proceed.
1. Conduct the conference to review responsibilities and personnel assignments.
2. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Discuss items of significance that could affect progress, including the following:
a. Tentative construction schedule.
b. Phasing.
c. Critical work sequencing and long-lead items.
d. Designation of key personnel and their duties.
e. Lines of communications.
f. Procedures for processing field decisions and Change Orders.
g. Procedures for RFIs.
h. Procedures for testing and inspecting.
i. Procedures for processing Applications for Payment.
j. Distribution of the Contract Documents.
k. Submittal procedures.
l. Preparation of record documents.
m. Use of the premises and existing building.
n. Work restrictions.
o. Working hours.
p. Owner's occupancy requirements.
q. Responsibility for temporary facilities and controls.
r. Procedures for moisture and mold control.
s. Procedures for disruptions and shutdowns.
t. Construction waste management and recycling.
u. Parking availability.
v. Office, work, and storage areas.
w. Equipment deliveries and priorities.
x. First aid.
y. Security.
z. Progress cleaning.
4. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.
C. Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity that requires coordination with other construction.
1. Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise Architect of scheduled meeting dates.
2. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:
a. Contract Documents.
b. Options.
c. Related RFIs.
d. Related Change Orders.
e. Purchases.
f. Deliveries.
g. Submittals.
h. Review of mockups.
i. Possible conflicts.
j. Compatibility requirements.
k. Time schedules.
l. Weather limitations.
m. Manufacturer's written instructions.
n. Warranty requirements.
o. Compatibility of materials.
p. Acceptability of substrates.
q. Temporary facilities and controls.
r. Space and access limitations.
s. Regulations of authorities having jurisdiction.
t. Testing and inspecting requirements.
u. Installation procedures.
v. Coordination with other work.
w. Required performance results.
x. Protection of adjacent work.
y. Protection of construction and personnel.
3. Record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.
4. Reporting: Distribute minutes of the meeting to each party present and to other parties requiring information.
5. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.
A. Progress Meetings: Conduct progress meetings at regular intervals as agreed upon with Owner and Architect.
1. Coordinate dates of meetings with preparation of payment requests.
2. Attendees: In addition to representatives of Owner and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
1. Review schedule for next period.
b. Review present and future needs of each entity present, including the following:
1. Interface requirements.
2. Sequence of operations.
3. Resolution of BIM component conflicts.
4. Status of submittals.
5. Deliveries.
6. Off-site fabrication.
7. Access.
8. Site utilization.
9. Temporary facilities and controls.
10. Progress cleaning.
11. Quality and work standards.
12. Status of correction of deficient items.
13. Field observations.
14. Status of RFIs.
15. Status of proposal requests.
16. Pending changes.
17. Status of Change Orders.
18. Pending claims and disputes.
19. Documentation of information for payment requests.
E. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.
1. Schedule Updating: Revise Contractor's construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 01 32 33
PHOTOGRAPHIC DOCUMENTATION

PART 1 GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY
A. Section includes administrative and procedural requirements for the following:
1. Preconstruction photographs.
2. Periodic construction photographs.
3. Final completion construction photographs.

1.3 INFORMATIONAL SUBMITTALS
A. Digital Photographs: Submit image files within three days of taking photographs.
1. Identification: Provide the following information with each image description in file metadata tag:
a. Date photograph was taken.
b. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.

1.4 USAGE RIGHTS
A. Obtain and transfer copyright usage rights from photographer to Owner and Architect for unlimited reproduction of photographic documentation.

PART 2 PRODUCTS
2.1 PHOTOGRAPHIC MEDIA
A. Digital Images: Provide images in JPG format, produced by a digital camera with minimum sensor size of 8 megapixels, and at an image resolution of not less than 3200 by 2400 pixels.
B. Digital Video Recordings: Provide high-resolution, digital video disc in format acceptable to Architect.

PART 3 EXECUTION
3.1 CONSTRUCTION PHOTOGRAPHS
A. General: Take photographs using the maximum range of depth of field, and that are in focus, to clearly show the Work. Photographs with blurry or out-of-focus areas will not be accepted.
1. Maintain key plan with each set of construction photographs that identifies each photographic location.
B. Digital Images: Submit digital images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.
a. Date and Time: Include date and time in file name for each image.
C. Preconstruction Photographs: Before starting construction, take photographs of Project site and surrounding properties, including existing items to remain during construction, from different vantage points, as directed by Architect.
1. Flag construction limits before taking construction photographs.
2. Take 20 photographs to show existing conditions adjacent to property before starting the Work.
3. Take 20 photographs of existing buildings either on or adjoining property to accurately record physical conditions at start of construction.
4. Take additional photographs as required to record settlement or cracking of adjacent structures, pavements, and improvements.
D. Periodic Construction Photographs: Take 20 photographs weekly, with timing each month adjusted to coincide with the cutoff date associated with each Application for Payment. Select vantage points to show status of construction and progress since last photographs were taken.
E. Final Completion Construction Photographs: Take 20 color photographs after date of Substantial Completion for submission as project record documents. Architect will inform photographer of desired vantage points.

END OF SECTION

SECTION 01 33 00
SUBMITTAL PROCEDURES

PART 1 GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY
A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

1.3 DEFINITIONS
A. Action Submittals: Written and graphic information and physical samples that require Architect's and Contractor's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's and Contractor's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."
C. File Transfer Protocol (FTP): Communications protocol that enables transfer of files to and from another computer over a network and that serves as the basis for standard Internet protocols. An FTP site is a portion of a network located outside of network firewalls within which internal and external users are able to access files.
D. Portable Document Format (PDF): An open standard file format licensed by Adobe Systems used for representing documents in a device-independent and display resolution-independent fixed-layout document format.

1.4 ACTION SUBMITTALS
A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.
1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
2. Final Submittal: Submit concurrently with the first complete submittal of Contractor's construction schedule.
a. Submit revised submittal schedule to reflect changes in current status and timing for submittals.
3. Format: Arrange the following information in a tabular format:
a. Scheduled date for first submittal.
b. Specification Section number and title.
c. Submittal category: Action; informational.
d. Name of subcontractor.
e. Description of the Work covered.
f. Scheduled date for Architect's final release or approval.
g. Scheduled date of fabrication.
4. Failure to deliver a submittal schedule with delivery dates to the architect voids the required response time.

1.5 SUBMITTAL ADMINISTRATIVE REQUIREMENTS
A. Architect's Digital Data Files: Electronic digital data files of the Contract Drawings may be provided by Architect for Contractor's use in preparing submittals at the discretion of the Architect.
1. Architect may furnish Contractor one set of digital data drawing files of the Contract Drawings for use in preparing Shop Drawings and Project record drawings only.
a. Architect makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
b. Digital Drawing Software Program: The Contract Drawings are available in ACA 2010.
c. Contractor shall execute a data licensing agreement in the form of AIA Document C106, Digital Data Licensing Agreement.
d. The following digital data files may be furnished for each appropriate discipline for use to create backgrounds:
1. Floor plans.
2. Reflected ceiling plans.
B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
b. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
5. Initial Review: Allow 10 working days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
6. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
7. Resubmittal Review: Allow 10 working days for review of each resubmittal.
8. Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 15 working days for initial review of each submittal.
9. Concurrent Consultant Review: Where the Contract Documents indicate that submittals may be transmitted simultaneously to Architect and to Architect's consultants, allow 10 working days for review of each submittal. Submittal will be returned to Architect before being returned to Contractor.
C. Paper Submittals: Place a permanent label or title block on each submittal item for identification.
1. Indicate name of firm or entity that prepared each submittal on label or title block.
2. Provide a space approximately 6 by 8 inches (150 by 200 mm) on label or beside title block to record Contractor's review and approval markings and action taken by Architect.
3. Include the following information for processing and recording action taken:
a. Project name.
b. Date.
c. Name of Architect.
d. Name of Contractor.
e. Name of subcontractor.
f. Name of supplier.
g. Name of manufacturer.
h. Submittal number or other unique identifier, including revision identifier.
1. Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).
i. Number and title of appropriate Specification Section.
j. Drawing number and detail references, as appropriate.
k. Location(s) where product is to be installed, as appropriate.
4. Additional Paper Copies: Unless additional copies are required for final submittal, and unless Architect observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.
a. Submit one copy of submittal to concurrent reviewer in addition to specified number of copies to Architect.
5. Transmittal for Paper Submittals: Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Architect will discard submittals received from sources other than Contractor.
a. Transmittal Form for Paper Submittals: Provide locations on form for the following information:
1. Project name.
2. Date.
3. Destination (To:).
4. Source (From:).
6. Name and address of Architect.
7. Name of Contractor.
8. Name of firm or entity that prepared submittal.
9. Names of subcontractor, manufacturer, and supplier.
10. Category and type of submittal.
11. Submittal purpose and description.
12. Specification Section number and title.
13. Specification paragraph number or drawing designation and generic name for each of multiple items.
14. Drawing number and detail references, as appropriate.
15. Indication of full or partial submittal.
16. Transmittal number, numbered consecutively.
17. Submittal and transmittal distribution record.
18. Remarks.
19. Signature of transmitter.
D. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:
1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
2. Name file with submittal number or other unique identifier, including revision identifier.
a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-061000.01.A).

BDP
BOGGS DESIGN PARTNERS
Architecture + Interiors
607 S. ALEXANDER ST.
SUITE 101
PLANT CITY, FL 33563
813 . 946 . 8444

DATE:
ERICA AZORIN CRAIG
FL REG. NO. AR101635
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERICA AZORIN CRAIG ON THE DATE ADJACENT TO THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG/NP/MM
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ARCHITECTURAL SPECIFICATIONS

SHEET NO:
G-011

3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.
4. Transmittal Form for Electronic Submittals: Use electronic form acceptable to Owner and Architect, containing the following information:
   a. Project name.
   b. Date.
   c. Name and address of Architect.
   d. Name of Contractor.
   e. Name of firm or entity that prepared submittal.
   f. Names of subcontractor, manufacturer, and supplier.
   g. Category and type of submittal.
   h. Submittal purpose and description.
   i. Specification Section number and title.
   j. Specification paragraph number or drawing designation and generic name for each of multiple items.
   k. Drawing number and detail references, as appropriate.
   l. Location(s) where product is to be installed, as appropriate.
   m. Related physical samples submitted directly.
   n. Indication of full or partial submittal.
   o. Transmittal number, numbered consecutively.
   p. Submittal and transmittal distribution record.
   q. Other necessary identification.
   r. Remarks.
5. Metadata: Include the following information as keywords in the electronic submittal file metadata:
   a. Project name.
   b. Number and title of appropriate Specification Section.
   c. Manufacturer name.
   d. Product name.
   e. Options: Identify options requiring selection by Architect.
   f. Deviations and Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.
   g. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
6. Note date and content of previous submittal.
7. Note date and content of revision in label or title block and clearly indicate extent of revision.
8. Resubmit submittals until they are marked with approval notation from Architect's and Contractor's action stamp.

C. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

D. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's and Contractor's action stamp.

PART 2 PRODUCTS

2.1 SUBMITTAL PROCEDURES

A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
1. Action Submittals: Submit two paper copies of each submittal unless otherwise indicated. Architect will return a pdf file electronically via email or to architects FTP site, or to project website if created.
2. Informational Submittals: Submit two paper copies of each submittal unless otherwise indicated. Architect will not return copies.
3. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
   a. Provide a digital signature with digital certificate on electronically submitted certificates and certifications where indicated.
   b. Provide a notarized statement on original paper copy certificates and certifications where indicated.
   c. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
4. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
5. Mark each copy of each submittal to show which products and options are applicable.
6. Include the following information, as applicable:
   a. Manufacturer's catalog cuts.
   b. Manufacturer's product specifications.
   c. Standard color charts.
   d. Statement of compliance with specified referenced standards.
   e. Testing by recognized testing agency.
   f. Application of testing agency labels and seals.
   g. Notation of coordination requirements.
   h. Availability and delivery time information.
7. For equipment, include the following in addition to the above, as applicable:
   a. Wiring diagrams showing factory-installed wiring.
   b. Printed performance curves.
   c. Operational range diagrams.
   d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
8. Submit Product Data before or concurrent with Samples.
9. Submit Product Data in the following format:
   a. Two paper copies of Product Data unless otherwise indicated.

B. Architect will return a pdf electronic file.

C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless submittal based on Architect's digital data drawing files is otherwise permitted.
1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
   a. Identification of products.
   b. Schedules.
   c. Compliance with specified standards.
   d. Notation of coordination requirements.
   e. Notation of dimensions established by field measurement.
   f. Relationship and attachment to adjoining construction clearly indicated.
   g. Seal and signature of professional engineer if specified.
2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches (215 by 280 mm), but no larger than 30 by 42 inches (750 by 1067 mm).
3. Submit Shop Drawings in the following format:
   a. Two opaque copies of each submittal. Architect will retain both copies; a pdf electronic file will be returned.
   b. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
4. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
5. Identification: Attach label on unexposed side of Samples that includes the following:
   a. Generic description of Sample.
   b. Product name and name of manufacturer.
   c. Sample source.
   d. Number and title of applicable Specification Section.
   e. Specification paragraph number and generic name of each item.
6. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
   a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
   b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
7. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
   a. Number of Samples: Submit two full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
8. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
   a. Number of Samples: Submit three sets of Samples. Architect will retain two Sample sets; remainder will be returned. Contractor shall retain one returned Sample set as a project record sample.
      1. Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
      2. If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.
   b. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
9. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
10. Manufacturer and product name, and model number if applicable.
11. Number and name of room or space.
12. Location within room or space.
13. Submit product schedule in the following format:
   a. Two paper copies of product schedule or list unless otherwise indicated. Architect will return a pdf electronic file.
   b. Coordination Drawing Submittals: Comply with requirements specified in Division 01 Section "Project Management and Coordination."
   c. Contractor's Construction Schedule: Comply with requirements specified in Division 01 Section "Construction Progress Documentation."
   d. Application for Payment and Schedule of Values: Comply with requirements specified in Division 01 Section "Payment Procedures."
   e. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Division 01 Section "Quality Requirements."
   f. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Division 01 Section "Closeout Procedures."
   g. Maintenance Data: Comply with requirements specified in Division 01 Section "Operation and Maintenance Data."
   h. Sustainable Protocol Submittals (Green Globes, LEED): Comply with requirements specified in Division 01 sustainable design requirements Section.
   i. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
   j. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.
   k. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
   l. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
   m. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
   n. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
   o. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
   p. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
   q. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
14. Name of evaluation organization.
15. Date of evaluation.
16. Time period when report is in effect.
17. Product and manufacturers' names.
18. Description of product.
19. Test procedures and results.
20. Limitations of use.

D. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.

E. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.

F. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

G. Design Data: Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

2.2 DELEGATED-DESIGN SERVICES

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

B. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
   A. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF electronic file and three paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.

C. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services

PART 3 EXECUTION

3.1 CONTRACTOR'S REVIEW

A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.

B. Project Closeout and Maintenance Material Submittals: See requirements in Division 01 Section "Closeout Procedures."

C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

A. Action Submittals: Architect will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.

B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.

C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect.

D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.

E. Submittals not required by the Contract Documents may be returned by the Architect without action.

END OF SECTION

SECTION 01 40 00
QUALITY REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. References and standards.
B. Testing
C. Control of installation.

1.2 REFERENCES AND STANDARDS

A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes and/ or construction documents.
B. Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
C. Obtain copies of standards where required by product specification sections.
D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
F. Neither the contractual relationships, duties, nor responsibilities of the parties in Contract nor those of Architect shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

1.3 TESTING

A. The Contractor shall provide inspections, tests, and similar quality control services specific in the individual specification sections. Except where noted to be the Owner's responsibility, or provided by another entity, these services include those specified to be performed by an independent agency and not by the Contractor. However, these services shall be coordinated by the contractor and the costs included in the Contract Sum.
B. The Contractor is responsible for retesting costs associated with any testing that fails to comply with contract document requirements.
C. The independent testing agencies engaged to perform inspections, sampling and testing of materials shall cooperate with Architect and Contractor in the performance of its duties and shall only provide qualified personnel to perform inspections and tests. The agency shall promptly notify the architect and contractor if irregularities or deficiencies are observed. The agency is not authorized to alter the requirements of the Contract Documents. The agency shall submit a certified computer written report of each inspection, test, etc.

PART 2 EXECUTION

2.1 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
B. Comply with manufacturers' instructions, including each step-in sequence.
C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
E. Have Work performed by persons qualified to produce required and specified quality.
F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

END OF SECTION

SECTION 01 50 00
TEMPORARY FACILITIES & CONTROLS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Temporary utilities.
B. Temporary telephone service.
C. Temporary sanitary facilities.
D. Temporary Controls: Barriers, enclosures, and fencing.
E. Security requirements.
F. Vehicular access and parking.
G. Waste removal facilities and services.
H. Project identification sign.
I. Field offices.

1.2 TEMPORARY UTILITIES

A. Provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.
B. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return air grille in system and remove at end of construction.

1.3 TELEPHONE AND DATA SERVICE

A. Provide, maintain, and pay for telephone and computer service to field office at time of project mobilization and during the construction process.

1.4 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
B. Maintain daily in clean and sanitary condition.

1.5 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
B. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.6 FENCING

A. Construction: Galvanized chain-link.
B. Provide 6-foot-high fence around construction site; equip with vehicular and pedestrian gates with locks as required.

1.7 VEHICULAR ACCESS AND PARKING

A. Coordinate access and haul routes with governing authorities and Owner.
B. Provide and maintain access to fire hydrants, free of obstructions.
C. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.

1.8 WASTE REMOVAL

A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
B. Provide containers with lids. Remove trash from site weekly.
C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable noncombustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.
D. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

1.9 PROJECT IDENTIFICATION

A. Provide project identification sign of design and construction indicated on Drawings.
B. No other signs are allowed without Owner permission except those required by law.

1.10 FIELD OFFICES

A. Weather-tight, with lighting, electrical outlets, heating, cooling equipment, and equipped with sturdy furniture and drawing display table with telephone fax machine, and e-mail.
B. Provide space for Project meetings, with table and chairs to accommodate 8 persons.
C. Drinking water, temporary fire protection, & first aid supplies shall be available on site.

1.11 REMOVAL OF UTILITIES, FACILITIES AND CONTROLS

A. Remove temporary utilities, equipment, facilities, materials, prior to Substantial Completion inspection.
B. Clean and repair damage caused by installation or use of temporary work.
C. Restore existing facilities used during construction to original condition.
D. Restore new permanent facilities used during construction to specified condition.

END OF SECTION

SECTION 01 60 00
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Transportation, handling, storage, and protection.
B. Product option requirements.
C. Substitution limitations and procedures.

1.2 SUBMITTALS

A. Proposed Products List: Submit list of products proposed for use, with name of manufacturer, trade name, and model number of each product.
   1. Submit within 30 days after date of Notice to Proceed.
   2. For products specified only by reference standards, list applicable reference standards.
B. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
C. Shop Drawing Submittals: Prepared specifically for this Project.
D. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
   1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.
E. Indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

PART 2 PRODUCTS

2.1 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.
C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

PART 3 EXECUTION

3.1 SUBSTITUTION PROCEDURES

A. Substitutions requested by bidders during the bid process and accepted prior to Contract award are considered a part of the Contract Documentation. Products equal to those specified will be considered for approval for this project. The proof of equality is the responsibility of the submitter and the Architect may reject any such submittal that is in their opinion not equal and/or does not have documentation that completely explains the equality. The data explaining equality must contain the same data, in a similar format so that an easy comparison can be made. The approval of this type of substitution shall be the approval of the shop drawing and/or product data submittal.
B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
C. A request for substitution constitutes a representation that the submitter:
   1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
   2. Will provide the same warranty for the substitution as for the specified product.
   3. Will coordinate installation and make changes to other Work which may be required for the Work to be complete with no additional cost to Owner.
   4. Waives claims for additional costs or time extension which may subsequently become apparent.
D. Substitution Submittal Procedure:
   1. Submit three copies of request for substitution. Limit each request to one proposed substitution.
   2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.
   3. The Architect will notify Contractor in writing of decision to accept or reject request.

3.2 TRANSPORTATION AND HANDLING

A. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
B. Transport and handle products in accordance with manufacturer's instructions.
C. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
D. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
E. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.
F. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.3 STORAGE AND PROTECTION

A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.
B. Store and protect products in accordance with manufacturers' instructions.
C. Store with seals and labels intact and legible.
D. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.
E. For exterior storage of fabricated products, place on sloped supports above ground.
F. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
G. Prevent contact with material that may cause corrosion, discoloration, or staining.
H. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
I. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undam- aged and are maintained in acceptable condition.

END OF SECTION

SECTION 01 70 00
EXECUTION & CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Examination, preparation, and general installation procedures.
B. Requirements for alterations work, including selective demolition, except removal, disposal, and/or remediation of hazardous materials and toxic substances.
C. Cutting and patching.
D. Cleaning and protection.
E. Demonstration and instruction of Owner personnel.
F. Closeout procedures, except payment procedures.
G. Warrantees and Bonds

PART 2 PRODUCTS

2.1 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.
C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 01 60 00.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
C. Examine and verify specific conditions described in individual specification sections.
D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or mis-fabrication.
E. Verify that utility services are available, of the correct characteristics, and in the correct locations.
F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work; beginning of cutting or patching means acceptance of existing conditions.

3.2 PREPARATION

A. Clean substrate surfaces prior to applying next material or substance.
B. Seal cracks or openings of substrate prior to applying next material or substance.
C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.3 LAYING OUT THE WORK

A. Verify locations of survey control points prior to starting work.
B. Promptly notify Architect of any discrepancies discovered.
C. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect.
D. Utilize recognized engineering survey practices.
E. Establish elevations, lines, and levels. Locate and lay out by instrumentation and similar appropriate means:
   1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
   2. Grid or axis for structures.
   3. Building foundation, column locations, ground floor elevations.
F. Periodically verify layouts by same means.
G. Maintain a complete and accurate log of control and survey work as it progresses.

3.4 GENERAL INSTALLATION REQUIREMENTS

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.5 CUTTING AND PATCHING

A. Execute cutting and patching including excavation and fill to complete the work, to uncover work in order to install improperly sequenced work, to remove and replace defective or non-conforming work, to remove samples of installed work for testing when requested, to provide openings in the work for penetration of mechanical and electrical work, to execute patching to complement adjacent work, and to fit products together to integrate with other work.
B. Execute work by methods to avoid damage to other work, and which will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
C. Employ skilled and experienced installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
D. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
E. Restore work with new products in accordance with requirements of Contract Documents.
F. Fit work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
G. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material, to full thickness of the penetrated element.
H. Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
I. Make neat transitions. Patch work to match adjacent work in texture and appearance.

3.6 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

3.7 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.
B. Provide special protection where specified in individual specification sections.
C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
G. Remove protective coverings when no longer needed; reuse or recycle plastic coverings if possible.

3.8 DEMONSTRATION AND INSTRUCTION

A. Demonstrate operation and maintenance of products to Owner's personnel two weeks prior to date of final inspection.
B. Demonstrate start-up, operation, control, adjustment, troubleshooting, servicing, maintenance, and shut- down of each item of equipment at agreed time, at the project site.

3.9 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

3.10 FINAL CLEANING

A. Execute final cleaning prior to final project assessment.
B. Use cleaning materials that are nonhazardous.
C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains, and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
D. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
E. Replace filters of operating equipment.
F. Clean debris from roofs, gutters, downspouts, and drainage systems.
G. Clean site; sweep paved areas, rake clean landscaped surfaces.
H. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner, do not burn or bury.

3.11 CLOSEOUT PROCEDURES

A. Substantial completion:
   1. Before requesting inspection for certification of substantial completion all portions of the work shall show 100% completion on the prior payment request. If 100% completion cannot be shown, include a list of incomplete items that identifies the value of each item and a reason that item is not complete.
   2. Advise owner of pending insurance change-over requirements. Submit specific warranties, bonds, maintenance agreements, final certifications, etc.
   3. Submit a release that grants Owner unrestricted use of project. Submit record drawings, maintenance manuals, certified as-built survey and any other final record data.
   4. Deliver tools, spare parts, extra stock, and similar items.
   5. Complete start-up testing of all systems and provide operating and maintenance training to Owner's personnel.

B. Inspection procedures: The Architect will only make inspections after Contractor has make their inspection and stipulates the project is ready for inspection. The Architect will make one re-inspection to determine compliance to the Contract Documents, additional re-inspection's costs shall be the responsibility of the Contractor. The inspection process does not relieve the Contractor's responsibility for compliance with all the Contract Documentation.

C. Final Acceptance: before requesting the final inspection for certification of final acceptance and final payment the following must occur.
   1. Submit the final payment request complete with releases and any remaining required submittals not already accepted and approved.
   2. Submit proof that all temporary utilities bills have been paid in full.
   3. Submit consent of surety to final payment.
   4. Submit evidence of final, continuing insurance coverage complying with Contract Documents.
   5. Submit certified copy of Architect's final inspection with statement that all items have been corrected or otherwise resolved for acceptance; and, that this list has been signed and dated by the Architect.

3.12 WARRANTIES AND BONDS

A. Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the Project.
B. When correcting warranted work that has failed, remove, and replace other work that has been damaged as a result of such failure or that must be removed and replaced to access the corrective warranty work.
C. Corrective work shall have warranty reinstated by written endorsement and the reinstated warranty shall be equal to the original with an equitable adjustment for depreciation.
D. Corrective warranty work shall comply with the original Contract Documents. The Contractor shall be responsible for the cost of corrective work regardless of whether the Owner has benefited from use of the work through a portion of its anticipated useful service life.

END OF SECTION

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No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP/MM
DRAWN BY:	JG/NP/MM
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ARCHITECTURAL SPECIFICATIONS

SHEET NO:
G-012

BALDWIN ROOFING CO
ROOFING CO

BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

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SECTION 01 78 23
OPERATION AND MAINTENANCE DATA

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following:

1. Operation and maintenance documentation directory.
2. Emergency manuals.
3. Operation manuals for systems, subsystems, and equipment.
4. Product maintenance manuals.
5. Systems and equipment maintenance manuals.

1.3 DEFINITIONS

A. System: An organized collection of parts, equipment, or subsystems united by regular interaction.

B. Subsystem: A portion of a system with characteristics similar to a system.

1.4 CLOSEOUT SUBMITTALS

A. Manual Content: Operations and maintenance manual content is specified in individual Specification Sections to be reviewed at the time of Section submittals. Submit reviewed manual content formatted and organized as required by this Section.

1. Architect and Commissioning Authority will comment on whether content of operations and maintenance submittals are acceptable.
2. Where applicable, clarify and update reviewed manual content to correspond to revisions and field conditions.

A. Format: Submit operations and maintenance manuals in the following formats:

3. PDF electronic file. Assemble each manual into a composite electronically indexed file. Submit on digital media acceptable to Architect.
   a. Name each indexed document file in composite electronic index with applicable item name. Include a complete electronically linked operation and maintenance directory.
   b. Enable inserted reviewer Comments on draft submittals.
4. One paper copy. Include a complete operation and maintenance directory. Enclose title pages and directories in clear plastic sleeves. Architect will return copy.

A. Initial Manual Submittal: Submit draft copy of each manual at least 30 days before commencing demonstration and training. Architect and Commissioning Authority will comment on whether general scope and content of manual are acceptable.

B. Final Manual Submittal: Submit each manual in final form prior to requesting inspection for Substantial Completion and at least 15 days before commencing demonstration and training. Architect and Commissioning Authority will return copy with comments.

5. Correct or revise each manual to comply with Architect's and Commissioning Authority's comments. Submit copies of each corrected manual within 15 days of receipt of Architect's and Commissioning Authority's comments and prior to commencing demonstration and training.

PART 2 PRODUCTS

2.1 OPERATION AND MAINTENANCE DOCUMENTATION DIRECTORY

A. Directory: Prepare a single, comprehensive directory of emergency, operation, and maintenance data and materials, listing items and their location to facilitate ready access to desired information. Include a section in the directory for each of the following:

1. List of documents.
2. List of systems.
3. List of equipment.
4. Table of contents.

A. List of Systems and Subsystems: List systems alphabetically. Include references to operation and maintenance manuals that contain information about each system.

B. List of Equipment: List equipment for each system, organized alphabetically by system. For pieces of equipment not part of system, list alphabetically in separate list.

C. Tables of Contents: Include a table of contents for each emergency, operation, and maintenance manual.

D. Identification: In the documentation directory and in each operation and maintenance manual, identify each system, subsystem, and piece of equipment with same designation used in the Contract Documents. If no designation exists, assign a designation according to ASHRAE Guideline 4, "Preparation of Operating and Maintenance Documentation for Building Systems."

2.2 REQUIREMENTS FOR EMERGENCY, OPERATION, AND MAINTENANCE MANUALS

A. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain the following materials, in the order listed:

1. Title page.
2. Table of contents.
3. Manual contents.

B. Title Page: Include the following information:

1. Subject matter included in manual.
2. Name and address of Project.
3. Name and address of Owner.
4. Date of submittal.
5. Name and contact information for Contractor.
6. Name and contact information for Architect.
7. Name and contact information for Commissioning Authority.
8. Names and contact information for major consultants to the Architect that designed the systems contained in the manuals.
9. Cross-reference to related systems in other operation and maintenance manuals.

A. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.

10. If operation or maintenance documentation requires more than one volume to accommodate data, include comprehensive table of contents for all volumes in each volume of the set.

A. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.

B. Manuals, Electronic Files: Submit manuals in the form of a multiple file composite electronic PDF file for each manual type required.

11. Electronic Files: Use electronic files prepared by manufacturer where available. Where scanning of paper documents is required, configure scanned file for minimum readable file size.
12. File Names and Bookmarks: Enable bookmarking of individual documents based on file names. Name document files to correspond to system, subsystem, and equipment names used in manual directory and table of contents. Group documents for each system and subsystem into individual composite bookmarked files, then create composite manual, so that resulting bookmarks reflect the system, subsystem, and equipment names in a readily navigated file tree. Configure electronic manual to display bookmark panel on opening file.

A. Manuals, Paper Copy: Submit manuals in the form of hard copy, bound and labeled volumes.

13. Binders: Heavy-duty, three-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, sized to hold 8-1/2-by-11-inch (215-by-280-mm) paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.
    a. If two or more binders are necessary to accommodate data of a system, organize data in each binder into groupings by subsystem and related components. Cross-reference other binders if necessary to provide essential information for proper operation or maintenance of equipment or system.
    b. Identify each binder on front and spine, with printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name, and subject matter of contents, and indicate Specification Section number on bottom of spine. Indicate volume number for multiple-volume sets.
14. Dividers: Heavy-paper dividers with plastic-covered tabs for each section of the manual. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
15. Protective Plastic Sleeves: Transparent plastic sleeves designed to enclose diagnostic software storage media for computerized electronic equipment.
16. Supplementary Text: Prepared on 8-1/2-by-11-inch (215-by-280-mm) white bond paper.
17. Drawings: Attach reinforced, punched binder tabs on drawings and bind with text.
    a. If oversize drawings are necessary, fold drawings to same size as text pages and use as foldouts.
    b. If drawings are too large to be used as foldouts, fold and place drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating drawing titles, descriptions of contents, and drawing locations.

2.3 EMERGENCY MANUALS

A. Content: Organize manual into a separate section for each of the following:

B. Type of emergency.
C. Emergency instructions.
D. Emergency procedures.
E. Type of Emergency: Where applicable for each type of emergency indicated below, include instructions and procedures for each system, subsystem, piece of equipment, and component:

1. Fire.
2. Flood.
3. Gas leak.
4. Water leak.
5. Power failure.
6. Water outage.
7. System, subsystem, or equipment failure.
8. Chemical release or spill.

F. Emergency Instructions: Describe and explain warnings, trouble indications, error messages, and similar codes and signals. Include responsibilities of Owner's operating personnel for notification of Installer, supplier, and manufacturer to maintain warranties.
G. Emergency Procedures: Include the following, as applicable:

1. Instructions on stopping.
2. Shutdown instructions for each type of emergency.
3. Operating instructions for conditions outside normal operating limits.
4. Required sequences for electric or electronic systems.
5. Special operating instructions and procedures.

2.4 OPERATION MANUALS

A. Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and the following information:

1. System, subsystem, and equipment descriptions. Use designations for systems and equipment indicated on Contract Documents.
2. Performance and design criteria if Contractor has delegated design responsibility.
3. Operating standards.
4. Operating procedures.
5. Operating logs.
6. Wiring diagrams.
7. Control diagrams.
8. Piped system diagrams.
9. Precautions against improper use.
10. License requirements including inspection and renewal dates.

B. Descriptions: Include the following:

1. Product name and model number. Use designations for products indicated on Contract Documents.
2. Manufacturer's name.
3. Equipment identification with serial number of each component.
4. Equipment function.
5. Operating characteristics.
6. Limiting conditions.
7. Performance curves.
8. Engineering data and tests.
9. Complete nomenclature and number of replacement parts.

C. Operating Procedures: Include the following, as applicable:

1. Startup procedures.
2. Equipment or system break-in procedures.
3. Routine and normal operating instructions.
4. Regulation and control procedures.
5. Instructions on stopping.
6. Normal shutdown instructions.
7. Seasonal and weekend operating instructions.
8. Required sequences for electric or electronic systems.
9. Special operating instructions and procedures.

D. Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.
E. Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.

2.5 PRODUCT MAINTENANCE MANUALS

A. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.
B. Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual and drawing or schedule designation or identifier where applicable.
C. Product Information: Include the following, as applicable:

1. Product name and model number.
2. Manufacturer's name.
3. Color, pattern, and texture.
4. Material and chemical composition.
5. Reordering information for specially manufactured products.

D. Maintenance Procedures: Include manufacturer's written recommendations and the following:

1. Inspection procedures.
2. Types of cleaning agents to be used and methods of cleaning.
3. List of cleaning agents and methods of cleaning detrimental to product.
4. Schedule for routine cleaning and maintenance.
5. Repair instructions.

A. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.

B. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

1. Include procedures to follow and required notifications for warranty claims.

2.6 SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS

A. Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranty and bond information, as described below.
B. Source Information: List each system, subsystem, and piece of equipment included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual and drawing or schedule designation or identifier where applicable.

1. Manufacturers' Maintenance Documentation: Manufacturers' maintenance documentation including the following information for each component part or piece of equipment:
2. Standard maintenance instructions and bulletins.
3. Drawings, diagrams, and instructions required for maintenance, including disassembly and component removal, replacement, and assembly.
4. Identification and nomenclature of parts and components.
5. List of items recommended to be stocked as spare parts.

C. Maintenance Procedures: Include the following information and items that detail essential maintenance procedures:

1. Test and inspection instructions.
2. Troubleshooting guide.
3. Precautions against improper maintenance.
4. Disassembly; component removal, repair, and replacement; and reassembly instructions.
5. Aligning, adjusting, and checking instructions.
6. Demonstration and training video recording, if available.

D. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.

1. Scheduled Maintenance and Service: Tabulate actions for daily, weekly, monthly, quarterly, semiannual, and annual frequencies.
2. Maintenance and Service Record: Include manufacturers' forms for recording maintenance.

E. Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturers' maintenance documentation and local sources of maintenance materials and related services.
F. Maintenance Service Contracts: Include copies of maintenance agreements with name and telephone number of service agent.
G. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

1. Include procedures to follow and required notifications for warranty claims.

PART 3 EXECUTION

3.1 MANUAL PREPARATION

A. Emergency Manual: Assemble a complete set of emergency information indicating procedures for use by emergency personnel and by Owner's operating personnel for types of emergencies indicated.
B. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.
C. Operation and Maintenance Manuals: Assemble a complete set of operation and maintenance data indicating operation and maintenance of each system, subsystem, and piece of equipment not part of a system.

1. Engage a factory-authorized service representative to assemble and prepare information for each system, subsystem, and piece of equipment not part of a system.
2. Prepare a separate manual for each system and subsystem, in the form of an instructional manual for use by Owner's operating personnel.

D. Manufacturers' Data: Where manuals contain manufacturers' standard printed data, include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.

1. Prepare supplementary text if manufacturers' standard printed data are not available and where the information is necessary for proper operation and maintenance of equipment or systems.

A. Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in record Drawings to ensure correct illustration of completed installation.

1. Do not use original project record documents as part of operation and maintenance manuals.
2. Comply with requirements of newly prepared record Drawings in Division 01 Section "Project Record Documents."

B. Comply with Division 01 Section "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

END OF SECTION

SECTION 01 78 39
PROJECT RECORD DOCUMENTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for project record documents, including the following:

1. Record Drawings.
2. Record Specifications.
3. Record Product Data.
4. Miscellaneous record submittals.

1.3 CLOSEOUT SUBMITTALS

A. Record Drawings: Comply with the following:

1. Number of Copies: Submit one set(s) of marked-up record prints.
2. Number of Copies: Submit copies of record Drawings as follows:
   a. Initial Submittal:
3. Submit one paper-copy set of marked-up record prints.
4. Architect will indicate whether general scope of changes, additional information recorded, and quality of drafting are acceptable.
   b. Final Submittal:
      1. Submit PDF electronic files of scanned record prints and three set(s) of prints.
      2. Print each drawing, whether or not changes and additional information were recorded.

B. Record Specifications: Submit one paper copy and annotated PDF electronic files of Project's Specifications, including addenda and contract modifications.
C. Record Product Data: Submit one paper copy and annotated PDF electronic files and directories of each submittal.

1. Where record Product Data are required as part of operation and maintenance manuals, submit duplicate marked-up Product Data as a component of manual.

A. Miscellaneous Record Submittals: See other Specification Sections for miscellaneous record-keeping requirements and submittals in connection with various construction activities. Submit one paper copy and annotated PDF electronic files and directories of each submittal.
B. Reports: Submit written report indicating items incorporated into project record documents concurrent with progress of the Work, including revisions, concealed conditions, field changes, product selections, and other notations incorporated.

PART 2 PRODUCTS

2.1 RECORD DRAWINGS

A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued.

1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.

B. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
C. Accurately record information in an acceptable drawing technique.
D. Record data as soon as possible after obtaining it.
E. Record and check the markup before enclosing concealed installations.
F. Cross-reference record prints to corresponding archive photographic documentation.

1. Content: Types of items requiring marking include, but are not limited to, the following:

G. Dimensional changes to Drawings.
H. Revisions to details shown on Drawings.
I. Depths of foundations below first floor.
J. Locations and depths of underground utilities.
K. Revisions to routing of piping and conduits.
L. Revisions to electrical circuitry.
M. Actual equipment locations.
N. Duct size and routing.
O. Locations of concealed internal utilities.
P. Changes made by Change Order or Construction Change Directive.
Q. Changes made following Architect's written orders.
R. Details not on the original Contract Drawings.
S. Field records for variable and concealed conditions.
T. Record information on the Work that is shown only schematically.

1. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
2. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
3. Mark important additional information that was either shown schematically or omitted from original Drawings.
4. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.

B. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, review marked-up record prints with Architect. When authorized, prepare a full set of corrected digital data files of the Contract Drawings, as follows:

1. Format: Annotated PDF electronic file with comment function enabled.
2. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
3. Refer instances of uncertainty to Architect for resolution.

C. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.

1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
2. Format: Annotated PDF electronic file with comment function enabled.
3. Identification: As follows:
   a. Project name.
   b. Date.
   c. Designation "PROJECT RECORD DRAWINGS."
   d. Name of Architect.
   e. Name of Contractor.

2.2 RECORD SPECIFICATIONS

A. Preparation: Mark Specifications to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
4. Note related Change Orders, record Product Data, and record Drawings where applicable.

B. Format: Submit record Specifications as annotated PDF electronic file and paper copy.

2.3 RECORD PRODUCT DATA

A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
3. Note related Change Orders, record Specifications, and record Drawings where applicable.

B. Format: Submit record Product Data as annotated PDF electronic file and paper copy.

1. Include record Product Data directory organized by Specification Section number and title, electronically linked to each item of record Product Data.

2.4 MISCELLANEOUS RECORD SUBMITTALS

A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.
B. Format: Submit miscellaneous record submittals as PDF electronic file and paper copy.

1. Include miscellaneous record submittals directory organized by Specification Section number and title, electronically linked to each item of miscellaneous record submittals.

PART 3 EXECUTION

3.1 RECORDING AND MAINTENANCE

A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.
B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's and Contractor's reference during normal working hours.

END OF SECTION

SECTION 01 78 00
CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Project Record Documents
B. Operation and Maintenance Data
C. Warranties and bonds.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.1 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents, record actual revisions to the Work:

1. Drawings
2. Specifications
3. Addenda
4. Change Orders and other modifications to the Contract.
5. Reviewed shop drawings, product data, and samples.

B. Ensure entries are complete and accurate, enabling future reference by Owner.
C. Store record documents separate from documents used for construction.
D. Record information concurrent with construction progress.
E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following?

1. Manufacturer's name and product model and number.
2. Product substitutions or alternates utilized.
3. Changes made by Addenda and modifications.

F. As-Build Drawings and Shop Drawings: Legibly mark each to record actual construction including;

1. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
2. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
3. Field changes of dimension and detail.
4. Details not on original Contract drawings.

3.2 OPERATION AND MAINTENANCE DATA

A. For Each Product or System: List names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.
B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.
C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.
D. Type Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

3.3 OPERATIONS AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

A. For Each Product, Applied Material and Finish:
B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

3.4 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

A. For Each Item of Equipment and Each System:

1. Description of unit or system, and component parts.
2. Identify function, normal operating characteristics, and limiting conditions.
3. Include performance curves, with engineering data and tests.
4. Complete nomenclature and model number of replaceable parts

B. Operating Procedures: Include start-up, break- in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.
C. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and troubleshooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing and checking instructions.
D. Provide servicing and lubrication schedule, and list lubricants required.
E. Include manufacturer's printed operation and maintenance instructions.
F. Include sequence of operation by controls manufacturer.
G. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
H. Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
I. Additional Requirements: As specified in individual product specification sections.

3.5 OPERATION AND MAINTENANCE MANUALS

A. Prepare instructions and data by personnel experienced in maintenance and operation of described products.
B. Prepare data in the form of an instructional manual.
C. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.
D. Provide tabbed dividers for each separate product and system, with typed description of product and major component parts of equipment.
E. Arrange content by systems under section numbers and sequence of Table of Contents of the Project Manual.
F. Contents: Prepare a Table of Contents for each volume, with each product or system description identified, in three parts as follows:

1. Part 1: Directory, listing names addresses, and telephone numbers of Architect, Contractor, Subcontractors, and major equipment suppliers.
2. Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names and addresses, and telephone numbers of Subcontractors and suppliers. Identify the following:
   a. Significant design criteria
   b. List of equipment.
   c. Parts list for each component.
   d. Operating instructions.
   e. Maintenance instructions for equipment and systems.
   f. Maintenance instructions for special finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.
3. Part 3: Project documents and certificates, including the following:
   a. Shop drawings and product data.
   b. Air and water balance reports.
   c. Certificates
   d. Photocopies of warranties and bonds.

G. Table of Contents: Provide title of Project; names, addresses, and telephone numbers of Architect, Consultants, and Contractor with name of responsible parties; schedule of products and systems, indexed to content of the volume.

3.6 WARRANTIES AND BONDS

A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until the Date of Substantial completion is determined.
B. Verify that documents are in proper form, contain full information, and are notarized.
C. Co-execute submittals when required.
D. Retain warranties and bonds until time specified for submittal.
E. Include originals of each in operation and maintenance manuals, indexed separately on Table of Contents.

END OF SECTION

SECTION 03 35 11
CONCRETE FINISHING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Surface treatments for concrete floors and slabs.

1.2 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete: Finishing of concrete surface to tolerance; floating, troweling, and similar operations; curing.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the work with concrete floor placement and concrete floor curing.

1.4 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Manufacturer's published data on each finishing product, including Information on compatibility of different products and limitations.
C. Maintenance Data: Provide data on maintenance and renewal of applied finishes.

1.5 MOCK-UP

A. For coatings, construct mock-up area under conditions similar to those that will exist during application, with coatings applied.
B. Mock-Up Size: 10 feet (3 m) square.
C. Locate where directed.
D. Mock-up may remain as part of the work.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer's sealed packaging, including application instructions.
B. Colored Admixture: Comply with manufacturer's instructions. Deliver colored admixtures in original, unopened packaging. Store in dry conditions.

1.7 FIELD CONDITIONS

A. Maintain light level equivalent to a minimum 200 W light source at 8 feet (2.5 m) above the floor surface over each 20 foot (6 m) square area of floor being finished.
B. Maintain ambient temperature of 50 degrees F (10 degrees C) minimum.

PART 2 PRODUCTS

2.1 CONCRETE FLOOR FINISH APPLICATIONS

A. Unless otherwise indicated, all concrete floors are to be finished using polished concrete finish.

2.2 COATINGS

A. High Gloss Clear Sealer: Transparent, non-yellowing, water-based coating.

1. Composition: Acrylic polymer-based.
2. Nonvolatile Content: 40 percent, minimum, when measured by volume.
3. Products:
   a. W.R. Meadows, Inc; Deck-O-Grip *W*/B (slip-resistant); HYPERLINK "http://www.wmeadows.com"www.wmeadows.com
   b. Approved equal. Substitutions: See Section 01 60 00 - Product Requirements.

2.3 POLISHED CONCRETE SYSTEM

A. Polished Concrete System: Materials, equipment, and procedures designed and furnished by a single manufacturer to produce dense polished concrete of the specified sheen.

1. Acceptable Systems:
   a. Euclid Chemical Company (The); Kurez Dr Vox www.euclidchemical.com. Shall have ISP 9001 Quality Certification. Liquid Floor Treatments - Euco Diamon Hard by The Euclid Chemical Co., "Ultra Guard".
   b. Approved equal. Substitutions:
      a. ARDEX Engineered Cements; ULTRAFLOR Polished Concrete System with ARDEX. PC Finish sealer: HYPERLINK "http://www.ardexamericas.com"www.ardexamericas.com.
      b. Prosoco (prosoco.com)
      c. Sika USA (usa.sika.com)

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that floor surfaces are acceptable to receive the work for this section.
B. Verify that flaws in concrete have been patched and joints filled with methods and materials suitable for further finishes.

3.2 GENERAL

A. Apply materials in accordance with manufacturer's instructions.

3.3 COATING APPLICATION

A. Verify that surface is free of previous coatings, sealers, curing compounds, water repellents, laitance, efflorescence, fats, oils, grease, wax, soluble salts, residues from cleaning agents, and other impediments to adhesion.
B. Verify that water vapor emission from concrete and relative humidity in concrete are within limits established by coating manufacturer.
C. Protect adjacent non-coated areas from drips, overflow, and overspray; immediately remove excess material.
D. Apply coatings in accordance with manufacturer's instructions, matching approved mock-ups for color, special effects, sealing and workmanship.

3.4 CONCRETE POLISHING

A. Execute using materials, equipment, and procedures specified by manufacturer, using manufacturer approved installer.

1. Final Polished Sheen: High-gloss finish; other sheens are included as comparison to illustrate required sheen; final sheen is before addition of any sealer or coating, regardless of whether that is also specified or not.
2. Semi-Gloss Finish: Reflecting overhead and side images from 35 to 45 feet (10 to 14 meters) away.

B. Protect finished surface as required and recommended by manufacturer of polishing system.

END OF SECTION

BOGGS DESIGN PARTNERS
Architecture + Interiors
607 S. ALEXANDER ST.
SUITE 101
PLANT CITY, FL 33563
813 . 946 . 8444

DATE:
ERICA AZORIN CRAIG
FL REG. NO. AR101635

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP/MM
DRAWN BY:	JG/NP/MM
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ARCHITECTURAL SPECIFICATIONS

SHEET NO:
G-013

SECTION 05 51 00
PRE-ENGINEERED METAL PAN STAIRS

PART 1 GENERAL
1.01 SECTION INCLUDES
A. Stairs with concrete threads.
B. Structural steels stair framing and supports.
C. Handrails and guards.
1.02 REFERENCE STANDARDS
A. ADA Standards – Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
B. AISC 201 – AISC Certification Program for Structural Steel Fabricators, Standard for Steel Building Structures; 2006.
C. NAAMM AMP 510 – Metal Stairs Manual; The National Association of Architectural Metal Manufacturers; 1992 Fifth Edition.
1.03 SUBMITTALS
A. See Section 01 3000 – Administrative Requirements, for submittal procedures.
B. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories.
1. Include the design engineer's stamp or seal on each sheet of shop drawings.
C. Delegated Design Data: As required by authorities having jurisdiction.
1.04 QUALITY ASSURANCE
A. Structural Designer Qualifications: Professional Structural Engineer experienced in design of this work and licensed in the State in which the Project is located, or personnel under direct supervision of such an engineer.
B. Welder Qualifications: Show certification of welders employed on the Work, verifying AWS qualification within the previous 12 months.
C. Fabricator Qualifications:
1. A qualified steel fabricator that is certified by the American Institute for Steel Construction (AISC) under AISC 201.
2. A qualified steel fabricator that is accredited by the International Accreditation Service (IAS) Fabricator Inspection Program for Structural Steel (AC172).

PART 2 PRODUCTS
2.01 METAL STAIRS - GENERAL
A. Metal Stairs: Provide stairs of the design specified, complete with landing platforms, vertical and horizontal supports, railings, and guards, fabricated accurately for anchorage to each other and to building structure.
1. Regulatory Requirements: Provide stairs and railings complying with the most stringent requirements of local, state, and federal regulations; where requirements of the contract documents exceed those of regulations, comply with the contract documents.
2. Handrails: Comply with applicable accessibility requirements of ADA Standards.
3. Structural Design: Provide complete stair and railing assemblies complying with the applicable local code.
4. Dimensions: As indicated on drawings.
5. Shop assemble components; disassemble into largest practical sections suitable for transport and access to site.
6. No sharp or rough areas on exposed travel surfaces and surfaces accessible to touch.
7. Separate dissimilar metals using paint or permanent tape.
B. Metal Jointing and Finish Quality Levels:
1. Architectural: All joints as inconspicuous as possible, whether welded or mechanical.
a. Welded Joints: Continuously welded and ground smooth and flush.
b. Mechanical Joints: Butted tight, flush, and hairline, concealed fastenings only.
c. Exposed Edges and Corners: Eased to small uniform radius.
d. Metal Surfaces to be Painted: Sanded or ground smooth, suitable for highest quality gloss finish.
C. Fasteners: Same material or compatible with materials being fastened; type consistent with design and specified quality level.
D. Anchors and Related Components: Same material and finish as item to be anchored, except where specifically indicated otherwise; provide all anchors and fasteners required.
2.02 METAL STAIRS WITH CONCRETE THREADS
A. Risers: Closed.
B. Treads? Metal pan with field-installed concrete fill.
1. Concrete Depth: 1-1/2 inches (38 mm), minimum.
2. Tread Pan Material: Steel sheet.
3. Tread Pan Thickness: As required by design; 14 gage, 0.075 inch (1.9 mm) minimum.
4. Factory Fabricated Tread and Nosing: Manufacturer's standard, field applied aluminum walking surface with integral nosing, abrasive filler and factory applied finishes.
5. Pan Anchorage to Stringers: Welded or bolted to carrier angles welded or bolted to stringers.
6. Concrete Reinforcement: None.
7. Concrete Finish: Non-slip, steel trowel finish.
C. Risers: Same material and thickness as tread pans.
1. Riser/Nosing Profile: Sloped riser with rounded nosing of minimum radius.
2. Nosing Depth: Not more than 1-1/2 inch (38 mm) overhang.
3. Nosing Return: Flush with top of concrete fill, not more than ½ inch (12 mm) wide.
D. Stringers: Rolled steel channels.
E. Landings: Same construction as treads, supported and reinforced as required to achieve design load capacity.
F. Railings: Steel pipe railings.
G. Finish: Shop- or factory-prime painted.
H. Under Site of Stair: Exposed to view, to be finished same as specified for other exposed to view surfaces.
2.03 MATERIALS
A. Steel Sections: ASTM A36/A36M.
B. Steel Tubing: ASTM A500/A500M or ASTM A501/A501M structural tubing, round and shapes as indicated.
C. Steel Plates: ASTM A6/A6M or ASTM A283/A283M.
D. Galvanized Steel Sheet: ASTM A653/A653M, Structural Steel (SS) Grade 33/230 withhG40/Z120 coating.
E. Concrete Fill: Portland cement Type I, 3000 psi (20 MPa) 28-day strength, 2 to 3 inch (50 to 75 mm) slump.
F. Concrete Reinforcement: Mesh type as detailed, galvanized.
2.04 ACCESSORIES:
A. Steel Bolts, Nuts, and Washers: ASTM A325 (ASTM A325M), Type 1, and galvanized to ASTM A153/A153M where connecting galvanized components.
B. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.
C. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.
D. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, Type I – Inorganic, complying with VOC limitations of authorities having jurisdiction.
2.05 SHOP FINISHING:
A. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.
B. Do not prime surfaces in direct contact with concrete or where field welding is required.
C. Prime Painting: Use specified shop-and touch-up primer.
1. Preparation of Steel: In accordance with SSPC-SP 2, Hand Tool Cleaning.
2. Number of Coasts: One.
D. Galvanizing: Hot-dip galvanize to minimum requirements of ASTM A123/A123M.
1. Touch up abraded areas after fabrication using specified touch-up primer for galvanized surfaces.

PART 3 EXECUTION
3.01 EXAMINATION
A. Verify that field conditions are acceptable and are ready to receive work.
3.02 PREPARATION
A. When field welding is required, clean and strip primed steel items to bare metal.
B. Supply items required to be cast into concrete and embedded in masonry with setting templates.
3.03 INSTALLATION
A. Install components plumb and level, accurately fitted, free from distortion or defects.
B. Provide anchors, plates, angles, hangers, and struts required for connecting stairs to structure.
C. Allow for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
D. Provide welded field joints where specifically indicated on drawings. Perform field welding in accordance with AWS d1.1/D1.1M.
E. Other field joints may be either welded or bolted provided the result complies with the limitations specified jointing quality levels.
F. Obtain approval prior to site cutting or creating adjustments not scheduled.
G. After erection, prime welds, abrasions, and surfaces not shop primed or galvanized, except surfaced to be in contact with concrete.
3.04 TOLERANCES
A. Maximum Variation From Plumb: ¼ inch (6 mm) per story, non-cumulative.
B. Maximum Offset From True Alignment: ¼ inch (6 mm)

END OF SECTION

SECTION 06 10 00
ROUGH CARPENTRY

PART 1 GENERAL
1.1 SECTION INCLUDES
A. Rough opening framing for doors, windows, and roof openings.
B. Sheathing.
C. Concealed wood blocking, nailers, and supports.
1.2 REFERENCE STANDARDS
A. ASTM A153/A153M – Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
B. PS1-Structural Plywood; 2007.
C. PS2 -Performance Standard for Wood-Based Structural-Use Panels; National Institute of Standards and Technology, U.S. Department of Commerce; 2010.
D. PS 20 – American Softwood Lumber Standard; National Institute of Standards and Technology (Department of Commerce); 2005.
1.3 SUBMITTALS
A. See Section 01 30 00 – Administrative Requirements, for submittal procedures.
1.4 DELIVERY, STORAGE, AND HANDLING
A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

PART 2 PRODUCTS
2.1 GENERAL REQUIREMENTS
A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
1. If no species is specified, provide any species graded by the agency specified; if no grading agency is specified, provide lumber graded by any grading agency meeting the specified requirements.
2. Grading Agency: Any grading whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
B. Lumber fabricated from old growth timber is not permitted
2.2 DIMENSION LUMBER CONCEALED APPLICATIONS
A. Sizes: Nominal sizes as indicated on drawings, SFS.
B. Moister Content: S-dry or Mc19.
C. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
1. Lumber: SAS, No 2 or Standard Grade.
2. Boards: Standard or No 3.
2.3 ACCESSORIES
A. Fasteners and Anchors:
1. Metal and Finish: Hot-dipped galvanized steel per ASTM A 153/A 153M for high humidity and preservative-treated wood locations, unfinished elsewhere.
2. Drywall Screws: Bugle head, hardened steel, power drive type, length three times thickness and sheathing.
3. Anchors: Toggle bolt type for anchorage to hollow masonry.

PART 3 EXECUTION
3.1 INSTALLATION GENERAL
A. Select material sizes to minimize waste.
B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including shims, bracing, and blocking.
C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air containments.
3.2 LOCKING, NAILERS AND SUPPORTS
A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.
B. In metal stud walls, provide continuous blocking around door and window openings for anchorage of frames, securely attached to stud framing.
C. In walls, provide blocking attached to studs as backing and support for wall mounted items, unless item can be securely fastened to two or more studs or other method of support explicitly indicated.

END OF SECTION

SECTION 06 20 00
FINISH CARPENTRY

PART 1 GENERAL
1.1 SECTION INCLUDES
A. Finish carpentry items.
B. Wood casings and moldings.

1.2 REFERENCE STANDARDS
A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2009.

1.3 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

1.4 QUALITY ASSURANCE
A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Protect work from moisture damage.

PART 2 PRODUCTS

2.1 FINISH CARPENTRY ITEMS
A. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI/AWMAC/WI Architectural Woodwork Standards for Custom Grade.
B. Surface Burning Characteristics: Provide materials having fire and smoke properties as required by applicable code.
C. Interior Woodwork Items:
1. Moldings, Bases, Casings, and Miscellaneous Trim: Clear white pine; prepare for paint finish.
2. Door, Glazed Light, and Pocket Door Frames: White birch; prepare for paint finish.
3. Windowsills: Clear fir; prepare for transparent finish.

2.2 WOOD-BASED COMPONENTS
A. Wood fabricated from old growth timber is not permitted.

2.3 FASTENINGS
A. Adhesive for Purposes Other Than Laminate Installation: Suitable for the purpose; not containing formaldehyde or other volatile organic compounds.
B. Fasteners: Of size and type to suit application.

2.4 FABRICATION
A. Shop assemble work for delivery to site, permitting passage through building openings.
B. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

2.5 SHOP FINISHING
A. Sand work smooth and set exposed nails and screws.
B. Apply wood filler in exposed nail and screw indentations.
C. On items to receive transparent finishes, use wood filler that matches surrounding surfaces and is of type recommended for the applicable finish.
D. Finish work in accordance with AWI/AWMAC/WI Architectural Woodwork Standards, Section 5 - Finishing for Grade specified and as follows:
1. Transparent:
a. System - 1, Lacquer, Nitrocellulose.
b. Stain: As selected by Architect.
c. Sheen: Flat.
2. Opaque:
a. System - 1, Lacquer, Nitrocellulose.
b. Color: As selected by Architect.
c. Sheen: Flat.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify adequacy of backing and support framing.
B. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

3.2 INSTALLATION
A. Install work in accordance with AWI/AWMAC/WI Architectural Woodwork Standards requirements for grade indicated.
B. Set and secure materials and components in place, plumb and level.
C. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch (1 mm). Do not use additional overlay trim to conceal larger gaps.

3.3 PREPARATION FOR SITE FINISHING
A. Set exposed fasteners. Apply wood filler in exposed fastener indentations. Sand work smooth.
B. Site Finishing: See Section 09 90 00.

3.4 TOLERANCES
A. Maximum Variation from True Position: 1/16 inch (1.5 mm).
B. Maximum Offset from True Alignment with Abutting Materials: 1/32 inch (0.7mm).

END OF SECTION

SECTION 06 41 00
CABINETS & COUNTERTOPS

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Custom plastic laminate cabinet units.
B. Quartz countertops.
C. Cabinet hardware.
D. Factory finishing.
E. Preparation for installing utilities.

1.2 RELATED REQUIREMENTS
A. Section 06 10 00 – Rough Carpentry: Support framing, grounds, and concealed blocking.

1.3 REFERENCE STANDARDS
A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2009.
B. BHMA A156.9 - American National Standard for Cabinet Hardware; Builders Hardware Manufacturers Association; 2010 (ANSI/BHMA A156.9).
C. NEMA LD 3 - High-Pressure Decorative Laminates; National Electrical Manufacturers Association; 2005.

1.4 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
1. Provide the information required by AWI/AWMAC/WI Architectural Woodwork Standards.
2. Include certification program label.
C. Product Data: Provide data for hardware accessories.
D. Samples: Submit actual sample items of proposed cabinet/countertop finishes and pulls, demonstrating hardware design, quality, and finish.

1.5 MOCK-UP
A. Provide mock-up of typical base cabinet, wall cabinet, and countertop, including hardware, finishes, and plumbing accessories.
B. Mock-up may remain as part of the Work.

1.6 DELIVERY, STORAGE, AND HANDLING
A. Protect units from moisture damage.

1.7 FIELD CONDITIONS
A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.1 CABINETS
A. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI//AWMAC/WI Architectural Woodwork Standards for Custom Grade.
B. Plastic Laminate Faced Cabinets: Custom grade.
C. Cabinets:
1. Finish - Exposed Exterior Surfaces: Decorative plastic laminate.
2. Finish - Exposed and Semi-Exposed Interior Surface: Decorative Plastic Laminate matching exposed surfaces r
3. Finish - Concealed Surfaces: Manufacturer's option.
4. Door and Drawer Front Edge Profiles: Square edge with thin applied band.
5. Casework Construction Type: Face frame.
6. Interface style for Cabinet and Door Fronts: Frameless, Full Overlay
7. Adjustable Shelf Loading: 50 lbs. per sq. ft.
8. Cabinet Style: Flush overlay.
9. Cabinet Doors and Drawer Fronts: Flush / Slab style.
10. Drawer Construction Technique : Dovetail joints.
11. Drawer Side Construction: Multiple-dovetailed.

2.2 COUNTERTOPS
A. Quartz Countertops with Eased Edge and Radius corners.
1. Manufacturers:
a. Wilsonart International, Inc.: www.wilsonart.com
b. MSI Surfaces: www.msisurfaces.com
c. HanStone Quartz: www.hanstonequartz.com
d. Substitutions: See Section 01 60 00 - Product Requirements.
2. Surface color and Pattern (unless otherwise indicated): To be selected by Architect from manufacturer's standard selection.
3. Shop drawings to show the following:
a. Full-size details, edge details, attachments, etc.
b. Locations and sizes of furring, blocking, including concealed blocking and reinforcement specified in other Sections.
c. Fabrication details for brackets.
d. Locations and sizes of cutouts and holes for plumbing fixtures, faucets, and other items installed in quartz surfaces.
e. Locations and sizes of cutouts for sink installation and lavatory installation.
f. Seam locations.
4. Fabricate components to greatest extent practical to sizes, shapes, and profiles in accordance with approved shop drawings and manufacturer's printed instructions and technical bulletins approved shop drawings and manufacturer's instructions.
5. Form inconspicuous joints between components and reinforce as required.
6. Where necessary for fitting in Project, provide ample allowance for scribing, trimming, and fitting _____
7. Rout and finish component edges with clean, sharp returns, and rout cutouts, radii, and contours to template
8. Smooth edges
2.3 WOOD SHEET MATERIALS
A. Plywood: PS 1 Exterior Grade, A-C veneer grade; graded in accordance with AWI, veneer core. Minimum ½" thickness with ½" hardwood at cabinetry face.
B. All Millwork must meet AWI Standards.
C. Wood fabricated from old growth timber is not permitted.

2.4 LAMINATE MATERIALS
A. Plastic Laminate: High Pressure Decorative Laminate (HDPL): NEMA LD 3, types as recommended for specific applications.
1. Manufacturers:
A. Pionite: https://panolam.com/pionite/
B. Wilsonart International, Inc: http://www.wilsonart.com
C. Formica Corporation: http://www.formica.com
D. Substitutions: See Section 01 60 00 - Product Requirements.
1. Surface color and Pattern (unless otherwise indicated): To be selected by Architect from manufacturer's standard selection.

2.5 ACCESSORIES
A. Adhesive: Type recommended by fabricator to suit application.
B. Fasteners: Size and type to suit application.
C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
D. Concealed Joint Fasteners: Threaded steel.
E. Joint Sealant: Mildew-resistant silicone sealant, white.
F. Grommets: Three (3) inch diameter standard painted metal in satin/dull chrome for cut-outs.

2.6 HARDWARE
A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
B. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self-rests, polished chrome finish, for nominal 1 inch (25 mm) spacing adjustments.
C. Drawer and Door Pulls: Basis of design: Amerock Augment 5-1/16" (128mm) center-to-center pull, Matte Black finish, ADA compliant.
D. Drawer Slides:
1. Type: Full extension ball bearing.
2. Static Load Capacity: Commercial grade.
3. Mounting: Side mounted.
4. Stops: Integral type.
E. Hinges: European style concealed self-closing type, steel with polished finish.
F. Hidden Countertop Support Brackets:
1. Type: Support brackets fabricated by welding miter cut extruded aluminum or steel sections, grinding and deburring sharp edges and welds, drilling holes for field attachment, and factory finishing.
2. Flush mounted, concealed counter brackets:
a. Bracket for Break Room Island; Model No KW-18 as manufactured by The Original Granite Bracket
b. Construction: Fabricated from horizontal solid American steel designed to attach flush with top of knee wall prior to installation of quartz countertop and be concealed by countertop overhang
3. Size: (length by width by thickness): 18 x 2.5 x 1/2 inches
4. Load capacity per bracket: 250 pounds
5. Finish: Black
6. Substitutions: No substitutions.
G. Grommets: painted metal in satin/dull chrome

2.7 FABRICATION
A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
B. Provide back splash wherever counter edge abuts vertical surface unless otherwise indicated.
C. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2' from sink cut-outs.
D. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
E. Provide cutouts for plumbing fixtures and appliances. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify adequacy of backing and support framing.
B. Verify location and sizes of utility rough-in associated with work of this section.

3.2 INSTALLATION
A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
B. Use fixture attachments in concealed locations for wall mounted components.
C. Use concealed joint fasteners to align and secure adjoining cabinet units.
D. Carefully scribe casework abutting other components, with maximum gaps of 1/32". Do not use additional overlay trim for this purpose.
E. Secure cabinets to floor using appropriate angles and anchorages.
F. Countersink anchorage devices at exposed locations. Finish flush with surrounding surfaces.
G. For quartz countertops:
1. General:
a. Install components plumb, level, and scribed adjacent substrates in accordance with manufacturer's instructions.
b. Leave space, not less than 1/8 inch every 10 foot of length, between components and adjacent substrates.
2. Tops:
a. To be flat and true to within 1/8" (3mm) of a flat surface over a 10 foot length. Allow a minimum of 1/16 inch to a maximum of 1/8 inch (3mm) clearance between surface and each wall.
b. Carefully plan work to avoid damaging finished tops during transportation and installation.
3. Anchorage:
a. Fasten countertops by screwing through corner blocks of base units into underside of countertop. Pre-drill holes for screws as recommended by manufacturer.
b. Secure backsplashes to tops and walls with adhesive.
4. Seams:
a. Clean surfaces to be seamed to remove oil, dirt and dust.
b. Align adjacent surfaces and, using adhesive in color to match countertops, form seams to comply with manufacturer's instructions.
c. Form Field joints using manufactureres recommended adhesive with joint widths no greater than 1/8 inch (3mm) in finished work.
d. Keep components and hands clean when making joints
5. Tolerance: Install countertops level, accurately aligned, without sag, bow or variation from a straight line to tolerance of 1/8 inches in 8 feet.
6. Sinks/Lavatory Bowls:
a. Adhere undermount sinks/lavatory bowls to countertops using manufacturer's recommended adhesive and mounting hardware
b. Adhere drop-in sinks/bowls to countertops using silicone sealant and manufacture recommended adhesives.

3.3 ADJUSTING
A. Adjust installed work.
B. Adjust moving or operating parts to function smoothly and correctly.

3.4 CLEANING AND PROTECTION
A. Keep components and hands clean during installation.
B. Remove adhesives, sealants, and other stains in accordance with manufacturer's instructions.
1. Clean exposed surfaces in accordance with manufacturer's instructions.
2. Components shall be clean on date of substantial completion.
C. Protect installed surfaces and products until completion of project.
D. Touch-up, repair, or replace damaged work in satisfactory manner before Substantial Completion.

END OF SECTION

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP/MM
DRAWN BY:	JG/NP/MM
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
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SHEET NO:
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SECTION 06 82 00
FIBERGLASS REINFORCED PLASTIC (FRP)

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Fiberglass reinforced Plastic Sheet pile, resin fabrications.

1.2 TERMINOLOGY
A. Fiber Reinforced Polymer (FRP) – A thermoset polymer matrix reinforced with a fiber or other material with a sufficient aspect ratio (length to thickness) to provide a discernable reinforcing function in one or more directions.

1.3 DESCRIPTION OF WORK
A. Performance Requirements: Provide fiberglass reinforced plastic (FRP) panels which have been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.
B. The installing contractor shall perform all work in this selection, including installation, caulking (filing) and patching and will assume responsibility for coordinating installation with the work and associated trades.

1.4 REFERENCE STANDARDS
A. Composites Fabricators Associations (CFA) Guidelines and Recommended Practices for Fiberglass Reinforced Plastic Architectural Products.

1.5 SUBMITTALS
A. See Section 01 30 00 – Administrative Requirements, for submittal procedures.
B. Product Data: Provide data on specified component products.
C. Show Drawings: Indicate dimensions, adjacent construction, materials, thicknesses, fabrication details, required clearances, field joining, tolerances, colors, finishes, methods of support, integration of plumbing components, and anchorages.

1.6 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in architectural glass fiber and resin components with ten years documented experience.
B. Installer Qualifications: The install of the work, with more than five years' experience in the installation of FRP panels, shall carry out installation efficiently and co-operate fully with other trades.

1.7 DELIVERY, STORAGE AND HANDLING
A. Protect components from damage by retaining shipping protection in place until installation.
B. FRP units shall be stored level on a clean dry surface in an area protected from weather, moisture and damage. The units shall not be stacked or leaned unless instructed otherwise by the manufacturer.
C. The installer is responsible for chipping, cracking, or other damage to fiberglass components, after delivery to the job-site and unit installation is completed and inspected, approved by the Owner's representative.

1.8 FIELD CONDITIONS
A. Do not install site fabricated components when site conditions may be detrimental to successful installation.
B. Maintain temperature and humidity conditions favorable to proper curing of resin during and after installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Fiberglass Reinforced Plastic (FRP) Panel Manufacturers:
1. Panolam : https://panolam.com/frp-fiber-reinforced-plastic/
2. Marlite: www.marlite.com
3. Crane Composites: www.cranecomposites.com
4. Substitutions: See Section 01 60 00 – Product Requirements

2.2 SOURCE QUALITY
A. Obtain FRP Panels, moldings, and other accessories from a single manufacturer.

2.3 MATERIALS
A. Fiberglass Reinforce Plastic (FRP) Panels.
1. Wall Panel: Manufacturer's standard factory laminated panel with specified substrate and specified skin (single or double sided as indicated); size shall be 4 feet x 8 feet (1.2 x 2.4 m).
2. General: Each panel shall be manufactured by the pultrusion process utilizing isophthalic polyester resin with flame retardant and UV inhibitor additives. A synthetic surface veil shall be the outermost layer covering the exterior surface.
B. Molding: The 3way connector, hander, 45 deg. Connector, toggle connector and end cap required to install the panel system shall be manufactured by the pultrusion process, and achieve a flame spread rating of 25 or less in accordance with ASTM test method E-84.
C. Adhesive: As recommended by manufacturer for the required substrate.

2.4 SHOP FABRICATION
A. Mold Surface: Textured to achieve pebble finish.

2.5 FINISH
A. Color: as selected by Architect from Manufacture's standard colors
B. Exposed to view Surface Texture: Embossed.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify that surfaces are ready to receive work and dimensions are as indicated on show drawings.
B. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

3.2 INSTALLATION
A. Install fabrications in accordance with shop drawings and fabricator's instructions.
B. Installation shall not be in until building is enclosed, permanent heating and cooling equipment is in operation, and residual moisture from plaster, concrete or terrazzo work has dissipated.
C. During installation, and for not less than 48 hours before, maintain an ambient temperature and relative humidity within limits required by type of adhesive used and recommendation of adhesive manufacturer.
D. Provide ventilation to disperse fumes during application of adhesive as recommended by adhesive manufacturer.

3.3 CLEANING
A. Clean components of foreign material without damaging finished surface.
B. Clean fabrications in accordance with fabricator's instructions.

3.4 PROTECTION
A. Protect installed product and finish surfaces from damage during construction.

END OF SECTION

SECTION 07 21 00
THERMAL INSULATION

PART 1 GENERAL
1.1 SECTION INCLUDES
A. Thermal/acoustic insulation.
1.2 REFERENCE STANDARDS
A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation ; 2011be1.
B. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing ; 2012.
C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials ; 2012.
1.3 SUBMITTALS
A. Product Data: Provide data on product characteristics, performance criteria, and product limitations.
1.4 FIELD CONDITIONS
A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

PART 2 PRODUCTS
2.1 MANUFACTURERS
A. Insulation:
1. Owens-Corning Corp. ; www.owenscorning.com
2. Johns Manville Corp ; www.jm.com
3. Certainteed Corp ; www.certainteed.com
4. Substitutions: See Section 01 60 00 - Product Requirements.
2.2 ACOUSTIC BATT INSULATION MATERIALS
A. Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.
1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
3. Combustibility: Non-combustible, when tested in accordance with ASTM E136 , except for facing, if any.
4. Thermal Resistance: Varies per thickness, refer to drawings.
5. Thickness: Varies, refer to drawings.
6. Facing: Unfaced.
7. Basis of Design: Owens Corning EcoTouch PINK FIBERGLAS
B. Acoustic Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.
1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
3. Thickness: 3-1/2"
4. Noise Reduction Coefficient (NRC): 1.00 minimum.
5. Sound Transmission Class (STC): 4 - 10 dBs, when tested in accordance with ASTM E90.
6. Basis of Design: Owens Corning Sound Attenuation Batts, Fiberglass
2.3 POLYURETHANE SPRAY FOAM INSULATION
A. General: Provide insulating materials that comply with requirements and with referenced standards.
B. Basis of Design: Icynene ProSeal™ Closed Cell Spray Foam Insulation: High density, waterblown, con- forming to the following:
a. Thermal Resistance (R-Value/inch @75 deg F): ASTM C 518; 7.1 hr/sq ft/degree F/BTU
1. Air Permeance (for 2 inches of material): ASTM E 2178; < 0.019 L/s.m2 75 Pa
2. Water Vapor Transmission (for 2 inches of material): ASTM E 96; 20.7 perms [1180 ng /(Pa.s.m2)]
3. Flame Spread and Smoke Developed Rating: ASTM E 84
a. Flame Spread: 20
b. Smoke Development: 450
4. Fungal Growth: ASTM C1338; no growth.
A. Product Description:
5. ICC Evaluation Service (ICC/ES) Report No. ESR-1826
6. High density, closed celled, 100% water-blown polyurethane foam.
7. Vapor permeable, insulation and air barrier material.
2.4 ACCESSORIES
A. Tape: Bright aluminum self-adhering type, mesh reinforced, 2 inch (50 mm) wide.
B. Insulation Fasteners: As required to suit application, capable of securely fastening insulation in place.
C. Adhesive: Type recommended by insulation manufacturer for application.

PART 3 EXECUTION
3.1 EXAMINATION
A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation and adhesive.
B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.
3.2 INSTALLATION
A. Install insulation in accordance with manufacturer's instructions.
B. Install in wall spaces without gaps or voids. Do not compress insulation.
C. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.
D. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation.
3.3 PROTECTION
A. Do not permit installed insulation to be damaged prior to its concealment.

END OF SECTION

SECTION 07 26 00
BELOW-GRADE VAPOR RETARDER

PART 1 GENERAL
1.1 SECTION INCLUDES
A. Vapor barrier and installation accessories for installation under concrete slabs.
1.2 REFERENCES
A. American Society for Testing and Materials (ASTM):
1. ASTM E1745- 11Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs.
2. ASTM E1643- 11Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs.
B. Technical Reference - American Concrete Institute (ACI):
1. ACI 302.2R-06 Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials.
1.3 SUBMITTALS
A. Quality control/assurance:
1. Summary of test results per paragraph 9.3 of ASTM E 1745.
2. Manufacturer's samples and literature.
3. Manufacturer's installation instructions for placement, seaming and penetration repair instructions.
4. All mandatory ASTM E1745 testing must be performed on a single production roll per ASTM E1745 Section 8.1

PART 2 PRODUCTS
2.1 MATERIALS
A. Vapor Retarder must have all of the following qualities:
1. Permeance: 0.03 Perms [grains/(ft2 *hr * in.Hg)] or less per ASTM F1249 or ASTM E 96
2. ASTM E 1745 Class A.
3. Minimum of 10 mils thickness.
B. Vapor Retarder Products:
1. Stego Wrap Class A Vapor Retarder (10-mil), Stego Industries, LLC; www.stegoindustries.com.
2. Substitutions: See Section 01 60 00 - Product Requirements.

2.2 ACCESSORIES
A. Seams :
1. Stego Tape by Stego Industries LLC ; HYPERLINK "http://www.stegoindustries.com/"www.stegoindustries.com.
B. Penetrations of Vapor barrier:
1. Stego Mastic by Stego Industries LLC ; HYPERLINK "http://www.stegoindustries.com/"www.stegoindustries.com.
2. Stego Tape by Stego Industries LLC ; HYPERLINK "http://www.stegoindustries.com/"www.stegoindustries.com.
C. Perimeter/edge seal:
1. Stego Crete Claw by Stego Industries LLC ; HYPERLINK "http://www.stegoindustries.com/"www.stegoindustries.com.
2. StegoTack Tape (double sided) by Stego Industries LLC ; HYPERLINK "http://www.stegoindustries.com/"www.stegoindustries.com.
3. Stego Term Bar by Stego Industries LLC ; HYPERLINK "http://www.stegoindustries.com/"www.stegoindustries.com.

PART 3 EXECUTION
3.1 PREPARATION
A. Ensure that subsoil is approved by Structural or Geotechnical Engineer.
1. Level and compact base material.

3.2 INSTALLATION
A. Install vapor barrier in accordance ASTM E1643.
1. Unroll vapor barrier with the longest dimension parallel with the direction of the concrete placement and face laps away from the expected direction of the placement whenever possible.
2. Extend vapor barrier over footings and grade beams to a distance acceptable to the structural engineer or stop at impediments such as dowels and water stops.
3a. Seal vapor barrier to slab perimeter/edge using Stego Crete Claw and remove dirt, debris, and mud from Crete Claw prior to concrete placement.
OR
3b. Seal vapor barrier to footing/grade beam with StegoTack Tape, Stego Term Bar, or both.
a. Overlap joints 6 inches and seal with manufacturer's tape.
b. Apply tape/Crete Claw to a clean and dry vapor barrier.
c. Seal all penetrations (including pipes) per manufacturer's instructions.
d. No penetration of the vapor barrier is allowed except for reinforcing steel and permanent utilities.
e. Repair damaged areas by cutting patches of vapor barrier, overlapping
B. damaged area **6** inches and taping all sides with tape.

END OF SECTION

SECTION 07 31 13
ASPHALT SHINGLE ROOFING

PART I GENERAL
1.01 SECTION INCLUDES
A. Asphalt roofing shingles.
B. Leak barrier and roof deck protection.
C. Metal flashing associated with shingle roofing.
D. Attic ventilation.

1.02 RELATED SECTIONS
A. Section 06100 - Rough Carpentry: Framing, wood decking, and roof sheathing.
B. Section 07620 - Flashing and Sheet Metal: Sheet metal flashing not associated with shingle roofing; gutters and downspouts.
C. Section 08630 - Unit Skylights: Skylights

1.03 REFERENCES
A. American Society for Testing and Materials (ASTM) - Annual Book of ASTM Standards
1. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
2. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
3. ASTM B 370 - Standard Specification for Copper Sheet and Strip for Building Construction.
4. ASTM D 3018 - Standard Specification for Class A Asphalt Shingles Surfaced with Mineral Granules.
5. ASTM D 3161 - Standard Test Method for Wind-Resistance of Asphalt Shingles (Fan-Induced Method).
6. ASTM D 3462 – Standard Specification for Asphalt Shingles Made From Glass Felt and Surfaced with Mineral Granules.
7. ASTM D 4586 - Standard Specification for Asphalt Roof Cement, Asbestos-Free.
8. ASTM D 7158 - Standard Test Method for Wind-Resistance of Sealed Asphalt Shingles (Uplift Force/Uplift Resistance Method).
B. Underwriters Laboratories (UL) - Roofing Systems and Materials Guide (TFWZ.R21)
1. UL 790 - Tests for Fire Resistance of Roof Covering Materials.
2. UL 997 - Wind Resistance of Prepared Roof Covering Materials.
C. Asphalt Roofing Manufacturers Association (ARMA)
D. Sheet Metal and Air Conditioning Contractors National Association, 1nc. (SMACNA) - Architectural Sheet Metal Manual.
E. National Roofing Contractors Association (NRCA)

1.04 DEFINITIONS
A. Roofing Terminology: Refer to ASTM D1079 and the glossary of the National Roofing Contractors Association (NRCA) Roofing and Waterproofing Manual for definitions of roofing terms related to this section.

1.05 SUBMITTALS
A. Submit copies of GAF product data sheets, detail drawings and samples for each type of roofing product.

1.06 QUALITY ASSURANCE
A. Manufacturer Qualifications: Provide all primary roofing products, including shingles, underlayment, leak barrier, and ventilation, by a single manufacturer.
B. Installer Qualifications: Installer must be approved for installation of all roofing products to be installed under this section.

1.07 REGULATORY REQUIREMENTS
A. Provide a roofing system achieving an Underwriters Laboratories (UL) Class A fire classification.
B. Install all roofing products in accordance with all federal, state and local building codes.
C. All work shall be performed in a manner consistent with current OSHA guidelines.

1.08 PREINSTALLATION MEETING
A. General: For all projects in excess of 250 squares of roofing, a pre-installation meeting is strongly recommended.
B. Timing: The meeting shall take place at the start of the roofing installation, no more than 2 weeks into the roofing project.
C. Attendees: Meeting to be called for by manufacturer's certified contractor. Meeting's mandatory attendees shall include the certified contractor and the manufacturer's representative. Non-mandatory attendees shall include the owner's representative, architect or engineer's representative, and the general contractor's representative.
D. Topics: Certified contractor and manufacturer's representative shall review all pertinent requirements for the project, including but not limited to, scheduling, weather considerations, project duration, and requirements for the specified warranty.

1.09 DELIVERY, STORAGE, AND HANDLING
A. Store all products in manufacturer's unopened, labeled packaging until they are ready for installation.
B. Store products in a covered, ventilated area, at temperature not more than 110 degrees F (43 degrees C); do not store near steam pipes, radiators, or in direct sunlight.
C. Store bundles on a flat surface. Maximum stacking height shall not exceed GAF's recommendations. Store all rolls on end.
D. Store and dispose of solvent-based materials in accordance with all federal, state and local regulations.

1.10 WEATHER CONDITIONS
A. Proceed with work only when existing and forecasted weather conditions will permit work to be performed in accordance with GAF's recommendations

1.11 WARRANTY
A. Provide to the owner a **GAF Silver Pledge™ Ltd Warranty**:
1. Eligibility requirements: Roofs installed by a GAF Certified GAF Master Elite™ Roofing Contractor only. Requires at least 4 qualifying accessory products in addition to GAF shingles.
2. Manufacturing defects:
a Commercial or Multi-Residential Building:
1. GAF Designer, LayerLock-labeled, and Timberline® Roofing Shingles: 40 years with a 20-year Smart Choice® Protection Period (non-prorated). *GAF Accessories installed with lifetime shingles are also covered with a 40-year limited warranty with a 20-year Smart Choice® Protection Period (non-prorated).*
3. Workmanship:
a Ten (10) years
4. Wind Warranty Coverage:
a LayerLock-labeled Shingles:
1. WindProven™ Limited Wind Warranty – 15-year limited warranty with no maximum wind speed. Requires installation of **4** nails per shingle.
5. Algae Warranty Coverage:
a StainGuard Plus™ labeled Shingles:
1. 25 year limited warranty with 15-year Smart Choice® Protection Period (non-prorated) *when used with StainGuard Plus™ labeled ridge cap shingles*.
2. 25 year limited warranty with 10-year Smart Choice® Protection Period (non-prorated) for all other installations.
b StainGuard® labeled Shingles:
1. 10 year limited warranty with 1-year Smart Choice® Protection Period (non-prorated).
B. Provide to the owner a **GAF System Plus Ltd Warranty**:
1. Eligibility requirements: Roofs installed by a GAF Certified Contractor or Certified GAF Master Elite™ Roofing Contractor only. Requires at least 3 qualifying accessory products in addition to GAF shingles (4 accessories required for WindProven™ Limited Wind Warranty). Visit **www.gaf.com** for a complete list of qualifying GAF Shingles and Accessory Products.
2. Manufacturing defects:
a Commercial or Multi-Residential Building:
1. GAF Designer, LayerLock-labeled, and Timberline® Roofing Shingles: 40 years with a 20-year Smart Choice® Protection Period (non-prorated). *GAF Accessories installed with lifetime shingles are also covered with a 40-year limited warranty with a 20-year Smart Choice® Protection Period (non-prorated).*
3. Wind Warranty Coverage:
a LayerLock-labeled Shingles:
1. WindProven™ Limited Wind Warranty – 15-year limited warranty with no maximum wind speed. Requires installation of **4** nails per shingle and at least four (4) qualifying accessories. Qualifying accessories include GAF Ridge Cap Shingles, GAF Starter Strip Shingles, GAF Roof Deck Protection, plus your choice of either a GAF Leak Barrier Product or GAF Attic Ventilation Product.
4. Algae Warranty Coverage:
a StainGuard Plus™ labeled Shingles:
1. 25 year limited warranty with 15-year Smart Choice® Protection Period (non-prorated) *when used with StainGuard Plus™ labeled ridge cap shingles*.
2. 25 year limited warranty with 10-year Smart Choice® Protection Period (non- prorated) for all other installations.
b StainGuard® labeled Shingles:
1. 10 year limited warranty with 1-year Smart Choice® Protection Period (non-prorated).
C. Provide to the owner a **GAF Roofing System Limited Warranty**. Requires the installation of GAF Shingles which carry a Lifetime limited warranty and at least three (3) qualifying GAF Accessory Products. Four (4) accessories are required for the WindProven™ Limited Warranty coverage with LayerLock-lableled shingles. Visit **www.gaf.com** for a complete list of qualifying GAF Shingles and Accessory Products.
1. Manufacturing defects:
a Commercial or Multi-Residential Building:
1. 40 years with a 10-year Smart Choice® Protection Period (non-prorated)
2. Wind Warranty Coverage:
a LayerLock-labeled Shingles:
1. WindProven™ Limited Wind Warranty – 15-year limited warranty with no maximum wind speed. Requires installation of **4** nails per shingle and at least four (4) qualifying accessories. Qualifying accessories include GAF Ridge Cap Shingles, GAF Starter Strip Shingles, GAF Roof Deck Protection, plus your choice of either a GAF Leak Barrier Product or GAF Attic Ventilation Product.
3. Algae Warranty Coverage:
a StainGuard Plus™ labeled Shingles:
1. 25 year limited warranty with 10-year Smart Choice® Protection Period (non-prorated).
b StainGuard® labeled Shingles:
1. 10 year limited warranty with 1-year Smart Choice® Protection Period (non-prorated).
D. Provide to the owner a **GAF Shingle and Accessory Limited Warranty**.
1. Manufacturing defects:
a Commercial or Multi-Residential Building:
1. GAF Designer and Timberline® Roofing Shingles: 40 years with a 10-year Smart Choice® Protection Period (non-prorated). GAF Accessories: If you install 3 or more GAF Accessories, these accessories carry a 40-year limited warranty with a 10-year Smart Choice® Protection Period. If you install less than 3 accessories, these accessories are covered for 40 years with a 5-year Smart Choice® Protection Period (non-prorated).
2. Wind Warranty Coverage:
a GAF Designer and Timberline® Roofing Shingles:
1. 15-year limited warranty for 130 mph with the special installation of **6** nails per shingle and GAF Starter Strip Products installed at the eaves AND rakes. Otherwise, wind warranty is 110 mph without special installation described above.
3. Algae Warranty Coverage:
a StainGuard Plus™ labeled Shingles:
1. 25 year limited warranty with 10-year Smart Choice® Protection Period (non-prorated).
b StainGuard® labeled Shingles:
1. 10 year limited warranty with 1-year Smart Choice® Protection Period (non-prorated).

PART II PRODUCTS
2.01 MANUFACTURERS
A. Acceptable Manufacturer: GAF, 1 Campus Drive, Parsippany NJ 07054. Tel: 877-423-7663.
B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.02 SHINGLES
A. Self sealing, granule surfaced, asphalt shingle with a strong fiberglass reinforced Micro Weave® core and StainGuard® protection, which prevents pronounced discoloration from blue-green algae through formulation/unique blends of granules. Architectural laminate styling provides a wood shake appearance with a 5 5/8 inch exposure. New StrikeZone™ Nailing Area with proprietary LayerLock™ Technology provides up to 30% faster nailing and up to 600% larger nailing target. Features GAF's patented High Definition® color blends and enhanced shadow effect. UL 790 Class A rated with UL 997 Wind Resistance Label; ASTM D 7158; ASTM D 3161, Class F; ASTM D 3018, Type 1; ASTM D 3462; AC438; CSA A123.5; Dade County Approved, Florida Building Code Approved, Texas Dept of Insurance Approved, ICC Report Approval ESR-1475 and ESR-3267. **Timberline® HDZ™** Lifetime High Definition Shingles, by GAF.

2.03 HIP AND RIDGE SHINGLES
A. Distinctive self sealing hip and ridge cap shingle complementing the color of selected roof shingle. Each bundle covers approx. 25 lineal feet (7.62mm) with a 6 2/3 inch (169mm) exposure. **Seal-A-Ridge®** Ridge Cap Shingles by GAF.

2.04 STARTER STRIP
A. Self sealing starter shingle designed for all roof shingles. Each bundle covers approx. 120 lineal feet (36.58m). **ProStart™ Starter Strip** by GAF.

2.05 LEAK BARRIER
A. Self-adhering, self sealing, bituminous leak barrier surfaced with a smooth polyethylene film. Approved by UL, Dade County, ICC, State of Florida and Texas Department of Insurance. Each Roll contains approx. 200 sq ft. (18.6 sq.m.), 36" X 66.7' (0.9m x 20.3m), and 60 mils thick. **StormGuard® Leak Barrier,** by GAF.

2.06 SHINGLE UNDERLAYMENT
A. High-traction, moisture resistant synthetic underlayment. UV stabilized polypropylene construction. Meets or exceeds ASTM D226 and D4869. Each roll contains approximately 10 squares (1000 sq. ft.) of material and is 48" x 250'. **FeltBuster®** High-Traction Synthetic Roofing Felt, by GAF.
1. *Use of FeltBuster™ underlayment will require a layer of VersaShield underlayment installed over the deck to achieve a Class A Fire Rating for the shingles.

2.07 ROOFING CEMENT
A. Asphalt Plastic Roofing Cement meeting the requirements of ASTM D 4586, Type I or II.
B. Roof Cement: ASTM D 4586. **MatrixÔ 203 Plastic Roof Cement**.
C. Roof Cement: ASTM D 4586. **Matrix™ 204 Wet/Dry Roof Cement.**

2.08 ATTIC VENTILATION
A. As Required

2.09 NAILS
A. Standard round wire, zinc-coated steel or aluminum; 10 to 12 gauge, smooth, barbed or deformed shank, with heads 3/8 inch (9mm) to 7/16 inch (11mm) in diameter. Length must be sufficient to penetrate into solid wood at least 3/4 inch (19mm) or through plywood or oriented strand board by at least 1/8 inch (3.18mm).

2.10 METAL FLASHING
A. .26 gauge hot-dip galvanized steel sheet, complying with ASTM A 653/A 653M, G90/Z275.
B. 16-oz/sq ft (0.56mm) copper sheet, complying with ASTM B 370.
C. 0.032-inch (0.8mm) aluminum sheet, complying with ASTM B 209.

PART III EXECUTION
3.01 EXAMINATION
A. Do not begin installation until the roof deck has been properly prepared.
B. If roof deck preparation is the responsibility of another installer, notify the architect or building owner of unsatisfactory preparation before proceeding.

BOGGS DESIGN PARTNERS
Architecture + Interiors
607 S. ALEXANDER ST.
SUITE 101
PLANT CITY, FL 33563
813 . 946 . 8444

DATE:
ERICA AZORIN CRAIG
FL REG. NO. AR101635
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP/MM
DRAWN BY:	JG/NP/MM
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ARCHITECTURAL SPECIFICATIONS

SHEET NO:
G-015

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SECTION 07 31 13
ASPHALT SHINGLE ROOFING, CONT'D

3.02 PREPARATION – TEAR OFF
A. Remove all existing roofing down to the roof deck.
B. Verify that the deck is dry, sound, clean and smooth. It shall be free of any depressions, waves, and projections. Cover with sheet metal, all holes over 1 inch (25mm) in diameter, cracks over 1/2 inch (12mm) in width, loose knots and excessively resinous areas.
C. Replace damaged deck with new materials.
D. Clean deck surfaces thoroughly prior to installation of eaves protection membrane and underlayment.

3.03 INSTALLATION OF UNDERLAYMENTS
A. General:
1. Install using methods recommended by GAF, in accordance with local building codes. When local codes and application instructions are in conflict, the more stringent requirements shall take precedence.
B. Eaves:
1. Install eaves edge metal flashing tight with fascia boards; lap joints 2 inches (51mm) and seal with plastic cement or high quality urethane sealant; nail at the top of the flange.
2. In the north, and on all roofs between 2/12 and 4/12 (low slopes) install GAF leak barrier up the slope from eaves edge a full 36 inches (914mm) or to at least 24 inches (610 mm) beyond the interior "warm wall". Lap ends 6 inches (152mm) and bond.
C. Valleys:
1. Install eaves protection membrane at least 36 (914mm) inches wide and centered on the valley. Lap ends 6 inches (152mm) and seal.
D. Hips and Ridges:
1. Install GAF leak barrier along entire lengths. If ridge vents are to be installed, position the GAF leak barrier so that the ridge slots will not be covered.
E. Roof Deck:
1. Install one layer of GAF roof deck protection over the entire area not protected by GAF leak barrier at the eaves or valley. Install sheets horizontally so water sheds and nail in place.
2. On roofs sloped at 4:12 or greater, lap horizontal edges at least 2 inches (51mm) and at least 2 inches (51mm) over eaves protection membrane.
3. On roofs sloped between 2:12 to less than 4:12, lap horizontal edges at least 19 inches (482 mm) and at least 19 inches (482mm) over eaves protection membrane.
4. Lap ends at least 4 inches (102 mm). Stagger end laps of each layer at least 36 inches (914 mm).
5. Lap GAF roof deck protection over GAF leak barrier in valley at least 6 inches (152mm).
F. Penetrations:
1. Vent pipes: Install a 24 inch (610 mm) square piece of eaves protection membrane lapping over roof deck underlayment; seal tightly to pipe.
2. Vertical walls: Install eaves protection membrane extending at least 6 inches (152mm) up the wall and 12 inches (305mm) on to the roof surface. Lap the membrane over the roof deck underlayment.
3. Skylights and roof hatches: Install eaves protection membrane from under the built-in counterflashing and 12 inches (305mm) on to the roof surface lapping over roof deck underlayment.
4. Chimneys: Install eaves protection membrane around entire chimney extending at least 6 inches (152mm) up the wall and 12 inches (305mm) on to the roof surface. Lap the membrane over the roof deck underlayment.
5. Rake Edges: Install metal edge flashing over eaves protection membrane and roof deck underlayment; set tight to rake boards; lap joints at least 2 inches (51mm) and seal with plastic cement; secure with nails.

3.04 INSTALLATION OF LEAK BARRIER
A. (FULL DECK)
A. General:
1. Install using methods recommended by GAF, in accordance with local building codes. When local codes and application instructions are in conflict, the more stringent requirements shall take precedence.
2. Installing a GAF Leak Barrier over an entire roofing deck is acceptable, but ventilation precautions must be taken. It is the responsibility of the designer or owner to address the potential for moisture entrapment, excessive moisture build-up, and condensation when using a full-deck application of GAF Leak Barrier.
B. Eaves:
1. Install eaves edge metal flashing tight with fascia boards; lap joints 2 inches (51mm) and seal with plastic cement or high quality urethane sealant; nail at the top of the flange.
C. Roof Deck:
1. Install one layer of GAF leak barrier over the entire area per GAF requirements.

3.05 INSTALLATION OF SHINGLES
A. General:
1. Install in accordance with GAF's instructions and local building codes. When local codes and application instructions are in conflict, the more stringent requirements shall take precedence.
2. Minimize breakage of shingles by avoiding dropping bundles on edge, by separating shingles carefully (not by "breaking" over ridge or bundles), and by taking extra precautions in temperatures below 40 degrees F (4 degrees C).
3. Handle carefully in hot weather to avoid scuffing the surfacing, or damaging the shingle edges.
4. Mansard and steep slope applications: For roof slopes greater than 21" per foot (1750mm/m), shingle must be hand sealed with asphalt plastic cement conforming to ASTM D4586 Type I or II. DO NOT use on vertical side walls.
B. Placement and Nailing:
1. For maximum wind resistance along rakes, install any GAF starter strip containing sealant or cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.
2. Secure shingle per GAF's instructions or local codes.
3. Placement of nails varies based on the type of shingle specified. Consult the application instructions for the specified shingle for details.
4. Nails must be driven flush with the shingle surface. Do not overdrive or under drive the nails.
5. Shingle offset varies based on the type of shingle specified. Consult the application instructions for the specified shingle for details.
C. Valleys
1. Install valleys using the "closed cut valley" method:
a Run the first course of shingles from the higher roof slope across the valley at least 12 inches (305mm).
b Run succeeding courses of shingles from the lower roof slope across the valley at least 12 inches (305mm) and nail not closer than 6 inches (152mm) to center of valley.
c Run shingles from the upper roof slope into the valley and trim 2 inches (51mm) from the center line.
D. Penetrations
1. All Penetrations are to be flashed according to GAF, ARMA and NRCA application instructions and construction details.
E. Skylights and Roof Hatches
1. Consult the manufacturer of the skylight or roof hatch for specific installation recommendations.
2. Skylights and roof hatches shall be installed with pre-fabricated metal flashings specifically designed for the application of the unit.

3.06 INSTALLATION OF ATTIC VENTILATION
A. General
1. Ventilation must meet or exceed current F.H.A., H.U.D. and local code requirements.

3.07 PROTECTION
A. Protect installed products from foot traffic until completion of the project.
B. Any roof areas that are not completed by the end of the workday are to be protected from moisture and contaminants.

END OF SECTION

SECTION 07 62 00
SHEET METAL FLASHING, AND TRIM

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Fabricated sheet metal items, including:
1. Aluminum soffit panels.
2. Flashings, counter flashings, coping, fascia, exposed trim, edges, cleats, caps, sills, drips, etc.
3. Scuppers, gutters, downspouts, and splash pads.
4. Sheet metal accessories.

1.1 REFERENCE STANDARDS
A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; American Architectural Manufacturers Association ; 2012.
B. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Per- forming Organic Coatings on Aluminum Extrusions and Panels ; 2011.
C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process ; 2011.
D. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate ; 2010.
E. ASTM D4586/D4586M - Standard Specification for Asphalt Roof Cement, Asbestos-Free ; 2007 (Reapproved 2012) e1.
F. SMACNA (ASMM) - Architectural Sheet Metal Manual; Sheet Metal and Air Conditioning Contractors' National Association ; 2003.

1.2 SUBMITTALS
A. See Section 01 33 00 - Submittals and Substitutions, for submittal procedures.
B. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.

1.3 QUALITY ASSURANCE
A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
B. Perform work in accordance with SMACNA Architectural Sheet Metal Manual requirements and standard details, except as otherwise indicated.

1.4 DELIVERY, STORAGE, AND HANDLING
A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
B. Prevent contact with materials that could cause discoloration or staining.

PART 2 PRODUCTS

2.1 SHEET MATERIALS
A. Pre-Finished Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 24 gage (0.025 inch) thick base metal, shop pre-coated with PVDF coating.
1. PVDF (Polyvinylidene Fluoride) Coating: Superior Performance Organic Finish, AAMA 2605; multiple coats, thermally cured fluoropolymer finish system.
2. Color: As selected by Architect from manufacturer's standard colors.
B. Aluminum: ASTM B209 ; minimum 20 gage (0.032 inch) thick; anodized finish of color as selected.
1. Clear Anodized Finish: AAMA 611 AA-M12C22A41 Class I clear anodic coating not less than 0.7 mils (0.018 mm) thick.
2. Color Anodized Finish: AAMA 611 AA-M12C22A42/44 Class I integrally or electrolytically colored anodic coating not less than 0.7 mils (0.018 mm) thick.

2.2 SOFFIT PANELS
A. Aluminum Soffit Panels: non-vented flush panels with concealed fasteners to be installed per Florida Product Approval details and instructions.
1. Panel size: 12" wide x 1" deep.
2. Thickness: .04" minimum.
3. Color: To be selected by Architect from manufacturer's standard colors.
4. Basis of Design: Pac-Clad 12" Flush Panel by Petersen Aluminum Corporation, www.pac-clad.com.

2.3 SCUPPERS, LEADERHEADS AND DOWNSPOUTS
A. Materials: Aluminum Sheet: ASTM B209 (ASTM B209M); 0.032 inch (0.8 mm) thick.
B. Gutters: Rectangular profile, 6 inches.
C. Downspouts: SMACNA Rectangular profile, size varies- refer to drawings.
D. Anchors and Supports: Profiled to suit gutters and downspouts.
1. Anchoring Devices: In accordance with CDA and/or SMACNA requirements.
2. Gutter Supports: Brackets.
3. Downspout Supports: Brackets.
E. Fasteners: Galvanized steel, with soft neoprene washers.
F. Splash Pads: Precast concrete type; minimum 3000 psi (21 MPa) at 28 days, with minimum 5 percent air entrainment.

2.4 ACCESSORIES
A. Fasteners: Same metal as flashing/sheet metal or other noncorrosive metal as Solder recommended by sheet metal manufacturer. Match finish of exposed heads with materials being fastened.
B. Solder: ASTM B 32, 50-50 tin/lead solder, with rosin flux.
C. Roofing Cement: ASTM D 2822, asphaltic.
D. Bituminous isolation coating. SSPC- Paint 12, solvent-type bituminous mastic, nominally free of sulfur, compound for 15-mil dry film thickness per coat.
E. Mastic and elastomeric sealant: Polyisobutylene; nonhardening, nonskinning, nondrying, nonmigrating sealant.
F. Reglets and metal accessories: Sheet metal clips, cleats, straps, anchoring devices and similar accessory units as required for installation of work, matching or compatible with material being installed, noncorrosive, size and gage required for performance.
G. Adhesives: Type recommended by flashing sheet metal manufacturer for water/weather resistant seaming and adhesive application of flashing sheet.
H. Epoxy seam sealer: 2-Part noncorrosive metal seam cementing compound, recommended by manufacturer for non-moving joints including riveted joints.
I. Primer: Zinc chromate type.
J. Plastic Cement: ASTM D4586, Type I.

2.5 FABRICATION
A. Fabricate flashing, counterflashing and other sheet metal work not exposed to view of aluminum. Fabricate flashing, gutters, downspouts, conductor heads, scuppers, copings, caps, edges, trim, and other exposed sheet metal work of pre-finished galvanized steel sheets.
B. Fabricate for waterproof and weather resistant performance; with expansion provisions for running work, sufficient to permanently prevent leakage, damage or deterioration of the work. Form work to fit substrates.
C. Fabricate pre-finished steel with strippable film in place. If soldering is necessary, mechanically remove coating. Touch up with color matched paint.
D. Seams: Fabricate non-moving seams in sheet metal with flat-lock seams. Form aluminum seams with epoxy seam sealer; rivet joints for additional strength where required.
E. Form material with flat lock seams, except where otherwise indicated. At moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.
F. Expansion Provisions: Where lapped or bayonet-type expansion provisions cannot be used, or would not be sufficiently water/weatherproof, form expansion joints of intermeshing hooked flanges, not less than 1-inch deep, filled with mastic sealant (concealed within joints).
G. Sealant Joints: Where movable, non-expansion type joints are indicated or required for proper performance of work, form metal to provide for proper installation of elastomeric sealant.
H. Separate dissimilar metals from each other to prevent electrolytic action by painting each metal surface in area of contact with a heavy application of bitumastic coating, or by other permanent separation as recommended by manufacturers of dissimilar metals.
I. Form sections true to shape, accurate in size, square, and free from distortion or defects.
J. Form pieces in longest possible lengths.
K. Hem exposed edges on underside 1/2 inch (13 mm); miter and seam corners.
L. Fabricate corners from one piece with minimum 18 inch (450 mm) long legs; seam for rigidity, seal with sealant.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, reglets in place, and nailing strips located.
B. Verify roofing termination and base flashings are in place, sealed, and secure.

3.2 INSTALLATION
A. Follow recommendations of SMACNA and AA Manuals for specific application.
B. Install materials and systems in accordance with manufacturer's instructions. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
C. Anchor units of work securely in place by methods indicated, providing for thermal expansion of metal units; conceal fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams, which will be permanently watertight and weatherproof.
D. Secure flashings in place using concealed fasteners. Use exposed fasteners only where permitted.
E. Apply plastic cement compound between metal flashings and felt flashings.
F. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to profiles.
G. Remove strippable film from pre-painted steelwork. Restore damaged components and finishes. Clean and protect work from damage.

END OF SECTION

SECTION 07 92 00
JOINT SEALANTS

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Sealants and joint backing.

1.2 REFERENCE STANDARDS
A. ASTM C834 - Standard Specification for Latex Sealants ; 2010.
B. ASTM C920 - Standard Specification for Elastomeric Joint Sealants ; 2011.
C. ASTM C1193 - Standard Guide for Use of Joint Sealants ; 2011a.

1.3 SUBMITTALS
A. Product Data: Provide data indicating sealant chemical characteristics.

1.4 FIELD CONDITIONS
A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Gunnable and Pourable Sealants:
1. BASF Construction Chemicals-Building Systems: www.buildingsystems.basf.com.
2. Bostik Inc: www.bostik-us.com.
3. Dow Corning Corporation: www.dowcorning.com.
4. Substitutions: See Section 01 60 00 - Product Requirements.

2.2 JOINT SEALANTS
A. Nonsag (Gunnable) Polyurethane Sealant: ASTM C920; single or multi-component.
1. Color: Match adjacent finished surfaces.
2. Applications: Use for the following joints in secure areas.
a. Joints between door and window frames and wall surfaces.
b. Vertically oriented exterior and interior joints where metal or aluminum is used.
B. General Purpose Interior Sealant: Acrylic emulsion latex; ASTM C834; single component; paintable.
1. Color: Match adjacent finished surfaces.
2. Applications:
a. Interior wall and ceiling control joints.
b. Joints between door and window frames and wall surfaces.
c. Other interior joints for which no other type of sealant is indicated.
d. Tile Sealant: White silicone; ASTM C920; single component; mildew resistant.
3. Applications:
a. Joints between plumbing fixtures and floor and wall surfaces.
b. Joints between kitchen and bath countertops and wall surfaces.
c. Acoustic Sealant: Nonsag, paintable, nonstaining latex acoustical sealant complying with ASTM C834 and ASTM C919.
4. Applications:
a. Maintain STC ratings of sound rated partitions and other assemblies as indicated on the drawings.

2.3 ACCESSORIES
A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
C. Joint Backing: Round foam rod compatible with sealant; ASTM D 1667, closed cell PVC; oversized 30 to 50 percent larger than joint width .
D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify that substrate surfaces are ready to receive work.
B. Verify that joint backing and release tapes are compatible with sealant.

3.2 PREPARATION
A. Remove loose materials and foreign matter that could impair adhesion of sealant.
B. Clean and prime joints in accordance with manufacturer's instructions.
C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
D. Protect elements surrounding the work of this section from damage or disfigurement.

3.3 INSTALLATION
A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
B. Perform installation in accordance with ASTM C1193.
C. Install bond breaker where joint backing is not used.
D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
E. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
F. Tool joints concave.

END OF SECTION

SECTION 08 11 13
HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Non-fire-rated steel doors and frames.
B. Steel frames for wood doors.
C. Thermally insulated steel doors.
D. Sound-rated steel doors and frames.
E. Steel glazing frames.

1.2 RELATED REQUIREMENTS
A. Section 08 80 00 – Glazing

1.3 REFERENCES
A. The intent of this document is that all hollow metal and its application will comply or exceed the standards identified below. The latest published edition of each reference applies.
1. ANSI A115.IG, "Installation Guide for Doors and Hardware."
2. ANSI/ICC A117.1 – American National Standard for Accessible and Useable Buildings and Facilities' International Code Council; 2009.
3. ANSI/BHMA A 156.115 - Hardware Preparations in Standard Steel Doors and Frames.
4. ANSI A250.3 Test Procedure and Acceptance Criteria for Factory Applied Finish Coatings for Steel Doors and Frames.
5. ANSI A 250.8 - SDI-100 Specifications for Standard Steel Doors and Frames.
6. ANSI A 250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
7. HMMA 840 – Guide Specifications for Installation and Storage of Hollow Metal Doors and Frames; The Notional Association of Architectural Metal Manufacturers; 2007.
8. ASTM E90 – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2011.
9. ASTM – E413 – Classification for Rating Sound Insulation; 2010.

1.4 SUBMITTALS
A. See Section 01 30 00 Administrative Requirements for submittal procedures.
B. Product Data: Material and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of reference grade standard.
C. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and identifying location of different finishes, if any.
D. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.
E. Manufacturer's Certificate: Certification that products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

1.6 DELIVERY, STORAGE AND HANDLING
A. Storage in accordance with NAAMM/HMMA 840.
B. Protect resilient packaging; avoid humidity build-up under coverings; prevent corrosion.
C. If cardboard wrapping becomes wet, remove cartons immediately.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Steel Doors and Frames:
1. Assa Abloy CECO, Curies, or Fleming: www.assaabloydss.com.
2. Republic Doors & Frames: www.republicdoor.com.
3. Steelcraft, an Ingersoll Rand brand: www.steelcraft.com
4. Approved equal. Substitutions: See Section 01 60 00 – Product Requirements.
B. Mesker Door and Frames: www.meskerdoor.com

2.2 MATERIALS
A. Uncoated Steel Sheet: Cold rolled commercial steel sheet complying with ASTM A 366/A366M

2.3 DOORS
A. Requirements for All Doors and Frames
1. Accessibility: Comply with ANSI/ICC A117.1, ADA 2010, and Florida Accessibility Code 2020.
2. Door Top Closures: Flush with top of faces and edges.
3. Door Edge Profile: Beveled on both edges.
4. Face Material: Cold Roll steel sheet.
5. Door Texture: Smooth faces.
6. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.
7. Hardware Preparation: In accordance with BHMA A156.115, with reinforcement welded in place, in addition to other requirements specified in door grade standard.
8. Finish: Factory primed, for field finishing.
B. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with all the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

2.4 STEEL DOORS
A. Exterior Doors: Full flush (No Vertical Face Seams), face panels laminated to core and complete unit closed with steel perimeter channels projection welded to face sheets.
1. Grade: ANSI/SDI-100, Grade 2, Heavy Duty, minimum 18 Ga. Cold rolled sheet steel.
2. Galvanizing: All components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness.
3. Thickness: 1-3/4 inches (44mm).
4. Core: Doors fabricated by laminating panels to a specified core and the complete unit closed with steel perimeter channels, projection welded to the face sheets. Core shall be as follows:
a. Polyurethane core.
5. Insulated Door shall have:
a. A "U Factor" of 0.125 for a Polyurethane core.
b. Interior Doors: Full flush (No Vertical Face Seams)
6. Grade: ANSI/SDI-100, Grade 2, Heavy Duty, minimum 18 Ga. cold rolled sheet steel
7. Thickness: 1-3/4 inches (44mm).

2.5 STEEL FRAMES
A. General: Formed steel sheet, with 2 inch (50 mm) wide face jambs and heads unless otherwise indicated' complying with ANSI A250.8.
1. Comply with the requrements of grade specified for corresponding door, except:
a. ANSI A250.8 Level 1 Doors: 16 gauge frames.
b. Frames for Wood Doors: Comply with frame requirements specified in ANSI A250.8 for Level 1, 16 gage.
2. Finish: Factory primed, for field finishing.
B. Reinforcements for 1-3/4 inch (44mm) Frames:
1. Hinge Reinforcements: 9 gage (3.8 mm).
2. Strike Reinforcements: 10 gage (3.4 mm) equivalent.
3. Closer Reinforcements: 12 gage (2.6 mm).
C. Exterior Door Frames: Face welded, seamless with joints filled.
1. Galvanizing: All components hit-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness.
2. Weatherstripping: Separate, see Section 08 71 00.
D. Interior Door Frames: Non-Fire-Rated: Face welded.
E. Frames for Interior Glazing or Borrowed Lights: Construction and face dimensions to match door frames, and as indicated on drawings.
F. Frame Anchors: Minimum of six wall anchors and two base anchors. (Additional anchor for every 30" over 90")

2.6 ACCESSORIES
A. Glazing: As specified in Section 08 80 00, factory installed.
B. Astragals for pairs of doors: Specified in Section 08 71 00.
1. Exterior Doors: Steel, Z-shaped.
C. Silencers: Resilient rubber, fitted into drilled hole; 3 on strike side of single door, and 2 on head of pairs without center mullions.
D. Temporary Frame Spreaders: Provide for all factory- or shop-assembled frames.

2.7 FINISH MATERIALS
A. Primer: Rust inhibiting, complying with ANSI A250.10, door manufacturer's standard.
B. Preparation: Clean and phosphatize surfaces of steel doors and frames.
C. Factory Finish: Complying with ANSI A250.3, manufacturer's standard coating.
1. Paint with alkyd acrylic enamel using a two-coat process, with each coat being force cured after each coating.
2. Color: To be selected by Architect from manufacturer's standard range.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify that project conditions are acceptable for installation of doors and frames in accordance with manufacturer's installation instruction and technical bulletins before starting work.
B. Verify that opening sizes and tolerances are acceptable.
C. Verify door frame openings are installed plumb, true, and level.
D. Select fasteners of adequate type, number, and quality to perform intended functions.

3.2 INSTALLATION
A. Install doors and frames in accordance with the requirements of the specified door grade standard and NAAMM/HMMA 840.
B. Install doors to maintain alignment with frames to achieve maximum operational effectiveness and appearance. Adjust to maintain perimeter clearances as required. Shim as needed to assure the proper clearances are achieved.
C. Coordinate frame anchor placement with wall construction.
D. Coordinate installation of hardware.
E. Coordinate installation of glazing.
F. Touch up any damaged factory finishes.
G. Install hardware as specified in Section 08 71 00 in accordance with the hardware manufacturer's recommendations and templates. ANSI A115.IG, "Installation Guide for Doors and Hardware" shall be consulted for other pertinent information.

3.3 TOLERANCES
A. Clearances Between Door and Frame: As specified in ANSI A250.8.
B. Maximum Diagonal Distortion: 1/16 inch (1.5 mm) measured with straight edge, corner to corner.

3.4 ADJUSTING
A. Adjust for smooth and balances door movement.
B. Adjust hinge set, locksets, and other hardware. Lubricate using a suitable lubricant compatible with door and frame coatings.
C. Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions before owner's acceptance. Dispose of debris associated with this work.

3.5 PROTECTION
A. Protect installed products and finished surfaces from damage during construction.

3.6 SCHEDULE
A. Refer to Door and Frame Schedule on the drawings.

END OF SECTION

BDP
BOGGS DESIGN PARTNERS
Architecture + Interiors
607 S. ALEXANDER ST.
SUITE 101
PLANT CITY, FL 33563
813 . 946 . 8444

DATE:
ERICA AZORIN CRAIG
FL REG. NO. AR101635
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP/MM
DRAWN BY:	JG/NP/MM
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ARCHITECTURAL SPECIFICATIONS

SHEET NO:
G-016

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SECTION 08 14 16
FLUSH WOOD DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Flush wood doors, flush configuration, non-rated and acoustical.

1.2 REFERENCE STANDARDS
A. ASTM E413 – Classification for Rating Sound Insulation; 2010
B. ASTM E1408 – Standard Test Method for Laboratory Measurement of the Sound Transmission Loss of Door Panels and Door Systems, 1991 (Reapproved 2000).
C. AWI/AWAC/WI (AWS) – Architectural Woodwork Standards; 2009.
D. WDMA IS.1-A – Architectural Wood Flush Doors, Window and Door Manufacturers Association; 2011.

1.3 SUBMITTALS
A. See Section 01 30 00 – Administrative Requirements for submittal procedures.
B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.
C. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory matching, factor finishing, cutouts for glazing and other details.
D. Specimen warranty.
E. Test Reports: Show compliance with specified requirements for the following:
1. Sound-retardant doors and frames; sealed panel tests are not acceptable.
F. Samples: Submit two samples of door construction, 12 by 12-inch size cut from top corner of door.
G. Samples: Submit two samples of door veneer, 2 by 12 inch in size illustrating wood grain, stain color and sheen.
H. Manufacturer's installation instructions: Indicate special installation instructions.
I. Warranty, executed in Owner's name.

1.4 QUALITY ASSURANCE
A. Maintain one copy of the specified door quality standard on site for review during installation and finishing.
B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
C. Quality Standard: Meet or exceed WDMA I.S. – A Premium Grade.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Package, delivery and store doors in accordance with specified quality standard.
B. Accept doors on site in manufacturer's packaging. Inspect for damage.
C. Protect doors with resilient packaging sealed with heat shrunk plastic. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer if stored more than one week. Break seal on site to permit ventilation.
D. Cover with tarp or opaque plastic wrapping to keep clean and protect them from dust and light, and allow air circulation. If stored for long periods, the top and bottom of unfinished doors must be sealed.
E. Doors and jambs should not be exposed to excessive moisture, heat, dryness, or direct sunlight.
F. When carried, products should be lifted and not dragged across one another.
G. Certain species such as cherry, mahogany, walnut, teak are more susceptible to discoloration if exposed to either sunlight or some intense artificial light. To protect products that have been unpacked on the field from light damage, cover with tarp or opaque plastic wrapping.
H. Store products at least 4" (101.6mm) off floor, flat on a level surface in a clean, dry, well-ventilated area protected from sunlight, wide swings in relative humidity, and abnormal heat or cold. Relative humidity should not be less than 25% no more than 55%.

1.7 WARRANTY
A. See Section 01 78 00- Closeout Submittals for additional warranty requirements.
B. Interior Doors: Provide manufacturer's warranty for the life of the installation.
C. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Wood Veneer Faced Doors
1. Eggers Industries: www.eggersindustries.com.
2. Haley Brothers: www.haleybros.com.
3. Marshfield Door Systems, Inc.: www.marshfielddoors.com
4. Approved equal: Substitutions: See Section 01 60 00 – Product Requirements.

2.2 DOORS AND PANELS
A. All doors: See drawings for locations and additional requirements.
1. Quality Level: Custom Grade, Extra Heavy-Duty performance, in accordance with AWI/AWMAC/WI Architectural Woodwork Standards.
2. Wood Veneer Faced Doors: 5-Ply unless otherwise indicated.
3. Workmanship: AWI workmanship for veneer faces, vertical edges, crossbands, horizontal edges and dimensional tolerances. Extra Heavy Duty Performance Level.
B. Interior Doors: 1- ¾ inches (44 mm) thick unless indicated: flush construction.
1. Provide solid core doors at all locations.
2. Sound Retardant Doors: Minimum STC of 52, calculated in accordance with ASTM E413, tested in accordance with ASTM E1408.
3. Maple wood veneer facing for field finish, Stain: Minwax MW409 Charcoal, satin finish

2.3 DOOR AND PANEL CORES
A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PD), plies and faces as indicated above.
B. Sound Retardant Doors: Equivalent to Type PC construction with core as required to achieve rating specified: plies and faces as indicated above.

2.4 DOOR FACINGS
A. Wood Veneer Facing for Transparent Finish: Maple, Stain: Minwax MW409 Charcoal, stain finish, veneer grade as specified by quality standard, rotary cut, book veneer match, running assembly match unless otherwise indicated.

2.5 DOOR CONSTRUCTION
A. Fabricate doors in accordance with door quality standard specified.
B. Cores Constructed with stiles and rails.
C. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.
D. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.
1. Exception: Doors to field finished.
E. Provide edge clearances in accordance with the quality standard specified.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify existing conditions before starting work.
B. Verify that opening sizes and tolerances are acceptable.
C. Do not install doors in frame opening that are not plumb or are out-of-tolerance for size or alignment.

3.2 INSTALLATION
A. Install door in accordance with manufacturer's instructions and specified quality standard.
B. Use machine tools to cut or drill for hardware.
C. Pilot drill screw and bolt holes using templates provided by hardware.
D. Coordinate installation of doors with installation for frame and hardware.
E. Provide side lite when specified on the plans. Coordinate installation of glass with glass side lites.
F. Allow a fitting clearance of 1/8" at each side and at top of door.
G. Reseal or refinish any doors that required site alteration.

3.3 TOLERANCES
A. Conform to specified quality standard for fit and clearance tolerances.
B. Conform to AWI standards and testing methods for warp, cup, bow, squareness, and telegraphing.

3.4 ADJUSTING
A. Adjust doors for smooth and balanced door movement.
B. Adjust closers for full closure.

3.5 SCHEDULE – SEE DRAWINGS

END OF SECTION

SECTION 084113
ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY
A. This Section covers Kawneer Aluminum Entrances, including glass and glazing, door hardware, and components.
B. Types of Kawneer Aluminum Entrances include:
1. 500T Insulpour® Thermal Entrance:
a. Wide stile
b. Vertical face dimension: 5" (127.0 mm)
c. Depth: 2-1/4" (57.2 mm)
d. High traffic applications
e. Related Sections:
2. 079200: Joint Sealants
3. 087100: Door Hardware
4. 088000: Glazing

1.3 DEFINITIONS
A. For fenestration industry standard terminology and definitions, refer to the Fenestration & Glazing Industry Alliance (FGIA) Glossary (AAMA AG-13).

1.4 PERFORMANCE REQUIREMENTS
A. General Performance:
1. Aluminum-framed entrance system shall withstand the effects of the following performance requirements without failure due to defective manufacture, fabrication, installation, or other defects in construction.
B. Wind Loads:
1. The entrance system shall include anchorage that is capable of withstanding the following wind load design pressures as noted in the drawings, refer to Structural specifications.
2. The design pressures are based on the Florida Building Code 2020, 7th Edition.
C. Air Leakage:
1. For single-acting offset pivot or butt-hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 1.57 psf (75 Pa) for single doors and pairs of doors.
2. A single 3'0" x 7'0" (915 mm x 2134 mm) entrance door and frame shall not exceed 1.0 cfm/ft2.
3. A pair of 6'0" x 7'0" (1830 mm x 2134 mm) entrance doors and frame shall not exceed 1.0 cfm/ft2.
D. Uniform Load:
1. A static air design load shall be applied in the positive and negative direction in accordance with ASTM E 330:
a. 500T: 70 psf (3360 Pa) for single doors and 60 psf (2880 Pa) for pairs of doors
2. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.
E. Structural-Test Performance:
1. Corner strength shall be tested per the Kawneer dual moment load test procedure and certified by an independent testing laboratory to ensure weld compliance and corner integrity. (Testing procedure and certified test results are available upon request.)
F. Energy Efficiency:
1. Thermal transmittance (U-factor):
a. Thermal transmittance test results in accordance with AAMA 1503 or CSA A440 are based upon 1" (25.4 mm) clear high-performance insulating glass [1/4" (e=0.035, #2), 1/2" warm edge spacer and argon fill gas, 1/4"].
b. When tested to AAMA Specification 1503, the thermal transmittance (U-factor) for 250T shall not be more than: 0.40 (low-e insulating glass).
2. Condensation Resistance Factor (CRF) or Condensation Index (CI):
a. If using CRF, when tested to AAMA Specification 1503, the CRF for 250T shall not be less than 49frame and 68glass (1" low-e insulating glass with warm edge spacer).
b. If using CI, when tested to CSA A440-00, the CI for 250T shall not be less than 37frame and 66glass (1" low-e insulating glass with warm edge spacer).
3. Solar Heat Gain Coefficient (SHGC):
a. Glazed, thermally broken aluminum door and frame shall have a solar heat gain coefficient of no greater than 0.25 as determined according to NFRC 200.
4. Visible Transmittance:
a. Glazed, thermally broken aluminum door and frame shall have a visible transmittance of no greater than 0.75 as determined according to NFRC 200.
b. Sound Transmission Loss:
5. When tested to ASTM E90 and ASTM E1425, the Sound Transmission Class (STC) and Outdoor/Indoor Transmission Class (OITC) shall not be less than:
a. 250T: STC 37 or OITC 32 based upon 1" (25.4 mm) insulating glass (1/4", 1/2" AS, 1/4")
b. Forced Entry:
6. Performance shall be tested in accordance with AAMA 1304.
G. Environmental Product Declaration (EPD): Shall have an Aluminum Extrusions EPD.

1.5 SUBMITTALS
A. Product Data:
1. For each type of aluminum-framed entrance door indicated, include:
a. Construction details
b. Material descriptions
c. Fabrication methods
d. Dimensions of individual components and profiles
e. Hardware
f. Finishes
g. Installation instructions
B. Shop Drawings:
1. Plans
2. Elevations
3. Sections
4. Details
5. Hardware
6. Attachments to other work
7. Operational clearances
8. Installation details
C. Samples for Initial Selection:
1. Provide samples for units with factory-applied color finishes.
2. Provide samples of hardware and accessories involving color selection.
D. Samples for Verification:
1. Provide a verification sample for aluminum-framed entrance doors and required components.
E. Product Test Reports:
1. Provide test reports for each type of aluminum-framed entrance door used in the project.
2. Test reports must be based on evaluation of comprehensive tests performed by a qualified preconstruction testing agency.
3. Test reports must indicate compliance with performance requirements.
F. Fabrication Sample:
1. Provide a fabrication sample of a corner, consisting of a door stile and rail and using full-size components that show details of the following:
a. Joinery,
b. Glazing
G. Entrance Door Hardware Schedule:
1. Schedule shall be prepared by or under the supervision of supplier.
2. Schedule shall detail fabrication and assembly of entrance door hardware, including procedures and diagrams.
3. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.

1.6 QUALITY ASSURANCE
A. Installer Qualifications:
1. Installer must have successfully installed the same or similar units required for the project and other projects of similar size and scope.
B. Manufacturer Qualifications:
1. Manufacturer must be capable of fabricating aluminum-framed entrance doors and storefronts that meet or exceed the stated performance requirements.
2. Manufacturer must document this performance by the inclusion of test reports and calculations.
C. Source Limitations:
1. Obtain aluminum-framed entrance doors through one source from a single manufacturer.
D. Product Options:
1. Drawings indicate size, profiles, and dimensional requirements of aluminum-framed entrance doors and are based on the specific system indicated. Refer to Division 01 Product Requirements Section. Do not modify size and dimensional requirements.
2. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.
E. Mockups:
1. Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
2. Build mockup for the type(s) of swing entrance door(s) indicated, in location(s) shown on drawings.
F. Pre-installation Conference:
1. Conduct conference at project site to comply with requirements in Division 01 Project Management and Coordination Section.

1.7 PROJECT CONDITIONS
A. Field Measurements:
1. Verify actual dimensions of thermally broken aluminum-framed door openings by field measurements before fabrication.
2. Indicate measurements on shop drawings.

1.8 WARRANTY
A. Submit manufacturer's standard warranty for owner's acceptance.
B. Warranty Period:
1. Two years from Date of Substantial Completion of the project provided however that in no event shall the Limited Warranty begin later than six months from date of shipment by manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Basis-of-Design Product:
1. Kawneer Company, Inc.
2. The door stile and rail face dimensions of the entrance door will be as follows:
a. 500T Insulpour® Thermal Entrance:
1. Vertical face dimension: 5" (127.0 mm)
2. Top Rail: 5" (127.0 mm)
3. Bottom Rail: 12" (304.8 mm)
3. Major portions of the door members shall be 0.125" (3.2 mm) nominal thickness.
4. Glazing molding shall be 0.05" (1.3 mm) thick.
5. Glazing gaskets shall be either EPDM elastomeric extrusions or a thermoplastic elastomer.
6. Provide adjustable glass jacks to help center the glass in the door opening.
B. Subject to compliance with requirements, provide a comparable product by the following:
C. Substitutions:
1. Refer to Division 01 Substitutions Section for procedures and submission requirements.
2. Pre-Contract (Bidding Period) Substitutions:
a. Submit written requests ten (10) days prior to bid date.
3. Post-Contract (Construction Period) Substitutions:
a. Submit written request in order to avoid installation and construction delays.
4. Product Literature and Drawings:
a. Submit product literature and drawings modified to suit specific project requirements and job conditions.
5. Certificates:
a. Submit certificate(s) certifying that the substitute manufacturer (1) attests to adherence to specification requirements for aluminum entrance and storefront system performance criteria, and (2) has been engaged in the design, manufacture, and fabrication of aluminum entrances and storefronts for a period of not less than ten (10) years. (Company Name)
6. Test Reports:
a. Submit test reports verifying compliance with each test requirement required by the project.
7. Samples:
a. Provide samples of typical product sections and finish samples in manufacturer's standard sizes.
D. Substitution Acceptance:
1. Acceptance will be in written form, either as an addendum or modification.
2. Acceptance will be documented by a formal change order signed by the owner and contractor.
a. Acceptable Manufactures.
1. Kawneer
2. Tubelite
3. YKK AP
4. EFCO
5. Or Approved Equal

2.2 MATERIALS
A. Aluminum Extrusions:
1. Alloy and temper recommended by aluminum-framed entrance door manufacturer for strength, corrosion resistance, and application of required finish.
2. Not less than 0.125" (3.2 mm) wall thickness at any location for the main frame and door leaf members.
B. Fasteners:
1. Aluminum, nonmagnetic stainless steel or other materials must be non-corrosive and compatible with aluminum members, trim hardware, anchors, and other components.
C. Anchors, Clips, and Accessories:
1. Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating.
2. Anchors, clips, and accessories shall provide sufficient strength to withstand the design pressure indicated.
D. Reinforcing Members:
1. Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating.
2. Reinforcing members must provide sufficient strength to withstand the design pressure indicated.
E. Slide-In-Type Weather-Stripping:
1. Provide woven-pile weather stripping of wool, polypropylene, or nylon pile and resin-impregnated backing fabric.
2. Comply with AAMA 701/702.
F. Weather Seals:
1. Provide weather stripping with integral barrier fin or fins of semi-rigid, polypropylene sheet or polypropylene-coated material.
2. Comply with AAMA 701/702.
G. Thermal Barrier:
1. Shall be IsoPour™ utilizing two continuous rows of polypropylene with a nominal 7/32" (5.5 mm) separation that consists of a two-part, chemically curing high density polyurethane which is mechanically and adhesively bonded to the aluminum at door rails and stiles.

2.3 STOREFRONT ENTRANCE FRAMING SYSTEM
A. Storefront Entrance Framing:
1. Trifab® VersaGlaze® 451T
2. Thermally Broken Entrance Framing:
a. Kawneer IsoLock® Thermal Break with a 1/4" (6.4 mm) separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.
b. Thermal break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA505.
c. Reinforcements:
3. Manufacturer's standard high-strength aluminum with non-staining, non-ferrous shims for aligning system components.
B. Fasteners and Accessories:
1. Manufacturer's standard corrosion-resistant, non-staining, non-bleeding fasteners and accessories must be compatible with adjacent materials.
2. Where exposed, fasteners and accessories shall be stainless steel.
C. Perimeter Anchors:
1. When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.
D. Packing, Shipping, Handling, and Unloading:
1. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
E. Storage and Protection:
1. Store materials so that they are protected from exposure to harmful weather conditions.
2. Handle material and components to avoid damage.
3. Protect material against damage from elements, construction activities, and other hazards before, during, and after installation.

2.4 GLAZING
A. Glazing shall comply with requirements in Division 08 Glazing Section.
B. Glazing Gaskets:
1. Manufacturer's standard compression types
2. Replaceable, extruded EPDM rubber
C. Spacers and Setting Blocks:
1. Manufacturer's standard elastomeric type

2.5 HARDWARE
A. General Hardware Requirements:
1. Provide manufacturer's standard hardware.
2. Hardware shall be fabricated from aluminum, stainless steel, or other corrosion-resistant material that is compatible with aluminum.
3. Hardware shall be designed to smoothly operate, tightly close, and securely lock aluminum-framed entrance doors.
B. Standard Hardware:
1. Weather-Stripping:
a. Meeting stiles on pairs of doors shall be equipped with two lines of weather-stripping using wool pile with polymeric fin.
b. The door weathering on a single acting offset pivot or butt hung door and frame (single or pairs) shall be comprised of a thermoplastic elastomer weathering on a tubular shape with a semi-rigid polymeric backing and a wool pile with polymeric fin.
2. Sill Sweep Strips:
a. EPDM blade gasket sweep strip in an aluminum extrusion applied to the interior exposed surface of the bottom rail with concealed fasteners (necessary to meet specified performance tests)
3. Threshold:
a. Extruded aluminum
b. Thermally broken
c. Ribbed surface
d. ADA compliant
4. Offset Pivots with Optional EL for access control
5. Butt Hinge:
a. Kawneer® standard is stainless steel with powder coating and non-removable pin (NRP).
b. Optional EL for access control
6. Push/Pull: Standard "Architect's Classic" style
7. Closer: Low Energy Closer mounted on push side
8. Security Lock/Dead Lock:
a. Active Leaf: Adams Rite MS-1850-050
b. Inactive Leaf: Kawneer Flush bolt
9. Latch Handle: Adams Rite 4510 Dead latch, ADA compliant lever handle
10. Cylinder(s)/Thumbturn: Standard keyed cylinder
11. Electric Strike/Strike Keeper: Adams Rite 7130

2.6 FABRICATION
A. Fabricate aluminum-framed entrance doors in sizes indicated.
B. Include a complete system for assembling components and anchoring doors.
C. Fabrication requirements:
1. Thermally broken aluminum-framed doors shall be reglazable without dismantling perimeter framing.
2. Door corner construction:
a. Mechanical clip fastening
b. SIGMA deep-penetration plug welds
c. 1" (25.4 mm) long fillet welds inside and outside of all four corners
d. Hook-in type glazing stops with EPDM glazing gaskets reinforced with non-stretchable cord
3. Joint construction:
a. Accurately fit and secure joints and corners.
b. Make joints hairline in appearance.
4. Prepare components with internal reinforcement for door hardware.
5. Arrange fasteners and attachments to conceal from view.
D. Weather-stripping:
1. Provide weather-stripping locked into extruded grooves in door panels or frames as indicated on manufacturer's drawings and details.

2.7 ALUMINUM FINISHES
A. Finish designations that are prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
B. Factory Finishing:
1. Kawneer Permafluor™ (70% PVDF), AAMA 2605, Fluoropolymer Coating, Color: Black.

PART 3 EXECUTION

3.1 EXAMINATION
A. With installer present, examine openings, substrates, structural support, anchorage, and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of work:
1. Verify rough opening dimensions.
2. Verify levelness of sill plate.
3. Verify operational clearances.
4. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components for proper water management.
5. Masonry Surfaces:
a. Masonry surfaces must be visibly dry and free of excess mortar, sand, and other construction debris.
6. Wood Frame Walls:
a. Wood frame walls must be dry, clean, sound, well nailed, free of voids, and without offsets at joints.
b. Ensure that nail heads are driven flush with surfaces in opening and within 3" (76.2 mm) of opening.
7. Metal Surfaces:
a. Metal surfaces must be dry and clean (free of grease, oil, dirt, rust, corrosion, and welding slag).
b. Ensure that metal surfaces are without sharp edges or offsets at joints.
c. Proceed with installation only after correcting unsatisfactory conditions.

3.2 INSTALLATION
A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing thermally broken aluminum-framed entrance doors, hardware, accessories, and other components.
B. Install thermally broken aluminum-framed entrance doors so that the doors:
1. Are level, plumb, square, and true to line
2. Are without distortion and do not impede thermal movement
3. Are anchored securely in place to structural support
4. Are in proper relation to wall flashing and other adjacent construction
C. Set the sill threshold in a bed of sealant, as indicated, for weathertight construction.
D. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

3.3 FIELD QUALITY CONTROL
A. Manufacturer's Field Services:
1. Upon owner's written request, provide periodic site visit by manufacturer's field service representative.

3.4 ADJUSTING, CLEANING, AND PROTECTION
A. Adjusting: Not applicable.
B. Protection:
1. Protect installed product's finish surfaces from damage during construction.
C. Cleaning:
1. Avoid damaging protective coatings and finishes.
2. Clean glass and aluminum surfaces of product immediately after installation.
3. Comply with glass manufacturer's written recommendations for final cleaning and maintenance.
4. Remove non-permanent labels and clean surfaces.
5. Remove excess sealants, glazing materials, dirt, and other substances.
6. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during the construction period.
7. Remove construction debris from project site and legally dispose of debris.

END OF SECTION

BDP
BOGGS DESIGN PARTNERS
Architecture + Interiors
607 S. ALEXANDER ST.
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PLANT CITY, FL 33563
813 . 946 . 8444

DATE:
ERICA AZORIN CRAIG
FL REG. NO. AR101635
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

BALDWIN ROOFING CO.
ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG/NP
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ARCHITECTURAL SPECIFICATIONS

SHEET NO:
G-017

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SECTION 08 71 00
DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY
A. This Section includes commercial door hardware for the following:
1. Swinging doors.
2. Sliding doors.
3. Other doors to the extent indicated.
B. Door hardware includes, but is not necessarily limited to, the following:
1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Cylinders specified for doors in other sections.
C. Related Sections:
1. Division 06 Section “Rough Carpentry”.
2. Division 06 Section “Finish Carpentry”.
3. Division 08 Section “Hollow Metal Doors and Frames”.
4. Division 08 Section “Flush Wood Doors”.
5. Division 08 Section “Aluminum-Framed Entrances and Storefronts”.
6. Division 28 Section “Access Control Hardware Devices”.
D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ANSI/SDI A250.13 - Testing and Rating of Severe Windstorm Resistant Components for Swing Door Assemblies.
3. ICC/IBC - International Building Code.
4. NFPA 70 - National Electrical Code.
5. NFPA 80 - Fire Doors and Windows.
6. NFPA 101 - Life Safety Code.
7. NFPA 105 - Installation of Smoke Door Assemblies.
8. TAS-201-94 - Impact Test Procedures.
9. TAS-202-94 - Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components using Uniform Static Air Pressure.
10. TAS-203-94 - Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.
11. State Building Codes, Local Amendments.
E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS
A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:
a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.
h. Warranty information for each product.
4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
C. Shop Drawings: Details of electrified access control hardware indicating the following:
1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
b. Complete (risers, point-to-point) access control system block wiring diagrams.
c. Wiring instructions for each electronic component scheduled herein.
2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
E. Informational Submittals:
1. Hurricane Resistant Openings (State of Florida): Within the State of Florida, provide copy of current State of Florida Product Approval as proof of compliance that doors, frames and hardware for exterior opening assemblies have been tested and approved for use at the wind load and design pressure and debris impact resistance level requirements specified for the Project.
a. Hurricane Resistant Components (State of Florida): Within the State of Florida, provide copy of independent, third party certified listing to ANSI A250.13.
2. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS
A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE
A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
F. Hurricane Resistant Exterior Openings (State of Florida including the High Velocity Hurricane Zone (HVHZ)): Provide exterior door hardware as complete and tested assemblies, or component assemblies, including approved doors and frames specified under Section 081113 “Hollow Metal Doors and Frames”, to meet the design pressures, debris impact resistance, and glass and glazing requirements as detailed in the current State of Florida building code sections applicable to the Project.
1. Each unit to bear third party permanent label in accordance with the Florida Building Code requirements.
G. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.
I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures
J. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE AND HANDLING
A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION
A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.
C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY
A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.
C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS
A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

2.2 BUTT HINGES
A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
1. Quantity: Provide the following hinge quantity:
a. Two Hinges: For doors with heights up to 60 inches.
b. Three Hinges: For doors with heights 61 to 90 inches.
c. Four Hinges: For doors with heights 91 to 120 inches.
d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
4. Hinge Options: Comply with the following:
a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.
5. Manufacturers:
a. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.3 CONTINUOUS HINGES
A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
1. Where specified, provide modular continuous geared hinges that ship in two or three pieces and form a single continuous hinge upon installation.
2. Manufacturers:.
a. Pemko (PE).

2.4 DOOR OPERATING TRIM
A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.
1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
5. Manufacturers:
a. Rockwood (RO).
B. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
6. Manufacturers:
a. Rockwood (RO).

2.5 CYLINDERS AND KEYING
A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Manufacturer’s Standard.
C. Keying System: Each type of lock and cylinders to be factory keyed.
1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. New System: Key locks to a new key system as directed by the Owner.
D. Key Quantity: Provide the following minimum number of keys:
1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).
E. Construction Keying: Provide construction master keyed cylinders.
F. Key Registration List (Bitting List):
1. Provide keying transcript list to Owner's representative in the proper format for importing into key control hardware.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 KEY CONTROL
A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.
1. Manufacturers:
a. Lund Equipment (LU).
b. MMF Industries (MM).
c. Telkee (TK).

2.7 CYLINDRICAL LOCKS AND LATCHING DEVICES
A. Cylindrical Indicator Locksets, Grade 1 (Commercial Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed. Listed manufacturers shall meet all functions and features as specified herein.
1. Provide locksets with functions and features as follows:
a. Visual status indicators in rose, displaying bold visuals for vacant or occupied lock status.
b. Meets ANSI/BHMA A156.41 for single motion egress.
c. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.
d. Three-year limited warranty.
2. Manufacturers:
a. ASSA ABLOY ACCENTRA (YA) - YPL Series.
B. Cylindrical Locksets, Grade 2 (Standard Duty): ANSI/BHMA A156.2, Series 4000, Grade 2 Certified Products Directory (CPD) listed. Locks are to be non-handed and fully field reversible.
1. Provide locksets with functions and features as follows:
a. Meets ANSI/BHMA A156.41 for single motion egress.
b. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.
c. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.
d. Meets Florida Building Code FL2998 and UL Certification Directory ZHEM.R21744 for latching hardware for hurricane requirements.
e. Five-year limited warranty for mechanical functions.

2. Manufacturers:
a. ASSA ABLOY ACCENTRA (YA) - 4600LN Series.
b. Corbin Russwin Hardware (RU) - CL3800 Series.
c. Sargent Manufacturing (SA) - 7 Line.

2.8 STAND ALONE ACCESS CONTROL LOCKING DEVICES
A. Narrow Stile Stand Alone Keypad Trim: Battery powered access control trim for narrow stile door applications. Internal clutch protected locking/unlocking control of the exterior lever handle trim. Field selectable handing with keyed cylinder override access capability.
1. Card reader trim retrofits to Adams Rite MS Series Deadbolts, 4000 Series Deadlatches, and 8000 Series Exit Devices in 31/32" backsets and greater.
2. Keypad trim can accommodate up to 150 users, (including master, supervisor and emergency users) plus two one-time codes and three operational modes (standard, passage, and lockout). Powered by (4) standard "AA" batteries.
3. Manufacturers:
a. Adams Rite Manufacturing (AD) - eForce 3090 Series.

2.9 LOCK AND LATCH STRIKES
A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
B. Standards: Comply with the following:
1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.10 CONVENTIONAL EXIT DEVICES
A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
1. Exit devices shall have a five-year warranty.
2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for “Panic Hardware” according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating “Fire Exit Hardware”. Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer’s catalog and template book for specific requirements.
4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
B. Security Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed rim panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be constructed of high grade, heat treated, corrosion resistant nickel steel alloy, and have a full 3/4" throw projection with slide action positive deadlocking.
1. Static Load Force Resistance: Minimum 3000 lbs. certified independent tested.
2. Manufacturers:
a. ASSA ABLOY ACCENTRA (YA) - 7050 Series.
b. Corbin Russwin Hardware (RU) - ED4000S / ED5000S Series.
c. Approved equal
C. Conventional Push Rail Exit Devices (Commercial Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein. Listed manufacturers shall meet all functions and features as specified herein.
1. Provide locksets with functions and features as follows:
a. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.
b. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.
c. Five-year limited warranty for mechanical features.
2. Manufacturers:
a. ASSA ABLOY ACCENTRA (YA) - 6000 Series.
b. Approved equal.
D. Conventional Push Rail Exit Devices, Aluminum Entrances: ANSI/BHMA A156.3, Grade 1 panic devices furnished in the functions specified in the Hardware Sets. Push bar to be made of extruded aluminum, maximum projection of 3", available in clad or anodized architectural finishes. Exit device design to fit narrow (minimum 2"), medium, or wide stile aluminum door applications.
1. Manufacturers:
a. Adams Rite Manufacturing (AD) - 8000 Series.

2.11 SURFACE DOOR CLOSERS
A. All door closers specified herein shall meet or exceed the following criteria:
1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
B. Door Closers, Surface Mounted (Cam Action): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, high efficiency door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be of the cam and roller design, one piece cast aluminum alloy body with adjustable backcheck and independently controlled valves for closing sweep and latch speed.
1. Manufacturers:
a. Corbin Russwin (RU) - DC5000 Series.
b. Norton Rixson (NO) - 2800ST Series.
c. Sargent Manufacturing (SA) - 422 Series.
C. Door Closers, Surface Mounted (Standard Duty): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, institutional grade door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck, closing sweep, and latch speed control valves. Provide non-handed units standard.
1. Manufacturers:
a. ASSA ABLOY ACCENTRA (YA) - 2700 Series.
b. Corbin Russwin Hardware (RU) - DC3000 Series.
c. Sargent Manufacturing (SA) - 1331 Series.
d. Norton Rixson (NO) - 210 Series

.

2.12 OVERHEAD CONCEALED DOOR CLOSERS
A. Door Closers, Overhead Concealed (Narrow Profile): ANSI/BHMA 156.4 Grade 1 Certified Products Directory (CPD) listed overhead concealed door closers designed for narrow profile frames and doors. Listed manufacturers shall meet all functions and features as specified herein.
1. Provide overhead concealed doors closers with functions and features as follows:
a. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies and A117.1 Accessibility Code.
b. Single acting, offset hung with a cast iron body.
c. Fully concealed body in the frame head and track assembly in the door.
d. Separate and independent valves for closing speed and backcheck adjustments.
e. Five-year limited warranty.
2. Manufacturers:
a. Norton Rixson (RF) - 91DCP Series.

2.13 ARCHITECTURAL TRIM
A. Door Protective Trim
1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer’s catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
a. Stainless Steel: 300 grade, 050-inch thick.
5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
a. Rockwood (RO).

2.14 DOOR STOPS AND HOLDERS
A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
1. Manufacturers:
a. Rockwood (RO).

2.15 ARCHITECTURAL SEALS
A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
F. Manufacturers:
1. Pemko (PE).

2.16 FABRICATION
A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.17 FINISHES
A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION
A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION
A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION
A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL
A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING
A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION
A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
B. Clean adjacent surfaces soiled by door hardware installation.
C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION
A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST.PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE: 5/30/2025
DESIGNED BY: EAC/NP
DRAWN BY: JG/NP
CHECKED BY: EAC/NP/MM

DRAWING TITLE:
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SHEET NO:
G-018

2.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
   1. Quantities listed are for each pair of doors, or for each single door.
   2. The supplier is responsible for handing and sizing all products.
   3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
   4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Manufacturer's Abbreviations:

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1. MK - McKinney
2. PE - Pemko
3. RO - Rockwood
4. YA - ASSA ABLOY ACCENTRA
5. AD - Adams Rite
6. SA - SARGENT
7. RF - Rixson
8. OT - Other

Hardware Sets

Set: 1.0

Doors: 100A
Description: EXT PR - ALUM - CVR EXIT DEVICE

2 Continuous Hinge	DFMXXHD1-M		PE
2 Concealed Vert Rod Exit	8600 36	335	AD
1 Trim	3090-01	121	AD
1 Cylinder	Cylinder as required	BSP	YA
2 Concealed Closer	91N 90N	BSP	RF
2 Door Stop	480	BSP	RO
1 Gasketing	by door / frame mfg		
1 Threshold	2005DT X LAR		PE

Notes: Hardware listed for design criteria, confirm with specific door manufacturer the hardware requirements to meet specified windstorm rating - Provide 3rd party test results for confirmation.

Set: 2.0

Doors: 120B
Description: EXT SGL - HM - RIM PANIC NL

3 Hinge, Full Mortise, Hvy Wt	T4A3386 NRP Size as Required	BSP	MK
1 Fire Rated Rim Exit, Nightlatch	7150FWS AU627F	BSP	YA
1 Cylinder	Cylinder as required	BSP	YA
1 Surface Closer	2731 PA/STOP	BSP	YA
1 Kick Plate	K1050 10" X 2" LDW	US32D	RO

1 Rain Guard	346D X LAR		PE
1 Gasketing	S88BL X LAR		PE
1 Sweep	3452DV X LAR		PE
1 Threshold	2005DT X LAR		PE

Notes:
Hollow Metal: Exterior opening to comply with FBC windstorm requirements, to meet a wind load pressure +/- (70)psf.

Set: 3.0

Doors: 106B
Description: EXT SGL - HM - RIM PANIC NL - EAC

3 Hinge, Full Mortise, Hvy Wt	T4A3386 NRP Size as Required	BSP	MK
1 Fire Rated Rim Exit, Exit Only	7150FWS EO	BSP	YA
1 Exit Device Trim	AU-NTT623-NR	BSP	YA
1 Cylinder	Cylinder as required	BSP	YA
1 Surface Closer	2731 PA/STOP	BSP	YA
1 Kick Plate	K1050 10" X 2" LDW CSK BEV	BSP	RO
1 Rain Guard	346D X LAR		PE
1 Gasketing	S88BL X LAR		PE
1 Sweep	3452DV X LAR		PE
1 Threshold	2005DT X LAR		PE

Notes:
Hollow Metal: Exterior opening to comply with FBC windstorm requirements, to meet a wind load pressure +/- (70)psf.

Set: 4.0

Doors: 110A, 111A, 211A, 212A, 219A, 220A
Description: SGL - TOILET

3 Hinge, Full Mortise	TA2714 Size as Required	BSP	MK
1 Privacy	AU YPL02	BSP	YA
1 Kick Plate	K1050 4" X 2" LDW CSK BEV	BSP	RO
1 Door Stop	409/446 AS REQUIRED	BSP	RO
1 Gasketing	S88BL X LAR		PE

Set: 5.0

Doors: 204B
Description: SGL - LOCK - PASSAGE

3 Hinge, Full Mortise	TA2714 Size as Required	BSP	MK
1 Passage Latch	AU 4601LN	BSP	YA
1 Surface Closer	2701 REG/PA	BSP	YA
1 Door Stop	409/446 AS REQUIRED	BSP	RO
3 Silencer	608		RO

Set: 6.0

Doors: 204A
Description: PR - CLASSROOM LOCK

6 Hinge, Full Mortise	TA2714 Size as Required	BSP	MK
2 Flush Bolt	555	BSP	RO
1 Dust Proof Strike	570	BSP	RO
1 Classroom Lock	AU 4608LN	BSP	YA
1 Surface Closer	2701 REG/PA	BSP	YA
2 Door Stop	409/446 AS REQUIRED	BSP	RO
1 Gasketing	S88BL X LAR		PE

Set: 7.0

Doors: 217A
Description: PR - STOREROOM LOCK

6 Hinge, Full Mortise	TA2714 Size as Required	BSP	MK
2 Flush Bolt	555	BSP	RO
1 Dust Proof Strike	570	BSP	RO
1 Storeroom or Closet Lock	AU 4605LN	BSP	YA
2 Door Stop	409/446 AS REQUIRED	BSP	RO
2 Silencer	608		RO

Set: 8.0

Doors: 118A, 221A
Description: SGL - LOCK - STORAGE

3 Hinge, Full Mortise	TA2714 Size as Required	BSP	MK
1 Storeroom or Closet Lock	AU 4605LN	BSP	YA
1 Surface Closer	2701 REG/PA	BSP	YA
1 Door Stop	409/446 AS REQUIRED	BSP	RO

3 Silencer	608		RO

Set: 9.0

Doors: 108A
Description: SGL - LOCK - STORAGE HW

3 Hinge, Full Mortise, Hvy Wt	T4A3386 NRP Size as Required	BSP	MK
1 Storeroom or Closet Lock	AU 4605LN	BSP	YA
1 Surface Closer	2701 REG/PA	BSP	YA
1 Armor Plate	K1050 36" X 2" LDW CSK BEV	BSP	RO
1 Door Stop	409/446 AS REQUIRED	BSP	RO
3 Silencer	608		RO

Set: 10.0

Doors: 102B
Description: SGL - LOCK - STORAGE - FR

3 Hinge, Full Mortise	TA2714 Size as Required	BSP	MK
1 Storeroom or Closet Lock	AU 4605LN	BSP	YA
1 Surface Closer	2701 REG/PA	BSP	YA
1 Door Stop	409/446 AS REQUIRED	BSP	RO
1 Gasketing	S88BL X LAR		PE

Set: 11.0

Doors: 209A
Description: SGL - LOCK - STORAGE - FR HW

3 Hinge, Full Mortise, Hvy Wt	T4A3386 NRP Size as Required	BSP	MK
1 Storeroom or Closet Lock	AU 4605LN	BSP	YA
1 Surface Closer	2701 REG/PA	BSP	YA
1 Armor Plate	K1050 36" X 2" LDW CSK BEV	BSP	RO
1 Door Stop	409/446 AS REQUIRED	BSP	RO
1 Gasketing	S88BL X LAR		PE

Set: 12.0

Doors: 205A, 213A
Description: SGL - LOCK - CLASSROOM

3 Hinge, Full Mortise	TA2714 Size as Required	BSP	MK
1 Classroom Lock	AU 4608LN	BSP	YA

1 Surface Closer	2701 REG/PA	BSP	YA
1 Door Stop	409/446 AS REQUIRED	BSP	RO
3 Silencer	608		RO

Set: 13.0

Doors: 106C
Description: SGL - LOCK - CLASSROOM - FR

3 Hinge, Full Mortise	TA2714 Size as Required	BSP	MK
1 Classroom Lock	AU 4608LN	BSP	YA
1 Surface Closer	2701 REG/PA	BSP	YA
1 Armor Plate	K1050 36" X 2" LDW CSK BEV	BSP	RO
1 Door Stop	409/446 AS REQUIRED	BSP	RO
1 Gasketing	S88BL X LAR		PE

Set: 14.0

Doors: 104A, 105A, 114A, 115A, 116A, 117A, 214A, 216A, 224A, 225A
Description: SGL - LOCK - OFFICE

3 Hinge, Full Mortise	TA2714 Size as Required	BSP	MK
1 Office Lock	AU 4607LN	BSP	YA
1 Surface Closer	2701 REG/PA	BSP	YA
1 Door Stop	409/446 AS REQUIRED	BSP	RO
3 Silencer	608		RO

Set: 15.0

Doors: 106A, 206A
Description: SGL - EXIT PASSAGE - STAIRS

3 Hinge, Full Mortise	TA2714 Size as Required	BSP	MK
1 Fire Rated Rim Exit, Passage	6100FED AU628F	BSP	YA
1 Surface Closer	422 CTB2	BSP	SA
1 Kick Plate	K1050 10" X 2" LDW CSK BEV	BSP	RO
1 Door Stop	409/446 AS REQUIRED	BSP	RO
1 Gasketing	S88BL X LAR		PE

Set: 16.0

Doors: 120A
Description: OVERHEAD DOORS

1 Cylinder	Cylinder as required	BSP	YA
1 OH HARDWARE	by door mfg		OT

Set: 17.0

Doors: 204C, 215A
Description: BARN SLIDER - P/P

2 Sliding System	DSG-FT-06BSP/6		PE
4 Flush Pull	94C	BSP	RO

END OF SECTION 087100

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No.	Date	Revision

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DRAWN BY: JG/NP
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SECTION 09 21 16
GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Gypsum wallboard.
B. Cementitious backing board.
C. Resilient furring channels for sound isolation.
D. Joint treatment and accessories.
E. Textured finish.

1.2 REFERENCE STANDARDS
A. ANSI A108.11 - American National Standard for Interior Installation of Cementitious Backer Units; 2011.
B. ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 2011.
C. ASTM C475/C475M - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2002 (Reapproved 2007).
D. ASTM C645 - Standard Specification for Nonstructural Steel Framing Members ; 2011a.
E. ASTM C754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products ; 2011.
F. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2011.
G. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2008.
H. ASTM C1280 - Standard Specification for Application of Gypsum Sheathing; 2012.
I. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2011.
J. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements ; 2009.
K. ASTM E413 - Classification for Rating Sound Insulation ; 2010.
L. GA-216 - Application and Finishing of Gypsum Board; Gypsum Association ; 2010.
M. GA-600 - Fire Resistance Design Manual; Gypsum Association ; 2009.
N. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc. ; current edition.

1.3 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Shop Drawings: Indicate special details associated with fireproofing and acoustic seals.
C. Product Data: Provide data on metal framing, gypsum board, accessories, and joint finishing system.

PART 2 PRODUCTS

2.1 GYPSUM BOARD ASSEMBLIES
A. Provide completed assemblies complying with ASTM C840 and GA-216.
B. Interior Tenant Separation Partitions Indicated as Acoustic: Provide completed assemblies with the following characteristics:
1. Acoustic Attenuation: STC of 50 or greater calculated in accordance with Florida Building Code and ASTM E413, based on tests conducted in accordance with ASTM E90.
C. Fire Rated Assemblies: Provide completed assemblies as indicated on drawings and complying with applicable code.
1. UL Assembly Numbers: Provide construction equivalent to that listed for the particular assembly in the current UL Fire Resistance Directory.

2.2 BOARD MATERIALS
A. Manufacturers - Gypsum-Based Board:
1. National Gypsum Company : www.nationalgypsum.com.
2. USG Corporation : www.usg.com
3. Georgia-Pacific Gypsum : www.gpgypsum.com.
4. Substitutions: See Section 01 60 00 - Product Requirements.
B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces, unless otherwise indicated.
2. At Assemblies Indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
3. Thickness:
a. Vertical Surfaces: 5/8 inch (16 mm).
b. Ceilings: 5/8 inch (16 mm).
c. Backing Board for Wet Areas: One of the following products:
4. Application: Surfaces behind tile in wet areas including tub and shower surrounds, shower ceilings, and as noted on drawings.
5. ANSI Cement-Based Board: Non-gypsum-based; aggregated Portland cement panels with glass fiber mesh embedded in front and back surfaces complying with ANSI A118.9 or ASTM C1325.
a. Thickness: 5\8 inch (12.7 mm).
6. At Assemblies Indicated as Non-combustible: Use JamesHardie; HardieBacker 500 Cement Board, 1/2" thickness. Install per manufacturer's recommendations. Refer to drawings for locations.
7. Products:
a. JamesHardie; HardieBacker 500 Cement Board.
b. National Gypsum Company; PermaBASE Brand Cement Board.
c. USG Corporation; Durock Brand Cement Board.
d. Substitutions: See Section 01 60 00 - Product Requirements.
D. Moisture-Resistant Gypsum Board For Non-Wet Areas: Water-resistant gypsum backing board as defined in ASTM C1396/C1396M; sizes to minimum joints in place; ends square cut.
1. Application: Bathrooms and other damp areas.
2. Regular Board Thickness: 5/8 inch (16 mm).
3. Products:
a. National Gypsum Company; Gold Bond XP Mold & Moisture Resistant
b. USG Corporation; Sheetrock Brand Mold Tough Gypsum Panels.
c. Georgia-Pacific Gypsum; ToughRock Mold-Guard Gypsum Board ("Greenboard").
d. Substitutions: See Section 01 60 00 - Product Requirements.

2.3 ACCESSORIES
A. Resilient Channels: 25-gauge steel; 2" x 1/2" deep; single leg; conforming to ASTM C645.
1. Products:
a. RC-1 Pro Resilient Channel, ClarkDietrich Building Systems; www.clarkdietrich.com.
b. Substitutions: See Section 01 60 00 - Product Requirements.
c. Joint Materials: ASTM C475 and as recommended by gypsum board manufacturer for project conditions.
2. Tape: 2 inch (50 mm) wide, coated glass fiber tape for joints and corners , except as otherwise indicated.
3. Ready-mixed vinyl-based joint compound.
B. Textured Finish Materials: Latex-based compound; plain.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify that project conditions are appropriate for work of this section to commence.

3.2 FRAMING INSTALLATION
A. Furring for Fire Ratings: Install as required for fire resistance ratings indicated and to GA-600 requirements.
B. Blocking: Install wood blocking for support of:
1. Framed openings.
2. Wall mounted cabinets.
3. Plumbing fixtures.
4. Toilet partitions.
5. Toilet accessories.
6. Wall mounted door hardware.

3.3 BOARD INSTALLATION
A. Comply with ASTM C 840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.
B. Fire-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.
C. Cementitious Backing Board: Install over framing members and plywood substrate where indicated, in accordance with ANSI A108.11 and manufacturer's instructions.
D. Moisture Protection: Treat cut edges and holes in moisture resistant gypsum board and exterior gypsum soffit board with sealant.

3.4 JOINT TREATMENT
A. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
1. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
2. Level 1: Fire rated wall areas above finished ceilings, whether or not accessible in the completed construction.
B. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
1. Feather coats of joint compound so that camber is maximum 1/32 inch (0.8 mm).

3.5 TEXTURE FINISH
A. Apply finish texture coating by means of spraying apparatus in accordance with manufacturer's instructions and match to approved sample.

END OF SECTION

SECTION 09 24 00
PORTLAND CEMENT STUCCO

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Portland cement plaster for installation over metal lath, masonry, concrete, and solid surfaces.

1.2 REFERENCE SANDARDS
A. ASTM C91/C91M - Standard Specification for Masonry Cement; 2012.
B. ASTM C150/C150M - Standard Specification for Portland Cement; 2012.
C. ASTM C926 - Standard Specification for Application of Portland Cement-Based Plaster; 2012a.
D. ASTM C932 - Standard Specification for Surface-Applied Bonding Compounds for Exterior Plastering; 2006.
E. ASTM E330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
F. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
G. PCA EB049 - Portland Cement Plaster/Stucco Manual; Portland Cement Association; 2003.

1.3 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittals procedures.
B. Product Data: Provide data on plaster materials, characteristics and limitations of products specified.

1.4 QUALITY ASSURANCE
A. Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience.
B. Copies of Documents at Project Site: Maintain at the project site a copy of each referenced document that prescribes execution requirements.

1.5 MOCK-UP
A. Locate where directed.
B. Mock-up may remain as part of the Work.

1.6 FIELD CONDITONS
A. Do not apply plaster when substrate or ambient air temperature is under 50 degrees F (10 degrees C) or over 80 degrees F (27 degrees C).
B. Maintain minimum ambient temperature of 50 degrees F (10 degrees C) during installation of plaster and until cured.

PART 2 PRODUCTS

2.1 PORTLAND CEMENT PLASTER ASSEMBLIES
A. Exterior Stucco: Portland cement plaster system, made of finish, brown, and scratch coat, and reinforcing mesh (if applicable).
1. Products:
a. Parex USA Inc: Armourwall 300 WaterMaster Krak-Shield: www.parexusa.com.
b. Substitutions: See Section 01 60 00 - Product Requirements.
1. QUIKRETE - https://www.quikrete.com/
2. MAPEI - https://www.mapei.com/

2.2 PLASTER MATERIALS
A. Portland Cement, Aggregates, and Other Materials: In accordance with ASTM C926.
B. Aggregate: Natural sand, within the following sieve sizes and percentage retained limits; in accordance with ASTM C926.
C. Water: Clean, fresh, potable and free of mineral or organic matter that could adversely affect plaster.
D. Color(s): As selected from manufacturer's full line.

2.3 PLASTIC LATH
A. Plastic Lath and Accessories: Use plastic lath as plaster base at all substrates other than concrete masonry or concrete.

2.4 PLASTER MIXES
A. Over Solid Bases: Two-coat application, mixed and proportioned in accordance with manufacturer's instructions.
B. Over Metal Lath: Three-coat application, mixed and proportioned in accordance with manufacturer's instructions.
C. Premixed Plaster Materials: Mix in accordance with manufacturer's instructions.
D. Mix only as much plaster as can be used prior to initial set.
E. Add color pigments to finish coat in accordance with manufacturer's instructions.
F. Mix materials dry, to uniform color and consistency, before adding water.
G. Protect mixtures from freezing, frost, contamination, and excessive evaporation.
H. Do not re-temper mixes after initial set has occurred.

2.5 ACCESSORIES
A. Products:
1. Install paintable trims and mouldings as required including reveals, corner keys, drip screeds, weep screeds, control and expansion joints, and J moldings.
2. Sizes: As specified on the drawings.
3. Manufacturers:
a. Fry Reglet Corporation; www.fryreglet.com
b. ClarkDietrich; HYPERLINK "http://www.clarkdietrich.com"www.clarkdietrich.com
c. Substitutions: See Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify the suitability of existing conditions before starting work.
B. Masonry: Verify joints are cut flush and surface is ready to receive work of this section. Verify no paint, bituminous, or water repellent coatings exist on masonry surface.
C. Concrete: Verify surfaces are flat, honeycomb are filled flush, and surfaces are ready to receive work of this section. Verify no bituminous, water repellent, or form release agents exist on concrete surface that are detrimental to plaster bond.
D. Lath and Accessories: Verify lath is flat, secured to substrate, and joint and surface perimeter accessories are in place.

3.2 PREPARATION
A. Dampen masonry surfaces to reduce excessive suction.
B. Clean concrete surfaces of foreign matter. Clean surfaces using acid solutions, solvents or detergents. Wash surfaces with clean water.
C. Roughen smooth concrete surfaces and apply bonding agent in accordance with manufacturer's instructions.

3.3 PLASTERING
A. Apply premixed plaster in accordance with manufacturer's instructions.
B. Apply plaster in accordance with ASTM C926.
C. Two-Coat Application:
1. Apply first coat to nominal thickness of 3/8 inch (9 mm).
2. Apply finish coat to nominal thickness of 1/8 inch (3mm).
D. Three-Coat Application Over Lath:
1. Apply first coat to nominal thickness of 3/8 inch (9 mm).
2. Apply second coat to nominal thickness of 3/8 inch (9 mm).
3. Apply finish coat to a nominal thickness of 1/8 inch (3 mm).
E. Moist cure base coats.
F. Apply second coat immediately following initial set of first coat.
G. After curing, dampen previous coat prior to applying finish coat.
H. Finish Texture: Float to a consistent and smooth finish.
I. Avoid excessive working of surface. Delay troweling as long as possible to avoid drawing excess fines to surface.
J. Moist cure finish coat for minimum period of 48 hours.

3.4 TOLERANCES
A. Maximum Variation from True Flatness: 1/8 inch in 10 feet (3 mm in 3m).

END OF SECTION

SECTION 09 30 00
TILE

PART 1 GENERAL
1.1 SECTION INCLUDES
A. Ceramic tile, trim, and accessories.

1.2 REFERENCE STANDARDS
A. ANSI A108 Series/A118 Series/A136.1 - American National Standard Specifications for the Installation of Ceramic Tile (Compendium) ; 2011.
B. ANSI A108.11 - American National Standard for Interior Installation of Cementitious Backer Units; 2011.
C. ANSI A118.4 - American National Standard Specifications for Latex-Portland Cement Mortar; 2011.
D. ANSI A136.1 - American National Standard for Organic Adhesives for Installation of Ceramic Tile; 2011.
E. ANSI A137.1 - American National Standard Specifications for Ceramic Tile; 2008.
F. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation; 2011.

1.3 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.
C. Shop Drawings: Indicate tile layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, control and expansion joints, thresholds, ceramic accessories, and setting details.
D. Maintenance Materials: Furnish extra material for Owner's use in maintenance of project.
1. See Section 01 60 00 - Product Requirements, for additional provisions..

1.4 QUALITY ASSURANCE
A. Maintain one copy of The Tile Council of North America Handbook and ANSI A108 Series/A118 Series on site.
B. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, with minimum 5 years of documented experience.
C. Installer Qualifications: Company specializing in performing tile installation, with minimum of 5 years of documented experience.

1.5 MOCK-UP
A. See Section 01 40 00 - Quality Requirements, for general requirements for mock-up.
B. Construct tile mock-up, incorporating all components specified for the location.
1. Approved mock-up may remain as part of the Work.

1.6 DELIVERY, STORAGE AND HANDLING
A. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions.

1.7 FIELD CONDITIONS
A. Do not install solvent-based products in an unventilated environment.
B. Maintain ambient and substrate temperature of 50 degrees F (10 degrees C) during installation of mortar materials

PART 2 PRODUCTS

2.1 TILE
A. Manufacturers: All products by the same manufacturer.
1. Dal-Tile Corporation: www.daltile.com.
2. Substitutions: See Section 01 60 00 - Product Requirements.
A. American Olean: www.americanolean.com
B. Crossville inc: www.crossvilleinc.com

2.2 TRIM AND ACCESSORIES
A. Ceramic Trim: Matching bullnose and cove base ceramic shapes in sizes coordinated with field tile.
1. Applications: Use in the following locations:
a. Open Edges: Bullnose.
b. Inside Corners: Jointed.
c. Floor to Wall Joints: Cove base.
2. Manufacturer: Same as for tile.
B. Provide flooring transitions compatible with selected flooring as required. Refer to drawings.

2.3 SETTING MATERIAL
A. Latex-Portland Cement Mortar Bond Coat: ANSI A118.4.
1. Application(s): Use this type of bond coat where indicated and where no other type of bond coat is indicated.
2. Products:
a. Laticrete; Laticrete Tri-Lite Mortar: www.laticrete.com
b Merkrete, by Parex USA, Inc; Merkrete 720 Dustless LHT Mortar: www.merkrete.com
c. Custom Building Products, by The Quikrete Companies; VersaBond: www.custombuildingproducts.com
B. Latex Adhesive: ANSI A136.1, thin set mastic type, water resistant.
1. Use Type I in areas subject to prolonged moisture exposure.
2. Products:
a. Laticrete: www.laticrete.com
b Merkrete, by Parex USA, Inc: www.merkrete.com
c. Custom Building Products, by The Quikrete Companies: www.custombuildingproducts.com

2.4 GROUTS
A. Polymer Modified Grout: ANSI A118.7 polymer modified cement grout.
B. Applications: Use this type of grout where indicated and where no other type of grout is indicated.
C. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.
D. Color(s): As selected by Architect from manufacturer's full line.
E. Products:
1. Laticrete; SPECTRALOCK® PRO Premium Grout: www.laticrete.com
2. Merkrete, by Parex USA, Inc; Pro Epoxy: www.merkrete.com
3. Custom Building Products, by The Quikrete Companies: Fusion Pro® Single Component® Grout www.custombuildingproducts.com

2.5 THIN-SET ACCESSORY
A. Waterproofing Membrane at Floors: Specifically designed for bonding to cementitious substrate under thick mortar bed or thin-set tile; complying with ANSI A118.10.
B. Type: Fluid-applied.
C. Thickness: 40 mils (1 mm), minimum, dry film thickness.
D. Products:
a. Custom Building Products; RedGard: www.custombuildingproducts.com
b. No substitutions may be made.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile.
B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust free, and are ready to receive tile.
C. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of setting materials to sub-floor surfaces.
D. Verify that concrete sub-floor surfaces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by tile manufacturer and setting materials manufacturer.
E. Verify that required floor-mounted utilities are in correct location.

3.2 PREPARATION
A. Protect surrounding work from damage.
B. Vacuum clean surfaces and damp clean.
C. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.
D. Install backer board in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners cover with skim coat of setting material to a feather edge.
E. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

3.3 INSTALLATION
A. Install tile and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and The Tile Council of North America Handbook recommendations.
B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.
C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout.
E. Form internal angles square and external angles bullnosed.
F. Install ceramic accessories rigidly in prepared openings.
G. Install non-ceramic trim in accordance with manufacturer's instructions.
H. Sound tile after setting. Replace hollow sounding units.
I. Keep expansion joints free of adhesive or grout. Apply sealant to joints.
J. Prior to grouting, allow installation to completely cure; minimum of 48 hours.
K. Grout tile joints. Use standard grout unless otherwise indicated.
L. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

3.4 CLEANING
A. Clean tile and grout surfaces.

3.5 PROTECTION
A. Do not permit traffic over finished floor surface for 4 days after installation.

END OF SECTION

SECTION 09 51 23
ACOUSTICAL TILE CEILINGS

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Acoustical Units
B. Suspension System(s)
C. Accessories

1.2 REFERENCE STANDARDS
A. ASTM C635 - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings ; 2007.
B. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels ; 2008.
C. ASTM E580/E580M - Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions ; 2011.
D. ASTM E1264 - Standard Classification for Acoustical Ceiling Products ; 2008e1.
E. NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth ; 2011.
F. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc. ; current edition.

1.3 ACTION SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
B. Shop Drawings: Indicate grid layout and related dimensioning.
C. Product Data: For each type of product.
D. Manufacturer's Installation Instructions: Indicate special procedures.
E. Samples: Minimum 6 inch x 6 inch samples of specified acoustical panels; 8 inch long samples of suspension system, including main runner and 4 foot cross tees.

1.4 INFORMATION SUBMITTALS
A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
1. Ceiling suspension-system members.
2. Structural members to which suspension systems will be attached.
3. Method of attaching hangers to building structure.
4. Furnish layouts for cast-in-place anchors, clips, and other ceiling attachment devices whose installation is specified in other Sections.
5. Carrying channels or other supplemental support for hanger-wire attachment where conditions do not permit installation of hanger wires at required spacing.
6. Size and location of initial access modules for acoustical tile.
7. Items penetrating finished ceiling and ceiling-mounted items including the following:
a. Lighting fixtures.
b. Diffusers.
c. Grilles.
d. Speakers.
e. Sprinklers.
f. Access panels.
g. Perimeter moldings.
8. Show operation of hinged and sliding components adjacent to acoustical tiles.
9. Minimum Drawing Scale: 1/4 inch = 1 foot (1:48)
B. Qualification Data: For testing agency.
C. Product Test Reports: For each acoustical tile ceiling, for tests performed by manufacturer and witnessed by a qualified testing agency.
D. Evaluation Reports: For each acoustical tile ceiling suspension system and anchor and fastener type, from ICC-ES.
E. Field quality-control reports.

1.5 CLOSEOUT SUBMITTALS
A. Maintenance Data: For finishes to include in maintenance manuals. MAINTENANCE MATERIAL SUBMITTALS
B. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Acoustical Ceiling Units: Full-size tiles equal to 2 percent of quantity installed.
2. Suspension-System Components: Quantity of each concealed grid and exposed component equal to 2 percent of quantity installed.

1.6 QUALITY ASSURANCE
A. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
B. Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

1.7 DELIVERY, STORAGE AND HANDLING
A. Deliver acoustical tiles, suspension-system components, and accessories to Project site and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
B. Before installing acoustical tiles, permit them to reach room temperature and a stabilized moisture content.

1.8 FIELD CONDITIONS
A. Maintain uniform temperature of minimum 60 degrees F (16 degrees C), and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

PART 2 PRODUCTS

2.1 ACOUSTICAL UNITS
A. Acoustical Units - General: ASTM E1264, Class A.
B. Acoustical Lay-in Ceiling Panels: Painted mineral fiber, ASTM E1264.
1. ACT-1
a. Size: 24 x 24 x 3/4 inches
b. Panel Edge: Square.
c. Color: White.
d. Noise Reduction Coefficient (NRC): ASTM C423; Classified with UL label on product carton 0.75.
e. Ceiling Attenuation Class (CAC): ASTM C1414 Classified with UL label on product carton 35.
f. Sabin: N/A.
g. Articulation Class (AC): N/A
h. Flame Spread: ASTM E1264' Class A (UL).
i. Light Reflectance (LR) White Panel: ASTM E1477; 0.88.
j. Dimensional Stability: Standard.
k. Recycle Content: Post-Consumer: 0%, Pre-Consumer: 71.80%
l. Product: Armstrong 1910 - Ultima 24 inch x 24 inch x 3/4 inch Acoustic Ceiling Tile
m. Refer to Room Finish Schedule for location
2. ACT-2
a. Size: 24 inch x 48 inch x 7/8 inch
b. Panel Edge: Square.
c. Color: White.
d. Noise Reduction Coefficient (NRC): ASTM C423; Classified with UL label on product carton 0.80.
e. Ceiling Attenuation Class (CAC): ASTM C1414 Classified with UL label on product carton 35.
f. Sabin: N/A.
g. Articulation Class (AC): N/A
h. Flame Spread: ASTM E1264' Class A (UL).
i. Light Reflectance (LR) White Panel: ASTM E1477; 0.87.
j. Dimensional Stability: Standard.
k. Recycle Content: Post-Consumer: 0%, Pre-Consumer: 71.80%
l. Product: Armstrong 1943 - Ultima High NRC 24 inch x 48 inch x 7/8 inch Acoustic CeilingTile
m. Refer to Room Finish Schedule for location
3. ACT-3
a. Size: 24 inch x 24 inch x 3/4 inch
b. Panel Edge: Square.
c. Color: Black.
d. Noise Reduction Coefficient (NRC): ASTM C423; Classified with UL label on product carton 0.70.
e. Ceiling Attenuation Class (CAC): ASTM C1414 Classified with UL label on product carton 35.
f. Sabin: N/A.
g. Articulation Class (AC): N/A
h. Flame Spread: ASTM E1264' Class A (UL).
i. Light Reflectance (LR) White Panel: ASTM E1477; N/A.
j. Dimensional Stability: Standard.
k. Recycle Content: Post-Consumer: 0%, Pre-Consumer: 71.80%
l. Product: Armstrong 1713 - Fine Fissured 24 inch x 24 inch x 3/4 inch Acoustic Ceiling Tile
m. Refer to Room Finish Schedule for location
4. ACT-4
a. Size: 24 inch x 24 inch x 5/8 inch
b. Panel Edge: Square.
c. Color: Black.
d. Noise Reduction Coefficient (NRC): N/A.
e. Ceiling Attenuation Class (CAC): ASTM C1414 Classified with UL label on product carton 40.
f. Sabin: N/A.
g. Articulation Class (AC): N/A
h. Flame Spread: ASTM E1264' Class A (UL).
i. Light Reflectance (LR) White Panel: ASTM E1477; 0.80.
j. Dimensional Stability: Standard.
k. Recycle Content: Post-Consumer: 0%, Pre-Consumer: 71.80%
l. Product: Armstrong 868 - Clean Room VL 24 inch by 24 inch x 5/8 inch Ceiling Tile
m. Refer to Room Finish Schedule for location

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DATE:
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No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG/NP
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ARCHITECTURAL SPECIFICATIONS

SHEET NO:
G-020

SECTION 09 51 23
ACOUSTICAL TILE CEILINGS, CONT'D

C. Substitutions
1. ACT-1
a. USG 86185 Mars 24 inch x 24 inch x 3/4 inch Acoustic Ceiling Tile; www.usg.com
b. Rockfon 1100 Koral 24 inch x 24 inch x 5/8" Acoustic Ceiling Tile; www.rockfon.com
2. ACT-2
a. USG 86300 Mars High-NRC/High-CAC 24 inch x 48 inch x 7/8 inch Acoustic Ceiling Tile; www.usg.com
b. Rockfon 1101 Koral 24 inch x 48 inch x 5/8 inch Acoustic Ceiling Tile; www.rockfon.com
3. ACT-3
a. USG 7054G Premier Hi-Lite Kapok Panels, Perforated 24 inch x 24 inch x 5/8 inch Acoustic Ceiling Tile in Flat Black; www.usg.com
b. Rockfon 11100 Color All 24 inch x 24 inch x 5/8 inch Acoustic Ceiling Tile in Charcoal; www.rockfon.com
4. See Section 01 60 00 - Product Requirements

2.2 METAL SUSPENSION SYSTEM
A. Manufacturers:
1. Same as for acoustical units.
2. Substitutions: See Section 01 60 00 – Product Requirements.
B. Suspension System – General: ASTM C635; die cut and interlocking components with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required.
C. Exposed Suspension System: Intermediate duty
1. Profile:
2. Finish: Flat White to match white acoustic ceiling tile, Flat Black to match acoustic ceiling tile. Refer to Room Finish Schedule
3. Armstrong Prelude XL, 15/16" Exposed Grid Tee System Hot-dipped Galvazied Steel
D. Substitutions:
1. USG Donn Brand DX; www.usg.com
2. Rockfon; www.rockfon.com
3. See Section 01 60 00 - Product Requirements

2.3 ACCESSORIES
A. Support Channels and Hangers: Galvanized steel; size and type to suit application and ceiling system flatness requirement specified.
B. Perimeter Moldings: Same material and finish as grid.
1. At Exposed Grid: Provide L-shaped molding for mounting at same elevation as face of grid.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify existing conditions before starting work.
B. Verify that layout of hangers will not interfere with other work.

3.2 INSTALLATION – SUSPENSION SYSTEM
A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, manufacturer's instructions, and as supplemented in this section.
B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
C. Install after major above-ceiling work is completed. Coordinate the location of hangers with other work.
D. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
E. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
F. Do not support the components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
G. Support fixture loads using supplementary hangers located within 6 inches (150 mm) of each corner, or support components independently.
H. Do not eccentrically load system or induce rotation of runners.
I. Perimeter molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
1. Use longest practical lengths
2. Overlap and rivet corners.

3.3 INSTALLATION - ACOUSTICAL UNITS
A. Install acoustical units accordance with manufacturer's written instructions.
B. Fit all acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
C. Fit border trim neatly against abutting surfaces.
D. Install units after above-ceiling work is completed.
E. Install acoustical units level, in uniform place, and free from twist, warp, and dents.
F. Cutting Acoustical Units:
1. Make field cut edges of same profile as factory edges.
G. Install hold-down clips on each panel to retain panels tight to grid system; comply with fire rating requirements.
H. Install lay-in panels at following minimum distance from conventional light sources: As required by light fixture installation specification or recomendations.
I. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical tiles.
1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
2. Screw-attach moldings to substrate at intervals not more than 16 inches (400 mm) o.c. and not more than 3 inches (75 mm) from ends. Miter corners accurately and connect securely.
3. Do not use exposed fasteners, including pop rivets, on moldings and trim.
J. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
K. Arrange directionally patterned acoustical tiles as follows:
1. As indicated on reflected ceiling plans.

3.4 TOLERANCES
A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet (3mm in 3m).
B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.

3.5 ADJUSTING
A. Clean exposed surfaces of acoustical tile ceilings, including trim and edge moldings. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.
B. Remove and replace tiles and other ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

SECTION 09 65 19
RESILIENT TILE FLOORING
PART 1 – GENERAL

1.1 RELATED DOCUMENTS
A. Division 01 Specification Sections

1.2 SUMMARY
A. Section includes:
1. Luxury vinyl flooring
2. Installation Accessories

1.3 REFERENCE STANDARDS
A. ASTM F710-22 – Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
B. ASTM F3261-20 – Standard Specification for Resilient Flooring in Modular Format with Rigid Polymeric Core

1.4 SUBMITTALS
A. Product Specification/Data: For each type of product.
B. Specification for Adhesive
C. Floor Layouts
1. Include floor tile layouts, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts
D. Samples: Full-size units of each color, texture, and pattern of floor tile required.
1. Manufacturer's standard-size Samples, but not less than minimum 9 inches (230mm) long, of each color required.
E. Schedule
F. Qualifications for Installer

1.5 CLOSEOUT SUBMITTALS
A. Installation Instructions
B. Maintenance Instructions: For each type of floor tile to include in maintenance manuals.
C. Warranty
1. Manufacturer warrants its resilient products under a 15 Year Commercial Limited Warranty when used in the proper fit for use indoor commercial applications. Resilient flooring must be installed and maintained in accordance with the manufacturer's installation and maintenance guidelines.
2. Manufacturer warrants its adhesive bond to the product and the floor under a 15 Year Commercial Underbed Bond Warranty when installed with Shaw 4200 or S150 adhesives.
a. Contact manufacturer for products that come with underbed warranty coverage.

1.6 MAINTENANCE MATERIALS
A. Furnish extra materials, from same product run, that match products installed and that are packages with protective covering for storage and identified with labels describing contents
1. Floor Tile: Furnish one (1) box for every fifty (50) boxes or fraction thereof, of each type, color, and pattern of floor tile installed or 10% in addition to the total required square footage for Owner.

1.7 QUALITY ASSURANCE
A. Environmental:
1. Health Product Declaration (HPD) – 1000 ppm disclosure
2. Environmental Product Declaration (EPD) - Product Specific
3. FloorScore® Certified
4. Embodied Carbon (A1-A3): kg CO2/m²
5. Fully Recyclable
B. Installer Qualifications: An entity that employe installers and supervisors who are competent in techniques required by manufacturer for floor tile installation and seaming method indicated.
1. Engage an installer who employs workers for this Project who are trained or certified by floor tile manufacturer for installation techniques required.
C. Mockups: Build mock-ups to verify selections made under Submittals, Samples, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
1. Coordinate mock-ups in this Section with mock-ups specified in other Sections.
a. Install minimum 100 sf for each type, color, and pattern at designated locations indicated on plans for architect and Owner review and approval.
2. Approval of mock-ups does not constitute approval of deviations from the Contract Documents contained in mock-ups unless Architect specifically approves such deviations in writing.
3. Subject to compliance with requirements, approved mock-ups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 MATERIAL STORAGE AND HANDLING
A. Store cartons of tile or plank products flat and squarely on top of one another. Preferably, locate material in the "center" of the installation area (i.e. away from vents, direct sunlight, etc.)
B. Flooring material and adhesive must be acclimated to the installation area for at least 48 hours before installation.
C. When palletizing on a jobsite vinyl plank or tiles need to be stacked 2 rows high side by side with no airspace between. Then quarter turned for 2 rows side by side, not to exceed 12 boxes high. A 5/8" or thicker plywood must also be placed on the pallet first.
D. Do not stack pallet's 2 high unless utilizing a 1" thick plywood in between pallets.

1.9 SITE CONDITIONS
A. HVAC System must be operational for 7 days prior to, during and after installation.
B. Temperature must be between 65° F and 85° F.
C. Material and adhesive must be acclimated to the installation area for a minimum of 48 hours prior to installation. Unless otherwise approved by manufacturer.
D. Close spaces to traffic during floor tile installation.
E. Close spaced to traffic for 48 hours after floor tile installation
F. Install floor tile after other finishing operations, including painting, have been completed.

PART 2 – PRODUCTS

2.1 TESTING REQUIREMENTS
A. Slip Resistance ASTM D2047: ADA Compliant
B. Static Load Limit ASTM F970: Passes, Modified 1250 psi
C. Flexibility ASTM F137: Passes
D. Resistance to Heat ASTM F1514: Passes
E. Resistance to Light ASTM F1515: Passes
F. Resistance to Chemicals ASTM F925: Passes
G. Radiant Flux ASTM E648: Class I
H. Smoke Density ASTM E662: Passes, <450

2.2 RESILIENT TILE
A. Manufacturer: Shaw Contract
1. Product: Branching Out 5.0 mm Acoustic, 4480V
a. Construction: Heavy Commercial Luxury Vinyl Tile With Fiberglass
b. Class ASTM F1700: Class III, Type B
c. Finish: ExoGuard ®
d. Nominal Dimensions: 6 in x 48 in l 15 cm w x 122 cm
e. Wear-layer Thickness: 20 Mil (0.02 in) | 0.51 mm
f. Overall Thickness: 0.197 in | 5 mm
g. Edge Profile: Squared Edge
h. Installation Type: Dry Back
2. Product: Terrace 5.0 mm, 4216V
a. Construction: Heavy Commercial Luxury Vinyl Tile
b. Class ASTM F1700: Class III, Type B
c. Finish: ExoGuard+ ®
d. Nominal Dimensions: 12 in x 24 in l 30 cm w x 60 cm
e. Wear-layer Thickness: 20 Mil (0.02 in) | 0.51 mm
f. Overall Thickness:0.197 in | 5 mm
g. Edge Profile: Squared Edge
h. Installation Type: Direct Glue
B. Substitutions:
1. Tarkett USA, Inc., www.commercial.tarkett.com
2. Mannington Mills, www.manningtoncommercial.com
3. Substitutions: See Section 01 60 00 – Product Requirements

2.3 INSTALLATION MATERIALS
A. High Moisture Management Solutions (10 Year Warranty)
1. **Concrete with %RH >/= 99%, MVER </=12, pH </= 12**
a. Apply Shaw Surface Prep EXT followed by Shaw Moisture Shield.
b. Apply USG Advanced skim coat as necessary for patch/skim coat.
c. Install flooring with Shaw 4151* adhesive.
2. **Concrete with %RH >/= 99%, MVER </= 17, pH> 12**
a. Apply Surface Prep
b. Apply Shaw Moisture Shield.
c. Apply BC9000
d. Apply USG Advanced Skim Coat as necessary for patch/skim coat.
e. Install flooring with Shaw 4151* adhesive
3. **Concrete with %RH >/= 99%, MVER >17, pH> 12**
a. Apply Shaw Surface Prep EXT followed by Shaw MoistureTek.
b. Apply USG Advanced skim coat as necessary for patch/skim coat.
c. Install flooring with Shaw 4151* adhesive.
B. Adhesives:
1. 4200 Resilient (LokWorx+): 99% RH 5-12 pH 12 lbs.
2. 2200 Resilient (LokWorx): 95% RH 5-12 pH 10 lbs.
3. Shaw S-150 Spray: 95% RH 7-11 pH NTR
4. 4151 Multi-Use Adhesive: 99% RH 12 pH 12 lbs.
5. 4252 Multi-Use PSA Adhesive: 99% RH 5-12 pH 12 lbs.
6. Refer to manufacturers adhesive guide for proper usage
C. Primer (if needed):
1. Shaw 9050
a. For dusting / powdering / porous concrete / lightweight concrete prime with a latex primer such as 9050.
b. For patches / levelers prime with a latex primer such as 9050.
D. Leveling and Patching Compounds:
1. Use cementitious patching and leveling compounds that meet or exceed Shaw's maximum moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.
2. For cracks or saw cuts deeper than 1", follow the preparation and application instructions for QuikFill.
E. Transitions and Wall Base (FinishWorx)
1. Transitions
a. Micro-Transition
b. TrimMaster
c. Universal Rubber Transition
d. The Wedge Subfloor Leveler
2. Wall Base Accessories:
a. Cove Wall Base
1. Vinyl
2. See Specifications

PART 3 – EXECUTION

3.1 EXAMINATION
A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content, pH, smoothness and level.

3.2 PREPARATION
A. All substrates to receive moisture sensitive floor covering require proper moisture testing.
1. CaCl/MVER (ASTM 1869): Results must not exceed 8 lbs.
2. RH (ASTM F-2170): Results must not exceed 90%.
3. pH / Alkalinity (ASTM F-3441): Results must be between 7-10.
4. If the subfloor exceeds these values, moisture mitigation should be performed. Reference Section 11a. or contact the manufacturer rep.
B. Perform Bond testing to determine compatibility of adhesive to the substrate.
C. Substrates must be structurally sound, clean, flat and dry.
D. Substrates must be free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, adhesives, loosely bonded toppings, loose particles and any other substance or condition that may prevent or reduce adhesion.
E. Substrates must be flat and smooth within ¼" in 6 feet or 3/16" in 10 feet.
F. Flooring considerations:
1. Ceramic Tile, Poured Floors
a. Must be totally cured and well bonded to the concrete and free of any residual solvents and petroleum derivatives.
b. Waxes, polishes, grease, grime, and oil must be removed.
c. Show no signs of moisture or alkalinity.
d. Cuts, cracks, gouges, dents, and other irregularities in the existing floor covering must be repaired or replaced.
e. Fill any low spots, holes, chips and seams that may telegraph through the new flooring.
f. Grind any highly polished or irregular/smooth surfaces.

3.3 LAYOUT AND INSTALLATION
A. Layout
1. Install using conventional tile and plank installation techniques.
2. Carefully determine where to begin tile or plank installation.
3. It is customary to center rooms and hallways, so borders are not less than half a tile or plank.
a. Lay tiles in pattern indicated on Architectural Flooring Finish Plans and/or Room Finish Schedule
B. Installation
1. Flooring should have a minimum of 6 – 8" seam stagger.
2. Make sure cut edges are always against the wall.
3. To properly cut the flooring, score the top side of the material with a utility knife. Bend the product and finish the cut through the backside. This will ensure the cleanest cut.
4. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.
a. Lay tiles in pattern of colors and sizes indicated on Architectural Plans
5. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings and underneath millwork.
6. Maintain reference markers, holes, openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk ot other non-permanent marking device.
7. Adhere floor tiles to substrates using a full spread of adhesive applied to substrate to product a completed installation without open cracks, voids, raising or puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.
8. Roll the plank or tile with a 3 section 100 lb. roller. Re-roll the entire glued flooring area with the 100 lb. roller within the working time of the adhesive. Continue to roll the floor throughout the working day to ensure a proper bond.
9. Use floor protection after installation. DO NOT use a plastic adhesive-based protection system.

3.4 MAINTENANCE
A. Post Installation Cleaning and Protection
1. Remove adhesive and other blemishes from surfaces
2. Sweep and vacuum surfaces thoroughly
3. Damp mop surfaces to remove marks and soil
4. Protect floor tile from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
5. Cover floor tile until Substantial Completion
B. Post Construction Cleaning
1. Dry mop floor using a microfiber mop pad or appropriate floor vacuum to remove dust particulate from the floor.
2. Spray neutral pH cleaner (true neutral pH is 7.0 - it is important to be as close to 7.0 as possible to prevent soil attracting residue), such as Shaw TOTALCARE® Hard Surface Cleaner or Diversey Stride, onto the floor in manageable area (spray mist will dry quickly). Use a microfiber wet mop pad to mop the floor with cleaner. If the pad becomes dirty, be sure to replace the pad with a new microfiber wet mop pad. Work floor in sections.
3. Always rinse the floor by mopping it with water only to remove any remaining residue from the floor.
4. Avoid using mop and shine products on resilient flooring.
5. In the event where dry wall dust/construction dust is mopped with water only, a residue film will appear on the floor after drying. Use the process below to remover the film from the floor.
6. Process to remove construction residue or cloudy film from resilient flooring
a. Dry mop floor to remove any construction dust or exterior soil tracked onto the flooring. Use microfiber dry mop pad. If microfiber dry mop pad gets dirty, replace the pad with a clean pad.
b. Spray neutral pH cleaner, such as Shaw TOTALCARE® Hard Surface Cleaner or Diversey's Stride, onto the floor in manageable area (spray mist will dry quickly). Work floor in sections. For smooth surface, use a low rpm (175 rpm) buffer with a 3M red pad on flooring with neutral pH cleaner applied to the floor to remove the residue film. (Never Dry Buff). For embossed or textured flooring, use a cylindrical brush scrubber with red brushes and a neutral pH cleaner applied to the floor to remove the residue film.
c. Using a wet microfiber mop pad, rinse with water only to remove any remaining residue from the flooring. When a wet mop pad becomes dirty, be sure to replace the pad with a new microfiber wet mop pad.
d. Repeat steps #2 and #3, if necessary.
e. When the resilient flooring is cleaned properly, the floor will have the same visual as right out of the box!
1. Contact manufacturer for recommended cleaners.
C. Preventative Floor Care
1. Avoid heavy traffic for 24 hours.
2. Proper furniture protection is required to protect resilient flooring.
a. Place chair pads underneath rolling chairs to prevent damage to the LVT flooring.
3. Moving heavy objects requires protective barriers to distribute the weight such as plywood (¼" or thicker) or heavy cardboard to prevent damage to the wear layer
4. Remove adhesive residue with a clean white cloth dampened with odorless mineral spirits or isopropyl alcohol.
5. Use window protection to avoid direct sunlight on resilient flooring.
a. Surface temperature should not exceed 100°F (38°C) from sunlight, bed bug treatment, steam mop, etc. and temperatures should not fall below 55°F (13°C).
6. Walk-off mats should be used at all entranceways, transition areas where oil and grease may be present and high moisture areas.
a. Proper mats should have non-staining backing, use PVC backed matting. To avoid possible discoloration, use mats without latex or rubber backings.
D. Routine maintenance not included. Contact the manufacturer for full maintenance instructions.

END OF SECTION

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SECTION 09 65 13
RESILIENT BASE & ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Resilient base.
B. Installation accessories.

1.2 REFERENCE STANDARDS
A. ASTM F1861 - Standard Specification for Resilient Wall Base; 2008.

1.3 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns, and colors available; and installation instructions.
C. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
D. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.

PART 2 PRODUCTS

2.1 RESILIENT BASE
A. Resilient Base: ASTM F1861, top set Style B, Cove, and as follows:
1. Height: 4-inch (100 mm).
2. Thickness: 1/8" TOE inch thick.
3. Finish: Satin.
4. Length: Roll.
5. Color: As selected by Architect from manufacturer's full line, unless otherwise dictated.
6. Manufacturers:
a. Shaw Industries Group, Inc., www.shawcontract.com
b. Tarkett USA Inc., www.comercial.tarkett.com
c. Mannington Mills, www.manningtoncommercial.com
b. Substitutions: See Section 01 60 00 - Product Requirements.

2.2 ACCESSORIES
A. Primers, Adhesives, and Seaming Materials: Waterproof; types recommended by flooring manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might tele- graph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust- free, and are ready to receive resilient base.

3.2 PREPARATION
A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.
B. Clean substrate.

3.3 INSTALLATION
A. Starting installation constitutes acceptance of sub-floor conditions.
B. Install in accordance with manufacturer's instructions.
C. Spread only enough adhesive to permit installation of materials before initial set.
D. Fit joints tightly.
E. Set flooring in place, press with heavy roller to attain full adhesion.
F. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.
G. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
H. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

3.4 RESILIENT BASE
A. Comply with manufacturer's instructions and recommendations. Install in proper relation to adjacent work.
B. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between joints.
C. Install base and accessories to minimize joints. Install base with joints as far from corners as practical.
D. Miter internal corners. At external corners, use pre-molded units. At exposed ends, use pre-molded units.
E. Install base on solid backing. Bond tightly to wall and floor surfaces.
F. Resilient base must be site conditioned at room temperature for a minimum of 48 hours prior to, during, and after installation.
G. Clean, polish, and protect.

END OF SECTION

SECTION 09 68 13
CARPET TILE
PART 1 – GENERAL

1.1 RELATED DOCUMENTS
A. Division 01 Specification Sections

1.2 SUMMARY
A. Section includes modular carpet tile.
B. Related Requirements:
1. Division 09 Section "Resilient Base" for resilient wall base installed with carpet tiles.

1.3 SUBMITTALS
A. Product Specification/Data: For each type of product.
1. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
B. Specification for Adhesive
C. Shop Drawings: Show the following
1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
2. Carpet tile type, color, and dye lot.
3. Type of subfloor.
4. Type of installation.
5. Pattern of Installation.
6. Pattern type, location, and direction.
7. Pile direction.
8. Type, color, and location of edge, transition, and other accessory strips.
D. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
1. Carpet Tile: Full-size sample
2. Exposed Edge, Transition, and Other Accessory Stripping: Full sample sizes.
3. Samples for Verification: For the following products as Basis of Design:
a. See Room Finish Plans and Schedule for all flooring as Basis of Design.
b. Product Schedule: For carpet tile. Use same designations indicated on Architectural Flooring Finish Plans.
E. Schedule
F. Qualification Data: For Installer.
G. Product Test Reports: For carpet tile, for tests performed by a qualified testing agency.

1.4 CLOSEOUT SUBMITTALS
A. Installation Instructions
B. Maintenance Instructions: For carpet tiles to include in maintenance manuals. Include the following:
1. Methods for maintaining carpet tile, including cleaning and stain-removal products, procedures, and manufacturer's recommended maintenance schedule.
2. Precautions for cleaning materials and methods that could be detrimental to carpet tile.
C. Warranty
1. Manufacturer warrants it's EcoWorx® carpet tile products under a Lifetime Commercial Limited Warranty when used in the proper fit for use indoor commercial applications. Carpet must be installed and maintained in accordance with the manufacturer's installation and maintenance guidelines.
2. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse.
3. Failures include, but are not limited to, more than 10 percent edge reveling, snags, runs, dimensional stability, loss of tuft bind strength, loss of face fiber, and delamination.

1.5 MAINTENANCE MATERIALS SUBMITTALS
A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
B. Carpet tile: Full-size units equal to 10 percent of amount installed for each type indicated, but not less than 10 sq. yd. (8.3 sq. m)

1.6 QUALITY ASSURANCE
A. Environmental:
1. Health Product Declaration (HPD) - 1000 ppm disclosure
2. Environmental Product Declaration (EPD)
3. CRI Green Label Plus Certified
4. Cradle to Cradle Certified Silver
5. NSF 140 Certified
6. Declare Label | Red List Approved
7. PVC-Free
8. Carbon Neutral
9. Embodied Carbon (A1-A3): 3.73 kg CO_2/m²
10. Recycled Content:
B. Installer Qualifications: An experienced installer who is certified by the International Certified Floorcovering Installers Association at the Commercial II Certification Level.
C. Manufacturer Qualifications
1. ISO 14001
2. ISO 9001
3. Carbon Neutral Manufacturing Facility
4. Re[TURN] Reclamation Program:
a. Will collect and recycle EcoWorx carpet tile free of charge for quantities of:
1. 100 SY (83 SM) or more within continental United States, Australia, Mexico, Europe and U.K. locations.
D. Mockups: Install 100 sf of product at designated location for Architect and Owner review and approval.

1.7 MATERIAL STORAGE AND HANDLING
A. The product should remain in the original packaging / pallet.
B. Pallets should not be stacked.
C. Storage should take place in a conditioned environment. Temperatures should remain between 65° F and 95° F. Humidity should not exceed 65%.
D. The product should not be exposed to any moisture.

1.8 SITE CONDITIONS
A. Comply with CRI 104 for temperature, humidity, and ventilation limitations.
B. HVAC System must be operational, maintaining the following conditions 24 hours prior to, during and after installation.
1. The installation site, carpet and adhesive must be between 50°F and 95°F. Adhesives will not function properly when exposed to temperatures outside this range. **Do not begin installation if subfloor temperature is below 50° F.**
2. Humidity: The installation site's ambient relative humidity must not fall below 40%.
3. Moisture Testing: Conduct subfloor moisture testing in accordance to the ASTM F-2170 (in-situ Relative Humidity) and/or ASTM F-1869 (Anhydrous Calcium Chloride).
4. pH / Alkalinity: Conduct ASTM F-3441 pH/Alkalinity testing.
C. Environmental limitations: Do not deliver or install carpet tiles until spaces are enclosed and weathertight, wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at occupancy levels during the remainder of the construction period.
D. Do not install carpet over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.

PART 2 – PRODUCTS

2.1 TESTING REQUIREMENTS
A. Pill Test CPSC FF 1 70: Pass
B. Radiant Panel ASTM E648: Class I
C. NBS smoke ASTM E662 NF: <450
D. Electrostatic Propensity AATCC 134: <3.5 kv

2.2 TILE CARPETING
A. Manufacturer: Shaw Contract
1. Product: Suspend Tile, 5T391
a. Construction: Multi-Level Pattern Loop
b. Fiber: Ecosolution Q100® Nylon
c. Dye Method: 100% Solution Dyed
d. Backing: Ecoworx® Tile
e. Protective Treatment: SSP® Shaw Soil Protection
f. Size: 9 in x 36 in | 23 cm x 91 cm
g. Gauge: 1/12 in | 47.2 per 10 cm
h. Stitches: 9.0 per in | 36.5 per 10 cm
i. Finished Pile Thickness: 0.120 in | 3.05mm
j. Average Density: 5700 oz/yd³ | 0.211 g/cm³
k. Total Thickness: 0.252 in | 6.4 mm
l. Tufted Weight: 19 oz/yd² | 644.2 g/m²
2. Product: Shelter Tile, 5T240
a. Construction: Multi-Level Pattern Loop
b. Fiber: Ecosolution Q100® Nylon
c. Dye Method: 100% Solution Dyed
d. Backing: Ecoworx® Tile
e. Protective Treatment: SSP® Shaw Soil Protection
f. Size: 9 in x 36 in
g. Gauge: 1/12 in | 47.2 per 10 cm
h. Stitches: 8.0 per in | 32.0 per 10 cm
i. Finished Pile Thickness: 0.130 in | 3.3 mm
j. Average Density: 6092 oz/yd³ | 0.225 g/cm³
k. Total Thickness: 0.278 in | 7.06 mm
l. Tufted Weight: 22 oz/yd² | 745.9 g/m²
B. Substitutions:
1. Tarkett USA, Inc., www.commercial.tarkett.com
2. Mannington Mills, www.manningtoncommercial.com
3. Substitutions: See Section 01 60 00 – Product Requirements

2.3 INSTALLATION MATERIALS
A. High Moisture Management Solutions (10 Year Warranty)
1. **Concrete with %RH >/= 99%, MVER </=12, pH </= 12**
a. Apply Shaw Surface Prep EXT followed by Shaw Moisture Shield.
b. Apply USG Advanced skim coat as necessary for patch/skim coat.
c. Install flooring with Shaw 4151* adhesive.
2. **Concrete with %RH >/= 99%, MVER </= 17, pH> 12**
a. Apply Surface Prep
b. Apply Shaw Moisture Shield.
c. Apply BC 9000
d. Apply USG Advanced Skim Coat as necessary for patch/skim coat.
e. Install flooring with Shaw 4151* adhesive
3. **Concrete with %RH >/= 99%, MVER >17, pH> 12**
a. Apply Shaw Surface Prep EXT followed by Shaw MoistureTek.
b. Apply USG Advanced skim coat as necessary for patch/skim coat.
c. Install flooring with Shaw 4151* adhesive.
B. Adhesive Options:
1. For EcoWorx (fiberglass reinforced):
a. 5000 Carpet Tile (LokWorx+): 97% RH pH 5-11 15 lbs.
b. 3000 Carpet Tile (LokWorx): 95% RH pH 5-11 10 lbs.
c. 3800 Indoor/Outdoor: 99% RH pH 7-12 12 lbs.
d. 4151 Multi-Use Adhesive: 99% RH pH 12 12 lbs.
e. 4252 Multi-Use PSA: 99% RH pH 5-12 12 lbs.
f. LokWorx Tabs: 85% RH pH 12 10 lbs.
g. LokDots: No visible moisture
h. Mill-applied ES: No visible moisture
i. 5000 Carpet Tile (LokWorx+): 97% RH pH 5-11 15 lbs.
C. Primer (if needed):
1. Shaw 9050
a. For dusting / powdering / porous concrete / lightweight concrete prime with a latex primer such as 9050.
b. For patches / levelers prime with a latex primer such as 9050.
D. Leveling and Patching Compounds (if needed):
1. Use a cementitious patching/leveling compound that meets or exceeds the required moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.
2. For cracks or saw cuts deeper than 1", follow the preparation and application instructions for QuikFill.
E. Transitions and Wall Base (FinishWorx)
1. Transition Strips, as required
a. Micro-Transition
b. TrimMaster
c. Universal Rubber Transition
d. The Wedge Subfloor Leveler
2. Wall Base Accessories
a. Cove Wall Base
1. Vinyl
2. See Section "Resilient Base & Accessories"

PART 3 – EXECUTION

2.4 EXAMINATION
A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, pH, installation tolerances, smoothness, level, and other conditions affecting carpet tile performance. Examine carpet tile for type, color, pattern, and potential defects.
B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F710 and the following:
1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by carpet tile manufacturer.
2. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
3. Proceed with installation only after unsatisfactory conditions have been corrected.

2.5 PREPARATION
A. Shaw recommends moisture testing prior to starting the installation.
1. If the subfloor exceeds adhesive moisture tolerances, moisture mitigation should be performed. Reference Section 8a. or contact the manufacturer rep.
B. Substrate must be structurally sound, clean, level and dry.
C. Substrate must be free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, adhesives, loosely bonded toppings, loose particles and any other substance or condition that may prevent or reduce adhesion.
D. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

2.6 LAYOUT AND INSTALLATION
A. Layout
1. Start the tile installation as near to the center of the room as possible and position it to use the largest perimeter cut tile size.
2. Snap a chalk line parallel to one major wall bisecting the starting point. It may be necessary to offset the center chalk line to assure perimeter tiles will be at least half size.
3. Snap a second chalk line from the starting point at 90° to the first line. Use a 3-4-5, 6-8-10, or larger triangle depending on the room size. Meters or feet may be used to lay out the triangle in these proportions.
B. Apply Adhesive
1. Use a full spread of adhesive applied with a 3/8" foam paint roller or 1/16" x 1/32" x 5/64" U-notch trowel. When using a 1/16" x 1/32" x 5/64" U-notch trowel to install StrataWorx products, this application method will Increase the overall bond strength and reduce the ease of removing and replacing tiles.
2. Allow the adhesive to dry completed before installing the carpet tile. Installing into wet adhesive will result in a permanent bond.
C. Installation
1. Install each full carton and complete an entire pallet before starting another pallet to minimize product variation. All Shaw carpet tiles have directional arrows on the back of the carpet tile to help facilitate the installation method for that product. The numbers within the arrows are for manufacturing purposes only and are not related to the installation.
2. Begin installation at the intersection of two chalk lines. Continue until you complete one quadrant.
3. Proceed to an adjoining quadrant until all four quadrants are completed. Larger areas may require chalk lines bisecting the original four quadrants.
4. Install the carpet tile using the pyramid technique. This will provide alignment checks during the installation. If the edges do not align and misalignment is noted, stop the installation and determine where the misalignment started and correct.
5. Slide carpet tile into positions to prevent yarn from being trapped at the seams. Trapped yarn can adversely affect the appearance of the installation.
6. Tiles must fit snugly, but not be compressed. Press the entire surface of the tile to ensure adhesion.
7. After installation, roll the entire installation with a 75 lb or greater roller to assure proper adhesion to the substrate.
8. Place plywood over the carpet when heavy objects will be moved within 24 hours after installation. DO NOT use a plastic adhesive-based protection system
9. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removeable flanges, alcoves, and similar openings as required.
10. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use non-permanent, non-staining marking device.
11. Refer to Architectural Flooring Finish Plans and Room Finish Schedule for preferred installation layout per carpet type.

2.7 MAINTENANCE
A. After Installation
1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet tile manufacturer.
2. Remove yarns that protrude from carpet tile surface.
3. Vacuum carpet tile using commercial machine with face-beater element.
4. Protect installed carpet tile to comply with CRI 104, Section 16, "Protecting Indoor Installations."
5. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.
B. Preventative Floor Care
1. Walk-off mats should be used at all entranceways, transition areas where oil and grease may be present and high moisture areas.
C. Routine Maintenance
1. Set a schedule depending on traffic and vacuum regularly.
2. Remove spots with spot removers as soon as they occur.
a. Use General Soil Spot Removers for most common spots and spills.
b. Use solvent spotters for oil/grease (petroleum—based spots). Solvent gels preferred. Follow manufacturer's recommendations when using solvents. Rinsing may be necessary.
3. Use CRI approved encapsulation agents periodically with
a. Dual-cylindrical counter-rotating brush machine for agitation.
b. Or walk behind extractors at lowest speed.
c. **NOTE:** Bonnet cleaning is NOT recommended
4. Clean with hot water extraction periodically.
5. Contact manufacturer for full maintenance instructions

END OF SECTION

SECTION 09 90 00
PAINTING AND COATING

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Surface preparation.
B. Field application of paints, stains, varnishes, and other coatings.
C. Scope: Finish all interior and exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
D. Do Not Paint or Finish the Following Items:
1. Items fully factory-finished unless specifically so indicated; materials and products having factory- applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
5. Marble, granite, slate, and other natural stones.
6. Tile.
7. Floors, unless specifically so indicated.
8. Glass.
9. Concealed pipes, ducts, and conduits.

1.2 DEFINITIONS
A. Conform to ASTM D16 for interpretation of terms used in this section.

1.3 REFERENCE STANDARDS
A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency ; current edition.
B. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications ; 2011a.
C. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood- Base Materials ; 2007.

1.4 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide complete list of all products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. MPI product number (e.g. MPI #47).
3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
C. Samples: Submit paper chip samples, illustrating range of colors and textures available for each surface finishing product scheduled.
D. Mock-ups: Provide a painted area no less than 48 inches x 48 inches, illustrating color and finish for each surface finishing product scheduled on planned substrate for that finish for Owner and Architect approval prior to painting any large areas.
E. Maintenance Data: Submit data on cleaning, touch-up, and repair of painted and coated surfaces.
F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
1. See Section 01 60 00 - Product Requirements, for additional provisions.
2. Extra Paint and Coatings: 1 gallon (4 L) of each color; store where directed.
3. Label each container with color in addition to the manufacturer's label.

1.5 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years documented experience.
B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years' experience.

1.6 DELIVERY, STORAGE, AND HANDLING
A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

1.7 FIELD CONDITIONS
A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
C. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
D. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Sherwin-Williams Company: www.sherwin-williams.com.
B. Substitutions: See Section 01 60 00 - Product Requirements.
C. Provide all paint and coating products from the same manufacturer.

2.2 PAINTS AND COATINGS - GENERAL
A. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.
1. Provide paints and coatings of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Supply each coating material in quantity required to complete entire project's work from a single production run.
3. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
B. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.
C. Volatile Organic Compound (VOC) Content:
1. Provide coatings that comply with the most stringent requirements specified in the following:
a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.
D. Flammability: Comply with applicable code for surface burning characteristics.
E. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.
F. Colors:
1. Provide the colors specified; where color is not specified, color will be selected later by Architect from the manufacturer's full line after award of contract.
2. Allow for minimum of three colors for each system, unless otherwise indicated, without additional cost to Owner.
3. Extend colors to surface edges; colors may change at any edge as directed by Architect.

2.3 PAINT - EXTERIOR
A. Paint EC-OP - All Exterior Vertical Concrete, Stucco, and Masonry Surfaces Indicated to be Painted, Unless Otherwise Indicated:
1. Preparation as specified by manufacturer.
2. Prime Coat: Primer sealer, latex.
a. SW Loxon Concrete & Masonry Primer Sealer, A24W8300, at 8.0 mils (0.203 mm) wet, 3.2 mils (0.081 mm) dry.
3. Intermediate Coat: Latex, exterior, matching topcoat.
4. Topcoat: Latex, exterior, flat.
a. SW A-100 Exterior Latex Flat A6 Series, at 4.0 mils (0.102 mm) wet, 1.2 mils (0.030 mm) dry, per coat.
5. Flat: MPI gloss level 1; use this sheen at all locations.
B. Paint ME-OP-3L - Ferrous Metals, Unprimed, Latex, 3 Coat:
1. One coat of latex primer.
2. Semi-gloss: Two coats of latex enamel.
C. Paint MgE-OP-3L - Galvanized Metals, Latex, 3 Coat:
1. One coat galvanize primer.
2. Semi-gloss: Two coats of latex enamel.
D. Plastic Trim Fabrication Substrates: Including architectural PVC, plastic, and fiberglass items not indicated to receive shop-applied finish.
1. Prime Coat: Primer, bonding, water-based:
a. SW PrepRite ProBlock Latex Primer/Sealer, B57-620 Series, at 4.0 mils (0.102 mm) wet, 1.4 mils (0.036 mm) dry, per coat.
2. Intermediate Coat: Latex, exterior, matching topcoat.
3. Topcoat: Latex, exterior, semi-gloss:
a. SW Solo Acrylic Semi-gloss, A76 Series, at 4.0 mils (0.102 mm) wet, 1.5 mils (0.038 mm) dry, per coat.
E. Manufacturers:
1. Sherwin-Williams Company; www.sherwin-williams.com.

2.4 PAINT - INTERIOR
A. Paint I-OP - All Interior gypsum board, cementitious board, and plaster indicated to be Painted, Unless Otherwise Indicated:
1. Latex System:
a. Prime cost: primer, interior, latex: SW ProMar 200 Zero VOC Latex primer, B28W2600, at 4.0 mils (0.102 mm) wet, 1.0 mils (0.025 mm) dry, per coat
b. Intermediate coat: latex, interior, matching topcoat.
c. Topcoat: Latex, interior:
1) At ceilings and other overhead surfaces: SW ProMar 200 Zero VOC Eggshell, B20-2600 Series, at 4.0 mils (0.102 mm) wet, 1.7 mils (0.043 mm) dry, per coat.
2) At vertical surfaces, unless otherwise indicated. SW ProMar 200 Zero VOC Eggshell, B20-2600 Series, at 4.0 mils (0.102 mm) wet, 1.6 mils (0.041 mm) dry, per coat.
3) At surfaces and items subject to frequent touching by occupants, including door frames and railings: SW ProMar 200 Zero VOC Semi-gloss, B31-2600 Series, at 4.0 mils (0.102 mm) wet, 1.7 mils (0.043 mm) dry, per coat.
2. Pre-catalyzed Waterbased Epoxy System (at wet walls or locations indicated on plans):
a. Prime Coat: primer sealer, latex, interior: Primer, SW ProMar 200 Zero VOC latex Primer, B28W2600, at 4.0 mils (0.102 mm) wet, 1.0 mils (0.025 mm) dry, per coat.
b. Intermediate Coat: Light industrial coating, interior, waterbased, matching topcoat.
c. Topcoat: Epoxy-modified latex, interior, eggshell: SW Pro Industrial Pre-Catalyzed Water based Epoxy Eggshell, K45 Series at 1.5 mils (0.038 mm) dry, per coat.
B. CMU and concrete substrates indicated to be painted.
1. Block Filler: Block filler, latex, interior/exterior:
a. SW PrepRite Block Filler, B25W25, at 75-125 sq. ft. per gal. (1.84 to 3.07 sq. m per liter).
2. Intermediate Coat: Latex, interior, matching topcoat.
3. Topcoat: Latex Interior: semi-gloss:
a. SW ProMar 200 Zero VOC Latex semi-gloss, B31-2600 Series, at 4.0 mils (0.102 mm) wet, 1.6 mils (0.041 mm) dry, per coat.
C. Metal substrates indicated to be painted (Aluminum, Steel, Galvanized Steel):
1. Prime coat: Primer rust-inhibitive, water based:
a. SW Pro Industrial Pro-cryl Universal Primer, B66-310 Series, at 5.0 to 10 mils (0.127 to 0.254 mm) we, to 2.0 to 4.0 milss (0.051 to 0.102 mm) dry.
2. Intermediate coat: Water based acrylic, interior, matching topcoat.
3. Topcoat: Water-based acrylic, semi-gloss:
a. SW Industrial Acrylic Semi-gloss Coating, B66-650 Series, at 2.5 to 4.0 mils (0.064 to 0.102 mm) dry, per coat.
D. Wood substrates for Opaque finish: including wood items not indicated to receive shop-applied finish.
1. Prime coat: primer sealer, latex, interior:
a. SW PrepRite ProBlock Sealer, B51-620 Series, at 4.0 mils (0.102 mm) wet, 1.4 mils (0.036mm) dry.
2. Intermediate Coat: Latex, interior, matching topcoat.
3. Topcoat: Latex Interior: semi-gloss:
a. SW ProMar 200 Zero VOC Latex semi-gloss, B31-2600 Series, at 4.0 mils (0.102 mm) wet, 1.6 mils (0.041 mm) dry, per coat.
E. Wood Substrates for Semi-transparent finish:
1. Polyurethane (topcoat):
a. 1st Coat: SW Wood Classics Interior Oil Stain, A49 Series, at 3.0-3.5 mils wet (no dry surface file), per coat.
b. 2nd coat: SW Wood Classics Polyurethane Varnish, A67 Series, at 4.0 mils (0.102 mm) wet, 1.4-1.7 mils dry, per coat.
c. 3rd coat: SW Wood Classics Polyurethane Varnish, A67 Series, at 4.0 mils (0.102 mm) wet, 1.4-1.7 mils dry, per coat.
F. Manufacturers:
1. Sherwin-Williams Company; www.sherwin-williams.com.

2.5 ACCESSORY MATERIALS
A. Accessory Materials: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required to achieve the finishes specified whether specifically indicated or not; commercial quality.
B. Patching Material: Latex filler.
C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.1 EXAMINATION
A. Do not begin application of coatings until substrates have been properly prepared.
B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
D. Test shop-applied primer for compatibility with subsequent cover materials.
E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless the moisture contents of surfaces are below the following maximums:
1. Gypsum Wallboard: 12 percent.
2. Plaster and Stucco: 12 percent.
3. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
4. Interior Wood: 15 percent, measured in accordance with ASTM D4442.

3.2 PREPARATION
A. Clean surfaces thoroughly and correct defects prior to coating application.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
D. Seal surfaces that might cause bleed through or staining of topcoat.
E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
F. Concrete and Unit Masonry Surfaces to be Painted: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.
G. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.
H. Plaster Surfaces to be Painted: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
I. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
J. Corroded Steel and Iron Surfaces to be Painted: Prepare using at least SSPC-PC 2 (hand tool cleaning) or SSPC-SP 3 (power tool cleaning) followed by SSPC-SP 1 (solvent cleaning).
K. Uncorroded Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand or power tool wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.
L. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
M. Interior Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation.
N. Wood Doors to be Field Finished: Seal wood door top and bottom edge surfaces with clear sealer.

3.3 APPLICATION
A. Apply products in accordance with manufacturer's instructions.
B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
C. Apply each coat to uniform appearance.
D. Sand wood and metal surfaces lightly between coats to achieve required finish.
E. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
F. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.4 PROTECTION
A. Protect finished coatings until completion of project.
B. Touch-up damaged coatings after Substantial Completion.

END OF SECTION

BDP
BOGGS DESIGN PARTNERS
Architecture + Interiors
607 S. ALEXANDER ST.
SUITE 101
PLANT CITY, FL 33563
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DATE:
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FL REG. NO. AR101635
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1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG/NP
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ARCHITECTURAL SPECIFICATIONS

SHEET NO:
G-022

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SECTION 10 14 00
SIGNAGE

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Interior Room Signage

1.2 REFERENCE STANDARDS
A. 36 CFR 1191 - Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities; Final Rule; current edition; (ADA Standards for Accessible Design).
B. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2009.

1.3 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Manufacturer's printed product literature for each type of sign, indicating sign styles, font, foreground and background colors, locations, overall dimensions of each sign.
C. Signage Schedule: Provide information sufficient to completely define each sign for fabrication, including room number, room name, other text to be applied, sign and letter sizes, fonts, and colors.
1. When room numbers to appear on signs differ from those on the drawings, include the drawing room number on schedule.
2. When content of signs is indicated to be determined later, request such information from Owner through Architect at least 2 months prior to start of fabrication; upon request, submit preliminary schedule.
3. Submit for approval by Owner through Architect prior to fabrication.
D. Manufacturer's Installation Instructions: Include installation templates and attachment devices.

1.4 DELIVERY, STORAGE, AND HANDLING
A. Package signs as required to prevent damage before installation.
B. Package room and door signs in sequential order of installation, labeled by floor or building.
C. Store tape adhesive at normal room temperature.

1.5 FIELD CONDITIONS
A. Do not install tape adhesive when ambient temperature is lower than recommended by manufacturer.
B. Maintain this minimum temperature during and after installation of signs.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Best Sign Systems, Inc; www.bestsigns.com.
B. Cosco Industries ADA signs ; www.coscoarchitecturalsigns.com.
C. Substitutions: See Section 01 60 00 - Product Requirements.

2.2 SIGNAGE APPLICATIONS
A. Accessibility Compliance: All signs are required to comply with ADA Standards for Accessible Design and ANSI/ICC A 117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.
B. ADA-Compliant Interior Signage, Custom Design. Verify interior signage requirements with Owner prior to submitting signage schedule.

2.3 SIGN TYPES
A. Flat Signs: One-piece construction, PVC/Acrylic alloy.
1. Thickness: 1/8" minimum.
2. Profile: Square.
3. Wall Mounting of One-Sided Signs: Tape adhesive.
B. Color and Font: Unless otherwise indicated:
1. Character Font: Helvetica, Arial, or other sans serif font.
2. Character Case: Upper case only.
3. Braille: Grade 2 braille, placed directly below last line of letters or numbers.
4. Colors: To be selected by architect from manufacturer's standard color selection. Characters, numbers, and symbols shall be contrasting color from background.

2.4 ACCESSORIES
A. Tape Adhesive: Double sided tape, permanent adhesive.

PART 3 EXECUTION

3.1 EXAMINATION
A. Install in accordance with manufacturer's instructions.
B. Install neatly, with horizontal edges level.
C. Locate signs where indicated:
1. Room and Door Signs: Locate on wall at latch side of door with centerline of sign at 60 inches (1525 mm) above finished floor per ADA requirements.
2. If no location is indicated obtain Owner's instructions.
D. Protect from damage until Substantial Completion; repair or replace damage items.

END OF SECTION

SECTION 10 28 13
TOILET ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Public-use washroom accessories.
B. Custodial accessories.

1.2 REFERENCES
A. ADA/ANSI A117.1ANSI/ASME A112.18.1 - American National Standard for Plumbing Fixture Fittings.
B. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
C. ASTM A 666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar
D. ASTM A 1008/A 1008M- Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable
E. ASTM B 456 - Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium
F. ASTM C 1503 - Standard Specification for Silvered Flat Glass Mirror.
G. ASTM F 446 - Standard Consumer Safety Specification for Grab Bars and Accessories Installed in the Bathing Area.
H. U.S. Architectural & Transportation Barriers Compliance Board. Americans with Disability Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities.

1.3 SUBMITTALS
A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation requirements and rough-in dimensions.
C. Shop Drawings: Submit plans, elevations, and detail section; indicate overall dimensions, material thickness, location and size of product, and mounting provisions and methods.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Manufacturer with minimum 5 years experience in the manufacture of the product types specified. If requested submit a list of successful installations of similar products for evaluation by Architect.
B. Accessibility Requirements: Comply with requirements of ADA/ABA and with requirements of authorities having jurisdiction.
C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
1. Finish areas designated by Architect.
2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
3. Refinish mock-up area as required to produce acceptable work.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Store products in manufacturer's unopened packaging until ready for installation.

1.6 PROJECT CONDITIONS
A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturers:
1. Bradley Corporation
2. Bobrick
3. Sloan
4. American Standard
B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 MATERIALS
A. Stainless Steel: ASTM A 666 Type 304 (18-8); satin finish exposed surfaces unless otherwise indicated.
B. Steel Sheet: ASTM A 1008/A 1008M, Designation CS, manufacturer's standard thickness.
C. Galvanized-Steel Sheet: ASTM A 653/A 653M, with G60 hot-dip zinc coating, manufacturer's standard thickness.
D. Galvanized-Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
E. Fasteners:
1. Exposed: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant.
2. Concealed: Galvanized steel.
F. Chrome Plating: ASTM B 456, Service Condition Number SC 2, moderate service.
G. Mirrors: ASTM C 1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.
H. ABS Plastic: Acrylonitrile-butadiene-styrene resin formulation.

2.3 PUBLIC-USE WASHROOM ACCESSORIES
A. Soap Dispensers:
1. Basis of Design: Bradley 6A03-11 Diplomat Liquid Soap/Gel Sanitizer Dispenser
2. Description: Surface mounted automatic liquid soap or gel sanitizer dispenser, capacity 27 oz, hinged cover, completely concealed mounting plate, vandal-resistant filler hole cover and sight gauge
a. Materials: Stainless steel.
b. Mounting: Surface mounted
3. Application:
a. Where indicated on the Drawings.
B. Toilet Tissue Dispensers:
1. Basis of Design: Bradley 5402 Toilet Tissue Dispenser.
2. Double roll, surface mount, exposed, standard-core roll up to 5" diameter, theft resistant, satin finish.
3. Application:
a. At each water closet, unless otherwise indicated.
b. Where indicated on the Drawings.
C. Paper Towel Dispenser/Waste Receptacle:
1. Basis of Design: Bradley 235/-10 Recessed/Semi-Recessed Towel Dispenser and Waste Receptacle.
2. Recessed/Semi-Recessed folded paper towel dispenser, accommodates 800 multi-fold, or 600 C-fold paper towels, 4.9 gal (0.65 cu ft) capacity waste receptacle, satin finish. 24-ga stainless steel cabinet and 22-ga stainless steel flange, 18-ga stainless steel door with full length piano hinge and tumbler lock keyed like other Bradley units. Vandal resistant. Dispenser requires less than 5 pounds force to operate.
3. Application:
a. Recessed: Women 110, Men 111, Unisex 211, Unisex ADA 212
b. Semi-Recessed: Women 219 and Men 220
c. Where indicated on the Drawings.
D. Grab Bars:
1. Basis of Design: Bobrick B-6806 Straight Grab Bar and Bobrick B-6861 Two-Wall Grab Bar, 16"x31".:
a. 1-1/2-inch o.d. 18 ga stainless steel tubing. 3 inch diameter 12 ga stainless steel flanges; 14 ga stainless steel escutcheons. Standard finish.
2. Length:
a. GB36 inches.
b. GB42 inches.
c. GB16x31 inches
d. Length locations as indicated on the Drawings.
3. Application:
a. Where indicated on the Drawings.
E. Sanitary Product Disposal:
1. Basis of Design: Bradley 4781-11 Surface-Mounted Sanitary Napkin Disposal:
2. Wall mounted. Stainless steel construction, with satin finish. Hinged lift up door.
3. Application:
a. Where indicated on the Drawings.
F. Mirror:
1. Basis of Design: Bradley 780 Angle Frame Mirror:
a. Mirror shall have a one-piece, stainless steel angle frame, 3/4" x 3/4" (19 x 19mm) with continuous integral stiffener on all sides and beveled front to hold frame tightly against mirror; corners shall be heliarc welded, ground, and polished smooth; all exposed surfaces shall have satin finish. Reflective surfaces shall be guaranteed for 15 years against silver spoilage. All edges shall be protected by plastic filler strips and the back shall be protected by full-size, shock-absorbing, water-resistant, nonabrasive, 3/16" (5mm) thick polyethylene padding. Galvanized steel back shall have integral horizontal hanging brackets located at top and bottom for mounting on concealed wall hanger and to prevent the mirror from pulling away from the wall.
2. Sizes as shown in Architectural drawings.
G. Robe Hook
1. Basis of Design: Bradley Contemporary Series Chrome Plated Double Robe Hook
a. Concealed mounting plate

2.4 CUSTODIAL ACCESSORIES
A. Mop and Broom Holder MOP:
1. Basis of Design: Bobrick B-223 Stainless Steel Mop and Broom Holder.
2. Description: Metal plate with attached mop-broom handle holding mechanisms.
a. Materials: Stainless steel. Mop-broom handle holders include rubber cams.
Finish: Satin stainless steel.
Mounting: Surface mounted.
b. Length:
1. 24 inches (610 mm) with 3 Hooks/Mop-Broom Holders.
3. Application:
a. Where indicated on the Drawings.

2.5 FABRICATION
A. Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
B. Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 EXECUTION

3.1 EXAMINATION
A. Do not begin installation until substrates have been properly prepared.
B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION
A. Clean surfaces thoroughly prior to installation.
a. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION
A. Install in accordance with manufacturer's instructions.
B. Install supports attached to building structure for equipment requiring supports.
C. Grab Bars: Install grab bars to withstand downward force of not less than 250 lbf (1112 N) per ASTM F 446.
D. Install equipment level, plumb, and firmly in place in accordance with manufacturer's rough-in drawings.
E. Install all accessories per ADA and Florida Accessibility Code mounting heights and clearances.

3.4 CLEANING AND PROTECTION
A. Protect installed products until completion of project.
B. Clean unit surfaces and leave in ready-to-use condition.
C. Turn over keys, tools, maintenance instructions, and maintenance stock to Owner.
D. Touch-up, repair or replace damaged products before Substantial Completion.

3.5 TESTING AND ADJUSTING
A. Test each piece of equipment to assure proper operation, freedom of movement, and alignment. Install new batteries in battery-powered items.
B. Repair or replace malfunctioning equipment, or equipment with parts that bind or are misaligned.

END OF SECTION

SECTION 10 44 00
FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Fire extinguishers.

1.2 REFERENCE STANDARDS
A. NFPA 10 - Standard for Portable Fire Extinguishers; 2010.
B. UL (FPED) - Fire Protection Equipment Directory; Underwriters Laboratories Inc.; current edition.

1.3 SUBMITTALS
A. Product Data: Provide extinguisher operational features.
B. Maintenance Data: Include test, refill or recharge schedules and re-certification requirements.

1.4 FIELD CONDITIONS
A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

1.5 QUALITY ASSURANCE
A. Provide fire extinguishers. cabinets. and accessories by single manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Fire Extinguisher Cabinets and Accessories:
1. Larsen's Manufacturing Co: www.larsensmfg.com.
2. Ansul, Inc: www.ansul.com.
3. JL Industries, Inc: www.jlindustries.com.
4. Substitutions: See Section 01 60 00 - Product Requirements.

2.2 FIRE EXTINGUISHERS
A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
1. Provide extinguishers labeled by UL for the purpose specified and satin finish.
B. Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
1. Class: 2-A:10-B:C.
2. Size: 5 pound (2.27 kg).
3. Finish: Baked polyester powder coat.
4. Provide cabinet as specified on Drawings.
C. Wet Chemical Type Fire Extinguisher: Carbon steel tank, with pressure gauge.
1. Class: K.
2. Size: 6 liter.
3. Finish: Baked polyester powder coat.
4. Provide compatible wall mounting bracket.
D. Refer to Drawings for locations.

2.3 FIRE EXTINGUISHER CABINETS
A. Cabinet Configuration: Steel construction with stainless steel finish; sized to accommodate dimensions of fire extinguisher.
1. Semi-Recessed type at all frame walls.
2. Surface mounted at all CMU walls.
3. Door: Full glass; hinged for 180-degree opening; keyed lock.
4. Door Glazing: Glass, clear, 1/8 inch (3 mm) thick.

2.4 ACCESSORIES
A. Extinguisher Brackets: Formed steel, chrome-plated.

PART 3 EXECUTION

3.1 INSTALLATION
A. Verify rough openings for cabinet are correctly sized and located.
B. Install in accordance with manufacturer's instructions.
C. Secure rigidly in place.

END OF SECTION

SECTION 14 2400
HYDRAULIC ELEVATORS
PART I GENERAL

1.01 SECTION INCLUDES
A. Complete hydraulic elevator systems.
1. Passenger type.
2. The work required under this section consists of all labor, materials and services required for the complete installation (including operational verification) of all the equipment required for the elevator(s) as herein specified.
3. All work shall be performed in a first class, safe and workmanlike manner.
4. In all cases where a device or part of the equipment is herein referred to in the singular, it is intended that such reference shall apply to as many of such devices or parts as are required to make complete installation.
B. Elevator Maintenance Contract.

1.02 RELATED REQUIREMENTS
A. The following sections contain requirements that relate to this section and are performed by trades other than the elevator manufacturer/installer.
B. 01 5000 - Temporary Facilities and Controls: protection of floor openings and personnel barriers; temporary power and lighting.
C. Section 03 3000 - CAST-IN-PLACE CONCRETE: Includes elevator machine foundation, enclosed hoistway, elevator pit, overhead hoist beams, and grouting thresholds.
D. Section 05 5000 - Metal Fabrications: Includes elevator pit ladder, sill supports, divider beams, and overhead hoist beams.
E. Section 07 1600: Waterproofing of elevator pit walls and floor.
F. Section 23 5000: Ventilation and temperature control of elevator equipment room.
G. Section 26 0500 - Common Work Results for Electrical:
1. Main disconnects for each elevator.
2. Electrical power for elevator installation and testing.
3. Disconnecting device to elevator equipment prior to activation of sprinkler system.
4. The installation of dedicated GFCI receptacles in the pit and overhead.
5. Lighting in controller area, machine area and pit
6. Wiring for telephone service to controller.
H. Section 26 3000 - Emergency (Standby) Power Supply Systems: emergency generator for elevator operation.
I. Section 37 3000 - Voice Communications: ADAAG - required emergency communications equipment.
J. Section 28 3100 - Fire Alarm Systems: Fire and Smoke detectors at required locations and interconnecting devices; fire alarm signal lines to contacts in the machine area.
K. Section 31 1000 - Site Clearing: excavation for cylinder well casing.

1.03 REFERENCE STANDARDS
A. ANSI AI 17. 1, Building and Facilities, Providing Accessibility and Usability for Physically Handicapped People.
B. ASME A17.1 - Safety Code for Elevators and Escalators.
C. ASME AI7.7 - Performance-Based Safety Code for Elevators and Escalators.

1.04 SYSTEM DESCRIPTION
A. Equipment Description: (Holed) (Holeless) Hydraulic elevator with machine-room less application.
B. Quantity of Elevators: 1
C. Elevator Stop Designations: 1 2
D. Stops: 2
E. Openings: In-Line
F. Travel: 14 ft 0 in
G. Rated Capacity: 2500 lbs.
H. Rated Speed: 100 fpm
I. Cab Height: 8'-0"
J. Entrance Type and Width: Single-Slide Door – 42"
K. Entrance Height: 7'-0"
L. Main Power Supply: (refer to plans) _____volts, three-phase.
M. Car Lighting Power Supply: 120 volts, single-phase, 15 amps, 60 Hz.
N. Machine Location: No machine-room required, tank and controller in hoistway and pit.
O. Signal Fixtures: Manufacturer's standard.
P. Controller Location: Inside hoistway, accessible by a door in a side hoistway wall on the 1st landing.
Q. Operation: Simplex Collective: Using a microprocessor-based controller, Operation shall be automatic by means of the car and hall buttons. If all calls in the system have been answered, the car shall park at the last landing served.
R. Operation Features
1. Full Collective Operation
2. Fan and Light Protection
3. Firefighters' Service Phase I and Phase II
4. Top of Car Inspection
S. Door Control Features:
1. Door control to open doors automatically when car arrives at a landing in response to a normal hall or car call.
2. Elevator doors shall be provided with a reopening device that will stop and reopen the car door(s) and hoistway door(s) automatically should the door(s) become obstructed by an object or person.
3. Door nudging operation to occur if doors are prevented from closing for an adjustable period of time.

1.05 SUBMITTALS
A. Product Data: Submit data on following items:
1. Signal and operating fixtures, operating panels, and indicators.
2. Car design, dimensions, layout, and components.
3. Car and hoistway door and frame details.
4. Electrical characteristics and connection requirements.
5. Expected Heat dissipation of elevator equipment in hoistway (BTU).
6. Color selection chart for Cab and Entrances.
B. Shop Drawings: Include appropriate plans, elevations, sections, diagrams, and details on following items:
1. Hoistway Components: Size and location of car guide rails, buffers, jack unit and other components.
2. Rail bracket spacing; maximum loads imposed on guide rails requiring load transfer to building structural framing.
3. Clearances and over-travel of car.
4. Location and sizes of access doors, hoistway entrances and frames.
5. Electrical characteristics and connection requirements.
6. Indicate arrangement of elevator equipment and allow for clear passage of equipment through access openings.
C. Initial Maintenance Contract.
D. Operation and Maintenance Data:
1. Operation and maintenance manual.
2. Schematic drawings of equipment and hydraulic piping, and wiring diagrams of installed electrical equipment with list of corresponding symbols to identify markings on machine room and hoistway apparatus.

1.06 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum fifteen years documented experience in the fabrication, installation and service of elevators.
B. Installer Qualifications: Elevators shall be installed by the manufacturer.
C. Permits, Inspections and Certificates: The Elevator Contractor shall obtain and pay for necessary Municipal or State Inspection and permit as required by the elevator inspection authority, and make such tests as are called for by the regulations of such authorities. These tests shall be made in the presence of such authorities or their authorized representatives.

1.07 WARRANTY
A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
B. The elevator contractor's acceptance is conditional on the understanding that their warranty covers defective material and workmanship. The warranty period shall not extend longer than one (1) year from the date of completion or acceptance thereof by beneficial use, whichever is earlier, of each elevator. The warranty excludes: ordinary wear and tear, improper use, vandalism, abuse, misuse, or neglect or any other causes beyond the control of the elevator contractor and this express warranty is in lieu of all other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose.

1.08 MAINTENANCE AND SERVICE
A. Maintenance service consisting of regular examinations and adjustments of the elevator equipment shall be provided by the elevator contractor for a period of three (3) (12) months after the elevator has been turned over for the customer's use. This service shall not be subcontracted but shall be performed by the elevator contractor. All work shall be performed by competent employees during regular working hours of regular working days. This service shall not cover adjustments, repairs or replacement of parts due to negligence, misuse, abuse or accidents caused by persons other than the elevator contractor. Only genuine parts and supplies as used in the manufacture and installation of the original equipment shall be provided.
B. The elevator control system must:
1. Provide in the controller the necessary devices to run the elevator on inspection operation.
2. Provide on top of the car the necessary devices to run the elevator in inspection operation.
3. Provide in the controller an emergency stop switch. This emergency stop switch when opened disconnects power from the brake and prevents the motor from running.

PART 2 PRODUCTS

2.01 MANUFACTURERS

2.02 DESIGN AND SPECIFICATIONS
A. Provide machine-room less (holeless) (holed) hydraulic elevators from Mowrey Elevator Company. The control system and car design based on materials and systems manufactured by Mowrey Elevator Company. The system shall consist of the following components:
1. The entire hydraulic system and the controller shall be located inside the hoistway. No extra machine room or control closet space is required.
2. LED lighting in ceiling lights and elevator fixtures.
B. Approved Installer: Mowrey Elevator Company

2.03 EQUIPMENT: MACHINE COMPONENTS
A. The hydraulic system shall be of compact design suitable for operation under the required pressure. The power component shall be mounted in the hydraulic-fluid storage tank. The control valve shall control flow for up and down directions hydraulically and shall include an integral check valve. A control section including control solenoids shall direct the main valve and control: up and down starting, acceleration, transition from full speed to leveling speed, up and down stops, pressure relief and manual lowering. All of these functions shall be fully adjustable for maximum smoothness and to meet contract conditions. System to be provided with a low-pressure switch and a shut-off valve.
B. The entire hydraulic system with hydraulic-fluid storage tank, power component and valves shall be located in the hoistway pit and be easily accessible for maintenance through an access door in the hoistway wall.
C. A microprocessor-based controller shall be provided, including necessary starting switches together with all relays, switches, solid-state components and hardware required for operation, including door operation, as described herein. A three (3) phase overload device shall be provided to protect the motor against overloading.
D. Controller Location: The controller shall be located together with the hydraulic system in the hoistway pit and be easily accessible for maintenance through the same access door that is also used for the hydraulic system. A manual lowering feature shall permit lowering the elevator at slow speed in the event of power failure or for adjusting purposes.
E. Pressure Switch

2.04 EQUIPMENT: HOISTWAY COMPONENTS
A. Plunger(s) and Cylinder(s): Each cylinder shall be constructed of steel pipe of sufficient thickness and suitable for the operating pressure. The top of each cylinder shall be equipped with a cylinder head with a drip ring to collect any oil seepage as well as an internal guide ring and self-adjusting packing. Each plunger shall be constructed of selected steel tubing or pipe of proper diameter machined true and smooth with a fine polished finish. Each plunger shall be provided with a stop ring electrically welded to it to prevent the plunger from leaving the cylinder. Each plunger and cylinder shall be installed plumb and shall operate freely with minimum friction.
B. Car Guide Rails: Tee-section steel rails with brackets and fasteners.
C. Wiring: Wiring for hoistway electrical devices included in scope of the elevator system, hall panels, pit emergency stop switch, and the traveling cable for the elevator car.
D. Hoistway Entrances:
1. Frames: Entrance frames shall be of bolted construction for complete one-piece unit assembly. All frames shall be securely fastened to fixing angles mounted in the hoistway and shall be of UL fire rated steel.
2. Sills Shall Be: Extruded Aluminum Sills at: 1 2
3. Doors: Entrance doors shall be of metal construction with vertical channel reinforcements.
4. Fire Rating: Entrance and doors shall be UL fire rated for 1-1/2 hour.
5. Frame and Entrance Finishes: Brushed Stainless Steel.
6. Entrance Marking Plates: Entrance jambs shall be marked with 4" x 4" plates having raised floor markings with Braille located adjacent to the floor marking. Marking plates shall be provided on both sides of the entrance.
7. Sight Guards: Sight guards will be furnished with all doors painted to match with painted doors, painted black for stainless steel doors.

2.05 EQUIPMENT: CAR COMPONENTS
A. Cab: Steel Framed Cab with laminate wall panels. Laminate to be selected from manufacturer's catalog of choices.
B. Car Front Finish: Satin Stainless Steel.
C. Car Door Finish: Satin Stainless Steel.
D. Ceiling Type: Flat Ceiling with 6 LED Lights
E. Ceiling Finish: Brushed Steel Finish.
F. Emergency Car Lighting: An emergency power unit employing a 6-volt sealed rechargeable battery and totally static circuits shall be provided to illuminate the elevator car in the event of building power failure.
G. Fan: A one-speed 120 VAC fan will be mounted to the ceiling to facilitate in-car air circulation, meeting A17.1 code requirements. The fan shall be rubber mounted to prevent the transmission of structural vibration and will include a baffle to diffuse audible noise. A switch shall be provided in the car-operating panel to control the fan.
H. Handrail: Cylindrical with Brushed Stainless Steel finished handrails shall be provided on the rear wall.
Threshold: Extruded Aluminum
Emergency Exit Contact: An electrical contact shall be provided on the car-top exit.
K. Guides: Slide type guides at the top and the bottom.
M. Certificate frame: Provide a Certificate frame with a satin stainless steel finish.

2.06 EQUIPMENT: SIGNAL DEVICES AND FIXTURES
A. Car Operating Panel: A car operating panel shall be provided which contains all push buttons, key switches, and message indicators for elevator operation. The car operating panel shall have a satin stainless steel finish.
1. A car operating panel shall be furnished. It shall contain a bank of round stainless steel, mechanical LED illuminated buttons, Flat Flush mounted to the panel and marked to correspond to the landings served. All buttons to have raised numerals and Braille markings. The buttons shall be: satin stainless steel with illuminating halo..
2. The car operating panel shall be equipped with the following features:
a. Raised markings and Braille to the left hand side of each push-button.
b. Car Position Indicator at the top of and integral to the car operating panel.
c. Door open and door close buttons.
d. Inspection key-switch.
e. Elevator Data Plate marked with elevator capacity and car number.
f. Help Button: The help button shall initiate two-way communication between the car and a location inside the building, switching over to another location if the call is unanswered, where personnel are available who can take the appropriate action. Visual indicators are provided for call initiation and call acknowledgement.
g. Landing Passing Signal: A chime bell shall sound in the car to signal that the car is either stopping at or passing a floor served by the elevator.
h. In car stop switch
i. Firefighter's hat
j. Firefighter's Phase II Key-switch
k. Call Cancel Button
l. Firefighter's Phase II Emergency In-Car Operating Instructions.
B. Car Position Indicator: A digital, LED car position indicator shall be integral to the car operating panel.
C. Hall Fixtures: Hall fixtures shall be provided with necessary push buttons and key switches for elevator operation. All Hall fixtures shall have a Brushed Stainless Steel Finish.
1. Hall Buttons: Flat Flush Mounted satin stainless steel button with LED illuminating halos.
D. Car Lantern and Chime: A directional lantern visible from the corridor shall be provided in the car entrance. When the car stops and the doors are opening, the lantern shall indicate the direction in which the car is to travel and a chime will sound.

PART 3 EXECUTION

3.01 PREPARATION
A. Maintain elevator pit excavation free of water.
B. Take field dimensions and examine conditions of substrates, supports, and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected.

3.02 INSTALLATION
A. Installation of all elevator components except as specifically provided for elsewhere by others.

3.03 DEMONSTRATION
A. The elevator contractor shall make a final check of each elevator operation with the Owner or Owner's representative present prior to turning each elevator over for use. The elevator contractor shall determine that control systems and operating devices are functioning properly.

3.04 FIELD QUALITY CONTROL
A. See Section 01 4000 - Quality Requirements, for additional requirements.

3.05 ADJUSTING
A. Adjust for smooth acceleration and deceleration of car to minimize passenger discomfort.

3.06 CLOSEOUT ACTIVITIES
A. Demonstrate proper operation of equipment to Owner's designated representative.

3.07 PROTECTION
A. Do not permit construction traffic within car after cleaning.
B. Protect installed products until Date of Substantial Completion.
C. Touch-up, repair, or replace damaged products and materials prior to Date of Substantial Completion.

3.08 MAINTENANCE
A. Provide Initial Maintenance Contract of elevator system and components in accordance with ASME A17.1 and requirements as indicated for (3) (12) months from Date of Substantial Completion.
B. Perform maintenance contract services using competent and qualified personnel under the supervision and direct employ of the elevator manufacturer or original installer.
C. Include systematic examination, adjustment, and lubrication of elevator equipment.
D. Perform work without removing cars from use during peak traffic periods.

END OF SECTION 14 2400

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DATE:
ERICA AZORIN CRAIG
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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG/NP
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
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SECTION 31 31 00
SOIL TREATMENT FOR TERMITE AND PEST CONTROL

PART 1 - GENERAL
1.1 SECTION INCLUDES
A. Chemical soil treatment.

1.2 REFERENCES
A. Title 7, United States Code, 136 through 136y - Federal Insecticide, Fungicide and Rodenticide Act; United States Code; 1947 (Revised 1996).

1.3 SUBMITTALS
A. Product Data: Indicate toxicants to be used, composition by percentage, dilution schedule, intended application rate.
B. Test Reports: Indicate regulatory agency approval reports when required.
C. Manufacturer's Application Instructions: Indicate caution requirements.
D. Manufacturer's Certificate: Certify that toxicants meet or exceed specified requirements.
E. Warranty: Submit warranty and ensure that forms have been completed in Owner's name.

1.4 QUALITY ASSURANCE
A. Installer Qualifications: Company specializing in performing this type of work and:
1. Having minimum of 2 years documented experience.
2. Approved by manufacturer of treatment materials.

1.5 REGULATORY REQUIREMENTS
A. Conform to applicable code for requirements for application, and comply with EPA regulations.
B. Provide certificate of compliance from authority having jurisdiction indicating approval of toxicants.

1.6 SEQUENCING
A. Apply toxicant immediately prior to installation of vapor barrier under slabs-on-grade.

1.7 WARRANTY
A. Provide five-year installer's warranty against damage to building caused by termites.
1. Include coverage for repairs to building and to contents damaged due to building damage. Repair damage and, if required, re-treat.

PART 2 PRODUCTS
2.1 MATERIALS
A. Manufacturers:
1. Bayer Corp: www.nobugs.com
2. FMC Pest Solutions: www.pestsolutions.fmc.com
3. Syngenta Professional Products: www.syngentaprofessionalproducts.com
4. Substitutions: See Section 01600 - Product Requirements.
B. Toxicant Chemical: EPA approved; synthetically color dyed to permit visual identification of treated soil.
C. Diluent: Recommended by toxicant manufacturer.

2.2 MIXES
A. Mix toxicant to manufacturer's instructions.

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify that soil surfaces are unfrozen, sufficiently dry to absorb toxicant, and ready to receive treatment.
B. Verify final grading is complete.

3.2 APPLICATION
A. Spray apply toxicant in accordance with manufacturer's instructions.
B. Apply toxicant at following locations:
1. Under Slabs-on-Grade.
2. At Both Sides of Foundation Surface.
C. Apply extra treatment to structure penetration surfaces such as pipe or ducts, and soil penetrations such as grounding rods or posts.
D. Re-treat disturbed treated soil with same toxicant as original treatment.
E. If inspection or testing identifies the presence of termites, re-treat soil and re-test.

3.3 PROTECTION OF FINISHED WORK
A. Do not permit soil grading over treated work.

END OF SECTION

SECTION 31 21 00
RADON MITIGATION

PART 1 GENERAL
1.1 SECTION INCLUDES
A. Minimum construction criteria for passive control of radon entry into residential buildings.

1.2 REFERENCES
A. New construction: ASTM E 1465-08a (or most recent edition), Standard Practice for Radon Control Options for the Design and Construction of New Low-Rise Residential Buildings (available at http://astm.org/Standards/E1465.htm).

1.3 SUBMITTALS
A. Product Data: Indicate toxicants to be used, composition by percentage, dilution schedule, intended application rate.
B. Test Reports: Indicate regulatory agency approval reports when required.
C. Manufacturer's Application Instructions: Indicate caution requirements.
D. Manufacturer's Certificate: Certify that toxicants meet or exceed specified requirements.
E. Warranty: Submit warranty and ensure that forms have been completed in Owner's name.

1.4 QUALITY ASSURANCE
A. Installer Qualifications: Company specializing in performing this type work and:
1. Having minimum of 2 years documented experience.
2. Approved by manufacturer of materials.

1.5 REGULATORY REQUIREMENTS
A. Conform to applicable code for requirements for application, and comply with EPA regulations.

1.6 NEW CONSTRUCTION
A. Radon Zones 2 and 3
1. Construction requirements.
a. Gas permeable layer. The coarse aggregate permeable layer below the concrete slabs that would carry any radon away from the structure's interior must meet all of the requirements of ASTM # 1465-08a, Section 6.4 (or similar section in the most recent edition).
b. Ground cover. The concrete slabs and plastic membranes that seal the top of the gas permeable layer must meet all of the requirements of ASTM E 1465-08a, Section 6.2 (or similar section in the most recent edition).
c. Foundation walls. Foundation walls must meet all of the requirements of ASTM E 1465-08a, Section 6.3 (or similar section in the most recent edition).
2. Post-construction testing is required, except as provided at IV.A.3.
a. Radon Testing must be performed after construction is complete, but prior to Final Endorsement.
b. If testing results are at or above the threshold, retrofit based on ASTM E 2121-11 (or most recent edition) is required, with installation of a passive system. If testing results remain above

PART 2 PRODUCTS

2.1 Sub-slab and soil members
A. Membrane Material: A sub-slab or soil cover membrane a min of 6 mil thick single layer of polyethylene.
1. Tape used to install membrane shall be min width of 2 inches and shall be pressure sensitive vinyl or other non-deteriorating pressure sensitive tape.
2. Mastic used to install and seal membrane shall be compatible with surfaces being joined and installed per manufacturer's specifications.
3. Installation: The membrane shall be placed under the entire soil-contact area of the floor in a manner that minimizes the required number of joints and seams. Care shall be taken to prevent damage to the membrane during the construction process.
4. Seams. Seams between portions of the membrane shall be lapped a minimum of 12 inches (305 mm) and shall be secured in place with a continuous band of tape or mastic centered over the edge of the top membrane.
5. Slab edges and joints. The membrane shall fully cover the soil beneath the building floor. Where the slab edge is cast against a foundation wall or grade beam, the membrane shall contact the foundation element, and shall not extend vertically into the slab more than one inch.
6. Penetrations, punctures, cuts and tears. At all points where pipes, conduits, stakes, reinforcing bars or other objects pass through the membrane, the membrane shall be fitted to within ½ inch (12.7 mm) of the penetration and sealed to the penetration. Penetrations may be sealed with either mastic or tape. When necessary to meet this requirement, a second layer of the membrane, cut so as to provide a minimum 12 inches (305 mm) lap on all sides, shall be place over the object and shall be sealed to the membrane with a continuous band of tape.
7. Repairs. Where portions of an existing slab have been removed and are about to be replaced, a membrane shall be carefully fined to the opening and all openings between the membrane and the soil closed with tape or mastic.

2.2 Floor slab-on-grade buildings.
A. General. All concrete slabs supported on soil and used as floors for conditional space or enclosed spaces connected or adjacent to a conditioned space shall be constructed in accordance with the provisions of Sections 2.01 and 2.02.
1. Slab edge detail. Slabs and foundations shall be constructed using a slab edge detail that eliminates cracks that could connect the house interior to subslab soil and is consistent with other construction constraints such as terrain. Monolithic slab construction should be used where possible. Only the following slab edge detail options may be used.
a. Thickened edge monolithic. The subslab membrane shall extend beyond the outside face of the slab edge.
b. Slab poured into the stem wall. Where concrete blocks are used as slab forms, the subslabmembrane shall extend horizontally at least one inch (25.4 mm) into the stem wall, but shall not extend upward along any vertical faces of the stem wall. The concrete slab shall be poured into the stem wall to completely fill its open volume to form a continuous and solid stem wall cap of minimum 8-inch (203 mm) thickness. Framed exterior walls shall be sealed or gasket to the slab..
c. Slab capping stem wall. Where the floor slab is formed and placed to completely cover the stem wall, the subslab membrane shall extend horizontally beneath the slab to its outer edge. The supporting stem wall shall be capped with a solid masonry unit of at least 4-inch (102 mm) thickness beneath the membrane and the slab.
2. Sealing joints, penetrations and cracks in slabs.
a. Contraction joints. All contraction joints shall be cleaned and sealed against soil-gas entry by use of an approved sealant (see Section B303.6), applied according to the manufacturer's instructions. (Note most sealants require the concrete to be cured and dried.) For bottom-induced joints, inverted T-split ribbed waterstops at least 6-inches (152 mm) wide made of impermeable material may be formed into the slab and shall not require top-surface sealing for radon control.
b. Horizontal joints. Horizontal joints between two slabs of different elevations that are poured at different times shall provide horizontal contact between the two slabs that is at least 8-inches (203 mm) wide, or shall be sealed by an approved sealant.
c. Vertical joints through slabs. Vertical joints through slabs shall be formed with a recess of not less than ¼ inch by ¼ inch (6.4 mm by 6.4 mm) and sealed with an approved sealant. Exception: Slab-edge vertical joints occurring in slab poured into stem wall construction. The sealant shall be applied according to the manufacturer's instructions. (Note: most sealants required the concrete to be cured and dried.)
d. Penetrations. Stake penetrations. Any stake that extends through more than one-fourth the thickness of the slab shall be of a nonporous material resistant to decay, corrosion and rust, and shall be cast tightly against the slab, or sealed to the slab in accordance with Section B303.6. All stakes shall either be solid, or shall have the upper end tightly sealed by installation of an end cap designed to provide a gas-tight seal.
e. Work spaces. Work spaces formed into a slab, such as beneath a shower or bath tub drain, shall be sealed gas tight. The exposed soil shall be compacted and then shall be fully covered with a solvent-based plastic roof cement or a foamed-in place polyurethane sealant or other approved elastomeric material to a minimum depth of 1 inch (25.4 mm).
f. Pipe penetrations. Plastic pipes shall be in contact with the slab along the slab's depth by casting the concrete tightly against the pipe. Where pipes are jacketed by sleeves they shall be sealed by one of the following methods: Formation of a slot in the slab around the pipe and casting with asphalt or an approved sealant from the slab to a point above the sleeve; Seal the space between the sleeve and the pipe with an appropriate joint sealant; Pipes and wiring penetrating the slab through chases or conduit shall be sealed by placing an approved sealant between the pipe or wiring and chase or conduit. Plastic sheath, foam or insulation material shall not be used alone around pipes or conduit for sealing purposes; or Where multiple pipes are ganged, block out a work space around the multiple pipes and seal.
3. Cracks: All slab cracks greater than 1/32 inch (0.8 mm) wide; all cracks that exhibit vertical displacement; all cracks that connect weakened zones in the slab such as vertical penetrations or re-entrant corners; and, all cracks that cross changes in materials or planes in the structure, shall be cleaned and sealed against radon entry, prior to applying floor covering, with a flexible field-molded elastomeric sealant installed in accordance with Section B303.6. Cracks less than 1/32 inch (0.8 mm) in width that do not meet any of the above criteria may be left unsealed.
B. Concrete for slabs.
1. Mix design. Mix designs for all concrete used in the construction of slab-on-grade floors shall specify a minimum design strength of 3,000 psi (20.7 MPa) at 28 days and a design slump not to exceed 4 inches (102 mm). On-site slumps shall not exceed 5 inches (127 mm), provided total water added to the mix including plant, transit and site added water does not exceed the following parameters.
a. For mixes using natural sands: 275 pounds per cubic yard [33 gallons (125 L)].
b. For mixes using manufactured sands: 292 pounds per cubic yard [35 gallons (132.5 L)].
2. Concrete placement. For improved workability of concrete used in the construction of slab-on grade floors, additional water and/or water-reducing admixtures shall be wed within the following constraints: 1. Slumps in excess of 5 inches (127 mm) shall be achieved through the use of midrange or high range water reducing admixtures.
Water shall not be used in excess of the limitations. Slumps of concrete containing midrange or high range water reducing admixtures shall not exceed 8 inches (203 mm).
3. Curing: Concrete slabs shall be cured continuously after pouring according to one of the following procedures.
a. Moist curing by means of ponding, fog spray or wet burlap for at least seven days.
b. Moist curing using impermeable cover sheet materials conforming with ASTM C 171 for at least seven days.
c. Curing with liquid membrane forming compound according to the manufacturer's specifications and conforming with ASTM C 309.
d. Curing compounds shall be compatible with materials specified in Approved sealant section.
4. Loading. Loading or use of the slab shall be delayed for a minimum of 48 hours after concrete placement. When the slab is used for material storage after the minimum 48-hour period, caution should be used to prevent impact loading.
5. Slab reinforcement. Floor slabs shall be reinforced by steel reinforcing bars at reentrant corners such as inside corners of a L-shaped slab. Reentrant corners shall have two pieces of #4 reinforcing bar 36 inches (914 mm) long place diagonally to the corner, 12 inches (305 mm) apart, with the first bar placed 2 inches (51 mm) from the corner. All reinforcement shall be appropriately positioned in the upper third of the slab.
C. Sealing wals. Penetrations for electrical receptacles and switches, wiring, plumbing, etc. in the interior surface of the concrete block walls shall be sealed.
D. Approved sealant material. Acceptable polyurethane, polysulfide and epoxy caulks and sealants shall conform with ASTM C 920-87, Standard Specifications for Elastomeric Joint Sealants, and ASTM C 1193-91, Standard Guide for Use of Joint Sealants. Sealant material and the method of application shall be compatible with curing compounds, admixtures and floor finishing materials; withstand light traffic; be impermeable to soil gas; and have an allowable extension and compression of at least 25 percent with 100 percent recovery. Sealants shall be applied to dried and cured concrete in accordance with manufacturer's instructions. Backer rods may be used to support sealants in cracks and joints.

2.3 SPACE CONDITIONING SYSTEMS
A. Equipment enclosures.
1. Crawl spaces. Return ducts, return plenums and air handlers shall not be located in crawl spaces. Crawl spaces shall not be used as supply or return plenums.
2. Condensate drains, piping and wiring Condensate drain pipe joints shall be sealed (chemical weld, soldered, etc.) gas tight and shall terminate outside the building perimeter at a height of at least 6 inches (152 mm) above the finished grade ground level. Chases through which the condensate and refrigerant lines run shall not terminate in the return sections of the air distribution system. Where chase lines terminate within the house or garage, they shall be sealed.
B. Air distribution systems.
1. Sealing. All ducts and plenums shall be made air tight, constructed and installed in accordance with the current edition of Chapter 13 of the Florida Building Code, Building for building construction. Where rigid fibrous glass ductboard is used, the seal must be on the foil air barrier side of the ductboard.
2. Return plenums and ducts. Return air shall be separated from any floor that is in contact with the soil or crawl space, by a plenum or duct fabricated in compliance with Section B3077.2.1 and all local codes. Construction of the return plenum or duct shall provide a continuous air barrier that completely separates the depressurized plenum or duct from adjacent building components including but not limited to floors, walls, chases, enclosures, etc. The support platform shall not be used as a return plenum. Where the support platform provides a protective enclosure for a duct, one side shall have a removable panel or door to provide access for inspection and/or repair of the duct and duct-to-air handler connection. Ducts shall carry the return air from the return grills or return plenums to the air handler and shall have a positive air-tight seal to the air handler. A closet shall not be used as a return plenum.
3. Return grille connection. The return pathway from the return grille shall be a part of the return duct or plenum and shall have a continuous air barrier along its boundary. Where the return pathway passes through a wall cavity, the cavity shall be sealed around the duct in all directions to prevent the leakage of air into the return air stream.
4. Location of ducts and plenums. Supply and return ducts shall not be located below concrete slab on grade floors, and return ducts and plenums shall not be located in crawl spaces.
C. Exhaust Fans.
1. Bathroom fans. Bathroom exhaust fans shall be controlled by an independent separate switch. Manually operated timers should be used as applicable.

END OF SECTION

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NEW OFFICE BUILDING
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FLORIDA, 33716

No.	Date	Revision

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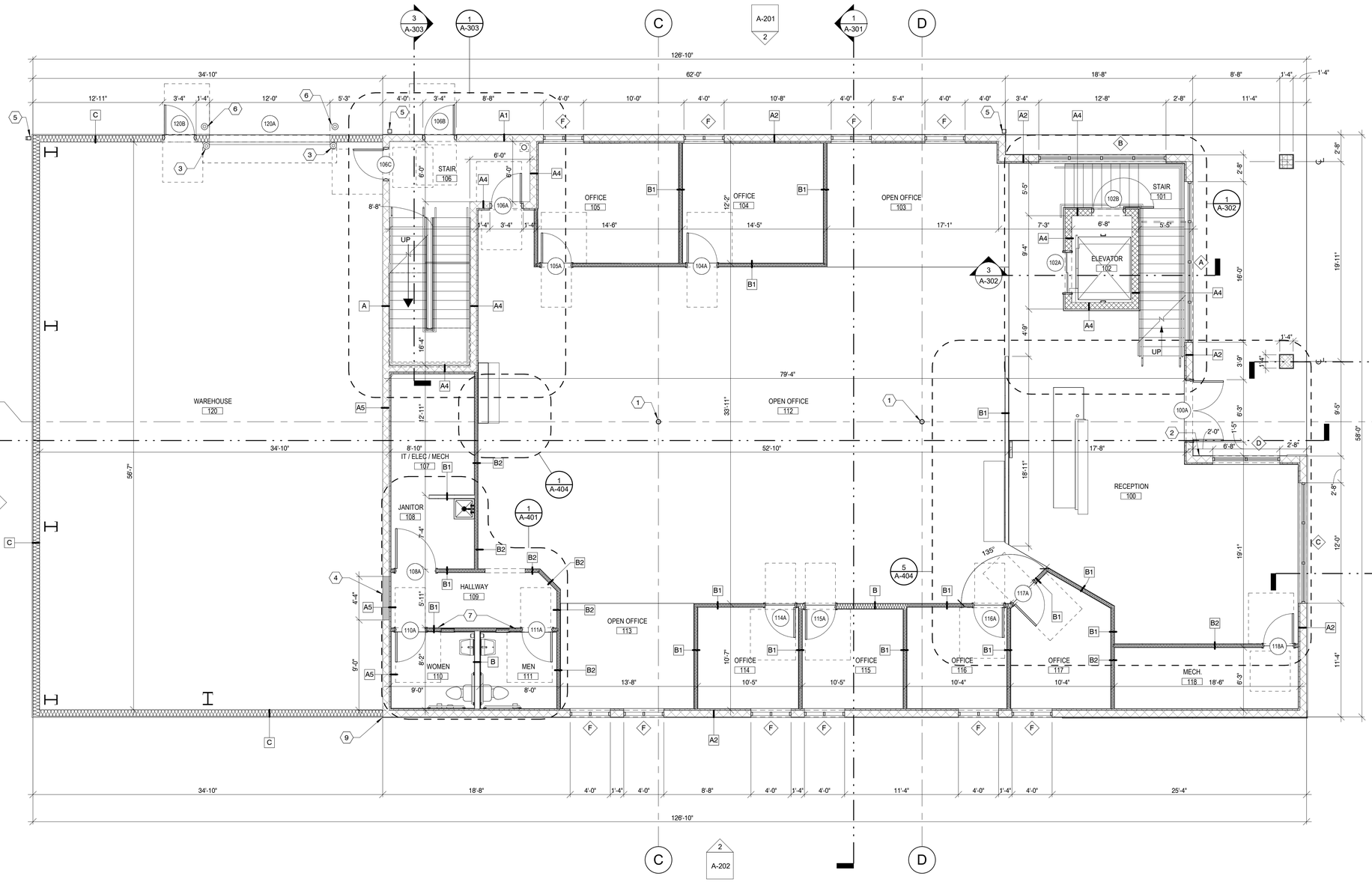
DRAWN BY:	JG/NP
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ARCHITECTURAL SPECIFICATIONS

SHEET NO:
G-024



1 FLOOR PLAN - FIRST FLOOR

3/16" = 1'-0"

GENERAL NOTES

- SEE LIFE SAFETY PLAN, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- SEE CIVIL SITE PLANS SUBMITTED SEPARATELY FOR MORE INFORMATION ON SITE AND ORIENTATION.
- PROVIDE ADA COMPLIANT DOOR THRESHOLDS AND LEVER HANDLES AT ALL DOORS.
- SEE G-003 FOR ADDITIONAL ACCESSIBILITY INFORMATION AND DETAILS ON REQUIRED CLEARANCES AND DIMENSIONS PER CURRENT FLORIDA BUILDING CODE AND ADA.
- ALL LANDINGS OR PAVED AREAS AT EXTERIOR DOORS TO SLOPE DOWN AND AWAY FROM BUILDING, SEE CIVIL PLANS FOR SLOPES.
- PROVIDE BLOCKING IN WALLS AS NEEDED FOR WALL MOUNTED FIXTURES AND ACCESSORIES.
- SEE ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS, AND ARCHITECTURAL SPECIFICATIONS FOR MORE INFO ON RESTROOM ACCESSORIES AND REQUIREMENTS FOR ADA COMPLIANCE.
- STRUCTURE TO BE A PRE-ENGINEERED METAL BUILDING (PEMB) BY PEMB COMPANY. COLUMNS SHOWN FOR REFERENCE ONLY. SEE PEMB DRAWINGS FOR ADDITIONAL INFORMATION. GENERAL CONTRACTOR TO COORDINATE WITH PEMB COMPANY. PROVIDE FINAL SHOP DRAWINGS FOR REVIEW BY ARCHITECT PRIOR TO FABRICATION.
- DIMENSIONS ARE TO FACE OF CMU OR STUD, OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.

SHEET NOTES

1. STRUCTURAL COLUMN. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
2. KNOX BOX. SEE SPECIFICATIONS.
3. INTERIOR BOLLARD. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION. COORDINATE WITH OVERHEAD DOOR EQUIPMENT PRIOR TO INSTALLATION. KEEP PROPER PUSH/PULL CLEARANCES AS SHOWN ON FLOOR PLAN.
4. PROVIDE CMU "KNOCK-OUT WALL" WITH LINTEL ABOVE TO ALLOW FOR FUTURE 7'-4" HIGH ROUGH OPENING, SEE STRUCTURAL FOR MORE INFORMATION.
5. GUTTER DOWN SPOUT. SEE ROOF PLAN AND CIVIL DRAWINGS.
6. EXTERIOR BOLLARD - SEE CIVIL DRAWINGS FOR MORE INFORMATION
7. TYPICAL. PROVIDE RESTROOM AND BUILDING SIGNAGE AS REQUIRED. SEE G SHEETS FOR SIGNAGE DETAILS
8. PROVIDE R-30 INSULATION IN FLOOR SPACE ABOVE COVERED ENTRY (HATCH AREA)
9. PEMB TO STUCCO TRANSITION STRIP, PROVIDED BY PEMB MANUFACTURER
10. OWNER PROVIDED FUTURE BUILT-IN LOCKERS

WALL TYPE LEGEND

- SEE WALL TYPE DETAILS, RCP AND SECTIONS FOR ADDITIONAL REQUIREMENTS AND HEIGHTS.
- PROVIDE INSULATION IN LOCATIONS SHOWN ON FLOOR PLANS.

SYMBOL	TYPE
	A
	A1
	A2
	A3
	A4
	A5
	B
	B1
	B2
	C

FLOOR PLAN LEGEND

- 1i — DOOR TAG
- 1i — WALL TAG
- 1 — WINDOW TAG

SCALE 3/16" = 1' - 0"

0 4 12

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DRAWING TITLE:
FLOOR PLAN - FIRST FLOOR

SHEET NO:
A-101

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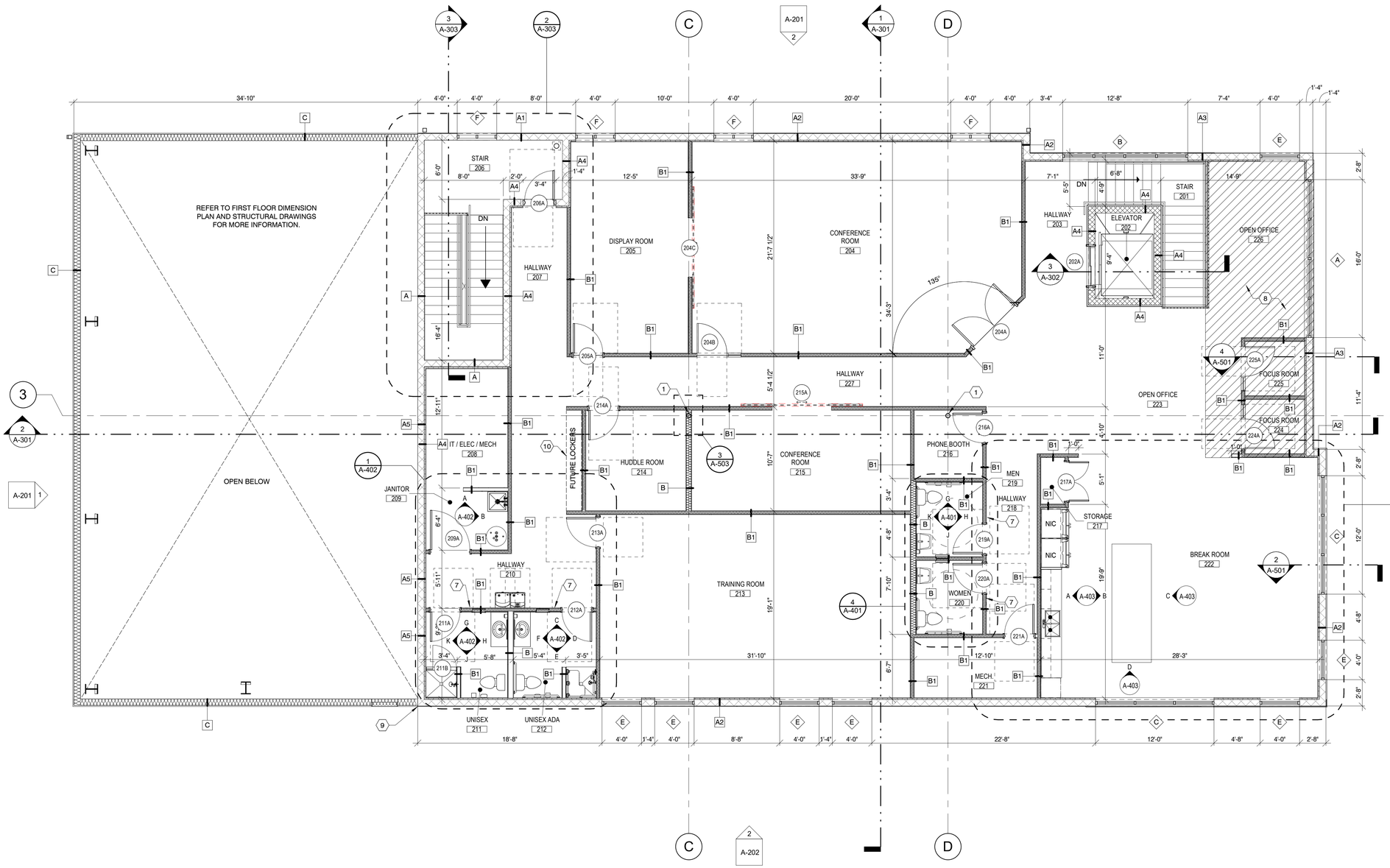

1 **FLOOR PLAN - SECOND FLOOR**

3/16" = 1'-0"

GENERAL NOTES

- SEE LIFE SAFETY PLAN, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- SEE CIVIL SITE PLANS SUBMITTED SEPARATELY FOR MORE INFORMATION ON SITE AND ORIENTATION.
- PROVIDE ADA COMPLIANT DOOR THRESHOLDS AND LEVER HANDLES AT ALL DOORS.
- SEE G-003 FOR ADDITIONAL ACCESSIBILITY INFORMATION AND DETAILS ON REQUIRED CLEARANCES AND DIMENSIONS PER CURRENT FLORIDA BUILDING CODE AND ADA.
- ALL LANDINGS OR PAVED AREAS AT EXTERIOR DOORS TO SLOPE DOWN AND AWAY FROM BUILDING, SEE CIVIL PLANS FOR SLOPES.
- PROVIDE BLOCKING IN WALLS AS NEEDED FOR WALL MOUNTED FIXTURES AND ACCESSORIES.
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SHEET NOTES

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2. KNOX BOX. SEE SPECIFICATIONS.
3. INTERIOR BOLLARD. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION. COORDINATE WITH OVERHEAD DOOR EQUIPMENT PRIOR TO INSTALLATION. KEEP PROPER PUSH/PULL CLEARANCES AS SHOWN ON FLOOR PLAN.
4. KNOCKOUT WALL FOR FUTURE OPENING DOOR SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
5. GUTTER DOWN SPOUT. SEE ROOF PLAN AND CIVIL DRAWINGS.
6. EXTERIOR BOLLARD - SEE CIVIL DRAWINGS FOR MORE INFORMATION.
7. TYPICAL, PROVIDE RESTROOM AND BUILDING SIGNAGE AS REQUIRED. SEE G SHEETS FOR SIGNAGE DETAILS.
8. PROVIDE R-30 CLOSED CELL SPRAY FOAM INSULATION IN FLOOR SPACE ABOVE COVERED ENTRY (HATCH AREA).
9. PEMB TO STUCCO TRANSITION STRIP, PROVIDED BY PEMB MANUFACTURER.
10. OWNER PROVIDED FUTURE BUILT-IN LOCKERS.

WALL TYPE LEGEND

- SEE WALL TYPE DETAILS, RCP AND SECTIONS FOR ADDITIONAL REQUIREMENTS AND HEIGHTS.
- PROVIDE INSULATION IN LOCATIONS SHOWN ON FLOOR PLANS.

SYMBOL	TYPE
	A
	A1
	A2
	A3
	A4
	A5
	B
	B1
	B2
	C

FLOOR PLAN LEGEND

- 1i — DOOR TAG
- 1i — WALL TAG
- 1 — WINDOW TAG

N

SCALE 3/16" = 1' - 0"

0 4 12

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FLOOR PLAN - SECOND FLOOR

SHEET NO:
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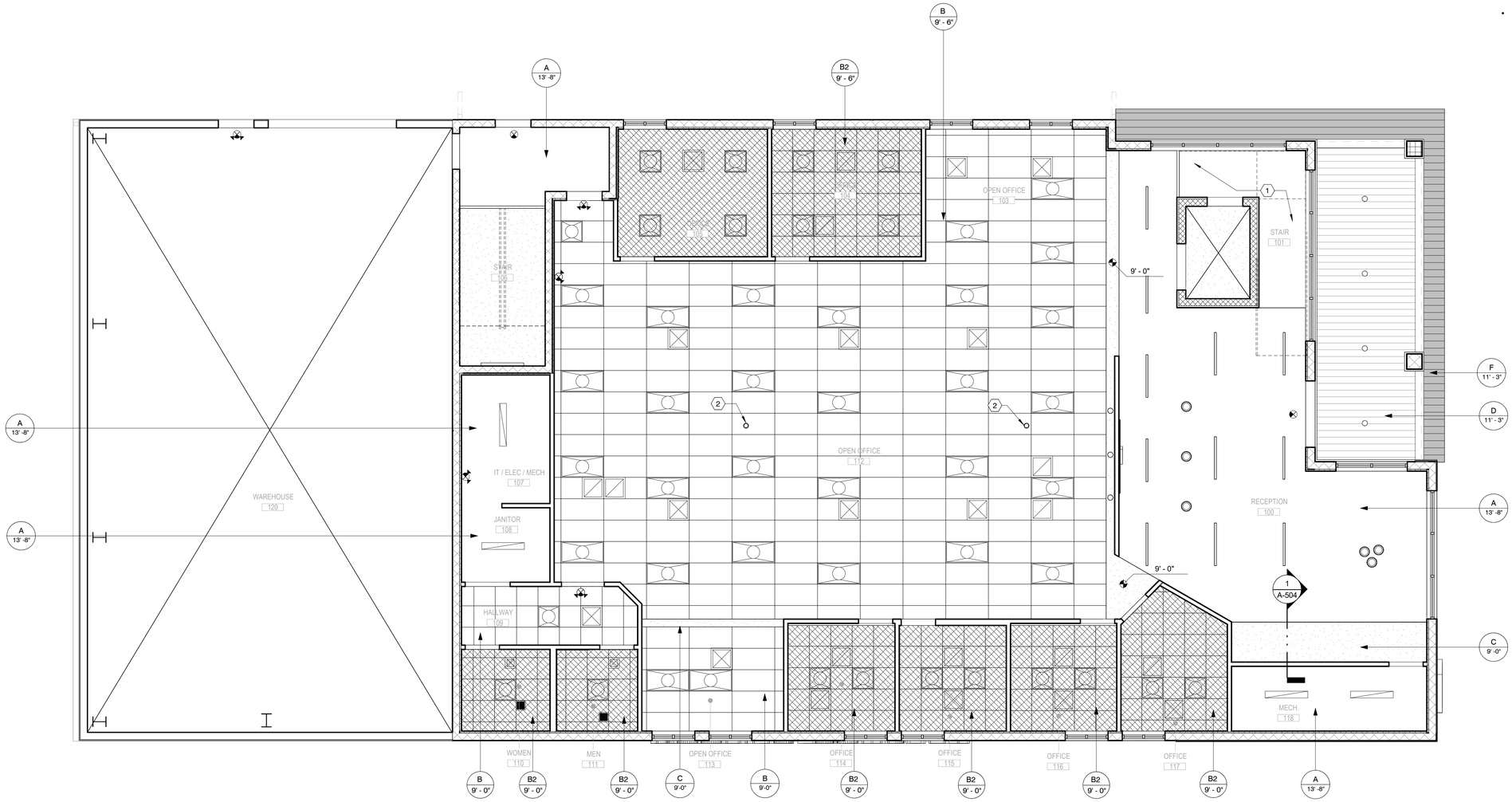

1 **REFLECTED CEILING PLAN - FIRST FLOOR**

3/16" = 1'-0"

GENERAL NOTES

- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- DIMENSIONS ON THIS SHEET SHOWN TO FINISHED FACE U.N.O.
- PROVIDE IC RATED LIGHT FIXTURES AS NEEDED IN CEILINGS WITH INSULATION
- PROVIDE MOISTURE RESISTANT GYP BOARD IN ALL RESTROOM CEILING

CEILING LEGEND

X — CEILING TYPE
X' - X" — CEILING HEIGHT A.F.F.

A	OPEN TO STRUCTURE ABOVE
B	ACOUSTICAL CEILING TILE (SEE PLAN FOR SIZES)
B2	ACOUSTICAL CEILING TILE WITH 3 1/2" SOUND ATTENUATION BATTS
B3	ACOUSTICAL CEILING TILE - BLACK (SEE FINISH SCHEDULE)
C	GYPSUM BOARD (SEE FINISH SCHEDULE)
C2	MOISTURE RESISTANT GYPSUM BOARD WITH 3 1/2" SOUND ATTENUATION BATTS
D	FRAMED FAUX WOOD SOFFIT
E	NON VENTED ROOF SOFFIT
F	ALUMINUM METAL AWNING
G	1- HR FIRE RATED CEILING (UL465)

LIGHT FIXTURES

- 6" RECESSED CAN LIGHT FIXTURE
- RECTANGLE PENDENT LIGHT FIXTURE
- 2' X 4' LAY-IN TROFFER LIGHT FIXTURE
- 2' X 2' LAY-IN TROFFER LIGHT FIXTURE
- ROUND PENDENT LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- 1' X 4' LIGHT FIXTURE

HVAC LEGEND

RETURN

SUPPLY

EXHAUST

SHEET NOTES

1. OPEN TO ABOVE
2. STRUCTURAL COLUMN, SEE STRUCTURAL DRAWINGS.

N

SCALE 3/16" = 1' - 0"
0 4 12

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SHEET NO:
AC-101

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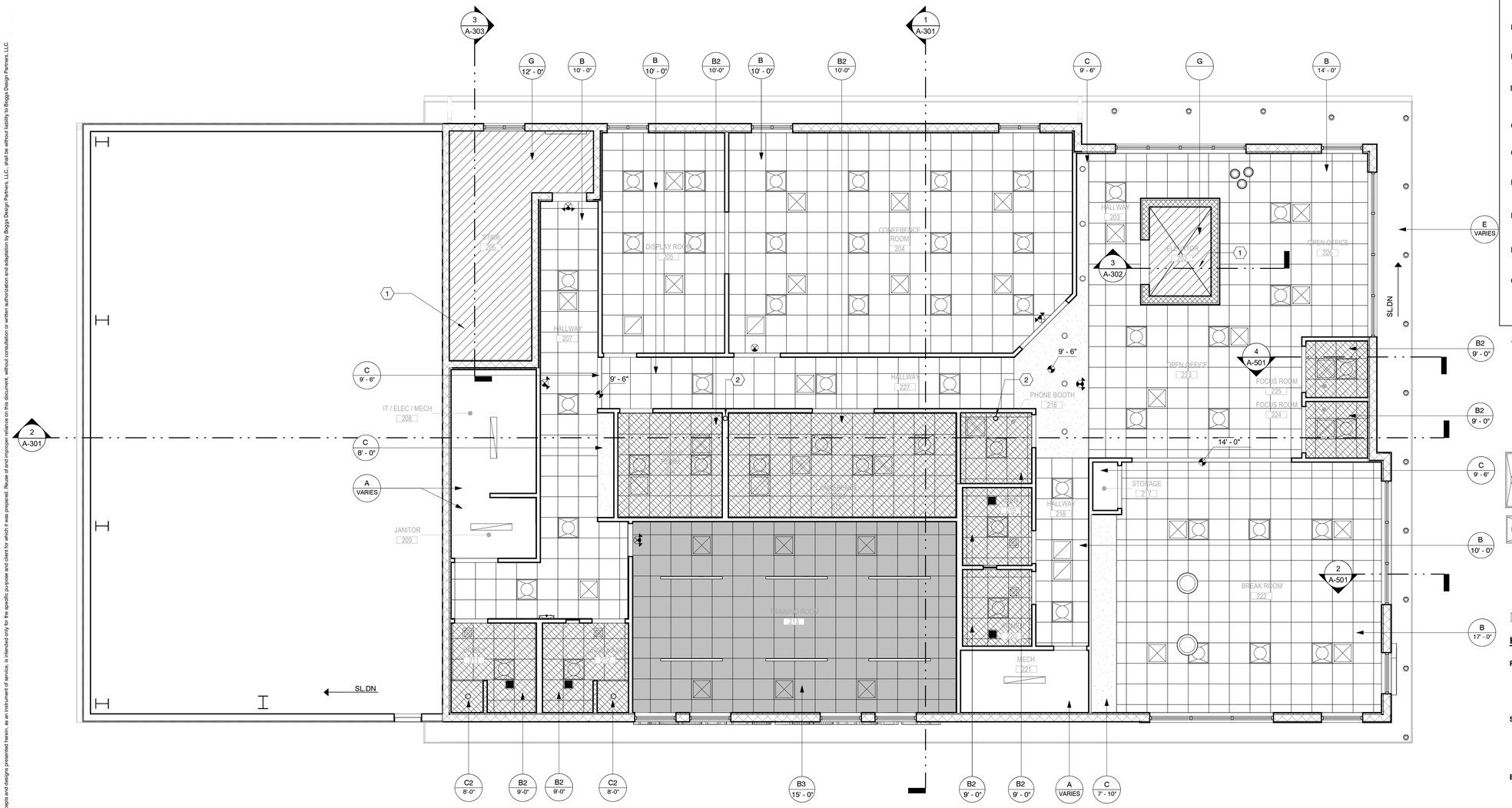

1 REFLECTED CEILING PLAN - SECOND FLOOR

3/16" = 1'-0"

GENERAL NOTES

- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- DIMENSIONS ON THIS SHEET SHOWN TO FINISHED FACE U.N.O.
- PROVIDE IC RATED LIGHT FIXTURES AS NEEDED IN CEILINGS WITH INSULATION
- PROVIDE MOISTURE RESISTANT GYP BOARD IN ALL RESTROOM CEILING

CEILING LEGEND

X — CEILING TYPE
X' - X" — CEILING HEIGHT A.F.F.

A	OPEN TO STRUCTURE ABOVE
B	ACOUSTICAL CEILING TILE (SEE PLAN FOR SIZES)
B2	ACOUSTICAL CEILING TILE WITH 3 1/2" SOUND ATTENUATION BATTS
B3	ACOUSTICAL CEILING TILE - BLACK (SEE FINISH SCHEDULE)
C	GYPSUM BOARD (SEE FINISH SCHEDULE)
C2	MOISTURE RESISTANT GYPSUM BOARD WITH 3 1/2" SOUND ATTENUATION BATTS
D	FRAMED FAUX WOOD SOFFIT
E	NON VENTED ROOF SOFFIT
F	ALUMINUM METAL AWNING
G	1- HR FIRE RATED CEILING (UL465)

LIGHT FIXTURES

- 6" RECESSED CAN LIGHT FIXTURE
- RECTANGLE PENDENT LIGHT FIXTURE
- 2' X 4' LAY-IN TROFFER LIGHT FIXTURE
- 2' X 2' LAY-IN TROFFER LIGHT FIXTURE
- ROUND PENDENT LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- 1' X 4' LIGHT FIXTURE

HVAC LEGEND

RETURN

SUPPLY

EXHAUST

SHEET NOTES

1. ONE (1) HOUR RATED CEILING ASSEMBLY, SEE UL SHEETS.
2. STRUCTURAL COLUMN. SEE STRUCTURAL DRAWINGS.

SCALE 3/16" = 1' - 0"
0 4 12

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DATE:
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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP/MM
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
REFLECTED CEILING PLAN - SECOND FLOOR

SHEET NO:
AC-102

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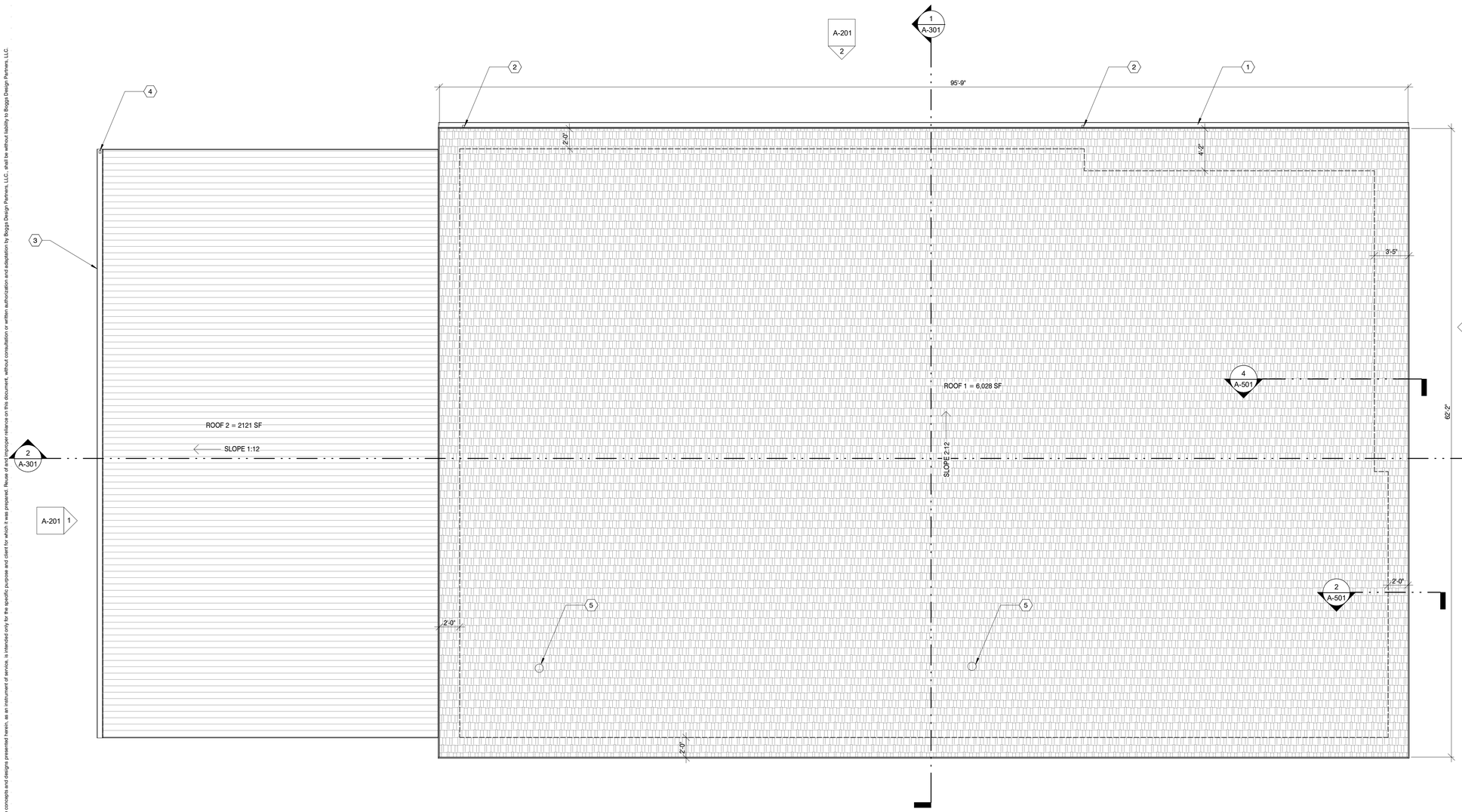

1 **ROOF PLAN**

3/16" = 1'-0"

2
A-202

GENERAL NOTES.

- ALL GUTTERS TO BE COMPATIBLE WITH ROOF SYSTEM.
- CONTRACTOR TO COORDINATE ALL MECHANICAL EQUIPMENT LOCATIONS WITH FINAL TRUSS LAYOUT TO AVOID CONFLICTS. SEE STRUCTURAL AND MECHANICAL PLANS.
- PROVIDE APPROPRIATE FLASHING AND UNDERLAYMENT DETAILING FOR ALL ROOF PENETRATIONS PER ROOFING MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
- CONTRACTOR TO INSTALL PER MANUFACTURER'S DETAILS AND FLORIDA PRODUCT APPROVALS DETAILS.

SHEET NOTES

1 CONTINUOUS 4 1/2" X 6" GUTTER TO MATCH METAL.
2 4 1/2" X 4 1/2" DOWN SPOUT.
3 CONTINUOUS 6" X 6" GUTTER BY PEMB COMPANY TO MATCH METAL TO PEMB.
4 4 1/2" X 4 1/2" DOWN SPOUT BY PEMB COMPANY TO MATCH METAL TO PEMB.
5 VENT THRU ROOF - SEE PLUMBING DRAWINGS

ROOF LEGEND

ARCHITECTURAL ASPHALT ROOF SHINGLE

EXPOSED FASTENER METAL ROOF (BY PEMB COMPANY)

SLOPE X:12 ROOF SLOPE

ROOF DRAINAGE CALCULATIONS
(PER FBC-P 1106)

RAINFALL RATE: RxAx0.0104 = GPM

AREA 1 (UPPER ASPHALT SHINGLE ROOF) = 6,164 SF
AREA 2 (PEMB ROOF) = 2,121 SF

R (100-YR RAINFALL INTENSITY/HR) = 5.6 IN/HR

VERTICAL LEADER (VL) = 3

AREA 1 - ASPHALT SHINGLE ROOF

5.6 IN/HR x 6,164 SF x 0.0104 = 288.5 GPM
MIN SIZE GUTTER REQUIRED = 4.5" X 6"
GUTTER SIZE PROVIDED = 4.5" X 6"

288.5 / 2 (VERTICAL LEADERS) = 144.25 GPM
MIN SIZE LEADERS REQUIRED = (2) 4.5" X 4.5"
LEADER SIZE PROVIDED = (2) 4.5" X 4.5"

AREA 2 - PEMB ROOF

4.5 IN/HR x 2,121 SF x 0.0104 = 99.2 GPM
MIN SIZE GUTTER REQUIRED = 4" X 2.5"
GUTTER SIZE PROVIDED = 6" X 6"

99.2 GPM /(1) GUTTER (VERTICAL LEADERS) = 99.2 GPM
MIN SIZE LEADERS REQUIRED = (1) 4 1/2" X 4 1/2"
LEADER SIZE PROVIDED = (1) 4.5" X 4.5"

N

SCALE 3/16" = 1' - 0"
0 4 12

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
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DATE: 5/30/2025
DESIGNED BY: EAC/NP/MM
DRAWN BY: JG
CHECKED BY: EAC/NP/MM

DRAWING TITLE:
ROOF PLAN AND DETAILS

SHEET NO:
AR-101

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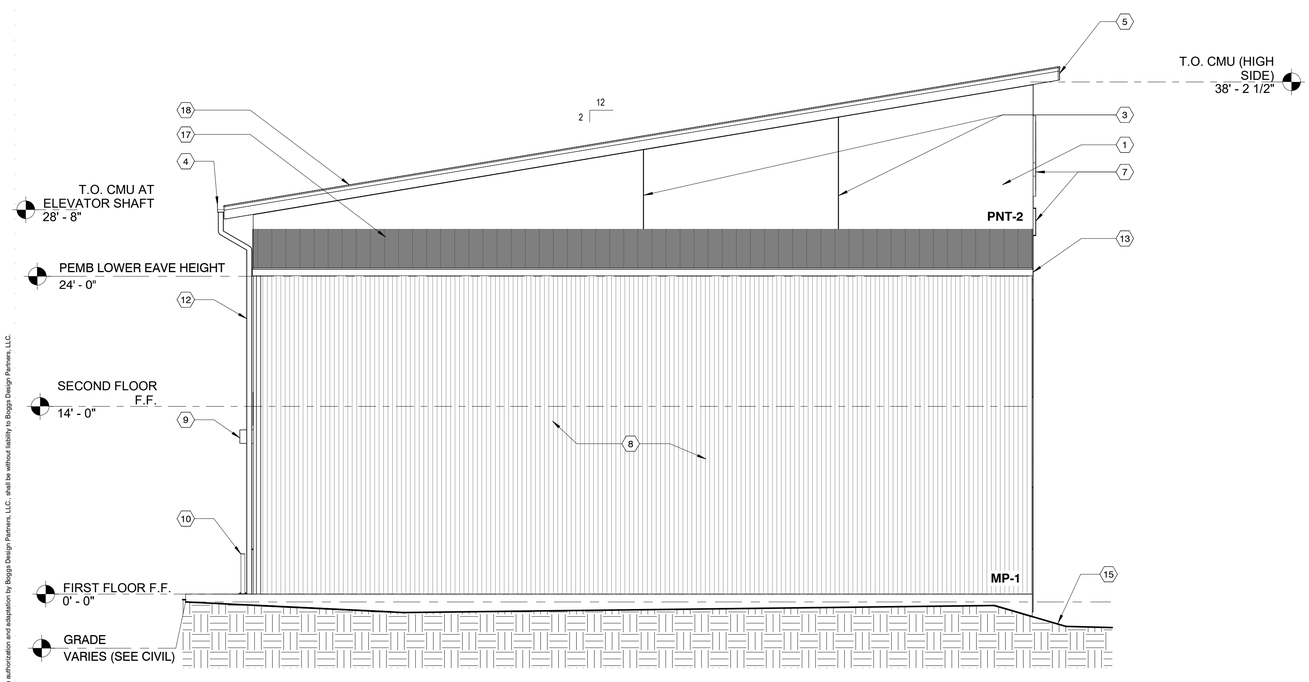
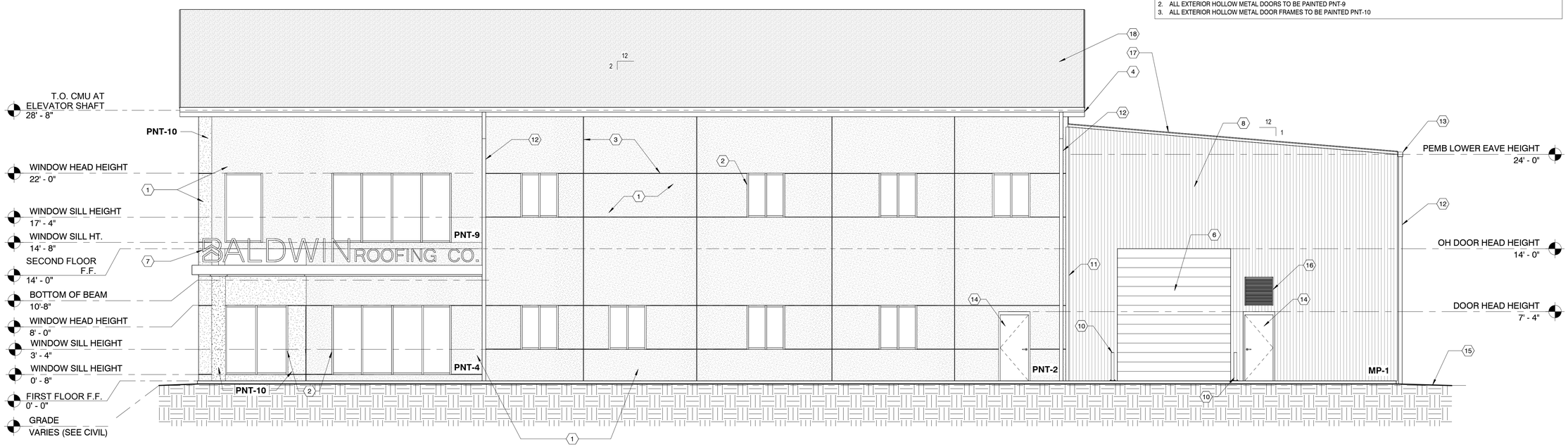


1 **SOUTH WEST ELEVATION**

3/16" = 1'-0"



2 **NORTH WEST ELEVATION**

3/16" = 1'-0"

GENERAL NOTES

- ALL EXTERIOR WALLS TO BE PAINTED PNT-2, UNLESS NOTED OTHERWISE
- ALL DIMENSIONS ARE TO FACE OF STUD OR CMU, UNLESS NOTED OTHERWISE.
- SEE STRUCTURAL DRAWINGS AND ROOF PLAN FOR MORE INFORMATION.
- ALL EXTERIOR COLORS TO BE APPROVED BY OWNER PRIOR TO ORDERING .
- SEE EXTERIOR FINISH SCHEDULE FOR MORE INFORMATION.

SHEET NOTES

1. PAINTED STUCCO ON CMU, TYP. SEE SECTIONS AND DETAILS FOR MORE INFO.
2. ALUMINUM STOREFRONT WINDOW, TYP. INSTALL PER FLORIDA PRODUCT APPROVAL REQUIREMENTS.
3. STUCCO CONTROL JOINT, TYP.
4. CONTINUOUS GUTTER. SEE ROOF PLAN.
5. METAL FASCIA. SEE TYPICAL ROOF DETAILS FOR MORE INFORMATION.
6. MANUAL ROLL-UP DOOR. SEE DOOR SCHEDULE AND ARCHITECTURAL SPECIFICATIONS.
7. BUILDING SIGNAGE BY OTHERS, SIGNAGE CONTRACTOR TO SUBMIT SEPARATELY FOR PERMIT. DESIGN IS SCHEMATIC AND FINAL DESIGN IS TO BE BY SIGNAGE COMPANY.
8. CORRUGATED METAL PANELING BY PEMB COMPANY.
9. PRE-ENGINEERED ALUMINUM AWNING. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ARCHITECT AND ENGINEER REVIEW PRIOR TO FABRICATION AND COORDINATION WITH SIGNAGE COMPANY AS NEEDED.
10. BOLLARD, SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. PEMB TRIM AT PEMB/CMU WALL JOINT. DESIGN INTENT IS FOR METAL PANEL TO ALIGN FLUSH WITH STUCCO FINISH. DETAIL PROVIDED BY PEMB MANUFACTURER
12. DOWNSPOUT. SEE ROOF PLAN AND DETAILS FOR ADDITIONAL INFORMATION.
13. CONTINUOUS GUTTER BY PEMB COMPANY TO MATCH METAL TO PEMB.
14. HOLLOW METAL DOOR AND FRAME. SEE DOOR SCHEDULE. PROVIDE METAL FLASHING AT TOP OF DOOR FRAME FOR WEATHER PROTECTION.
15. FINISHED GRADE, SEE CIVIL PLANS
16. OUTDOOR AIR LOUVER LOCATED CENTER ABOVE DOOR , B.O. LOUVER INSTALLED 8'-0" A.F.F. SEE MECHANICAL DRAWINGS
17. METAL ROOFING BY PEMB COMPANY
18. ARCHITECTURAL SHINGLE ROOFING, SEE ARCHITECTURAL SPECIFICATIONS.

EXTERIOR FINISH LEGEND

TYPE	DESCRIPTION	MANUFACTURER	STYLE/MODEL	COLOR/FINISH	REMARKS
MP-1	PEMB METAL PANELING	DEAN STEEL	SEE ARCH SPEC	BLACK (BK) / MFG'S STANDARD FINISH	
PNT-2	EXTERIOR WALL PAINT	SHERWIN WILLIAMS	SEE ARCH SPEC	7064 PASSIVE / SEE ARCH SPEC	
PNT-4	EXTERIOR WALL PAINT	SHERWIN WILLIAMS	SEE ARCH SPEC	6787 FOUNTAIN / SEE ARCH SPEC	1
PNT-9	EXTERIOR WALL PAINT	SHERWIN WILLIAMS	SEE ARCH SPEC	7075 WEB GRAY / SEE ARCH SPEC	2
PNT-10	EXTERIOR WALL PAINT	SHERWIN WILLIAMS	SEE ARCH SPEC	6989 DOMINO / SEE ARCH SPEC	3

REMARKS

1. CONTRACTOR TO CONFIRM WITH OWNER FINAL COLOR SELECTION. OWNER MAY PREFER TO COLOR-MATCH BLUE TO COMPANY LOGO. SPECIFIED SHERWIN WILLIAMS COLOR IS CLOSEST MATCH
2. ALL EXTERIOR HOLLOW METAL DOORS TO BE PAINTED PNT-9
3. ALL EXTERIOR HOLLOW METAL DOOR FRAMES TO BE PAINTED PNT-10

SCALE 3/16" = 1' - 0"

0 4 12

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NEW OFFICE BUILDING
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FLORIDA, 33716

No.	Date	Revision

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24006

DATE: 5/30/2025
DESIGNED BY: EAC/NP
DRAWN BY: JG
CHECKED BY: EAC/NP/MM

DRAWING TITLE:
EXTERIOR ELEVATIONS

SHEET NO:
A-201

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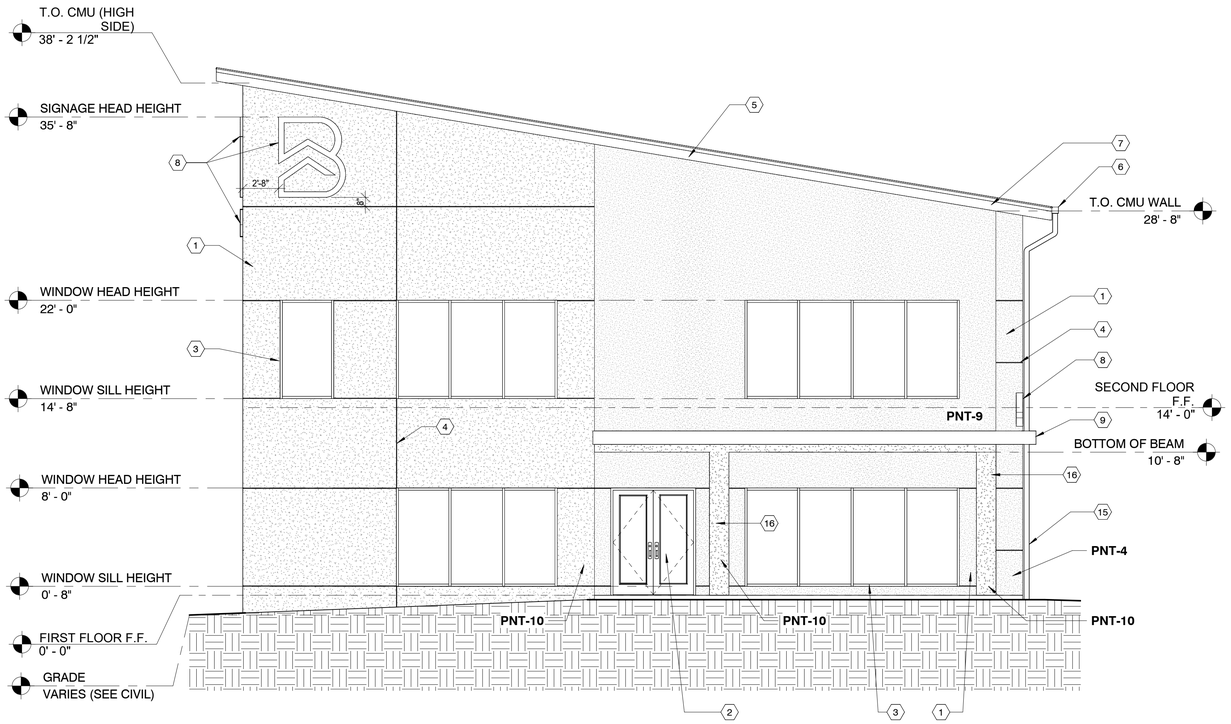
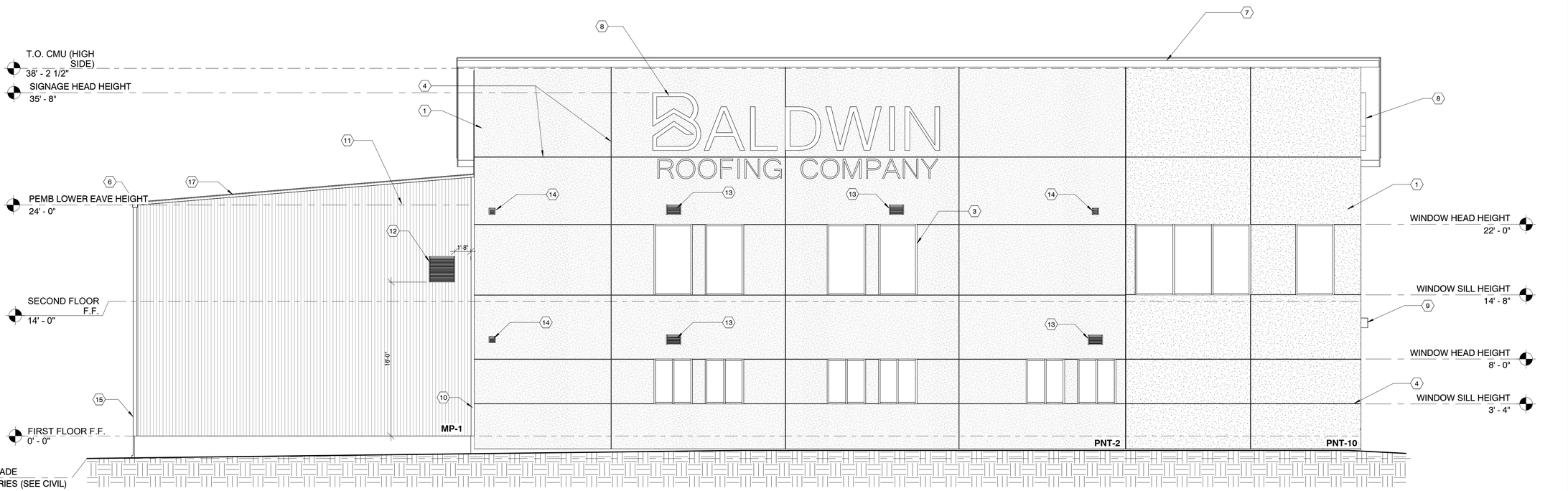


1 NORTHEAST ELEVATION

3/16" = 1'-0"



2 SOUTHEAST ELEVATION

3/16" = 1'-0"

SCALE 3/16" = 1' - 0"

0 4 12

EXTERIOR FINISH LEGEND

TYPE	DESCRIPTION	MANUFACTURER	STYLE/MODEL	COLOR/FINISH	REMARKS
MP-1	PEMB METAL PANELING	DEAN STEEL	SEE ARCH SPEC	BLACK (BK) / MFG'S STANDARD FINISH	
PNT-2	EXTERIOR WALL PAINT	SHERWIN WILLIAMS	SEE ARCH SPEC	7064 PASSIVE / SEE ARCH SPEC	
PNT-4	EXTERIOR WALL PAINT	SHERWIN WILLIAMS	SEE ARCH SPEC	6787 FOUNTAIN / SEE ARCH SPEC	1
PNT-9	EXTERIOR WALL PAINT	SHERWIN WILLIAMS	SEE ARCH SPEC	7075 WEB GRAY / SEE ARCH SPEC	2
PNT-10	EXTERIOR WALL PAINT	SHERWIN WILLIAMS	SEE ARCH SPEC	6989 DOMINO / SEE ARCH SPEC	3

REMARKS

1. CONTRACTOR TO CONFIRM WITH OWNER FINAL COLOR SELECTION. OWNER MAY PREFER TO COLOR-MATCH BLUE TO COMPANY LOGO. SPECIFIED SHERWIN WILLIAMS COLOR IS CLOSEST MATCH
2. ALL EXTERIOR HOLLOW METAL DOORS TO BE PAINTED PNT-9
3. ALL EXTERIOR HOLLOW METAL DOOR FRAMES TO BE PAINTED PNT-10

GENERAL NOTES

- ALL EXTERIOR WALLS TO BE PAINTED PNT-2, UNLESS NOTED OTHERWISE
- ALL DIMENSIONS ARE TO FACE OF STUD OR CMU, UNLESS NOTED OTHERWISE.
- SEE STRUCTURAL DRAWINGS AND ROOF PLAN FOR MORE INFORMATION.
- ALL EXTERIOR COLORS TO BE APPROVED BY OWNER PRIOR TO ORDERING .
- SEE EXTERIOR FINISH SCHEDULE FOR MORE INFORMATION.

SHEET NOTES

1 PAINTED STUCCO ON CMU, TYP. SEE SECTIONS AND DETAILS FOR MORE INFO.
2 FULL-LITE STOREFRONT DOOR INSTALL PER FLORIDA PRODUCT APPROVAL REQUIREMENTS.
3 ALUMINUM STOREFRONT WINDOW, TYP. INSTALL PER FLORIDA PRODUCT APPROVAL REQUIREMENTS.
4 STUCCO CONTROL JOINT, TYP.
5 METAL FASCIA. SEE TYPICAL ROOF DETAILS FOR MORE INFO.
6 CONTINUOUS GUTTERS, SEE ROOF PLAN.
7 ARCHITECTURAL SHINGLE ROOFING, SEE ARCH. SPECIFICATIONS
8 BUILDING SIGNAGE BY OTHERS. SUBMIT SEPERATE SIGN PERMIT. ALIGN SIGN EDGES WITH CONSTRUCTION JOINTS WHERE POSSIBLE. DESIGN IS SCHEMATIC AND FINAL DESIGN IS TO BE BY SIGNAGE COMPANY
9 PRE-ENGINEERED ALUMNIMUM AWNING. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ARCHITECT AND ENGINEER REVIEW PRIOR TO FABRICATION. AND COORDINATION WITH SIGNAGE COMPANY AS NEEDED.
10 PEMB TRIM AT PEMB/CMU WALL JOINT. DESIGN INTENT IS FOR METAL PANEL TO ALIGN FLUSH WITH STUCCO FINISH. SEE DETAIL FOR MORE INFO.

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FLORIDA, 33716

No.	Date	Revision

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DATE: 5/30/2025
DESIGNED BY: EAC/NP
DRAWN BY: JG
CHECKED BY: EAC/NP/MM

DRAWING TITLE:
EXTERIOR ELEVATIONS

SHEET NO:
A-202

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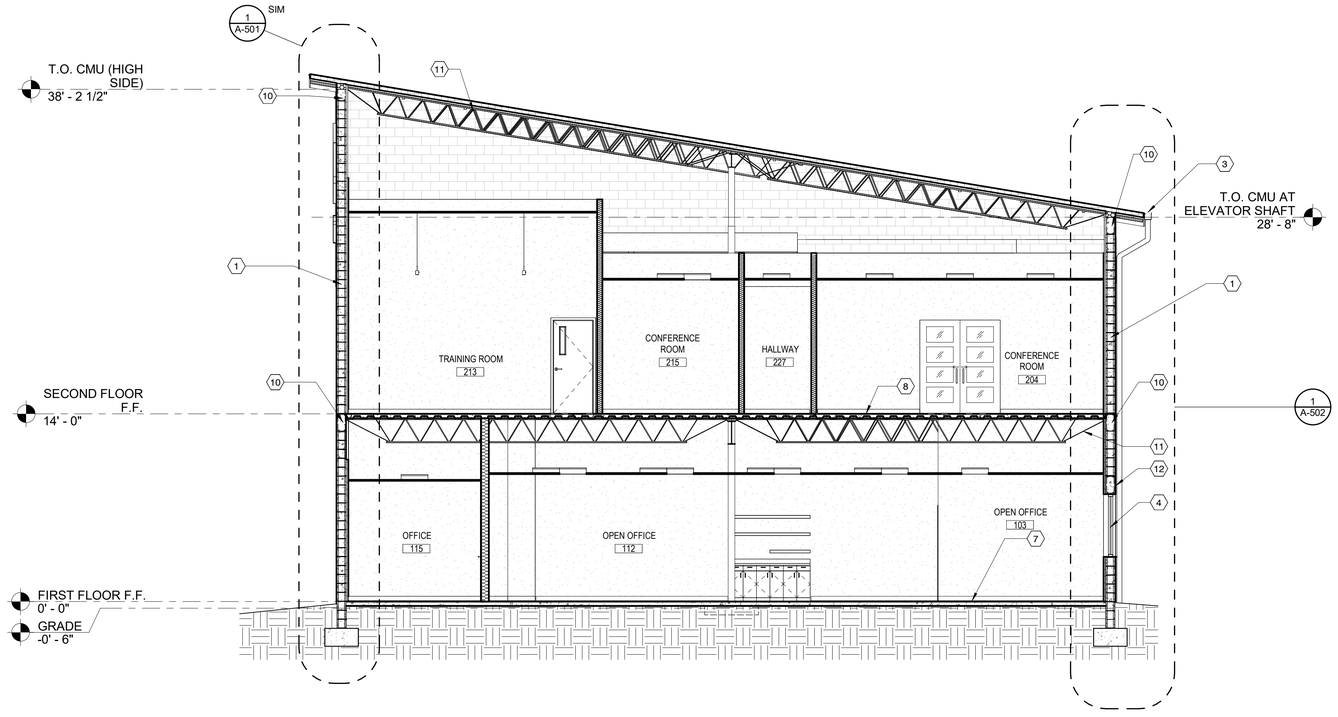
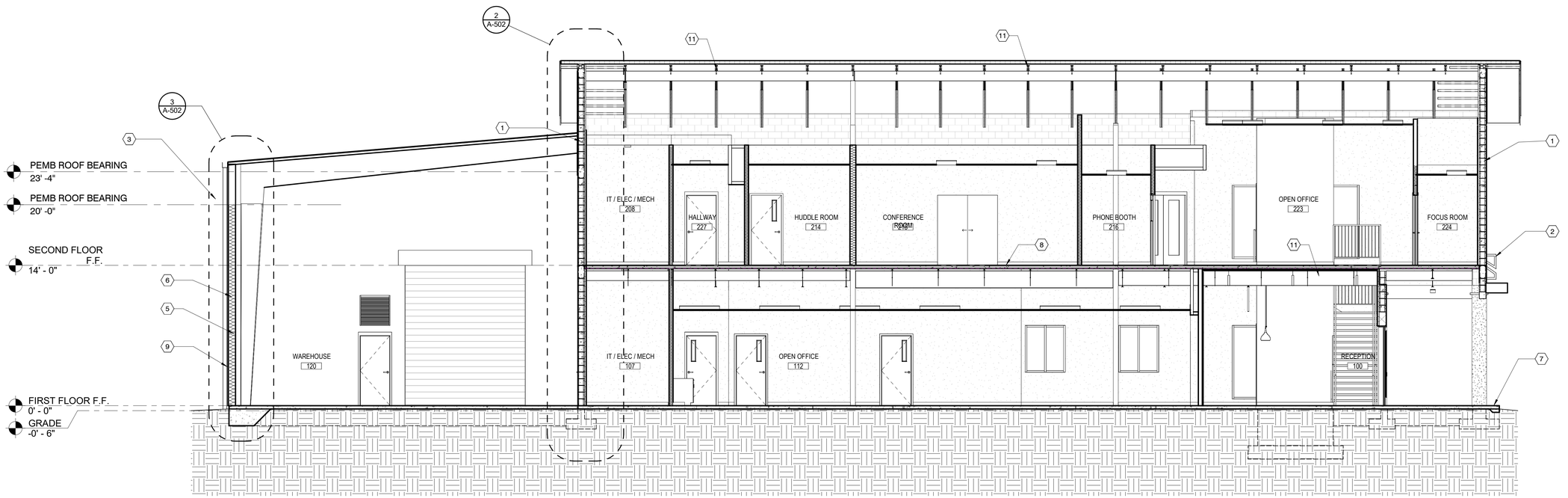


1 **BUILDING SECTION**

3/16" = 1'-0"



2 **BUILDING SECTION**

3/16" = 1'-0"

GENERAL NOTES:

- REFER TO FLOOR PLANS, ROOF PLAN, RCP, EXTERIOR ELEVATIONS, AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

SHEET NOTES

1. 8" CMU, MORTAR JOINTS TO BE STRUCK FLUSH, SEE STRUCTURAL DRAWINGS FOR GROUT AND REINFORCEMENT NOTES.
2. BUILDING SIGNAGE BY OTHER
3. CONTINUOUS 4 1/2" X 6" GUTTER. SEE ROOF PLAN..
4. ALUMINUM STOREFRONT WINDOW, TYP.
5. PEMB WALL ASSEMBLY BY PEMB CONTRACTOR
6. R-13 VINYL FACED BATT INSULATION
7. REINFORCED CONCRETE SLAB, SEE STRUCTURAL
8. COMPOSITE FLOOR DECKING, SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION
9. VERTICAL CORRAGATED METAL PANELING.
10. 8" W X 16" CONCRETE BEAM, SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
11. BAR JOIST, SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
12. PRE-CAST LINTEL, SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:

24006

DATE: 5/30/2025
DESIGNED BY: EAC/NP
DRAWN BY: JG
CHECKED BY: EAC/NP/MM

DRAWING TITLE:

BUILDING SECTIONS

SHEET NO:

A-301

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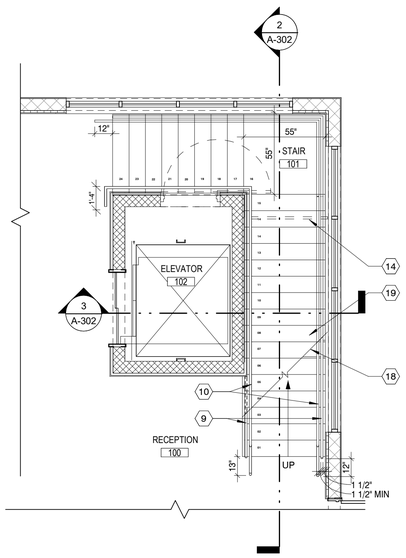
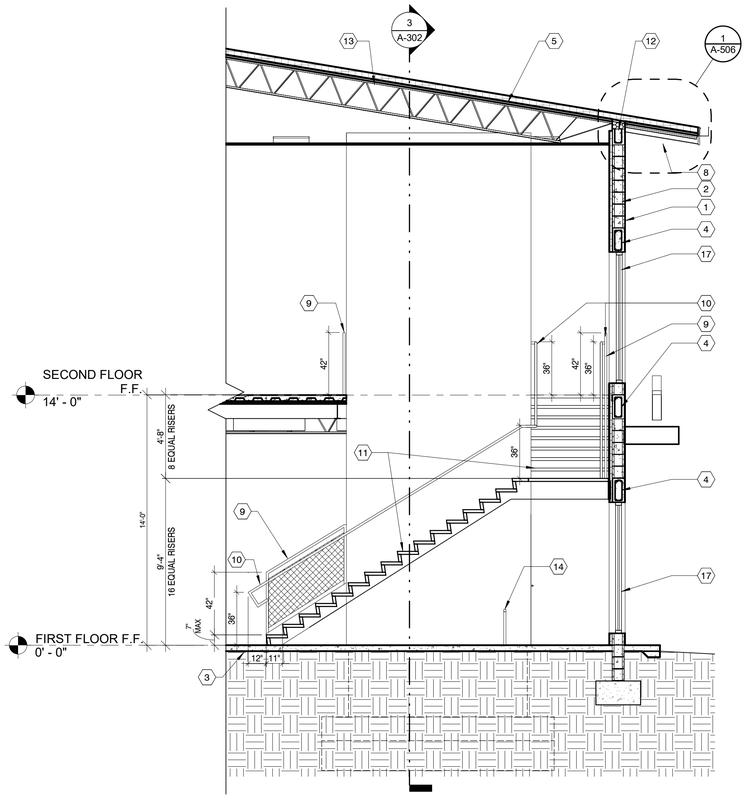


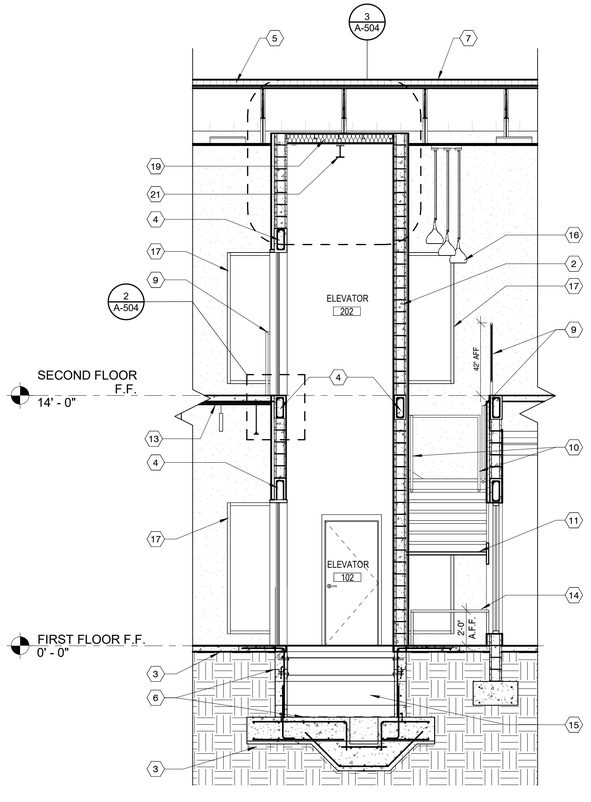
1 **ENLARGED FLOOR PLAN - STAIR 101**

1/4" = 1'-0"



2 **SECTION THROUGH STAIR**

1/4" = 1'-0"



3 **SECTION THROUGH ELEVATOR**

1/4" = 1'-0"

GENERAL NOTES:

- REFER TO FLOOR PLANS, ROOF PLAN, RCP, EXTERIOR ELEVATIONS, AND STRUCTURAL FOR ADDITIONAL INFORMATION
- ALL OPENINGS, RUNS, CLEARANCES, FLOOR TRANSITIONS, AND ELEVATOR SHAFT & STAIR DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH THE FINAL ELEVATOR AND STAIR SHOP DRAWINGS AS PROVIDED BY THE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND SHALL COORDINATE AND IMPLEMENT ANY REQUIRED ADJUSTMENTS PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ACTIVITIES.

STAIR GENERAL NOTES

- PRE-ENGINEERED STEEL STAIR MANUFACTURER TO SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND SUBMIT DRAWINGS TO BUILDING DEPT. AS REQUIRED.
- FASTENERS, CLIPS, AND FLANGES PER MANUFACTURER'S RECOMMENDATION FOR USE WITH THE RAILING SYSTEM.
- RAILINGS AND GUARDRAIL SYSTEM AND CONNECTIONS TO BE PROVIDED BY THE PRE-ENGINEERED STEEL STAIR MANUFACTURER AND COMPLY WITH FBC 2023.
- 1-1/2" MAX. DIAMETER FOR THE HANDRAIL PER FBC 2023.
- THE CLEAR SPACE BETWEEN THE WALLS, GUARDRAIL, AND THE HANDRAIL SHOULD BE 1-1/2".
- TREADS TO BE PAN FILLED, UNLESS NOTED OTHERWISE.
- RISERS TO BE CLOSED PER FBC 2023.
- STEEL STRINGERS TO BE PROVIDED BY THE PRE-ENG. STEEL STAIR MANUFACTURER.
- STAIR RAILINGS TO BE FILED PAINTED, FINAL COLOR TO BE DECIDED BY THE OWNER AND ARCHITECT.

SHEET NOTES

1. 5/8" STUCCO APPLIED DIRECTLY TO CMU, SMOOTH FINISH. SEE WALL TYPES AND SPECIFICATIONS FOR MORE INFORMATION.
2. 8" CMU WALL. SEE STRUCTURAL. JOINTS TO BE STRUCK FLUSH FOR STUCCO APPLICATION.
3. BELOW GRADE VAPOR RETARDER, TYP., SEE ARCHITECTURAL SPECIFICATIONS.
4. BOND BEAM, SEE STRUCTURAL DRAWINGS.
5. ROOF ASSEMBLY WITH R-21 ISOBOARD INSULATION, SEE TYPICAL ROOF DETAILS AND ARCHITECTURAL SPECIFICATIONS FOR REQUIREMENTS.
6. PROVIDE CRYSTALLINE WATERPROOFING SYSTEM AT ELEVATOR PIT, SEE ARCHITECTURAL SPECIFICATIONS.
7. ASPHALT SHINGLE ROOFING WITH SELF-ADHERING POLYMER MODIFIED BITUMENT UNDERLAYMENT, SEE ARCHITECTURAL SPECIFICATIONS AND TYPICAL ROOF DETAILS.
8. SOLID, NON-VENTED METAL PANEL SOFFIT, SEE TYPICAL ROOF DETAILS AND FLORIDA PRODUCT APPROVAL DETAILS.
9. 42" H 1-1/2" DIAMETER PAINTED DECORATIVE STEEL GUARDRAIL, SEE RAILING DETAILS
10. 36" H 1-1/2" DIAMETER ADA COMPLIANT PAINTED STEEL HANDRAIL.
11. PRE-ENGINEERED STEEL STAIRS WITH PRECAST TREADS, SUBMIT SHOP DRAWINGS FOR ARCHITECT REVIEW PRIOR TO FABRICATION.
12. CONCRETE BEAM, SEE STRUCTURAL DRAWINGS.
13. STEEL DECK, SEE STRUCTURAL DRAWINGS.
14. CANE DETECTION RAIL TO BE MOUNTED PERPENDICULAR TO STOREFRONT GLASS, ALIGN WITH MULLION. DO NOT EXCEED 80" VERTICAL CLEAR OVERHEAD PER F.A.C. SECTION 304.4.
15. ELEVATOR PIT AND SUMP AS REQUIRED BY ELEVATOR MANUFACTURER, PROVIDE PIT LADDER AS REQUIRED, SEE STRUCTURAL DRAWINGS
16. DECORATIVE PENDANT LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS.
17. ALUMINUM STOREFRONT WINDOW INSTALLED PER FLORIDA PRODUCT APPROVAL DETAILS, SEE EXTERIOR ELEVATIONS AND WINDOW SCHEDULE.
18. EDGE OF SECOND FLOOR OPENING (ABOVE).
19. 1-HOUR FIRE RATED CEILING ASSEMBLY AT TOP OF SHAFT, SEE UL DETAILS FOR REQUIREMENTS
21. HOIST BEAM PER ELEVATOR MANUFACTURER'S REQUIREMENTS.

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

0 2 4 8

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DATE:
ERICA AZORIN CRAIG
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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:

24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:

ENLARGED VERTICAL CIRCULATION - STAIR & ELEVATOR

SHEET NO:

A-302

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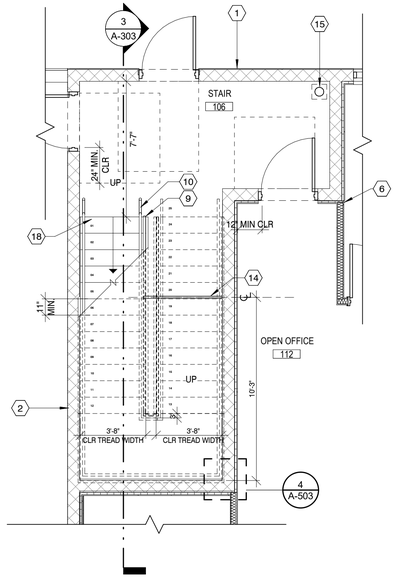
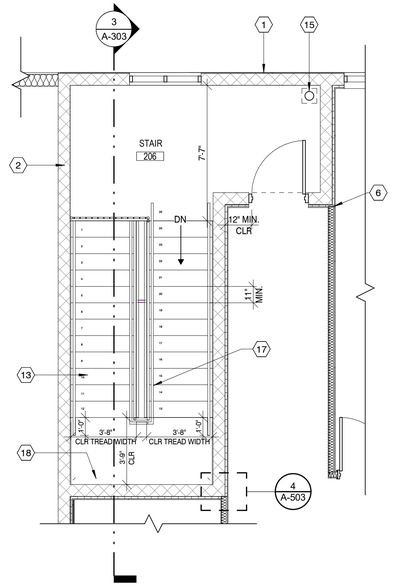


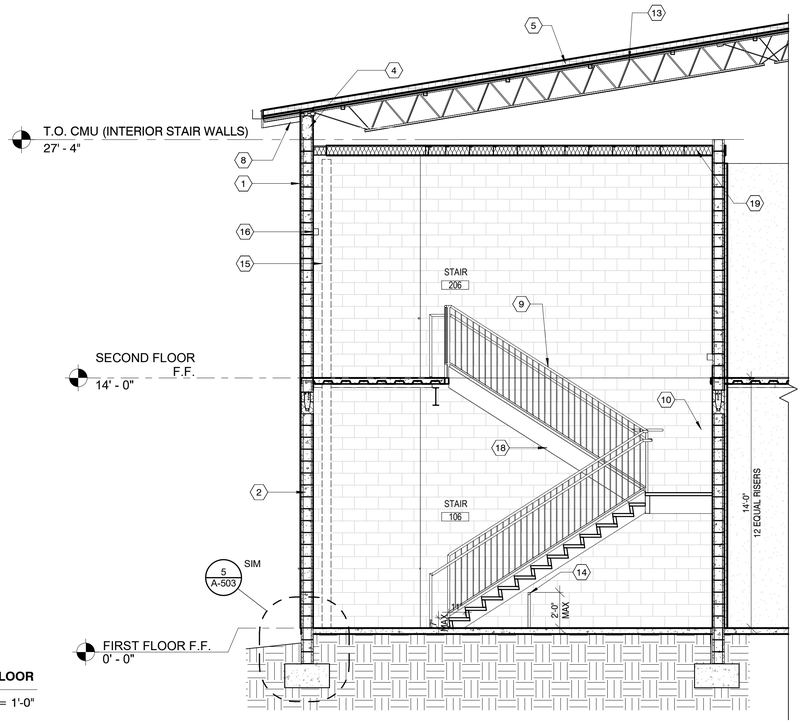
1 **ENLARGED FLOOR PLAN - STAIR 106 FIRST FLOOR**

1/4" = 1'-0"



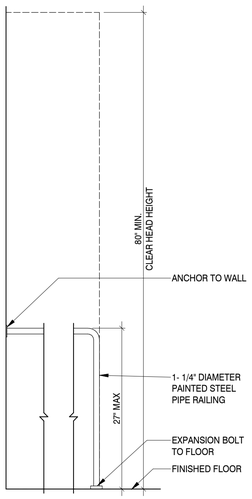
2 **ENLARGED FLOOR PLAN - STAIR 206 SECOND FLOOR**

1/4" = 1'-0"



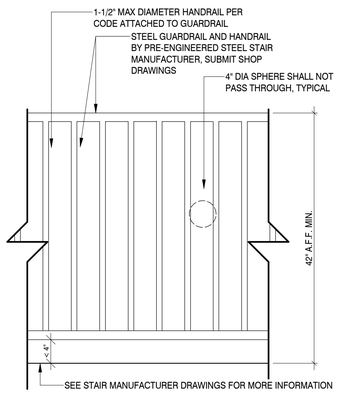
3 **SECTION THOUGH STAIR 106**

1/4" = 1'-0"



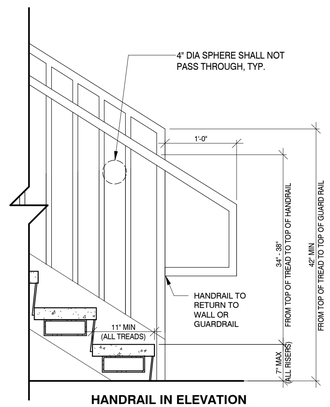
4 **DETAIL - TYP. UNDERSTAIR CANE DETECTOR RAIL**

1" = 1'-0"



5 **DETAIL - TYP. STAIR GUARDRAIL**

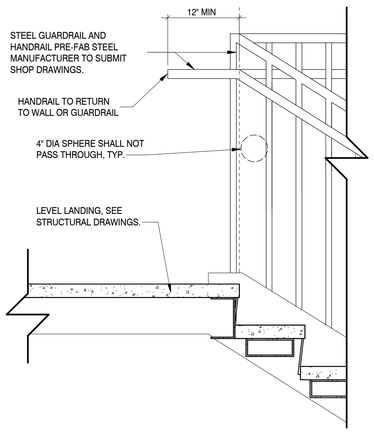
1" = 1'-0"



HANDRAIL IN ELEVATION

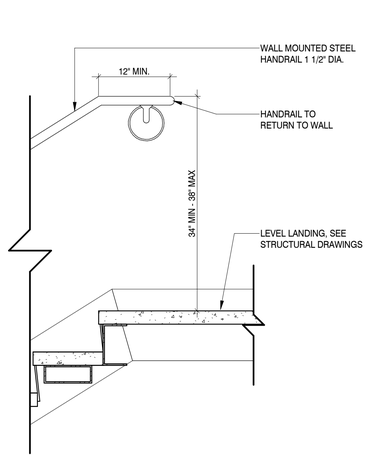
6 **DETAIL - TYP. FIRE STAIR RAILING BOTTOM EXTENSION**

1" = 1'-0"



7 **DETAIL - TYP. STAIR HANDRAIL TOP EXTENSION**

1" = 1'-0"



8 **DETAIL - TYP. STAIR WALL MOUNTED HANDRAIL**

1" = 1'-0"

GENERAL NOTES:

- REFER TO FLOOR PLANS, ROOF PLAN, RCP, EXTERIOR ELEVATIONS, AND STRUCTURAL FOR ADDITIONAL INFORMATION
- ALL OPENINGS, RUNS, CLEARANCES, FLOOR TRANSITIONS, AND ELEVATOR SHAFT & STAIR DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH THE FINAL ELEVATOR AND STAIR SHOP DRAWINGS AS PROVIDED BY THE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND SHALL COORDINATE AND IMPLEMENT ANY REQUIRED ADJUSTMENTS PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ACTIVITIES.

SHEET NOTES

1. 5/8" STUCCO APPLIED DIRECTLY TO CMU, SMOOTH FINISH. SEE WALL TYPES AND SPECIFICATIONS FOR MORE INFORMATION.
2. 8" CMU WALL, SEE STRUCTURAL. JOINTS TO BE STRUCK FLUSH FOR STUCCO APPLICATION.
3. BELOW GRADE VAPOR RETARDER, TYP. SEE ARCHITECTURE SPECIFICATIONS.
4. BOND BEAM, SEE STRUCTURAL DRAWINGS.
5. ROOF ASSEMBLY WITH R-21 ISOBOARD INSULATION, SEE TYPICAL ROOF DETAILS AND ARCHITECTURE SPECIFICATION FOR REQUIREMENTS.
6. ALIGN METAL STUD WALL WITH ADJACENT FURRING ON CMU SO THAT GYP. BD. ALIGNS FLUSH WITH SEAMLESS TRANSITION.
7. ASPHALT SHINGLE ROOFING WITH SELF-ADHERING POLYMER MODIFIED BITUMEN UNDERLAYMENT, SEE ARCHITECTURE SPECS AND TYPICAL ROOF DETAILS.
8. SOLID/NON-VENTED METAL PANEL SOFFIT. SEE TYPICAL ROOF DETAILS AND FLORIDA PRODUCT APPROVAL DETAILS.
9. 42" H 1-1/2" DIAMETER PAINTED STEEL GUARDRAIL WITH VERTICAL PICKETS, SEE RAILING DETAILS.
10. 36" H 1-1/2" DIAMETER ADA COMPLIANT PAINTED STEEL HANDRAIL.
11. 1-1/2" "Z" FURRING CHANNELS WITH RIGID INSULATION.
12. CONCRETE BEAM, SEE STRUCTURAL DRAWINGS.
13. STEEL DECK, SEE STRUCTURAL PLAN.
14. CANE DETECTION RAIL TO BE MOUNTED AT MAX 27. 27" A.F.F. WHEN RAIL IS PERPENDICULAR TO STOREFRONT GLASS, ALIGN WITH MULLION DO NOT EXCEED 80" VERTICAL CLEAR OVERHEAD PER F.A.C. SECTION 304.4.
15. FIRE RISER, SEE PLUMBING AND FIRE PROTECTION.
16. WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS.
17. STOREFRONT WINDOW INSTALLED PER FLORIDA PRODUCT APPROVAL DETAILS.
18. PRE-ENGINEERS STEEL STAIRS WITH CONCRETE FILLED METAL PAN TREADS. SUBMIT SHOP DRAWINGS FOR ARCHITECT REVIEW PRIOR TO FABRICATION.
19. 1 HOUR FIRE RATED CEILING ASSEMBLY AT TOP OF SHAFT, SEE UL DETAILS FOR REQUIREMENTS.
20. METAL SOFFIT PANELS.

STAIR GENERAL NOTES

- PRE-ENGINEERED STEEL STAIR MANUFACTURER TO SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND SUBMIT DRAWINGS TO BUILDING DEPT. AS REQUIRED.
- FASTENERS, CLIPS, AND FLANGES PER MANUFACTURER'S RECOMMENDATION FOR USE WITH THE RAILING SYSTEM.
- RAILINGS AND GUARDRAIL SYSTEM AND CONNECTIONS TO BE PROVIDED BY THE PRE-ENGINEERED STEEL STAIR MANUFACTURER AND COMPLY WITH FBC 2023.
- 1-1/2" MAX. DIAMETER FOR THE HANDRAIL PER FBC 2023.
- THE CLEAR SPACE BETWEEN THE WALLS, GUARDRAIL, AND THE HANDRAIL SHOULD BE 1-1/2".
- TREADS TO BE PAN FILLED, UNLESS NOTED OTHERWISE.
- RISERS TO BE CLOSED PER FBC 2023.
- STEEL STRINGERS TO BE PROVIDED BY THE PRE-ENG. STEEL STAIR MANUFACTURER.
- STAIR RAILINGS TO BE FILED PAINTED, FINAL COLOR TO BE DECIDED BY THE OWNER AND ARCHITECT.

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No.	Date	Revision

PROJECT NO:
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DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
ENLARGED VERTICAL CIRCULATION - STAIR 106

SHEET NO:
A-303

N

SCALE: 1/4" = 1' - 0"
0 2 4 8

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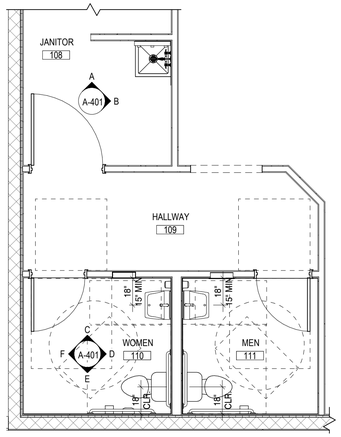
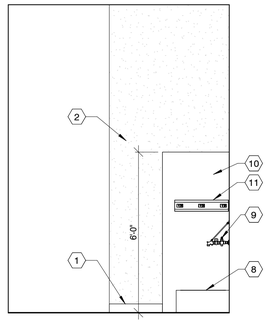
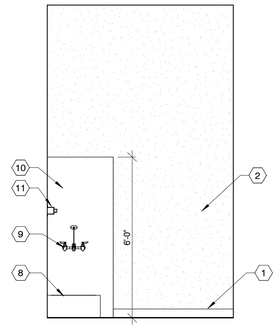


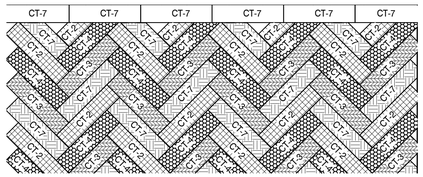
1 ENLARGED FLOOR PLANS - JANITOR 108, WOMEN 110 (MEN 111 SIM)
1/4" = 1'-0"



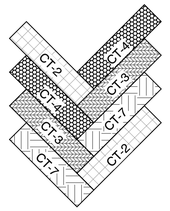
A INTERIOR ELEVATION - JANITOR 108
3/8" = 1'-0"



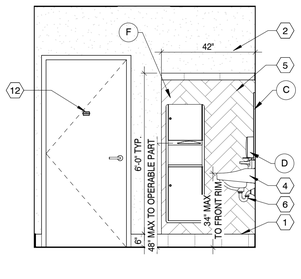
B INTERIOR ELEVATION - JANITOR 108
3/8" = 1'-0"



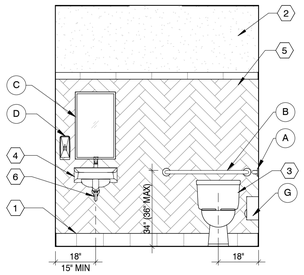
2 DETAIL - RESTROOM WALL TILE PATTERN
3/4" = 1'-0"



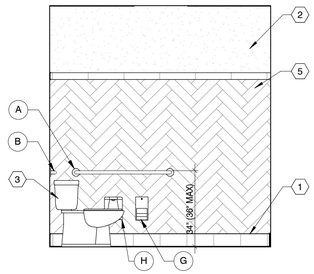
3 PATTERN REPEAT
1" = 1'-0"



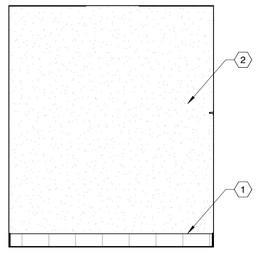
C INTERIOR ELEVATION - WOMEN 110 (MEN 111 SIM)
3/8" = 1'-0"



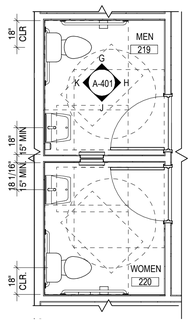
D INTERIOR ELEVATION - WOMEN 110 (MEN 111 SIM)
3/8" = 1'-0"



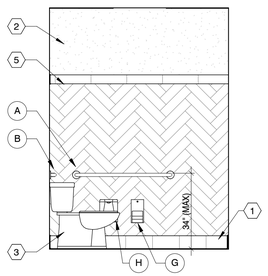
E INTERIOR ELEVATION - WOMEN 110 (MEN 111 SIM)
3/8" = 1'-0"



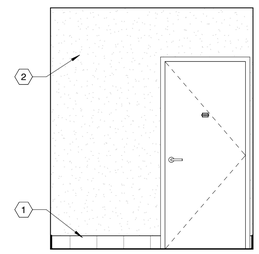
F INTERIOR ELEVATION - WOMEN 110 (MEN 111 SIM)
3/8" = 1'-0"



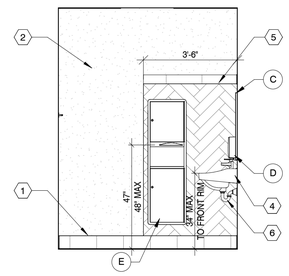
4 ENLARGED FLOOR PLAN - MENS 219 (WOMENS 220 SIM)
1/4" = 1'-0"



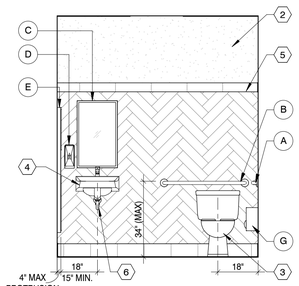
G INTERIOR ELEVATION - MEN 219 (WOMEN 220 SIM)
3/8" = 1'-0"



H INTERIOR ELEVATION - MEN 219 (WOMEN 220 SIM)
3/8" = 1'-0"

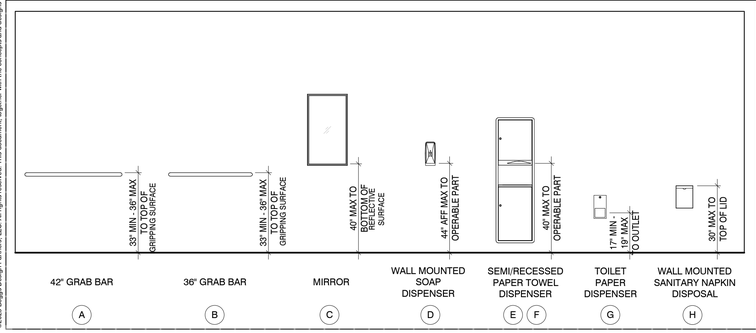


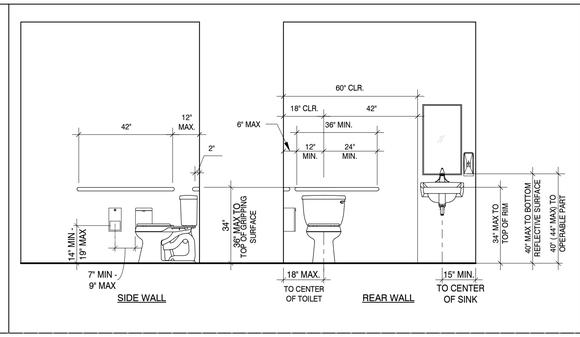
J INTERIOR ELEVATION - MEN 219 (WOMEN 220 SIM)
3/8" = 1'-0"



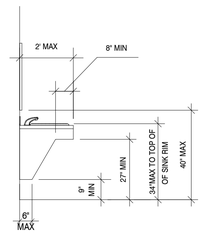
K INTERIOR ELEVATION - MEN 219 (WOMEN 220 SIM)
3/8" = 1'-0"

STANDARD TOILET ACCESSORY MOUNTING HEIGHTS





REQUIRED COUNTERTOP CLEARANCES



TOILET ACCESSORY LEGEND

* SEE ARCHITECTURAL SPECIFICATIONS

- (A) 42" GRAB BAR
- (B) 36" GRAB BAR
- (C) ADA COMPLIANT WALL MOUNTED MIRROR
- (D) ADA COMPLIANT WALL MOUNTED SOAP DISPENSER
- (E) ADA COMPLIANT SEMI-RECESSED PAPER TOWEL DISPENSER/WASTE DISPOSAL
- (F) ADA COMPLIANT RECESSED PAPER TOWEL DISPENSER/WASTE DISPOSAL
- (G) ADA COMPLIANT TOILET PAPER DISPENSER
- (H) WALL MOUNTED SANITARY NAPKIN DISPOSAL, INSTALL IN ALL WOMENS RESTROOMS AND UNISEX RESTROOMS

GENERAL NOTES:

- VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DIMENSIONAL CONFLICTS PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO FACE OF FINISHED WALL, UNLESS SPECIFICALLY NOTED OTHERWISE AS "CLEAR" DIMENSION TO FACE OF FINISHED WALL, OR AS A CENTERLINE DIMENSION.
- ALL WALLS TO BE PAINTED P-1, UNLESS NOTED OTHERWISE. SEE ROOM FINISH SCHEDULE.
- ALL TOILET ROOM ACCESSORIES AND EQUIPMENT TO BE MOUNTED AT ADA COMPLIANT HEIGHTS AND REQUIRED CLEARANCES. REFER TO STANDARD TOILET ACCESSORY MOUNTING HEIGHT DIAGRAMS BELOW, INTERIOR ELEVATIONS, AND ARCHITECTURAL SPECIFICATIONS.
- GENERAL CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL PLUMBING FIXTURES AND ACCESSORIES.
- SEE STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR MORE INFORMATION.
- SEE ROOM FINISH SCHEDULE FOR MORE INFORMATION.

SHEET NOTES

1. WALL BASE AS SCHEDULED. SEE FINISH SCHEDULE AND ARCHITECTURAL SPECIFICATIONS
2. PAINTED GYPSUM BOARD, SEE FINISH SCHEDULE AND ARCHITECTURAL SPECIFICATIONS
3. ADA COMPLIANT FLOOR MOUNTED TOILET, SEE PLUMBING DRAWINGS AND SPECIFICATION
4. ADA COMPLIANT WALL HUNG LAVATORY, SEE PLUMBING DRAWINGS AND SPECIFICATIONS
5. CERAMIC WALL TILE, SEE ROOM FINISH SCHEDULE AND ARCHITECTURAL SPECIFICATIONS
6. WRAP PLUMBING WITH TRUBRO LAV GUARD ADA COMPLIANT UNDERSINK PIPING COVER
7. NOT USED
8. 24" W X 24" D MOPSINK, SEE PLUMBING DRAWING AND SPECIFICATIONS
9. SERVICE FAUCET, SEE PLUMBING DRAWINGS AND SPECIFICATIONS
10. FRP - FIBERGLASS REINFORCED PLASTIC TO BE INSTALLED AROUND MOP SINK. SEE ROOM FINISH SCHEDULE, ARCHITECTURAL SPECIFICATIONS, AND INTERIOR ELEVATIONS.
11. MOP HOLDER, SEE ARCHITECUTRAL SPECIFICATIONS
12. DOUBLE COAT HOOK TO BE MOUNTED AT 60" - 66" AFF, SEE ARCHITECTURAL SPECIFICATIONS

SCALE 3/8" = 1' - 0"
0 4 8

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No.	Date	Revision

PROJECT NO:
24006

DATE: 5/30/2025
DESIGNED BY: MM
DRAWN BY: JG
CHECKED BY: EAC/NP/MM

DRAWING TITLE:
ENLARGED FLOOR PLAN & INTERIOR ELEVATIONS

SHEET NO:
A-401

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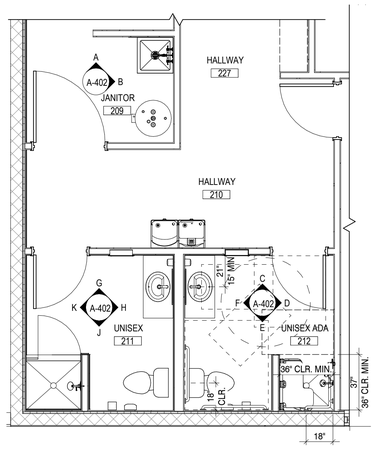
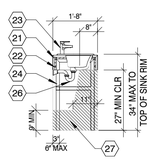


ENLARGED FLOOR PLANS - JANITOR 209, UNISEX 211, UNISEX ADA 212

1 — 1/4" = 1'-0"

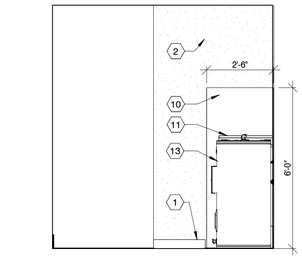
SECTION - CONSOLE VANITY

3 — 3/8" = 1'-0"



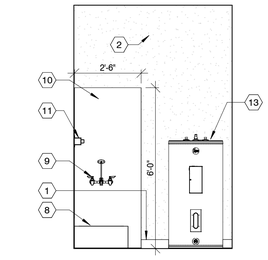
SECTION - CONSOLE VANITY

4 — 3/8" = 1'-0"



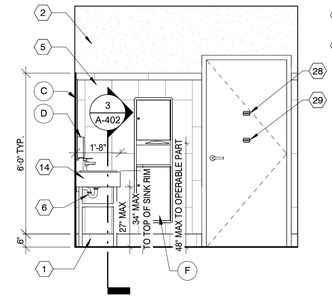
JANITOR 209

A — 3/8" = 1'-0"



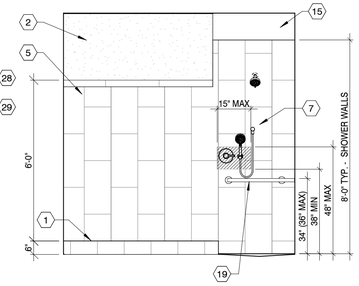
JANITOR 209

B — 3/8" = 1'-0"



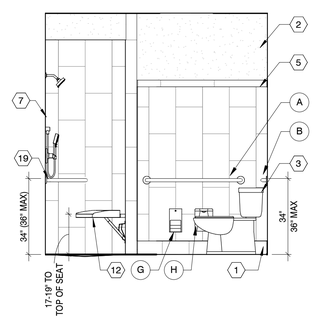
INTERIOR ELEVATION - UNISEX ADA RESTROOM 212

C — 3/8" = 1'-0"



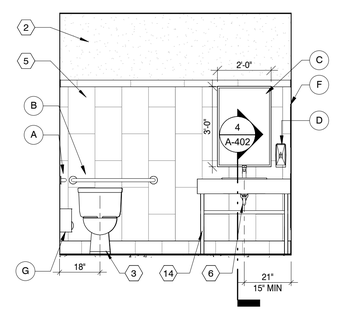
INTERIOR ELEVATION - UNISEX ADA RESTROOM 212

D — 3/8" = 1'-0"



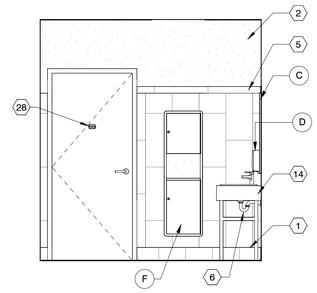
INTERIOR ELEVATION - UNISEX ADA RESTROOM 212

E — 3/8" = 1'-0"



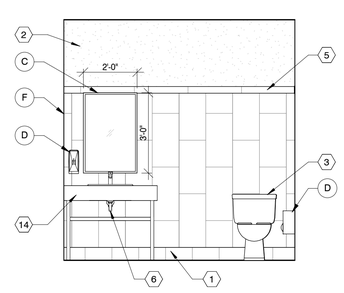
INTERIOR ELEVATION - UNISEX ADA RESTROOM 212

F — 3/8" = 1'-0"



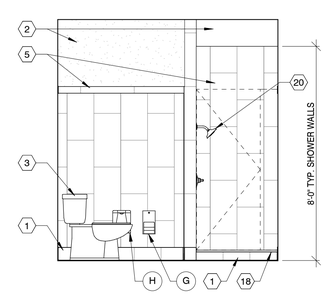
INTERIOR ELEVATION - UNISEX RESTROOM 211

G — 3/8" = 1'-0"



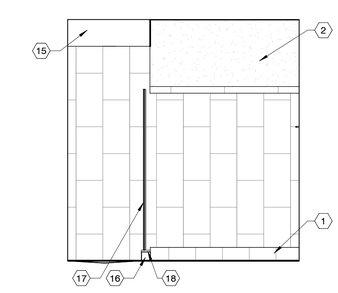
INTERIOR ELEVATION - UNISEX RESTROOM 211

H — 3/8" = 1'-0"



INTERIOR ELEVATION - UNISEX RESTROOM 211

J — 3/8" = 1'-0"



INTERIOR ELEVATION - UNISEX RESTROOM 211

K — 3/8" = 1'-0"

GENERAL NOTES:

- VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DIMENSIONAL CONFLICTS PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO FACE OF FINISHED WALL, UNLESS SPECIFICALLY NOTED OTHERWISE AS "CLEAR" DIMENSION TO FACE OF FINISHED WALL, OR AS A CENTERLINE DIMENSION.
- ALL WALLS TO BE PAINTED P-1, UNLESS NOTED OTHERWISE. SEE ROOM FINISH SCHEDULE.
- ALL TOILET ROOM ACCESSORIES AND EQUIPMENT TO BE MOUNTED AT ADA COMPLIANT HEIGHTS AND REQUIRED CLEARANCES. REFER TO STANDARD TOILET ACCESSORY MOUNTING HEIGHT DIAGRAMS BELOW, INTERIOR ELEVATIONS, AND ARCHITECTURAL SPECIFICATIONS.
- GENERAL CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL PLUMBING FIXTURES AND ACCESSORIES.
- SEE STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR MORE INFORMATION.
- SEE ROOM FINISH SCHEDULE FOR MORE INFORMATION.

SHEET NOTES

1 WALL BASE AS SCHEDULED. SEE FINISH SCHEDULE AND ARCHITECTURAL SPECIFICATIONS
2 PAINTED GYPSUM BOARD, SEE FINISH SCHEDULE AND ARCHITECTURAL SPECIFICATIONS
3 ADA COMPLIANT FLOOR MOUNTED TOILET, SEE PLUMBING DRAWINGS AND SPECIFICATION
5 CERAMIC WALL TILE, SEE ROOM FINISH SCHEDULE AND ARCHITECTURAL SPECIFICATIONS
6 WRAP PLUMBING WITH TRUBRO LAV GUARD ADA COMPLIANT UNDERSINK PIPING COVER
7 ADA COMPLIANT SHOWER HEAD AND CONTROL, SEE PLUMBING DRAWINGS AND SPECIFICATIONS
8 24" W X 24" D MOPSINK, SEE PLUMBING DRAWING AND SPECIFICATIONS
9 SERVICE FAUCET, SEE PLUMBING DRAWINGS AND SPECIFICATIONS
10 FRP - FIBERGLASS REINFORCED PLASTIC TO BE INSTALLED AROUND MOP SINK. SEE ROOM FINISH SCHEDULE, ARCHITECTURAL SPECIFICATIONS, AND INTERIOR ELEVATIONS.
11 MOP HOLDER, SEE ARCHITECUTRAL SPECIFICATIONS
12 ADA COMPLIANT SHOWER SEAT
13 WATER HEATER, SEE PLUMBING DRAWINGS AND SPECIFICATIONS
14 ADA COMPLIANT CONSOLE VANITY COMPRISED OF 1.5" X 1.5" STEEL ANGLE IRON FRAME WITH SIDE AND REAR CROSSBARS, BLACK POWDER-COAT FINISH, AND 2CM QUARTZ TOP, QZ-2 TERLINGUA. SEE PLUMBING DRAWINGS AND SPECIFICATIONS, INTERIOR ELEVATIONS AND ARCHITECTURAL FINISH SCHEDULE.
15 PAINTED GYPSUM BOARD SOFFIT, SEE RCP, INTERIOR ELEVATIONS, AND ROOM FINISH SCHEDULE
16 4"H CURB
17 FRAMELESS GLASS SHOWER DOOR
18 2CM QUARTZ TOP CAP FOR CURB
19 ADA COMPLIANT 18" x 32" TWO-WALL GRAB BAR
20 SHOWER HEAD AND CONTROL
21 2CM QUARTZ, QZ-2, SEE ROOM FINISH SCHEDULE
22 3/4" PLYWOOD SUBSTRATE
23 ADA COMPLIANT DROP-IN VANITY SINK AND FAUCET, SEE PLUMBING DRAWINGS AND SPECIFICATIONS
24 1.5" X 1.5" STEEL ANGLE IRON FRAME
25 1.5" X 1.5" STEEL ANGLE IRON CROSS BRACING AT REAR OF VANITY
26 WRAP PLUMBING WITH TRUBRO LAV GUARD ADA COMPLIANT UNDERSINK PIPING COVER
27 ADA REQUIRED COUNTERTOP CLEARANCE
28 DOUBLE COAT HOOK TO BE MOUNTED AT 60" - 66" AFF, SEE ARCHITECTURAL SPECIFICATIONS
29 DOUBLE COAT HOOK TO BE MOUNTED AT 48" MAX AFF TO MEET ADA REACH REQUIREMENTS, SEE ARCHITECTURAL SPECIFICATIONS

TOILET ACCESSORY LEGEND

* SEE ARCHITECTURAL SPECIFICATIONS

A 42" GRAB BAR
B 36" GRAB BAR
C ADA COMPLIANT WALL MOUNTED MIRROR
D ADA COMPLIANT WALL MOUNTED SOAP DISPENSER
E ADA COMPLIANT SEMI-RECESSED PAPER TOWEL DISPENSER/WASTE DISPOSAL
F ADA COMPLIANT RECESSED PAPER TOWEL DISPENSER/WASTE DISPOSAL
G ADA COMPLIANT TOILET PAPER DISPENSER
H WALL MOUNTED SANITARY NAPKIN DISPOSAL, INSTALL IN ALL WOMENS RESTROOMS AND UNISEX RESTROOMS

SCALE 3/8" = 1' - 0"
0 4 8

BOGGS DESIGN PARTNERS
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813 . 946 . 8444

DATE:
ERICA AZORIN CRAIG
FL REG. NO. AR101635

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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

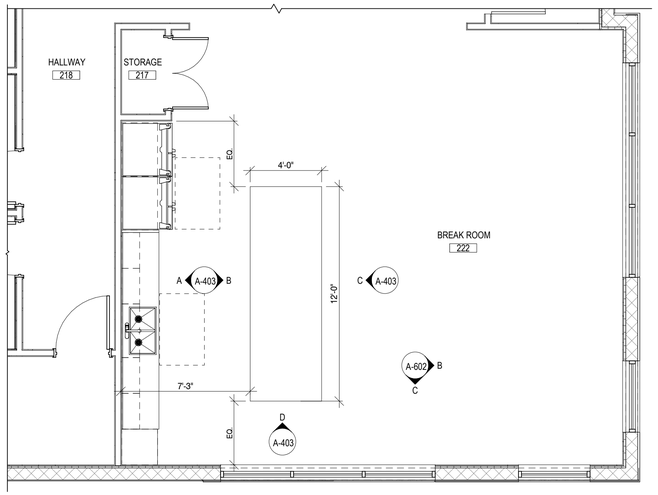
No.	Date	Revision

PROJECT NO:
24006

DATE: 5/30/2025
DESIGNED BY: MM
DRAWN BY: JG/MM
CHECKED BY: EAC/NP/MM

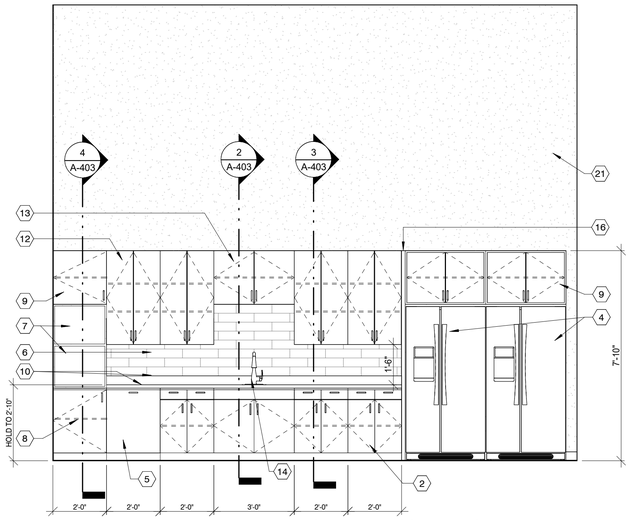
DRAWING TITLE:
ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS

SHEET NO:
A-402



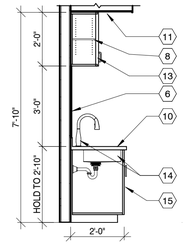
1 **ENLARGED FLOOR PLAN - BREAK ROOM**

1/4" = 1'-0"



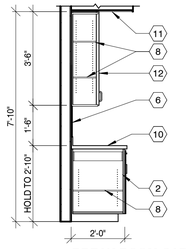
A **ELEVATION - BREAK ROOM MILLWORK**

3/8" = 1'-0"



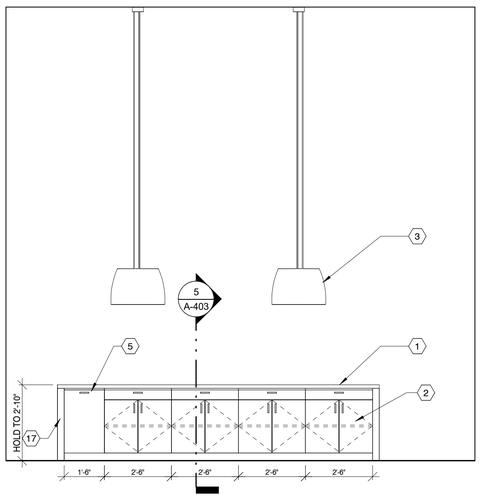
2 **SECTION - SINK CABINET**

3/8" = 1'-0"



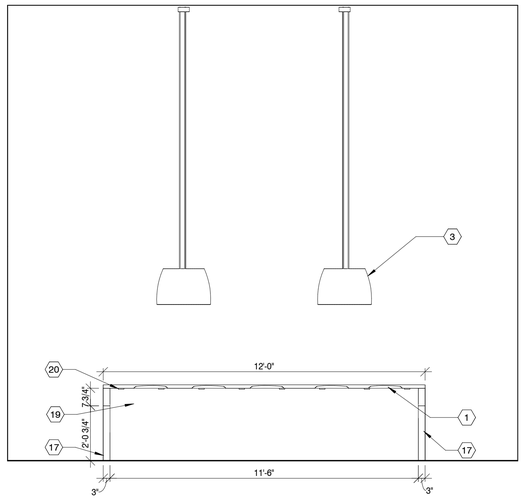
3 **BREAK ROOM CABINETS**

3/8" = 1'-0"



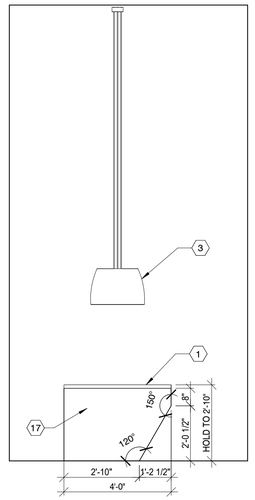
B **REAR ELEVATION - BREAK ROOM ISLAND**

3/8" = 1'-0"



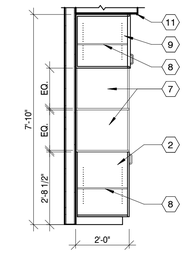
C **FRONT ELEVATION - BREAK ROOM ISLAND**

3/8" = 1'-0"



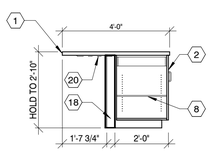
D **SIDE ELEVATION - BREAK ROOM ELEVATION**

3/8" = 1'-0"



4 **SECTION - STACKED CABINETS**

3/8" = 1'-0"



5 **SECTION - ISLAND**

3/8" = 1'-0"

SCALE 3/8" = 1' - 0"

0 4 8

GENERAL NOTES:

- VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DIMENSIONAL CONFLICTS PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO FACE OF STUD OR CMU, UNLESS SPECIFICALLY NOTED OTHERWISE AS "CLEAR" DIMENSION TO FACE OF FINISHED WALL, OR AS A CENTERLINE DIMENSION.
- ALL WALLS TO BE PAINTED P-1, UNLESS NOTED OTHERWISE. SEE ROOM FINISH SCHEDULE.
- SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS, AND ROOM FINISH SCHEDULES.
- GENERAL CONTRACTOR TO VERIFY ALL MILLWORK SHOP DRAWINGS IN FIELD BEFORE FABRICATION.

SHEET NOTES

1. 2CM QUARTZ COUNTERTOP, QZ-1, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
2. 24" D BASE CABINET WITH PLASTIC LAMINATE, ONE ADJUSTABLE SHELF, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
3. DECORATIVE PENDANT LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS
4. REFRIGERATORS, BY OTHERS
5. 24"D BASE CABINET WITH TRASH TWO (2) TOP MOUNTED 35 GALLON WASTEBASKETS, FULL EXTENSION SIDE MOUNT GLIDES, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
6. CERAMIC WALL TILE, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
7. 24"D x 18"H MICROWAVE CUBBIES WITH PLASTIC LAMINATE, MATCH ALL EXPOSED FACES TO BASE CABINET PLASTIC LAMINATE, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
8. ADJUSTABLE SHELF, PLAM-2, TYP. SEE ARCHITECTURAL SPECIFICATIONS
9. 24"D UPPER CABINET WITH PLASTIC LAMINATE, ONE ADJUSTABLE SHELF, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
10. 2CM QUARTZ COUNTERTOP WITH 3/4" PLYWOOD SUBSTRATE AND 4"H BACKSPLASH, QZ-, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
11. PAINTED GYPSUM BOARD SOFFIT, SEE RCP, INTERIOR ELEVATIONS, AND ROOM FINISH SCHEDULE
12. 12"D UPPER CABINET WITH PLASTIC LAMINATE, TWO ADJUSTABLE SHELVES, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
13. 12"D UPPER CABINET WITH PLASTIC LAMINATE, ONE ADJUSTABLE SHELF, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
14. ADA COMPLIANT DOUBLE BOWL STAINLESS STEEL UNDERMOUNT KITCHEN SINK AND FAUCET, SEE PLUMBING DRAWINGS AND SPECIFICATIONS
15. 24"D SINK BASE CABINET WITH PLASTIC LAMINATE, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
16. COORDINATE REFRIGERATOR MILLWORK SURROUND WITH OWNER PROVIDED REFRIGERATORS TO PROVIDE REQUIRED CLEARANCES FOR AIR CIRCULATION AND DOOR OPERATION FOR BOTH REFRIGERATORS PRIOR TO FABRICATION. CONTRACTOR TO NOTIFY ARCHITECT OF ANY CONFLICTS WITH ADJACENT CABINETRY
17. PLASTIC LAMINATED END PANEL, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
18. 3-5/8" METAL STUD KNEE WALL AT 16" O.C. WITH 3/4" PLYWOOD SUBSTRATE AND PLASTIC LAMINATE ON VISIBLE FACES, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
19. PLASTIC LAMINATED GYPSUM BOARD, PLASTIC LAMINATE GRAIN TO RUN HORIZONTALLY, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
20. LOW PROFILE/HIDDEN COUNTERTOP SUPPORT KNEE WALL BRACKET SPACED 18-20" O.C. BASIS OF DESIGN: THE ORIGINAL GRANITE BRACKET KW-18 THE ORIGINAL KNEE WALL HIDDEN COUNTERTOP SUPPORT BRACKET, STEEL, 1/2"H x 18" LONG x 2.5" W. CONCEPT IS FOR BRACKET TO BE FLAT AND NOT READILY VISIBLE, SEE ARCHITECTURAL SPECIFICATIONS
21. PAINTED GYPSUM BOARD, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE

BOGGS DESIGN PARTNERS
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DATE:
ERICA AZORIN CRAIG
FL REG. NO. AR101635

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NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:

24006

DATE:	5/30/2025
DESIGNED BY:	MM
DRAWN BY:	JG/MM
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:

ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS

SHEET NO:

A-403

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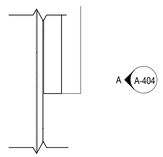
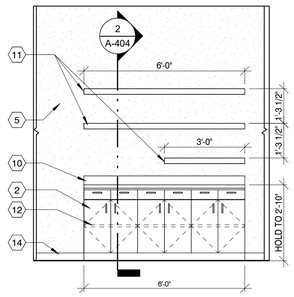


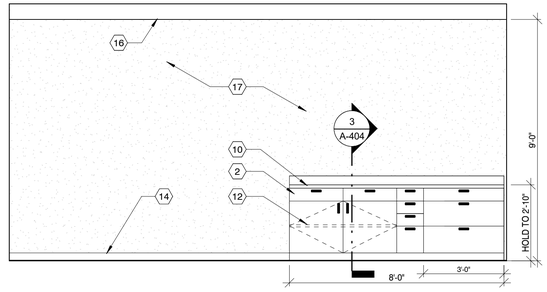
1 **ENLARGED FLOOR PLAN - COFFEE BAR**

1/4" = 1'-0"



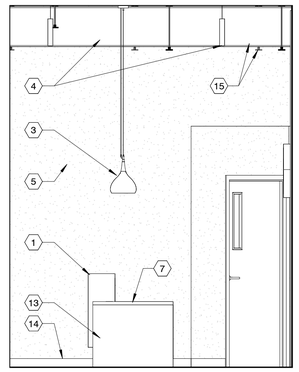
A **INTERIOR ELEVATION - COFFEE BAR**

3/8" = 1'-0"



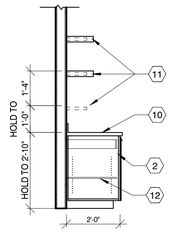
B **INTERIOR ELEVATION - COPY AREA**

3/8" = 1'-0"



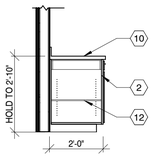
C **SIDE ELEVATION - RECEPTION DESK**

3/8" = 1'-0"



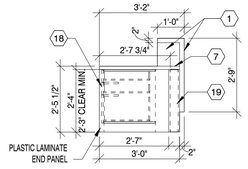
2 **SECTION - COFFEE BAR**

3/8" = 1'-0"



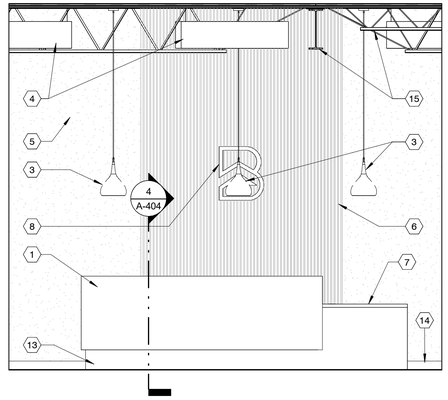
3 **SECTION - COPY AREA**

3/8" = 1'-0"



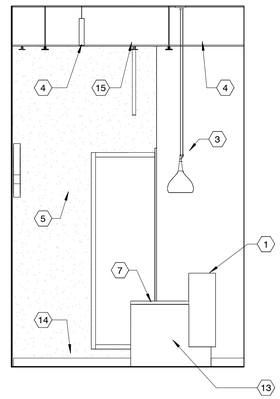
4 **SECTION - RECEPTION DESK**

3/8" = 1'-0"



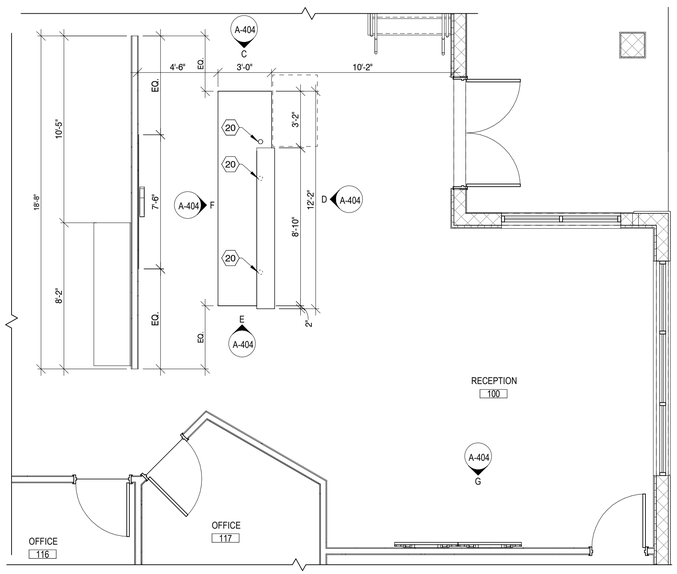
D **FRONT ELEVATION - RECEPTION DESK**

3/8" = 1'-0"



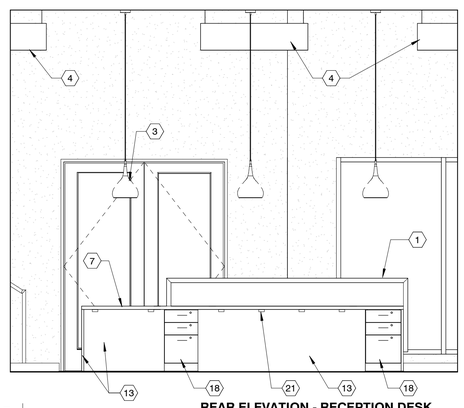
E **SIDE ELEVATION - RECEPTION DESK**

3/8" = 1'-0"



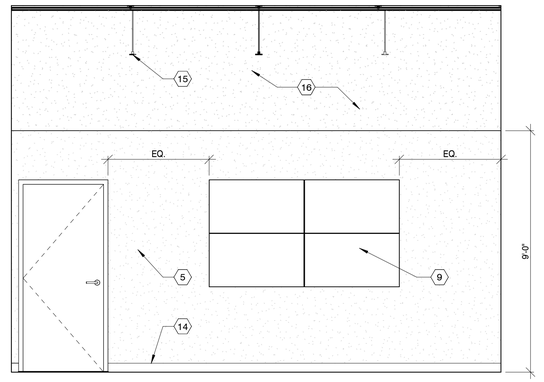
5 **ENLARGED FLOOR PLAN - COPY AREA, RECEPTION**

1/4" = 1'-0"



F **REAR ELEVATION - RECEPTION DESK**

3/8" = 1'-0"



G **INTERIOR ELEVATION - TV WALL**

3/8" = 1'-0"

SCALE 3/8" = 1' - 0"

0 4 8

GENERAL NOTES:

- VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DIMENSIONAL CONFLICTS PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO FACE OF STUD OR CMU, UNLESS SPECIFICALLY NOTED OTHERWISE AS "CLEAR" DIMENSION TO FACE OF FINISHED WALL, OR AS A CENTERLINE DIMENSION.
- ALL WALLS TO BE PAINTED P-1, UNLESS NOTED OTHERWISE. SEE ROOM FINISH SCHEDULE.
- SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS, AND ROOM FINISH SCHEDULES.
- GENERAL CONTRACTOR TO VERIFY ALL MILLWORK SHOP DRAWINGS IN FIELD BEFORE FABRICATION.

SHEET NOTES

1 2CM QUARTZ SHROUD WITH 3/4" PLYWOOD SUBSTRATE, QZ-1, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
2 24" D BASE CABINET WITH PLASTIC LAMINATE, ONE ADJUSTABLE SHELF, PLAM-2, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
3 DECORATIVE PENDANT LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS
4 ACOUSTIC LINEAR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS
5 PAINTED GYPSUM BOARD, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
6 WOOD SLAT ACOUSTIC PANELING, SEE ROOM FINISH SCHEDULE.
7 2CM QUARTZ COUNTERTOP, QZ-1, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
8 SIGNAGE BY OTHERS
9 VIDEO WALL, BY OWNER
10 QUARTZ COUNTERTOP WITH 3/4" PLYWOOD SUBSTRATE AND 4"H BACKSPLASH, QZ-1, SEE FINISH SCHEDULE
11 2 1/2" PLASTIC LAMINATE FLOATING SHELVES WITH HIDDEN FLOATING SHELF BRACKETS, PLAM-3, SEE ROOM FINISH SCHEDULE
12 PLASTIC LAMINATE ADJUSTABLE SHELF, PLAM-2, TYP., SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
13 PLASTIC LAMINATE, PLAM-1, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
14 WALL BASE AS SCHEDULED
15 STEEL BEAM AND JOISTS, TO BE PAINTED PNT-3, SEE STRUCTURAL DRAWINGS
16 PAINTED GYPSUM BOARD SOFFIT, SEE RCP, INTERIOR ELEVATIONS, AND ROOM FINISH SCHEDULE
17 VINYL GRAPHIC WALLCOVERING, BY OWNER
18 15"W x 24"D x 28"H FILE CABINET WITH 2 SMALLER DRAWERS AND 1 FILE DRAWER, PLAM-1, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
19 3-5/8" METAL STUD KNEE WALL AT 16" O.C. WITH 3/4" PLYWOOD SUBSTRATE AND PLASTIC LAMINATE ON VISIBLE FACES, PLAM-1, SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE
20 3" DIAM METAL GROMMET, SEE ARCHITECTURAL SPECIFICATIONS
21 LOW PROFILE/HIDDEN COUNTERTOP SUPPORT KNEE WALL BRACKET SPACED 18-20" O.C. BASIS OF DESIGN: THE ORIGINAL GRANITE BRACKET KW-18 THE ORIGINAL KNEE WALL HIDDEN COUNTERTOP SUPPORT BRACKET, STEEL, 1/2"H x 18" LONG x 2.5" W. CONCEPT IS FOR BRACKET TO BE FLAT TO PROVIDE ADEQUATE KNEE SPACE, SEE ARCHITECTURAL SPECIFICATIONS

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ERICA AZORIN CRAIG
FL REG. NO. AR101635

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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:

24006

DATE:	5/30/2025
DESIGNED BY:	MM
DRAWN BY:	JG/MM
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:

ENLARGED FLOOR PLAN & INTERIOR ELEVATIONS

SHEET NO:

A-404

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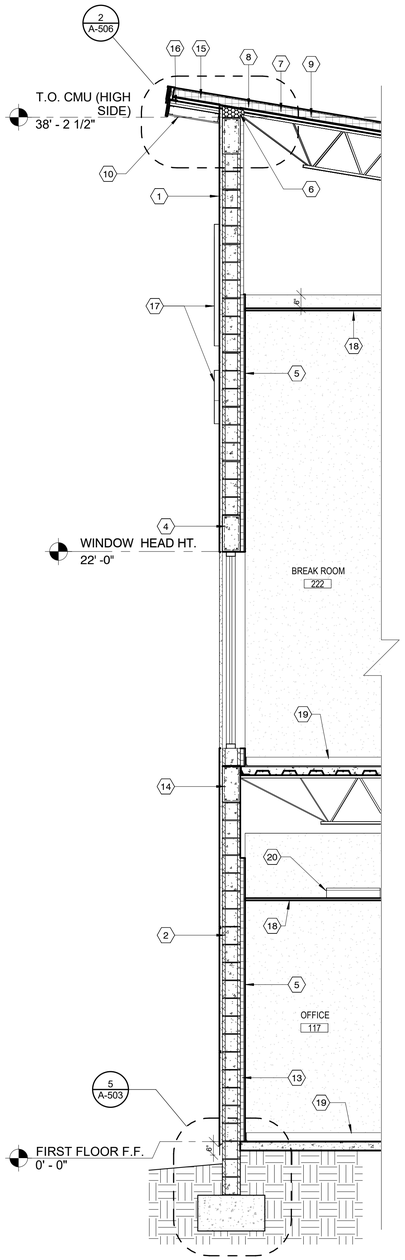
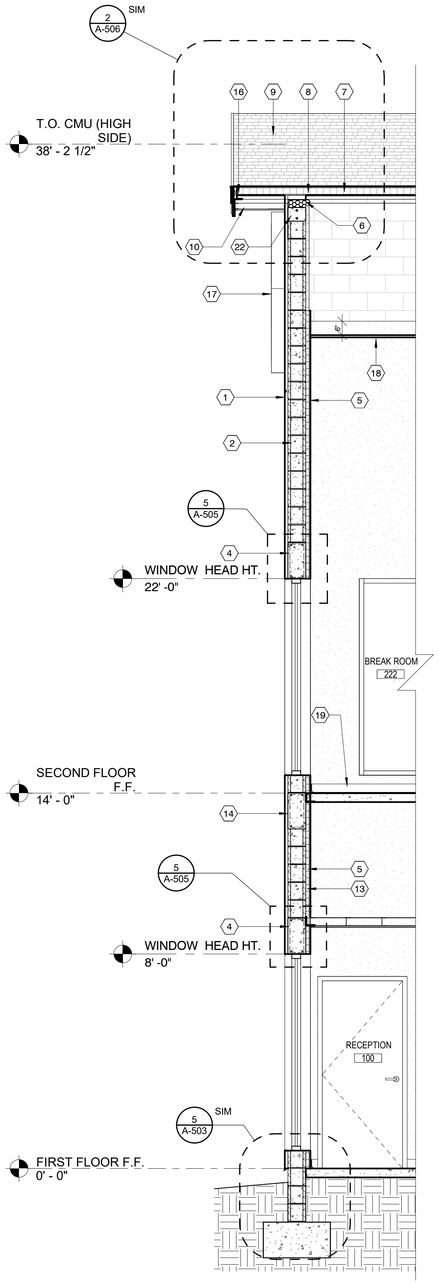


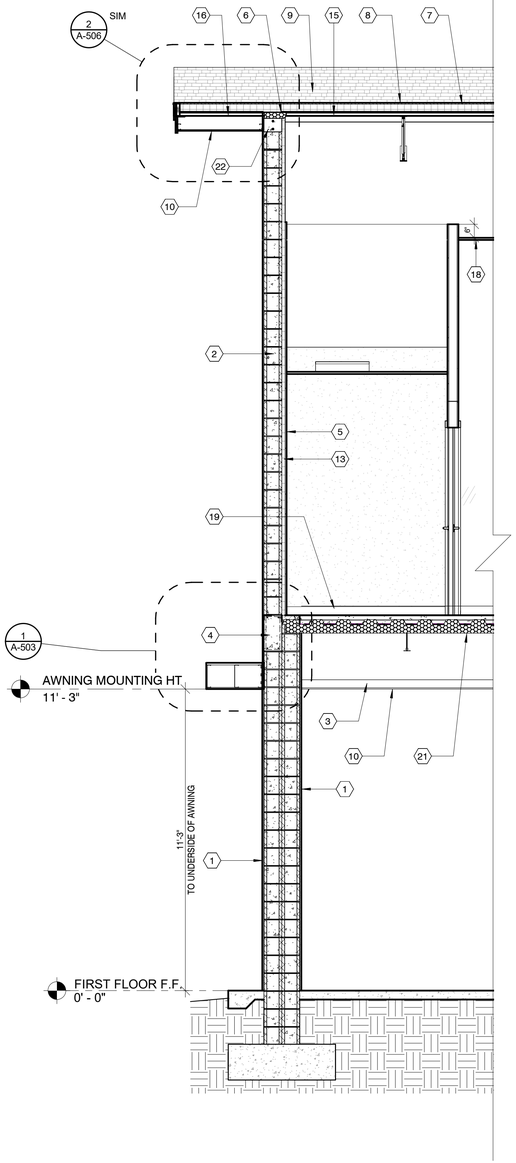
1 SECTION THOUGH EXTERIOR HIGH WALL

3/8" = 1'-0"



2 WALL SECTION @ BREAKROOM

3/8" = 1'-0"



4 WALL SECTION @ COLUMN ENTRY

3/8" = 1'-0"

GENERAL NOTES:

- REFER TO FLOOR PLANS, ROOF PLAN, RCP, EXTERIOR ELEVATIONS, AND STRUCTURAL FOR ADDITIONAL INFORMATION
- ALL OPENINGS, RUNS, CLEARANCES, FLOOR TRANSITIONS, AND ELEVATOR SHAFT & STAIR DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH THE FINAL ELEVATOR AND STAIR SHOP DRAWINGS AS PROVIDED BY THE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND SHALL COORDINATE AND IMPLEMENT ANY REQUIRED ADJUSTMENTS PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ACTIVITIES.

SHEET NOTES

1. 5/8" STUCCO APPLIED DIRECTLY TO CMU, SMOOTH FINISH, PAINTED. SEE EXTERIOR ELEVATIONS FOR PAINT COLOR. SEE WALL TYPES AND SPECIFICATIONS FOR MORE INFORMATION.
2. CMU BLOCK, SEE STRUCTURAL. JOINTS TO BE STRUCK FLUSH FOR STUCCO APPLICATION.
3. METAL STUD SOFFIT FRAMING, SEE STRUCTURAL DRAWINGS.
4. BOND BEAM, SEE STRUCTURAL DRAWINGS. .
5. 5/8" GYPSUM BOARD.
6. CONTINUOUS CLOSED CELL SPRAY FOAM INSULATION TO FILL ANY REMAINING GAPS BETWEEN TOP OF WALL AND BOTTOM OF ROOF DECK.
7. ROOF ASSEMBLY WITH R-21 ISOBOARD INSULATION, SEE TYPICAL ROOF DETAILS AND ARCH. SPECIFICATIONS FOR REQUIREMENTS.
8. SELF-ADHERING POLYMER MODIFIED BITUMEN UNDERLAYMENT, SEE ARCHITECTURAL SPECIFICATIONS.
9. ARCHITECTURAL SHINGLE ROOFING.
10. ALUMINUM SOFFIT PANELS WITH MATCHING EDGE CHANNELS.
11. NOT USED.
12. CONTINUOUS BOX GUTTER, SEE ROOF PLAN.
13. 1-1/2" "Z" FURRING CHANNELS WITH RIGID INSULATION.
14. CONCRETE BEAM SEE STRUCTURAL.
15. STEEL DECK, SEE STRUCTURAL PLAN.
16. OUTRIGGERS, SEE STRUCTRAL DRAWINGS.
17. BUILDING SIGNAGE BY OTHERS.
18. ACOUSTICAL CEILING TILE. SEE REFLECTED CEILING PLAN. AND FINISH SCHEDULE FOR MORE INFORMATION.
19. WALL BASE. SEE FINISH SCHEDULE.
20. LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
21. 4" CONTINUOUS MIN R-30 CLOSED CELL SPRAY FOAM INSULATION AT BOTTOM OF FLOOR DECK. DESIGN INTENT IS TO CREATE A CONTINUOUSLY INSULATED INTERIOR SPACE.
22. RAKED BEAM, SEE STRUCTURAL DRAWINGS.

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FLORIDA. 33716

No.	Date	Revision

PROJECT NO:

24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JRG
CHECKED BY:	MM / EAC

DRAWING TITLE:

WALL SECTIONS

SHEET NO:

A-501

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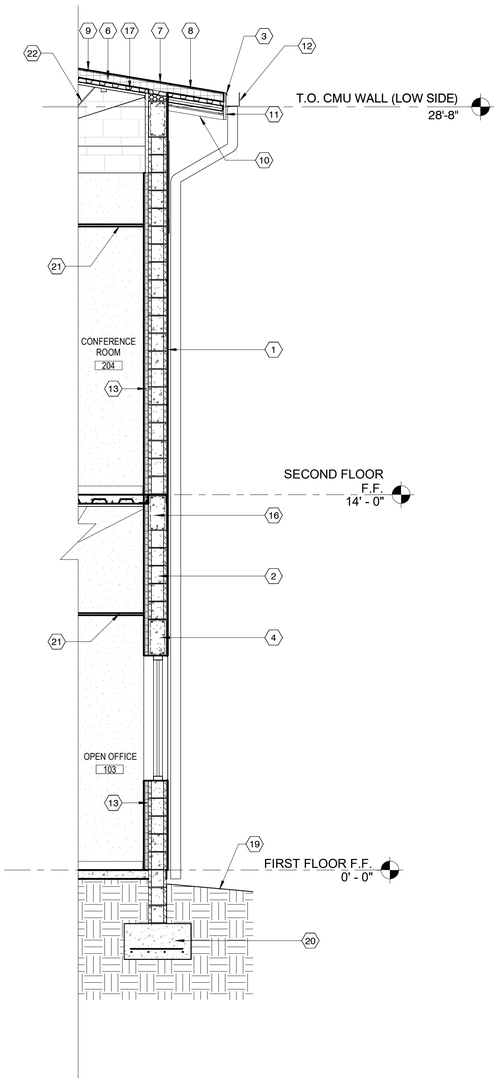
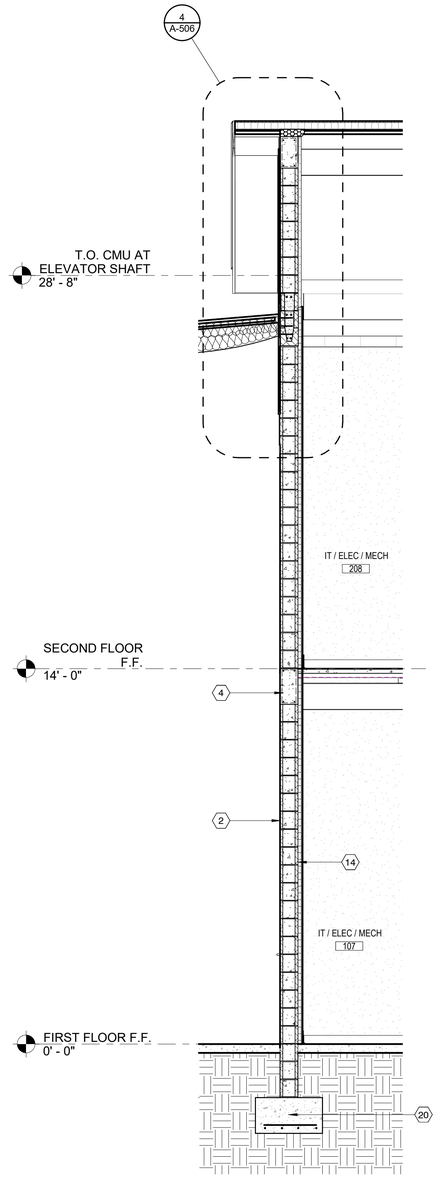


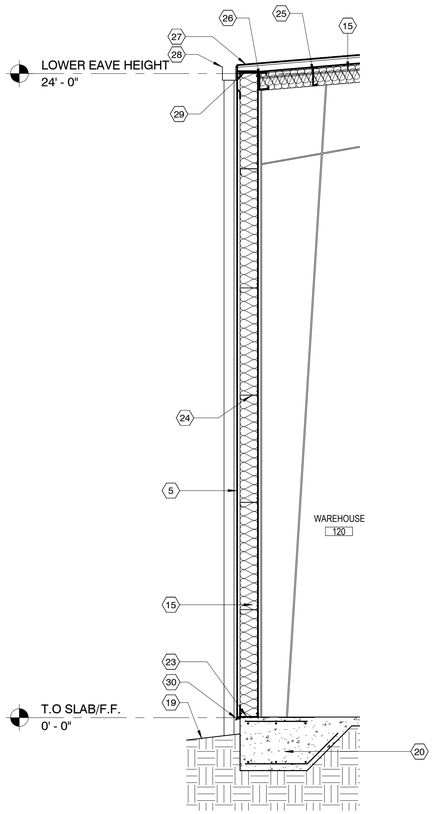
1 **WALL SECTION AT OFFICE**

3/8" = 1'-0"



2 **WALL SECTION AT PEMB ROOF TO CMU WALL**

3/8" = 1'-0"



3 **WALL SECTION AT PEMB**

3/8" = 1'-0"

GENERAL NOTES:

- REFER TO FLOOR PLANS, ROOF PLAN, RCP, EXTERIOR ELEVATIONS, AND STRUCTURAL FOR ADDITIONAL INFORMATION
- ALL OPENINGS, RUNS, CLEARANCES, FLOOR TRANSITIONS, AND ELEVATOR SHAFT & STAIR DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH THE FINAL ELEVATOR AND STAIR SHOP DRAWINGS AS PROVIDED BY THE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND SHALL COORDINATE AND IMPLEMENT ANY REQUIRED ADJUSTMENTS PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ACTIVITIES.

SHEET NOTES

1. 5/8" STUCCO APPLIED DIRECTLY TO CMU, SMOOTH FINISH. SEE WALL TYPES AND SPECIFICATIONS FOR MORE INFORMATION.
2. CMU BLOCK, SEE STRUCTURAL. JOINTS TO BE STRUCK FLUSH FOR STUCCO APPLICATION.
3. EXTERIOR DRIP EDGE.
4. BOND BEAM, SEE STRUCTURAL.
5. PEMB METAL PANEL BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
6. 4" HUNTER H-SHIELD NB, SEE ARCH. SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. INSTALL PER FLORIDA PRODUCT APPROVAL DETAILS.
7. PLYWOOD SHEATHING.
8. GAF STORM GUARD UNDERLAYMENT.
9. GAF TIMBERLINE HD SHINGLES.
10. METAL PANEL SOFFIT.
11. HARDIE FASCIA PANEL.
12. CONTINUOUS BOX GUTTER, SEE ROOF PLAN.
13. 1-1/2" "Z" FURRING CHANNELS WITH RIGID INSULATION.
14. BEAM BY PRE ENGINEERED METAL BUILDING COMPANY.
15. VINYL-FACED BATT INSULATION BY PEMB COMPANY, MIN R-13.
16. CONCRETE BEAM, SEE STRUCTURAL DRAWINGS.
17. STEEL DECK, SEE STRUCTURAL PLAN.
18. OUTRIGGERS.
19. GRADE, SEE CIVIL DRAWINGS.
20. FOUNDATION, SEE STRUCTURAL DRAWINGS.
21. ACOUSTICAL CEILING. SEE REFLECTED CEILING PLAN AND FINISH SCHEDULE FOR MORE INFORMATION.
22. BAR JOIST, SEE STRUCTURAL DRAWINGS.
23. CHANNEL BEAM BY PEMB COMPANY.
24. 8" GIRTS BY PEMB COMPANY.
25. ROOF PURLINS BY PEMB COMPANY.
26. EAVE STRUT BY PEMB COMPANY.
27. METAL ROOFING BY PEMB COMPANY.
28. CONTINUOUS GUTTER BY PEMB COMPANY, MIN 6" X 6".
29. EAVE TRIM BY PEMB COMPANY.
30. DRIP TRIM BY PEMB COMPANY.

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NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:

24006

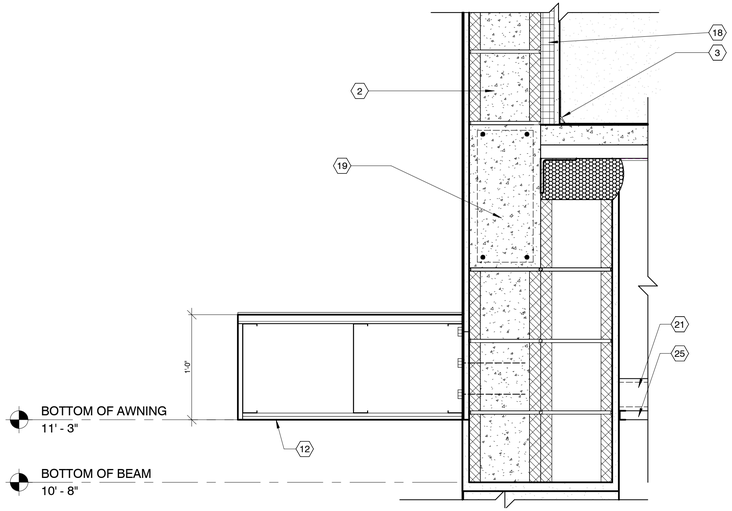
DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:

WALL SECTIONS

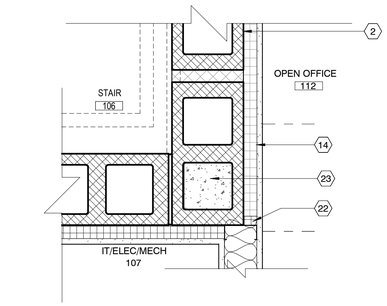
SHEET NO:

A-502



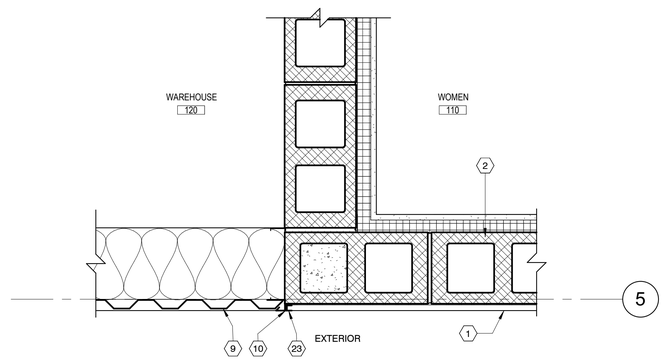
1 **WALL DETAIL AT AWNING**

1 1/2" = 1'-0"



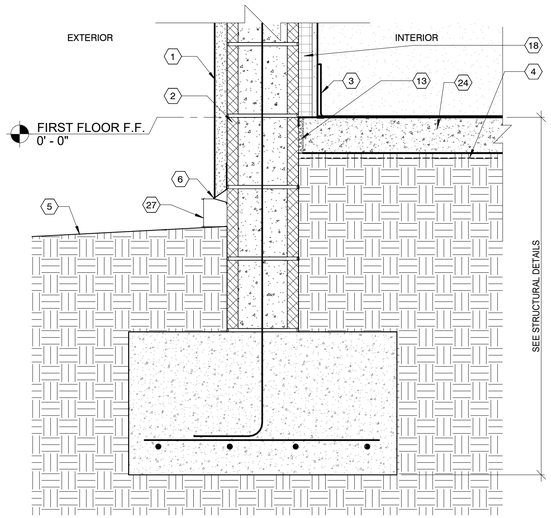
4 **CMU WALL WALL TO METAL STUD TYP.**

1 1/2" = 1'-0"



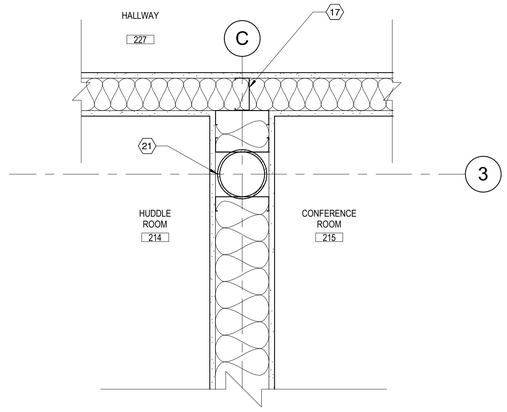
2 **PEMB WALL TO CMU WALL TYP.**

1 1/2" = 1'-0"



5 **CMU AT EXTERIOR WALL DETAIL**

1 1/2" = 1'-0"



3 **EMBEDDED WALL COLUMN**

1 1/2" = 1'-0"

GENERAL NOTES:

- REFER TO FLOOR PLANS, ROOF PLAN, RCP, EXTERIOR ELEVATIONS, AND STRUCTURAL FOR ADDITIONAL INFORMATION
- ALL OPENINGS, RUNS, CLEARANCES, FLOOR TRANSITIONS, AND ELEVATOR SHAFT & STAIR DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH THE FINAL ELEVATOR AND STAIR SHOP DRAWINGS AS PROVIDED BY THE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND SHALL COORDINATE AND IMPLEMENT ANY REQUIRED ADJUSTMENTS PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ACTIVITIES.

SHEET NOTES

1. 5/8" STUCCO APPLIED DIRECTLY TO CMU, SMOOTH FINISH. SEE WALL TYPES AND SPECIFICATIONS FOR MORE INFORMATION.
2. 8" CMU BLOCK, SEE STRUCTURAL DRAWINGS. JOINTS TO BE STRUCK FLUSH FOR STUCCO APPLICATION.
3. WALL BASE, SEE ROOM FINISH SCHEDULE.
4. 15 MIL BELOW GRADE VAPOR RETARDER, SEE ARCH. SPECIFICATIONS.
5. FINISH GRADE, SEE CIVIL PLANS.
6. FOUNDATION WEEP SCREED AT STUCCO TERMINATION.
7. BOND BEAM, SEE STRUCTURAL DRAWINGS.
8. PRECAST CONCRETE LINTEL, SEE STRUCTURAL DRAWINGS.
9. PEMB METAL PANEL BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
10. TRANSITION TRIM PIECE BY PEMB COMPANY. DESIGN INTENT IS FOR FACE OF METAL WALL PANEL TO ALIGN FLUSH WITH THE FACE OF THE ADJACENT STUCCO.
11. SIGNAGE BY OTHERS. DESIGN IS SCHEMATIC.
12. PRE-ENGINEERED ALUMINUM AWNING. CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION AND FOR PERMITTING AS REQUIRED. ATTACHMENT TO BUILDING TO BE COORDINATED WITH STRUCTURAL DRAWINGS.
13. ISOLATION JOINT, SEE STRUCTURAL DRAWINGS.
14. 5/8" GYPSUM BOARD, SEE WALL TYPES.
17. LIGHT GAUGE METAL STUD FRAMING , SEE WALL TYPES.
18. 1-1/2" "Z" FURRING CHANNELS WITH RIGID INSULATION.
19. CONCRETE BEAM SEE STRUCTURAL DRAWINGS .
21. STEEL COLUMN. SEE STRUCTURAL DRAWINGS.
22. ALIGN METAL STUD WALL WITH ADJACENT FURRING ON CMU SO THAT GYP. BD ALIGNS FLUSH WITH SEAMLESS TRANSITION.
23. J MOLDING/STUCCO TERMINATION TRIM.
24. 4" THICK, REINFORCED CONCRETE SLAB. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
25. ALUMINUM SOFFIT PANELS WITH MATCHING EDGE CHANNELS, INSTALL PER FLORIDA PRODUCT APPROVAL REQUIREMENTS
27. EXPOSED CMU BELOW STUCCO TERMINATION (FROM BOTTOM OF WEEP SCREED TO FINISHED GRADE) TO BE FINISHED WITH BLOCK FILLER AND PAINT. STUCCO TERMINATION TO BE MIN 2" ABOVE ADJACENT PAVED SURFACE OR 4" MIN ABOVE FINISHED GRADE.

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
WALL & COLUMN DETAILS

SHEET NO:
A-503

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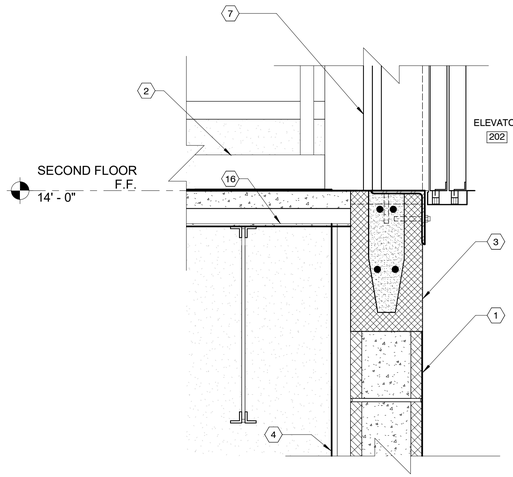
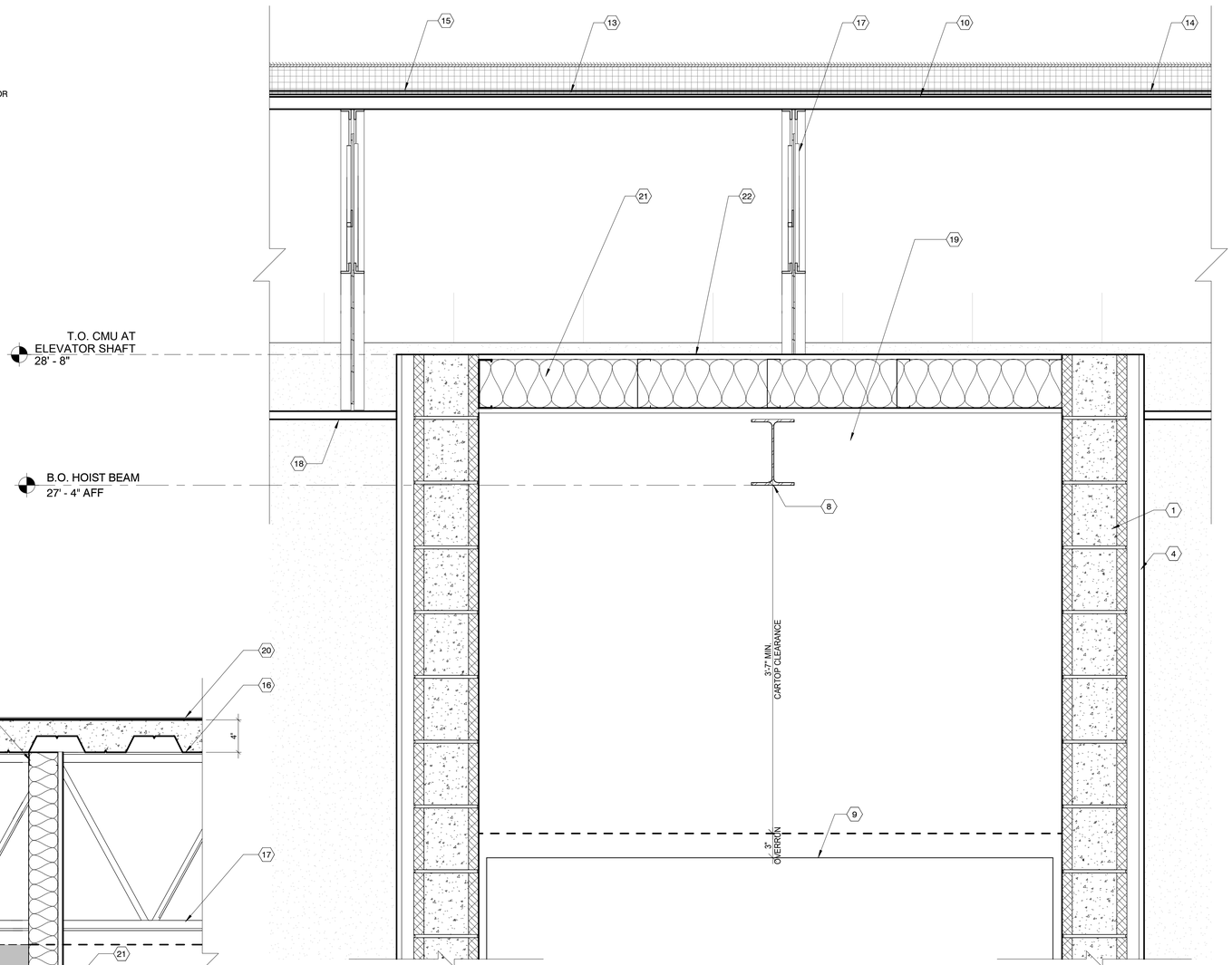


NOTE: REFER TO STRUCTURAL DRAWINGS AND ELEVATOR SHOP DRAWINGS FOR ADDITIONAL INFORMATION.

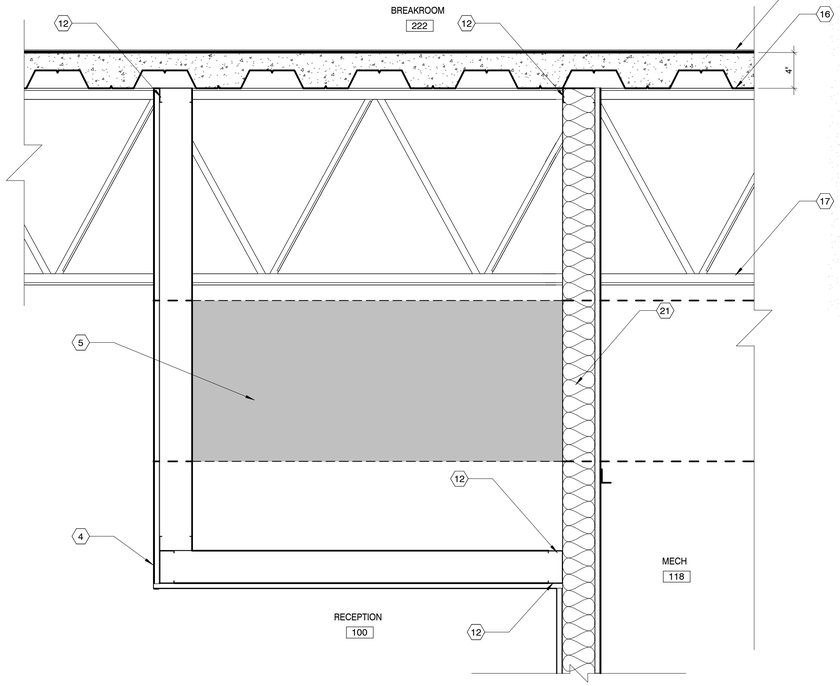
2 **COMPOSIT DECK TO CONCRETE BEAM CONNECTION**

1 1/2" = 1'-0"



3 **FIRE RATED CEILING ASSEMBLY**

1 1/2" = 1'-0"



1 **SOFFIT DETAIL TYP.**

1 1/2" = 1'-0"

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SHEET NOTES

1. CMU BLOCK, SEE STRUCTURAL DRAWINGS. JOINTS TO BE STRUCK FLUSH FOR STUCCO APPLICATION.
2. WALL BASE, SEE ROOM FINISH SCHEDULE.
3. BOND BEAM, SEE STRUCTURAL DRAWINGS.
4. 5/8" GYPSUM BOARD ON METAL STUD, SEE WALL TYPES.
5. MECHANICAL DUCTWORK, SEE MECHANICAL DRAWINGS.
7. ELEVATOR DOOR, BY ELEVATOR MANUFACTURER. SEE SPECIFICATIONS. GC TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION.
8. HOISTWAY SAFETY BEAM, SEE STRUCTURAL DRAWINGS.
9. MOWREY HOLELESS MACHINE ROOM LESS HYDRAULIC ELEVATOR, BY MANUFACTURER.
10. ROOF DECK, SEE STRUCTURAL DRAWINGS.
12. 3-5/8" LIGHT GAUGE METAL STUD SOFFIT FRAMING.
14. GAF STORM GUARD UNDERLAYMENT.
15. GAF TIMBERLINE HD SHINGLES.
16. STEEL DECK, SEE STRUCTURAL DRAWINGS.
17. BAR JOIST, SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
18. ACOUSTICAL CEILING, SEE REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE.
19. CMU WALL BEYOND.
20. FLOOR FINISH SEE ROOM FINISH PLAN AND SCHEDULE FOR MORE INFORMATION.
21. CONTINUOUS SOUND ATTENUATION BATT INSULATION FROM FLOOR TO BOTTOM OF DECK. SEE FLOOR PLAN AND WALL TYPES FOR MORE INFO.
22. 1-HOUR RATED CEILING ASSEMBLY, SEE UL SHEETS.

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NEW OFFICE BUILDING
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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:

24006

DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:

INTERIOR WALL DETAILS

SHEET NO:

A-504

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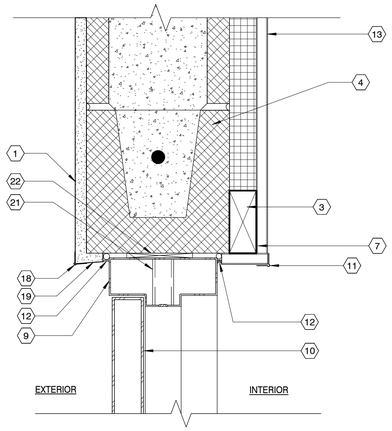
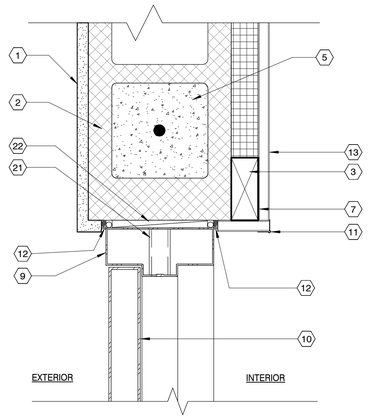


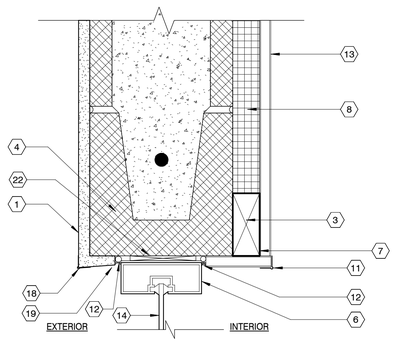
HEAD AT EXTERIOR DOOR TYP. (STUCCO)

1 — **3" = 1'-0"**



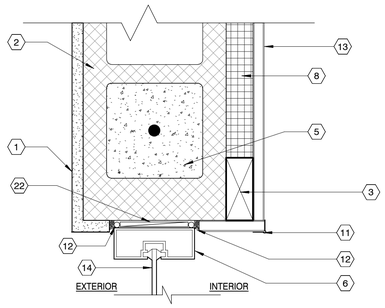
TYPICAL JAMB CMU EXTERIOR DOOR

4 — **3" = 1'-0"**



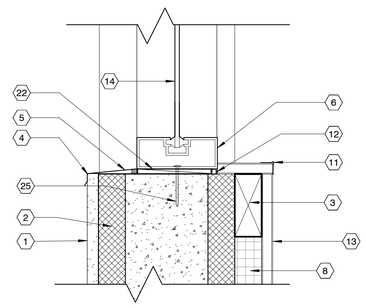
TYPICAL CMU STOREFRONT WINDOW HEAD

2 — **3" = 1'-0"**



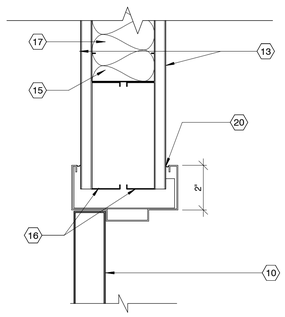
TYPICAL CMU STOREFRONT WINDOW JAMB

5 — **3" = 1'-0"**



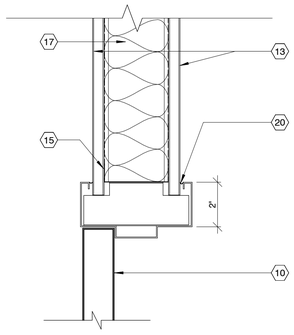
TYPICAL CMU STOREFRONT WINDOW SILL

8 — **3" = 1'-0"**



TYPICAL HEAD DETAIL AT INTERIOR DOOR WITH HOLLOW METAL FRAME

3 — **3" = 1'-0"**



TYPICAL JAMB DETAIL AT INTERIOR DOOR WITH HOLLOW METAL FRAME

7 — **3" = 1'-0"**

GENERAL NOTES:

- REFER TO FLOOR PLANS, ROOF PLAN, RCP, EXTERIOR ELEVATIONS, AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ALL EXTERIOR MATERIALS TO BE ATTACHED AND INSTALLED PER FLORIDA PRODUCT APPROVAL DETAILS AND REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO NOTIFY ARCHITECT IF ANY CONFLICTS FOUND IN REQUIREMENTS OR ANY UNCERTAINTY WITH REQUIREMENTS TO REQUEST CLARIFICATION PRIOR TO ORDERING PRODUCTS AND INSTALLING.

SHEET NOTES

1. 5/8" STUCCO, FINISH SMOOTH, PAINTED. SEE EXTERIOR ELEVATIONS.
2. 8" CMU BLOCK. JOINTS TO BE STRUCK FLUSH ON EXTERIOR FOR STUCCO APPLICATION.
3. 2x4 PT BLOCKING.
4. PRE-CAST LINTEL. SEE STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE.
5. CONCRETE GROUT FILLED CELL. SEE STRUCTURAL DRAWINGS.
6. STOREFRONT FRAME, SEE STOREFRONT ELEVATIONS AND ARCHITECTURAL SPECIFICATIONS FOR REQUIREMENTS.
7. 1 1/2" LIGHT GAUGE FURRING "Z", 16 O.C. .
8. R - 7.5 RIGID INSULATION.
9. PAINTED HOLLOW METAL DOOR FRAME, SEE DOOR ELEVATIONS & SCHEDULE.
10. DOOR PANEL, SEE DOOR ELEVATIONS & SCHEDULE.
11. CONTINUOUS CORNER BEAD.
12. CONTINUOUS BACKER ROD AND SEALANT. SEALANT COLOR TO MATCH ADJACENT FINISH.
13. 5/8" GYPSUM WALL BOARD WITH PAINT FINISH. SEE ROOM FINISH SCHEDULE.
14. STOREFRONT GLAZING,TO BE IMPACT RATED AND INSULATED. SEE WINDOW ELEVATIONS AND ARCHITECTURAL SPECIFICATIONS FOR REQUIREMENTS.
15. METAL STUDS AT 24" O.C. SEE WALL TYPES AND DETAILS.
16. 6" 16 GA METAL STUD HEADER.
17. BATT INSULATION AS REQUIRED, SEE LOCATIONS ON FLOOR PLANS AND WALL TYPE DETAILS FOR REQUIREMENTS.
18. PROVIDE CONTINUOUS STUCCO DRIP AT HEAD OF WINDOW OPENING.
19. TOOLED DRIP EDGE, SLOPE DOWN TO EXTERIOR FOR DRAINAGE AWAY FROM WINDOW FRAME.
20. CONTINUOUS SEALANT, SEALANT COLOR TO MATCH ADJACENT FINISH.
21. MASONRY ANCHOR STRAP.
22. SHIM AS ALLOWED PER FLORIDA PRODUCT APPROVAL DETAILS.
23. PREFINISHED METAL SILL PAN FLASHING WITH WELDED END DAMS, PROVIDE POSITIVE SLOPE TO EXTERIOR TO DRAIN AWAY FROM WINDOW FRAME.
24. URETHANE SEALANT WITH BOND BREAK ROD, TYPICAL AT ALL SILLS. "BUTTER" ALL FLASHING PANS.
25. CONCRETE/CMU INSTALLATION SCREW PER FLORIDA PRODUCT APPROVAL.

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No.	Date	Revision

PROJECT NO:

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DATE:	5/30/2025
DESIGNED BY:	EAC/NP
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:

DOOR AND WINDOW DETAILS

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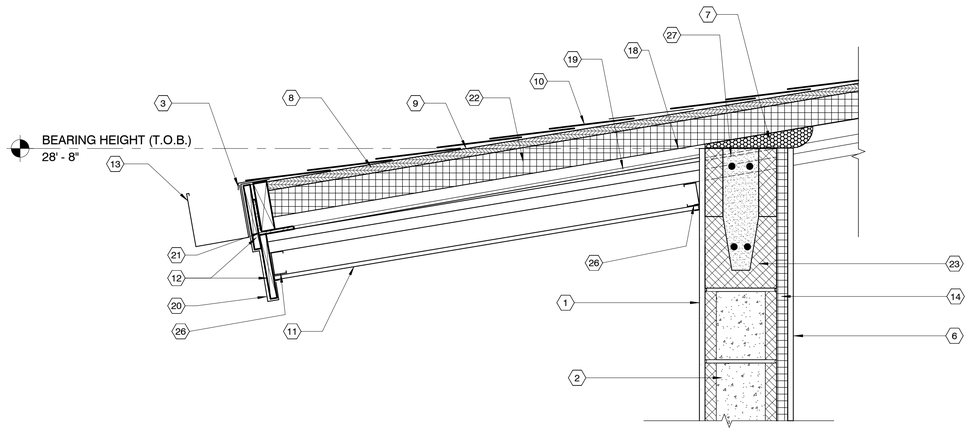
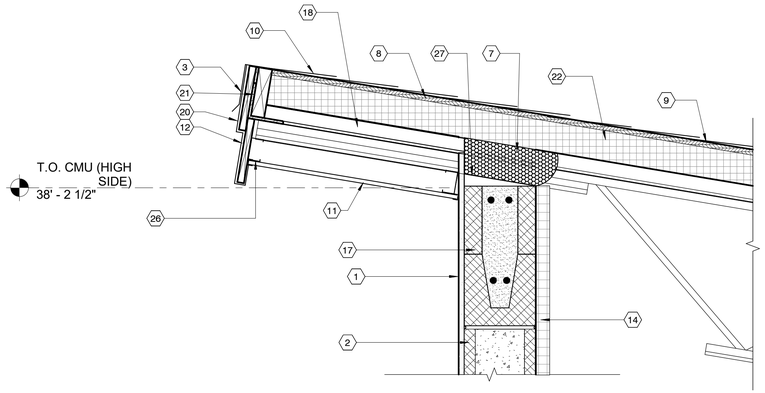
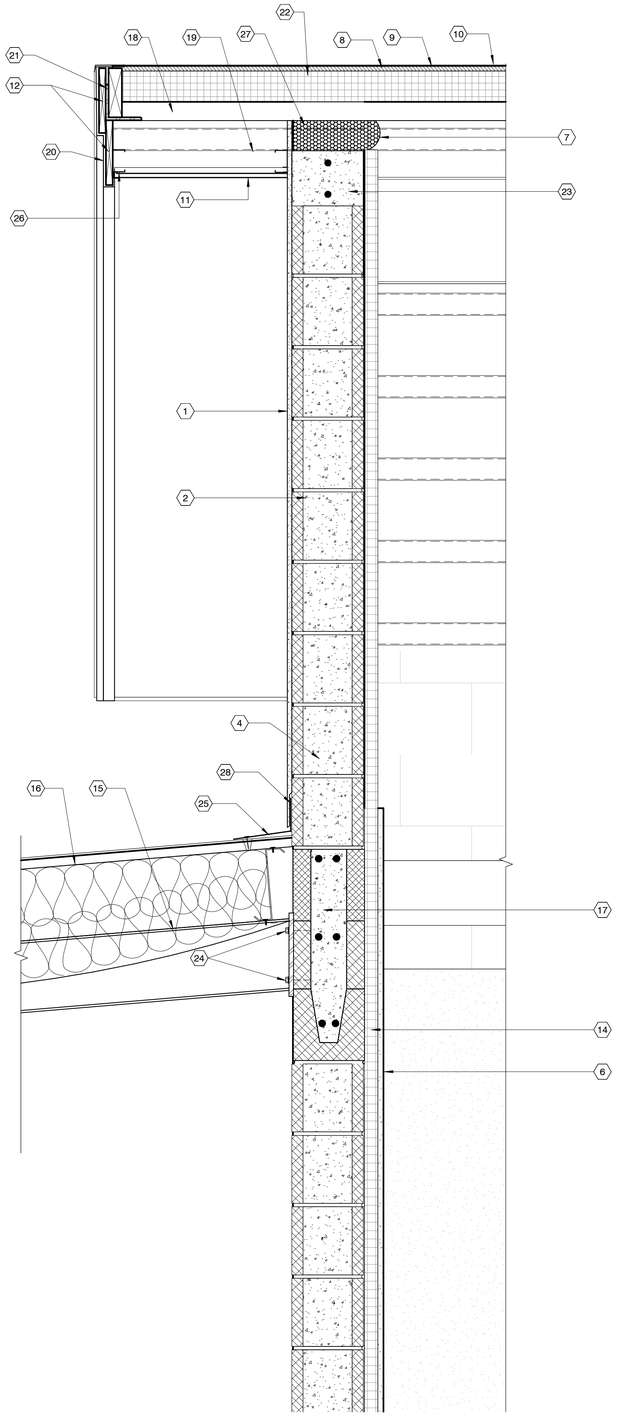
A-505





2 **TYPICAL DETAIL UPPER EAVE**

1 1/2" = 1'-0"



4 **PEMB ROOF TO CMU WALL**

1 1/2" = 1'-0"

GENERAL NOTES:

- REFER TO FLOOR PLANS, ROOF PLAN, RCP, EXTERIOR ELEVATIONS, AND STRUCTURAL FOR ADDITIONAL INFORMATION
- ALL OPENINGS, RUNS, CLEARANCES, FLOOR TRANSITIONS, AND ELEVATOR SHAFT & STAIR DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH THE FINAL ELEVATOR AND STAIR SHOP DRAWINGS AS PROVIDED BY THE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND SHALL COORDINATE AND IMPLEMENT ANY REQUIRED ADJUSTMENTS PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ACTIVITIES.

SHEET NOTES

1. 5/8" STUCCO APPLIED DIRECTLY TO CMU, SMOOTH, PAINTED FINISH. SEE WALL TYPES AND SPECIFICATIONS FOR MORE INFORMATION.
2. 8" CMU, SEE STRUCTURAL DRAWINGS. JOINTS TO BE STRUCK FLUSH FOR STUCCO APPLICATION.
3. EXTERIOR DRIP EDGE.
4. BOND BEAM, SEE STRUCTURAL DRAWINGS.
5. PEMB METAL PANEL BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
6. 5/8" GYPSUM BOARD ON METAL STUD, SEE WALL TYPES.
7. CONTINUOUS MIN CLOSED CELL SPRAY FOAM INSULATION AT BOTTOM OF ROOF DECK AND TOP OF WALL. DESIGN INTENT IS TO CREATED A SEALED SPACE. FILL AND SEAL ALL GAPS AND PENETRATIONS.
8. PLYWOOD SHEATHING.
9. SELF-ADHERING POLYMER MODIFIED BITUMEN UNDERLAYMENT, SEE ARCHITECTURAL SPECIFICATIONS.
10. ARCHITECTURAL SHINGLE ROOFING, SEE ARCHITECTURAL SPECIFICATIONS.
11. ALUMINUM SOFFIT PANELS WITH MATCHING EDGE CHANNELS.
12. 1" X 8" PT / FT FASCIA BOARD.
13. CONTINUOUS BOX GUTTER, SEE ROOF PLAN.
14. 1-1/2" "Z" FURRING CHANNELS WITH R-7.5 RIGID INSULATION .
15. BEAM BY PEMB COMPANY.
16. VINYL-FACED BATT INSULATION BY PEMB COMPANY, MIN R-13.
17. CONCRETE BEAM SEE STRUCTURAL DRAWINGS.
18. STEEL DECK, SEE STRUCTURAL DRAWINGS.
19. OUTRIGGERS, SEE STRUCTURAL DRAWINGS.
20. ALUMINUM FASCIA, WRAP/HOOK OVER BOTTOM OF FASCIA BOARD.
21. CONTINUOUS STEEL ANGLE, SEE STRUCTURAL DRAWINGS.
22. 4" HUNTER H-SHIELD NB, SEE ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. INSTALL PER FLORIDA PRODUCT APPROVAL DETAILS.
23. RAKE BEAM. SEE STRUCTURAL DRAWINGS.
24. ANCHOR BOLTS.BY PEMB COMPANY.
25. WALL TO ROOF FLASHING.BY PEMB COMPANY.
26. 2 1/2" METAL SOFFIT FRAMING.
27. NARROW SLOT CUTOUT IN TOP OF CMU AT EACH JOIST LOCATION TO ALLOW FOR "RECESSED " JOIST SEAT. SEE STRUCTURAL.
28. STUCCO REGLET AND FLASHING, BASIS OF DESIGN: FRYREGLET "ST" STUCCO REGLET AND SPRINGLOK FLASHING.

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NEW OFFICE BUILDING
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FLORIDA, 33716

No.	Date	Revision

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DESIGNED BY:	EAC
DRAWN BY:	JG
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:

ROOF AND GUTTER DETAILS

SHEET NO:

A-506

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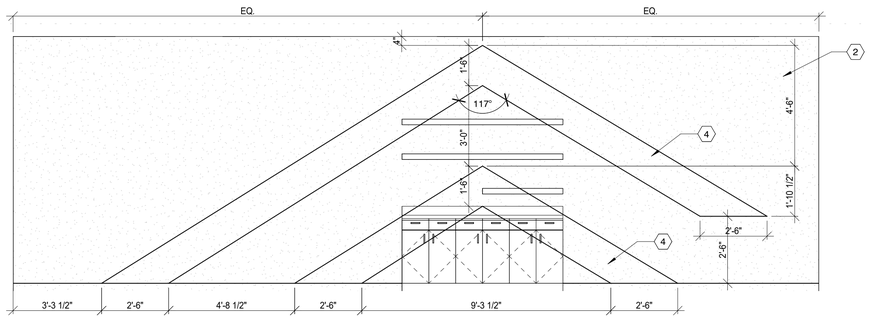
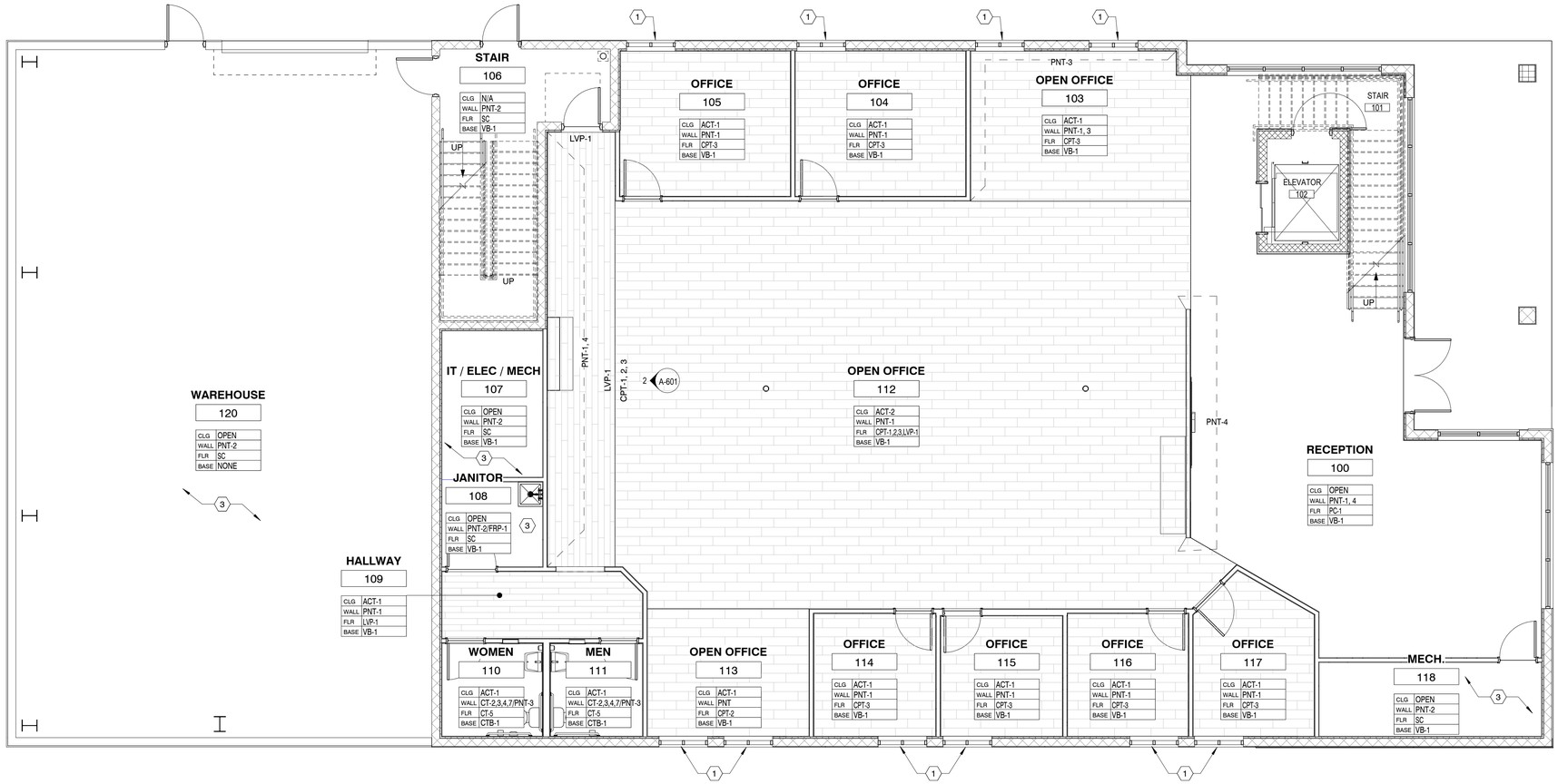


2 **ELEVATION - WALL PAINT DESIGN COFFEE BAR**

3/8" = 1'-0"



1 **FINISH PLAN - FIRST FLOOR**

3/16" = 1'-0"

GENERAL NOTES

- REFER TO INTERIOR ROOM FINISH SCHEDULE FOR MORE INFORMATION.
- WORKMANSHIP SHALL BE THE BEST OF ITS RESPECTIVE KINDS FOR EACH OF THE TRADES EMPLOYED.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. SUBSTRATE SHALL BE SMOOTH, FREE OF DEFECTS, AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- ALTERNATE FLOOR ADHESIVE: FLOOR COVERING MANUFACTURER'S RECOMMENDED PRODUCT, SUITABLE FOR MOISTURE AND PH CONDITIONS PRESENT AND MEET LOW-VOC REQUIREMENTS, SHALL BE USED. IF NO RECOMMENDATIONS FROM FLOORING MANUFACTURER ARE AVAILABLE, PROVIDE PRODUCT RECOMMENDED BY ADHESIVE MANUFACTURER AS SUITABLE FOR SUBSTRATE, FLOOR COVERING, AND CONDITIONS PRESENT.
- PROVIDE AND CONTINUE SCHEDULED FLOORING PARTITION TO PARTITION AND UNDER MILLWORK, UNLESS NOTED OTHERWISE.
- ALL FLOOR TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR WHEN DOOR IS IN CLOSED POSITION.
- PROVIDE TRANSITION STRIPS AT LOCATIONS WHERE DISSIMILAR MATERIALS MEET. ENSURE ALL TRANSITIONS ARE ADA COMPLIANT, 1/2" OR LESS CHANGE IN ELEVATION.
  - FROM POLISHED CONCRETE OR SEALED CONCRETE TO CARPET OR LVP, OR LVP TO CERAMIC TILE, USE SCHLUTER RENO-V TRANSITION STRIP
- ANY SUBSTITUTIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW. SEE ARCHITECTURAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS FOR ALL SUBSTITUTIONS.
- ALL MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S LATEST PRINTED SPECIFICATIONS AND WITH CODE REQUIREMENTS.

FLOORING
- ALL FLOORING TO BE SLIP RESISTANT IN ACCORDANCE WITH ICC/ANSI A117.1-2009 SECTION 302.1

CEILINGS
- ALL GWB CEILINGS AND SOFFITS TO BE PAINTED PNT-9, FLAT FINISH, UNLESS NOTED OTHERWISE.
- PAINT ALL ACCESS PANELS IN CEILINGS TO MATCH ADJACENT CEILING COLOR.
- PAINT ALL ELEMENTS AND STRUCTURE EXPOSED ABOVE CEILING IN RECEPTION 100 PNT-8, UNLESS NOTED OTHERWISE.
- REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS

DOORS
- ALL WOOD DOORS TO BE STAINED. SEE INTERIOR FINISH SCHEDULE.
- ALL HM DOORS TO BE PAINTED. SEE INTERIOR FINISH SCHEDULE.
- ALL HM DOOR FRAMES TO BE PAINTED. SEE INTERIOR FINISH SCHEDULE.

WALLS
- GC TO PROVIDE A 48" x 48" PAINTED AREA FOR EACH COLOR AND FINISH SPECIFIED ON SUBSTRATE SCHEDULED FOR EACH COLOR.
- ALL WALLS TO RECEIVE A LEVEL 4 DRYWALL FINISH
- PAINT ALL WALLS PNT-1, EGGSHELL FINISH, UNLESS NOTED OTHERWISE. SEE INTERIOR FINISH SCHEDULE.
- ALL BASE TO BE VB-1, UNLESS NOTED OTHERWISE.

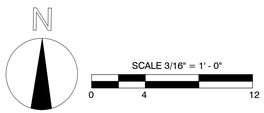
SHEET NOTES

1. INSTALL WINDOW TREATMENT ON THIS WINDOW. SEE ARCHITECTURAL SPECIFICATIONS, ROOM FINISH SCHEDULE.
2. PAINTED GYPSUM BOARD, PNT-1
3. ALL WALLS TO RECEIVE SEMI-GLOS PAINT FINISH, SEE ARCHITECTURAL SPECIFICATIONS
4. PAINTED GYPSUM BOARD, PNT-4

FLOOR FINISH LEGEND

9"x36" CARPET TILE PLANK

6"x48" LUXURY VINYL PLANK



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FLORIDA, 33716

No.	Date	Revision

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DATE:	5/30/2025
DESIGNED BY:	MM
DRAWN BY:	MM
CHECKED BY:	EAC/NP/MM

DRAWING TITLE:
FINISH FLOOR PLAN - FIRST FLOOR

SHEET NO:
A-601

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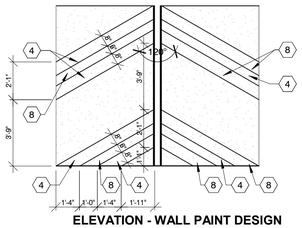
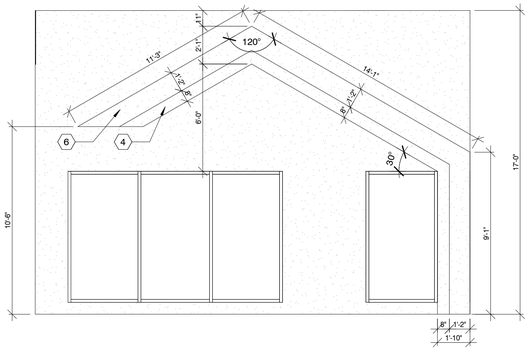


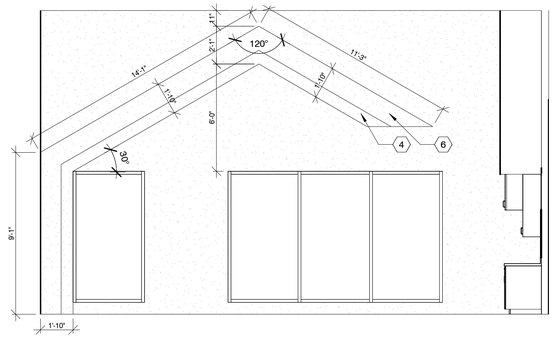
A | ELEVATION - WALL PAINT DESIGN FOCUS ROOMS

1/4" = 1'-0"



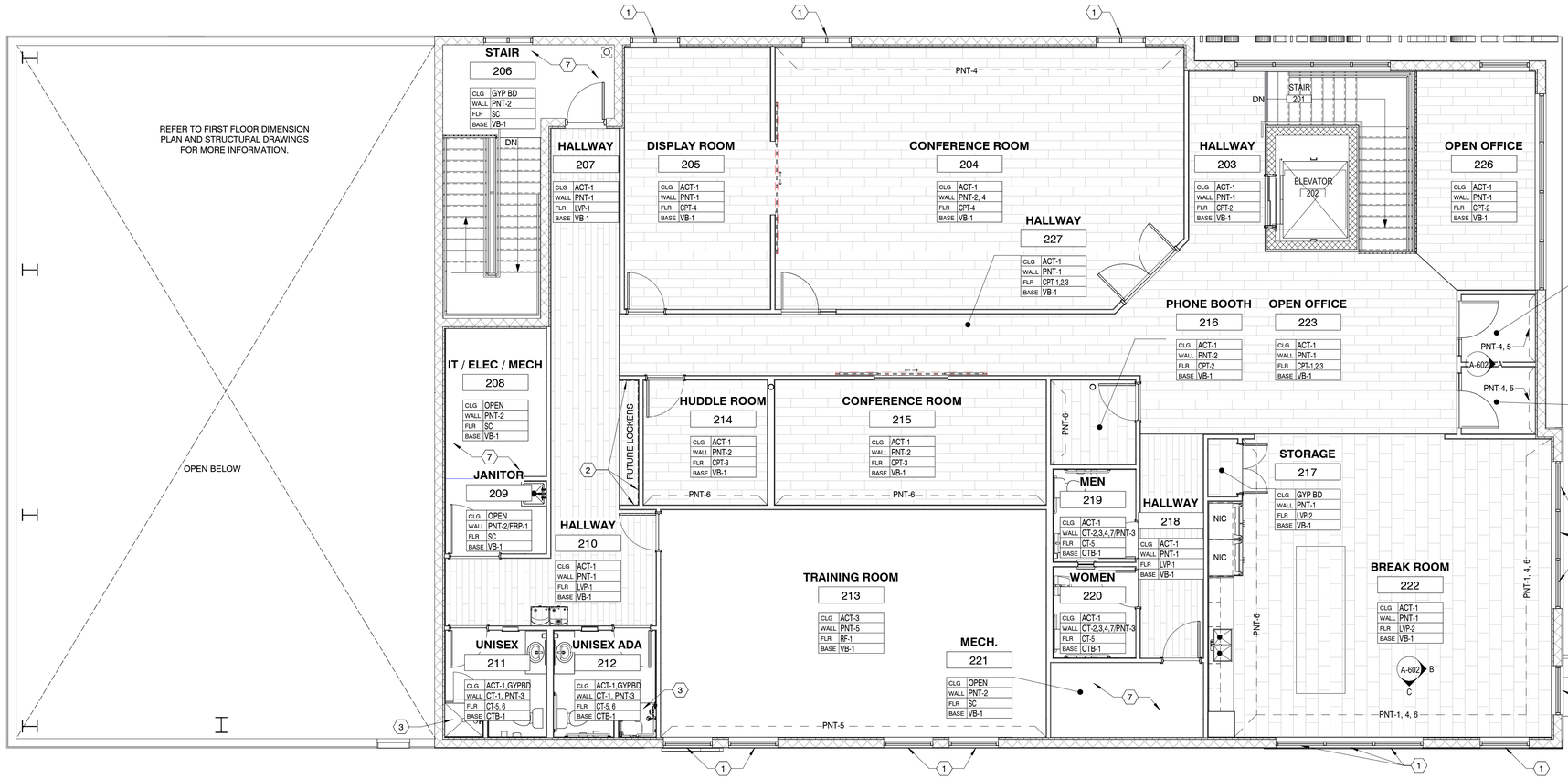
B | ELEVATION - WALL PAINT DESIGN BREAK ROOM

1/4" = 1'-0"



C | ELEVATION - WALL PAINT DESIGN BREAK ROOM

1/4" = 1'-0"



1 | FINISH PLAN - SECOND FLOOR

3/16" = 1'-0"

N

SCALE 3/16" = 1' - 0"

0 4 12

GENERAL NOTES

- REFER TO INTERIOR ROOM FINISH SCHEDULE FOR MORE INFORMATION.
- WORKMANSHIP SHALL BE THE BEST OF ITS RESPECTIVE KINDS FOR EACH OF THE TRADES EMPLOYED.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. SUBSTRATE SHALL BE SMOOTH, FREE OF DEFECTS, AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- ALTERNATE FLOOR ADHESIVE: FLOOR COVERING MANUFACTURER'S RECOMMENDED PRODUCT, SUITABLE FOR MOISTURE AND PH CONDITIONS PRESENT AND MEET LOW-VOC REQUIREMENTS, SHALL BE USED. IF NO RECOMMENDATIONS FROM FLOORING MANUFACTURER ARE AVAILABLE, PROVIDE PRODUCT RECOMMENDED BY ADHESIVE MANUFACTURER AS SUITABLE FOR SUBSTRATE, FLOOR COVERING, AND CONDITIONS PRESENT.
- PROVIDE AND CONTINUE SCHEDULED FLOORING PARTITION TO PARTITION AND UNDER MILLWORK, UNLESS NOTED OTHERWISE.
- ALL FLOOR TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR WHEN DOOR IS IN CLOSED POSITION.
- PROVIDE TRANSITION STRIPS AT LOCATIONS WHERE DISSIMILAR MATERIALS MEET. ENSURE ALL TRANSITIONS ARE ADA COMPLIANT, 1/2" OR LESS CHANGE IN ELEVATION.
  - FROM POLISHED CONCRETE OR SEALED CONCRETE TO CARPET OR LVP, OR LVP TO CERAMIC TILE, USE SCHLUTER RENO-V TRANSITION STRIP
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FLOORING
- ALL FLOORING TO BE SLIP RESISTANT IN ACCORDANCE WITH ICC/ANSI A117,1-2009 SECTION 302.1

CEILINGS
- ALL GWB CEILINGS AND SOFFITS TO BE PAINTED PNT-9, FLAT FINISH, UNLESS NOTED OTHERWISE.
- PAINT ALL ACCESS PANELS IN CEILINGS TO MATCH ADJACENT CEILING COLOR.
- PAINT ALL ELEMENTS AND STRUCTURE EXPOSED ABOVE CEILING IN RECEPTION 100 PNT-8, UNLESS NOTED OTHERWISE.
- REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS

DOORS
- ALL WOOD DOORS TO BE STAINED. SEE INTERIOR FINISH SCHEDULE.
- ALL HM DOORS TO BE PAINTED. SEE INTERIOR FINISH SCHEDULE.
- ALL HM DOOR FRAMES TO BE PAINTED. SEE INTERIOR FINISH SCHEDULE.

WALLS
- GC TO PROVIDE A 48" x 48" PAINTED AREA FOR EACH COLOR AND FINISH SPECIFIED ON SUBSTRATE SCHEDULED FOR EACH COLOR.
- ALL WALLS TO RECEIVE A LEVEL 4 DRYWALL FINISH
- PAINT ALL WALLS PNT-1, EGGSHELL FINISH, UNLESS NOTED OTHERWISE. SEE INTERIOR FINISH SCHEDULE.
- ALL BASE TO BE VB-1, UNLESS NOTED OTHERWISE.

SHEET NOTES

1 INSTALL WINDOW TREATMENT ON THIS WINDOW. SEE ARCHITECTURAL SPECIFICATIONS AND ROOM FINISH SCHEDULE.
2 PAINT ALL WALLS IN NICHE PNT-1
3 INSTALL CT-6 ON SHOWER FLOOR ONLY
4 PAINTED GYPSUM BOARD, PNT-4, SEE ROOM FINISH SCHEDULE
6 PAINTED GYPSUM BOARD, PNT-6, SEE ROOM FINISH SCHEDULE
7 ALL WALLS TO RECEIVE SEMI-GLOS PAINT FINISH, SEE ARCHITECTURAL SPECIFICATIONS
8 PAINTED GYPSUM BOARD, PNT-5, SEE ROOM FINISH SCHEDULE

FLOOR FINISH LEGEND

- 9"x36" CARPET TILE PLANK
- 6"x48" LUXURY VINYL PLANK
- 12"x24" LUXURY VINYL TILE

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BALDWIN ROOFING CO.

BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:

24006

DATE: 5/30/2025
DESIGNED BY: MM
DRAWN BY: MM
CHECKED BY: EAC/NP/MM

DRAWING TITLE:

FINISH FLOOR PLAN - SECOND FLOOR

SHEET NO:

A-602

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DOOR & FRAME SCHEDULE

MARK	TYPE	DOORS			MATERIAL	DOORS	FRAME		FIRE RATING	HARDWARE	REMARKS
		SIZE				GLAZING	TYPE	MATERIAL			
		WIDTH	HEIGHT	THICKNESS							
100A	1	3'-0" (PR)	7'-10"	BY MFG	AL	Y	A	AL	- -	1	
102A	BY MFG	4'-0"	7'-0"	- -	- -	N	- -	- -	- -	BY MFG	1
102B	7	3'-0"	7'-0"	0'-1-3/4"	HM	N	F	HM	45-MIN	10	
104A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	14	
105A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	14	
106A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	45-MIN	15	
106B	7	3'-0"	7'-0"	0'-1-3/4"	HM	N	E	HM	- -	3	
106C	10	3'-0"	7'-0"	0'-1-3/4"	HM	Y	F	HM	45-MIN	13	
108A	8	4'-0"	7'-0"	0'-1-3/4"	SCW	N	G	HM	- -	9	
110A	7	3'-0"	7'-0"	0'-1-3/4"	SCW	N	F	HM	- -	4	
111A	7	3'-0"	7'-0"	0'-1-3/4"	SCW	N	F	HM	- -	4	
114A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	14	
115A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	14	
116A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	14	
117A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	14	
118A	7	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	8	
120A	12	12'-0"	14'-0"	BY MFG	STEEL	N	- -	- -	- -	16	
120B	7	3'-0"	7'-0"	0'-1-3/4"	HM	N	F	HM	- -	2	
202A	BY MFG	4'-0"	7'-0"	BY MFG	- -	N	- -	- -	- -	BY MFG	1
204A	2	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	B	HM	- -	6	
204B	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	H	HM		5	
204C	5	3'-0" (PR)	7'-0"	0'-1-3/4"	SCW	N	D	- -	- -	17	
205A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	12	
206A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	N	F	HM	- -	15	
209A	8	4'-0"	7'-0"	0'-1-3/4"	SCW	N	G	HM	45-MIN	11	
211A	7	3'-0"	7'-0"	0'-1-3/4"	SCW	N	F	HM	- -	4	
211B	11	2'-6"	6'-0"	0'-3/8"	GL	Y	- -	- -	- -	BY MFG	2
212A	7	3'-0"	7'-0"	0'-1-3/4"	SCW	N	F	HM	- -	4	
213A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	12	
214A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	14	
215A	4	3'-0" (PR)	7'-0"	0'-1-3/4"	SCW	Y	D	- -	- -	17	
216A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	F	HM	- -	14	
217A	3	2'-0" (PR)	7'-0"	0'-1-3/4"	SCW	N	C	HM	- -	7	
219A	7	3'-0"	7'-0"	0'-1-3/4"	SCW	N	F	HM	- -	4	
220A	7	3'-0"	7'-0"	0'-1-3/4"	SCW	N	F	HM	- -	4	
221A	7	3'-0"	7'-0"	0'-1-3/4"	SCW	N	F	HM	- -	8	
224A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	H	HM	- -	14	
225A	9	3'-0"	7'-0"	0'-1-3/4"	SCW	Y	H	HM	- -	14	

DOOR & FRAME SCHEDULE NOTES:

1. ELEVATOR DOOR BY ELEVATOR MANUFACTURER. CONTRACTOR TO SUBMIT SHOP DRAWINGS.
2. 3/8" TEMPERED, FRAMELESS, DOUBLE SWING GLASS SHOWER DOOR WITH HANDLE

DOOR & FRAME SCHEDULE ABBREVIATIONS

ADC	AUTOMATIC DOOR CLOSER	GL	GLASS	NA	NOT APPLICABLE
ALUM	ALUMINUM	GLZ	GLAZING	OH DR	OVERHEAD COILING
ANOD	ANODIZE	GRL	GRILLE	PR	PAIR
AUTO	AUTOMATIC	HGT	HEIGHT	PT	PAINT
CLWG	CLEAR WIRED GLASS	HM	HOLLOW METAL	RO	ROUGH OPENING
DBL	DOUBLE	HMD	HOLLOW METAL DOOR	SCW	SOLID CORE WOOD
DR CL	DOOR CLOSER	HO	HOLD OPEN	SGL	SINGLE
DRH	DOOR HOLDER	HORIZ	HORIZONTAL	SST	STAINLESS STEEL
DRLV	DOOR LOUVER	IF	INSIDE FACE	THK	THICKNESS
DRST	DOOR STOP	INSUL	INSULATION	TMPD GL	TEMPERED GLASS
EF	EACH FACE	INT	INTERIOR	TYP	TYPICAL
EL	ELEVATION	KPL	KICK PLATE	UC	UNDERCUT
EQ	EQUAL	LAM GL	LAMINATED GLASS	UNFIN	UNFINISHED
FCTY	FACTORY	LVD	LOUVERED	VAR	VARIES
FD	FIRE DOOR	MANUF	MANUFACTURER	VIF	VERIFY IN FIELD
FIN	FINISH	MKD	MASTER KEYED	WD	WOOD

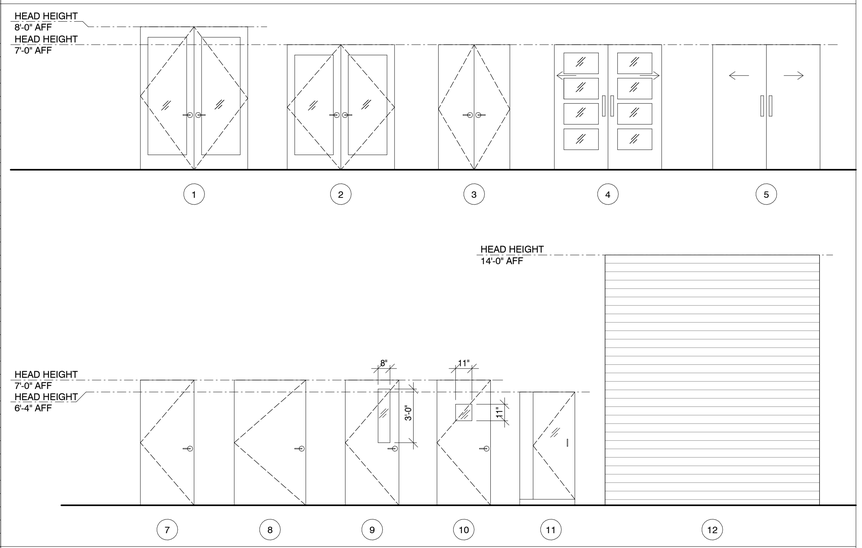
GENERAL DOOR NOTES

- SIZES LISTED ARE NOMINAL. VERIFY SIZES IN FIELD. VERIFY SIZES AND INSTALLATION REQUIREMENTS WITH MANUFACTURER.
- ALL GLAZING IN DOORS TO BE TEMPERED GLASS
- ALL GLAZING IN EXTERIOR DOORS TO BE CLEAR, INSULATED, IMPACT RESISTANT LOW-E GLASS
- ALL DOORS TO HAVE ADA COMPLIANT LEVER HANDLES
- ALL EXTERIOR DOORS TO HAVE ADA COMPLIANT THRESHOLDS
- SIGNED AND SEALED SHOP DRAWINGS TO BE PROVIDED FOR ALL STOREFRONT DOORS FOR REVIEW BY ARCHITECT AND ENGINEER, MANUFACTURERS TO PROVIDE ATTACHMENT DETAILS TO STRUCTURAL MEMBERS.
- GENERAL CONTRACTOR TO PROVIDE SHOP DRAWINGS/SUBMITTALS FOR ALL DOOR HARDWARE FOR APPROVAL BY OWNER AND ARCHITECT PRIOR TO ORDERING.
- GENERAL CONTRACTOR SHALL COORDINATE KEYING REQUIREMENTS WITH OWNER.
- ALL HARDWARE SHALL MATCH PERTAINING TO OVERALL AESTHETICS
- ALL HARDWARE TO BE ADA COMPLIANT LEVER WITH ADA LOCKS AND ACTIONS.
- SEE ARCHITECTURAL SPECIFICATIONS FOR MORE DETAILS

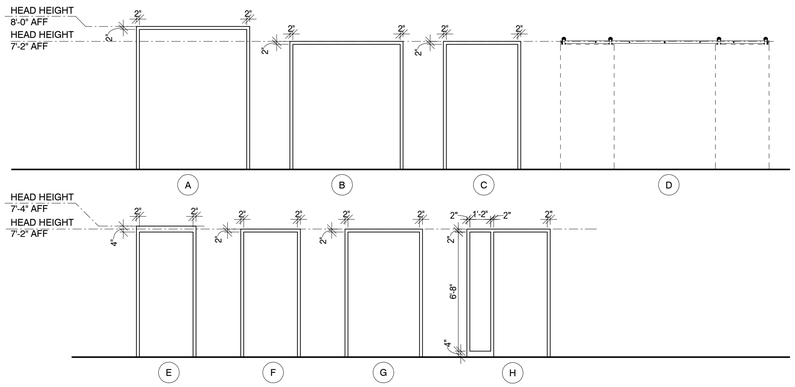
GENERAL WINDOW NOTES

- WINDOW DIMENSIONS, WHERE SHOWN, INDICATE ROUGH OPENING SIZES. FIELD VERIFY ALL WINDOW OPENING DIMENSIONS PRIOR TO FABRICATIONS OR MANUFACTURING OF ANY WINDOWS.
- ALL STOREFRONT WINDOW HEAD HEIGHTS ARE FROM FINISHED FLOOR. GC TO REFER TO EXTERIOR ELEVATIONS FOR FLOOR FINISH ELEVATIONS AS WINDOWS OCCUR ON FIRST AND SECOND FLOORS.
- ALL GLAZING TO BE TEMPERED GLASS AS SPECIFIED BY FBC.
- ALL INTERIOR GLAZING SHALL BE CLEAR, SINGLE PANE GLASS 1/4" NOMINAL IN HOLLOW METAL FRAMES.
- ALL EXTERIOR STOREFRONT WINDOWS SHALL HAVE DOUBLE GLAZING, IMPACT RATED, LOW-E, TEMPERED GLAZING. SEE ARCHITECTURAL SPECIFICATIONS.
- ALL GLAZING IN RATED PARTITIONS OR DOORS TO BE FIRE GLASS.
- PROVIDE ROLLER SHADES FOR EXTERIOR WINDOWS. SEE FINISH PLANS AND ARCHITECTURAL SPECIFICATIONS.
- SEE ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR WINDOW TYPES.
- ALL EXTERIOR GLASS TO BE LOW-E GLASS

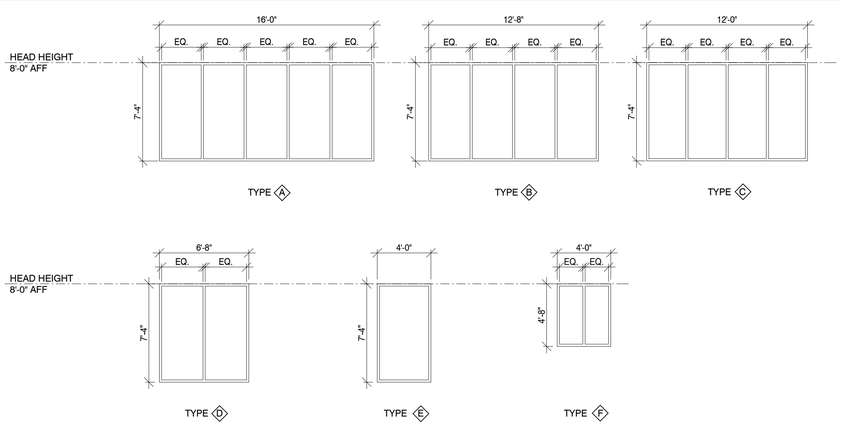
DOOR ELEVATION TYPES



FRAME ELEVATION TYPES



WINDOW ELEVATION TYPES



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No.	Date	Revision

PROJECT NO:
24006

DATE: 5/30/2025
DESIGNED BY: EAC/NP/MM
DRAWN BY: MM
CHECKED BY: EAC/NP/MM

DRAWING TITLE:
DOOR & WINDOW SCHEDULES

SHEET NO:
A-701

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR		WALLS												CEILINGS			REMARKS
				NORTH			EAST			SOUTH			WEST						
		MATERIAL	BASE	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	
100	RECEPTION	PC-1	VB-1	GYP BD	PAINT	PNT-1, 4	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-4	OPEN	PAINT	PNT-3	
101	STAIR			GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	NONE	NONE	NONE	
102	ELEVATOR	LVP-1	BY MFG	BY MFG	PLAM	TBD	BY MFG	PLAM	TBD	BY MFG	PLAM	TBD	STAINLESS STEEL		STAINLESS STEEL	STAINLESS STEEL	BRUSHED STEEL		1, 10
103	OPEN OFFICE	CPT-3	VB-1	GYP BD	PAINT	PNT-1, 3	GYP BD	PAINT	PNT-1	- -	- -	- -	GYP BD	PAINT	PNT-1, 3	ACT	ACT-1	WHITE	9
104	OFFICE	CPT-3	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	9
105	OFFICE	CPT-3	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	9
106	STAIR	SC	VB-1	CMU	PAINT	PNT-2	CMU	PAINT	PNT-2	CMU	PAINT	PNT-2	CMU	PAINT	PNT-2	NONE	NONE	NONE	
107	IT / ELEC / MECH	SC	VB-1	CMU	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT		OPEN	NONE	NONE	
108	JANITOR	SC	VB-1	GYP BD	PAINT/FRP	PNT-2/FRP-1	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT/FRP	PNT-2/FRP-1	OPEN	NONE	NONE	2
109	HALLWAY	LVP-1	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1, 4	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	10
110	WOMEN	CT-5	CTB-1	CBB	CT/PAINT	CT-2,3,4,7/PNT-3	MRGB	PAINT	PNT-3	CBB	CT/PAINT	CT-2,3,4,7/PNT-3	CBB	CT/PAINT	CT-2,3,4,7/PNT-3	ACT	ACT-1	WHITE	3, 4, 11
111	MEN	CT-5	CTB-1	CBB	CT/PAINT	CT-2,3,4,7/PNT-3	MRGB	PAINT	PNT-3	CBB	CT/PAINT	CT-2,3,4,7/PNT-3	CBB	CT/PAINT	CT-2,3,4,7/PNT-3	ACT	ACT-1	WHITE	3, 4, 11
112	OPEN OFFICE	CPT-1,2,3,LVP-1	VB-1	GYP BD	PAINT	PNT-1	GYP BD	VWC-1	TBD	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1, 4	ACT	ACT-2	WHITE	8, 10
113	OPEN OFFICE	CPT-2	VB-1	GYP BD	PAINT	PNT	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	9
114	OFFICE	CPT-3	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	9
115	OFFICE	CPT-3	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	9
116	OFFICE	CPT-3	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	9
117	OFFICE	CPT-3	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	9
118	MECH.	SC	VB-1	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	OPEN	NONE	NONE	
120	WAREHOUSE	SC	NONE	CMU	PAINT	PNT-2	CMU	PAINT	PNT-2	CMU	PAINT	PNT-2	CMU	PAINT	PNT-2	OPEN	NONE	NONE	
201	STAIR			GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	
203	HALLWAY	CPT-2	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	
204	CONFERENCE ROOM	CPT-4	VB-1	GYP BD	PAINT	PNT-2, 4	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	ACT	ACT-1	WHITE	9
205	DISPLAY ROOM	CPT-4	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	9
206	STAIR	SC	VB-1	CMU	PAINT	PNT-2	CMU	PAINT	PNT-2	CMU	PAINT	PNT-2	CMU	PAINT	PNT-2	GYP BD	PAINT	PNT-9	
207	HALLWAY	LVP-1	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	10
208	IT / ELEC / MECH	SC	VB-1	CMU	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	OPEN	NONE	NONE	
209	JANITOR	SC	VB-1	GYP BD	PAINT/FRP	PNT-2/FRP-1	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	OPEN	NONE	NONE	
210	HALLWAY	LVP-1	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	10
211	UNISEX	CT-5, 6	CTB-1	CBB	CT/PAINT	CT-1, PNT-3	CBB	CT/PAINT	CT-1, PNT-3	CBB	CT/PAINT	CT-1, PNT-3	CBB	CT/PAINT	CT-1, PNT-3	ACT/ MRGB	ACT-4 / PAINT	WHITE / PNT-9	5, 6, 11
212	UNISEX ADA	CT-5, 6	CTB-1	CBB	CT/PAINT	CT-1, PNT-3	CBB	CT/PAINT	CT-1, PNT-3	CBB	CT/PAINT	CT-1, PNT-3	CBB	CT/PAINT	CT-1, PNT-3	ACT/ MRGB	ACT-4 / PAINT	WHITE / PNT-9	5, 6, 11
213	TRAINING ROOM	RF-1	VB-1	GYP BD	PAINT	PNT-5	GYP BD	PAINT	PNT-5	GYP BD	PAINT	PNT-7	GYP BD	PAINT	PNT-5	ACT	ACT-3	BLACK	7
214	HUDDLE ROOM	CPT-3	VB-1	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-6	GYP BD	PAINT	PNT-2	ACT	ACT-1	WHITE	
215	CONFERENCE ROOM	CPT-3	VB-1	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-6	GYP BD	PAINT	PNT-2	ACT	ACT-1	WHITE	
216	PHONE BOOTH	CPT-2	VB-1	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-6	ACT	ACT-1	WHITE	
217	STORAGE	LVP-2	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-9	10
218	HALLWAY	LVP-1	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	10
219	MEN	CT-5	CTB-1	CBB	CT/PAINT	CT-2,3,4,7/PNT-3	MRGB	PAINT	PNT-3	MRGB	PAINT	CT-2,3,4,7/PNT-3	CBB	CT/PAINT	CT-2,3,4,7/PNT-3	ACT	ACT-1	WHITE	3, 4, 11
220	WOMEN	CT-5	CTB-1	MRGB	CT/PAINT	CT-2,3,4,7/PNT-3	MRGB	PAINT	PNT-3	CBB	PAINT	CT-2,3,4,7/PNT-3	CBB	CT/PAINT	CT-2,3,4,7/PNT-3	ACT	ACT-1	WHITE	3, 4, 11
221	MECH.	SC	VB-1	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	GYP BD	PAINT	PNT-2	OPEN	NONE	NONE	
222	BREAK ROOM	LVP-2	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1, 4, 6	GYP BD	PAINT	PNT-1, 4, 6	GYP BD/CBB	CT/PAINT	CT-7/PNT-6	ACT	ACT-1	WHITE	4, 10, 11
223	OPEN OFFICE	CPT-1,2,3	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	
224	FOCUS ROOM	CPT-1	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1, 4, 5	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	
225	FOCUS ROOM	CPT-1	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1, 4, 5	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	
226	OPEN OFFICE	CPT-2	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	
227	HALLWAY	CPT-1,2,3	VB-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	GYP BD	PAINT	PNT-1	ACT	ACT-1	WHITE	

ROOM FINISH LEGEND

TYPE	DESCRIPTION	MANUFACTURER	STYLE / MODEL	COLOR / FINISH	REMARKS
ACT-1	ACOUSTIC CEILING TILE - 2 x 2 x 3/4"	ARMSTRONG	ULTIMA SQUARE LAY-IN / 1910	WHITE	
ACT-2	ACOUSTIC CEILING TILE - 2 x 4 x 7/8"	ARMSTRONG	ULTIMA HIGH NRC SQUARE LAY-IN / 1940	WHITE	
ACT-3	ACOUSTIC CEILING TILE - 2 x 2 x 3/4"	ARMSTRONG	FINE FISSURED SQUARE LAY-IN / 1713	BLACK	
ACT-4	ACOUSTIC CEILING TILE - 2 x 2 x 5/8"	ARMSTRONG	CLEAN ROOM VL UNPERF. SQUARE LAY-IN / 868	WHITE	
CPT-1	CARPET	SHAW	SUSPEND TILE 9" x 36" / 5T391	QUIET 88535	
CPT-2	CARPET	SHAW	SUSPEND TILE 9" x 36" / 5T391	TBD	
CPT-3	CARPET	SHAW	SUSPEND TILE 9" x 36" / 5T391	BRANCH 88760	
CPT-4	CARPET	SHAW	SHELTER TILE 9" x 36" / 5T240	GREIGE 38516	
CT-1	CERAMIC WALL TILE	DALTILE	BRYNE 12" x 24" FLUTED WALL TILE	MIST BR31 / SATIN	
CT-2	CERAMIC WALL TILE	AMERICAN OLEAN	COLOR STORY WALL 4" x 16"	CALM 0035 / GLOSSY	
CT-3	CERAMIC WALL TILE	AMERICAN OLEAN	COLOR STORY WALL 4" x 16"	STABLE 0055 / GLOSSY	
CT-4	CERAMIC WALL TILE	AMERICAN OLEAN	COLOR STORY WALL 4" x 16"	DEPENDABLE 0053 / GLOSSY	
CT-5	CERAMIC FLOOR TILE	DALTILE	VOLUME 1.0 12" x 24" FLOOR TILE	INTENSITY PEBBLE VL72 / MATTE	
CT-6	CERAMIC FLOOR TILE	DALTILE	BRYNE 2" x 2" MOSAIC	MIST BR31 / MATTE	
CT-7	CERAMIC WALL TILE	AMERICAN OLEAN	COLOR STORY WALL 4" x 16"	RESTORE 0058 / GLOSSY	
CTB-1	CERAMIC TILE BASE	DALTILE	VOLUME 1.0 6" x 12" COVE BASE	INTENSITY PEBBLE VL72 / MATTE	
FRP-1	FIBERGLASS REINFORCED PLASTIC	PANOLAM SURFACE SYSTEMS	EMBOSSED FRP	SILVER	
GT-1	GROUT	LATICRETE	PERMACOLOR GROUT	60 DUSTY GRAY	
GT-2	GROUT	LATICRETE	PERMACOLOR GROUT	78 STERLING SILVER	
LVP-1	LUXURY VINYL PLANK	SHAW	BRANCHING OUT 5.0mm 6" x 48" / 4480V	RIVERSIDE OAK 56140	
LVP-2	LUXURY VINYL PLANK	SHAW	TERRACE 5.0mm 12" x 24" / 4216V	LOTUS 08111	
PC	POLISHED CONCRETE				
PLAM-1	PLASTIC LAMINATE	WILSONART	8220-38	FRENCH PEAR / FINE VELVET FINISH	
PLAM-2	PLASTIC LAMINATE	WILSONART	7987-38	PALISADES OAK / FINE VELVET FINISH	
PLAM-3	PLASTIC LAMINATE	WILSONART	7850-60	BEIGEWOOD / MATTE FINISH	
PNT-1	PAINT	SHERWIN WILLIAMS	SEE ARCHITECTURAL SPECIFICATIONS	7004 SNOWBOUND / SEE ARCHITECTURAL SPECIFICATIONS	
PNT-2	PAINT	SHERWIN WILLIAMS	SEE ARCHITECTURAL SPECIFICATIONS	7064 PASSIVE / SEE ARCHITECTURAL SPECIFICATIONS	
PNT-3	PAINT	SHERWIN WILLIAMS	SEE ARCHITECTURAL SPECIFICATIONS	6230 RAINSTORM / SEE ARCHITECTURAL SPECIFICATIONS	
PNT-4	PAINT	SHERWIN WILLIAMS	SEE ARCHITECTURAL SPECIFICATIONS	6787 FOUNTAIN / SEE ARCHITECTURAL SPECIFICATIONS	
PNT-5	PAINT	SHERWIN WILLIAMS	SEE ARCHITECTURAL SPECIFICATIONS	7017 DORIAN GRAY / SEE ARCHITECTURAL SPECIFICATIONS	
PNT-6	PAINT	SHERWIN WILLIAMS	SEE ARCHITECTURAL SPECIFICATIONS	6789 BLUE MOSQUE / SEE ARCHITECTURAL SPECIFICATIONS	
PNT-7	PAINT	SHERWIN WILLIAMS	SEE ARCHITECTURAL SPECIFICATIONS	6633 INVENTIVE ORANGE / SEE ARCHITECTURAL SPECIFICATIONS	
PNT-8	PAINT	SHERWIN WILLIAMS	SEE ARCHITECTURAL SPECIFICATIONS	7674 PEPPERCORN / SEE ARCHITECTURAL SPECIFICATIONS	
PNT-9	PAINT	SHERWIN WILLIAMS	SEE ARCHITECTURAL SPECIFICATIONS	7004 SNOWBOUND / SEE ARCHITECTURAL SPECIFICATIONS	
QZ-1	QUARTZ	WILSONART QUARTZ SELECT	PRODUCT TYPE 062 - 2cm	Q6024 TERLINGUA	
RF-1	RUBBER FLOORING	DINOFLEX	SPORTMAT FLOORING 38" x 38"	BLACK SBR 12MM - 01	
SC	SEALED CONCRETE				
VB-1	VINYL BASE	SHAW CONTRACT	4" x 0.080" COVE BASE / 172CA	35 SLATE	
VWC-1	VINYL WALLCOVERING	TBD	TBD	TBD	
WP-1	WALL PANELING	MONON	IKOS ACOUSTIC COLLECTION / NATOAK-WV	NATURAL OAK	
WDS-1	WOOD STAIN	MINWAX	MW409	TBD / SATIN FINISH	
WT-1	WINDOW TREATMENT	MECHO SHADE	MECHO5/5X / THERMOVEIL 1500 SERIES	TBD / 3% OPENESS	

REMARKS

1. PLASTIC LAMINATE FOR ELEVATOR WALLS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS
2. SEE INTERIOR ELEVATIONS FOR LOCATIONS AND DIMENSIONS OF FRP
3. USE GRT-1 FOR FLOOR GROUT, SEE ROOM FINISH LEGEND
4. USE GRT-2 FOR WALL GROUT, SEE ROOM FINISH LEGEND
5. USE GRT-1 FOR RESTROOM FLOOR AND GRT-2 FOR RESTROOM AND SHOWER WALLS AND SHOWER FLOOR, SEE ROOM FINISH LEGEND
6. PROVIDE HOT-DIPPED GALVANIZED CEILING GRID IN RESTROOMS WITH SHOWERS ONLY
7. CEILING GRID COLOR TO MATCH CEILING TILE COLOR, TYP.
8. INSTALL CARPET PLANKS USING ALL THREE COLORWAYS IN STAGGERED INSTALLATION METHOD. COLORS TO BE INSTALLED RANDOMLY WITH AN EVEN MIX OF ALL THREE COLORWAYS.
9. INSTALL CARPET PLANKS USING STAGGERED INSTALLATION METHOD
10. INSTALL LVP USING STAGGERED INSTALLATION METHOD
11. CBB - CEMENTITIOUS BACKER BOARD BEHIND WALL TILE LOCATIONS

GENERAL NOTES

- REFER TO ARCHITECTURAL SPECIFICATIONS, INTERIOR ELEVATIONS, AND ROOM FINISH SCHEDULE

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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006

DATE: 5/30/2025
DESIGNED BY: MM
DRAWN BY: MM
CHECKED BY: EAC/NP/MM

DRAWING TITLE:
FINISH SCHEDULE

SHEET NO:
A-702

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S-003	COMPONENTS AND CLADING DIAGRAM	•	•
S-101	FOUNDATION /GROUND FLOOR PLAN	•	•
S-102	SECOND FLOOR FRAMING PLAN	•	•
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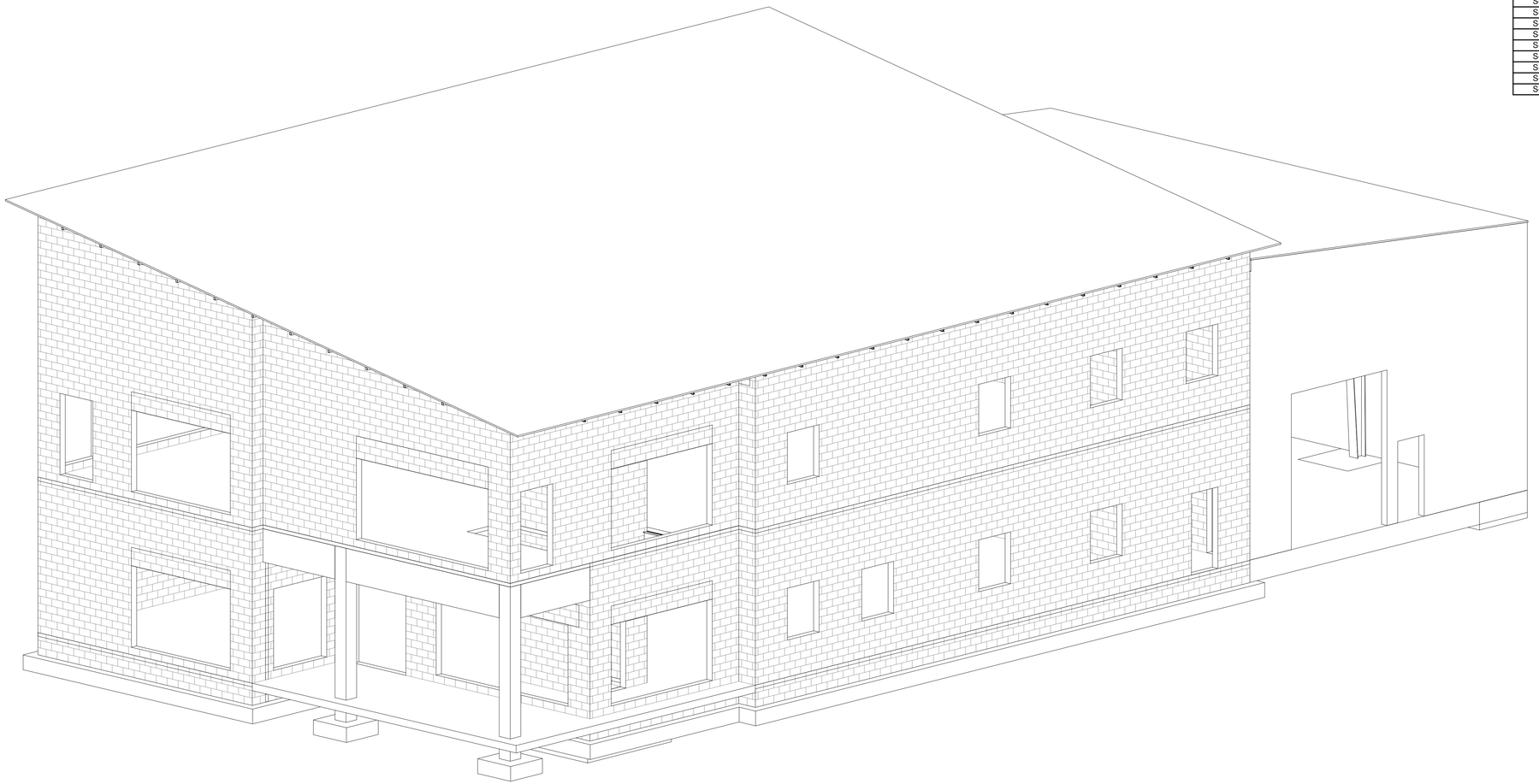
S-502	TYPICAL ROOF FRAMING DETAILS		•
S-601	BUILDING SECTIONS	•	•
S-602	BUILDING ELEVATIONS	•	•



1 ISOMETRIC VIEW

ISOMETRIC VIEW IS GRAPHICAL REPRESENTATION AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.

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This item has been digitally signed and sealed by Daniel Diaz, PE on the date adjacent to seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

BALDWIN ROOFING CO.

BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBERG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:

2025024

DATE:	05/30/2025
DESIGNED BY:	AF / DD
DRAWN BY:	DMD (I)
CHECKED BY:	DD

DRAWING TITLE:

COVER SHEET

SHEET NO:

S-000

STRUCTURAL SPECIFICATIONS:

1. GENERAL CONTRACTOR (G.C.) IS RESPONSIBLE TO VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ALL ENGINEERS OF RECORD. THE CONTRACTOR IS ALSO SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. DMD & COMPANY, LLC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION OR FOR RELATED SAFETY PRECAUTIONS AND PROGRAMS.
2. TYPICAL DETAILS AND WALL SECTIONS SHOWN APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE.
3. CONTRACTOR MUST FULLY BRACE AND PROTECT ALL WORK IN PROGRESS UNTIL THE STRUCTURE IS COMPLETED.
4. THE STRUCTURE AND ALL APPLICABLE COMPONENTS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:
   a. THE **8th EDITION (2023) FLORIDA BUILDING CODE.**
   b. ACI STANDARD 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
   c. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES **(ACI 530 / ASCE 5)**.
   d. AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
5. THE FOLLOWING STRUCTURAL CONSTRUCTION DOCUMENTS MUST BE USED IN CONJUNCTION WITH ALL APPLICABLE SPECIFICATIONS AND THE ARCHITECTURAL AND MECHANICAL CONSTRUCTION DOCUMENTS. IF THERE IS A DISCREPANCY BETWEEN DOCUMENTS, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING ANY AND ALL CONSTRUCTION. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION MUST **ALWAYS** APPLY.
6. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND COORDINATE WITH ARCHITECTURAL AND STRUCTURAL CONSTRUCTION DOCUMENTS AND WITH ANY AND ALL APPLICABLE EQUIPMENT MANUFACTURER'S (I.E. WINDOW, DOOR, AIR HANDLER, ETC.). IF THERE ARE ANY CONFLICTS THE GENERAL CONTRACTOR IS REQUIRED TO REQUEST AND RECEIVE AN ARCHITECTURAL DIRECTIVE PRIOR TO PERFORMING WORK.
7. IF THERE ARE ANY DIMENSION'S NOT SHOWN ON THE STRUCTURAL CONSTRUCTION DOCUMENTS REQUIRED FOR CONSTRUCTION THE GENERAL CONTRACTOR MAY REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND/OR CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ADDITIONAL INFORMATION.

STRUCTURAL FOUNDATION NOTES:

1. SITE SOIL FOR THIS PROJECT HAS BEEN INVESTIGATED BY THE FIRM OF ANTICUS ENGINEERING AND FOUND, AS PRESENTED IN THEIR REPORT DATED SEPTEMBER 13, 2023, SUITABLE TO SUPPORT 2500 PSF SPREAD FOOTINGS. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE ABOVE STATED CRITERIA.
2. FILL AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATION AS CONTAINED IN THEIR REPORT STATED IN ITEM 1.
3. ALL COLUMN FOOTINGS SHALL BE CENTERED UNDER COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
4. BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE CAREFULLY WITH SMALL COMPACTION EQUIPMENT, AFTER SLABS ON GROUND ARE IN PLACE AND CONCRETE HAS SET. NO TRUCKS, BULLDOZERS, ETC. SHALL BE ALLOWED CLOSER THAN 6'-0" TO ANY FOUNDATION WALL. ANY WALL 3'-0" OR HIGHER MUST BE BRACED DURING THE CONSTRUCTION PROCESS.
5. NO FOUNDATIONS SHALL BE PLACED ABOVE 1 VERTICAL ON 2 HORIZONTAL SLOPES EXTENDED FROM THE CLOSEST EDGE OF ANY UNDISTURBED SOIL OR OTHER FOUNDATION STRUCTURE. BOTTOM OF FOOTINGS SHALL NOT BE LESS THAN 1'-0" BELOW EXISTING GRADE (U.N.O.).
6. FOR FOUNDATIONS SIZE AND REINFORCING SEE SCHEDULE.
7. CONTRACTOR SHALL TREAT SOIL BENEATH BUILDING FOR TERMITES.

CONCRETE MASONRY UNITS (CMU):

1. THE DESIGN AND CONSTRUCTION MUST CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES ACI 530 / ASCE 5, AND THE SPECIFICATIONS FOR MASONRY STRUCTURES ACI 530.1 / ASCE 6.
2. MINIMUM NET COMPRESSIVE STRENGTH OF BLOCK ASSEMBLY MUST BE 1500 P.S.I. (f'm) MORTAR FOR MASONRY MUST BE TYPE "S" OR "M".
3. FOR ALL EXTERIOR AND INTERIOR BEARING, BED JOINTS ARE TO COVER 100% OF THE MASONRY SURFACES AND ALL HEAD JOINTS ARE TO COVER 100% OF THE PROJECTED AREA OF THE FACE SHELLS.
4. CONCRETE FILL FOR ALL CMU CELLS, AS REQUIRED,MUST BE WITH 3000 P.S.I. GROUT WITH A SLUMP BETWEEN 8 AND 11 INCHES. G.C. MUST SUBMIT DESIGN MIX TO STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
5. THE MINIMUM HORIZONTAL REINFORCING FOR ALL CMU WALLS MUST BE 9 GAGE HOT DIP GALVANIZED TRUSS OR LADDER TYPE JOINT REINFORCING AT 16" O.C., PROVIDE MANUFACTURE "T" AND "L" SHAPES FOR INTERSECTIONS AND CORNERS, (MINIMUM LAP 8").
6. PROVIDE ADDITIONAL VERTICAL REINFORCING BAR AT EVERY CORNER, INTERSECTION, CONTROL JOINT, AND OPENING EDGES (U.N.O.).
7. THE MINIMUM SPLICE FOR ALL REINFORCING IS TO CONFORM TO THE LATEST ACI CODE ALONG WITH THE CRSI SPECIFICATIONS FOR REBAR.
8. ALL CMU WALLS HAVE BEEN ENGINEERED TO BE BRACED BY FLOOR/ROOF/BEAM MEMBERS, THEREFORE CONTRACTOR MUST PROVIDE TEMPORARY BRACING DURING CONSTRUCTION.
9. ALL CMU BELOW FIRST FLOOR FINISHED ELEVATION MUST BE FULLY GROUT FILLED.
10. ALL KNOCK OUT BLOCK HORIZONTAL BARS MUST HAVE CORNER BARS AT ALL CORNERS AND WALL INTERSECTIONS. SIZE AND NUMBER OF CORNER BARS MUST BE SAME AS HORIZONTAL BARS.
11. ALL INTERSECTING WALLS AND CORNER WALLS MUST BE LAID IN AN OVERLAPPING MASONRY BONDING PATTERN, WITH ALTERNATE UNITS HAVING A BEARING OF NOT LESS THAN 3 INCHES ON UNIT BELOW.

STRUCTURAL CONCRETE:

1. ALL STRUCTURAL CONCRETE CONSTRUCTION MUST CONFORM TO THE LATEST ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI-318".
2. ALL STRUCTURAL CONCRETE FOR THIS PROJECT MUST HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH AS INDICATED IN THE TABLE BELOW:

CONCRETE	W/C RATIO	AGGREGATE	USED FOR:
4000 PSI	0.45	STONE	FOUNDATIONS AND SLAB ON GRADE
5000 PSI	0.42	STONE	CONCRETE U.N.O.

3. ALL REINFORCING STEEL (REBAR) MUST BE NEW BILLET STEEL, INTERMEDIATE GRADE DEFORMED BARS, CONFORMING TO ASTM A-615, GRADE 60. ALL REBAR MUST BE SECURELY SUPPORTED AND TIED IN PLACE PRIOR TO CONCRETE PLACEMENT. USE OF CONCRETE BRICK TO SUPPORT BARS IS NOT ALLOWED.
4. IF STRUCTURAL CONSTRUCTION DOCUMENTS CALL FOR REBAR TO BE WELDED ALL WELDING MUST CONFORM TO ASTM A-706.
5. ANY WELDED WIRE FABRIC (W.W.F.), DESIGNATED IN THE STRUCTURAL CD'S MUST BE PROVIDED IN FLAT SHEETS ONLY AND MUST CONFORM TO ASTM A-185.
6. ALL BARS MARKED CONTINUOUS MUST BE SPLICED AT ALL LAP POINTS AND CORNERS AND DEVELOPED AT NON-CONTINUOUS ENDS AS PER LAP SPLICE LENGTHS DEFINED IN ATTACHED TYPICAL DETAILS (UNLESS OTHERWISE NOTED IN PLANS). IF A SPLICE IS REQUIRED, G.C MUST SPLICE CONTINUOUS TOP BARS AT MID-SPAN, BETWEEN SUPPORTS AND MUST SPLICE CONTINUOUS BOTTOM BARS OVER SUPPORTS.
7. THE MINIMUM CLEAR COVER FOR REBAR MUST BE A MINIMUM OF THE VALUE TABULATED BELOW:

SLABS:	(LIGHTWEIGHT & STONE CONC.)	1"
GIRDERS & BEAMS:	(TO STIRRUPS)	1 1/2"
JOISTS:	(LIGHTWEIGHT & STONE CONC.)	1 1/4"
COLUMNS AND PIERS:		
SURFACES EXPOSED TO EARTH & WEATHER	(TO STIRRUPS)	2"
ALL OTHER SURFACES	(TO STIRRUPS)	1 1/2"
FOUNDATIONS:		
ALL FORMED SURFACES		2"
ALL SURFACES CAST DIRECTLY AGAINST THE EARTH		3"
WALLS:		
ALL SURFACES EXPOSED TO EARTH		2"
ALL SURFACES EXPOSED TO WEATHER		1 1/2"
ALL OTHER SURFACES		1"

8. UNLESS NOTED, TEMPERATURE REINFORCING (ASTM A-615-60) TO BE 0.0018 X CONCRETE AREA.
9. PROVIDE #4 @ 12" O.C., WITH STANDARD HOOK, TOP BARS IN ALL SLABS AT DISCONTINUOUS ENDS UNLESS OTHERWISE NOTED ON PLANS. LENGTH OF BARS 1/4 OF SPAN, MINIMUM 3'-0". UNLESS OTHERWISE NOTED PROVIDE #4 @ 12" O.C IN ALL CANTILEVERS. BAR LENGTH MUST BE CANTILEVER SPAN PLUS 10'-0" PLUS STANDARD HOOK AT CANTILEVER ENDS.
10. WHERE PIPE SLEEVES (UP TO 2" IN DIAMETER) PASS THROUGH CONCRETE BEAMS, PROVIDE ADDITIONAL STIRRUP EACH SIDE OF SLEEVE, SLEEVES FOR PIPES 2" IN DIAMETER OR LARGER MUST BE STEEL OR CAST IRON, AND THE LOCATION MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
11. ALL CONSTRUCTION JOINTS MUST BE THOROUGHLY CLEANED JUST BEFORE PLACING NEW CONCRETE IN ACCORDANCE WITH THE BUILDING CODE.
12. UNDER NO CIRCUMSTANCES MAY CONCRETE BE PUMPED THROUGH ALUMINUM PIPES. CONCRETE MUST NOT BE PLACED IN CONTACT WITH ALUMINUM, ALUMINUM MIXING DRUMS, TRUCK MIXERS, BUGGIES, CHUTES, CONVEYORS, TREMIE PIPES, AND OTHER EQUIPMENT MADE OF ALUMINUM MUST NOT BE USED ON THIS PROJECT.
13. SLUMPS OF OVER 4 INCHES WILL NOT BE PERMITTED UNLESS THE HRWR ADMIXTURE (SUPER PLASTICIZER) IS USED. MAXIMUM SLUMP WITH HRWR IS: 8 INCHES - UNLESS OTHERWISE NOTED BY THE STRUCTURAL ENGINEER OF RECORD.
14. NO ADMIXTURE MUST BE USED IN CONCRETE EXCEPT WITH THE PERMISSION OF THE STRUCTURAL ENGINEER OF RECORD AND ONLY AFTER LABORATORY DESIGN MIX APPROVAL. ALL ADMIXTURES MUST CONTAIN NO MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL POTABLE DRINKING WATER.
15. ANY WATER REDUCING ADMIXTURES MUST CONFORM TO ASTM C-494, TYPE A, AND MUST BE USED IN ALL CONCRETE.
16. ANY AIR ENTRAINING ADMIXTURE MUST CONFORM TO ASTM C260. THE AIR CONTENT OF CONCRETE MUST BE USED AS FOLLOWS:

FOR CONCRETE EXPOSED TO SOIL OR WEATHER:	5%.
FOR INTERIOR WALLS, COLUMNS, AND SLABS:	3%.

17. ALL FLY ASH USED IN THE CONCRETE MIX DESIGN MUST CONFORM TO ASTMC618, TYPE C OR TYPE F AND MUST NOT EXCEED 20% OF THE TOTAL CEMENTITIOUS MIX.
18. ANY EXPOSED CONCRETE SLABS MUST RECEIVE A CURING COMPOUND. THE CURING COMPOUND MUST CONFORM TO ASTM C309 AND MUST HAVE A MINIMUM OF 30% SOLIDS.

MISCELLANEOUS:

1. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH, AS SHOWN IN THE STRUCTURAL DOCUMENTS.
2. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ENSURE THE SAFETY OF THE BUILDING UNTIL STRUCTURAL SYSTEM IS COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
3. CONTRACTOR TO SUPPORT, BRACE, AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION.
4. APPLICABLE BUILDING CODE: 8th EDITION (2023) FLORIDA BUILDING CODE.
5. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 8th EDITION (2023) FLORIDA BUILDING CODE.
6. DESIGN LOADS FOR PRE-ENGINEERED METAL BUILDING ROOF: 20 PSF SUPERIMPOSED LIVE LOAD AND 25 PSF DEAD LOAD.
7. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.
8. CONTACT ENGINEER WITH ANY QUESTIONS OR DISCREPANCIES FOUND ON DRAWINGS.
9. SUBMIT SHOP DRAWINGS AS REQUIRED HEREIN. ALLOW FOR TWO WEEKS REVIEW TIME AFTER RECEIPT OF SUBMITTALS BY THIS FIRM. ALL SUBMITTALS SHALL BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR AND SIGNED/SEALED BY THE SPECIALTY ENGINEER, WHERE SPECIFIED HEREIN.
10. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW THEREOF.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL ELEMENTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. SPECIFICATIONS.
2. STRUCTURAL STEEL ELEMENTS SHALL CONFORM TO THESE SPECIFICATIONS:

ANCHOR BOLTS	ASTM F1554
FRAMING BOLTS	ASTM A325 OR A490
SHAPES (C,L,PL,T)	ASTM A36
SHEAR STUDS	ASTM A108
STEEL PIPE (HSS)	ASTM A500 (42 KSI)
STRUCTURAL TUBE (HSS)	ASTM A500 (46 KSI)
WELDING ELECTRODES	E70XX
WIDE FLANGE (WF)	ASTM A992 (50 KSI)

3. SHOP CONNECTIONS MAY BE WELDED OR FASTENED BY HIGH STRENGTH BOLTS. ALL CONNECTIONS SHALL CONFORM TO STANDARD CONNECTION DETAILS ON THE PLANS, UNLESS EXPLICIT APPROVAL FROM THE ENGINEER HAS BEEN OBTAINED. ALL CONNECTIONS TO BE DOUBLE ANGLE FRAMED BEAM CONNECTION PER A.I.S.C. UNLESS NOTED OTHERWISE.
4. DESIGN CONNECTIONS FOR THE MAXIMUM SHEAR (V IN KIPS) LISTED IN THE TABLES FOR "ALLOWABLE UNIFORM LOADS IN KIPS FOR BEAMS LATERALLY SUPPORTED", AT THE BOTTOM OF EACH PAGE IN THE "PROPERTIES AND REACTION VALUES", PART TWO OF THE LATEST EDITION OF THE A.I.S.C. "MANUAL OF STEEL CONSTRUCTION".
5. ALL BOLTS SHALL BE A MINIMUM OF 3/4" IN DIAMETER, AND BE PROVIDED WITH HARDENED WASHERS UNDER THE TURNED ELEMENT (BOLT HEAD OR NUT).
6. ALL CONNECTIONS PERFORMED IN THE FIELD SHALL BE MADE WITH HIGH STRENGTH BOLTS, SLIP-CRITICAL (FRICTION) TYPE.
7. INSTALLATION AND TIGHTENING OF ALL HIGH STRENGTH BOLTS MUST CONFORM TO "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
8. ALL WELDING OPERATIONS MUST CONFORM TO THE AMERICAN WELDING SOCIETY CODE, ANS01.1, AND ALL WELDS SHALL BE PERFORMED USING E70XX, U.N.O. WELDS ARE TO BE EQUAL IN STRENGTH TO SIMILAR BOLTED CONNECTIONS.
9. WELDING STRUCTURAL STEEL MEMBERS TO EMBED PLATES IN CONCRETE MUST BE PERFORMED WITH EXTREME CARE. OVERHEATING THE EMBED PLATE DURING THE WELDING PROCESS WILL CAUSE SEVERE DEGRADATION OF THE PERFORMANCE OF THE CONNECTION. WELD IN SHORT, SINGLE PASSES (NO MORE THAN 6" OF LENGTH FOR 1/4" THICK WELD), AND ALLOW AMPLE COOLING-OFF TIME BETWEEN EACH WELD. THICKER WELDS SHOULD BE PERFORMED IN MULTIPLE PASSES, WITH A COOLING-OFF PERIOD FOR EACH PASS.
10. GALVANIZE ALL STEEL MEMBERS EXPOSED TO WEATHER (SUCH AS LINTELS, DOOR JAMBS, ETC.).
11. SEE SPECIFICATIONS FOR PAINTING OR COATING OF STEEL ELEMENTS. ALL FABRICATION AND ERECTION MARKS SHALL BE COVERED DURING FIELD TOUCH-UP PAINTING.
12. CUTTING, BURNING OF HOLES, OR OTHER MODIFICATIONS TO STEEL MEMBERS IN THE FIELD IS NOT PERMITTED WITHOUT THE EXPLICIT APPROVAL OF THE ENGINEER.
13. STEEL MEMBERS REQUIRED BY OTHER TRADES TO SUPPORT THEIR EQUIPMENT, WHICH ARE NOT ALREADY PRESENT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, SHALL BE PROVIDED BY THE TRADE REQUIRING SUCH WORK.
14. FOR MISCELLANEOUS STEEL ELEMENTS, SEE ARCHITECTURAL DRAWINGS.

OPEN WEB STEEL JOISTS:

1. STEEL JOIST CONSTRUCTION SHALL CONFORM TO THE LATEST SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. ALL STEEL JOISTS MUST BE APPROVED BY THE STEEL JOIST INSTITUTE. MAXIMUM LIVE AND TOTAL DEFLECTION OF JOISTS = L/360.
2. JOIST MANUFACTURER MUST SUBMIT THE CATALOG USED FOR THE MANUFACTURE OF THE JOISTS WITH THE SHOP DRAWINGS, WITH ALL DESIGN SPECIFICATIONS (LOAD TABLES, SIZES, ETC.) FOR ALL JOIST MEMBERS.
3. SHORT-SPAN JOISTS MUST HAVE A MINIMUM BEARING OF 2-1/2" ON STEEL BEAMS. LONG-SPAN JOISTS MUST HAVE A MINIMUM BEARING OF 4" ON STEEL BEAMS. IN CASES WHERE JOISTS BEAR ON STEEL BEAMS ON ONLY ONE SIDE OF THE BEAM, JOIST SEATS SHALL EXTEND A MINIMUM OF 1" PAST THE CENTERLINE OF THE SUPPORTING BEAM.
4. ALL SHORT-SPAN JOISTS, AND DEEP LONG-SPAN JOISTS SHALL HAVE UNIFORM CROSS-SECTIONS, WITH STANDARD DEAD-LOAD CAMBER. ROOF PITCH TO BE ACCOMPLISHED BY SLOPED JOISTS AND SUPPORT BEAMS. ADJUST JOIST SEATING AS SHOWN ON DRAWINGS.
5. ALL JOISTS BEARING ON STEEL BEAMS SHALL BE BOLTED OR WELDED TO THOSE BEAMS USING STANDARD CONNECTION PROCEDURES.
6. RIGID CONNECTIONS OF BOTTOM CHORDS OF STEEL JOISTS TO COLUMNS SHALL BE PERFORMED ONLY AFTER THE APPLICATION OF ALL DEAD LOADS. CONNECTIONS TO THESE BOTTOM CHORDS SHOULD BE LOOSE DURING ERECTION.
7. STEEL JOIST SUPPLIER TO PROVIDE AND INSTALL ALL BRIDGING WORK, AS SHOWN ON PLAN, BUT NOT LESS THAN AS REQUIRED BY THE STEEL JOIST INSTITUTE OR THE STEEL JOIST DESIGNER. BRIDGING SHALL CONSIST OF A MINIMUM OF 1-1/4" X 1-1/4" X 1/8" ANGLES, UNLESS NOTED OTHERWISE.
8. ALL CLIPS AND CONNECTORS SHALL BE WELDED BY AN APPROVED SHOP.
9. NO FIELD WELDING TO BAR JOISTS IS PERMITTED WITHOUT THE EXPLICIT APPROVAL BY THE ENGINEER. NO JOIST SHALL BE SPLICED IN THE FIELD.
10. FOR SPECIFIC JOIST ENDS, SEE THE ROOF SECTION DRAWINGS.
11. STEEL JOISTS SHALL BE PRIMED PER MFR STANDARD, UNO.
12. TRADES ARE NOT ALLOWED TO HANG EQUIPMENT EXCEEDING 40 POUNDS FROM JOISTS WITHOUT THE EXPLICIT APPROVAL OF THE ENGINEER. LOADS LESS THAN 40 POUNDS MAY BE HUNG AT PANEL POINTS ONLY. ADDITIONAL COSTS IN REINFORCING JOISTS SHALL BE BORNE BY THE TRADES REQUIRING THE WORK.

COMPOSITE METAL FLOOR DECK:

1. STEEL FLOOR DECK SHALL BE AS SPECIFIED IN THE FLOOR FRAMING NOTES ON THE FLOOR PLAN.
2. ALL STEEL FLOOR DECK SHALL BE GALVANIZED TOP AND PAINTED BOTTOM (PHOSPHATIZED DECK MAY BE CONSIDERED AS A BID ALTERNATE).
3. ALL STEEL FLOOR DECK SHALL BE CAPABLE OF SUPPORTING ALL CONSTRUCTION LOADS. CONTRACTOR IS TO SUBMIT CUT SHEETS ON ANY EQUIPMENT THAT WEIGHS OVER 500LBS (OR 40PSF) FOR REVIEW BY STRUCTURAL ENGINEER PRIOR TO USING SAID EQUIPMENT ON THIS PROJECT.
4. ALL STEEL FLOOR DECK SHALL BE CONTINUOUS OVER FOUR OR MORE STRUCTURAL SUPPORTS (I.E. DECK SHOULD BE DETAILED FOR A THREE SPAN CONDITION).
5. STEEL FLOOR DECK SHALL HAVE NESTING SIDE LAPS (ATTACHED BY MECHANICAL MEANS) AT THE CENTER OF EACH SPAN OR 30" O/C, WHICHEVER IS LEAST DIMENSION.
6. IF DECK IS CUT IN SINGLE SPAN CONDITION, EACH END OF SUCH SECTIONS SHALL BE WELDED TO ITS SUPPORT THROUGH WELDING WASHERS IN THE BOTTOM OF EACH RIB. IN AREAS WHERE THE DECK IS CUT AS PER NOTE 6, THE GAGE OF THE SINGLE SPAN DECK SHALL BE ADJUSTED UPWARDS AS REQUIRED BY THE ENGINEER TO SUPPORT THE LOADS. IDENTIFY THESE LOCATIONS IN SHOP DRAWINGS.
7. ANY ELECTRICAL WORK WEIGHING MORE THAN 4 PSF SHALL BE HUNG FROM STEEL BEAMS ONLY. FOR HANGERS, SEE SPECIFICATIONS. ALL MECHANICAL WORK AND PIPING SHALL BE HUNG FROM STEEL BEAMS. SEE STRUCTURAL STEEL NOTE 12 (OF STRUCTURAL STEEL NOTES) FOR ADDITIONAL STEEL REQUIRED BY MECHANICAL/ELECTRICAL TRADES TO SUPPORT THEIR EQUIPMENT.
8. METAL DECK CONTRACTOR TO PROVIDE 18 GAGE RIDGE PLATE, VALLEY PLATE, EDGE STRIP, ETC., AS REQUIRED.
9. STEEL FLOOR DECK SHALL BE WELDED AT ENDS AND ALL INTERMEDIATE SUPPORTING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS OR ELONGATED WELDS OF EQUAL STRENGTH SPACED PER SPECIFICATIONS IN THE BOTTOM OF THE RIB ACROSS THE WIDTH OF THE DECK UNIT.
10. CUT OUT METAL DECK WHERE BOLT PROJECTIONS INTERFERE WITH METAL DECK.
11. ANY SINGLE SPAN FLOOR DECK SHALL BE SHORED AT MID-SPAN DURING CONCRETE PLACEMENT. SHORES SHALL REMAIN UNTIL CONCRETE HAS REACHED ITS 28-DAY STRENGTH.

STRUCTURAL STEEL ROOF DECK:

1. STEEL ROOF DECK SHALL BE A MINIMUM OF 1-1/2" - 20 GAGE WIDE RIB FOR SPANS UP TO 6'-0". STEEL ROOF DECK SHALL BE A MINIMUM OF 3" TYPE N - 20 GAGE WIDE RIB FOR SPANS UP TO 12'-0". THESE DIMENSIONS SHOULD BE USED UNLESS NOTED OTHERWISE IN THE ROOF FRAMING NOTES ON THE ROOF PLAN DRAWING.
2. STEEL ROOF DECK MUST BE CAPABLE OF SUPPORTING ALL CONSTRUCTION LOADING. THE DECK SHOULD BE CONTINUOUS OVER FOUR OR MORE STRUCTURAL SUPPORTS, AND DETAILED DRAWINGS MUST BE PROVIDED FOR THREE-SPAN CONDITIONS.
3. STEEL DECK CONTRACTOR WILL PROVIDE A MINIMUM 18 GAGE RIDGE PLATES, VALLEY PLATES, EDGE STRIPS, AND ALL OTHER NECESSARY CONNECTING ELEMENTS AS REQUIRED.
4. STEEL ROOF DECK ELEMENTS SHALL BE HOT-DIPPED GALVANIZED "G90" AS DESIGNATED BY ASTM SPECIFICATIONS.
5. STEEL ROOF DECK SHALL HAVE NESTING SIDE LAPS (ATTACHED BY MECHANICAL CONNECTING ELEMENTS) AT THE CENTER OF EACH SPAN, OR AT 30" ON-CENTER, WHICHEVER IS THE SMALLER DIMENSION.
6. CUT OUT THE STEEL DECK WHERE INTERFERENCES WITH BOLT PROJECTIONS OCCUR.
7. CUTS MADE IN SINGLE-SPAN CONDITIONS REQUIRES EACH END OF SUCH SECTIONS TO BE WELDED TO ITS SUPPORT THROUGH WELDING WASHERS IN THE BOTTOM OF EACH RIB. THE GAGE OF THE SINGLE-SPAN DECK MUST BE INCREASED FOR ADDITIONAL STRENGTH IN THESE AREAS.
8. STEEL ROOF DECK ELEMENTS SHALL BE WELDED AT ENDS AND ALL INTERMEDIATE SUPPORT MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS OR EQUIVALENT STRENGTH ELONGATED WELDS SPACED AS PER WELD SPECIFICATIONS IN THE BOTTOM OF THE RIB ACROSS THE WIDTH OF THE DECK.
9. ALL ELECTRICAL WORK WEIGHING MORE THAN FIVE PSF SHALL BE HUNG FROM STEEL BEAMS ONLY. ALL MECHANICAL WORK AND PIPING SHALL BE HUNG FROM STEEL BEAMS ONLY. SEE SPECIFICATIONS FOR HANGERS. MECHANICAL AND ELECTRICAL TRADES.

SUBMITTALS:

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PLAN AND ALLOW (10) WORKING DAYS FOR APPROVAL FROM DMD & COMPANY'S OFFICE. THIS SHALL BE FIGURED INTO THE CONTRACTORS SCHEDULE BEFORE CONSTRUCTION BEGINS.
2. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC.
3. SHOP DRAWINGS WILL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINNER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.
4. SHOP DRAWING SUBMITTALS SHALL INCLUDE FOUR SETS OF PRINTS. ONE SET OF PRINTS WILL BE RETAINED BY THE ENGINEER, AND THE CONTRACTOR SHALL MAINTAIN ONE SET FOR THE OWNER.
5. THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.
6. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL.
7. THE FOLLOWING SHALL BE INCLUDED, AS A MINIMUM, FOR SHOP DRAWING AND SUBMITTAL REVIEW:
   a. REINFORCING STEEL
   b. CONCRETE MIX DESIGN
   c. STRUCTURAL STEEL ERECTION DRAWINGS
   d. METAL DECK
   e. COLD FORMED STEEL (LIGHT GAUGE STEEL)
   f. CONCRETE MASONRY AND MORTAR MIX
   g. MISCELLANEOUS STEEL, STEEL EMBEDS, STEEL ANGLES, BOLTS, ETC.
   h. CONCRETE CONSTRUCTION JOINT LOCATION FOR ALL STRUCTURAL CONCRETE ELEMENTS
   i. PRE-ENGINEERED / PRE-FABRICATED STAIRS
   j. PRE-ENGINEERED METAL BUILDING ANCHOR BOLT LAYOUT
8. SHOP DRAWINGS SHALL SHOW ALL MEMBER SIZES, WELDS, BOLTS, CONNECTION DETAILS, LAYOUTS, BRIDGING, ACCESSORIES, EMBEDS, ETC., AS REQUIRED TO FABRICATE AND ERECT THE PROPOSED CONSTRUCTION IMPROVEMENTS.
9. THE GENERAL CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS AND SUBMITTALS PRIOR TO SUBMITTING TO THE ENGINEER.
10. THE MANUFACTURER'S LITERATURE, INCLUDING A PROJECT CONTACT, AND OTHER GENERAL CONTACT INFORMATION, SHALL BE SUBMITTED FOR ALL MATERIALS AND PRODUCTS PROPOSED FOR CONSTRUCTION.
11. SHOP DRAWINGS, CALCULATIONS AND SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.
12. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE IMPRESSED SEAL, DATE AND SIGNATURE OF THE DELEGATED ENGINEER. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER AN INDICATION THAT HE/SHE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED PRINT FOR RECORD.
13. DRAWINGS PREPARED TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
14. CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.
15. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFY THE FOLLOWING:
   a. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
   b. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER .
   c. THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIC STRU

COLD-FORM STEEL FRAMING:

1. ALL STEEL FRAMING SHALL CONFORM TO "THE SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, BY THE AISI.
2. WELDED CONNECTIONS SHALL CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION, D1.0", BY THE AWS.
3. ASTM A-568 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR STEEL, CARBON, AND HIGH-STRENGTH LOW-ALLOY HOT ROLLED SHEET AND COLD ROLLED SHEET.
4. ALL STEEL FRAMING SHALL BE INSTALLED BY PERSONNEL EXPERIENCED IN LIGHT GAUGE STEEL FRAMING INSTALLATION.
5. WHERE STEEL FRAMING MEMBERS ARE COMPONENTS OF ASSEMBLIES INDICATED FOR A FIRE-RESISTANCE RATING, INCLUDING THOSE REQUIRED FOR COMPLIANCE WITH GOVERNING REGULATIONS, PROVIDE MEMBERS WHICH HAVE BEEN APPROVED BY GOVERNING AUTHORITIES HAVING JURISDICTION.
6. PROTECT LIGHT GAUGE STEEL FRAMING MEMBERS FROM RUSTING AND DAMAGE. DELIVER TO PROJECT SITE IN BUNDLES, FULLY IDENTIFIED WITH NAME, BRAND, TYPE, AND GRADE. STORE OFF GROUND IN A DRY VENTILATED SPACE OR PROTECT WITH SUITABLE WATERPROOF COVERINGS.
7. WITH EACH TYPE OF STEEL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE STEEL FRAMING SYSTEM.
8. FABRICATE METAL FRAMING COMPONENTS OF STRUCTURAL QUALITY SHEET STEEL WITH A MINIMUM YIELD POINT OF 50,000 PSI FOR STUDS, AND 33,000 PSI FOR RUNNERS; ASTM A653.
9. SCREWS SHALL BE AS RECOMMENDED BY MANUFACTURER.
10. PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A525 WITH A G60 COATING.
11. PROVIDE MANUFACTURER'S STANDARD STRUCTURAL "C" SHAPED STEEL STUDS OF SIZE, SHAPE, AND GAUGE INDICATED, WITH A NOMINAL 1-5/8" FLANGE AND MINIMUM 1/2" FLANGE RETURN LIP BY UNIMAST, INC. OR PRIOR APPROVED EQUIVALENT.
12. ALL FRAMING MEMBERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT ALL LIVE, DEAD, AND WIND LOADS, PLUS ANY CONCENTRATED LOADS SHOWN ON THE DRAWINGS.
13. THE EXTERIOR WALL SYSTEM SHALL BE DESIGNED TO WITHSTAND BOTH POSITIVE AND NEGATIVE WIND PRESSURE WITH A MAXIMUM DEFLECTION BASED UPON THE APPLICABLE CODE AND MATERIAL REQUIREMENTS OF THE VENEER, BUT SHALL NOT EXCEED L/360.
14. FRAMING COMPONENTS MAY BE PRE-FABRICATED INTO PANELS PRIOR TO ERECTION. FABRICATE PANELS PLUMB, SQUARE, TRUE-TO-LINE, AND BRACED AGAINST RACKING WITH JOINTS WELDED. PERFORM LIFTING OF PRE-FABRICATED PANELS IN A MANNER TO PREVENT DAMAGE OR DISTORTION.
15. INSTALL METAL FRAMING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS OTHERWISE INDICATED.
16. INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUD DEPTH. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. SECURE TRACKS AS RECOMMENDED BY STUD MANUFACTURER FOR TYPE OF CONSTRUCTION INVOLVED, EXCEPT DO NOT EXCEED 24" ON CENTER SPACING FOR NAIL OR POWER-DRIVEN FASTENERS, OR 16" ON CENTER FOR OTHER TYPES OF ATTACHMENT. PROVIDE FASTENERS AT CORNERS AND ENDS OF TRACKS.
17. FRAME BOTH SIDES OF EXPANSION AND CONTROL JOINTS, AS SHOWN FOR THE WALL SYSTEM, WITH SEPARATE STUDS, AND DO NOT BRIDGE THE JOINT WITH COMPONENTS OF THE STUD SYSTEM.
18. WHERE REQUIRED, TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.
19. RESISTANCE TO BENDING AND ROTATION ABOUT THE MINOR AXIS SHALL BE PROVIDED BY MECHANICAL LATERAL BRACING WHERE REQUIRED.
20. ATTACHMENTS OF SIMILAR COMPONENTS SHALL BE DONE BY WELDING, SCREW ATTACHMENT, OR BOLTING. WIRE TYING OF FRAMING COMPONENTS SHALL NOT BE PERMITTED.
21. WELDING OF MEMBERS LIGHTER THAN 18 GAUGE SHALL NOT BE PERMITTED.
22. SPLICES SHALL NOT BE PERMITTED.
23. MINIMUM NUMBER OF EQUALLY SPACED HORIZONTAL WALL BRIDGING FOR THE HEIGHTS SHOWN:
    a. UP TO 10' - 1 ROW
    b. 10' TO 14' - 2 ROWS
    c. ABOVE 14' - AT 4' CENTERS
24. FULLY INSTALL ALL BRIDGING BEFORE APPLYING LOADS.
25. FOR WELDED CONNECTIONS, FUSION WELDING IS RECOMMENDED WITH A DIRECT CURRENT WELDER OF 200 OR MORE AMPERE CAPACITY. USE A HEAT OF 60 TO 90 AMPERES (DEPENDING ON THE GAUGE OF METAL) ALONG WITH ASTM E60 ELECTRODES.
26. CONTRACTOR TO SUBMIT THE FOLLOWING:
    a. SUBMIT COMPLETE STRUCTURAL CALCULATIONS FOR THE STEEL FRAMING SYSTEM. CALCULATIONS SHALL COVER ALL STUDS, JAMB STUDS, RUNNER TRACK, BRACING, ATTACHMENT OF LIGHT GAUGE FRAMING TO LIGHT GAUGE FRAMING, AND ATTACHMENT OF LIGHT GAUGE FRAMING TO CONCRETE OR STRUCTURAL STEEL.
    b. SUBMIT DETAILED SHOP DRAWINGS FOR STEEL FRAMING SHOWING THE TYPE AND SPACING OF ALL MEMBERS. ALL ATTACHMENTS SHALL BE CLEARLY DETAILED ON THE DRAWINGS. INDICATE SUPPLEMENTAL STRAPPING, BRACING, CLIPS, AND OTHER ACCESSORIES REQUIRED FOR PROPER INSTALLATION.
    c. SUBMIT CERTIFICATION OF MATERIALS FROM THE MANUFACTURER TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS AND RELATED DRAWINGS.
27. ALL SUBMITTALS SHALL BEAR THE SEAL OF A LICENSED FLORIDA ENGINEER.
28. SUBMITTED SHOP DRAWINGS MUST BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR.

Structural Submittal Schedule

Submittal Type	Description	For Approval	For Record	Signed & Sealed Shop Dwgs	Signed & Sealed Calcs
33000 STRUCTURAL CONCRETE					
CONCRETE MIX DESIGN	SUBMIT MIX DESIGN FOR EACH CONCRETE MIX DESIGN. NOTE THE USAGE FOR EACH PROVIDED DESIGN. PROVIDE MIX RECIPE, BREAK DATE, AND PRODUCT DATA AS REQUIRED BY ACI 301.	X			
CONCRETE ACCESSORIES	VAPOR BARIER, REBAR CHAIRS, ETC.	X			
WELDED WIRE REINFORCEMENT		X			
MILD REINFORCEMENT		X			
CONCRETE FORMWORK			X		
EMBEDDED ITEMS	EMBED PLATES, BEARING PLATES, ETC.	X			
HORIZONTAL CONSTRUCTION JOINT LOCATIONS		X			
PENETRATION IN ELEVATED CONCRETE SLABS	SUBMIT CAD FILES WITH ALL PENETRATIONS THROUGH THE SLAB REPRESENDTED.	X			
42000 CONCRETE MASONRY UNITS (CMU)					
MASONRY PRODUCT INFORMATION		X			
MILD REINFORCEMENT	VERTICAL REINF, BOND BEAM REINF, LITEL REINF, BENT BAR SCHEDULE	X			
GROUT MIX DESIGNS	MIX DESIGN AND BREAK DATA	X			
MORTAR MIX DESIGNS		X			
MASONRY ACCESSORIES	BAR SPASCERS, HORIZONTAL JOINT REINF, ETC.		X		
PRECAST LINTEL DATA		X			
51200 STRUCTURAL STEEL					
STRUCTURAL STEEL		X		X	
STEEL CONNECTION CALCULATIONS	BEAM-BEAM CONNECTIONS, VERTICAL BRACING, MOMENT CONNECTIONS, ETC.	X		X	
STEEL STAIRS		X		X	
STEEL STAIR CALCULATIONS	STAIR MEMBERS AND THEIR CONNECTIONS TO EACHOTHER/TO THE STRUCTURE	X			X
STEEL HANDRAILS		X		X	X
52100 STEEL JOISTS					
STEEL JOISTS AND JOIST GIRDERS		X			
CALCULATIONS			X		X
53100 STEEL DECK					
STEEL DECK	SUBMIT PLANS SHOWING SPANS, DECK SIZE, AND MATERIAL FOR EACH ROOF AND/OR DECK TYPE.	X			
DECK ATTACHMENT		X			
77200 ROOF ACCESSORIES					
NEW ROOF CURB SYSTEM	MATERIAL AND LAYOUT OF NEW MECHANICAL CURB AND ATTACHMENT TO STRUCTURAL MEMBERS		X		
NEW CURB ADAPTER	PRODUCT DATA OF MECHANICAL CURB ADAPTER AND ATTACHMENT TO EXISTING CURB		X		
133419 METAL BUILDING SYSTEMS					
ERECTION DRAWINGS	SIZE, LAYOUT, AND ORIENTATION OF COLUMNS. ANCHOR BOLT DIAMETER AND LAYOUT IN BASE PLATE.	X		X	
CALCULATIONS	LIST LOADS USED IN DESIGN. LIST FINAL COLUMN REACTIONS.	X			X

ABBREVIATIONS

ADDL	- ADDITIONAL
AR	- ANCHOR ROD
ALT	- ALTERNATE
APPROX	- APPROXIMATELY
ARCH	- ARCHITECT
ARCHL	- ARCHITECTURAL
B/	- BOTTOM OF
BC	- BOTTOM CHORD
BLDG	- BUILDING
BM	- BEAM
BOTT	- BOTTOM
BRG	- BEARING
C/C	- CENTER TO CENTER
CF	- CONTINUOUS FOOTING
CIP	- CAST IN PLACE
CJ	- CONTRACTION JOINT
CJP	- COMPLETE JOINT PENETRATION
CL, ℄	- CENTERLINE
CLR	- CLEAR
CMU	- CONCRETE MASONRY UNIT
CNTRD	- CENTERED
COL	- COLUMN
CONC	- CONCRETE
CONFIG	- CONFIGURATION
CONT	- CONTINUOUS
CONTR	- CONTRACTOR
CTR	- CENTER
DBL	- DOUBLE
DD	- DECK DRAIN
DTL	- DETAIL
DIA	- DIAMETER
DIM	- DIMENSION
DN	- DOWN
DR	- DRAIN
DWG	- DRAWING
EA	- EACH
EE	- EACH END
EF	- EACH FACE
EJ	- EXPANSION JOINT
EL	- ELEVATION
ELEV	- ELEVATOR
ENGR	- ENGINEER
EOR	- ENGINEER OF RECORD
EOS	- EDGE OF SLAB
EQ	- EQUAL
EW	- EACH WAY
EXIST	- EXISTING
EXP	- EXPANSION
EXT	- EXTERIOR
FIN	- FINISH
FLR	- FLOOR
FD	- FLOOR DRAIN
FDN	- FOUNDATION
FOM	- FACE OF MASONRY
FS	- FAR SIDE
FT	- FOOT
F#	- FOOTING
FTG	- FOOTING
FV	- FIELD VERIFY
GA	- GAUGE
GALV	- GALVANIZED
GC	- GENERAL CONTRACTOR
GT	- GIRDER TRUSS
HC	- HOLLOW CORE
HCP	- HOLLOW CORE PLANK
HDG	- HOT DIPPED GALVANIZED
HG	- HIP GIRDER
HK	- HOOK
HORIZ	- HORIZONTAL
HP	- HIGH POINT
HS	- HIGH STRENGTH
IJ	- ISOLATION JOINT
INFO	- INFORMATION
INS	- INSULATION
INT	- INTERIOR
IRR	- IRREGULAR
JB	- JOIST BEARING
JBE	- JOIST BEARING ELEVATION
JR	- JAMB REINFORCING
JT	- JOINT
K	- KIP(s), 1000 POUNDS
KLF	- KIPS PER LINEAR FOOT
KJ	- CONSTRUCTION JOINT
L	- ANGLE
LG	- LONG
LLH	- LONG LEG HORIZONTAL
LLV	- LONG LEG VERTICAL
LP	- LOW POINT
LW	- LONG WAY
LWT	- LIGHTWEIGHT
MFR	- MANUFACTURER
MAS	- MASONRY
MO	- MASONRY OPENING
MATL	- MATERIAL
MAX	- MAXIMUM
MECHL	- MECHANICAL
MTL	- METAL
MIN	- MINIMUM
MISC	- MISCELLANEOUS
NS	- NEAR SIDE
NIC	- NOT IN CONTRACT
NTS	- NOT TO SCALE
NW	- NORMAL WEIGHT
OC	- ON CENTER
OH	- OPPOSITE HAND
OPNG	- OPENING
PAF	- POWER ACTUATED FASTENERS
PART	- PARTITION
PARTL	- PARTIAL
PCJ	- PRECAST CONCRETE JOIST
PJP	- PARTIAL JOINT PENETRATION
PL	- PLATE
PLF	- POUNDS PER LINEAR FOOT
PSF	- POUNDS PER SQUARE FOOT
PSI	- POUNDS PER SQUARE INCH
PT	- POST TENSIONED
PrT	- PRESSURE TREATED
PNL	- PANEL
R	- RADIUS
REG	- REGULAR
REINF	- REINFORCING
REM	- REMAINDER
REQD	- REQUIRED
REV	- REVISED/REVISION
RM	- ROOM
RO	- ROUGH OPENING
RQMTS	- REQUIREMENTS
SCHED	- SCHEDULE
SECT	- SECTION
SIM	- SIMILAR
SL	- SLOPE
SOG	- SLAB-ON-GRADE
SP	- SPIRAL
SQ	- SQUARE
SS	- STAINLESS STEEL
STD	- STANDARD
STL	- STEEL
STRUCTL	- STRUCTURAL
SW#	- SHEARWALL
SW	- SHORT WAY
T/	- TOP OF
TB	- TIE BEAM
TC	- TIE COLUMN
TEMP	- TEMPERATURE
TG	- TRUSS GIRDER
TH	- TRUSS HIP
THK	- THICK
TJ	- TRUSS JACK
TR	- TRUSS
TYP	- TYPICAL
UNO	- UNLESS NOTED OTHERWISE
VERT	- VERTICAL
W/	- WITH
W/O	- WITHOUT
WD	- WOOD
WF	- WALL FOOTING
WP	- WORK POINT
WWR	- WELDED WIRE REINFORCING

LEGEND

ITEM	SYMBOL
CONCRETE (COLUMN)	
EARTH	
CONCRETE (WALL)	
CONCRETE SHEARWALL	
LOAD BEARING CONCRETE BLOCK (CMU)	
CONCRETE BLOCK SHEARWALL (CMU)	
NON-LOAD BEARING (INFILL) CONCRETE BLOCK (CMU)	
WOOD WALL	
WOOD SHEARWALL	
LOAD BEARING METAL STUD WALL	
METAL STUD SHEAR WALL	
SECTION INDICATOR	1 / S0.3
ELEVATION INDICATOR	1 / S0.3
DETAIL INDICATOR	1 / S0.3
TOP REBAR	
BOTTOM REBAR	

ITEM	SYMBOL
ELEVATION SYMBOL	T/FTG -2'-0"
STEP IN FTG., GRADE BM. OR OTHER	8"
BEAM SPLICE	
MOMENT CONNECTION	
TOP OF STEEL ELEVATION	BEAM TAG (+20'-8")
AND	&
PLATE	ℙ
CENTERLINE	℄
NUMBER (PRECEEDING)	#, NO.
PLUS OR TENSION	+
MINUS OR COMPRESSION	-
POUNDS (FOLLOWING)	#
STEP IN STRUCTURE OR DEPRESSED SLAB	1"

COLUMN SYMBOLS

- INDICATES COLUMN BELOW
- INDICATES COLUMN THRU
- INDICATES COLUMN ABOVE

REINFORCING SYMBOLS

#4@12" OC x 10'-0" T&B

BAR SIZE
BAR SPACING
BAR PLACEMENT
T=TOP
B=BOTTOM

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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBERG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
2025024

DATE: 05/30/2025
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DRAWN BY: DMD (I)
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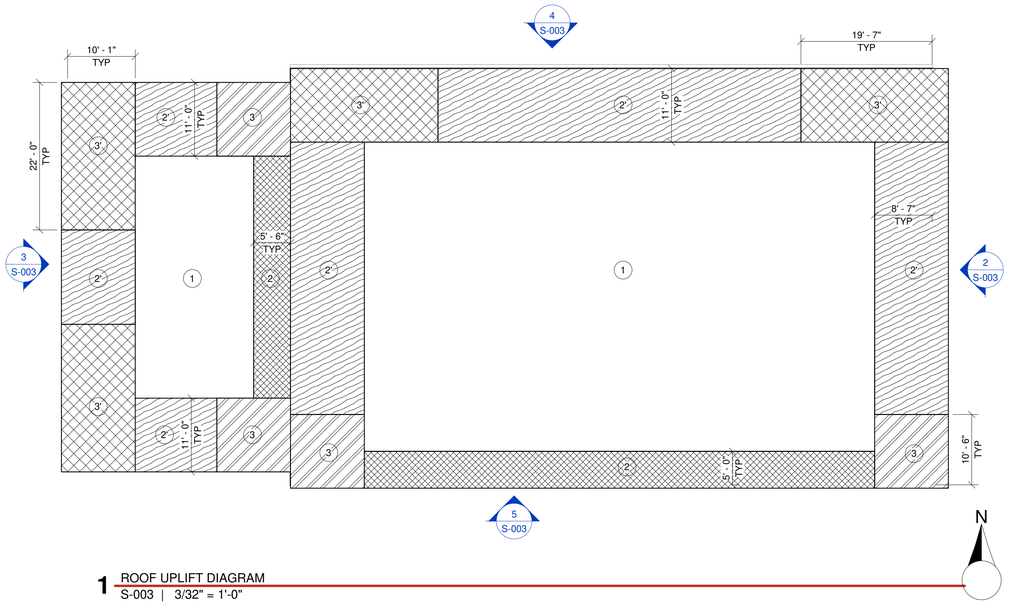
DRAWING TITLE:
GENERAL NOTES AND ABBREVIATIONS

SHEET NO:
S-002



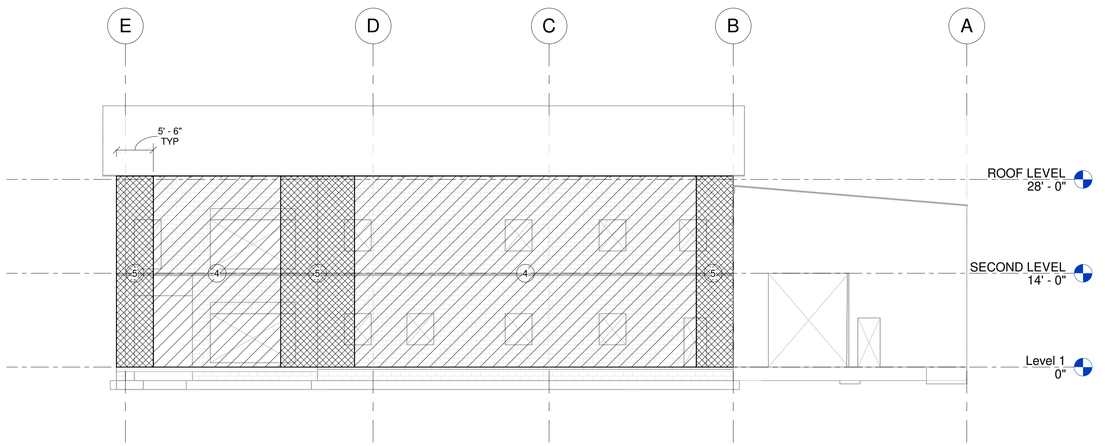
1 ROOF UPLIFT DIAGRAM
S-003 | 3/32" = 1'-0"

COMPONENT & CLADDING ULTIMATE WIND PRESSURES
(PER ASCE 7-22)

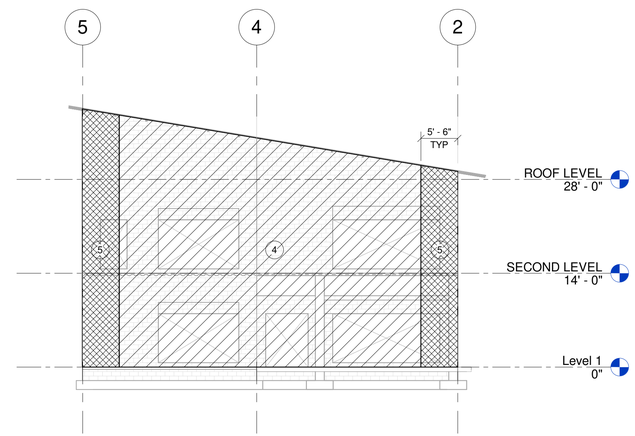
ULTIMATE WIND SPEED, Vult	150 MPH	RISK CATEGORY	II	EDGE DISTANCE , "a"	5.5 FT
NOMINAL WIND SPEED, Vasd	116.2 MPH	EXPOSURE	B	ROOF SLOPE	4.8 DIG
		DIRECTIONALITY FACTOR, Kd	0.85		

COMPONENT LOCATION		POSITIVE PRESSURES (PSF)				NEGATIVE PRESSURES (PSF)			
EFFECTIVE AREA, Ae		10 ft²	20 ft²	50 ft²	100 ft²	10 ft²	20 ft²	50 ft²	100 ft²
ROOFS	ZONE 1	+23.4	+21.9	+20.0	+18.5	-62.4	-62.4	-62.4	-62.4
	ZONE 2	+23.4	+21.9	+20.0	+18.5	-72.1	-70.7	-68.7	-67.3
	ZONE 2'	+23.4	+21.9	+20.0	+18.5	-86.8	-85.3	-83.4	-81.9
	ZONE 3	+23.4	+21.9	+20.0	+18.5	-96.5	-87.7	-76.1	-67.3
	ZONE 3'	+23.4	+21.9	+20.0	+18.5	-135.5	-120.8	-101.4	-86.8
WALLS	ZONE 4: INTERIOR	+52.6	+50.3	+47.2	+44.9	-57.0	-54.7	-51.6	-49.3
	ZONE 5: EXTERIOR	+52.6	+50.3	+47.2	+44.9	-70.2	-65.5	-59.4	-54.7

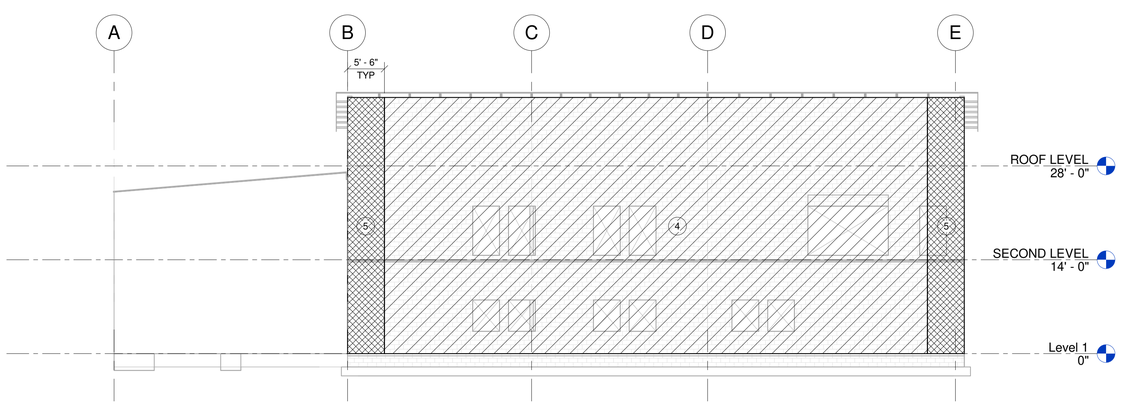
NOTES:
1. "Ae" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
3. PRESSURE VALUES IN ABOVE TABLE ARE FOR A FULLY ENCLOSED CONDITON WITH AN INTERNAL PRESSURE COEFFICIENT OF ± 0.18.
4. GLAZED OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 16 psf (ULTIMATE VALUE).
6. PRESSURES IN ABOVE TABLE ARE ULTIMATE VALUES. WHERE TESTING IS BASED ON NOMINAL (ALLOWABLE) PRESSURES, ABOVE VALUES ARE PERMITTED TO BE MULTIPLIED BY 0.60 FOR THE PURPOSE OF SUCH TESTING.



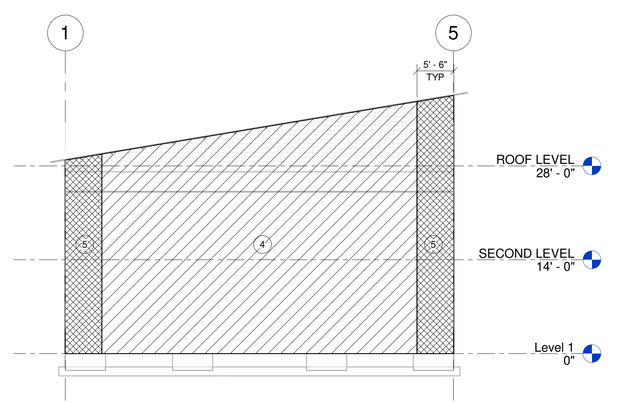
4 NORTH ELEVATION
S-003 | 3/32" = 1'-0"



2 EAST ELEVATION
S-003 | 3/32" = 1'-0"



5 SOUTH ELEVATION
S-003 | 3/32" = 1'-0"



3 WEST ELEVATION
S-003 | 3/32" = 1'-0"

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NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBERG
FLORIDA, 33716

No.	Date	Revision

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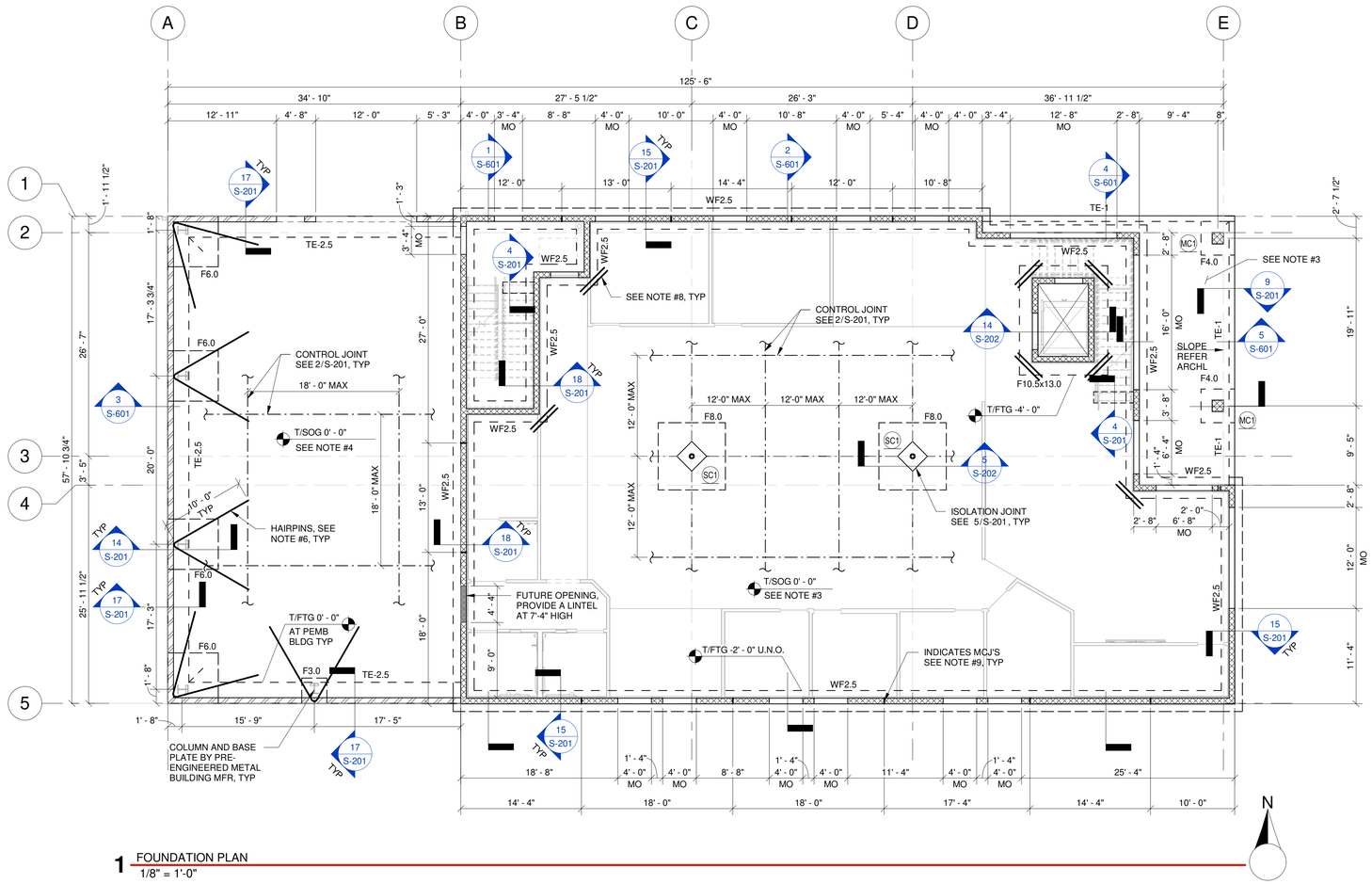
DRAWN BY: DMD (I)
CHECKED BY: DD

DRAWING TITLE:
COMPONENTS AND CLADING DIAGRAM

SHEET NO:
S-003



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

FOUNDATION NOTES:

1. FINISH FLOOR (SLAB ON GRADE) ELEVATION 0'-0", UNLESS NOTED ON PLAN.
2. TOP OF FOOTING ELEVATION -2'-0" BELOW FINISH FLOOR, UNLESS NOTED ON PLAN.
3. SLAB ON GRADE SHALL BE 4" THK, F'c=4,000 PSI, REINFORCED W/ 3#/YD³ OF MACRO SYNTHETIC FIBERS. SAWCUT JOINT (CJ) SHALL BE AS SHOWN ON PLAN. USE AN 15 MIL VAPOR BELOW THE SLAB.
4. SLAB ON GRADE SHALL BE 6" THK, F'c=4,000 PSI, REINFORCED W/ 3#/YD³ OF MACRO SYNTHETIC FIBERS. SAWCUT JOINT (CJ) SHALL BE AS SHOWN ON PLAN. USE AN 15 MIL VAPOR BELOW THE SLAB.
5. VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND PRE-ENGINEERED METAL BUILDING DRAWINGS PRIOR TO CONSTRUCTION.
6. (2) #5 HAIRPINS SEE 6/S-201
7. "TE-#" INDICATES A THICKENED SLAB EDGE. SEE TYPICAL DETAILS FOR REINFORCING.
8. RE-ENTRANT CORNER BARS SEE 8/S-201 TYP.
9. MASONRY CONTROL JOINT (MCJ) REFER 1/S-302 TYP.
10. SC# INDICATE STEEL COLUMN, REFER 19/S-202 FOR DETAILS.

LEGEND	
	INDICATES METAL PANEL BY PRE-ENGINEERED METAL BUILDING MFR
	INDICATES 8" THK CMU WALL (MW1, UNO), REFER SCHEDULE ON 4/S-302

STRUCTURAL FOUNDATION SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCING (LW)	BOTTOM REINFORCING (SW)	TOP REINFORCING (LW)	TOP REINFORCING (SW)	COMMENTS
F3.0	3'-0"	3'-0"	2'-6"	(4) #6	(4) #6	(4) #6	(4) #6	MONOLITHIC W/ TE-2.5 @ WAREHOUSE
F4.0	4'-0"	4'-0"	1'-4"	(5) #6	(5) #6	(5) #6	(5) #6	
F6.0	6'-0"	6'-0"	2'-6"	(7) #6	(7) #6	(7) #6	(7) #6	MONOLITHIC W/ TE-2.5 @ WAREHOUSE
F8.0	8'-0"	8'-0"	1'-4"	(9) #6	(9) #6	(9) #6	(9) #6	
F10.5x13.0	13'-0"	10'-6"	1'-4"	(11) #6	(14) #6	(11) #6	(14) #6	ELEVATOR PIT W/ SUMP PIT
WF2.5	CONT	2'-6"	1'-4"	(3) #6	#6@16" OC	-	-	
WF4.0	CONT	4'-0"	1'-4"	(5) #6	#6@16" OC	(5) #6	#6@16" OC	

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FLORIDA, 33716

No.	Date	Revision

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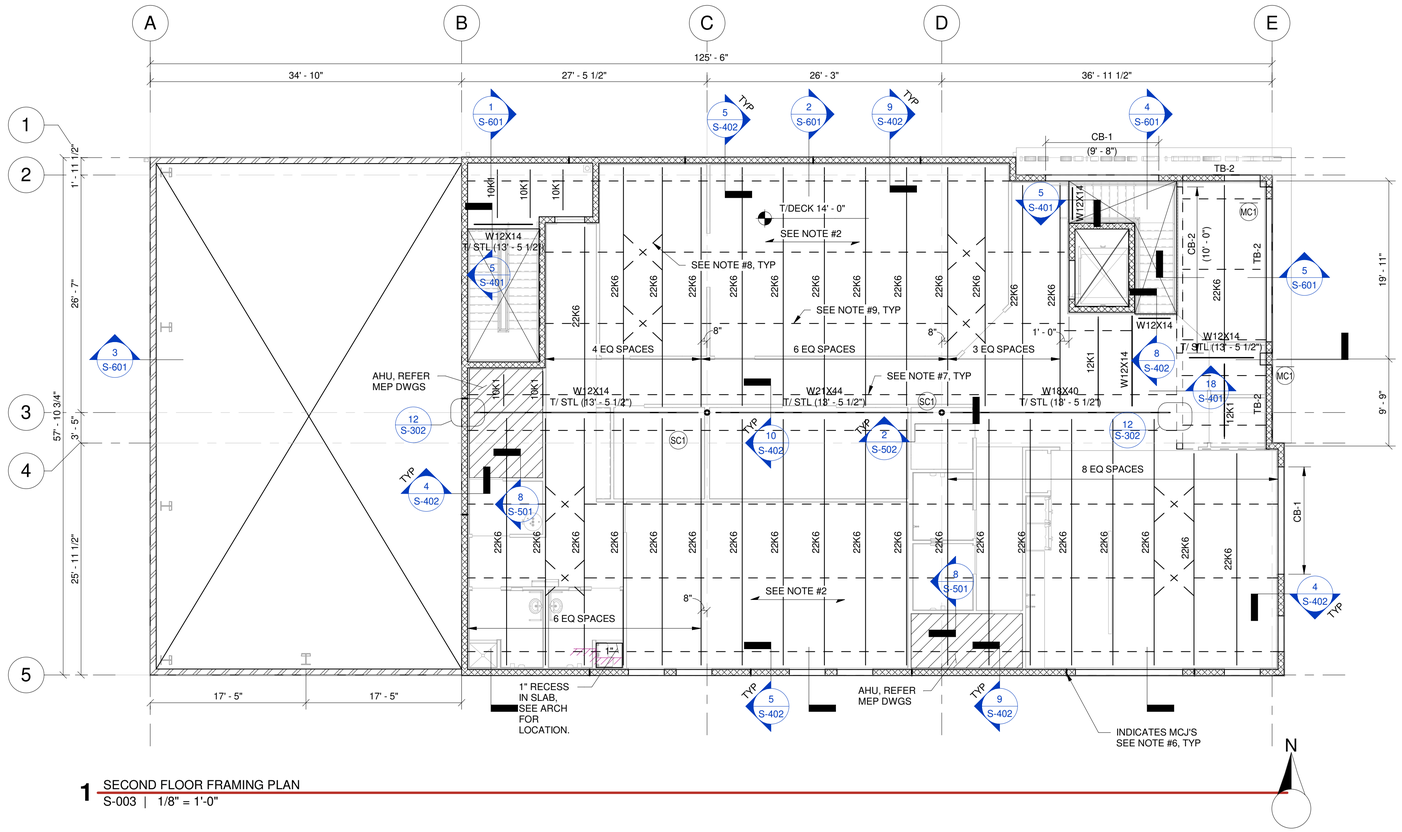
DATE: 05/30/2025
DESIGNED BY: AF / DD
DRAWN BY: DMD (I)
CHECKED BY: DD

DRAWING TITLE:
FOUNDATION /GROUND FLOOR PLAN

SHEET NO:
S-101



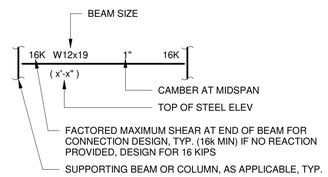
1 SECOND FLOOR FRAMING PLAN

S-003 | 1/8" = 1'-0"

FLOOR PLAN NOTES:

1. TOP OF SECOND FLOOR PLAN = 14' - 0".
2. FLOOR SLAB SHALL 2" CONCRETE SLAB OVER 2" VLI 18 GA COMPOSITE DECK REINFORCE W/ 4#/FT³ OF MACRO SYNTHETIC FIBER.
3. THE GAUGE OF THE METAL FLOOR DECK SHOWN IS THE MINIMUM ALLOWED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DECK SHORING AS REQUIRED TO AVOID OVER STRESSING THE DECK DURING PLACEMENT OF CONCRETE.
4. FLOOR DECK SHALL HAVE (3) SPANS UNLESS APPROVED BY THE ENGINEER.
5. ALL FLOOR OPENING DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
6. MASONRY CONTROL JOINT (MCJ) REFER 1/S-302 TYP.
7. HORIZONTAL BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP.
8. CROSS BRIDGING IN SPACE ADJACENT TO WALL BY JOIST MFR, TYP.
9. UPLIFT BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP.
10. ←——→ INDICATES SPAN DIRECTION OF STRUCTURAL SLAB.

LEGEND	
	INDICATES METAL PANEL BY PRE-ENGINEERED METAL BUILDING MFR
	INDICATES 8" THK CMU WALL (MW1, UNO), REFER SCHEDULE ON 4/S-302



NON-COMPOSITE BEAM LEGEND

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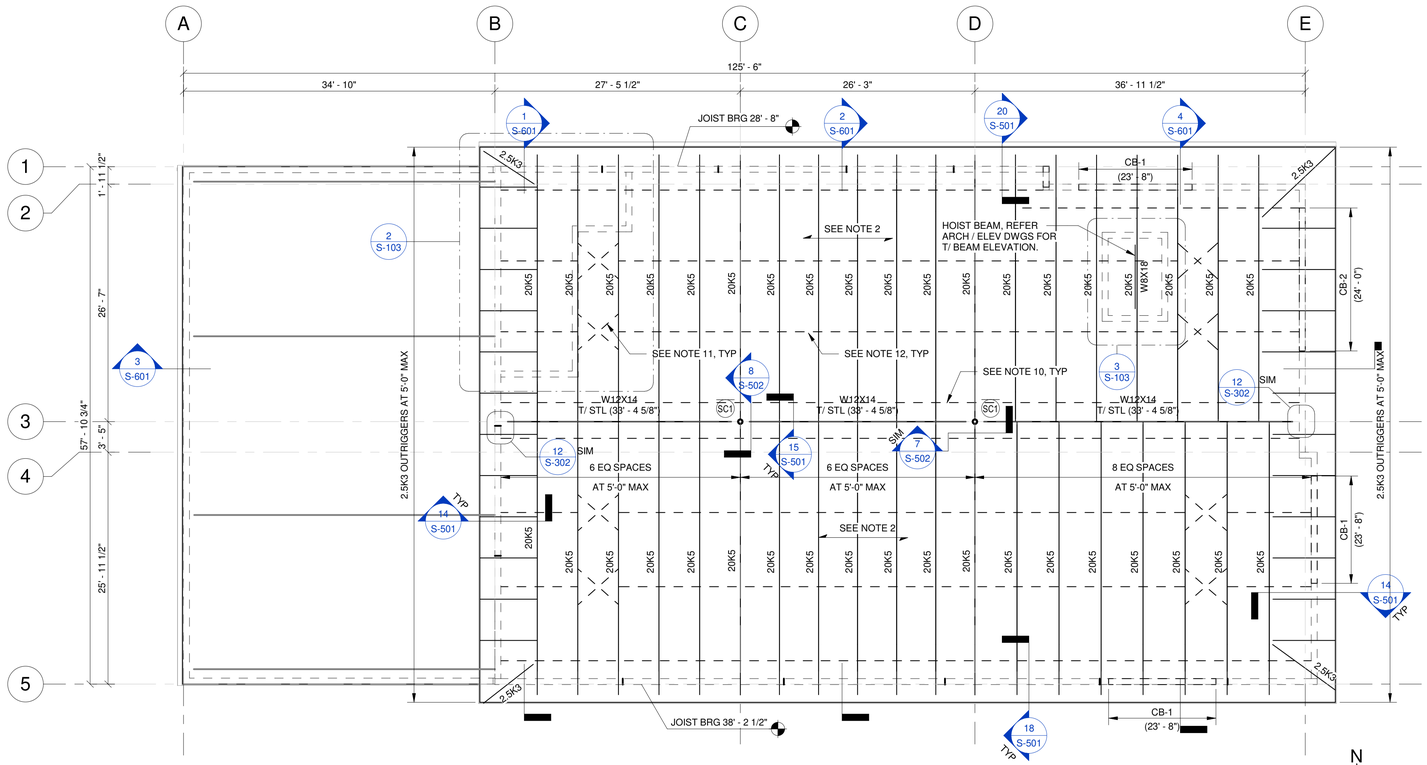
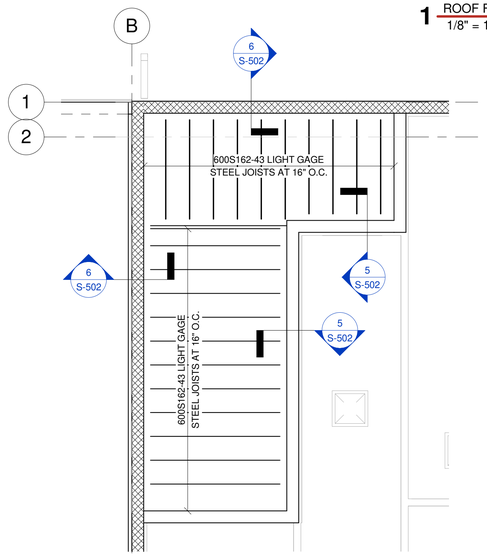
DRAWING TITLE:
SECOND FLOOR FRAMING PLAN

SHEET NO:
S-102



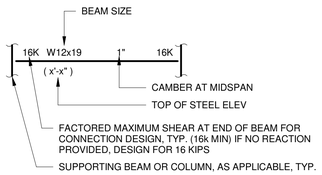
1 ROOF FRAMING PLAN
1/8" = 1'-0"



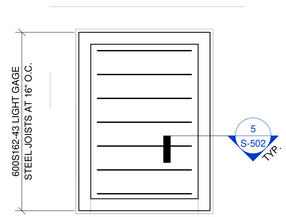
2 STAIR - ROOF FRAMING PLAN
1/4" = 1'-0"

ROOF FRAMING NOTES:

1. TOP OF STEEL ELEVATION = SEE PLAN.
2. 1-1/2" (20 GAGE) G90 GALV TYPE B ROOF DECK. FASTEN ROOF DECK TO SUPPORTS PER ROOF DECK ATTACHMENT SCHEDULE ON TYPICAL ROOF DETAILS SHEET 12/S-501.
3. REFER TO STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DEFINITON OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION AND CRITERIA NOT SHOWN ON PLAN.
4. LOADING CRITERIA IS DEFINED ON DRAWINGS. NOTIFY ENGINEER OF SPECIAL ROOF/CEILING LOADING CONDITIONS NOT OTHERWISE IDENTIFIED ON THE CONTRACT DOCUMENTS.
5. PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
6. INDICATES SPAN DIRECTION OF STRUCTURAL DECK. SEE NOTES ON THIS SHEET FOR DECK SPECIFICATIONS.
7. TOP OF ROOF AND CEILING SLOPE ELEVATIONS AND LOCATIONS VARY AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.
8. FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN BAYS UNLESS NOTED OTHERWISE OR DIMENSIONED ON PLAN.
9. COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS, PENETRATIONS, AND CHASES WITH ARCHITECTURAL AND MEP/FP DRAWINGS.
10. HORIZONTAL BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP.
11. CROSS BRIDGING IN SPACE ADJACENT TO WALL BY JOIST MFR, TYP.
12. UPLIFT BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP.
13. 'TB' DENOTES CONC TIE BEAM, SEE SHEET FOR DETAILS. REFER SCHEDULE ON S-200



NON-COMPOSITE BEAM LEGEND



3 ELEVATOR - ROOF FRAMING PLAN
1/4" = 1'-0"

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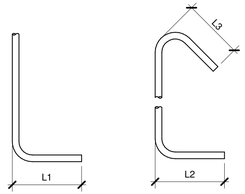
DRAWING TITLE:
ROOF FRAMING PLAN

SHEET NO:
S-103



REINF HOOKS **STIRRUP & TIE HOOKS**

SCHEDULE			
BAR SIZE	REINF HOOK	STIRRUP & TIE HOOKS	
	L1	L2	L3
#3	6"	4"	2 1/2"
#4	8"	4 1/2"	3"
#5	10"	-	-
#6	1'-0"	-	-
#7	1'-2"	-	-
#8	1'-4"	-	-
#9	1'-7"	-	-
#10	1'-10"	-	-
#11	2'-0"	-	-

4 STD HOOK LENGTHS
1" = 1'-0"

Concrete Cover Requirements		
Structural Element	Reinforcement	Cover (in)
Members Not Exposed to Weather or in Contact With Ground		
Slabs	All	3/4"
Joists	All	3/4"
Walls	All	3/4"
Beams	To Stirrups	1 1/2"
Columns	To Stirrups	1 1/2"
Members Exposed to Weather or in Contact With Ground		
Slabs	#5 or Smaller	1 1/2"
	#6 or Larger	2"
Columns/Pedestals	#5 or Smaller	1 1/2"
	#6 or Larger	2"
Walls	#5 or Smaller	1 1/2"
	#6 or Larger	2"
Slab on Grade	WWR	2" From Top
Foundations and Grade Beams	Bottom/Side	3"
	Top	2"

3 CONCRETE COVER REQUIREMENTS
3/4" = 1'-0"

Concrete Tension Lap Splice Lengths								
Bar Size	f'_c = 3000 PSI				f'_c = 4000 PSI			
	Top Bars		Bottom Bars		Top Bars		Bottom Bars	
	A	B	A	B	A	B	A	B
#3	22"	29"	17"	23"	19"	25"	15"	20"
#4	29"	38"	22"	29"	25"	33"	19"	25"
#5	36"	47"	28"	37"	31"	41"	24"	32"
#6	43"	56"	33"	43"	37"	49"	29"	38"
#7	63"	82"	48"	63"	54"	71"	42"	55"
#8	72"	94"	55"	72"	62"	81"	48"	63"
#9	81"	106"	62"	81"	70"	91"	54"	71"
#10	91"	119"	70"	91"	79"	103"	61"	80"
#11	101"	132"	78"	102"	87"	114"	67"	88"
#14	121"	158"	93"	121"	105"	137"	81"	106"

1. TABULATED TENSION LAP SPLICE LENGTHS ARE FOR NORMAL WEIGHT CONCRETE ONLY AND HAVE NOT BEEN FACTORED FOR EXPOXY-COATED BARS.
2. ALL LENGTHS ARE IN INCHES (IN).
3. TABULATED VALUES ARE CALCULATED PER ACI 318-14, CHAPTER 25.
4. WHEN LAP SPLICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE LARGER BAR.
5. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" CONCRETE CAST BELOW REINFORCEMENT.
6. TABLE SHALL APPLY ONLY WHEN ACI 318 MINIMUM COVER IS PROVIDED AND THE CENTER-TO-CENTER SPACING IS ≥ 3db

2 TENSION LAP SPLICE LENGTHS BY CONCRETE COMPRESSIONS STRENGTH
3/4" = 1'-0"

CLASS 'B' SPLICE SCHEDULE

DEVELOPMENT LENGTH SHALL BE PER FOLLOWING TABLE MODIFIED PER NOTES BELOW

GRADE 60 STEEL

NORMAL WEIGHT CONCRETE STRENGTH

BAR	3000 PSI	4000 PSI	5000 PSI	6000 PSI	7000 PSI	8000 PSI	9000 PSI	10000 PSI AND HIGHER
#3	1'-9"	1'-6"	1'-5"	1'-3"	1'-2"	1'-1"	1'-0"	1'-0"
#4	2'-4"	2'-1"	1'-10"	1'-8"	1'-7"	1'-5"	1'-4"	1'-4"
#5	3'-3"	2'-7"	2'-4"	2'-1"	2'-0"	1'-10"	1'-9"	1'-8"
#6	3'-7"	3'-1"	2'-9"	2'-6"	2'-4"	2'-2"	2'-1"	2'-0"
#7	5'-2"	4'-6"	4'-0"	3'-8"	3'-5"	3'-2"	3'-0"	2'-10"
#8	6'-0"	5'-2"	4'-7"	4'-2"	4'-0"	3'-8"	3'-5"	3'-3"
#9	6'-8"	5'-10"	5'-2"	4'-9"	4'-5"	4'-1"	3'-10"	3'-8"
#10	7'-6"	6'-6"	5'-10"	5'-4"	5'-0"	4'-7"	4'-4"	4'-2"
#11	8'-4"	7'-3"	6'-6"	6'-0"	5'-6"	5'-1"	4'-10"	4'-7"

GRADE 75 STEEL

NORMAL WEIGHT CONCRETE STRENGTH

BAR	3000 PSI	4000 PSI	5000 PSI	6000 PSI	7000 PSI	8000 PSI	9000 PSI	10000 PSI AND HIGHER
#3	2'-3"	2'-0"	1'-9"	1'-7"	1'-5"	1'-4"	1'-3"	1'-3"
#4	3'-0"	2'-7"	2'-4"	2'-1"	2'-0"	1'-10"	1'-9"	1'-8"
#5	3'-9"	3'-3"	2'-10"	2'-7"	2'-5"	2'-3"	2'-2"	2'-0"
#6	4'-5"	3'-10"	3'-5"	3'-2"	3'-0"	2'-9"	2'-7"	2'-5"
#7	6'-6"	5'-7"	5'-0"	4'-7"	4'-3"	4'-0"	3'-9"	2'-9"
#8	7'-5"	6'-5"	5'-9"	5'-3"	4'-10"	4'-7"	4'-3"	4'-1"
#9	8'-4"	7'-3"	6'-6"	6'-0"	5'-6"	5'-1"	4'-10"	4'-7"
#10	9'-5"	8'-2"	7'-4"	6'-8"	6'-2"	5'-9"	5'-5"	5'-2"
#11	10'-5"	9'-1"	8'-1"	7'-5"	6'-10"	6'-5"	6'-0"	5'-9"

NOTES:
1. FOR CLEAR SPACING BETWEEN BARS <db AND/OR CLEAR COVER <db, MULTIPLY BY 1.5.
2. FOR TOP BARS MULTIPLY BY 1.3.
3. WHERE MORE THAN ONE FACTOR APPLIES, PRODUCT OF ALL APPLICABLE FACTORS SHALL BE APPLIED.
4. IF DETAILER IS TO USE A DIFFERENT SCHEDULE, HE/SHE MUST SUBMIT A SEALED LETTER INDICATING THAT HIS/HER VALUES CORRESPOND TO CURRENT ACI 318 CODE.

1 CLASS 'B' SPLICE SCHEDULE
12" = 1'-0"

CONCRETE BEAM SCHEDULE

MARK	SIZE WxD (IN)	BOTTOM REINFORCING	TOP REINFORCING	'M' BARS	STIRRUPS	COMMENTS
CB-1	8"x20"	(3)#6	(2)#5	-	#3@12" OC	
CB-2	8"x24"	(3)#6	(2)#5	-	#3@10" OC	
TB-1	8"x16"	(3)#6	(2)#5	-	#3@12" OC	
TB-2	8"x40"	(3)#7	(3)#5	(2)#5	#3@10" OC	

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FLORIDA, 33716

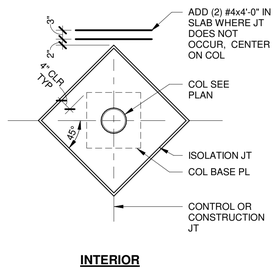
No.	Date	Revision

PROJECT NO:
2025024

DATE: 05/30/2025
DESIGNED BY: AF / DD
DRAWN BY: DMD (I)
CHECKED BY: DD

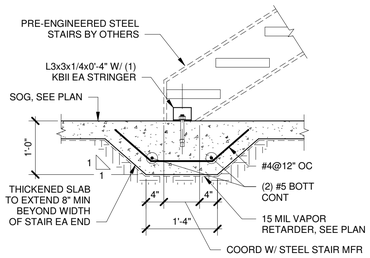
DRAWING TITLE:
SCHEDULES & DETAILS

SHEET NO:
S-200

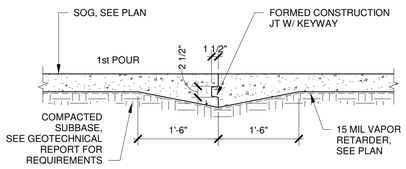


INTERIOR

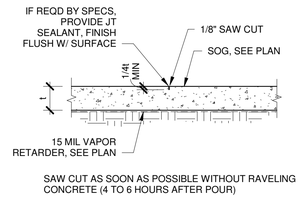
5 ISOLATION JOINTS AT HSS COLUMNS
1/2" = 1'-0"



4 STEEL STAIR FOOTING
3/4" = 1'-0"

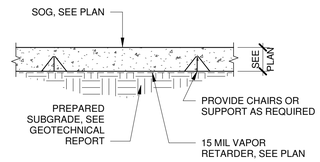


3 CONSTRUCTION JOINT AT SOG
3/4" = 1'-0"



SAW CUT AS SOON AS POSSIBLE WITHOUT RAVELING CONCRETE (4 TO 6 HOURS AFTER POUR)

2 CONTROL JOINT AT SOG (CJ)
1" = 1'-0"



1 WWR AT SOG
1" = 1'-0"

USE WHERE FOOTING THICKNESS IS LESS THAN 2'-0" THICK OR WHEN CLEARANCE TO REINFORCING AS SHOWN CANNOT BE ACHIEVED

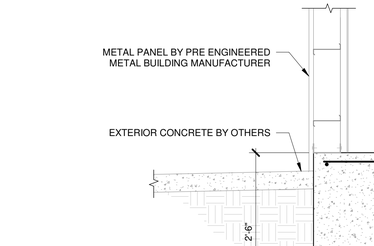
10 PIPE PENETRATION THROUGH FOOTING
3/4" = 1'-0"

NOTES:
* AS REQUIRED NOT LESS THAN 6 UNLESS FORMED EDGE
** OR AS INDICATED ON ARCHL, COORDINATE W/ CIVIL

9 TURNED DOWN SLAB EDGE (TE-1)
3/4" = 1'-0"

NOTE: DO NOT PLACE RE-ENTRANT BARS AT CONTROL JOINT LOCATIONS, UNLESS NOTED OTHERWISE

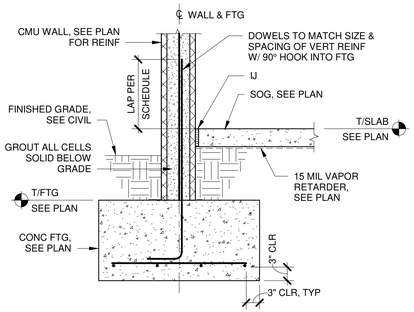
8 SOG REINF AT RE-ENTRANT CORNERS
3/4" = 1'-0"



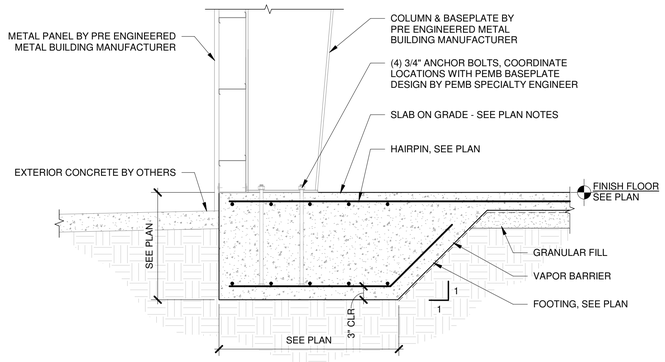
NOTES:
1. PROVIDE SEALANT FOR EXTERNAL JOINTS ONLY.
2. CLEAN AND PREPARE SURFACES TO RECEIVE SEALANT IN ACCORDANCE W/ MFR'S RECOMMENDATIONS.

7 ISOLATION JOINT AT SOG (IJ)
3" = 1'-0"

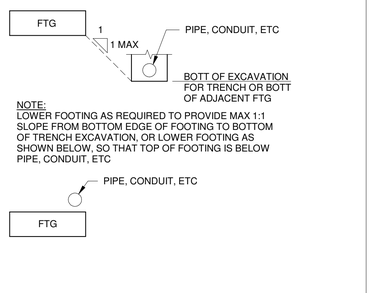
6 TYPICAL HAIRPIN DETAIL
3/4" = 1'-0"



15 CMU AT EXTERIOR WALL FOOTING
3/4" = 1'-0"

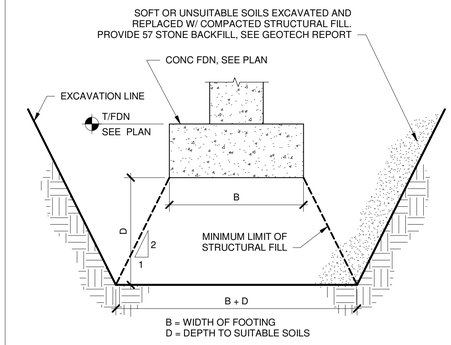


14 SECTION
3/4" = 1'-0"



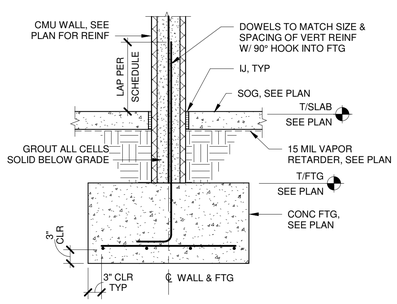
NOTE:
LOWER FOOTING AS REQUIRED TO PROVIDE MAX 1:1 SLOPE FROM BOTTOM EDGE OF FOOTING TO BOTTOM OF TRENCH EXCAVATION, OR LOWER FOOTING AS SHOWN BELOW, SO THAT TOP OF FOOTING IS BELOW PIPE, CONDUIT, ETC

12 FOUNDATION INFLUENCE
3/4" = 1'-0"

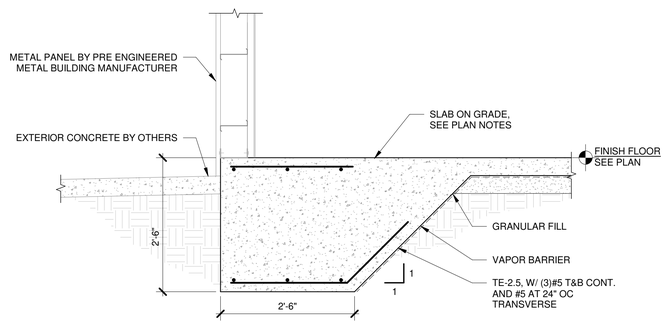


B = WIDTH OF FOOTING
D = DEPTH TO SUITABLE SOILS

11 FOUNDATION UNDERCUTTING
3/4" = 1'-0"



18 CMU AT INTERIOR WALL FOOTING
3/4" = 1'-0"



17 SECTION (TE-2.5)
3/4" = 1'-0"

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No.	Date	Revision

PROJECT NO:
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DATE:	05/30/2025
DESIGNED BY:	AF / DD
DRAWN BY:	DMD (I)
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FOUNDATION SECTIONS & DETAILS

SHEET NO:
S-201

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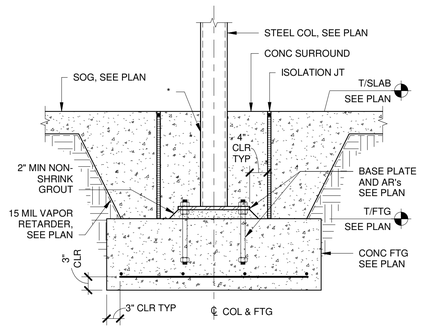
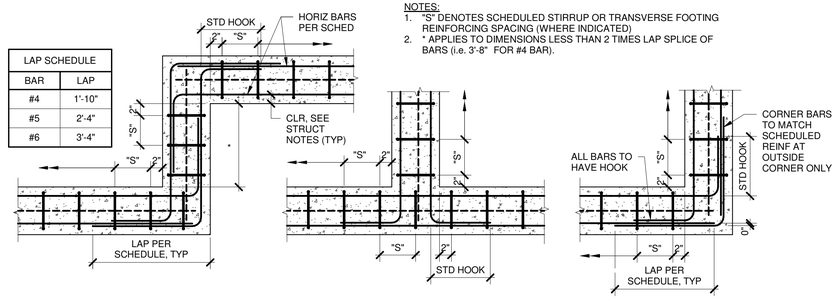


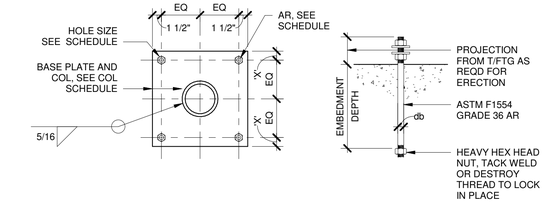
5 HSS OR PIPE COLUMN BASE
3/4" = 1'-0"

LAP SCHEDULE	
BAR	LAP
#4	1'-10"
#5	2'-4"
#6	3'-4"



NOTES:
1. "S" DENOTES SCHEDULED STIRRUP OR TRANSVERSE FOOTING REINFORCING SPACING (WHERE INDICATED)
2. * APPLIES TO DIMENSIONS LESS THAN 2 TIMES LAP SPLICE OF BARS (i.e. 3'-8" FOR #4 BAR).

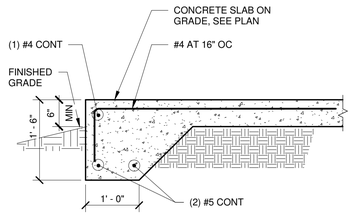
4 FOOTING / TIE BEAM CORNER REINFORCING DETAILS
1" = 1'-0"



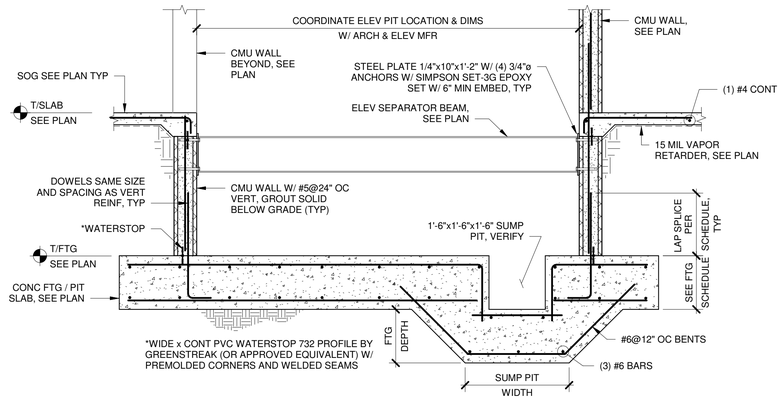
ANCHOR ROD (AR) SCHEDULE					
ANCHOR ROD DIAMETER (db)	EMBEDMENT (UNO)	MAXIMUM HOLE SIZE	'X' EDGE DISTANCE	MIN WASHER SIZE	MIN WASHER THICKNESS
3/4"	1'-0"	1 5/16"	1 1/2"	2"	1/4"
1"	1'-6"	1 13/16"	2 1/8"	3"	3/8"
1 1/4"	1'-10"	2 1/16"	2 5/8"	3"	1/2"

NOTES:
1. SEE COLUMN SCHEDULE FOR ANCHOR ROD SIZES.
2. EMBEDMENT DEPTH DOES NOT APPLY TO BRACED FRAME COLUMNS, SEE FRAME DETAILS FOR EMBEDMENT.

7 ANCHOR ROD SCHEDULE & DETAILS
1" = 1'-0"



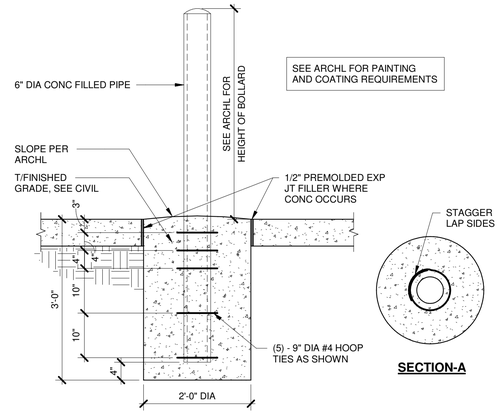
10 THICKENED EDGE DETAIL AT DUMPSTER
3/4" = 1'-0"



14 ELEVATOR PIT SECTION
1/2" = 1'-0"

STEEL COLUMN / BASE PLATE SCHEDULE					
MARK	COLUMN TYPE	SIZE W x L (IN)	THICKNESS	ANCHOR ROD SIZE & QUANTITY	COMMENTS
SC1	HSS ROUND 6x0.500	14x14	3/4"	(4) 3/4"Ø A-325 BOLTS	

19 BASE PLATE SCHEDULE
1/8" = 1'-0"



17 TYPICAL PIPE BOLLARD DETAIL
3/4" = 1'-0"

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2025024

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CHECKED BY: DD

DRAWING TITLE:
FOUNDATION SECTIONS & DETAILS

SHEET NO:
S-202

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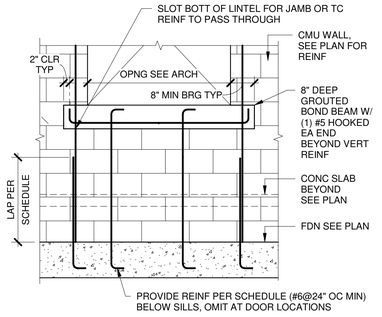
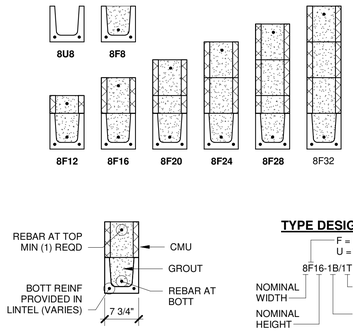


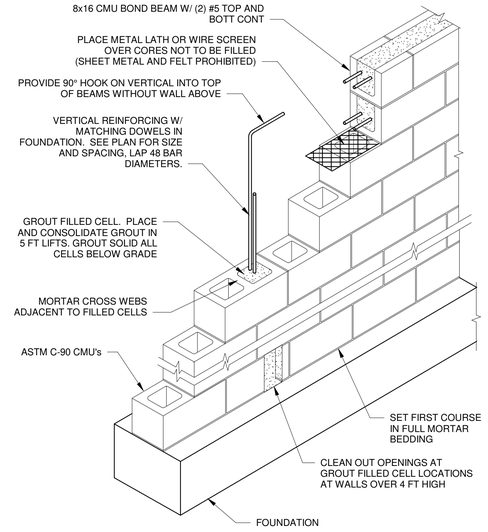
5 CMU WALL OPNG W/ BOND BEAM SILL
1/2" = 1'-0"



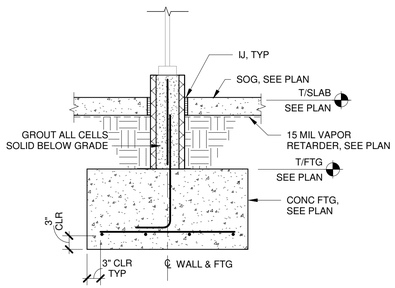
LINTEL SPAN	8" CMU WALL	
	LINTEL DESIGNATION	REMARKS
UP TO 4'-0"	8 F8-1B	-
FROM 4'-1" TO 6'-0"	8 F8-1B/1T	-
FROM 6'-1" TO 8'-0"	8 F16-1B/1T	-
FROM 8'-1" TO 10'-0"	8 F16-2B/2T	-
FROM 10'-1" TO 13'-0"	8 F24-2B/2T	-
OVER 13'-0"	CAST IN PLACE BEAM	SEE PLANS

NOTES:
1. LINTELS SHALL BE "CAST-CRETE" OR EQUIVALENT PRECAST CONCRETE UNO.
2. LINTELS SHALL BEAR 8" MIN ON CMU/CONCRETE AND 3" MINIMUM ON STEEL ANGLES.

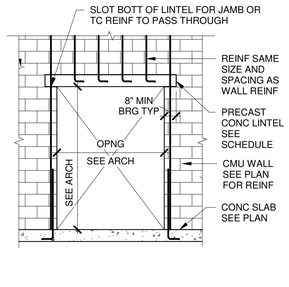
4 LINTEL SCHEDULE AND DETAILS
3/4" = 1'-0"



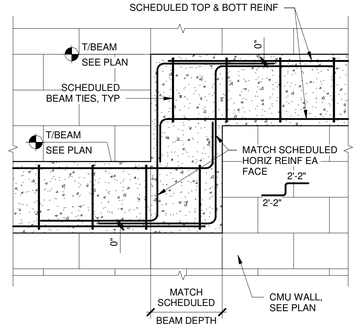
7 TYP MASONRY (CMU) WALL CONSTRUCTION
3/4" = 1'-0"



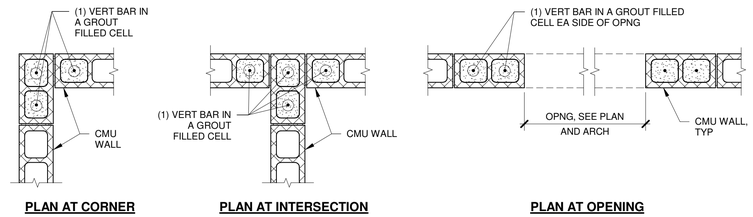
10 CMU AT INTERIOR WALL FOOTING
3/4" = 1'-0"



9 CMU WALL OPNG W/ PRECAST LINTEL
1/4" = 1'-0"

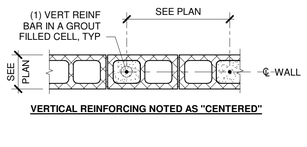


8 STEP IN TIE BEAM IN CMU WALL
3/4" = 1'-0"



NOTES:
1. SEE TYP MASONRY WALL CONSTRUCTION FOR JOINT REINFORCING NOT SHOWN HERE.
2. SEE PLAN FOR REINFORCING SIZE.

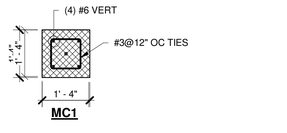
15 REINFORCING AT CMU WALL CORNERS, INTERSECTIONS AND OPENINGS
3/4" = 1'-0"



VERTICAL REINFORCING NOTED AS "CENTERED"

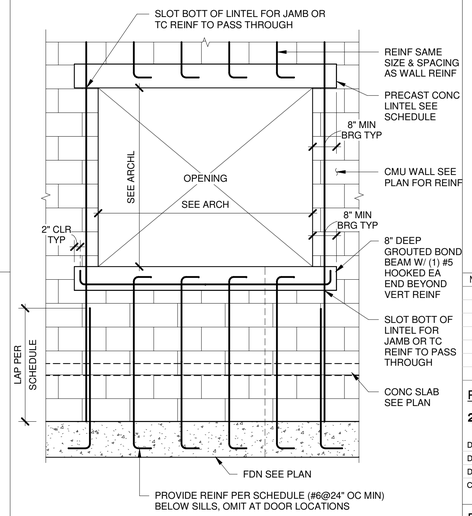
NOTE: SEE PLAN AND CMU WALL SCHEDULE FOR REINFORCING SIZE, SPACING AND ADDITIONAL INFORMATION.

13 CMU BAR PLACEMENT REQUIREMENTS
3/4" = 1'-0"



NOTES:
1. GROUT ALL CELLS SOLID FULL HEIGHT UNLESS NOTED OTHERWISE.
2. SEE CMU WALL CONSTRUCTION DETAILFOR ADDITIONAL CMU REINFORCING REQUIREMENTS.
3. SEE PLAN FOR COLUMN LOCATIONS AND ORIENTATIONS.
4. SEE ARCHITECTURAL DRAWINGS FOR FINISHES AND ADDITIONAL INFORMATION.

12 CMU COLUMN DETAILS
1/2" = 1'-0"



16 CMU WINDOW OPNG W/ PRECAST LINTEL & BOND BM SILL
S-601 | 1/2" = 1'-0"

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NEW OFFICE BUILDING
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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
2025024

DATE: 05/30/2025
DESIGNED BY: AF / DD
DRAWN BY: DMD (I)
CHECKED BY: DD

DRAWING TITLE:
TYPICAL CMU DETAILS

SHEET NO:
S-301

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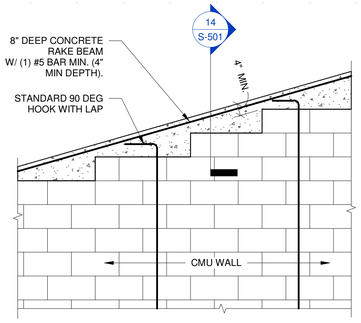
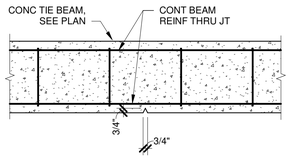


5 CMU AT RAKED TIE BEAM
1/2" = 1'-0"

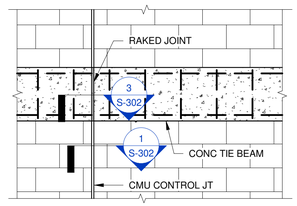
CMU WALL SCHEDULE			
MARK	THICKNESS	REINFORCING	COMMENTS
MW1	8"	#5@24" OC	-

NOTES:
PROVIDE A MINIMUM OF (1) #5 VERT REINF BAR IN A GROUT FILLED CELL AT ALL WALL INTERSECTIONS, CORNERS, ENDS OF WALLS AND AT EDGES OF ALL WALL OPENINGS EXCEEDING 2'-0" IN WIDTH. INTERIOR WALLS DO NOT REQUIRE VERT REINF UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE ON PLAN. SEE TYP MASONRY (CMU) WALL CONSTRUCTION DETAIL FOR ADDITIONAL CMU WALL REINFORCING REQUIREMENTS.

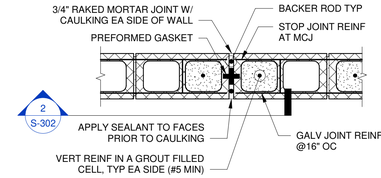
4 CMU WALL SCHEDULE
3/4" = 1'-0"



3 SECTION AT MCJ
1" = 1'-0"

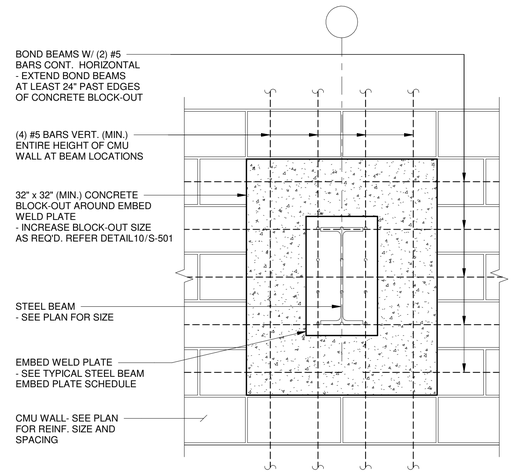


2 SECTION AT MCJ
1/2" = 1'-0"



NOTES:
1. MAXIMUM ALLOWABLE JOINT SPACING = 25'-0" UNLESS NOTED OTHERWISE ON PLAN.
2. JOINTS IN FINISH MUST ALIGN WITH MASONRY (CMU) JOINTS.
3. SEE PLAN FOR REINFORCING SIZE AND SPACING.
4. JOINTS ARE NOT TO OCCUR IN A SHEAR WALL UNLESS SPECIFICALLY DETAILED ON PLAN. CONTACT THE STRUCTURAL ENGINEER OF RECORD IN THE EVENT THAT A JOINT FALLS WITHIN A SHEAR WALL.
5. DO NOT PLACE MASONRY CONTROL JOINTS WITHIN 24" OF LOAD BEARING PILASTERS OR OPENINGS.
6. CONTRACTOR TO VERIFY CONTROL JOINT LOCATIONS WITH PROJECT ARCHITECT.

1 MASONRY CONTROL JOINT (MCJ) REINFORCING
1" = 1'-0"



NOTE:
1. CONTRACTOR IS RESPONSIBLE TO COORDINATE ANY DISCREPANCIES BETWEEN THIS DETAIL AND INFORMATION IN THE PLANS AND SECTIONS DRAWINGS. DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION AND ERECTION.
2. REFER TO TYPICAL STEEL BEAM EMBED SCHEDULE DETAIL FOR REQUIRED NUMBER OF HEADED STUD ANCHORS AND DOUBLE ANGLE CONNECTION SIZE.

12 STEEL BEAM CONNECTION AT CMU WALL
1" = 1'-0"

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FLORIDA, 33716

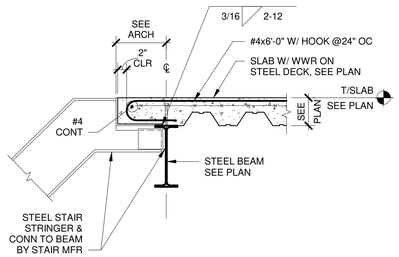
No.	Date	Revision

PROJECT NO:
2025024

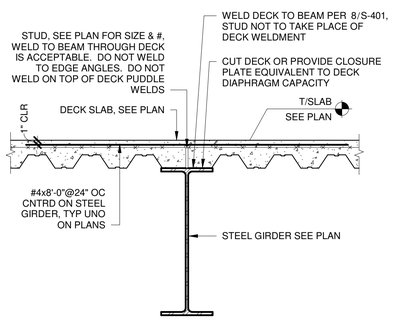
DATE: 05/30/2025
DESIGNED BY: AF / DD
DRAWN BY: DMD (I)
CHECKED BY: DD

DRAWING TITLE:
TYPICAL CMU DETAILS

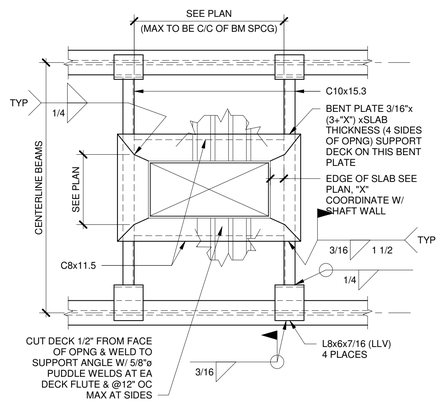
SHEET NO:
S-302



5 STEEL STAIR CONNECTION
3/4" = 1'-0"

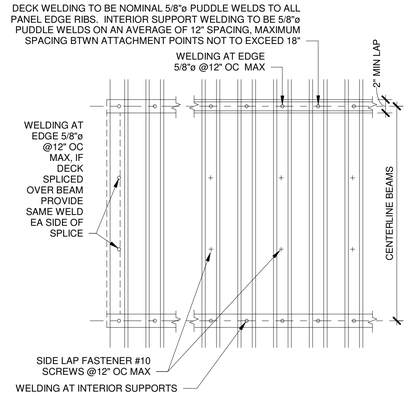


10 COMPOSITE DECK AT GIRDER CONNECTION
3/4" = 1'-0"



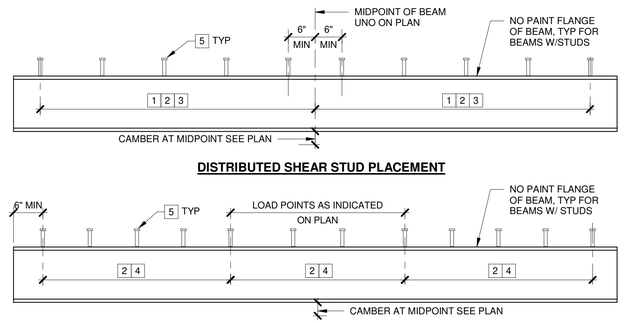
NOTE: "C" BEAMS SHOWN NOT INTENDED FOR SUPPORT OF CMU

9 COMPOSITE SLAB OPENING DETAIL
3/4" = 1'-0"



ALTERNATE: USE APPROVED MECHANICAL FASTENERS IN LAYOUT SHOWN

8 COMPOSITE FLOOR DECK FASTENING
3/4" = 1'-0"



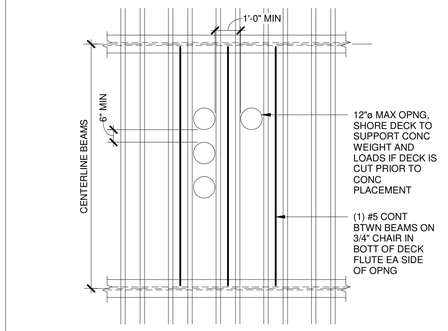
DISTRIBUTED SHEAR STUD PLACEMENT

GROUPED SHEAR STUD PLACEMENT

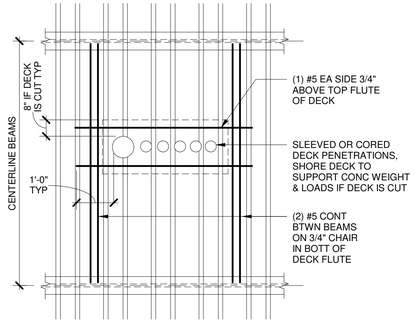
SHEAR STUD PLACEMENT

1. EQUALLY DISTRIBUTE ONE HALF OF SHEAR CONNECTORS INDICATED ON PLAN EACH SIDE OF BEAM MIDPOINT OR LOAD POINTS INDICATED ON PLANS, STARTING FROM EACH END OF SPAN. SEE PLAN FOR NUMBER OF STUDS.
2. SPACING OF SHEAR CONNECTORS SHALL NOT EXCEED 8 TIMES THE TOTAL SLAB THICKNESS AND NO GREATER THAN 36" OC. SPACING SHALL BE NO CLOSER THAN 6x STUD DIAMETER OR DISTANCE BETWEEN FLUTES FOR STEEL DECKS WHEN DECK FLUTE IS PERPENDICULAR TO BEAM. COORDINATE STUD LAYOUT WITH DECK SECTIONS USED.
3. DOUBLE OR TRIPLE STUDS IF REQUIRED. DOUBLE AND TRIPLE STUD PLACEMENT TO BE SYMMETRICAL ABOUT BEAM WEB. MAINTAIN 4x STUD DIAMETER TRANSVERSE SPACING BETWEEN STUDS IN PARALLEL ROWS, WITH A MINIMUM EDGE DISTANCE OF 1 1/2 STUD DIAMETERS, 1" MINIMUM.
4. EQUALLY DISTRIBUTE SHEAR CONNECTORS INDICATED ON PLANS FOR EACH GIRDER SEGMENT BETWEEN LOAD POINTS (BEAMS WHICH FRAME INTO GIRDER).
5. SEE PLAN FOR STUD SIZE. NUMBER OF STUDS REQUIRED PER BEAM IS INDICATED BY (#).

7 COMPOSITE STEEL BEAM STUD PLACEMENT
3/4" = 1'-0"

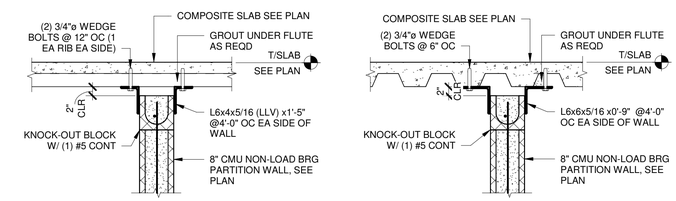


ISOLATED OPENINGS



MULTIPLE OPENINGS

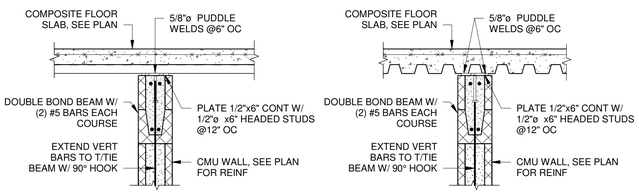
14 COMPOSITE SLAB PIPE PENETRATION DETAIL
1" = 1'-0"



DECK PERPENDICULAR **DECK PARALLEL**

NOTE: DO NOT ATTACH ANGLES TO CMU PARTITION WALL.

12 BRACING AT CMU NON LOAD BEARING PARTITION WALL
3/4" = 1'-0"



DECK PERPENDICULAR **DECK PARALLEL**

18 COMPOSITE SLAB DECK BEARING OVER CMU WALL
3/4" = 1'-0"

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
2025024

DATE:	05/30/2025
DESIGNED BY:	AF / DD
DRAWN BY:	DMD (I)
CHECKED BY:	DD

DRAWING TITLE:
COMPOSITE STEEL DETAILS

SHEET NO:
S-401

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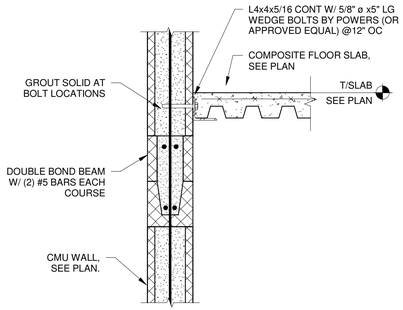
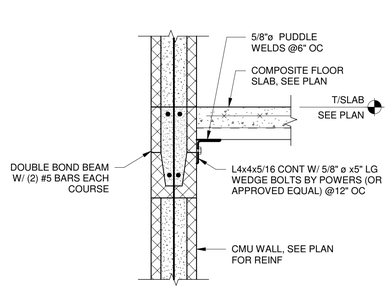
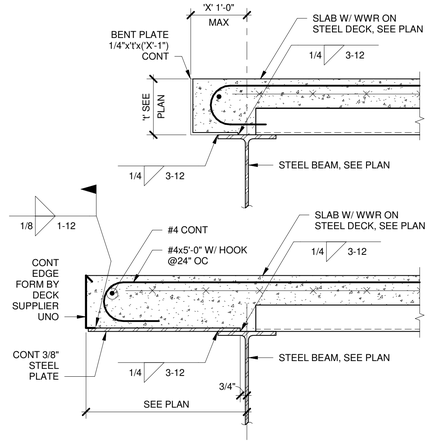


5 COMPOSITE DECK TO BOND BEAM CONNECTION
1" = 1'-0"

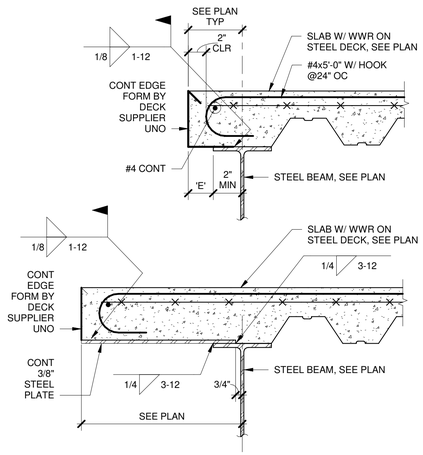


4 COMPOSITE DECK TO BOND BEAM CONNECTION
1" = 1'-0"

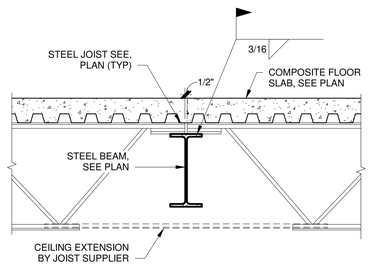


8 DECK EDGE DETAIL - DECK PERPENDICULAR
1 1/2" = 1'-0"

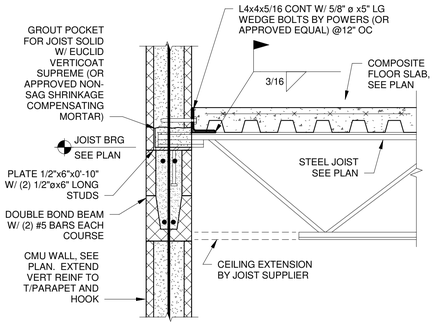
'E'	GAGE (GA)
2"	18
3"	16
4" & 5"	14
6" & 7"	12
8" & 9"	10



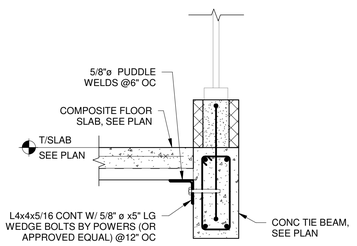
7 DECK EDGE DETAIL - DECK PARALLEL
1 1/2" = 1'-0"



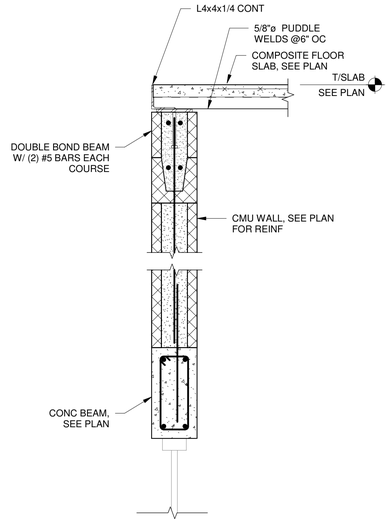
10 JOIST BRG AT STEEL BEAM
3/4" = 1'-0"



9 JOIST END BRG AT CMU WALL
1" = 1'-0"



12 COMPOSITE DECK TO CONCRETE TIE BEAM CONNECTION
1" = 1'-0"



16 COMPOSITE DECK TO CONCRETE TIE BEAM CONNECTION
1" = 1'-0"

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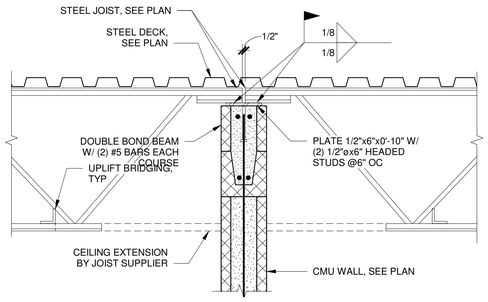
No.	Date	Revision

PROJECT NO:
2025024

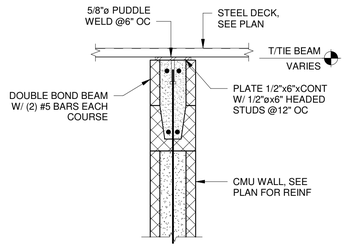
DATE: 05/30/2025
DESIGNED BY: AF / DD
DRAWN BY: DMD (I)
CHECKED BY: DD

DRAWING TITLE:
COMPOSITE STEEL DETAILS

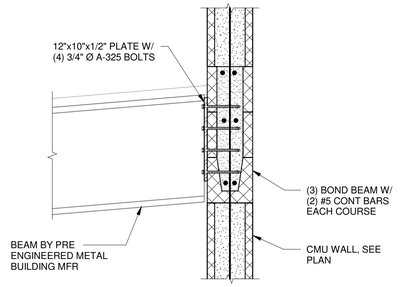
SHEET NO:
S-402



5 JOIST BRG ON CMU WALL
1" = 1'-0"

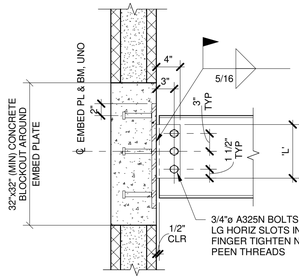


3 DECK BRG OVER CMU WALL
1" = 1'-0"



2 SECTION
1" = 1'-0"

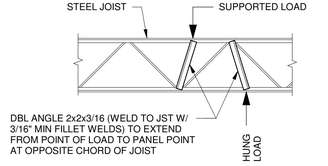
CONNECTION SCHEDULE		
BEAM SIZE	**MIN NO. 3/4"ø A325 BOLTS PER ANGLE LEG**	**MIN NO. 3/4"ø A325 BOLTS KNIFE PLATE CONNECTION**
W10	2	2
W12, W14	3	3
W16	4	4
W18	5	5
W21	6	6



SCHEDULE					
BEAM SIZE	**# ROWS OF BOLTS**	**EMBED PLATE (PL)**		**GUSSET PL THICKNESS**	**'L'**
		PL*	**STUDS**		
W8, W10	2	5/8x10x0'-10"	(4) 3/4"øx4 7/8" LG	3/8"	6"
W12, W14	3	5/8x10x1'-2"	(6) 3/4"øx4 7/8" LG	3/8"	9"
W16, W18	4	5/8x10x1'-6"	(6) 3/4"øx4 7/8" LG	3/8"	12"

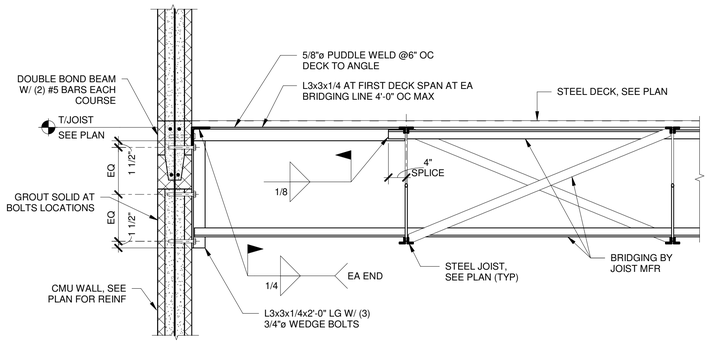
*LONG DIMENSION VERTICAL

10 STEEL BEAM TO CONCRETE CONNECTION SCHEDULE
1" = 1'-0"

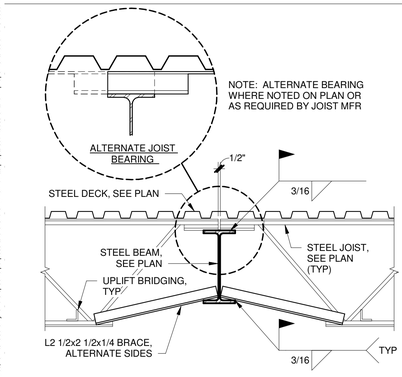


NOTES:
1. PROVIDE REINFORCING AT SUPPORTED OR HUNG LOADS >300#.
2. DETAIL NOT REQUIRED IF LOAD IS APPLIED DIRECTLY TO JOIST PANEL POINT.
3. COMPLY WITH JOIST MANUFACTURER'S REQUIREMENTS.

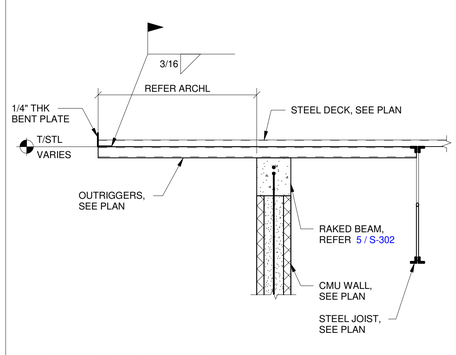
8 JOIST REINFORCING AT POINT LOADS
3/4" = 1'-0"



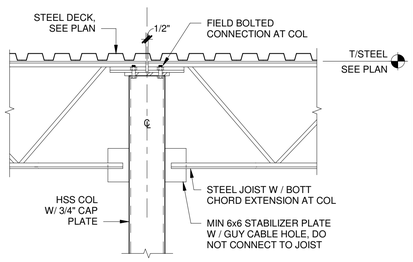
7 BRIDGING TERMINATION AT CONC BEAM
3/4" = 1'-0"



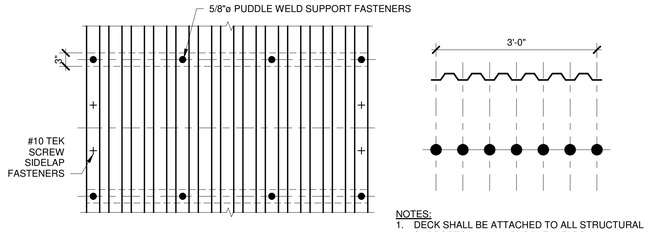
15 JOIST BEARING AT STEEL BEAM
3/4" = 1'-0"



14 SECTION AT OUTRIGGERS
3/4" = 1'-0"



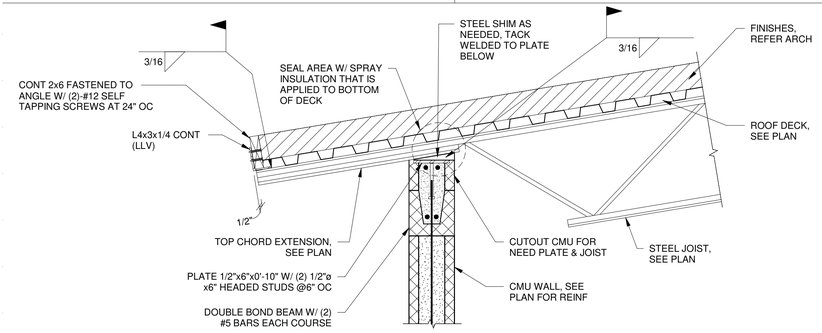
13 JOIST TO HSS COLUMN CONN
3/4" = 1'-0"



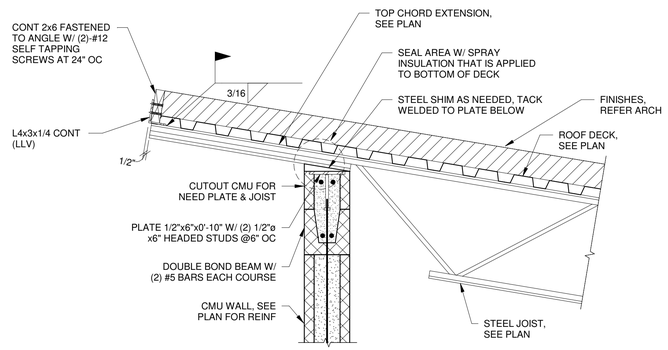
SCHEDULE		
MARK	**# OF WELDS AT SUPPORTS**	**# OF SIDE LAP FASTENERS BETWEEN SUPPORTS**
36/7	(7) 5/8" DIA WELDS	(10) SIDELAP #10 SCREWS

NOTES:
1. DECK SHALL BE ATTACHED TO ALL STRUCTURAL SUPPORTS W/ 5/8"ø PUDDLE WELDS.
2. SIDE LAPS BETWEEN STRUCTURAL SUPPORTS SHALL BE FASTENED BY #10 TEK SCREWS.
3. DECK SHALL BE ATTACHED TO ALL PERIMETER SUPPORTS WITH 5/8"ø PUDDLE WELDS AT 6" OC MAX.
4. END LAPS SHALL BE A MINIMUM OF 3" AND SHALL OCCUR OVER SUPPORTS.

12 ROOF DECK ATTACHMENT SCHEDULE
3/4" = 1'-0"



20 JOIST TOP CHORD EXTENSION
1" = 1'-0"



18 JOIST TOP CHORD EXTENSION
1" = 1'-0"

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DANIEL DIAZ LICENSE No. 95657 STATE OF FLORIDA PROFESSIONAL ENGINEER

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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBERG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
2025024

DATE: 05/30/2025
DESIGNED BY: AF / DD
DRAWN BY: DMD (I)
CHECKED BY: DD

DRAWING TITLE:
TYPICAL ROOF FRAMING DETAILS

SHEET NO:
S-501

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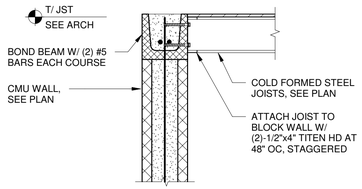
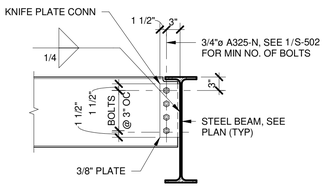


5 CFS JOIST BRG ON CMU WALL
1" = 1'-0"

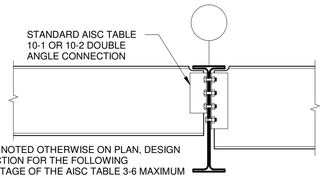


STANDARD AISC TABLE
10-9a CONNECTION

NOTE: SHORT-SLOTTED
HOLES ARE PERMITTED
IN BEAM WEB

UNLESS NOTED OTHERWISE ON PLAN, DESIGN CONNECTION FOR THE FOLLOWING PERCENTAGE OF THE AISC TABLE 3-6 MAXIMUM TOTAL UNIFORM LOAD:
NON-COMPOSITE BEAMS: 50%
COMPOSITE BEAMS: 75%
MINIMUM DESIGN LOAD: 15 KIPS (FACTORED)

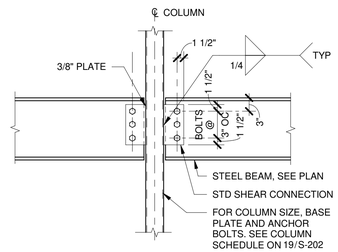
4 ALTERNATE SHEAR TAB BM TO BM CONNECTION
3/4" = 1'-0"



UNLESS NOTED OTHERWISE ON PLAN, DESIGN CONNECTION FOR THE FOLLOWING PERCENTAGE OF THE AISC TABLE 3-6 MAXIMUM TOTAL UNIFORM LOAD:
NON-COMPOSITE BEAMS: 50%
COMPOSITE BEAMS: 75%
MINIMUM DESIGN LOAD: 16 KIPS (FACTORED)

NOTES:
1. SEE X/S-501 FOR MINIMUM NUMBER OF BOLTS.
2. DETAIL CONNECTIONS TO COMPLY W/ OSHA SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY, 29 CFR 1926 PART R SAFETY STANDARDS FOR STEEL ERECTION.

3 WF BEAM TO BEAM CONN
3/4" = 1'-0"

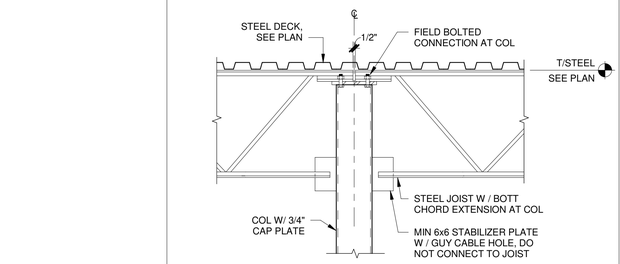


2 STEEL BEAM TO HSS COLUMN CONN
3/4" = 1'-0"

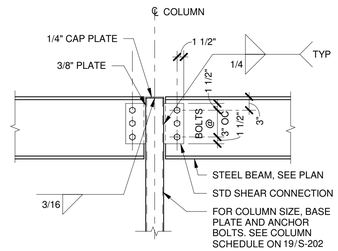
CONNECTION SCHEDULE

BEAM SIZE	MIN NO. 3/4"ø A325 BOLTS PER ANGLE LEG	MIN NO. 3/4"ø A325 BOLTS KNIFE PLATE CONNECTION
W10	2	2
W12, W14	3	3
W16	4	4
W18	5	5
W21	6	6
W24, W27	7	7

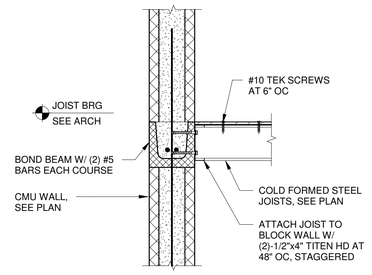
1 MIN RQMTS FOR WF BM TO COL & BM TO BM CONNECTION SCHEDULE
3/4" = 1'-0"



8 JOIST TO HSS COLUMN CONN
3/4" = 1'-0"



7 STEEL BEAM TO HSS COLUMN CONN
3/4" = 1'-0"



6 CFS JOIST BRG ON CMU WALL
1" = 1'-0"

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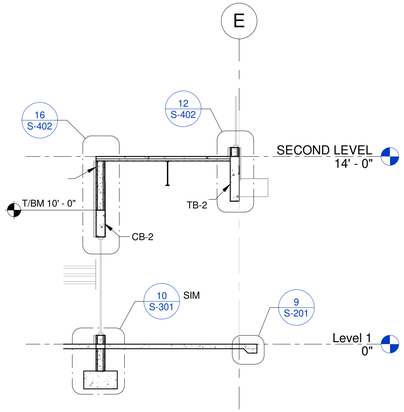
No.	Date	Revision

PROJECT NO:
2025024

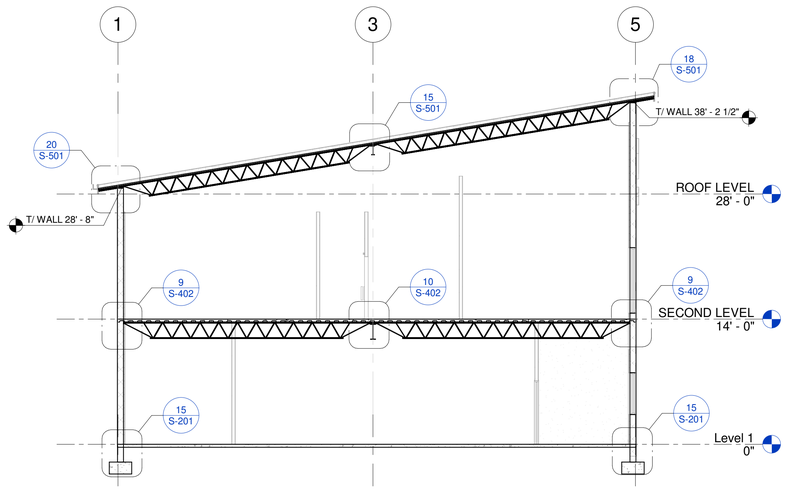
DATE: 05/30/2025
DESIGNED BY: AF / DD
DRAWN BY: DMD (I)
CHECKED BY: DD

DRAWING TITLE:
TYPICAL ROOF FRAMING DETAILS

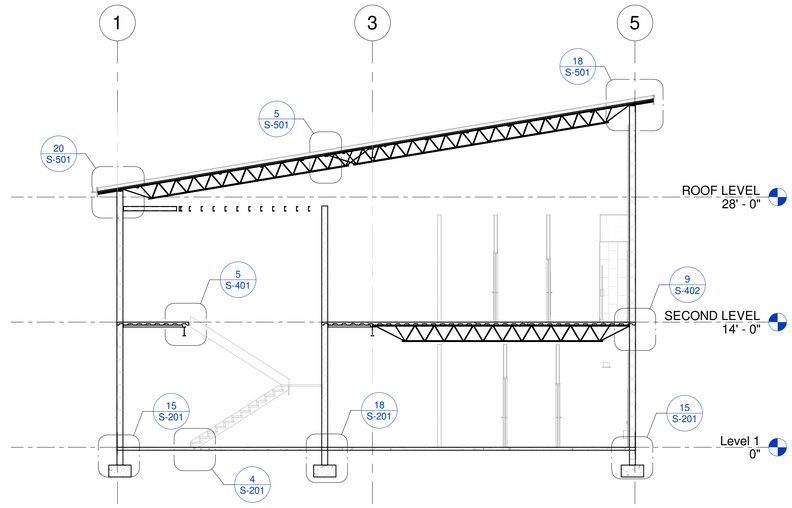
SHEET NO:
S-502



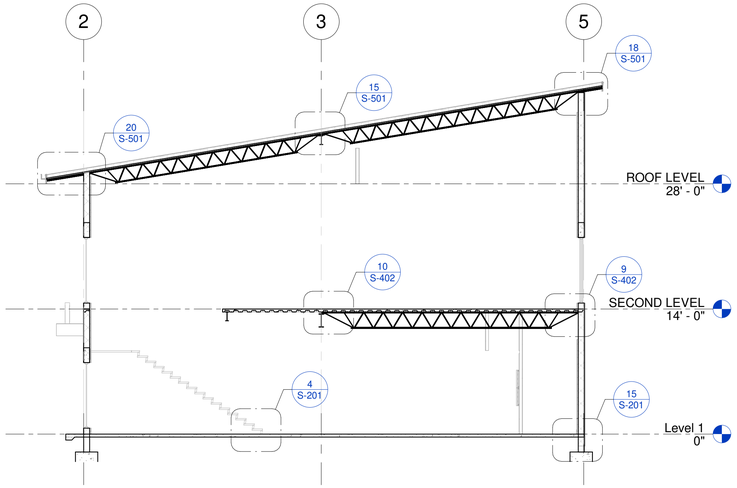
5 BUILDING SECTION
3/16" = 1'-0"



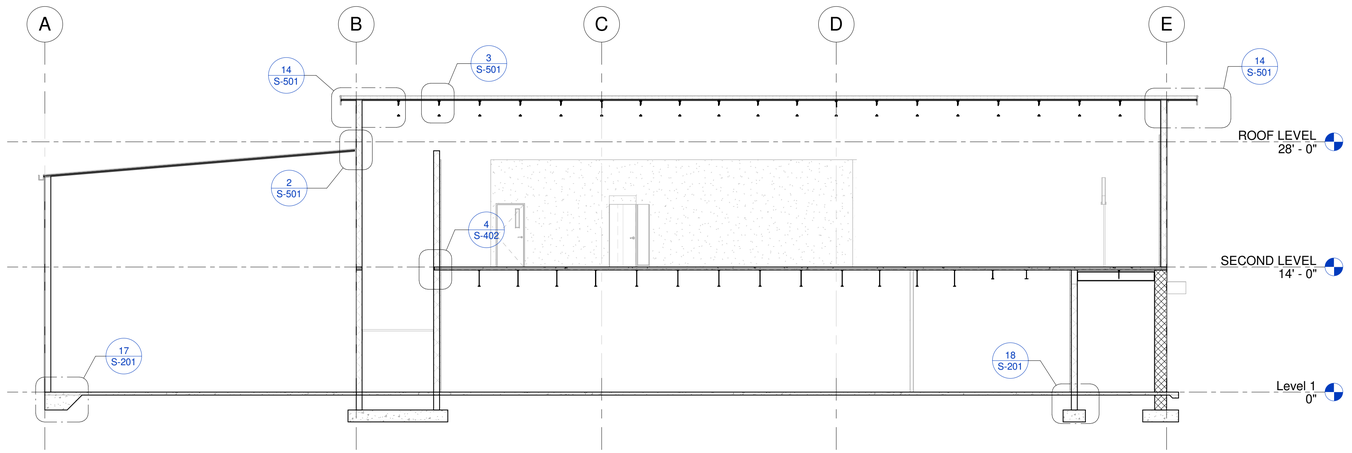
2 BUILDING SECTION
1/8" = 1'-0"



1 BUILDING SECTION
1/8" = 1'-0"



4 BUILDING SECTION
1/8" = 1'-0"



3 BUILDING SECTION
1/8" = 1'-0"

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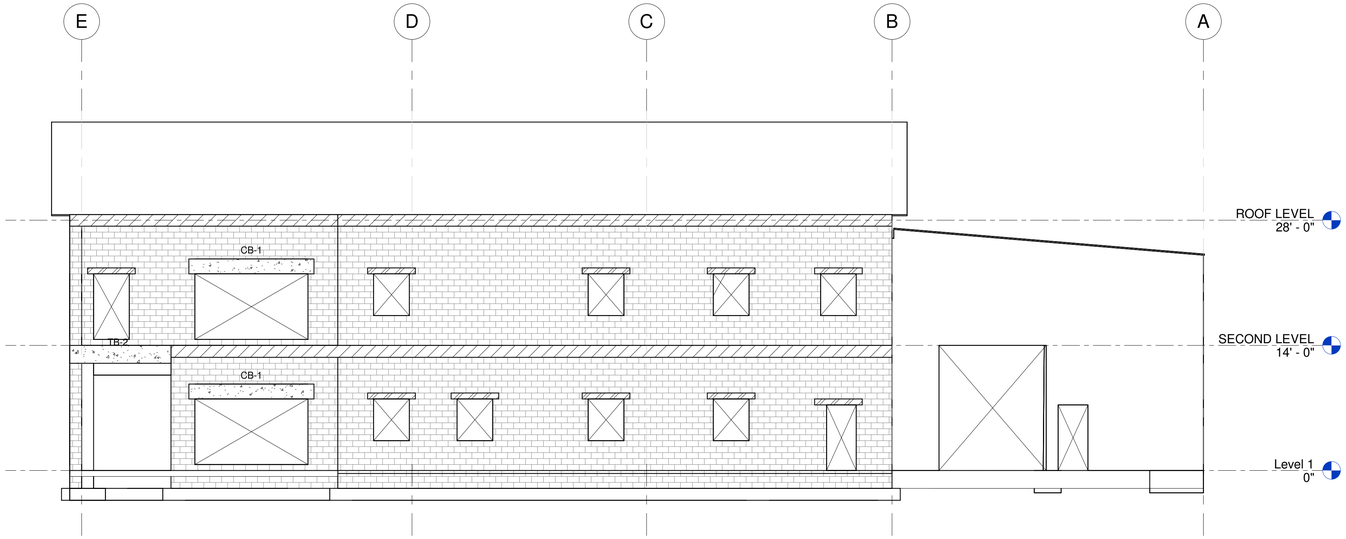
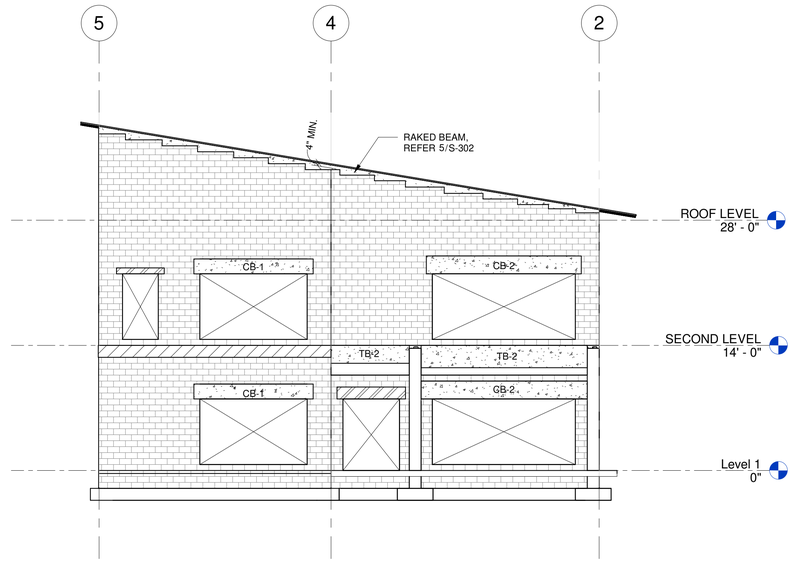
DRAWN BY: DMD (I)
CHECKED BY: DD

DRAWING TITLE:
BUILDING SECTIONS

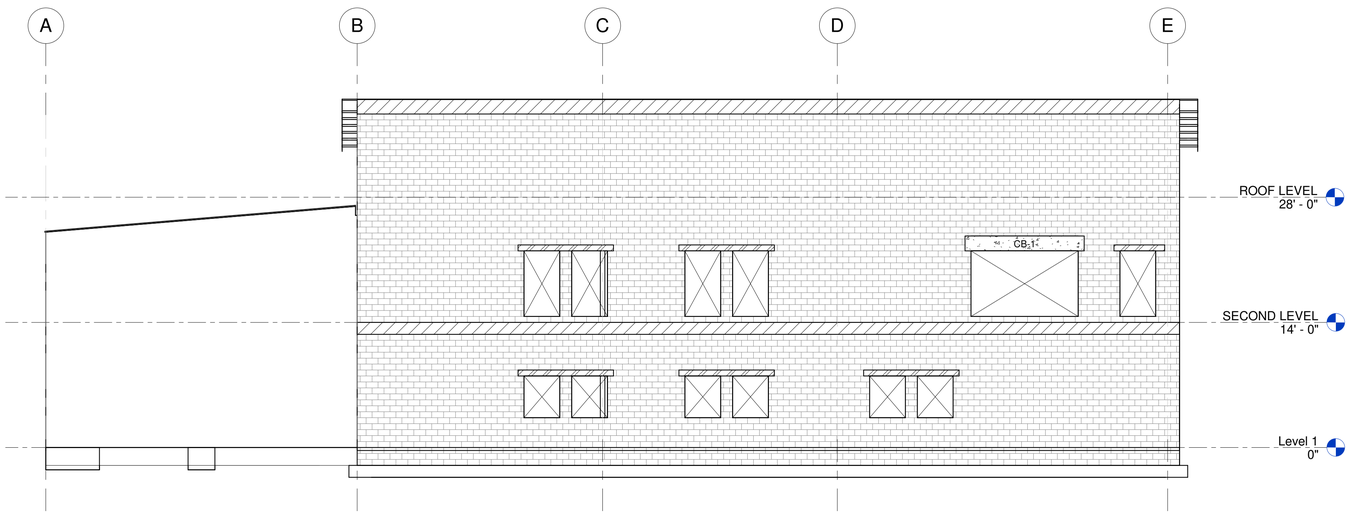
SHEET NO:
S-601



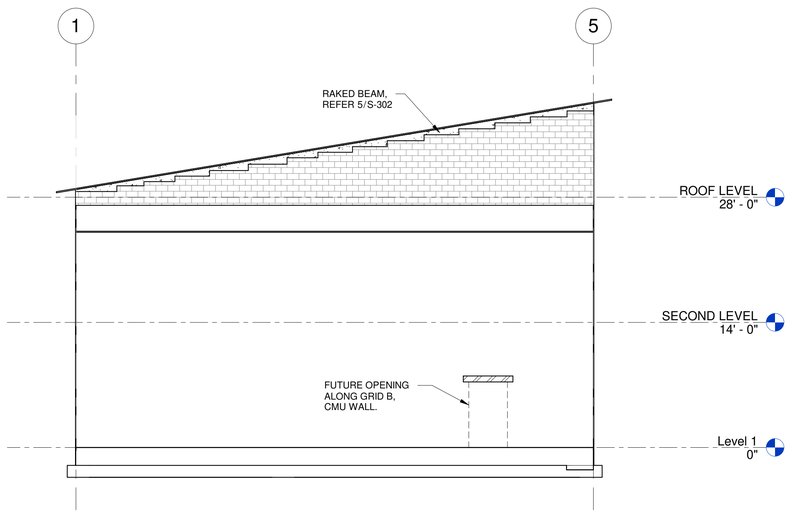
2 NORTH WALL ELEVATION
1/8" = 1'-0"



1 EAST WALL ELEVATION
1/8" = 1'-0"



4 SOUTH WALL ELEVATION
1/8" = 1'-0"



3 WEST WALL ELEVATION
1/8" = 1'-0"

LEGEND	
	INDICATES CONCRETE TIE BEAM
	INDICATES DOUBLE BOND BEAM
	INDICATES PRECAST LINTEL, REFER 4/S-301

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DRAWN BY:	DMD (I)
CHECKED BY:	DD

DRAWING TITLE:
BUILDING ELEVATIONS

SHEET NO:
S-602

HVAC GENERAL NOTES

1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
2. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE ALL WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. COORDINATE NEW WORK WITH ELEMENTS SUCH AS THE BUILDING STRUCTURE, ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT.
3. DUCTWORK CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCTWORK CONSTRUCTION STANDARD.
4. PROVIDE 1.5R ELBOWS IN DUCTWORK AS INDICATED ON DRAWING. IF 1.5R ELBOWS DO NOT FIT, PROVIDE 1.0R ELBOWS. IF 1.0R ELBOWS DO NOT FIT, PROVIDE 90 DEGREE RECTANGULAR DUCT ELBOWS WITH TURNING VANES.
5. COORDINATE DIFFUSER, GRILLE, AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
6. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
7. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
8. ALL DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
9. DAMPERS AND INSIDES OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
10. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING, OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
11. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOW. ALL SPLIT DUCTWORK FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
12. COORDINATE SIZE REQUIREMENTS OF ALL CONCRETE PADS.
13. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTWORK TO BE CONNECTED.
14. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS.
15. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
16. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10'-0" CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS. LOWEST POINTS OF EACH OUTSIDE AIR ON ROOF SHALL BE A MINIMUM OF 24" ABOVE ROOF.
17. DUCTWORK RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
18. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
19. DUCTWORK AND PIPING INSTALLED INSIDE THE BUILDING SHALL BE KEPT A MINIMUM OF THREE FEET (MEASURE HORIZONTALLY) FROM THE FACE OF ALL ELECTRICAL PANELS, SWITCH GEAR, AND TRANSFORMERS REGARDLESS OF THE DIFFERENCE IN ELEVATION BETWEEN THE UTILITIES AND THE ELECTRICAL EQUIPMENT.

PROJECT CLOSEOUT

1. SUBMIT TEST AND BALANCE REPORT TO GENERAL CONTRACTOR, OWNER, AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
2. UPDATE AS-BUILT DRAWINGS TO REFLECT FINAL INSTALL CONDITIONS, INCLUDING DUCTWORK, PIPING, AND EQUIPMENT LOCATIONS. SUBMIT ONE COPY OF AS-BUILT DOCUMENTATION TO GENERAL CONTRACTOR, OWNER, AND ENGINEER OF RECORD.
3. PREPARE O&M MANUALS WITH EQUIPMENT SPECIFICATIONS, MAINTENANCE SCHEDULES, AND OPERATING INSTRUCTIONS. PROVIDE DIGITAL AND HARD COPIES TO THE OWNER.
4. CONDUCT TRAINING SESSIONS FOR THE OWNER'S MAINTENANCE STAFF (OR DIRECTLY TO OWNER) FOR SYSTEMS OPERATION, TROUBLE SHOOTING, AND MAINTENANCE.
5. PROVIDE ALL WARRANTY DOCUMENTATION FOR HVAC EQUIPMENT IN A CONSOLIDATED LOCATION AND PROVIDE TO OWNER. COORDINATE SERVICE MAINTENANCE CONTRACT OPPORTUNITIES WITH OWNER. COORDINATE ANY EXTENDED WARRANTY OPPORTUNITIES WITH OWNER.
6. PROVIDE A SPARE MOTOR FOR EACH DIFFERENT AIR HANDLER MOTOR HORSEPOWER THAT IS INSTALLED. PROVIDE (1) SET OF SPARE FILTERS FOR EACH PIECE OF EQUIPMENT. PROVIDE (1) SPARE BELT FOR ANY BELT DRIVE EQUIPMENT INSTALLED.

HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION
	-CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-CEILING RETURN
	-CEILING EXHAUST
M	-MOTOR OPERATED CONTROL DAMPER (MOD)
	-MANUAL BALANCING DAMPER
	-FLEXIBLE DUCT
	-TRANSITION, CONCENTRIC
	-TRANSITION, ECCENTRIC
	-SQUARE THROAT ELBOW W/TURNING VANES
	-RADIUS ELBOW
	-RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF
	-STANDARD BRANCH TAKE-OFF
	-SPIN-IN TAKE-OFF
UP DN	-DUCT ELBOW, POSITIVE PRESSURE (SUPPLY)
UP DN	-DUCT ELBOW, EXHAUST
UP DN	-DUCT ELBOW, NEGATIVE PRESSURE, RETURN
	-SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
	-RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
FD	-FIRE DAMPER
XX	-REVISION REFERENCE
T H	-TEMPERATURE / HUMIDITY SENSOR
	-DUCT SMOKE DETECTOR
XX	-SHEET NOTE CALLOUT
	-CEILING MOUNTED ACCESS DOOR
	-DEMO TO
	-CONNECT TO

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFF	-ABOVE FINISHED FLOOR	MBH	-THOUSAND BTUs PER HOUR
AFR	-ABOVE FINISHED ROOF	MCA	-MINIMUM CIRCUIT AMPS
AHU	-AIR HANDLING UNIT	MOCP	-MAXIMUM OVER CURRENT PROTECTION
AP	-ACCESS PANEL	NC	-NORMALLY CLOSED
BOP	-BOTTOM OF PIPE	NO	-NORMALLY OPEN
BHP	-BRAKE HORSEPOWER	NTS	-NOT TO SCALE
BTU	-BRITISH THERMAL UNIT	OA	-OUTSIDE AIR
$\mathcal{L}$	-CENTER LINE	OAL	-OUTSIDE AIR LOUVER
$\mathcal{F}$	-CFM (CUBIC FEET PER MINUTE)	PRV	-PRESSURE REDUCING VALVE
CD	-CEILING DIFFUSER	PRS	-PRESSURE REDUCING STATION
CT	-COOLING TOWER	PSI	-POUNDS PER SQUARE INCH
CV	-CONSTANT AIR VOLUME	PSIG	-PSI GAUGE
CFM	-CUBIC FEET PER MINUTE	PTAC	-PACKAGED TERMINAL AIR CONDITIONER
CU	-CONDENSING UNIT	PVC	-POLYVINYL CHLORIDE PIPE
DDC	-DIRECT DIGITAL CONTROLS	RA	-RETURN AIR
DN	-DOWN	REF.	-REFRIGERANT PIPING (SUCTION & LIQUID)
DW	-DRYWELL	RPM	-REVOLUTIONS PER MINUTE
EAT	-ENTERING AIR TEMPERATURE	RTU	-ROOFTOP AIR HANDLING UNIT
ESP	-EXTERNAL STATIC PRESSURE	SA	-SUPPLY AIR
EWT	-ENTERING WATER TEMPERATURE	SP	-STATIC PRESSURE
FCU	-FAN COIL UNIT	TSP	-TOTAL STATIC PRESSURE
FD	-FIRE DAMPER	UNO	-UNLESS NOTED OTHERWISE
FF	-FINAL FILTERS	V/PH	-VOLTS/PHASE
FLA	-FULL LOAD AMPS	VAV	-VARIABLE AIR VOLUME
FPM	-FEET PER MINUTE	VFD	-VARIABLE FREQUENCY DRIVE
GD	-GRAVITY DAMPER	VRF	-VARIABLE REFRIGERANT FLOW
KW	-KILOWATT	$\triangle$P	-CHANGE IN PRESSURE
LAT	-LEAVING AIR TEMPERATURE	$\triangle$T	-CHANGE IN TEMPERATURE
LWT	-LEAVING WATER TEMPERATURE		

MECHANICAL EQUIPMENT TAGS

DIFFUSER/GRILLE TAG: A / 300 CFM / CFM

AHU-1-1: AHU FLOOR LOCATION - AHU NUMBER - AIR HANDLING UNIT

TERMINAL UNIT TYPE: VAV - VARIABLE VOLUME; CAV - CONSTANT VOLUME

VTU-1-1-1: AHU NUMBER - TERMINAL UNIT NUMBER

APPLICABLE CODES & STANDARDS

FLORIDA BUILDING CODE - MECHANICAL 2023 EDITION
FLORIDA BUILDING CODE - PLUMBING 2023 EDITION
FLORIDA BUILDING CODE - ENERGY CONSERVATION 2023 EDITION
FLORIDA ADMINISTRATIVE CODE - 69A-3.012
NFPA-13, STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS - 2019 EDITION
NFPA-70, NATIONAL ELECTRICAL CODE - 2020 EDITION
NFPA-72, NATIONAL FIRE ALARM CODE - 2019 EDITION
NFPA-90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2021 EDITION
NFPA-90B, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS - 2021 EDITION

SHEET INDEX

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M121	DUCTWORK PLAN - SECOND FLOOR
M211	PIPING PLAN - FIRST FLOOR
M221	PIPING PLAN - SECOND FLOOR
M301	HVAC DETAILS
M302	HVAC DETAILS
M401	HVAC SCHEDULES
M501	HVAC SPECIFICATIONS

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CA PROJ NO. 2503

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No. 84275
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No.	Date	Revision

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HVAC GENERAL NOTES, LEGEND, AND SHEET INDEX

SHEET NO:
M001

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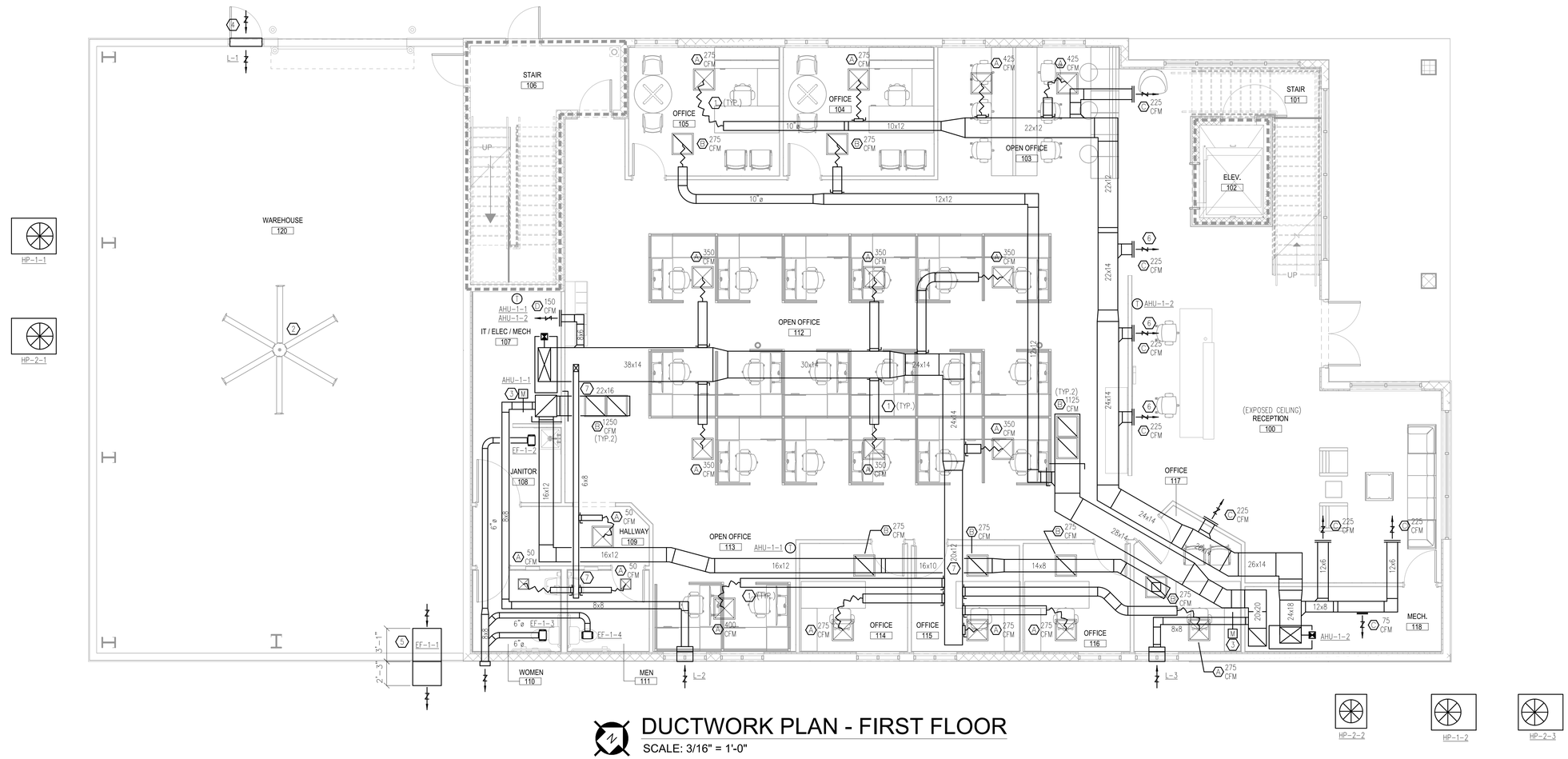
DRAWING NOTES:

1. CONTRACTOR SHALL PROVIDE DEDUCT ALTERNATE PRICING TO PROVIDE DUCT BOARD IN LIEU OF SHEET METAL DUCTWORK. DUCT BOARD SHALL BE RATED FOR +/- 2 IN. WG. AND SHALL HAVE A MINIMUM INSULATION RATING OF R-6.
2. FIRE RATED WALL, REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.
3. ALL CEILING AREAS SUCH AS RECEPTION AND MECH./ELECT./I.T. ROOMS WHERE STRUCTURE AND CEILING ARE TO REMAIN EXPOSED TO SPACE BELOW AS PART OF THE FINAL ARCHITECTURAL EXPRESSION MUST BE EXECUTED AND FINISHED TO HIGH QUALITY AND STANDARD OF WORKMANSHIP. ALL SUBCONTRACTORS TO COORDINATE ROUTING AND INSTALLATIONS TO ENSURE CLEAN, SQUARE, ORDERLY, AND PARALLEL ALIGNMENT WHERE POSSIBLE. WHEN INSTALLATIONS ARE COMPLETE ALL EXPOSED STRUCTURE, PIPES, CONDUITS, WIRING, DUCTS, ETC. IN THE EXPOSED CEILING AREAS TO BE PAINTED A UNIFORM COLOR TO BE SELECTED BY THE ARCHITECT.

KEY NOTES:

1. BRANCH DUCTWORK TO AIR DISTRIBUTION DEVICES SHALL MATCH SIZE INDICATED ON AIR DISTRIBUTION SCHEDULE UNLESS NOTED OTHERWISE.
2. FUTURE FAN EQUIVALENT TO POWERFOIL FAN BY BIG ASS FAN COMPANY EQUAL TO FAN MODEL X4 OR EQUIVALENT, 12 FT DIAMETER 135 RPM, 208V, 3PH, 1.5 HP, 15A BKR. FURNISH WITH ONBOARD VFD AND REMOTE WALL MOUNTED KEY PAD.
3. MOTORIZED OUTDOOR AIR DAMPER. DAMPER SHALL OPEN TO OUTDOOR AIR SETPOINT UPON UNIT STARTUP AND SHALL SHUT UPON UNIT SHUTDOWN.
4. OUTDOOR AIR LOUVER LOCATED ABOVE DOOR. BOTTOM OF LOUVER SHALL BE INSTALLED 8'-0" ABOVE FINISHED FLOOR. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR ADDITIONAL INFORMATION.
5. BOTTOM OF EXHAUST FAN INSTALLED 16'-0" ABOVE FINISHED FLOOR. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR ADDITIONAL INFORMATION.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF SIDEWALL GRILLES IN WOOD CLADDING.
7. ROUTE SUPPLY DUCTWORK OVER TOP RETURN DUCTWORK BY UTILIZING SPACE BETWEEN STRUCTURE.



DUCTWORK PLAN - FIRST FLOOR

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

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DUCTWORK PLAN - FIRST FLOOR

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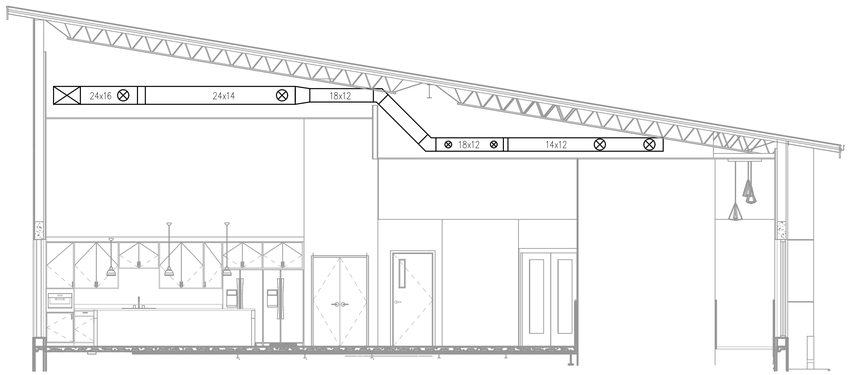


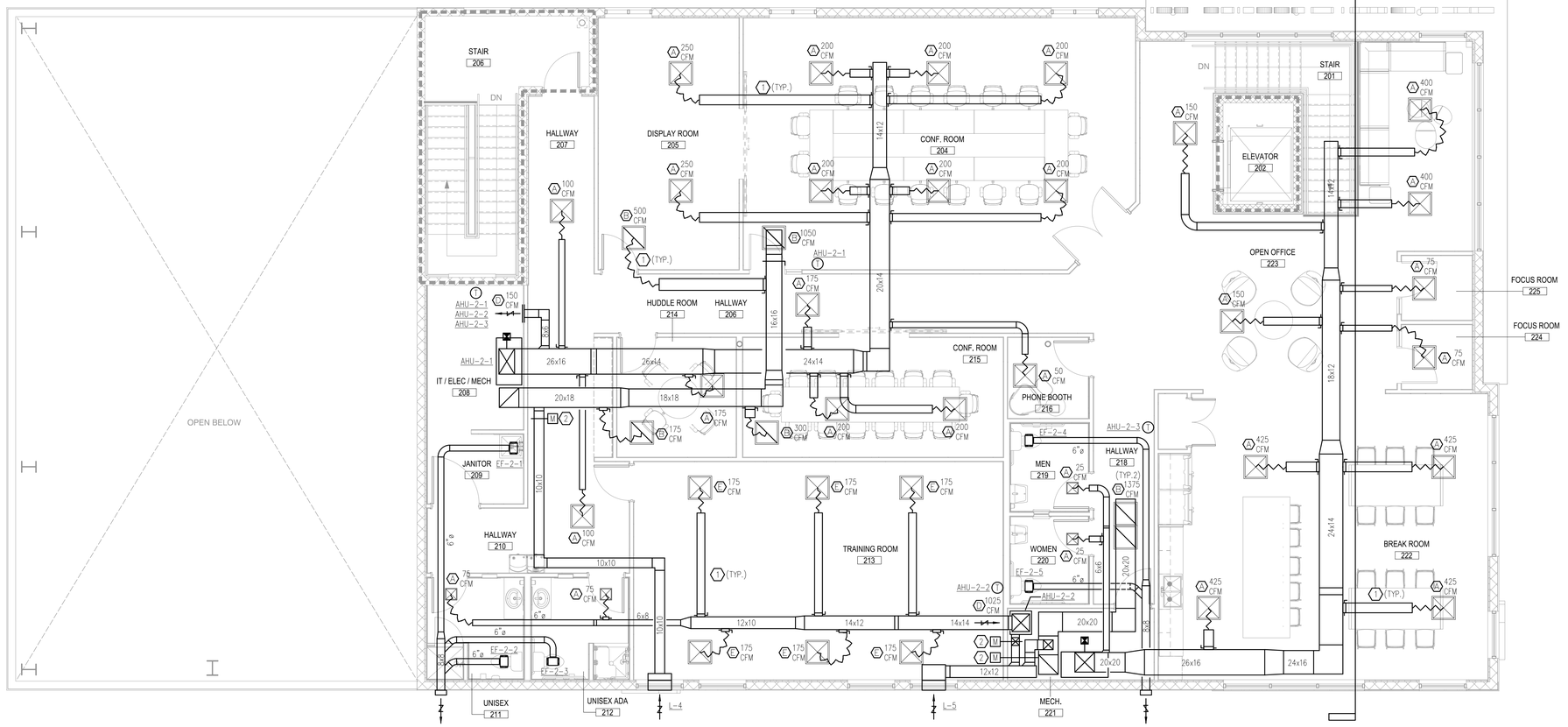
1 DUCTWORK SECTION VIEW
SCALE: 3/16" = 1'-0"

DRAWING NOTES:

1. CONTRACTOR SHALL PROVIDE DEDUCT ALTERNATE PRICING TO PROVIDE DUCT BOARD IN LIEU OF SHEET METAL DUCTWORK. DUCT BOARD SHALL BE RATED FOR +/- 2 IN. WG. AND SHALL HAVE A MINIMUM INSULATION RATING OF R-6.
2. FIRE RATED WALL, REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.
3. ALL CEILING AREAS SUCH AS RECEPTION AND MECH./ELECT./I.T. ROOMS WHERE STRUCTURE AND CEILING ARE TO REMAIN EXPOSED TO SPACE BELOW AS PART OF THE FINAL ARCHITECTURAL EXPRESSION MUST BE EXECUTED AND FINISHED TO HIGH QUALITY AND STANDARD OF WORKMANSHIP. ALL SUBCONTRACTORS TO COORDINATE ROUTING AND INSTALLATIONS TO ENSURE CLEAN, SQUARE, ORDERLY, AND PARALLEL ALIGNMENT WHERE POSSIBLE. WHEN INSTALLATIONS ARE COMPLETE ALL EXPOSED STRUCTURE, PIPES, CONDUITS, WIRING, DUCTS, ETC. IN THE EXPOSED CEILING AREAS TO BE PAINTED A UNIFORM COLOR TO BE SELECTED BY THE ARCHITECT.

KEY NOTES:

1. BRANCH DUCTWORK TO AIR DISTRIBUTION DEVICES SHALL MATCH SIZE INDICATED ON AIR DISTRIBUTION SCHEDULE UNLESS NOTED OTHERWISE.
2. MOTORIZED OUTDOOR AIR DAMPER. DAMPER SHALL OPEN TO OUTDOOR AIR SETPOINT UPON UNIT STARTUP AND SHALL SHUT UPON UNIT SHUTDOWN.



DUCTWORK PLAN - SECOND FLOOR
SCALE: 3/16" = 1'-0"

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DUCTWORK PLAN - SECOND FLOOR

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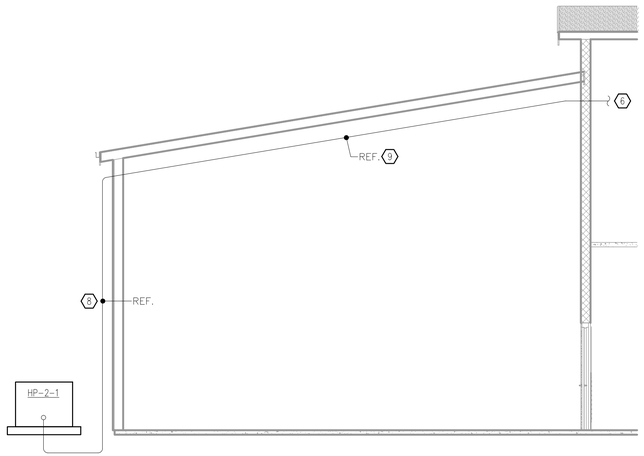


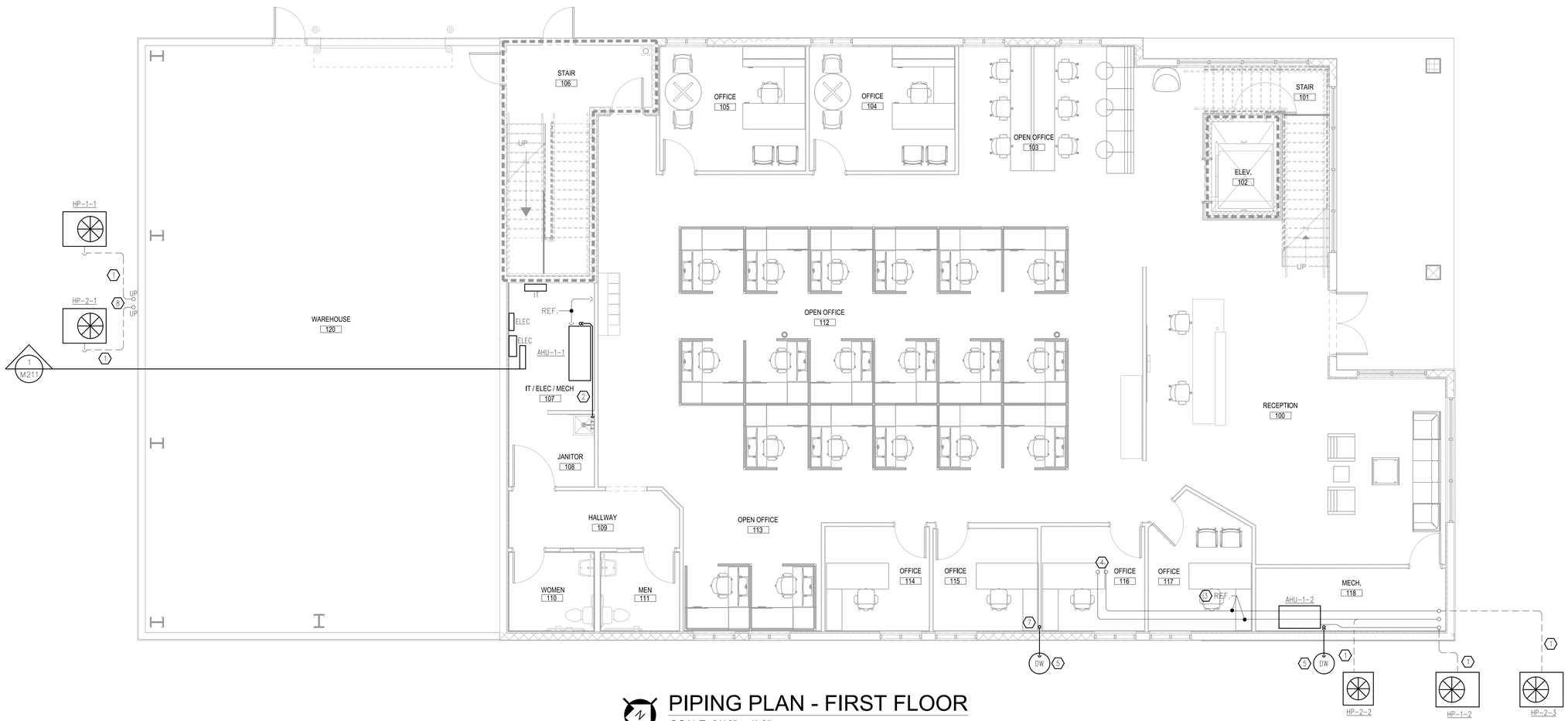
1 PIPING SECTION VIEW
SCALE: 3/16" = 1'-0"

DRAWING NOTES:

1. FIRE RATED WALL, REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL CEILING AREAS SUCH AS RECEPTION AND MECH./ELECT./I.T. ROOMS WHERE STRUCTURE AND CEILING ARE TO REMAIN EXPOSED TO SPACE BELOW AS PART OF THE FINAL ARCHITECTURAL EXPRESSION MUST BE EXECUTED AND FINISHED TO HIGH QUALITY AND STANDARD OF WORKMANSHIP. ALL SUBCONTRACTORS TO COORDINATE ROUTING AND INSTALLATIONS TO ENSURE CLEAN, SQUARE, ORDERLY, AND PARALLEL ALIGNMENT WHERE POSSIBLE. WHEN INSTALLATIONS ARE COMPLETE ALL EXPOSED STRUCTURE, PIPES, CONDUITS, WIRING, DUCTS, ETC. IN THE EXPOSED CEILING AREAS TO BE PAINTED A UNIFORM COLOR TO BE SELECTED BY THE ARCHITECT.

KEY NOTES:

1. REFRIGERANT LIQUID AND SUCTION PIPING ROUTED BELOW GRADE TO RISER LOCATION. CONTRACTOR SHALL CONFIRM PIPE SIZING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
2. 3/4" CONDENSATE DRAIN TO MOP SINK.
3. REFRIGERANT PIPING FOR 2ND FLOOR UNITS ROUTED TIGHT TO STRUCTURE.
4. REFRIGERANT PIPING UP TO 2ND FLOOR MECHANICAL ROOM.
5. 3/4" CONDENSATE DRAIN DISCHARGE TO NEW DRYWELL.
6. REFRIGERANT PIPING CONTINUATION TO AHU-1-1 AND AHU-1-2.
7. 3/4" CONDENSATE DOWN FROM 2ND FLOOR MECHANICAL ROOM.
8. PROVIDE ALUMINUM REFRIGERANT PIPE SHROUD FOR EXPOSED PIPING ROUTED UP SIDE OF EXTERIOR WALL.
9. ROUTE REFRIGERANT PIPING TIGHT TO STRUCTURE.



PIPING PLAN - FIRST FLOOR
SCALE: 3/16" = 1'-0"

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PIPING PLAN - FIRST FLOOR

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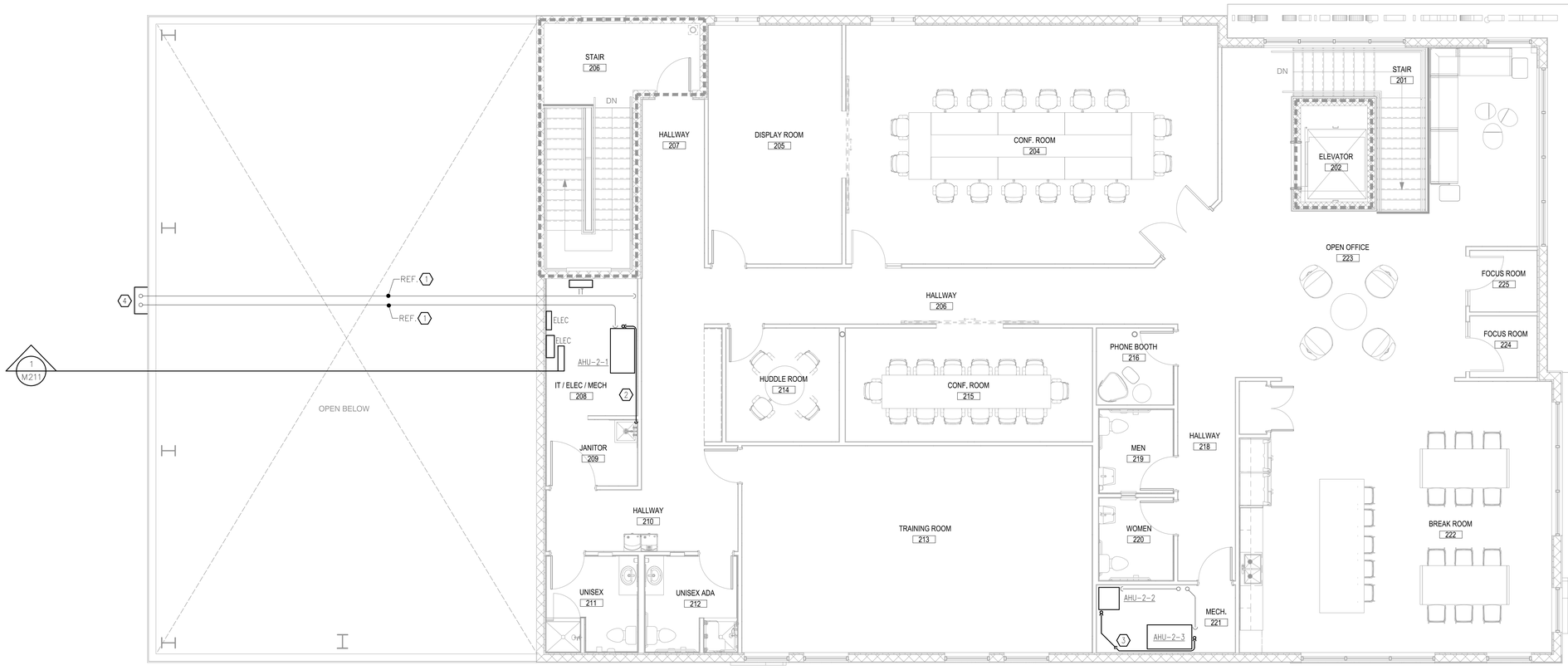
KEY NOTES:

1. ROUTE REFRIGERANT PIPING TIGHT TO STRUCTURE.
2. 3/4" CONDENSATE DRAIN TO MOP SINK.
3. 3/4" CONDENSATE DRAIN TO DOWN TO FLOOR BELOW.
4. PROVIDE ALUMINUM REFRIGERANT PIPE SHROUD FOR EXPOSED PIPING ROUTED UP SIDE OF EXTERIOR WALL.



PIPING PLAN - SECOND FLOOR

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

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PIPING PLAN - SECOND FLOOR

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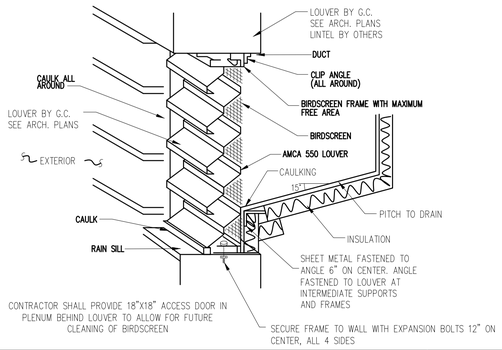
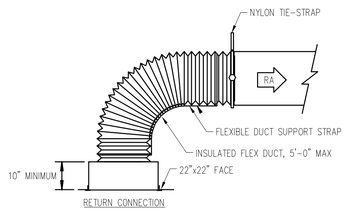
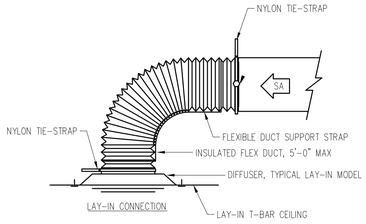
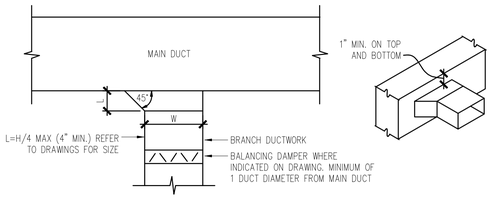


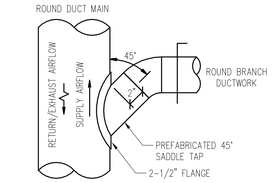
WALL LOUVER W/ PLENUM

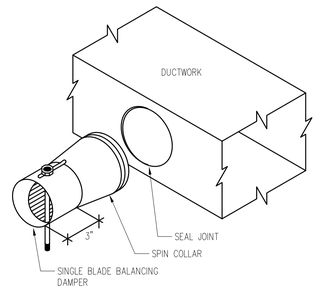
NTS | 4





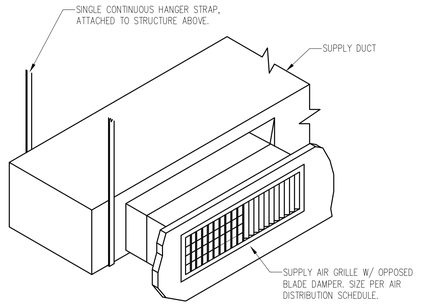






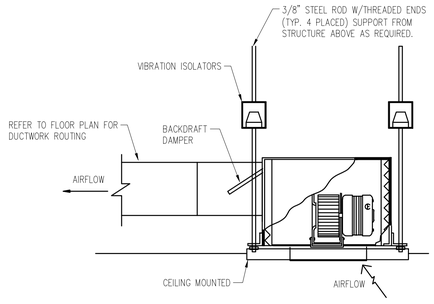
TAKEOFF W/ SIDEWALL GRILLE

NTS | 5



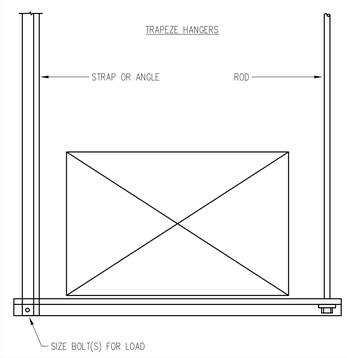
DIFFUSER/GRILLE CONNECTION

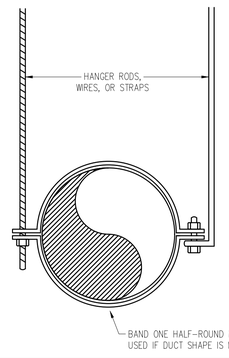
NTS | 3



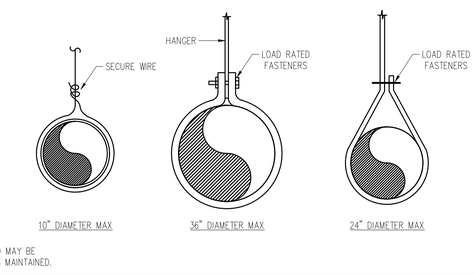
CEILING MOUNTED EXHAUST FAN

NTS | 6





NOTES:
1. HANGERS/SUPPORTS MUST NOT DEFORM DUCT SHAPE.
2. DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
3. DETAIL PROVIDED FOR REFERENCE. ALL DUCTWORK CONSTRUCTION AND HANGING SHALL CONFORM TO THE MOST RECENT VERSION OF SMACNA.



RIGID ROUND + RECTANGULAR DUCT SUPPORT (SMACNA)

NTS | 2

DUCTWORK CONNECTION DETAILS

NTS | 1

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FLORIDA, 33716

No.	Date	Revision

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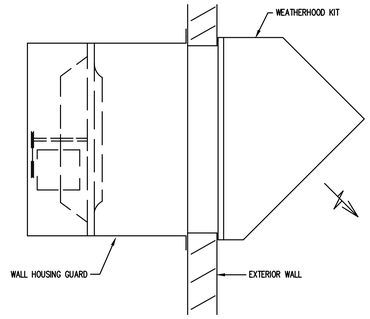
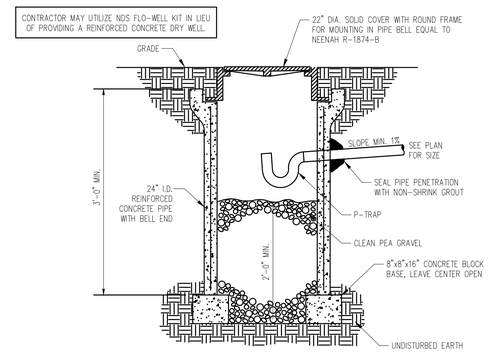
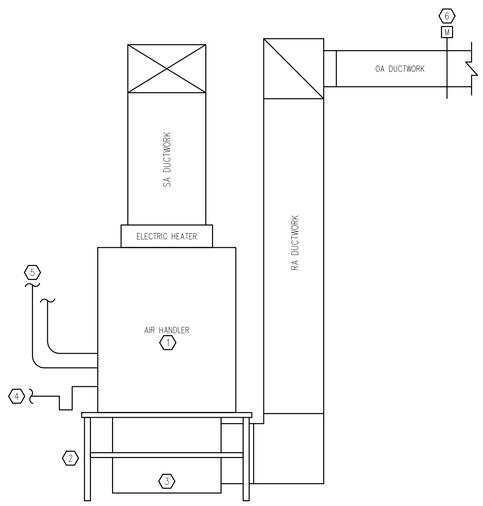


EXH. FAN MOUNTING DETAIL — NTS — 4

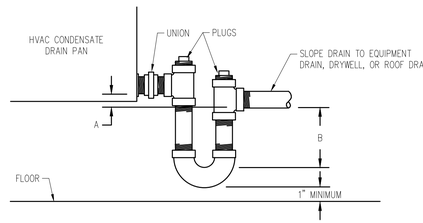


DRYWELL DETAIL — NTS — 1

1. VERTICAL AIR HANDLER. CONFIRM ALL REQUIRED MAINTENANCE AND ELECTRICAL CLEARANCE REQUIREMENTS WITH FINAL EQUIPMENT SUBMITTALS.
2. FACTORY SUPPLIED EQUIPMENT STAND.
3. PROVIDE FULL SIZE RETURN AIR PLENUM BOX OUT BOTTOM OF UNIT. CONFIRM EXACT SIZE REQUIREMENTS WITH FINAL EQUIPMENT SUBMITTALS.
4. CONDENSATE DRAIN. CONFIRM EXACT POINT OF CONNECTION TO UNIT WITH FINAL EQUIPMENT SUBMITTALS. REFER TO FLOOR PLANS FOR CONDENSATE DRAIN SIZE REQUIREMENTS AND CONDENSATE DRAIN DETAIL FOR ADDITIONAL INFORMATION.
5. REFRIGERANT PIPING (LIQUID AND SUCTION). CONFIRM EXACT POINT OF CONNECTION TO UNIT WITH FINAL EQUIPMENT SUBMITTALS. SIZE PER EQUIPMENT MANUFACTURERS SIZING REQUIREMENTS.
6. OUTDOOR AIR DUCTWORK AND MOTORIZED OUTDOOR AIR DAMPER. REFER TO FLOOR PLANS FOR EXACT SIZE AND LOCATION OF CONNECTION TO RETURN MAIN.



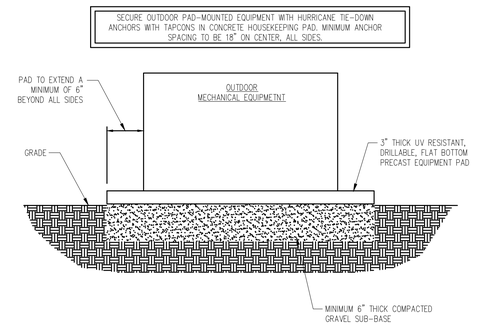
TYPICAL AIR HANDLER DETAIL — NTS — 5



COIL CONFIGURATION	DIMENSION "A"	DIMENSION "B"
BLOW THROUGH COIL	1"	FAN DISCHARGE STATIC PRESSURE + 1"
DRAW THROUGH COIL	FAN SUCTION STATIC PRESSURE + 1"	2-1/2"

NOTE: MINIMUM "A" OR "B" DIMENSION SHALL NOT BE LESS THAN 1".

CONDENSATE DRAIN DETAIL — NTS — 2



EQUIPMENT PAD DETAIL — NTS — 3

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HVAC DETAILS

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M302

SPLIT SYSTEM HEAT PUMP SCHEDULE

MARK	SYSTEM TYPE	AHU MODEL	L/W/H/WT	NOMINAL TONNAGE	COOLING CAPACITY					RATING CONDITIONS		HEAT PUMP CAPACITY			AHU TYPE	FAN				AUXILIARY HEATER		ELECTRICAL			CONDENSING UNIT	COMP	FAN	ELECTRICAL			DIMENSIONS	WT.
					SENS.	TOTAL	EER	IEER	SEER2	AMB	EAT-DB/WB	TOTAL	COP	HSPF2	CONFIG	CFM	EXT SP	DRIVE	HP	KW	STAGE	MCA	MOCP	VOLTS/ø	MODEL	AMPS	AMPS	MCA	BRKR	V/PH	H/W/D	LBS
AHU-1-1 / HP-1-1	HEAT PUMP	TWE120K3B	62/26/55/400	10	93,744	118,639	11.3	14.1	--	95	80/67	108,000	3.4	--	VERTICAL	3825	1.25	D	3	11.24	1	52	60	208/3	TWA120K3D	(2)14.6	4.3	38	50	208/3	46/38/51	450
AHU-1-2 / HP-1-2	HEAT PUMP	TWE090K3B	46/26/55/350	7.5	71,582	90,665	11.2	14.1	--	95	80/67	87,000	3.4	--	VERTICAL	2975	1.25	D	3	7.48	1	39	40	208/3	TWA090K3D	(2)13.8	2.3	35	45	208/3	40/38/51	445
AHU-2-1 / HP-2-1	HEAT PUMP	TWE090K3B	46/26/55/350	7.5	70,525	90,563	11.2	14.1	--	95	80/67	87,000	3.4	--	VERTICAL	2775	1.25	D	3	7.48	1	39	40	208/3	TWA090K3D	(2)13.8	2.3	35	45	208/3	40/38/51	445
AHU-2-2 / HP-2-2	HEAT PUMP	GAM5B0B36M321SB	22/22/56/150	3	29,078	36,372	--	--	14.3	95	80/67	30,000	--	7.5	VERTICAL	1200	0.7	D	1/2	3.6	1	27	30	208/1	4TWR4036N1000A	14.1	0.64	18	30	208/1	38/38/35	200
AHU-2-3 / HP-2-3	HEAT PUMP	TWE090K3B	46/26/55/350	7.5	70,525	86,825	11.2	14.1	--	95	80/67	87,000	3.4	--	VERTICAL	3000	1.25	D	3	7.48	1	39	40	208/3	TWA090K3D	(2)13.8	2.3	35	45	208/3	40/38/51	445

NOTE:
1. APPROVED ALTERNATE MANUFACTURERS: CARRIER / LENNOX / DAIKIN
2. STATIC PRESSURE IN INCHES OF WATER - EXTERNAL TO UNIT AND ALL ACCESSORIES.
3. PROVIDE 1" MERV 8 THROWAWAY FILTERS.
4. INTEGRAL FUSE DISCONNECT AND CONTACTORS
5. SINGLE POINT ELECTRICAL CONNECTION.
6. R454B REFRIGERANT.

FMC TABLE 403.3.1.1 - OUTSIDE AIR REQUIREMENTS

AIR HANDLER NUMBER - AHU-1-1

ROOM NAME	AREA (SQ. FT.)	SPACE REQUIREMENTS		OCCUPANCY REQUIREMENTS				TOTAL O/A CFM
		CFM/SQFT	CFM	PEOPLE/SQFT	PEOPLE	CFM/PERSON	CFM	
108 - JANITOR	69	0.12	9	--/1000	--	--	--	9
109 - HALLWAY	90	0.06	6	--/1000	--	--	--	6
110 - WOMEN	64	70E/T	70E	--/1000	--	--	--	70E
111 - MEN	58	70E/T	70E	--/1000	--	--	--	70E
112 - OPEN OFFICE	1685	0.06	101	5/1000	9	5	45	147
113 - OPEN OFFICE	139	0.06	8	5/1000	1	5	5	13
114 - OFFICE	101	0.06	6	5/1000	1	5	5	11
115 - OFFICE	101	0.06	6	5/1000	1	5	5	11
116 - OFFICE	101	0.06	6	5/1000	1	5	5	11
117 - OFFICE	121	0.06	7	5/1000	1	5	5	12
TOTAL								220/140E

AIR HANDLER NUMBER - AHU-1-2

ROOM NAME	AREA (SQ. FT.)	SPACE REQUIREMENTS		OCCUPANCY REQUIREMENTS				TOTAL O/A CFM
		CFM/SQFT	CFM	PEOPLE/SQFT	PEOPLE	CFM/PERSON	CFM	
100 - RECEPTION	804	0.06	49	10/1000	8	5	40	89
103 - OPEN OFFICE	409	0.06	25	5/1000	2	5	10	35
104 - OFFICE	171	0.06	11	5/1000	1	5	5	16
105 - OFFICE	159	0.06	10	5/1000	1	5	5	15
TOTAL								155

AIR HANDLER NUMBER - AHU-2-1

ROOM NAME	AREA (SQ. FT.)	SPACE REQUIREMENTS		OCCUPANCY REQUIREMENTS				TOTAL O/A CFM
		CFM/SQFT	CFM	PEOPLE/SQFT	PEOPLE	CFM/PERSON	CFM	
204 - CONFERENCE ROOM	716	0.06	43	50/1000	20*	5	100	143
205 - DISPLAY ROOM	254	0.06	16	50/1000	13	5	65	81
206 - HALLWAY	549	0.06	33	--/1000	--	--	--	33
209 - JANITOR	60	0.12	7	--/1000	--	--	--	7
214 - HUDDLE ROOM	101	0.06	6	50/1000	5	5	25	31
215 - CONFERENCE ROOM	221	0.06	13	50/1000	11	5	55	68
216 - PHONE BOOTH	48	0.06	3	5/1000	1	5	5	8
217 - STORAGE	47	0.12	6	--/1000	--	--	--	6
TOTAL								377

AIR HANDLER NUMBER - AHU-2-2

ROOM NAME	AREA (SQ. FT.)	SPACE REQUIREMENTS		OCCUPANCY REQUIREMENTS				TOTAL O/A CFM
		CFM/SQFT	CFM	PEOPLE/SQFT	PEOPLE	CFM/PERSON	CFM	
211 - MEN	72	70E/T	70E	--/1000	--	--	--	70E
212 - WOMEN	72	70E/T	70E	--/1000	--	--	--	70E
213 - TRAINING ROOM	592	0.06	36	50/1000	30	5	150	186
219 - MEN	52	70E/T	70E	--/1000	--	--	--	70E
220 - WOMEN	52	70E/T	70E	--/1000	--	--	--	70E
TOTAL								186/280E

AIR HANDLER NUMBER - AHU-2-3

ROOM NAME	AREA (SQ. FT.)	SPACE REQUIREMENTS		OCCUPANCY REQUIREMENTS				TOTAL O/A CFM
		CFM/SQFT	CFM	PEOPLE/SQFT	PEOPLE	CFM/PERSON	CFM	
218 - HALLWAY	94	0.06	6	--/1000	--	--	--	6
222 - BREAK ROOM	762	0.06	46	30/1000	23	5	115	161
223 - OPEN OFFICE	582	0.06	35	5/1000	3	5	15	50
224 - FOCUS ROOM	33	0.06	2	5/1000	1	5	5	7
225 - FOCUS ROOM	34	0.06	2	5/1000	1	5	5	7
TOTAL								231

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	NECK	FACE SIZE	DESCRIPTION
(A)	000-60 61-110 111-240 241-425 426-550	6Ø 8Ø 8Ø 10Ø 12Ø	12x12 24x24 24x24 24x24 24x24	SUPPLY DIFFUSER BASIS OF DESIGN: TITUS OMNI COLOR: WHITE MATERIAL: ALUMINUM MOUNTING: 24x24 LAY-IN OPPOSED BLADE DAMPERS: NO
(B)	000-90 91-110 111-220 221-350 351-530 531-730 731-1200 1201-1400	6Ø 6Ø 8Ø 10Ø 12Ø 14Ø 16x16 18x18	12x12 24x24 24x24 24x24 24x24 24x24 24x24 24x24	RETURN/EXHAUST GRILLE BASIS OF DESIGN: TITUS 50F COLOR: PAINT TO MATCH MATERIAL: ALUMINUM MOUNTING: 24x24 LAY-IN OPPOSED BLADE DAMPERS: NO
(C)	0-100 101-250	12x6 16x6	14.5x8.5 18.5x8.5	SUPPLY SIDEWALL GRILLE BASIS OF DESIGN: TITUS 271FL COLOR: MATCH WALL COLOR MATERIAL: ALUMINUM MOUNTING: SIDEWALL OPPOSED BLADE DAMPERS: NO
(D)	0-1200	20x20	22.5x22.5	RETURN SIDEWALL GRILLE BASIS OF DESIGN: TITUS 56FL COLOR: MATCH WALL COLOR MATERIAL: ALUMINUM MOUNTING: SIDEWALL OPPOSED BLADE DAMPERS: NO
(E)	000-60 61-110 111-240 241-420 421-550	6Ø 6Ø 8Ø 10Ø 12Ø	12x12 24x24 24x24 24x24 24x24	SUPPLY DIFFUSER BASIS OF DESIGN: TITUS OMNI COLOR: FIELD PAINT BLACK MATERIAL: ALUMINUM MOUNTING: 24x24 LAY-IN OPPOSED BLADE DAMPERS: NO

NOTES:
1. APPROVED ALTERNATE MANUFACTURERS: GREENHECK / NAILOR / PRICE

SYSTEM BALANCE

MARK	SUPPLY AIR CFM	RETURN AIR CFM	OUTDOOR AIR CFM
AHU-1-1	3900	3675	225
AHU-1-2	2975	2800	175
AHU-2-1	2850	2450	400
AHU-2-2	1200	1025	200
AHU-2-3	3000	2750	250

NOTES:
1. BALANCE AND ADJUST EACH AIR DISTRIBUTION SYSTEM SHOWN ON DRAWINGS.
2. PROVIDE NEW AIR FILTERS AT START OF TEST OF BALANCE AND AT FINAL PROJECT CLOSEOUT.

MECHANICAL DUCTWORK & INSULATION SCHEDULE

SERVICE	DUCT TYPE	INSULATION TYPE	INSULATION THICKNESS
ALL LOW PRESSURE SUPPLY AIR DUCT FROM AIR HANDLER OR PACKAGED UNIT	ROUND OR RECTANGULAR, AS INDICATED ON PLANS	FIBERGLASS WRAP	2" WRAP, R VALUE=6.0
ALL LOW PRESSURE RETURN AIR DUCT FROM AIR HANDLER OR PACKAGED UNIT	ROUND OR RECTANGULAR, AS INDICATED ON PLANS	FIBERGLASS WRAP	2" WRAP, R VALUE=6.0
ALL RUNOUTS TO SUPPLY DIFFUSERS AND RETURN GRILLES CONCEALED ABOVE CEILINGS	ROUND OR RECTANGULAR, AS INDICATED ON PLANS	FIBERGLASS WRAP	2" WRAP, R VALUE=6.0
ALL SUPPLY AIR DIFFUSERS (BACKSIDE, NOT EXPOSED TO SPACE)	N/A	FIBERGLASS WRAP	2" WRAP, R VALUE=6.0
RESTROOM / GENERAL EXHAUST DUCT	ROUND OR RECTANGULAR, AS INDICATED ON PLANS	N/A	N/A

GENERAL NOTE:
1. DUCT DIMENSIONS LISTED ON DRAWINGS SHALL REPRESENT THE AIRFLOW FREE AREAS AND DO NOT HAVE ALLOWANCES FOR INSULATION LINER, WHERE APPLICABLE, INSIDE THE DUCTS, OR DUAL WALL DIMENSIONS. DUCTS SHALL BE CONSTRUCTED TO INCLUDE INSULATION REQUIREMENTS AND MAINTAIN AIRFLOW DIMENSIONS INDICATED ON PLANS.
2. FLEX DUCTWORK IS ALLOWED WHERE SHOWN ON PLAN AND SHALL NOT EXCEED 12'-0" IN LENGTH. FLEXIBLE DUCT SHALL MEET UL 181 CLASS 1. FLEX DUCTWORK UTILIZED ON THE RETURN SHALL HAVE A MINIMUM PRESSURE RATING OF -1.0 W.C.

EXHAUST FAN SCHEDULE

MARK	MFGR.	MODEL	TYPE	WATTS	HP	RPM	CFM	EXT SP	VOLT/Ø	COMMENTS
EF-1-1	GREENHECK	SBE-1H24	WALL MOUNTED	--	1/2	806	2000	0.25	120/1	INTERLOCK WITH TIMECLOCK
EF-1-2	GREENHECK	SP-A70	CEILING	14	--	850	50	0.25	120/1	INTERLOCK WITH TIMECLOCK
EF-1-3	GREENHECK	SP-B90	CEILING	21	--	700	70	0.25	120/1	INTERLOCK WITH LIGHT SWITCH
EF-1-4	GREENHECK	SP-B90	CEILING	21	--	700	70	0.25	120/1	INTERLOCK WITH LIGHT SWITCH
EF-2-1	GREENHECK	SP-A70	CEILING	14	--	850	50	0.25	120/1	INTERLOCK WITH TIMECLOCK
EF-2-2	GREENHECK	CSP-A125	CEILING	54	--	980	100	0.25	120/1	INTERLOCK WITH LIGHT SWITCH
EF-2-3	GREENHECK	CSP-A125	CEILING	54	--	980	100	0.25	120/1	INTERLOCK WITH LIGHT SWITCH
EF-2-4	GREENHECK	SP-B90	CEILING	21	--	700	70	0.25	120/1	INTERLOCK WITH LIGHT SWITCH
EF-2-5	GREENHECK	SP-B90	CEILING	21	--	700	70	0.25	120/1	INTERLOCK WITH LIGHT SWITCH

NOTES:
1. MODEL NUMBERS BASED ON GREENHECK. COOK IS AN ACCEPTABLE FOR ALL FANS. BROAN IS AN ACCEPTABLE ALTERNATIVE FOR CEILING MOUNTED RESTROOM EXHAUST FANS.
2. PROVIDE BACKDRAFT DAMPER.
3. PROVIDE INTERNAL DISCONNECT.
4. PROVIDE WALL HOUSING, 45 DEGREE WEATHERHOOD, AND BACKDRAFT DAMPER FOR EF-1-1

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	AREA SERVED	FINISH	WxH(IN.)	MIN. FREE AREA (SF)	CFM	MAX. FACE VELOCITY	NOTES
L-1	GREENHECK	EHV-550	WAREHOUSE	CLEAR ANODIZED	36x36	4.0	2000	500	1,2,4
L-2	GREENHECK	EHV-550	AHU-1-1	CLEAR ANODIZED	18x12	0.45	225	500	1,2,3,4
L-3	GREENHECK	EHV-550	AHU-1-2	CLEAR ANODIZED	18x12	0.35	175	500	1,2,3,4
L-4	GREENHECK	EHV-550	AHU-2-1	CLEAR ANODIZED	24x18	0.8	400	500	1,2,3,4
L-5	GREENHECK	EHV-550	AHU-2-2 / 2-3	CLEAR ANODIZED	24x18	0.85	425	500	1,2,3,4

NOTES:
1. APPROVED ALTERNATE MANUFACTURERS: RUSKIN / GREENHECK / NAILOR
2. INSECT SCREEN
3. COORDINATE FRAME TYPE WITH WALL CONSTRUCTION
4. COUNTERBALANCED BACKDRAFT DAMPER
5. AMCA 540 & 550 RATED

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HVAC SPECIFICATIONS

A. It is the intent of these specifications to define the work and materials typically installed by a Mechanical Contractor. However, it is not intended to define a subcontract between the Mechanical Contractor and the General Contractor. The General Contractor is responsible for the entire project and any questions regarding scope of work shall be directed to the General Contractor.
B. Work shall include all labor, materials, fixtures, equipment, tools and service necessary for installation, testing and adjusting of all mechanical systems shall be furnished and installed in compliance with the Drawings, Specifications, and any Addenda thereto.
C. Drawings and Specifications shall be understood to cover, according to their intent and meaning, complete mechanical systems. Work shown and not specified, or work specified and not shown shall be performed as though mentioned in both.
D. Minor items and accessories reasonably inferred as necessary for the complete and proper operation of any system shall be provided by subcontractor for such system whether or not they are specifically called for.
E. Before submitting a bid, the Mechanical Contractor is to coordinate with the General Contractor to ascertain, in detail, the division of work, and the extent of performance other subs and the General Contractor.
F. All work shall be performed or installed in strict accordance with Florida Building Code 2023 – Mechanical, NFPA 101, NFPA 90A and local ordinances.
G. Fees for permits, inspections, patent use, royalties, etc. shall be paid by the subcontractor.
H. All systems shall be tested for proper operation, rotation air supply, water supply, pressures, flows, balance, vibration, and appropriate interlocks as required by these specifications or manufacturers' recommendations.
I. All work shall be installed in accordance with the appropriate codes and satisfy the local inspector having jurisdiction.
J. Upon completion of each part of the mechanical system, the subcontractor shall demonstrate to the Engineer that each item on that system is installed with proper covers, safeties, controls, etc., and that all are in proper working order.
K. A set of "red-lined" as-built mechanical drawings shall be carefully maintained at the job site. Actual conditions are to be put on the drawings in red on a daily basis so the drawings will continuously show locations and routings of piping, ducts, grilles, equipment, valves, and any equipment specified on the drawings or in these specifications.
L. Equipment and materials shall be new and meet or exceed specification / schedule requirements.
1. All products shall be current model for which replacement parts are available.
M. Acceptable manufacturers are listed, additional manufacturers may request approval for their products up to 10 days in advance of bid. Engineer may require supplemental information prior to accepting or rejecting the alternate.
N. All work shall be performed in compliance with OSHA regulations.
O. Shop drawings and product data shall be submitted on all equipment, fixtures, etc
1. Submittals shall include all equipment to be installed by the subcontractor
2. Each package must have the General Contractors review stamp prior to submittal.
3. The Engineer will review one submittal and one resubmittal; subsequent resubmittals may require a review charge to be paid by subcontractor.
4. Shop drawings shall be labeled in the same designation as the drawings
P. Job conditions shall be determined prior to bidding in the following manner:
1. Site visit to determine:
a. How and where materials will be delivered and stored.
b. Special problems encountered during construction.
2. Examine all Contract Drawings and Specifications to determine:
a. Type of construction to be used.
b. How construction or work will affect the work of this Section.
c. Nature and extent of work of other trades.
Q. Failure to determine the nature of construction will not be considered as a basis for granting additional compensation.
R. Installation:
1. Contract Drawings show the arrangements and sizes of principal apparatus and devices to be provided under this Contract and connection thereto. These shall be followed as closely as actual building construction will permit.
2. Dimensions of work as indicated on Plans are not guaranteed to be as-built d dimensions.
3. No measurements shall be scaled from Drawings and used as definite dimensions for layout or fitting work in place.
4. Layout of equipment, as shown on the plans, shall be checked and exact location determined by dimension.
5. Consult the Drawings for all dimensions, locations of partitions, sizes of structural member, foundations, etc.
6. Do not make final layouts until shop or equipment drawings are approved and job conditions verified.
7. Mechanical reference symbols are given on the mechanical legend on the drawings.
S. Rough-in:
1. Work included:
a. Subcontractor shall rough-in for all equipment, fixtures, etc., in building whether or not such equipment is furnished by this Contractor or by Owner.
2. Method:
a. Determine in advance the location and size of all openings and chases necessary for proper installation of all work and have openings and chases provided during construction.
b. Install all inserts for hangers and supports of mechanical work and equipment work as general construction progresses.
c. Rough-in openings in masonry or stud walls shall be cut, not broken or chiseled.
d. Sleeves shall be required at all points where piping passes through concrete walls, slabs or masonry walls; sleeves installed below grade or where subject to high water conditions shall be installed watertight.
T. Coordination:
1. Work shall be coordinated between all Contractors, Subcontractors, Installers, Suppliers, Trades, etc., to:
a. Insure a neatly fitted installation.
b. Determine the nature and extent of the work of others.
c. Eliminate interferences.
d. Maintain maximum headroom and clearances.
2. Any interference which develops or is foreseen and cannot be resolved by the affected trades, etc. shall be handled as follows:
a. Cease installation of that portion of the work which is in conflict as no additional compensation will be allowed for any relocation, etc.
b. Continue work only on other portions of the work which are not in conflict.
c. Notify the Architect immediately.
d. Architect's decision shall be final as to any relocation, rerouting, removal, etc.
e. No additional compensation will be allowed for removal, relocation, repairs or changes required by interferences.
U. Clear away all debris, surplus materials, etc., resulting from work on operations, leaving job and equipment in clean first-class condition.
V. Clean all rotating equipment, ducts, piping, etc., and leave them in a ready-to-use condition.
W. Where factory finish is provided on equipment, all marred or damaged surfaces shall be touched-up or refinished hereunder as approved.
X. Thoroughly clean all items of equipment, leaving them in first-class condition.
Y. Wipe clean or wash if necessary air surfaces of all coils, fan housings, fan wheels, fan motors, air unit plenums, and all air filters.
Z. All pumps, motors, fans and other rotating equipment shall be stored at Site with openings, bearing, etc., covered to exclude dust and moisture; all stockpiled material and equipment shall be placed on dunnage, and protected from weather, from entry of foreign materials.

BALANCING OF AIR SYSTEMS

A. Balance and adjust each air distribution system shown on the Drawings.
B. Work shall be performed by an independent 3rd party test and balance company that is certified by the National Environmental Balncing Bureau (NEBB), the Associated Air Balance Council (AABC), or the Testing, Adjusting and Balancing Bureau (TABB).
C. Fuse sizes and thermal overload heaters shall be checked against each motor nameplate.
D. The amperage shall be read at each electrical motor to determine the load imposed on it.
E. Adjustment and Balance:
1. Adjust variable type pulleys, volume dampers, control dampers, etc. to provide correct volumes to main trunk lines.
2. Check and adjust outside air quantities as required.
3. Adjust air extractors and manual balancing dampers to supply correct air volume to each main branch duct from main trunk lines.
4. Adjust manual balancing dampers to supply correct volume to each individual branch duct.
5. Use terminal registers only for minimal adjustment of air flows, i.e. less than 5% of air volume.
6. Adjust grilles and diffusers for proper air flow patterns.
7. Air conditioning units shall be placed in operation and both wet and dry bulb temperature taken at one-hour intervals to determine the amount of cooling being accomplished and to indicate adjustments needed.
8. After spaces have been brought down to design temperatures and equipment is functioning properly, air shall be rebalanced if necessary by means of calibrated thermometers placed in each room and in open spaces,not over 20' apart. There shall be no deviation in temperature of more than 3 F throughout the space cooled.
9. A thorough check shall be made, with an anemometer, of air motion in the occupied space. Any air motion exceeding 50 fpm shall be remedied.

HVAC SYSTEMS

A. Split System or packaged heating and cooling units with reverse cycle and heat strip where specified.
B. BLOWER COIL SECTION
1. Airflow as indicated on drawings.
2. Fan shall be direct – drive, forward-curved, double inlet, statically and dynamically balanced.
3. Fan motor shall be resiliently mounted and shall be easily removable for service.
4. Fan motor shall be permanent –split–capacitor type with integal overload protection, high – efficency, Florida Energy Code Minimum.
5. Cooling coil shall have aluminum fins machanically bonded to copper tubing. Coil shall have factory installed refrigerant metering devices.
C. CONDENSING SECTION
1. Outdoor unit shall be designed for use with Refrigerant 454B and contain sufficient charges (R454B) for complete system. Brass service valves with refrigerant line fittings and service ports shall be located on exterior of unit.
2. Outdoor coil shall be constructed with aluminum fins mechanically bonded to non–ferrous tubing. Factory installed coil refrigerant metering device shall be mounted on unit liquid service valve. Metering device internal components shall be removable for cleaning or replacement.
3. Outdoor unit fan shall be propeller type, direct driven, and arranged for vertical air discharge. Fan motor shall be factory lubricated, inherently protected and resiliently mounted.
4. Compressor shall be of the welded–hermetic type with internal vibration isolation and shall be covered with a shield to muffle operating sound. Compressor motor shall have both thermal and current –sensitive overload device. Compressor shall be equipped with a crank–case heater and have internal high–pressure protection.
5. Controls shall be factory wired and located in a readily accessible location. Controls and protective devices shall include a liquid line low pressure switch, suction line accumulator and pressure relief device. Control wiring terminal board shall be designed to match indoor unit terminal board and accessory thermostat terminals for standardized point–to–point connection.
D. Refer to Mechanical Equipment Schedule for Model Numbers.

EXHAUST FANS

A. All exhaust fans mounted in the ceiling inside the building and ducted to the outside.
B. Meet the specification for air delivery at static pressure as specified on the Equipment schedule.
C. Meet the noise criteria (if specified on Schedule).
D. Be of the manufacture and model number specified in the Equipment Schedule or equal.
E. Shall be UL listed.
F. Acceptable Manufacturers
1. Breidert
2. Cornes
3. Greenheck
G. General
1. Acoustically insulated steel housing
2. Baked enamel finish on housing
3. Adjustable mounting brackets
4. Automatic backdraft damper at the discharge duct
5. Lifetime lubricated motor
6. Terminal box on housing with cord, plug and receptacle inside the housing.
7. Fan motor and wheel shall be removable without removing entire fan housing.

DUCTWORK

A. RECTANGULAR SUPPLY DUCTWORK SHALL INSULATED LOW PRESSURE SHEET METAL
B. GENERAL EXHAUST DUCTWORK SHALL BE GALVANIZED SHEETMETAL WITH NO INSULATION.
C. RETURN DUCTWORK SHALL BE INSULATED LOW PRESSURE GALVANIZED SHEET METAL.
D. FLEXIBLE DUCTWORK IS ALLOWED ONLY WHERE SHOWN AND SHALL NOT EXCEED 12' FEET IN LENGTH. FLEXIBLE DUCT SHALL MEET UL 181 CLASS 1.
E. FLEXIBLE DUCTWORK WHERE INSTALLED SHALL BE ATTACHED USING SPIN–IN TAKE–OFFS WITH LOCKING QUADRANT DAMPERS.
F. LOW – PRESSURE SHEETMETAL DUCTWORK
1. Except as otherwise specified or detailed on the drawings, all ductwork shall be constructed in accordance with the Sheet Metal and Air Conditioning Contractor's National Association (SMACNA)
2. Duct systems shall be complete, including all duct fittings, turning vanes, transverse reinforcing hangers, suppoorts, etc., as detailed on the Drawings or in the standards.
3. Provide and install balancing dampers or adjustable splitters at all branch ducts, and where required for balancing the system.
4. Each damper shall be adjustable with an approved quadrant or regulator. Dampers to be opposed blade type for ducts over 12" in any dimension, for ducts 12" single blade is acceptable except for outdoor air intakes which shall be low–leakage opposed blade.
5. Dimensions shown are net inside dimensions (including insulation).
6. Galvanized sheetmetal duct shall conform to the following thicknesses

a. Largest dimension	Gauge
0–30 inches	24
30–54 inches	22
55–84 inches	20
over 84 inches	18

7. All joints shall be sealed with tape and coated with mastic.
8. Ductwork shall be seal class – 2" w.c. unless otherwise noted.
G. Plenums shall be constructed and tested in accordance with SMACNA STANDARDS.
H. FLEXIBLE CONNECTIONS
1. Provide between duct system and air moving equipment
2. Connection shall be made with not less than 4" wide flexible collar using "Ventglas" 30–ounce neoprene coated glass fabric.
I. Where construction methods for various items are not indicated on the Drawings or specified herein, all such work shall be fabricated and installed in strict accordance with the recommended methods, metal gauges, hanging procedures, access door and accessory installation, etc., as outlined, the latest edition of SMACNA'S Duct Manual and Sheet Metal Construction for Ventilating and Air Conditioning System.
J. Leakage:
1. Contractor shall make necessary repair and shall make duct system ready for a leakage test.
2. Test shall be performed by Test and Balance Contractor.
3. Leakage shall not exceed 1% leakage for high pressure duct and 5% for low pressure duct construction.

DUCT INSULATION

A. Acceptable Manufacturers
1. Johns–Manville
2. Certainteed
3. Knauf
B. Duct Wrap:
1. 2" inch thick fiberglass – R6 INSTALLED
2. Flamespread 25 per ASTM E–84
3. Smoke developed 50 per ASTM E–84
4. Factory applied vapor barrier – heavy duty 4 mil vinyl film, class 1, meeting NFPA 90A and 90B, UL rated
5. Product:
a. Johns–Manville "Microlite"
C. Accessories:
1. Insulation tape, mastic, adhesives, etc., shall have the same flamespread and smoke rating as the insulation to which they are applied and meet manufacturer's recommendations.
D. Ductwrap
1. Overlap seams of ductwrap, secure with 4" wide open weave glass fabric and two coats of vapor retarder mastic.
2. Underside of ductwork greater than 24" wide shall also be secured with mechanical fasteners with tape.
3. Pressure tape is not acceptable.
E. Provide rigid insulation on supply and return ducts inside mechanical rooms or on any exposed ductwork.

DUCT HANGERS AND SUPPORTS

A. All ductwork for air supply, return, fresh air or exhaust shall be supported by duct hangers, clamps, clips or supports.
B. Acceptable Manufacturers
Duct hangers may be a manufactured item or field fabricated as required.
C. Galvanized steel straps
1. Minimum 16 gauge and one inch wide
D. Trapeze hangers
1. Ducts 20 inches to 40 inches largest dimension.
a. Minimum 1 inch x 1 inch x 1/4 inch steel angles.
b. Minimum 1/4 inch threaded rod
2. Ducts above 40 inches largest dimension and plenums
a. Minimum 1–1/2 inch x 1–1/2 inch x 1/4 inch steel angles.
b. Minimum 3/8 inch threaded rod.
E. Supports
1. All ductwork shall be supported from structural building members, i.e. block, beams,columns, purlins, joists, etc.
2. Ductwork shall not be supported from ceiling tile or grids, conduit, mechanical equipment, piping or non–structural steel.
3. Ductwork hangers shall be attached to building steel by bolts, screws, or clamps.
F. Hanger Bands
1. Horizontal concealed ductwork up to 20 inches largest dimension shall be supported by one (1) inch x 16 gauge galvanized steel straps at a maximum spacing of 10 ft. and at each elbow or branch takeoff.
2. Bands and spacing shall be at a maximum spacing of 10 feet on horizontal runs and at each elbow or branch takeoff.
a. No nails shall be driven through any ductwork and into floor joists, trusses, etc.
3. Vertical ductwork, all sizes, shall be supported by bands bolted or screwed to walls, studs, etc.
4. Hanger bands shall be bent over one (1) inch from end and turned under corners of rectangular duct.
5. Duct hanger bands shall be fastened with sheet metal screws at six (6) inch intervals up sides and into bottom.
a. Sheet metal screws shall be 3/4 inch so as not to penetrate duct liner completely.
G. Trapeze Hangers
1. Horizontal ductwork larger than 20 inches largest dimension and all exposed ductwork shall be supported by trapeze type hangers.
2. Trapeze hangers shall be at a maximum spacing of 10 feet and at each elbow or branch takeoff.
3. Hanger rods shall be secured to bottom bracing angles with nuts and locknuts.

DUCT ACCESSORIES

A. Air distribution system shall be furnished complete with duct accessories necessary to allow complete air balancing and adjusting of flow and volume.
B. All square duct corners and "T" connections shall be fitted with turning vanes.
C. All branch duct takeoffs shall be fitted with nonadjustable air turning vanes AND manual volume control dampers, OR adjustable volume extractors which are adjustable from outside the duct.
D. Each grille and diffuser shall be fitted with a manual volume control register at the face of the grille and adjustable from the face of the grille without requiring removal of the grille.
E. Acceptable Manufacturers
1. Barber Colman
2. Titus
3. Price
4. MetalAire
F. Air turning vanes:
1. Multiple radius vanes
2. Steel construction
3. Electrocoated white finish
4. Maximum pressure loss = 20% of velocity head
5. Model number – equal to Barber Colman Models AOOA and AOOF
G. Volume Extractors:
1. Gang operated parallel blade
2. Fully adjustable from wide open to full closed
3. Supply with supporting foot as required for branch takeoffs not in the same plane as trunk lines.

VOLUME DAMPERS

A. All return air and fresh air dampers shall be parallel blade pivot dampers with motorized control where noted.
B. All balancing dampers shall have manual control dampers with positive position locking.
C. Acceptable Manufacturers
1. Prefco Manufacturing Co.
2. Titus
3. Ruskin
D. Parallel Blade Pivot Dampers:
1. Low leakage non–degradable
2. Friction free metal to metal seals incorporated into the blade and frame shapes
3. Galvanized steel frame, 16 gauge
4. Galvanized steel blades, 22 gauge with double–wrapped center and edge forming
5. Maximum leakage – 11 CFM per sq. ft. @ 1 inch S.P.
6. The static pressure loss shall not exceed 0.7" W.G. @ 2000 FPM and 50% modulation
7. Model Number
a. Equal to Prefco Model 5150
8. Classified 1–1/2 hour rating, UL Listed.
9. Fire dampers shall have thermal link.
10. Model:
a. Dampers shall be equal to a Prefco "Low Profile B" or approved equal.
D. Dampers – mounted horizontally in ceiling:
1. UL Listed ceiling damper
2. Round or square as required
3. 2 hour rated
4. Single or dual blade depending on duct size
5. Model Number
a. Prefco Model 5650, 5600, or 5660
1. Fusible link rated at 165 Degrees F. release temperature.

DUCT ACCESS PANELS AND TEST HOLES

A. Provide an access panel at each return air and/or fresh air damper which will allow for inspection and cleaning of dampers.
1. Where return and fresh air dampers are located adjacent, one access door is sufficient, providing each damper is accessible.
B. Provide an access panel at each fire damper for resetting and maintenance of each fire and smoke damper.
C. Provide test holes for measurement of air flow, on each branch duct and main trunk line or plenum.
D. Acceptable Manufacturers
1. Penn Ventilator Co.
2. Ruskin
E. Access Doors:
1. Insulated hinged duct access door
2. Standard gauge galvanized steel
3. Continuous piano hinge
4. Gasketed at door frame surface and at frame to duct surface
5. Positive acting cam latch handle
6. Doors shall be of sufficient size to allow access to both sides of dampers
7. If duct width is greater than 36 inches, provide access doors on each side of duct for access to entire dampers.
8. Exception:
a. Where access door must be installed in such a position that hinged opening is not possible, provide door that is completely removable.
b. Removable door shall have cam–locks on both sides
c. Where noted on drawings fire damper may be accessed through return air grille.
9. Model Numbers:
a. Hinged doors shall be equal to Penn Ventilator Model DAD
b. Non–hinged removable door shall be equal to Penn Ventilator Model DAD–RP.
F. Test Holes
1. Provide a capped access hole in each trunk line or branch duct for insertion of air–flow line or branch duct pitot for flow measurement.

GRILLES & DIFFUSERS

A. Aluminum fixed blade with air pattern and neck sizes as shown on grille and diffuser schedule.
1. Provide all supply diffusers with opposed blade dampers.

DISPOSABLE FILTERS

A. Provide 1" pleated with perforated metal back, unless otherwise noted.
B. MERV–8
C. Subcontractor shall provide filters during construction and change as needed throughout the duration of construction.
D. Subcontractor shall provide (1) set of spare filters for each piece of equipment.

CONTROL SYSTEM

PART 1 – GENERAL

DESCRIPTION

A. GENERAL
1. Furnish and install all electrical controls and components for all mechanical systems as listed below.
B. SPLIT SYSTEM / PACKAGED ROOFTOP
1. Provide Heat – Cool – Off. Fan–On–Auto, thermostat, electronic, fully programmable with 4 functions per day, seven day/week programmable, t'stat shall have auxiliary contacts for O.A damper control.
2. Thermostat shall have wireless capability.

PART 2 – SEQUENCE OF OPERATION

A. SPLIT SYSTEM / PACKAGED ROOFTOP
1. Occupied Mode–
a. Air Handler shall run continuously
b. Compressor shall cycle to maintain space temperature (heating or cooling)
c. Outside air damper shall open to minimum set point cfm as noted on dwgs.
2. Unoccupied Mode–
a. Air Handler shall cycle with conpressor
b. Compressor shall cycle to maintain space temperature (heating or cooling)

FIRE STATS

A. Provide fire stats on each unit.
1. Firestat shall shut down all unit components including fans, compressors.

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PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY KYLE J. DAVIS, PE ON THE INDICATED DATE USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC DOCUMENTS.

BALDWIN ROOFING CO.

BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST. PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE:	05/30/2025
DESIGNED BY:	KJD
DRAWN BY:	KJD
CHECKED BY:	KJD

DRAWING TITLE:
HVAC SPECIFICATIONS

SHEET NO:
M501

ELECTRICAL SPECIFICATIONS GENERAL

A. All work shall be performed or installed in strict accordance with the following:
   1. NFPA 70 National Electrical Code (2020 Edition)
   2. Florida Building Code (2023, 8th Edition)
   3. Florida Fire Prevention Code (2023, 8th Edition) - (which includes NFPA 1 and NFPA 101 as amended specifically for Florida)
   4. NFPA 72 National Fire Alarm and Signaling Code (2022 Edition)
   5. NFPA 110 Emergency and Standby Power Systems (2019)
   6. All other applicable rules, regulations, and codes of local, state, and federal governments having lawful jurisdiction.

B. Furnish all labor, materials, fixtures, equipment, tools and service necessary for installation, testing, and adjusting of all electrical system. Electrical systems shall be furnished and installed in compliance with the Drawings, Specifications, and any Addenda thereto.

C. All equipment and materials provided shall meet or exceed specification requirements, be new and unused (unless furnished by the owner), listed under an UL category, and shall be a product of a manufacturer regularly engaged in producing such equipment and materials for at least five years.

D. Drawings and Specification shall be understood to cover, according to their intent and meaning, complete electrical systems. Work shown on the drawings yet not specified, and work specified yet not shown on the drawings shall be performed as though mentioned in both.

E. Minor items and accessories reasonably inferred as necessary for the complete and proper operation of any system shall be provided by responsible contractor or subcontractor for such system whether or not they are specifically called for on the plans.

F. The E.C. shall include in his bid the cost of furnishing, installing, maintaining, and removing all material and equipment required to provide temporary lights and power to perform the work of all trades during construction and until work is completed. Adequate lighting and receptacle outlets for operation of hand tools shall be provided throughout the project - including shanties, trailers, field offices, and temporary toilet enclosures - and shall be extended as construction progresses.

G. The E.C. shall coordinate with the electric power company to ascertain, in detail, the division of work, and the extent of performance by the Power Company.

H. Each panelboard, switchboard, disconnect, pullbox larger than 4"x4", transformer, contactor, separately enclosed breaker, separately enclosed starter, transfer switch, and time clock shall be labeled with the same designation shown on the drawings.

I. Labels shall be laminated plastic engraved, with letter size no less than 3/8 inch in height. Exterior labels shall be UV resistant and weatherproof.

J. Furnish all equipment and personnel and conduct all tests required to secure approval of the installation.

K. Safety Tests
   1. All systems shall test free from short circuits and grounds, shall be free from mechanical and electrical defects, and shall show an insulation resistance between phase conductors and ground of not less than that specified by the cable manufacturer.
   2. All systems shall show proper neutral connections.
   3. Interlock mechanisms shall be demonstrated to perform as intended.

M. Upon completion of each part of the electrical system, the E.C. shall demonstrate to the Owner that each item on that system is installed with proper covers, safeties, controls, etc., and that all are in proper working order.

N. A set of "red-lined" as-built drawings shall be carefully maintained at the job site by the E.C. Markings shall be made legibly on the drawings in red on a daily basis so the drawings will continuously show deviations and other relevant information required by the Owner, Architect, and Engineer. Please note: if Engineer is contracted to draft as-built markups, the resulting documents will not be signed & sealed by the Engineer. Certification of any as-built documents or constructed items, if required, would fall under the responsibility of the E.C.

O. Shop drawings and product data shall be submitted on all equipment, fixtures, etc. Shop drawings shall be labeled in the same designation as individual piece of equipment for which they are being submitted; the proper designation shall be the designation used on the various equipment schedules and or in other Sections of this Specification, i.e. Fixture A, Panel B, MDP, etc. Each submittal package shall be combined into a single PDF file and emailed (or otherwise electronically transmitted) to Engineer.

P. Job condition shall be determined prior to bidding in the following manner:
   1. Site visit to determine:
      a. Existing conditions
      b. How and where materials will be delivered and stored
      c. Special problems encountered during construction
   2. Examine all Contract Drawings and Specifications to determine:
      a. Type of construction to be used
      b. Nature and extent of work of other trades

S. General
   1. Contract Drawings show the intended arrangements and sizes of principal apparatus and devices to be provided under this Contract. Drawings shall be followed as closely as actual building construction will permit.
   2. Dimensions of work as indicated on Plans are not guaranteed to be as-built dimensions.
   3. Measurements shall not be scaled from Drawings and used as definite dimensions for layout or fitting of work in place.
   4. Layout of equipment, as shown on the plan, shall be checked and exact location determined by dimension of equipment approved by the Architect.
   5. Consult the Drawings for all dimensions, locations of partitions, sizes of structural members, foundations etc.
   6. Do not make final layouts until shop or equipment drawings are approved and job conditions verified.

T. Coordination:
   1. Work shall be coordinated between all Contractors, Subcontractors, Installers, Suppliers, Trades, etc. to:
      a. Insure a neatly fitted installation
      b. Eliminate interferences
      c. Maintain maximum headroom and clearances
   2. Any interference which develops or is foreseen and cannot be resolved by the affected trades, shall be handled as follows:
      a. Cease installation of the portion of the work which is in conflict, and Continue work on items which are not in conflict.
      b. Notify the Architect immediately.
      c. Architect's decision shall be final as to any relocation, rerouting, removal, or change.
      d. No additional compensation will be allowed for removal, relocation, repairs or changes required by interferences.

U. Clear away all debris, surplus materials, etc. resulting from work. Maintain job and equipment in clean, first-class condition.

V. Clean all panel boards, switches, boxes, etc., and leave them in a ready-to-use condition.

W. All panelboard and junction box covers shall be secured with proper screws or bolts.

X. Where factory finish is provided on equipment, each marred or damaged surface shall be touched-up or refinished in accordance with manufacturer recommendations.

Y. In addition to provisions and stipulation set forth in other Sections of these Specifications, provide various types of protection as follows:
   1. Protect finished floors from chips and cutting oil by use of metal chip receiving pan and oil-proof floor cover.
   2. Protect surfaces and items from over-spray and drops due to painting and finishing work associated with electrical work.
   3. Protect grills, diffusers, parts, openings, and vents as necessary to prevent intrusion of smoke, dust, and debris into devices, equipment, and systems. Ensure protection of heat-generating equipment does not cause equipment to overheat.
   4. Stored equipment shall be covered to exclude dust and moisture, shall be protected from weather, shall be protected from entry of foreign materials, and shall be protected from theft and vandalism.

Z. Concrete housekeeping pad or pads shall be provided for floor-mounted equipment, U.N.O. Concrete shall be cast no less than 4" thick, shall be rated no less than 3000 PSI, and shall be cast with 1/2" chamfered top perimeter edges. Housekeeping pad vertical surfaces, chamfers, and a stripe 6" wide around the top perimeter of the pad shall be painted safety yellow.

AA. E.C. shall be responsible for photographing the following items, or ensuring that the items are safely observable - with covers removed or easily removable - during substantial inspection: incoming feeder terminations at main disconnecting means, main bonding jumper, grounding electrode connection(s) at each system (main and separately derived), transfer switch terminations, transformer terminations, system bonding jumper(s) as applicable, isolated neutral at downstream equipment, panels, switchboards, switchgear, motor control centers, starters, disconnects, and pull-boxes.

AB. Each penetration of a rated assembly by a pipe, tube, wire, conduit, or cable tray shall be protected by a UL listed fire-stop system (tested per ANSI/UL 1479 or ASTM E814) with a rating no less than the rating of the assembly, and in no case less than 1-hour.

AC. Self-illuminated exit signs, emergency lighting fixtures, and emergency lighting drivers shall be connected to unswitched conductors. Such conductors shall be connected directly to the branch circuit breaker (bypassing all control devices, switches, contactors, timeclocks, photocells, etc.). E.C. shall provide additional conductors to switched lighting circuit conductor as necessary to meet this requirement.

EXCAVATION AND BACKFILL

A. E.C. shall perform all excavation and backfilling related to the electrical scope of work.

B. E.C. shall be responsible for contacting the appropriate "CALL BEFORE YOU DIG" authority prior to commencing excavation activities.

C. E.C. shall be responsible for coordinating with power and telecom utilities regarding underground conduit installation.

ROUGH-IN

A. E.C. shall rough-in for all equipment, fixtures, etc., in building whether or not such equipment is furnished by this Contractor or other divisions of Specifications or by Owner.

B. Determine in advance the location and size of all openings and chases necessary for proper installation of all work and have openings and chases provided during construction.

C. Install all inserts for hangers and supports of electrical work as general construction progresses.

D. Rough-in openings in masonry, brick, or stud walls shall be cut, not broken or chiseled.

E. Openings shall not be larger than the coverplate or box which will fit over it.

F. A sleeves shall be required at each location where exposed conduit is to pass through a concrete wall, concrete floor slab, or masonry wall. Sleeves installed below grade or where subject to high water conditions shall be installed water tight.

BASIC MATERIALS & METHODS CONDUIT

A. Rigid metal conduit (RMC) shall be steel, hot dip galvanized, minimum trade size shall be 3/4".

B. Electrical Metallic Tubing (EMT) shall be steel, electro or hot dip galvanized. EMT fittings shall be compression type, concrete-tight.

C. Flexible Metallic Tubing shall be galvanized steel (aluminum not acceptable). Sealtite type UA or EF shall be used for all motor connections.

D. Liquid-tight Flexible Metal Conduit shall conform to UL360.

E. Rigid Non-metallic conduit shall be listed for use as electrical raceways. PVC shall be high density Type I Schedule 40, unless noted otherwise.

F. Connectors shall have insulated throats.

G. All fittings and connectors shall be steel or malleable iron. Pot-metal and die cast zinc not acceptable.

H. Power conductors shall be installed in conduit.

I. Fittings or symmetrical bends shall be required wherever right angle turns are made in exposed work.

J. Bends and offsets shall be avoided wherever possible, but where necessary, they shall be made with an approved conduit bending tool or machine.

K. All conduit joints shall be cut square, reamed smooth and drawn up tight.

L. Conduit shall be installed in horizontal and vertical runs in such a manner as to ensure against trouble from the collection of trapped condensation and shall be arranged so as to be devoid of traps.

M. Special care shall be used to ensure that aboveground conduit runs are parallel or perpendicular to walls, structural members, building lines, or intersections of vertical planes and ceiling.

N. During construction, all conduit work shall be protected to prevent introduction of water, dust, or debris into conduits, fittings or boxes.

O. Conduit shall be entirely free of damage, accumulation, debris, and residue prior to use, or the conduit shall be replaced.

P. All conduits in floors or below grade shall be swabbed free of debris and moisture before wires are pulled.

Q. Conduit noted as "SPARE", "EMPTY", or "FOR FUTURE USE" shall be provided with pullstring and readily removable caps or duct seal (no glue). Such conduit shall be labeled on both ends of run.

R. Conduit shall be properly supported per NEC and as specified herein.

S. Expansion fittings or other approved devices shall be used to provide for expansion and contraction where conduits cross building expansion joints and as recommended by manufacturer for long runs.

T. Each conduit passing from conditioned to non-conditioned space (such as from interior to exterior) or between two conditioned spaces with temperature differences greater than 15°F (such as from conditioned building to refrigeration unit) shall be sealed internally with duct seal or similar at the the penetration.

U. A flexible grounding strap shall bridge expansion joints and shall be bonded to conduit.

V. Conduit, boxes, devices, lights, and other electrical items shall be located to eliminate interference with moveable or serviceable items, such as eyebolts, cranes, equipment access doors, lifts, rollup doors, valves, or other items that may require clearance.

W. Conduit above slab shall be run concealed in the walls or ceilings unless specifically noted to be exposed. Noted exceptions include electrical and mechanical rooms.

X. Conduit under ground shall be buried no less than 24 inches below finished grade for non-service entrance, and no less than 30 inches below finished grade for service entrance (unless utility requires greater depth).

Y. Conduit installed for incoming utilities (such as service entrance power, telephone, data, cable TV, etc.) shall comply with the appropriate utility requirements. E.C. shall coordinate with appropriate utility company for inspection of installation prior to backfill.

Z. Conduit bushings shall be provided at the termination point of all conduit runs.

AA. Underground raceway shall be thoroughly photographed by the E.C. prior to backfill or concrete pour. The photos shall be taken in sufficient quantity and in such a manner to enable the Engineer and Owner to accurately discern the raceway routing, burial depth, type of bends (coated RMC, for example) and if applicable, duct bank layout and reinforcing steel.

AB. Routing with conduits less than 2" trade size is intentionally not typically depicted on drawings, but shall be provided. Routing for conduit 2" trade size and larger is typically depicted to show intended routing. Exact routing of conduit shall be determined in the field for ease of installation provided that the following criteria is met:
   1. All conduit, home runs, and circuits are made to the panel specified on the drawings, unless specifically noted to be routed via a control device (such as a switch, contactor, or time clock).
   2. Conduit runs shall comply with NEC.
   3. Conduits shall not conflict with other trades.
   4. Conduits shall not encroach on spaces dedicated for clearance or accessibility.
   5. Routing shall not render covers or doors inaccessible or non-removeable.

AB. Final connection to motors, etc., shall be made via one of the following methods (method must also be appropriate for the environment installed):
   1. Flexible metal conduit with stranded conductors.
   2. Liquid-tight flexible metal conduit with stranded conductors
   3. Armored flexible conduit which shall be waterproof for any locations outside, in kitchens, or any inside area subject to water, heavy moisture, condensation, etc.

AC. SPECIFIC CONDUIT TO BE USED
   1. All conduit and fittings shall be in new, unused condition, shall be free from rust, dirt, moisture, kinks, flats, cuts, or other distortions of shape.
   2. Concealed and exposed conduit in building, above slab shall be EMT with compression fittings. IMC and RMC also permitted.
   3. Straight conduit embedded in concrete shall be PVC with waterproof joints or PVC-coated RMC.
   4. Exposed conduit outside building, above grade shall be RMC with threaded waterproof fittings.
   5. Underground straight conduit shall be PVC with waterproof joints.
   6. Underground bends, penetrations through slabs-on-grade, and stub-ups from final bends up to equipment shall be PVC-coated RMC with radius of bend no less than 8x trade size of conduit.

SUPPORTS AND HANGERS

A. Conduit shall be supported on structural building members such as columns, beams, purlins, block, studs, or joists.

B. Conduit shall be supported on galvanized or aluminum brackets, clamps, or straps.

C. Conduit hangers shall be attached to building steel by beam clamps.

D. Hangers and supports shall be attached to wooden stud walls with wood screws.

E. Hangers and supports shall be attached to masonry with expansion type anchors (shield).

F. Supports shall be channel type supports such as manufactured by Uni-Strut, Globe, Kindorf, or equal.

G. Supporting means shall not be attached to roof decking.

BOXES

A. Pullboxes in air-conditioned spaces shall be code gauge and size, galvanized steel with screw-type or hinged-type cover.

B. Exterior pullboxes above grade shall be code gauge and size, galvanized steel with enamel finish and with screw-type or hinged-type cover. Boxes shall be rainproof and rated for the environment, but not less than NEMA 3R.

C. Exterior pullboxes underground and associated covers shall be no less than code size, shall be ANSI-Tier-rated as noted on drawings, and shall be fiberglass-reinforced-concrete polymer. Covers shall be gasketed, with logo on top - such as ELECTRIC; TELECOM, or other applicable logo.

D. Device boxes in stud walls (3-1/2" thickness or greater) shall be galvanized steel, no less than 2-1/2" deep.

E. Device boxes in furred and stud walls less than 3-1/2" thick shall be galvanized steel, 1 1/2 inch deep.

F. Wall boxes in four inch block shall be galvanized steel 2-1/2" deep. And In walls larger than four inch block, galvanized steel 3-1/2" deep.

G. Boxes may be ganged as required for multiple devices.

H. Through-wall boxes are prohibited.

I. Lighting outlet boxes and specified junction boxes shall be galvanized steel, 4" octagon with cover. Ratings shall not be less than N.E.C.

J. Floor boxes shall be standard depth-cast steel, flush-mounted cover with brass. Furnish with threaded brass receptacle covers, unless noted otherwise.

K. Telephone/data boxes shall be standard gauge galvanized steel, 4" square.

L. All wiring devices shall be installed in metallic boxes. Provide outlet boxes, receptacle boxes, junction boxes, and ceiling boxes at locations noted on the drawings and at locations required by the NEC.

M. Provide pull boxes as shown on the Drawings, as required by code, and as needed for ease of construction. Pull boxes shall remain accessible.

N. Outlets shall be installed in the locations shown on the drawings.

O. E.C. shall study the general building plans in relation to the space surrounding each outlet, in order that his work may fit with all other work required by these Specifications.

P. All steel supports for outlet boxes shall be furnished and installed.

Q. Outlet boxes for use with exposed steel conduit shall be cast steel. Cast metal fittings shall be cast steel. Cast metal fittings shall be Crouse-Hinds, Square D, Bryant, or equal.

R. All openings in electrical equipment, enclosures, cabinet, outlet and junction boxes shall be by means of welded bosses, standard knockouts, or shall be sawed, drilled, or punched with tools specially made for the purpose. The use of a cutting torch is prohibited.

S. All conduit connections to electrical boxes shall be made with locknuts and nonmetallic bushings.

T. Locknuts shall be drawn down tight to make ground connection between the conduit and box.

U. All boxes shall be labeled to indicate circuit (and/or feeder name). Boxes larger than 4x4 shall be provided with painted or adhesive labels. Boxes 4x4 and smaller may be legibly labeled via permanent marker. Refer to wiring devices specs regarding cover plate labeling.

WIRE AND CABLES

A. All wire used throughout work shall be soft drawn copper of not less than 98% conductivity. Aluminum is not acceptable, unless explicitly called out on specific feeders.

B. Wire and cable shall be new; and manufacturer's name permanently marked on the outer covering at regular intervals.

C. Conductors AWG No. 8 or smaller may be solid or stranded; larger sizes shall be stranded. Stranded conductors shall be used for final connections to vibrating equipment (such as motors).

D. All conductors for general wiring shall be insulated with THHN/THWN-2 insulation.

E. Conductors shall have solid-colored insulation with specific colors as noted on the details (based on voltage and phase), and shall be in compliance with the N.E.C.

F. Grounding conductors, if insulated, shall have green color insulation.

G. NM-type (romex) not permitted.

H. AC-type, BX-type, and any cable assembly without an integral wire-type equipment ground conductor is not permitted.

I. All wiring shall be installed in conduit or part of an MC-type cable assembly. MC-type cable acceptable only if:
   1. MC-type cable assembly includes integral wire-type green-insulated equipment ground conductor.
   2. MC-type cable is installed per NEC.

J. Conductors shall be sized according to the N.E.C., yet not smaller than shown on the drawings.

K. Minimum conductor size for 20A receptacle and lighting circuits shall be No. 12 AWG. Where one-way circuit distance from panelboard to furthest circuit load exceeds 65 feet, use No. 10 AWG minimum; over 100 feet, use No. 8 AWG.

L. All wiring shall be fully polarized throughout using white (or gray depending on voltage) wires for neutral and making all switching connections in colored hot wires.

M. No conductors shall be drawn into conduits until all work which may cause damage is completed.

N. Cable lubricants shall be non-adhesive non-hardening type, and be suitable for the insulation and conduit materials.

O. As far as practical, all feeder cables shall be continuous with the feeder source to load termination without using splices at intermediate pull boxes.

P. All cable terminals, taps, and splices shall be made with solderless, pressure type connectors; connectors shall be Type QA-B or Q2A as manufactured by Burndy, Okonite, McJunkin or equal.

Q. The minimum free length of conductor at each box for the connection of a fixture, switch or receptacle shall be 8".

R. Each branch circuit requiring a neutral connection shall be provided with a dedicated neutral conductor, even if multiple branch circuits share the same raceway. No shared neutrals permitted.

S. Boxes for 120-277V light lighting control devices shall be provided with a neutral conductor from each branch circuit brought to devices in the box.

PANELBOARDS

A. Acceptable manufacturers include: Eaton, Square D, or Siemens.

B. The panelboards shall be of dead-front construction with code gauge galvanized steel box, and door-in-door hinged front finished in gray lacquer.

C. Doors shall be provided with a plate tumbler lock with flush handle and typed directory card and holders.

D. See panel schedule for basis of design brand and model.

E. Furnish and install electrical system as described on Drawings, panel schedules and electrical riser diagram.

F. Panels shall be surface mounted or recessed (flush) as specified on the panel schedule.

G. All panelboards shall be circuit breaker type unless noted otherwise.

H. Voltage, phase, wires, poles/breaker space as specified on schedules and riser.
   Solid neutral, electrically isolated from enclosure and equipment ground bus, unless noted otherwise.

I. Panels rated at 10,000 AIC shall have stab-in breakers. Panels rated greater than 10,000 AIC shall have bolt-on breakers.

J. Provide fully rated panelboards (and breakers). Series-rated panelboards are not permitted, unless specifically noted.

K. Breakers size and quantity as shown on Schedules.

L. Breakers listed as "spare" shall be furnished and installed.

M. Panel listed with "space" shall be provided with extra space for future breakers. Each "space" shall be one single pole, unless noted otherwise. For L-Line (or similar) panels, each "space" shall be understood to be the mounting space required to accommodate one 20A single-pole breaker.

N. Panelboards shall be provided with no less than the number of breaker spaces (poles) or mounting space indicated on the panel schedules. If not noted, provide not less than 42 poles.

O. Unless otherwise indicated on Drawings, install all panels with the top of the trim 6'-3" above finished floor.

P. Install panelboards in location shown on the Drawings.

Q. Panelboards shall be mounted with screws, bolts, or anchors as required; panels shall not be supported by conduit alone.

R. Panelboards shall be internally and externally clean and shall be free from dust, debris, and non-intentional markings. Panelboards shall be vacuumed and wiped down (internally and externally) prior to substantial inspection.

S. Panelboard cover shall be provided with engraved phenolic plastic identification and wiring color code nameplates. Refer to detail on drawings.

T. Mount a typewritten directory behind glass or plastic on the inside of each panel door, showing panel information, circuit number, and complete description of all outlets on each circuit. Handwritten edits are not acceptable. Directory shall be installed prior to substantial inspection

CIRCUIT BREAKERS

A. Breakers shall be of the size specified on the Panel Schedules, unless otherwise required to match approved equipment nameplate MOCP or MOP values. Sizes shall be verified against equipment it serves

B. Breakers rated greater than 10,000 AIC shall be bolt-on.

C. Breakers shall have visual trip indicators.

D. Breakers shall alternate between busses to provide a balanced load.

E. Furnish and install all circuits breakers as described on the panel schedules and drawings.

F. Unconnected, spare, and future breakers shall be switched to and remain in the "OFF" (open) position.

FUSES

A. Provide size, type, and class as noted. If specifics are not noted, provide fuse suitable for application.

B. Voltage rating of fuse shall match or exceed circuit voltage.

C. Provide clips or kit as required to correctly mount the specified fuse in designated equipment.

DISCONNECTS

A. Ampere-rated for general disconnects.

B. Horsepower-rated for motor disconnects.

C. Meet Federal Spec. W-S-865c for Heavy Duty Switches. Meets NEMA KS-1975 for Type HD.

D. UL Listed.

E. Grey baked enamel finish.

F. Quick-break operating mechanism.

G. Visible handle.

H. Indoor disconnects shall be NEMA 1, unless noted otherwise.

I. Outdoor disconnects shall be NEMA 3R or better, unless noted otherwise.

J. Supply and install a disconnecting means for each motor where required by N.E.C. or if shown on drawings.

K. Locate disconnect as shown or as near as possible to motor within N.E.C compliance.

L. Disconnects furnished as an integral part of any piece of equipment in an NEC compliant manner shall be acceptable in lieu of a separate safety switch.

M. Switches shall be fused where shown on drawings.

N. Motor-rated switches shall be acceptable as disconnects for motors of 1/3 HP or less.

O. Disconnect switches shall be provided with machine-produced labels (on front cover) to indicate circuit source, circuit number, and load served.

STARTERS

A. Provide magnetic or manual starters and associated equipment as required for each motor.

B. Each starter shall have properly sized thermal overload protection for the motor it serves, based on approved motor nameplate FLA markings.

C. Overloads shall be manual reset type.

D. Supply and install magnetic motor starters with appropriate control buttons or switches for each piece of equipment unless other specifications call for starter to be furnished with equipment.

E. E.C. shall coordinate with both general contractor and mechanical contractor to assure that a starter has been provided for all equipment.

F. Where both a disconnect switch and motor starter are required in the same location, a combination starter shall be acceptable in lieu of individual components.

WIRING DEVICES

A. Model or part number listed below are for reference and establishing quality. All catalog numbers listed are Hubbell unless noted otherwise. Acceptable manufacturers shall be Hubbell, Pass and Seymour, Leviton, or Arrow-Hart. In so far as practical, all wiring devices shall be of the same manufacturer.

B. Provide white device color and cover plate, unless directed otherwise by note, owner, or architect.

C. Weather-resistant type receptacles shall be provided for wet locations, damp locations, exterior locations, non-conditioned locations, devices noted by "WP", devices otherwise noted to be provided with a weatherproof cover, and all locations required by NEC.

D. Tamper- resistant type receptacles shall be provided in noted locations and in all locations required by NEC.

E. USB receptacles shall be provided in noted locations. USB receptacles shall include tamper-resistance rating. USB receptacles shall have (2) NEMA 5-20R 125VAC receptacles, (1) type A USB port, (1) type B USB port. USB output shall be 5VDC 5A. Hubbell #USB20AC5W.

F. General Purpose Receptacles and single appliance type receptacles.
   1. General purpose receptacles shall be specification grade, 120 volt AC, 20 amp, NEMA 5-20R, grounding type, capable of accepting 15A and 20A plugs.
   2. Catalog numbers shall be:
      a. Single receptacle: 5361**
      b. Duplex receptacle: 5362**
      c. ** additional model number letters as required to designate tamper-resistance, GFI, color, weather resistance, etc. as required.

G. Special purpose receptacle
   1. Special purpose receptacles shall be installed as required and as shown to match equipment and appliance cord.
   2. Refer to plan and/or equipment schedule for NEMA configuration; verify with actual equipment. Notify engineer of any discrepancies requiring circuit modifications.

H. Switches
   1. General light switches shall be specification grade, 125-277 volt, 20 amp, heavy duty.
   2. Catalog numbers shall be: 1222 3-Way 1223 4-Way 1224
   3. Motor rated switches shall be used for any switches controlling singles phase motors.
   4. Motor rated switches shall be 120-277 volt and rated in accordance with the voltage and amperage of the motor.
   5. Refer to details for low-voltage (less than 120V) and digital lighting control devices.

I. Cover plates
   1. In finished areas with flush boxes: All cover plates shall be white thermoplastic smooth nylon for finished areas. Thermoset or residential grade materials not acceptable.
   2. In areas with exposed raceway and surface-mounted boxes: cover plates shall be galvanized steel.
   3. Exterior receptacles shall be provided with metallic, gasketed, "extra-duty", weatherproof, while-in-use covers.
   4. E.C. shall provide adhesive label on each cover plate to indicate source panel and circuit number. Also, circuit number shall be written on back side of cover plate.
   5. Catalog numbers:
      a. Switches: Single gang--P1, Two gang-----P2, Three gang---P3
      b. Single Receptacle 93091
      c. Duplex Receptacle Single gang P8, Two gang P82
      d. Special purpose outlets: Single gang P7882, Duplex 7423
      e. Switch Weatherproof covers: 7420
      f. WP while-in-use receptacle cover: WP26E

GROUNDING AND GROUND FAULT PROTECTION

A. All equipment and circuits shall be grounded and bonded in accordance with NEC, Article 250.

B. Provide ground fault protection for all receptacles indicated on the drawings via GFI receptacle symbol, all restroom/bathroom receptacles, all receptacles in exterior locations, and for all locations required by N.E.C. Standard receptacles shall be considered ground fault protected if in series with the GFI protection provided in an upstream GFI receptacle or GFI breaker.

C. GFI and GFCI abbreviations are used interchangeably in the documents.

D. Provide ground fault protection on all temporary construction circuits as required by OSHA or the National Electrical Code.

E. Service-entrance neutral and separately-derived neutrals shall each be bonded to the grounding electrode system only once and as located on the electrical riser diagram.

F. Grounding electrode conductors shall be sized per N.E.C., yet no smaller than shown on drawings.

G. All conduits shall contain a continuous "green" solid-colored equipment grounding conductor, sized in accordance with Table 250.122 of the N.E.C., unless larger size is noted (such as for elevator).

H. All metallic raceway shall be bonded to the equipment grounding conductor.

I. Provide driven ground rod(s) as close as possible to the service entrance location, sized and separated as noted and in accordance with N.E.C.

J. Metallic cold water supply pipe, concrete encased steel, building steel, and other electrodes per N.E.C. shall be bonded together to create the grounding electrode system.

K. Mechanical Equipment
   1. All mechanical equipment motors shall have grounded cases.
   2. All equipment shall have its metallic enclosure, frame, etc. bonded to the circuit equipment grounding conductor.

TELECOM

A. Provide conduit system for Telecom including fish wires, boxes and blank plates.

B. Conduit, cabling, and outlets shall be provided as shown on the drawings and the telecom riser.

C. Coordinate with local telecom utility company for any special requirements. All electrical work required by the telcom company shall be furnished and performed by the Electrical Contractor.

DIMMERS

A. Refer to lighting control details for basis of design.

B. Dimmers shall not rely on equipment grounding conductor as a return current path for control power; provide a separate neutral conductor for this purpose.

C. Dimmers shall be fully compatible with the drivers and fixtures they control.

SURGE PROTECTION DEVICE (SPD)

A. Provide TYPE 2 on panels as shown.

B. Provide SPD with integral audible and visible alarm features to indicate loss of protection.

C. MOV TYPE meeting UL-1449, 3rd edition, TYPE 2 listing.
   1. 120KA Surge Current Rating (L-L and L-G), unless greater capacity is noted for select locations.
   2. 20KA Nominal Discharge Current.
   3. 200KA SCCR (Short Circuit Current Rating)
   4. 150V MCOV (Maximum Continuous Operating Voltage) for 120/240V and 208Y/120V systems, 320V MCOV for 480Y/277V systems.

ARCHITECTURAL COORDINATION:

A. CEILING AREAS SUCH AS RECEPTION AND MECH./ELECT./I.T. ROOMS WHERE STRUCTURE AND CEILING ARE TO REMAIN EXPOSED TO SPACE BELOW AS PART OF THE FINAL ARCHITECTURAL EXPRESSION MUST BE EXECUTED AND FINISHED TO HIGH QUALITY AND STANDARD OF WORKMANSHIP. ALL SUBCONTRACTORS TO COORDINATE ROUTING AND INSTALLATIONS TO ENSURE CLEAN, SQUARE, ORDERLY, AND PARALLEL ALIGNMENT TO BUILDING LINES AND OTHER UTILITIES WHERE POSSIBLE.

B. WHEN INSTALLATIONS ARE COMPLETE ALL EXPOSED STRUCTURE, PIPES, CONDUITS, WIRING, DUCTS, ETC. IN THE EXPOSED CEILING AREAS OF CUSTOMER-FACING ROOMS SHALL BE PAINTED A UNIFORM COLOR TO BE SELECTED BY THE ARCHITECT.

ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
BJ	BONDING JUMPER
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CKT	CIRCUIT
CLG	CEILING
CONC	CONCRETE
COORD	COORDINATE
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDITION INDEX
CTRL	CONTROL
Cu	COPPER
CU	CONDENSING UNIT
DISC	DISCONNECT
DGR	DRIVEN GROUND ROD
EA	EACH
EBJ	EQUIPMENT BONDING JUMPER
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
EJ	EXPANSION JOINT
EM	EMERGENCY
ENCL	ENCLOSURE, ENCLOSED
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
EXIST	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
G, GND	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPT
GWB	GYPSUM WALL BOARD
HD	HEAVY DUTY
HOA	HAND-OFF-AUTO
JB	JUNCTION BOX
K	KELVIN
KVA	KILO-VOLT AMPERE
KW	KILO-WATT
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
LTS	LIGHTS
MBJ	MAIN BONDING JUMPER
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NL	NIGHT LIGHT
NS	NOT SWITCHED
NTS	NOT TO SCALE
OAE	OR APPROVED EQUAL
OE	OR EQUAL
OEM	ORIGINAL EQUIPMENT MANUFACTURER
OH	OVERHEAD
OL	OVERLOAD
P	POLE
PB	PULL BOX
PC	PHOTOCELL
PP	PUSH PLATE
PH, Ø	PHASE
PNL	PANEL
PRI	PRIMARY
REC	RECEPTACLE
RECEPT	RECEPTACLE
REF	REFRIGERATOR
REQ(S)	REQUIREMENT(S)
RGS	RIGID GALVANIZED STEEL
RTU	ROOFTOP UNIT
SBJ	SYSTEM BONDING JUMPER
SEC	SECONDARY
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
TC	TIMECLOCK
THD	TOTAL HARMONIC DISTORTION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
VAC	VOLTS ALTERNATING CURRENT
W	WIRE OR WATT
W/	WITH
W/D	WASHER/DRYER
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
~	APPROXIMATELY
Δ	DELTA
§	SECTION
>	GREATER THAN
≥	GREATER THAN OR EQUAL TO
<	LESS THAN
≤	LESS THAN OR EQUAL TO

LIGHTING LEGEND

- 2'X2' LIGHT FIXTURE — UPPERCASE LETTER = FIXTURE TYPE; LOWERCASE LETTER = SWITCH CIRCUIT
- WALL-MOUNTED LINEAR FIXTURE
- LINEAR FIXTURE (CEILING OR SUSPENDED)
- STRIP OR TAPE LIGHTING
- RECESSED CAN LIGHT
- HANGING PENDANT FIXTURE
- SURFACE-MOUNTED CIRCULAR FIXTURE
- WALL-MOUNTED FIXTURE
- EMERGENCY LIGHT, WALL-MOUNTED
- EMERGENCY LIGHT, CEILING-MOUNTED
- EXIT SIGN, WALL/CEILING-MOUNTED, CHEVRON DIRECTION INDICATED BY ARROWS
- EXIT SIGN AND EMERGENCY LIGHT, WALL/CEILING-MOUNTED FACES INDICATED BY SOLID HATCH
- REMOTE EMERGENCY LIGHT HEADS
- OCCUPANCY SENSOR, WALL/CEILING-MOUNTED, DUAL TECHNOLOGY TYPE, UNO
- POWER PACK FOR SENSOR
- AUXILIARY RELAY FOR SENSOR
- DAYLIGHT SENSOR AND RELAY
- PHOTOCELL
- LIGHT SWITCH — 3 = 3-WAY; 4 = 4-WAY; DLV = COMBO 0-10V DIMMER WITH LV SW, UNO; T = DIGITAL TIMER SWITCH, UNO; LV = LOW VOLTAGE MOMENTARY SW
- COMBINATION WALL-SWITCH/OCCUPANCY SENSOR
- CHANDELIER
- CEILING FAN
- POLE-MTD LIGHT

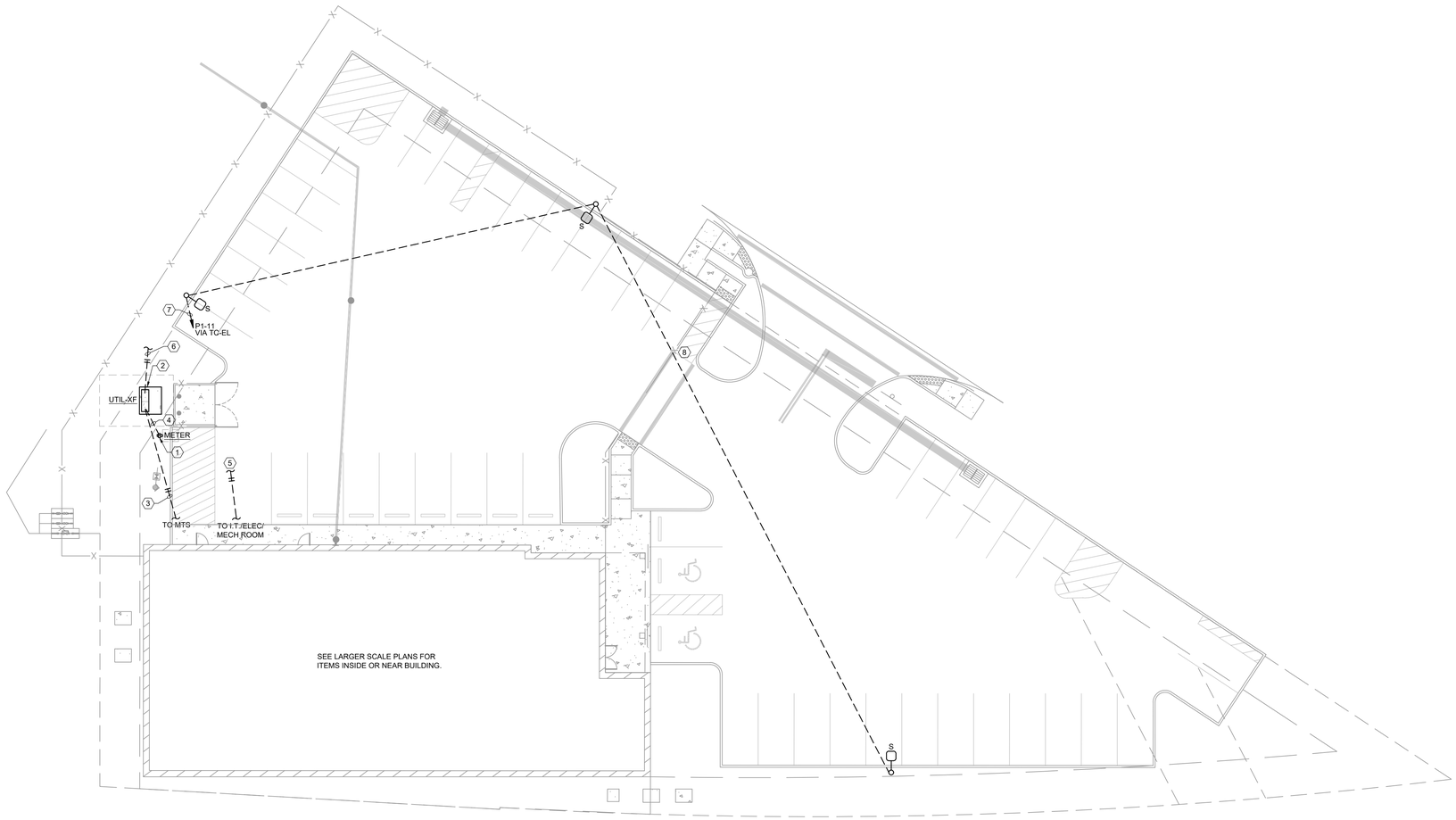
FIRE ALARM LEGEND

- PULL STATION
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- HEAT DETECTOR
- COMBINATION HORN/STROBE, WALL- AND CEILING-MOUNTED
- STROBE, WALL- MOUNTED AND CEILING-MOUNTED, MIN. CANDELA AS NOTED (TYP.)
- EXTERIOR VIBRATING BELL
- ISOLATION MODULE
- ADDRESSABLE INPUT MODULE
- ADDRESSABLE OUTPUT MODULE
- FIRE ALARM CONTROL PANEL
- POWER SUPPLY
- NAC PANEL
- END-OF-LINE TERMINATOR
- SHUTDOWN RELAY MODULE
- REMOTE TEST STATION AND INDICATOR LIGHT
- SURGE SUPRESSOR (TVSS/SPD)
- TAMPER SWITCH
- WATERFLOW SWITCH

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

POWER, SYSTEMS, & MISC. LEGEND

- DUPLEX RECEPTACLE, INSTALL AT 18" AFF UNO; +48 = INSTALL AT 48" AFF; +60 = INSTALL AT 60" AFF; TV = INSTALL AT 72" AFF, UNO; * = INSTALL 6" ABOVE COUNTER OR DESK; REF = DEDICATED F



ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'-0"

SHEET NOTES

A. NOT USED THIS SHEET.

SHEET KEYNOTES

1. PROVIDE METER ON POST WITHIN 15' OF TRANSFORMER SECONDARY. PROVIDE 48" DEEP BY 36" WIDE X 84" TALL CLEAR SPACE IN FRONT OF METER, PER UTILITY CO. REQS.
2. PROVIDE PAD PER UTILITY CO. REQS. SEE DETAIL. TRANSFORMER SHALL HAVE NO ABOVE GROUND OBSTRUCTIONS WITH 10' OF FRONT OR 3' OF ANY SIDE OR BACK.
3. UG SERVICE ENTRANCE FEEDER.
4. METERING CONDUIT. SEE RISER.
5. INCOMING TELCOM CONDUITS. E.C. SHALL CONFIRM STUB-UP LOCATION WITH TELECOM UTILITY.
6. PRIMARY ELECT CONDUITS. COORDINATE WITH UTILITY CO.
7. 3#8 IN 1"C. MIN. FOR POLE SITE LIGHTING CIRCUIT. REFER TO CIVIL PLANS FOR POLE AND FIXTURE SPECIFICATIONS.
8. COORDINATE WITH UTILITY COMPANY TO PROVIDE LOCK BOX WITH SPARE KEY, GATE CODE, OR OTHER MEANS ON GATE TO ENABLE 24/7 UTILITY COMPANY EMERGENCY ACCESS TO TRANSFORMER AND UTILITY EASEMENTS LOCATED WITHIN FENCED-IN AREA.

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NEW OFFICE BUILDING
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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE:	05/30/2025
DESIGNED BY:	CJF
DRAWN BY:	CJF
CHECKED BY:	CJF

DRAWING TITLE:
ELECTRICAL SITE PLAN

SHEET NO:
E101

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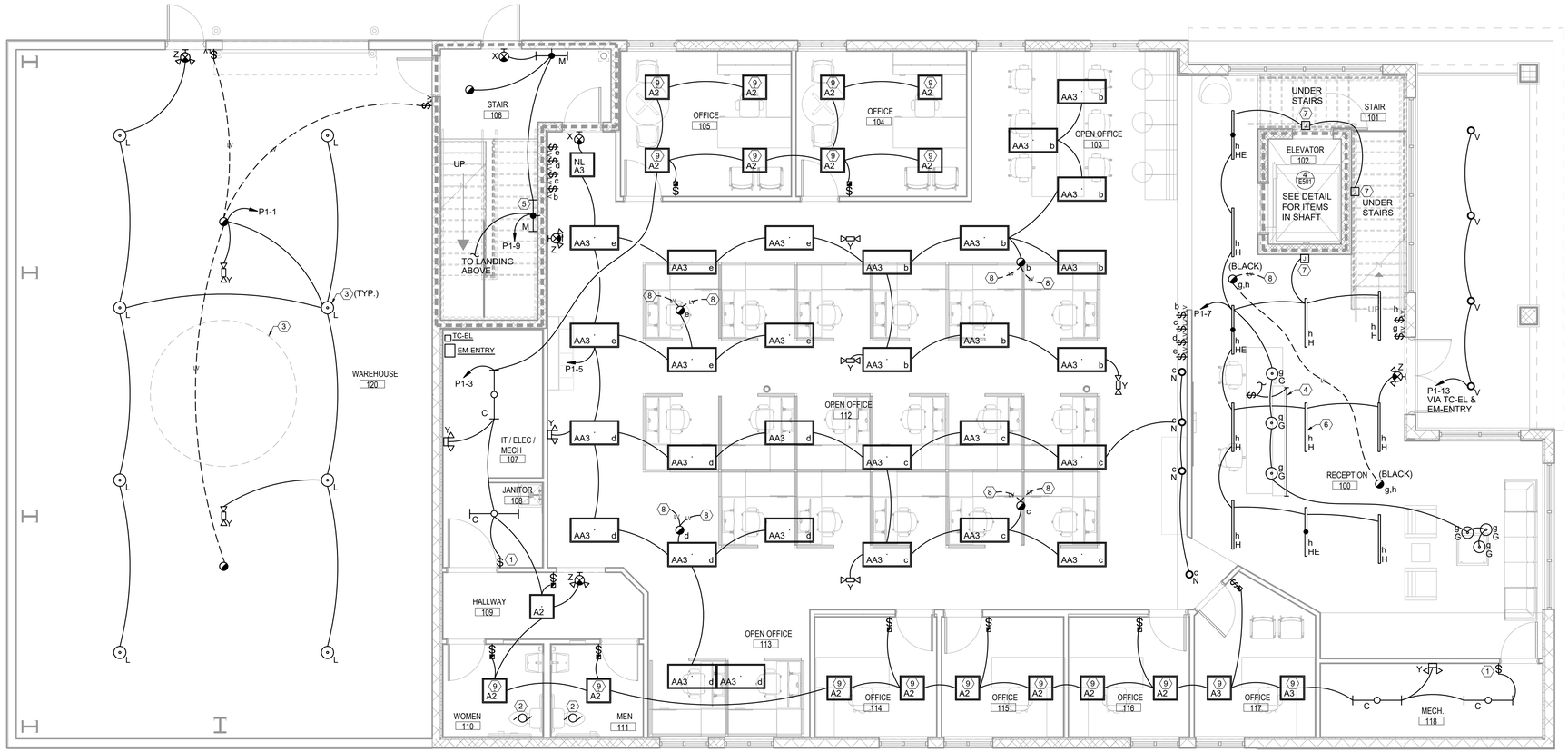

LIGHTING PLAN - FIRST FLOOR

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

SHEET NOTES

A. TYPE X, Y, AND Z FIXTURES, AND FIXTURES NOTED AS 'NL' SHALL BE CONNECTED TO NON-SWITCHED CIRCUIT CONDUCTOR DIRECTLY FROM THE BREAKER. PROVIDE ADDITIONAL NON-SWITCHED CONDUCTOR IN LIGHTING RUN FOR THIS PURPOSE.

B. CONDUITS AND CIRCUITS SHALL NOT BE ROUTED THRU STAIRWELL UNLESS THEY SERVE ITEMS WITHIN THE STAIRWELL.

C. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING HEIGHTS, GRID AND SOFFIT LOCATIONS, AND PRECISE LOCATIONS FIXTURES.

(#) SHEET KEYNOTES

1. MANUAL-ONLY LIGHTING CONTROL FOR SAFETY, TO COMPLY WITH NEC 110.26(D).
2. CONNECT CEILING EXHAUST FAN (120V, 1PH, <25W) TO ROOM LIGHTING CIRCUIT.
3. LIGHTING SHALL BE INSTALLED OUTSIDE OF CEILING FAN CLEARANCE AREA, AND NOT HIGHER THAN THE FAN BLADES.
4. COORDINATE WITH FURNITURE VENDOR. PROVIDE LED TAPE LIGHT ABOVE TOE KICK AS NOTED ON ARCHITECTURAL DETAILS. CONNECT TO RECEPTION RECEPTACLE CIRCUIT AND PROVIDE LOCAL MANUAL SWITCH WITHIN MILLWORK TO ENABLE LIGHT TO FUNCTION AS SECURITY NIGHT LIGHT.
5. FIXTURE UNDER STAIR RISER.
6. 12' AFF TO BOTTOM OF FIXTURE, UNLESS DIRECTED OTHERWISE BY ARCHITECT. (TYPICAL FOR FIXTURES OF THE SAME TYPE IN THIS ROOM).
7. PROVIDE J-BOX WITH CONDUCTORS TO NOTED CIRCUIT FOR FUTURE WALL-WASH ARTWORK LIGHTING. MOUNT J-BOX TO ELEVATOR SHAFT WALL, AS HIGH AS POSSIBLE.
8. TO SWITCH(ES).
9. PROVIDE RATED COVER OVER FIXTURE TO SEPARATE FIXTURE FROM BATTING (TENMAT #FF130-2X2, O.A.E.).

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LIGHTING PLAN FIRST FLOOR

SHEET NO:
E201

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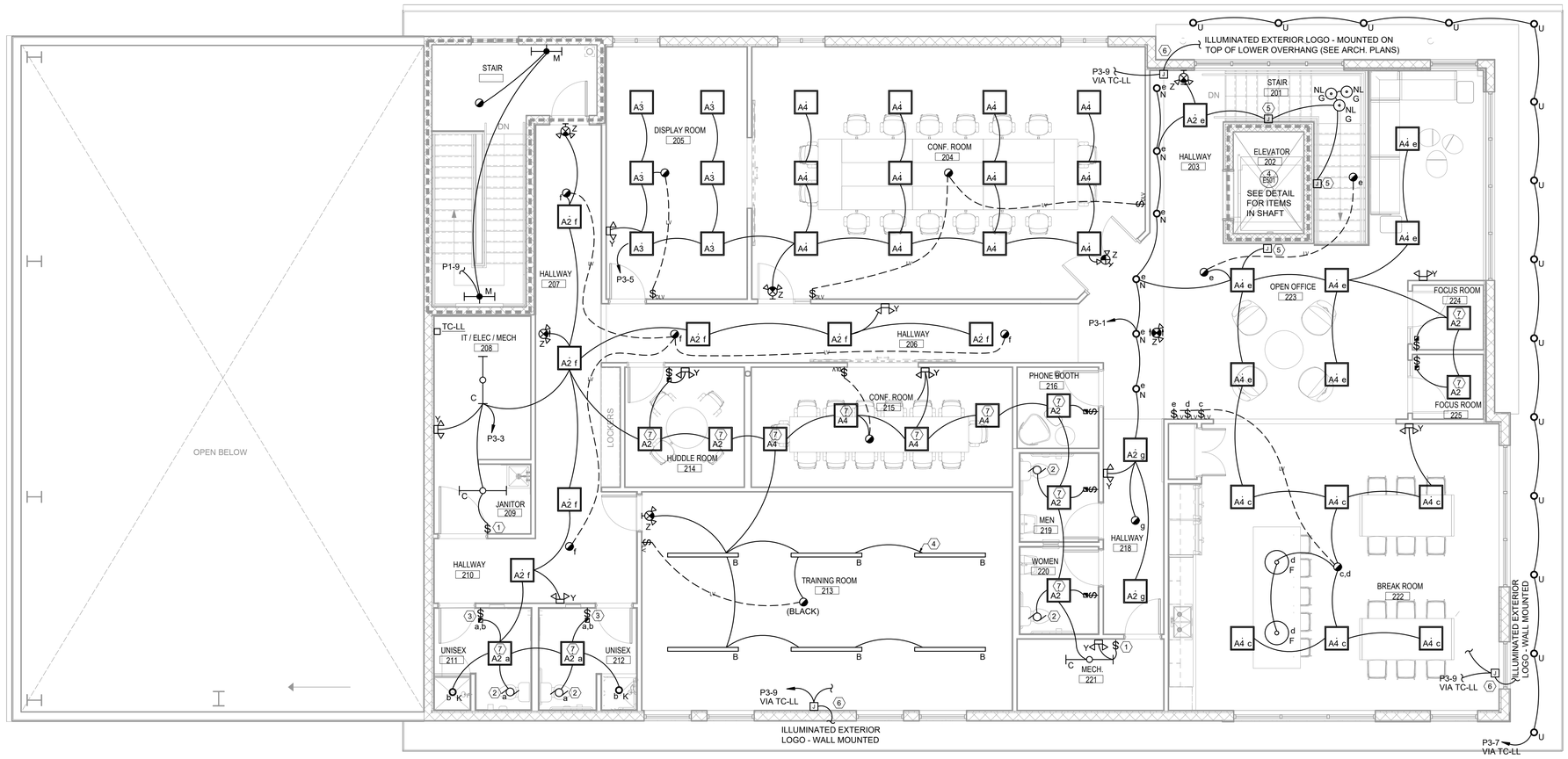

LIGHTING PLAN - SECOND FLOOR

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

SHEET NOTES

A. TYPE X, Y, AND Z FIXTURES, AND FIXTURES NOTED AS 'NL' SHALL BE CONNECTED TO NON-SWITCHED CIRCUIT CONDUCTOR DIRECTLY FROM THE BREAKER. PROVIDE ADDITIONAL NON-SWITCHED CONDUCTOR IN LIGHTING RUN FOR THIS PURPOSE.

B. CONDUITS AND CIRCUITS SHALL NOT BE ROUTED THRU STAIRWELL UNLESS THEY SERVE ITEMS WITHIN THE STAIRWELL.

C. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING HEIGHTS, GRID & SOFFIT LOCATIONS, AND PRECISE LOCATIONS FIXTURES.

SHEET KEYNOTES

1. MANUAL-ONLY LIGHTING CONTROL FOR SAFETY, TO COMPLY WITH NEC 110.26(D).
2. CONNECT CEILING EXHAUST FAN (120V, 1PH, <25W) TO ROOM LIGHTING CIRCUIT.
3. PROVIDE OCC SENSOR SWITCH WITH 2 BUTTONS: ONE BUTTON FOR VANITY & FAN AND ONE FOR SHOWER. VANITY & FAN SHALL AUTO-ON. SHOWER SHALL MANUAL-ON. ALL AUTO-OFF AFTER NO ACTIVITY.
4. SUSPEND TYPE B FIXTURE AT 12' AFF, UNLESS DIRECTED OTHERWISE BY ARCHITECT (TYP. FOR ALL TYPE B IN THIS ROOM).
5. PROVIDE J-BOX WITH CONDUCTORS TO NOTED CIRCUIT FOR FUTURE WALL-WASH ARTWORK LIGHTING. MOUNT J-BOX TO ELEVATOR SHAFT WALL 6" ABOVE CEILING.
6. LV POWER SUPPLY AND LOCAL DISCONNECT FOR SIGN LIGHTING SHALL BE PROVIDED BY SIGN VENDOR. COORDINATE WEATHERPROOF WALL PENETRATIONS WITH APPROVED SIGN SHOP DRAWINGS.
7. PROVIDE RATED COVER OVER FIXTURE TO SEPARATE FIXTURE FROM BATTING (TENMAT #FF130-2X2, O.A.E.).

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LIGHTING PLAN SECOND FLOOR

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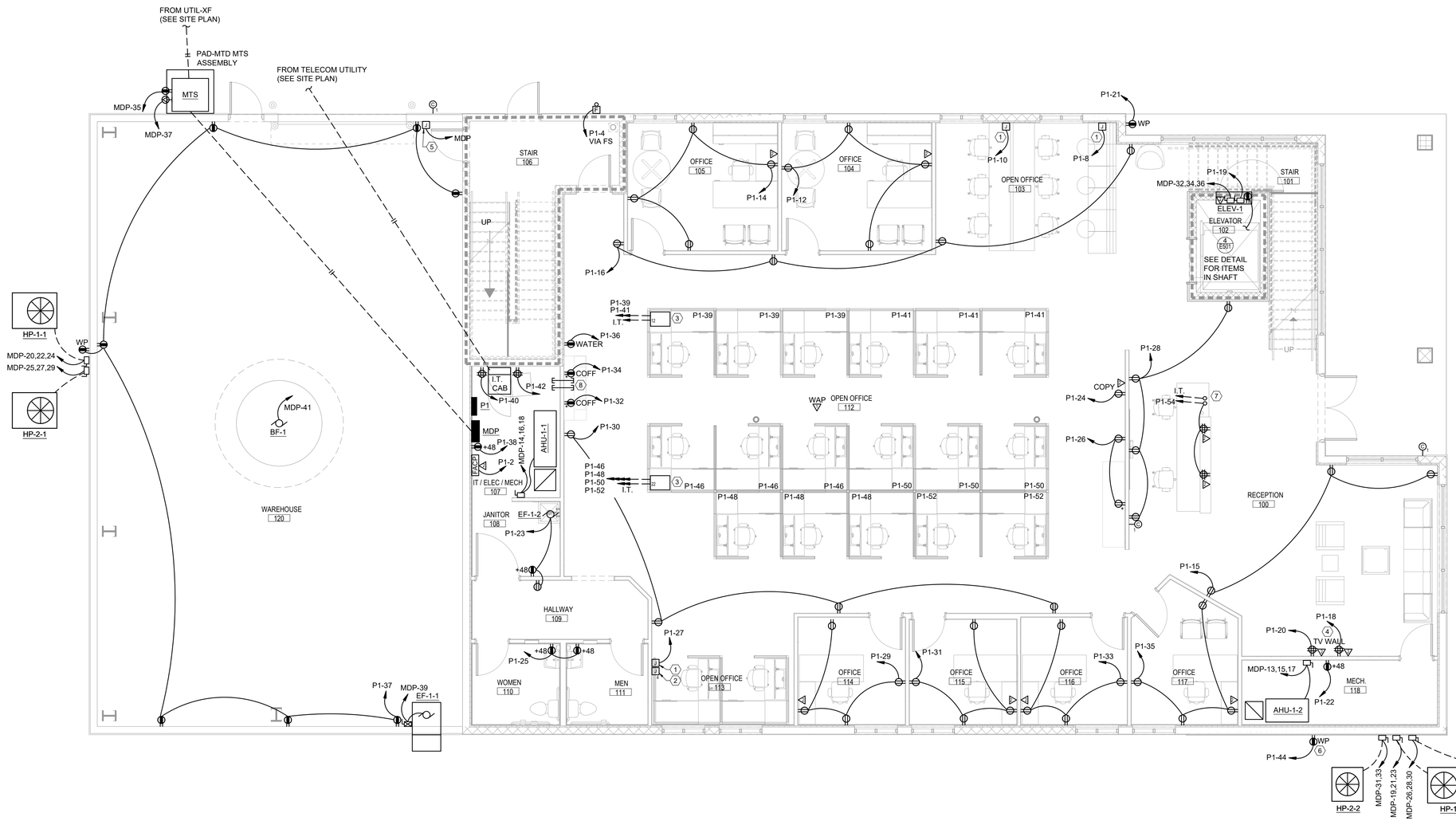

POWER & SYSTEMS PLAN - FIRST FLOOR

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

SHEET NOTES

A. COORDINATE WITH FURNITURE SHOP DRAWINGS FOR FINAL WHIPS AND CONNECTION DETAILS FOR POWER AND DATA AS APPLICABLE.

B. CONDUITS AND CIRCUITS SHALL NOT BE ROUTED THRU STAIRWELL UNLESS THEY SERVE ITEMS WITHIN THE STAIRWELL.

(#) SHEET KEYNOTES

1. PROVIDE FLUSH J-BOX FOR POWER TO FURNITURE. WHIP BY FURNITURE VENDOR.
2. PROVIDE FLUSH J-BOX FOR DATA TO FURNITURE. WHIP BY FURNITURE VENDOR.
3. PROVIDE POWER/DATA FLOOR BOX FOR CONNECTION TO OFFICE FURNITURE. WHIP BY FURNITURE VENDOR.
4. PROVIDE DATA AND POWER AT TV WALL VIA RECESSED OUTLETS IN WALL. COORDINATE MOUNTING LOCATIONS AND HEIGHTS TO BE CONCEALED BEHIND SCREENS, YET NOT CONFLICT WITH SCREEN MOUNTING HARDWARE. ANTICIPATED ARRAY OF 2 ROWS OF 2 TVS IN EACH ROW (4 TOTAL TVS). OUTLET LOCATIONS SHALL BE CONFIRMED WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
5. PROVISIONS FOR FUTURE MOTORIZED DOOR. PROVIDE JUNCTION BOX AT TOP RIGHT OF DOOR OPENING AND 3/4"C HOMERUN TO ELECTRICAL ROOM.
6. RECEPTACLE FOR IRRIGATION CONTROLLER AND HVAC MAINTENANCE. RECEPTACLE SHALL BE PROVIDED WITHIN 25' OF FARTHEST CORNER OF HP-2-3.
7. STUB UP 3/4" POWER AND 1" DATA CONDUITS AT RECEPTION DESK. COORDINATE WITH CUSTOM MILLWORK TO PROVIDE POWER AND DATA OUTLETS IN MILLWORK.
8. TELECOM SLEEVES ABOVE CEILING. SEE TELECOM RISER.

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POWER & SYSTEMS PLAN FIRST FLOOR

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E211

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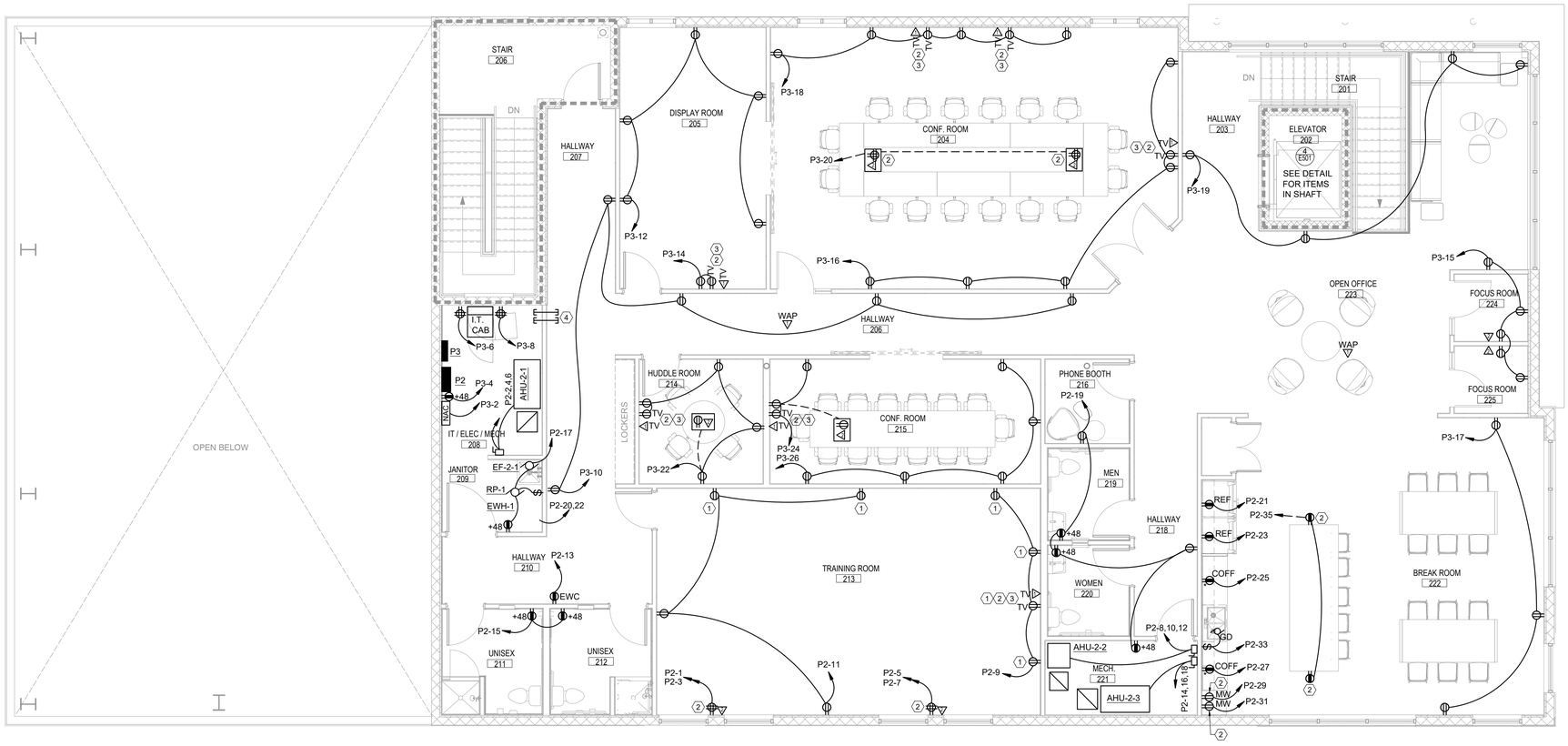

POWER & SYSTEMS PLAN - SECOND FLOOR

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

SHEET NOTES

A. CONDUITS AND CIRCUITS SHALL NOT BE ROUTED THRU STAIRWELL UNLESS THEY SERVE ITEMS WITHIN THE STAIRWELL..

SHEET KEYNOTES

1. COORDINATE RECEPTACLE INSTALLATIONS TO FALL AT LEAST 2" BELOW MIRRORS IF APPLICABLE. HORIZONTAL ORIENTATION IS OK IF REQUIRED TO COMPLY.
2. COORDINATE LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
3. PROVIDE RECESSED BOX FOR TV POWER & DATA RECEPTACLES.
4. TELECOM SLEEVES ABOVE CEILING. SEE TELECOM RISER

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POWER & SYSTEMS PLAN SECOND FLOOR

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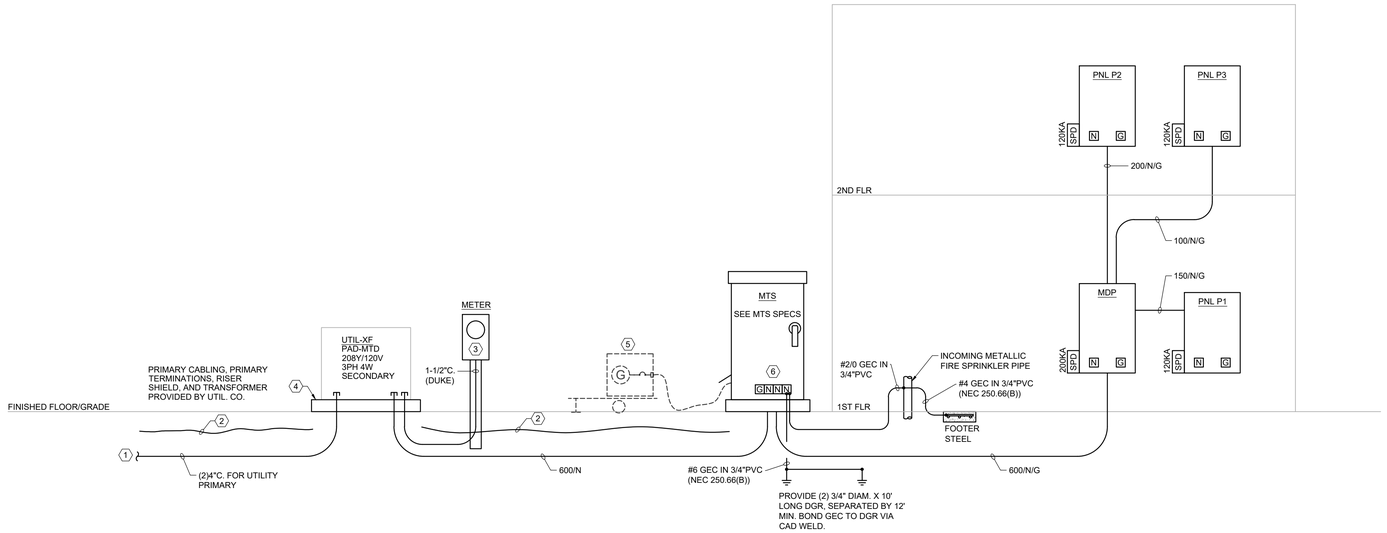

1 ELECTRICAL RISER DIAGRAM

PROVIDE SIGNS ON NOTED EQUIPMENT. SIGNS SHALL BE LAMINATED BLACK PHENOLIC RESIN WITH SOLID WHITE CORE WITH ENGRAVED LETTERING MINIMUM OF 3/8 INCH HEIGHT.

SIGNS ON INTERIOR ITEMS MAY BE ATTACHED USING ADHESIVE. SIGNS ON EXTERIOR ITEMS SHALL BE ATTACHED USING WEATHERPROOF/UV RESISTANT ADHESIVE.

EXAMPLES ARE DEPICTED BELOW.

GEAR MAY BE FED BY AN OPTIONAL STANDBY POWER SOURCE: PORTABLE GENERATOR NORTH OF BUILDING	PROVIDE ON MTS FRONT COVER DOOR, OUTSIDE FACE. (SIGN REQUIRED PER NEC 702.7)
WARNING: FOR CONNECTION OF A NONSEPARATELY DERIVED (FLOATING NEUTRAL) SYSTEM ONLY 208Y/120 VOLTS, 3-PHASE, 4-WIRE	PROVIDE ON MTS CAM-LOCK COVER DOOR, INSIDE FACE. (SIGN REQUIRED PER NEC 702.7)
WARNING: SHOCK HAZARD EXISTING IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE IS ENERGIZED.	PROVIDE ON MTS FRONT COVER DOOR, INSIDE FACE. (SIGN REQUIRED PER NEC 702.7)
VOLTAGE 208Y/120 3PH PHASE A BLACK PHASE B RED PHASE C BLUE NEUTRAL WHITE GROUND GREEN	PROVIDE ON INSIDE FRONT COVER OF 208Y/120V PANEL(S)
PANEL PA 208Y/120 VOLTS, 3-PHASE, 4-WIRE SERVED FROM PANEL MDP, CKTS 2,4,6 ELEC ROOM #123	PROVIDE ON FRONT COVER OF EACH PANEL, WITH APPLICABLE INFORMATION ON LABEL INCLUDING PANEL NAME, VOLTAGE, PHASE, WIRE, AND FEEDER SOURCE.
MAIN DISCONNECT 1 OF # PANEL AAA	PROVIDE ON EACH MAIN DISCONNECT, FRONT COVER, WHERE # IS THE QUANTITY OF MAIN DISCONNECTS

2 EXAMPLE NAMEPLATE DETAILS

MTS SPECS:

A. SERVICE ENTRANCE RATED, PRE-WIRED, FUSED MANUAL TRANSFER SWITCH WITH QUICK CONNECTS AND ACCESSORY RECEPTACLES FOR PORTABLE GENERATOR.

B. B.O.D.: SALIENT POWER SOLUTIONS "COMBO ROTARY TRANSFER SWITCH WITH CAM-LOCK RECEPTACLES" #MTSWC-06-B3-3R-MR-FL-GF-R3-PL-SP-FHM, OR APPROVED EQUAL.

C. VOLTAGE SYSTEM: 208Y/120V 3PH 4W

D. SWITCHING POLES: 3

E. NEUTRAL: SOLID UNSWITCHED

F. SWITCH AMPACITY: 600A

G. FUSES ON LOAD SIDE OF SWITCH: 600A, 250VAC RATED, CLASS J

H. UTIL SOURCE CONNECTION: MULTIPLE LUGS PER PHASE & NEUTRAL FOR CABLE TERMINATION.

I. GEN SOURCE CONNECTION: MALE CAMLOCK CONNECTORS (2) PER PHASE & NEUTRAL, (1) GROUND; INSTALLED ON RIGHT-HAND SIDE BEHIND LOCKABLE DOOR.

J. ASSEMBLY MOUNTING: FLOOR-MOUNTED; PROVIDE CONCRETE PAD UNDER GEAR.

K. PROVIDE WITH PILOT LIGHT INDICATION FOR VOLTAGE PRESENT.

L. ENCLOSURE: NEMA 3R WITH LOCKABLE DOOR.

M. PROVIDE WITH INTEGRAL 200KA SURGE PROTECTION DEVICE ACCESSORY.

N. PROVIDE WITH ENCLOSURE ANTI-CONDENSATION SPACE HEATER & THERMOSTAT.

O. PROVIDE ASSEMBLY WITH INTEGRAL (1) 30A TWIST LOCK AND (2) 20A GFCI WP RECEPTACLES ON SIDE OF ENCLOSURE (FED FROM BUILDING). RECEPTACLES INTENDED TO ACCOMMODATE PORTABLE GENERATOR BATTERY CHARGING AND ACCESSORY LOADS.

P. 3-POSITION CENTER OFF SWITCH, LOCKABLE IN ALL THREE POSITIONS.

Q. UL-1008 LISTED SWITCH.

FEEDER SCHEDULE

NAME	PHASE (AWG)	N (AWG)	G (AWG)	EBJ (AWG)	CONDUIT (3PH 4W)	CONDUIT (3PH 3W)	CONDUIT (1PH 2W)	AMPA-CITY
20	12	12	12	-	3/4"	3/4"	3/4"	20
30	10	10	10	-	3/4"	3/4"	3/4"	30
50	8	8	10	8	3/4"	3/4"	3/4"	50
60	6	6	10	8	1"	3/4"	3/4"	65
70	4	4	8	8	1-1/4"	1"	1"	85
80	4	4	8	8	1-1/4"	1"	1"	85
90	3	3	8	8	1-1/4"	1-1/4"	1"	100
100	3	3	8	8	1-1/4"	1-1/4"	1"	100
125	1	1	6	6	1-1/2"	1-1/2"	-	130
150	1/0	1/0	6	6	2"	1-1/2"	-	150
175	2/0	2/0	6	4	2"	2"	-	175
200	3/0	3/0	6	4	2"	2"	-	200
225	4/0	4/0	4	2	2-1/2"	2"	-	230
250	250	250	4	2	3"	2-1/2"	-	255
300	350	350	4	1/0	3"	3"	-	310
380	500	500	3	1/0	3-1/2"	3"	-	380
400	(2) 3/0	(2) 3/0	(2) 3	(2) 1/0	(2) 2"	(2) 2"	-	400
400*	600	600	3	1/0	4"	3-1/2"	-	420
500	(2) 250	(2) 250	(2) 2	(2) 1/0	(2) 3"	(2) 2-1/2"	-	510
600	(2) 350	(2) 350	(2) 1	(2) 2/0	(2) 3"	(2) 3"	-	620
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-

SIZES NOTED ABOVE ARE MINIMUM VALUES (AWG OR KCMIL).

ASSUMPTIONS FOR ITEMS ABOVE:
- AMPACITY BASED ON CU THHN/THWN-2 CONDUCTORS
- CONDUIT SIZES BASED ON PVC SCHED 40, EMT, IMC, OR RMC
- AMPACITY BASED ON TERMINATIONS & EQUIP RATED 75 DEGREE C
- E.C. IS AWARE OF CIRCUIT/FEEDER VOLTAGE

EXAMPLES:
60/G
3PH 3W FEEDER WITH EQUIPMENT GROUNDING CONDUCTOR: 3-#6AWG PHASE CONDUCTORS, NO NEUTRAL, AND 1-#10AWG EQUIPMENT GROUNDING CONDUCTOR IN A 3/4"" CONDUIT

100/N/EBJ
3PH 4W FEEDER WITH EQUIPMENT BONDING JUMPER:
3-#3AWG PHASE CONDUCTORS, 1-#3AWG NEUTRAL CONDUCTOR, AND 1-#8AWG EQUIPMENT BONDING JUMPER IN A 1-1/4"" CONDUIT"

20/G (1PH)
1PH 2W FEEDER WITH EQUIPMENT GROUNDING CONDUCTOR:
2-#12AWG PHASE CONDUCTORS (OR ONE PHASE AND ONE NEUTRAL IF 120V OR 277V), AND 1-#12AWG EQUIPMENT GROUNDING CONDUCTOR IN 3/4" CONDUIT.

20/G (1PH 3W) OR 20/N/G (1PH)
1PH 3W FEEDER WITH EQUIPMENT GROUNDING CONDUCTOR:
2-#12AWG PHASE CONDUCTORS, 1-#12AWG NEUTRAL CONDUCTORS, AND 1-#12AWG EQUIPMENT GROUNDING CONDUCTOR IN 3/4" CONDUIT.

SHORT CIRCUIT CALCULATIONS

UTIL-XF		KVA (S)	VS	PH	%Z (Z)	MA (S)	SCC-BEG	SCC-END (S)
		225	208	3	3	100	INFINITE	21,218
CABLE FROM	**CABLE TO**	**V**	**PH**	**SETS**	**WIRE**	**COND**	**FT (±)**	**SCC-BEG**	**SCC-END (S)**
UTIL-XF	MTS	208	3	2	350 Cu	NON	45	21,218	18,060
MTS	MDP	208	3	2	350 Cu	NON	50	10,000	9,161
MDP	P1	208	3	1	1/0 Cu	MAG	5	9,161	8,786
MDP	P2	208	3	1	3/0 Cu	MAG	12	9,161	8,552
MDP	P3	208	3	1	3 Cu	MAG	12	9,161	7,683
MDP	AHU-1-1	208	3	1	6 Cu	MAG	10	9,161	6,969
MDP	AHU-1-2	208	3	1	8 Cu	MAG	85	9,161	1,774
MDP	HP (ANY)	208	3	1	8 Cu	NON	50	9,161	2,657
P2	AHU-2-1	208	3	1	8 Cu	MAG	10	8,552	5,868

FUSE LOCATION	CLASS	VR	A	TABLE VALUE	SCC-BEG (S)	SCC-END (S)
MTS	J	250	600	20000	18,060	10,000

SHORT CIRCUIT CALCULATION NOTES:
CALCULATIONS ABOVE ARE BASED ON ASSUMPTIONS NOTED, INCLUDING THE MAXIMUM ASSUMED UTILITY TRANSFORMER KVA, MINIMUM ASSUMED TRANFORMER IMPEDANCES, AND MINIMUM ASSUMED FEEDER DISTANCES. CONTRACTOR SHALL FIELD-VERIFY ASSUMPTIONS FOR VALIDITY PRIOR TO ORDERING EQUIPMENT. IF ACTUAL CONDITIONS ARE FOUND TO BE OUTSIDE OF THE MAXIMUM OR MINIMUM VALUES LISTED, CONTACT DESIGN ENGINEER FOR RECALCULATION. THE FEEDER LENGTHS IN THIS TABLE ARE INTENTIONALLY LOW TO REFLECT A CONSERVATIVE SHORT CIRCUIT CALACULATION; THEREFORE THE FEEDER LENGTHS NOTED ABOVE SHALL NOT BE USED FOR MATERIAL TAKE-OFFS.

NEW EQUIPMENT SCHEDULE

MARK	DESCRIPTION	VOLTS/ PH	FLA	MCA	BKR	FEEDER	DISCONNECTING MEANS	NOTES
AHU-1-1	10T AIR HANDLER, 11.25KW ELEC HEAT	208/3	41.9	52	60	60/G	60A, 3P, FUSED, GD, NEMA 1	FUSE REQ'D DUE TO SCCR
AHU-1-2	7.5T AIR HANDLER, 7.48KW ELEC HEAT	208/3	31.4	39	40	50/G	60A, 3P, NF, GD, NEMA 1	
AHU-2-1	7.5T AIR HANDLER, 7.48KW ELEC HEAT	208/3	31.4	39	40	50/G	60A, 3P, FUSED, GD, NEMA 1	FUSE REQ'D DUE TO SCCR
AHU-2-2	3T AIR HANDLER, 3.6KW ELEC HEAT	208/1	19.7	27	30	30/G (1PH)	30A, 2P, NF, GD, NEMA 1	
AHU-2-3	7.5T AIR HANDLER, 7.48KW ELEC HEAT	208/3	31.4	39	40	50/G	60A, 3P, NF, GD, NEMA 1	
HP-1-1	10T HEAT PUMP	208/3	33.5	38	50	50/G	60A, 3P, NF, GD, NEMA 3R	
HP-1-2	7.5T HEAT PUMP	208/3	29.9	35	45	50/G	60A, 3P, NF, GD, NEMA 3R	
HP-2-1	7.5T HEAT PUMP	208/3	29.9	35	45	50/G	60A, 3P, NF, GD, NEMA 3R	
HP-2-2	3T HEAT PUMP	208/1	14.7	18	30	30/G (1PH)	30A, 2P, NF, GD, NEMA 3R	
HP-2-3	7.5T HEAT PUMP	208/3	29.9	35	45	50/G	60A, 3P, NF, GD, NEMA 3R	
EF-1-1	1/2HP EXHAUST FAN	120/1	9.8	15	20	20/G (1PH)	PROVIDE COMBO STARTER/DISC.	
EWH-1	9KW ELEC. WATER HEATER	208/1	43.3	54	60	60/G (1PH)	LOCKABE BR. BREAKER	
ELEV-1	20HP CONTROLLER	208/3	59.4	74.25	90	100/G	100A, 3P, FUSED, HD, NEMA 1	90A FUSES
ELEV-1	CAB LIGHTING	120/1	<5	20	15	20/G (1PH)	30A, 2P, FUSED, HD, NEMA 1	15A FUSES
BF-1	8" DIAM HVLS FAN	120/1	<5	15	15	20/G (1PH)		

EQUIPMENT SCHEDULE NOTES:
BREAKER, FEEDER, STARTER, AND DISCONNECT SWITCH CHARACTERISTICS INDICATED ABOVE ARE BASIS OF DESIGN VALUES. SIZES AND RATINGS OF ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AS REQUIRED TO ACCOMMODATE MANUFACTURER M.C.A. (MINIMUM CIRCUIT AMPACITY) AND M.O.C.P. (MAXIMUM-OVERCURRENT PROTECTION) RATINGS AS NOTED ON EQUIPMENT NAMEPLATES. FEEDERS SIZES SHALL NOT DECREASE.

SHEET NOTES

A. PROVIDE CUSTOM SIGNS & NAMEPLATES ON ALL EQUIPMENT. REFER TO EXAMPLE NAMEPLATE DETAILS.

B. GROUNDING ELECTRODES SHALL BE BONDED TOGETHER PER NEC 250.

C. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

D. SERVICE LOAD CALCULATION MAY BE FOUND AT THE BOTTOM OF PANEL MDP SCHEDULE.

(#) SHEET KEYNOTES

1. PROVIDE PRIMARY CONDUITS PER DUKE ENERGY REQUIREMENTS. COORDINATE STUB UP LOCATIONS WITH DUKE ENERGY.
2. PROVIDE 6" WIDE, RED, DETECTABLE, "BURIED ELECTRIC" WARNING TAPE BURIED 12" BFG, ABOVE ENTIRE LENGTH OF PRIMARY AND SERVICE ENTRANCE CONDUITS.
3. PROVIDE 4'X6"X8' LONG REINFORCED CONC. METER PEDESTAL, VERTICALLY INSTALLED WITH 3' BURIED. CT METER SOCKET FURNISHED BY UTIL. CO., INSTALLED BY E.C., MOUNT SOCKET SUCH THAT CENTER OF METER GLOBE WILL BE 5' AFG, UNLESS DIRECTED OTHERWISE BY DUKE.
4. PROVIDE CONCRETE PAD PER UTIL. CO. REQUIREMENTS. SEE DETAIL, OR PROVIDE UTILITY-PRE-APPROVED PRE-CAST PAD.
5. PORTABLE GENERATOR AND TEMPORARY CABLES BY OTHERS. SYSTEM IS ARRANGED PER NEC 702 AS AN OPTIONAL STANDBY SYSTEM, NON-SEPARATELY DERIVED.
6. NEUTRAL SHALL BE BONDED TO GROUND ONLY AT MTS, VIA A MAIN BONDING JUMPER - 2/0 CU OR OTHER EQUIVALENT MEANS PER NEC 250.

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No.	Date	Revision

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INTERIOR LIGHTING COMPLIANCE

PER 2023 FBC - ENERGY CONSERVATION, 8TH ED. - TABLE C405.3.2(2) SPACE-BY-SPACE METHOD

SPACE		CLASSIFICATION	AREA	ALLOW. W/SQFT	ALLOW. WATTS	INSTALLED
100	RECEPTION	LOBBY (OTHER)	834	0.84	701	454
102, 202	ELEVATOR	ELEC/MECH ROOM	104	0.43	45	60
103, 112, 113	OPEN OFFICE	OFFICE (OPEN PLAN)	2,134	0.61	1,302	1,268
104	OFFICE	OFFICE (ENCLOSED)	167	0.74	124	121
105	OFFICE	OFFICE (ENCLOSED)	167	0.74	124	121
106, 206	STAIR (NW)	STAIRWELL	430	0.49	211	188
107, 108	IT/ELEC/MECH, JAN	ELEC/MECH ROOM	162	0.43	70	52
109	HALLWAY	CORRIDOR (OTHERWISE)	89	0.41	36	30
110	WOMEN	RESTROOM (OTHERWISE)	64	0.63	40	30
111	MEN	RESTROOM (OTHERWISE)	57	0.63	36	30
114	OFFICE	OFFICE (ENCLOSED)	101	0.74	75	61
115	OFFICE	OFFICE (ENCLOSED)	101	0.74	75	61
116	OFFICE	OFFICE (ENCLOSED)	100	0.74	74	61
117	OFFICE	OFFICE (ENCLOSED)	117	0.74	87	79
118	MECH	ELEC/MECH ROOM	110	0.43	47	52
120	WAREHOUSE	WAREHOUSE STORAGE (SMALLER HAND CARRIED)	1,930	0.69	1,332	1,200
204	CONF	CONF/MTG/MULTIPURPOSE	697	0.97	676	546
205	DISPLAY ROOM	SALES AREA	255	1.05	268	238
206	HALLWAY	CORRIDOR (OTHERWISE)	201	0.41	82	91
207, 210	HALLWAYS	CORRIDOR (OTHERWISE)	321	0.41	132	121
208, 209	IT/ELEC/MECH, JAN	ELEC/MECH ROOM	153	0.43	66	52
211	UNISEX	RESTROOM (OTHERWISE)	72	0.63	45	40
212	UNISEX	RESTROOM (OTHERWISE)	73	0.63	46	40
213	TRAINING	GYM/FITNESS (EXERCISE)	583	0.9	525	298
214	HUDDLE	CONF/MTG/MULTIPURPOSE	104	0.97	101	61
215	CONF	CONF/MTG/MULTIPURPOSE	226	0.97	219	182
216	PHONE BOOTH	OFFICE (ENCLOSED)	47	0.74	35	30
218	HALLWAY	CORRIDOR (OTHERWISE)	96	0.41	39	61
219	MEN	RESTROOM (OTHERWISE)	52	0.63	33	30
220	WOMEN	RESTROOM (OTHERWISE)	51	0.63	32	30
221	MECH	ELEC/MECH ROOM	74	0.43	32	26
222	BREAKROOM	LOUNGE/BREAKROOM (OTHERWISE)	686	0.59	405	333
201, 203	HALL AND STAIR	STAIRWELL	250	0.49	123	132
223	OPEN OFFICE	OFFICE (OPEN PLAN)	507	0.61	309	318
224	FOCUS	OFFICE (ENCLOSED)	34	0.74	25	30
225	FOCUS	OFFICE (ENCLOSED)	33	0.74	24	30
		TOTALS (WATTS)			7,593	6,558

LIGHTING FIXTURE SCHEDULE

MARK	WATTS	LUMENS	CCT	DESCRIPTION
A2	30.3	2,761	3500K	2X2 LED LAY-IN. 0-10V DIMMABLE. (SEE NOTE 3.) SIGNIFY DAY-BRITE HP90 #HLS22GLR28L3SUDZT
A3	39.6	3,417	3500K	SIMILAR TO A2, EXCEPT FOR WATTS & LUMENS. (SEE NOTE 3.) SIGNIFY DAY-BRITE HP90 #HLS22GLR33L3SUDZT
A4	45.5	3,802	3500K	SIMILAR TO A2, EXCEPT FOR WATTS & LUMENS. (SEE NOTE 3.) SIGNIFY DAY-BRITE HP90 #HLS22GLR39L3SUDZT
AA3	40	3700	3500K	2X4 LED LAY-IN. 0-10V DIMMABLE. (SEE NOTE 3.) SIGNIFY DAY-BRITE HP90 #HLS24GLR33L3SUDZT
B	50	4,716	3500K	4' X 2' LINEAR PENDANT LIGHTING, 120V, DOWNLIGHT ONLY, 0-10V DIMMABLE. (**CONFIRM COLOR/FINISH & CEILING TYPE WITH ARCHITECT**) (SEE NOTE 3). FINELITE #HP-2-P-D-4'-VH-835-F-96LG-120-SC-FC-10%-FA50-**-FE-FB*
C	26	3000	3500K	4' LINEAR STRIP LIGHT FOR MECHANICAL ROOMS, FROSTED ACRYLIC LENS. SURFACE MOUNTED OR SUSPENDED AS APPLICABLE. SIGNIFY DAYBRITE# FSS430L835-UNV-DIM
F	20.0	1,491	3500K	24" PENDANT FIXTURE, 0-10V DIMMABLE, 50% OUTPUT LUMENS & WATTS. (SEE NOTE 3) TMS LIGHTING SIYA PENDANT, 50251 - 24 - L - 35K - *** - DIML (*CONFIRM CORD COLOR AND FINISHES WITH ARCHITECT*)
G	15	1,076	3500K	11.5" PENDANT FIXTURE, 120V, 0-10V DIMMABLE. (*CONFIRM COLOR/FINISH WITH ARCHITECT*). (SEE NOTE 3). TMS LIGHTING JUIN PENDANT #JUN-15LED-CRD-BC-35K-120-**
H	33	3,144	3500K	4' X 2' LINEAR PENDANT LIGHTING FOR RECEPTION AREA, 120V, DOWNLIGHT ONLY, 0-10V DIMMABLE. (**CONFIRM COLOR/FINISH & CEILING TYPE WITH ARCHITECT**) (SEE NOTE 3). FINELITE #HP-2-P-D-4'-VH-833-F-96LG-120-SC-FC-10%-FA50-**-FE-FB*
HE	33	3,144	3500K	SAME AS TYPE 'H', EXCEPT ADD EMERGENCY BATTERY AND DRIVER, TO AUTOMATICALLY ILLUMINATE UPON LOSS OF NORMAL CIRCUIT VOLTAGE.
J	30	4,000	5000K	ELEVATOR SHAFT FIXTURE. 4' FULLY ENCLOSED AND GASKETED, SURFACE MOUNTED, IMPACT RESISTANT LENS. H.E. WILLIAMS #96-4-L40/850-HIAFR
K	10	1,000	3000K	6" DIAM. SHOWER LIGHT FOR HARD CEILING, WET LOCATION RATED, NON-CONDUCTIVE DEAD-FRONT LENS. LIGHTOLIER BY SIGNIFY #6RN / PBR-SL-10-930-W-WH-Z10-U
L	150	21,000	4000K	WAREHOUSE SUSPENDED CIRCULAR HIGH-BAY LIGHT, DIE-CAST ALUM HOUSING, BLACK FINISH (FIELD ADJUSTABLE WATTAGE 200W TO 100W). SUSPEND AT HEIGHT EQUAL TO FAN BLADES. SESCO TGS #CHB-E-L-40-WD-U-D-B-LM
M	47	6,174	3500K	3' LONG WALL-MOUNTED FIXTURE FOR STAIRS, UP/DOWN LIGHT, FROSTED .125" THICK ACRYLIC LENS, INTERGRAL 10W EMERGENCY BACKUP, WHITE FINISH UNLESS DIRECTED OTHERWISE BY ARCHITECT. H.E. WILLIAMS #WMAUD-3-L30/835U/L30/835D-AF-EM/10W-DRVU/DRVD-UNV
N	17	1,500	3500K	6" DIAM. SHALLOW RECESSED DOWN LIGHT. H.E. WILLIAMS #6PR-TL-L15/835-DIM-UNV-LW-OF-CS-WET/CC-R
S	160	SEE CIVIL DWGS	SEE CIVIL DWGS	POLE-MOUNTED SITE LIGHTING FIXTURE. REFER TO CIVIL DRAWINGS FOR POLE AND FIXTURE SPECIFICATIONS. POLE AND FIXTURE SHALL BE SUBMITTED FOR CIVIL ENGINEER FOR REVIEW AND APPROVAL.
U	15	1,800	4000K	HIGH EAVE LIGHT, SURFACE MOUNTED, SUITABLE FOR WET LOCATION. BULLARD BOLLARDS #SPIA FLAT CEILING 190 GH1387.FGXO400EN 1387.HFX.O
V	17	1,500	4000K	EXTERIOR ENTRY LIGHT, SHALLOW RECESSED 6" DIAM DOWN LIGHT, SUITABLE FOR WET COVERED CEILING LOCATION, CLEAR SPECULAR REFLECTOR, STANDARD FLANGE, WIDE DISTRIBUTION, FLUSH LENS. REFER TO TC-EL/PC-EL DETAIL FOR REMOTE BACKUP EMERGENCY INVERTER. H.E. WILLIAMS #GPR-TL-L15/840-DIM-UNV-LW-OF-CS-WET/CC-R
X	N/A	N/A	N/A	EXIT SIGN, GREEN LETTERS, SELF-POWERED WITH RECHARGEABLE BATTERY UPON LOSS OF NORMAL VOLTAGE, THERMOPLASTIC HOUSING. PROVIDE WITH AUTOTEST. BEGHELLI #PX-G-SA-AT
Y	N/A	N/A	N/A	EMERGENCY LIGHT, 2 HEADS (7W LED MR16), WHITE THERMOPLASTIC HOUSING, SELF-POWERED WITH RECHARGEABLE BATTERY UPON LOSS OF NORMAL VOLTAGE. RATED FOR ON-CENTER SPACING OF AT LEAST 60' IN IDEAL CONDITIONS. BEGHELLI #XMR-S1-HO
Z	N/A	N/A	N/A	COMBINATION EXIT SIGN AND EMERGENCY LIGHTS, GREEN LETTERS, 2 HEADS, THERMOPLASTIC HOUSING. SELF-POWERED WITH RECHARGEABLE NI-CAD BATTERY UPON LOSS OF NORMAL VOLTAGE. PROVIDE WITH AUTOTEST. BEGHELLI #PCH-G-SA-AT

LIGHTING FIXTURE SCHEDULE NOTES:
1. FIXTURES SHALL HAVE 80 CRI (MIN.), UNLESS HIGHER CRI IS NOTED.
2. FIXTURES SHALL BE SUITABLE FOR CONNECTION TO 120V CIRCUITS, U.N.O.
3. FIXTURE MODELS REFERENCING THIS NOTE WERE SELECTED BY ARCHITECT OR OWNER; ALTERNATES FOR THIS FIXTURE SHALL BE SUBMITTED DIRECTLY TO ARCHITECT AND OWNER FOR PRE-APPROVAL AND SIGN-OFF, PRIOR TO ENGINEER REVIEW.
4. BATTERIES IN EMERGENCY AND EXIT FIXTURES, AND EMERGENCY DRIVERS AND INVERTERS SHALL BE RATED FOR 90 MINUTE MINIMUM DURATION.
5. FIXTURE SELECTIONS NOTED ABOVE ARE BASIS OF DESIGN SELECTIONS. PER OWNER DIRECTION: E.C. MAY SUBSTITUE WITH EQUAL FIXTURES FROM OTHER BRANDS; FIXTURES WILL BE SUBJECT TO OWNER AND A/E APPROVAL.
6. SUBMITTAL PACKAGE SHALL BE CLEARLY MARKED AND SUBMITTED TO ARCHITECT/ENGINEER TEAM AND OWNER.
7. OCCUPANCY SENSOR & SWITCH COVERS AND FACEPLATES SHALL BE WHITE, UNLESS OTHERWISE NOTED WITH DIFFERENT COLOR ON PLAN (SUCH AS IN RECEPTION AND TRAINING ROOM).

NEW 3-PHASE PANEL SCHEDULE — MDP

MLO (A) 600 | VOLTAGE 208Y/120 | PHASE WIRE 3PH 4W | INTERRUPT 22kAIC | ENCL TYPE 1
POLES 54 | MOUNTING SURFACE | B.O.D. SQ D I-LINE | LOCATION 1ST FLR ELEC | FED FROM MTS
REMARKS: DOOR-IN-DOOR COVER

PHASE VA

DESCRIPTION	BKR A/P	LOAD TYPE	CKT NO.	A	B	C	CKT NO.	LOAD TYPE	BKR A/P	DESCRIPTION
P3	100/3	V	1	4,375 9,137			2	V	150/3	P1
---	---	V	3		6,702 10,596		4	V	---	---
---	---	V	5			4,384 10,818	6	V	---	---
P2	200/3	V	7	19,719 0			8			SPACE
---	---	V	9		17,799 0		10			SPACE
---	---	V	11			13,719 0	12			SPACE
AHU-1-2	40/3	V	13	3,765 5,022			14	V	60/3	AHU-1-1
---	---	V	15		3,765 5,022		16	V	---	---
---	---	V	17			3,765 5,022	18	V	---	---
HP-1-2	45/3	M	19	3,588 4,020			20	M	50/3	HP-1-1
---	---	M	21		3,588 4,020		22	M	---	---
---	---	M	23			3,588 4,020	24	M	---	---
HP-2-1	45/3	M	25	3,588 3,588			26	M	45/3	HP-2-3
---	---	M	27		3,588 3,588		28	M	---	---
---	---	M	29			3,588 3,588	30	M	---	---
HP-2-2	30/2	M	31	1,533 7,128			32	M	90/3 ST	ELEV-1 (PUMP) (3)
---	---	M	33		1,533 7,128		34	M	---	---
REC - GENERATOR	20/1	R	35			180 7,128	36	M	---	---
REC - GENERATOR	30/1	G	37	1,200 0			38	M	---	--- (SHUNT TRIP)
EF-1-1	15/1	M	39		1,176 0		40			SPACE
BF-1	15/1	M	41			480 0	42			SPACE
SPACE			43	0 0			44			SPACE
SPACE			45		0 0		46			SPACE
SPACE			47			0 0	48			SPACE
SPD	30/3		49	0 0			50			SPACE
---	---		51		0 0		52			SPACE
---	---		53			0 0	54			SPACE
VA TOTAL EACH PHASE				66,663	68,505	60,280				

	CONNECTED	NEC FEEDER
VA LIGHTING	8,592	12,527
VA RECEPTACLE	36,720	23,360
VA MOTOR	87,246	92,592
VA GENERAL	53,890	53,890
VA W/ MULTIPLIER	9,000	11,250

NEC Feeder calc: Lighting per NEC 215.2 & 220.12, Receptacle per NEC 220.14 & 220.44, Motor per NEC 430.24.

	VA	AMPS
TOTAL CONNECTED	195,448	543
TOTAL NEC FEEDER	193,619	537

LOAD TYPES: L = LIGHTING; R = RECEPTACLE; M = MOTOR; G = GENERAL; S = SPECIAL; V = VARIED; * = NON CONCURRENT

NEW 3-PHASE PANEL SCHEDULE — P1

MLO (A) 150 | VOLTAGE 208Y/120 | PHASE WIRE 3PH 4W | INTERRUPT 10kAIC | ENCL TYPE 1
POLES 72 | MOUNTING SURFACE | B.O.D. SQ D NQ | LOCATION 1ST FLR ELEC | FED FROM MDP
REMARKS: DOOR-IN-DOOR COVER; UNSHOWN CIRCUITS (ABOVE 54) SHALL BE PROVIDED AS SPARE 20/1 BREAKERS

PHASE VA

DESCRIPTION	BKR A/P	LOAD TYPE	CKT NO.	A	B	C	CKT NO.	LOAD TYPE	BKR A/P	DESCRIPTION
LTG - WAREHOUSE	20/1	L	1	1,200 200			2	G	20/1	FACP (1)
LTG - OFFICES, MECH	20/1	V	3		748 0		4	G	20/1 L, R	FA BELL (1)
LTG - OPEN OFFICE	20/1	L	5			1,268 720	6	R	20/1	REC - ELEV SHAFT
LTG - RECEPTION	20/1	L	7	499 540			8	R	20/1	REC - FURN - 103
LTG - STAIRWELL	20/1	L	9		188 1,440		10	R	20/1	REC - FURN - 103
POLE LTG	20/1	L	11			480 720	12	R	20/1	REC - 104
LTG - EXT ENTRY	20/1	L	13	68 720			14	R	20/1	REC - 105
REC - 100	20/1	R	15		540 720		16	R	20/1	REC - 112 (GENERAL)
LTG - ELEV SHAFT	20/1	L	17			60 360	18	R	20/1	REC - 100 TV'S
LTG - ELEVATOR	15/1	L	19	30 360			20	R	20/1	REC - 100 TV'S
REC - EXTERIOR	20/1	R	21		180 180		22	R	20/1	REC - 118
REC & FAN - 108	20/1	V	23			410 1,200	24	G	20/1	COPY
REC - 110, 111	20/1	R	25	360 360			26	R	20/1	REC - 112
REC - FURN - 113	20/1	R	27		720 720		28	R	20/1	REC - 100 (GENERAL)
REC - 114	20/1	R	29			720 720	30	R	20/1	REC - 112 (GENERAL)
REC - 115	20/1	R	31	720 1,200			32	G	20/1	COFF - 112
REC - 116	20/1	R	33		720 1,200		34	G	20/1	COFF - 112
REC - 117	20/1	R	35			720 200	36	G	20/1	WATER COOLER
REC - 120	20/1	R	37	1,440 180			38	R	20/1	REC - 107
REC - FURN - 112	20/1	R	39		1,080 360		40	R	20/1	REC - IT - 107
REC - FURN - 112	20/1	R	41			1,080 360	42	R	20/1	REC - IT - 107
ELEV. SHUNT TRIP (1)	20/1 L,R		43	0 180			44	R	20/1	REC - IRRIGATION
SPARE	20/1		45		0 1,080		46	R	20/1	REC - FURN - 112
SPARE	20/1		47			0 1,080	48	R	20/1	REC - FURN - 112
SPD	30/3		49	0 1,080			50	R	20/1	REC - FURN - 112
---	---		51		0 720		52	R	20/1	REC - FURN - 112
---	---		53			0 720	54	R	20/1	REC - RECEPTION
(5) SPARES	20/1		55-71	9,137	10,596	10,818	56-72	20/1	SPARES (5)	

	CONNECTED	NEC FEEDER
VA LIGHTING	4,491	5,614
VA RECEPTACLE	21,960	15,980
VA MOTOR	100	125
VA GENERAL	4,000	4,000
VA W/ MULTIPLIER	0	0

NEC Feeder calc: Lighting per NEC 215.2 & 220.12, Receptacle per NEC 220.14 & 220.44, Motor per NEC 430.24.

	VA	AMPS
TOTAL CONNECTED	30,551	85
TOTAL NEC FEEDER	25,719	71

LOAD TYPES: L = LIGHTING; R = RECEPTACLE; M = MOTOR; G = GENERAL; S = SPECIAL; V = VARIED; * = NON CONCURRENT

NEW 3-PHASE PANEL SCHEDULE — P2

MLO (A) 200 | VOLTAGE 208Y/120 | PHASE WIRE 3PH 4W | INTERRUPT 10kAIC | ENCL TYPE 1
POLES 42 | MOUNTING SURFACE | B.O.D. SQ D NQ | LOCATION 2ND FLR ELEC | FED FROM MDP
REMARKS: DOOR-IN-DOOR COVER

PHASE VA

DESCRIPTION	BKR A/P	LOAD TYPE	CKT NO.	A	B	C	CKT NO.	LOAD TYPE	BKR A/P	DESCRIPTION
EXERCISE EQUIP	20/1	G	1	1,200 3,765			2	V	40/3 LOCK	AHU-2-1 (2)
EXERCISE EQUIP	20/1	G	3		1,200 3,765		4	V	---	---
EXERCISE EQUIP	20/1	G	5			1,200 3,765	6	V	---	---
EXERCISE EQUIP	20/1	G	7	1,200 1,488			8	V	30/3	AHU-2-2
RECS - EXERCISE	20/1	R	9		720 1,488		10	V	---	---
RECS - EXERCISE	20/1	R	11			720 1,488	12	V	---	---
EWC	20/1	M	13	500 3,765			14	V	40/3	AHU-2-3
RECS - RR	20/1	R	15		360 3,765		16	V	---	---
RP-1, EF-2-1, RECS	20/1	V	17			420 3,765	18	V	---	---
RECS - 216, 219, 220 221	20/1	R	19	900 4,500			20	S	60/2 LOCK	EWH-1 (2)
REF - BRK RM	20/1	G	21		800 4,500		22	S	---	---
REF - BRK RM	20/1	G	23			800 0	24			SPACE
COFF - BRK RM	20/1	G	25	1,200 0			26			SPACE
COFF - BRK RM	20/1	G	27		1,200 0		28			SPACE
(4) MW - BRK RM	20/1 GFI	G	29			1,200 0	30			SPACE
(4) MW - BRK RM	20/1 GFI	G	31	1,200 0			32			SPACE
(4) GARBAGE DISP*	20/1 GFI	M	33		0 0		34			SPACE
RECS - ISLAND BRK RM	20/1	R	35			360 0	36			SPACE
SPD	30/3		37	0 0			38		20/1	SPARE
---	---		39		0 0		40		20/1	SPARE
---	---		41			0 0	42		20/1	SPARE
VA TOTAL EACH PHASE				19,719	17,799	13,719				

	CONNECTED	NEC FEEDER
VA LIGHTING	0	0
VA RECEPTACLE	3,420	3,420
VA MOTOR	9,056	10,010
VA GENERAL	29,760	29,760
VA W/ MULTIPLIER	9,000	11,250

NEC Feeder calc: Lighting per NEC 215.2 & 220.12, Receptacle per NEC 220.14 & 220.44, Motor per NEC 430.24.

	VA	AMPS
TOTAL CONNECTED	51,236	142
TOTAL NEC FEEDER	54,440	151

LOAD TYPES: L = LIGHTING; R = RECEPTACLE; M = MOTOR; G = GENERAL; S = SPECIAL; V = VARIED; * = NON CONCURRENT

NEW 3-PHASE PANEL SCHEDULE — P3

MLO (A) 100 | VOLTAGE 208Y/120 | PHASE WIRE 3PH 4W | INTERRUPT 10kAIC | ENCL TYPE 1
POLES 42 | MOUNTING SURFACE | B.O.D. SQ D NQ | LOCATION 2ND FLR ELEC | FED FROM MDP
REMARKS: DOOR-IN-DOOR COVER

PHASE VA

DESCRIPTION	BKR A/P	LOAD TYPE	CKT NO.	A	B	C	CKT NO.	LOAD TYPE	BKR A/P	DESCRIPTION
LTG - BREAKRM OPEN OFFICE	20/1	L	1	905 200			2	G	20/1 L,R	F/A NAC PANEL (1)
LTG - TRAINING & RESTROOMS	20/1	L	3		1,002 180		4	R	20/1	REC - 208
LTG - DISPLAY & LARGE CONF.	20/1	L	5			784 360	6	R	20/1	REC - I.T. - 208
LTG - HIGH EAVE	20/1	L	7	210 360			8	R	20/1	REC - I.T. - 208
LOGOS	20/1	L	9		1,200 900		10	R	20/1	REC - HALL
SPARE	20/1		11			0 900	12	R	20/1	REC - 205
SPARE	20/1		13	0 360			14	R	20/1	REC - 205
REC - 224, 225	20/1	R	15		1,440 900		16	R	20/1	REC - 204
REC - 222	20/1	R	17			540 1,080	18	R	20/1	REC - 204
REC - 223	20/1	R	19	720 720			20	R	20/1	REC - 204
SPACE			21		0 1,080		22	R	20/1	REC - 214
SPACE			23			0 720	24	R	20/1	REC - 215
SPACE			25	0 900			26	R	20/1	REC - 215
SPACE			27		0 0		28		20/1	SPARE
SPACE			29			0 0	30		20/1	SPARE
SPARE	20/1		31	0 0			32		20/1	SPARE
SPARE	20/1		33		0 0		34		20/1	SPARE
SPARE	20/1		35			0 0	36		20/1	SPARE
SPD	30/3		37	0 0			38			SPACE
---	---		39		0 0		40			SPACE
---	---		41			0 0	42			SPACE
VA TOTAL EACH PHASE				4,375	6,702	4,384				

	CONNECTED	NEC FEEDER
VA LIGHTING	4,101	5,126
VA RECEPTACLE	11,160	10,580
VA MOTOR	0	0
VA GENERAL	200	200
VA W/ MULTIPLIER	0	0

NEC Feeder calc: Lighting per NEC 215.2 & 220.12, Receptacle per NEC 220.14 & 220.44, Motor per NEC 430.24.

	VA	AMPS
TOTAL CONNECTED	15,461	43
TOTAL NEC FEEDER	15,906	44

LOAD TYPES: L = LIGHTING; R = RECEPTACLE; M = MOTOR; G = GENERAL; S = SPECIAL; V = VARIED; * = NON CONCURRENT

SHEET NOTES

A. BRANCH BREAKERS NOTED WITH "GFI" SHALL BE PROVIDED WITH INTEGRAL GFCI PROTECTION FOR PERSONNEL.

B. BRANCH BREAKERS NOTED WITH "LOCK" SHALL BE PROVIDED WITH NEC 110.25 COMPLIANT LOCK-OFF PROVISIONS.

C. CONTRACTOR MAY BASIS OF DESIGN, OR OTHER ACCEPTED MANUFACTURERS PER SPECIFICATIONS.

(#) SHEET KEYNOTES

1. PROVIDE BREAKER WITH RED HANDLE AND LOCK-ON FEATURE (FOR FIRE ALARM AND ASSOCIATED LIFE SAFETY CIRCUITS).
2. PROVIDE BREAKER WITH LOCK-OPEN ACCESSORY WHICH COMPLIES WITH NEC 110.25.
3. PROVIDE BREAKER WITH SHUNT TRIP FEATURE.
4. PROVIDE BREAKER WITH GFCI PROTECTION.
5. PANEL SHALL BE PROVIDED WITH TOTAL SPACES AS NOTED AT TOP OF PANEL. PROVIDE SPARES FOR ALL CIRCUITS ABOVE #54.

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CA PROJ NO. 2503

CHAD J. FRALICK LICENSE No 73811 STATE OF FLORIDA PROFESSIONAL ENGINEER

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BALDWIN ROOFING CO.
ROOFING CO
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE:	05/30/2025
DESIGNED BY:	CJF
DRAWN BY:	CJF
CHECKED BY:	CJF

DRAWING TITLE:
LIGHTING FIXTURE & PANEL SCHEDULES

SHEET NO:
E401

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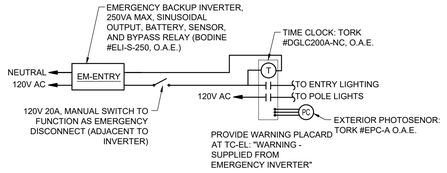
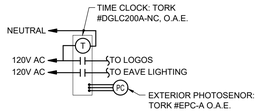
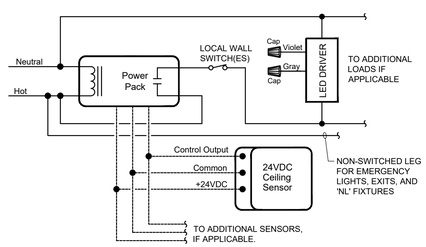


EC SHALL PROGRAM TIME CLOCK TO COMPLY WITH FLORIDA BUILDING CODE AND LOCAL AHJ REQUIREMENTS.

6 TC-EL/PC-EL CONTROL DIAGRAM
(EXTERIOR LIGHTING)

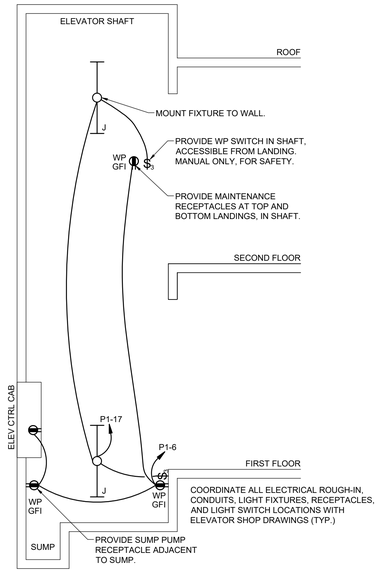


7 TC-LL CONTROL DIAGRAM
(LOGO AND EAVE LIGHTING)

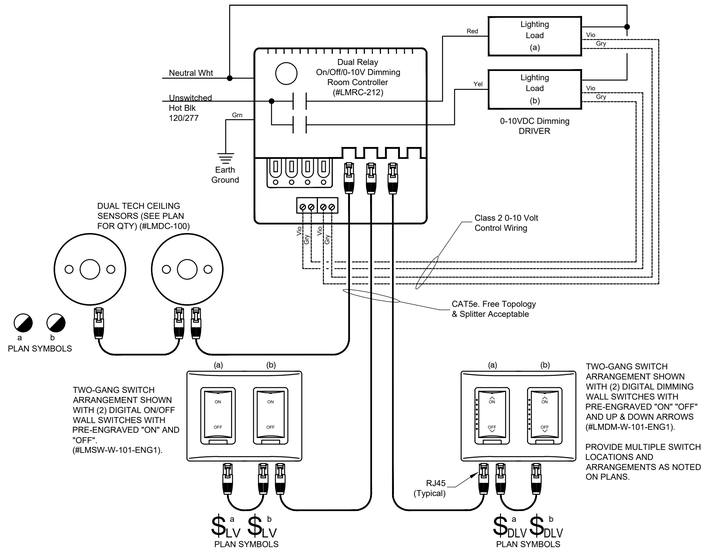


SCHEMATIC NOTES:
1. BASIS OF DESIGN MODEL NUMBERS (WATTSTOPPER):
   1.1. DUAL TECHNOLOGY (SONAR AND PASSIVE INFRARED) CEILING SENSOR: DT-300
   1.2. 24VDC POWER PACK: BZ-200
2. ISOLATE AND CAP 0-10V LED DRIVER CONTROL LEADS (IF PRESENT) TO ACCOMPLISH 100% LIGHT OUTPUT (CONFIRM WITH DRIVER MANUFACTURER WIRING DIAGRAM).
3. CONFIGURE SETTINGS FOR "AUTO-ON", OPERATION.
4. SET SENSOR "AUTO-OFF" TIME DELAY SETTING FOR 20 MINUTES.
5. WHITE DEVICES AND FACEPLATES, UNLESS DIRECTED OTHERWISE BY ARCHITECT OR OWNER.
6. SEE PLAN FOR SWITCH AND SENSOR QUANTITIES.

8 TYPICAL NON-DIMMING CEILING SENSOR SCHEMATIC
(MAY BE USED IN STAIR)

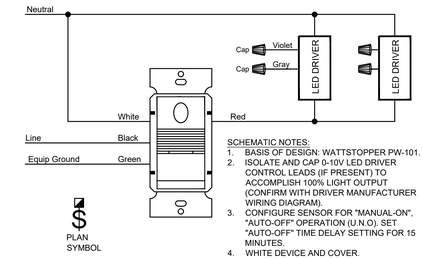


4 ELEVATOR SHAFT LIGHTING DETAIL
N.T.S.



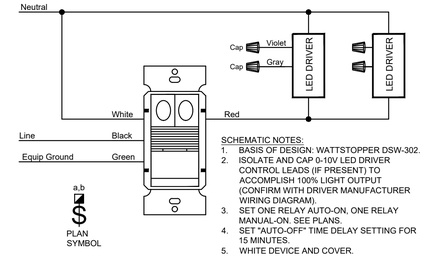
SCHEMATIC NOTES:
1. BASIS OF DESIGN MODEL NUMBERS NOTED ABOVE ARE WATTSTOPPER.
2. SET SENSOR "AUTO-OFF" TIME DELAY SETTING FOR 20 MINUTES.
3. AUTO ON CONTROL SHALL BE CONFIGURED PER FL BLDG CODE BASED ON TYPE OF SPACE.
4. ROOM CONTROLLER LOCATION SHALL BE FIELD COORDINATED BY EC.
5. MULTI-BUTTON SINGLE GANG SWITCHES ALSO ACCEPTABLE IF REQUIRED CONTROL FUNCTIONALITY IS PROVIDED.

5 DIMMING & CEILING SENSORS SCHEMATIC



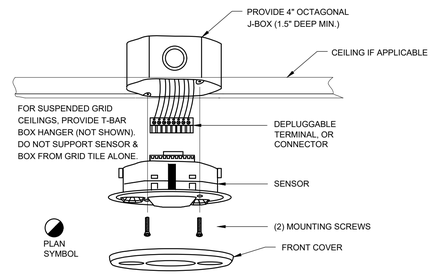
SCHEMATIC NOTES:
1. BASIS OF DESIGN: WATTSTOPPER PW-101.
2. ISOLATE AND CAP 0-10V LED DRIVER CONTROL LEADS (IF PRESENT) TO ACCOMPLISH 100% LIGHT OUTPUT (CONFIRM WITH DRIVER MANUFACTURER WIRING DIAGRAM).
3. CONFIGURE SENSOR FOR "MANUAL-ON", "AUTO-OFF" OPERATION (U.N.O). SET "AUTO-OFF" TIME DELAY SETTING FOR 15 MINUTES.
4. WHITE DEVICE AND COVER.

1 TYPICAL PIR WALL SWITCH SCHEMATIC
(ON/OFF NON-DIMMING)



SCHEMATIC NOTES:
1. BASIS OF DESIGN: WATTSTOPPER DSW-302.
2. ISOLATE AND CAP 0-10V LED DRIVER CONTROL LEADS (IF PRESENT) TO ACCOMPLISH 100% LIGHT OUTPUT (CONFIRM WITH DRIVER MANUFACTURER WIRING DIAGRAM).
3. SET ONE RELAY AUTO-ON, ONE RELAY MANUAL-ON. SEE PLANS.
4. SET "AUTO-OFF" TIME DELAY SETTING FOR 15 MINUTES.
5. WHITE DEVICE AND COVER.

2 TYPICAL DUAL-TECH 2-BUTTON WALL SWITCH SCHEMATIC (ON/OFF NON-DIMMING, APPLIES TO RESTROOMS WITH SEPARATELY SWITCHED SHOWER LIGHT)



3 TYPICAL CEILING SENSOR MOUNTING

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE:	05/30/2025
DESIGNED BY:	CJF
DRAWN BY:	CJF
CHECKED BY:	CJF

DRAWING TITLE:
LIGHTING DETAILS

SHEET NO:
E501

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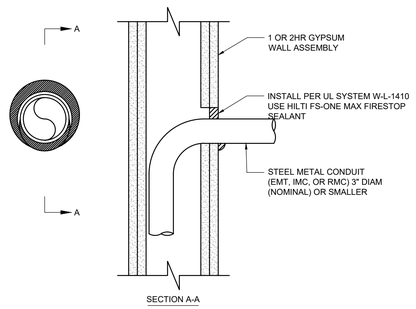
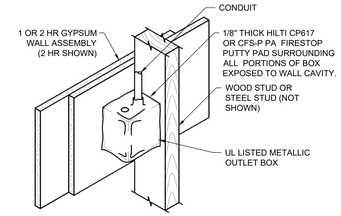
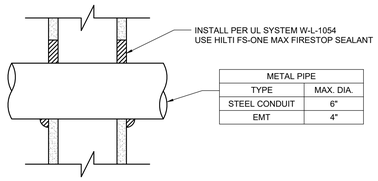


8d METAL PIPE MEMBRANE PENETRATION THROUGH RATED WALL ASSEMBLY

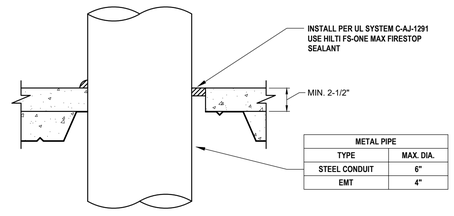


8a METALLIC BOX IN RATED WALL



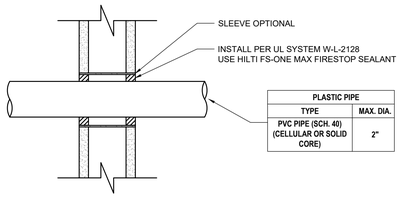
METAL PIPE	
TYPE	MAX. DIA.
STEEL CONDUIT	6"
EMT	4"

8e METAL PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)



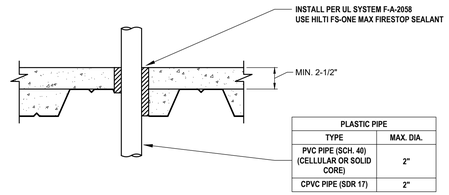
METAL PIPE	
TYPE	MAX. DIA.
STEEL CONDUIT	6"
EMT	4"

8b METAL PIPE THROUGH CONCRETE OVER METAL DECKING (2-HR.)



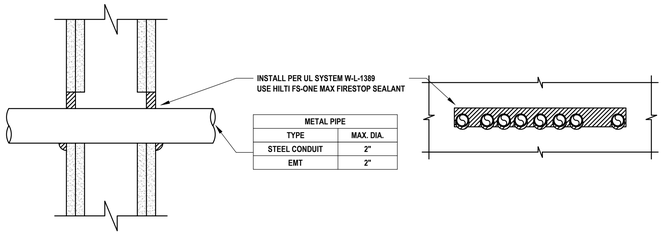
PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	2"

8f PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)



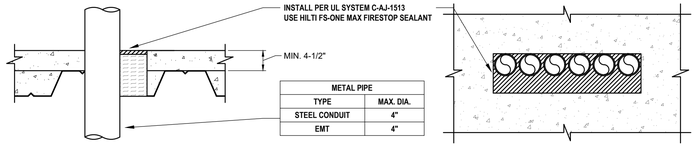
PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	2"
CPVC PIPE (SDR 17)	2"

8c PLASTIC PIPE THROUGH CONCRETE OVER METAL DECKING (2-HR)



METAL PIPE	
TYPE	MAX. DIA.
STEEL CONDUIT	2"
EMT	2"

8g MULTIPLE METAL PIPES THROUGH GYPSUM WALL ASSEMBLY (1- OR 2-HR.)

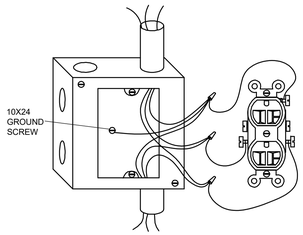


METAL PIPE	
TYPE	MAX. DIA.
STEEL CONDUIT	4"
EMT	4"

8h MULTIPLE METAL PIPES THROUGH CONCRETE OVER METAL DECKING (2-HR.)

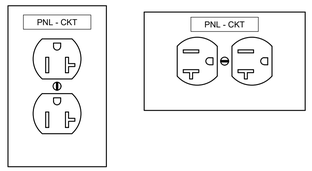
8 TYPICAL FIRESTOPPING DETAILS FOR ELECTRICAL PENETRATIONS

NOTE: Details above are not to scale. Firestopping details shown are typical details, containing general information only. Always refer to the full UL system detail for complete system requirements. If field conditions do not match requirements of details, approved alternate details shall be utilized.



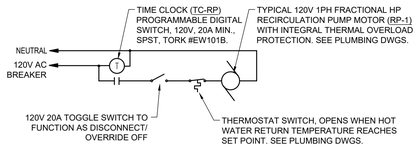
1. NEUTRAL CONDUCTORS SHALL BE CONNECTED INDEPENDENTLY OF THE DEVICE AND PIGTAILED TO THE DEVICE.
2. HOT CONDUCTORS SHALL BE CONNECTED INDEPENDENTLY OF THE DEVICE AND PIGTAILED TO THE DEVICE.
3. UNUSED SCREW TERMINALS ON DEVICE SHALL BE TIGHTENED PRIOR TO INSTALLATION INTO OUTLET BOX.
4. INSTALL SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. CONDUCTOR SHALL BE CONNECTED TO CIRCUIT EQUIPMENT GROUNDING CONDUCTOR AND BONDED TO OUTLET BOX.

4 TYPICAL OUTLET WIRING DETAIL

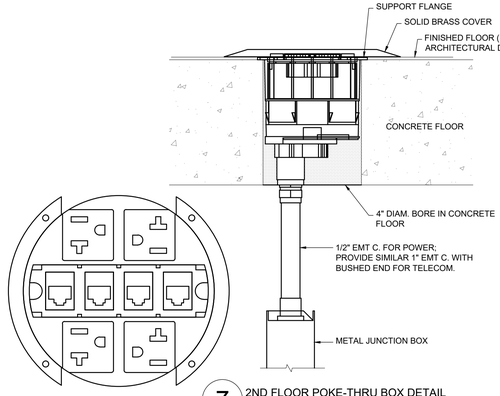


RECEPTACLES SHALL BE INSTALLED WITH GROUND PIN UP (FOR VERTICALLY ORIENTED, WALL-MOUNTED DEVICES) OR TO THE RIGHT (FOR HORIZONTALLY ORIENTED, WALL-MOUNTED DEVICES. PROVIDE ADHESIVE, MACHINE-PRINTED CIRCUIT LABEL AT TOP CENTER OF FACEPLATE INDICATING SOURCE PANEL NAME AND CIRCUIT NUMBER.

5 TYPICAL RECEPTACLE DETAIL



6 HOT WATER RECIRCULATION PUMP CONTROL DIAGRAM



POKE THRU DETAIL NOTES:

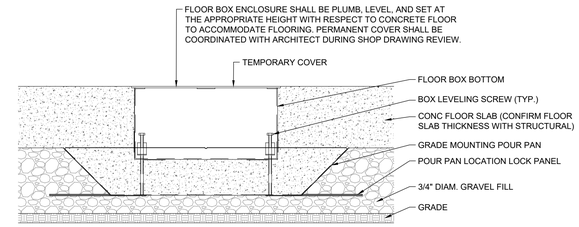
1. FLOOR BOX SHALL BE UL LISTED AND RATED FOR USE IN 2HR. FIRE-RATED CONCRETE FLOORS.
2. MAIN BODY SHALL CONSIST OF A DIE CAST ZINC MOUNTING FRAME, INTUMESCENT FIRE-STOP BLOCK, STAINLESS STEEL RETAINER CLIPS, GALVANIZED STEEL BOTTOM PLATE, AND CAST IRON CONDUIT HUBS.
3. FLANGE AND LID SHALL BE SOLID BRASS. COVER SHALL HAVE A BRUSHED AND LACQUERED FINISH.
4. FLOOR BOX SHALL ACCOMMODATE UP TO (2) 20A DUPLEX-RECEPTACLES AND (4) TELECOMM PORTS. SEPARATION OF SERVICES SHALL BE MAINTAINED THROUGH OUT ASSEMBLY.
5. BASIS OF DESIGN: THOMAS AND BETTS STEEL CITY FPT4 SERIES FLUSH POKE THROUGH WITH SOLID BRASS COVER.

7 2ND FLOOR POKE-THRU BOX DETAIL

N.T.S. (DETAIL APPLIES TO ALL 2ST FLR IN-FLOOR BOXES)

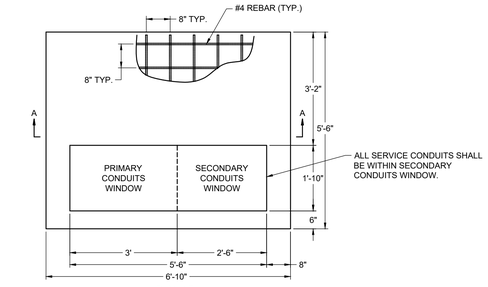
NOTE: MOUNT SPD DEVICE IN A LOCATION TO MAINTAIN ALL LEADS AS SHORT AS POSSIBLE. (18" MAX.) SPD'S PROVIDED AS INTEGRAL PART OF PANELBOARD (BUS MOUNTED TYPE) ARE ALSO ACCEPTABLE.

1 REMOTE-MOUNT SPD DETAIL



2 SLAB-ON GRADE FLOOR BOX INSTALL DETAIL

N.T.S. (DETAIL APPLIES TO ALL 1ST FLR IN-FLOOR BOXES)



UTILITY TRANSFORMER PAD DETAIL NOTES (300KVA AND BELOW):

E.C. MAY PROVIDE CAST-IN-PLACE OR PRE-CAST PAD. COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION TO CONFIRM PAD REQUIREMENTS AND PRIMARY CONDUIT REQUIREMENTS.

1. INSTALL CONDUIT END BELLS WHERE CABLES EXIT CONDUITS IN THE PRIMARY AND SECONDARY COMPARTMENTS OF THE TRANSFORMER.
2. E.C. SHALL INSTALL PRIMARY CONDUITS AS CLOSE TO THE CENTER OF THE DESIGNATED PRIMARY SIDE OF THE WINDOW AS PRACTICAL.
3. CONCRETE MIX SHALL MEET THE FOLLOWING REQUIREMENTS:
   - 3.1. MIN. 28-DAY COMPRESSIVE STRENGTH OF 3,000PSI
   - 3.2. MAX. WATER/CEMENT RATIO OF 0.50
   - 3.3. MAX. SLUMP OF 4"
   - 3.4. AIR-ENTRAINMENT CONTENT BETWEEN 4% AND 8%
4. CONCRETE SHALL BE AFFORDED ADEQUATE CURE FOR A MIN. OF 7 DAYS.
5. PAD SHALL BE SUPPORTED ON A SUB-BASE OF SAND, GRAVEL, OR CRUSHED STONE. THE GRANULAR SUB-BASE IS TO BE A MIN. OF 4" THICK AND SHALL BE COMPACTED WITH A VIBRATORY COMPACTOR.
6. DAMPEN THE SUB-BASE PRIOR TO CONCRETE PLACEMENT. AT THE TIME OF PLACEMENT, THE SUB-BASE SHALL NOT CONTAIN STANDING WATER.
7. THE TOP OF THE CONCRETE PAD MUST BE STEEL-TROWELED AND COMPLETELY SMOOTH AND LEVEL TO PREVENT "GAPS" BETWEEN THE TRANSFORMER AND THE SURFACE OF THE CONCRETE PAD.
8. THIS DETAIL IS BASIS OF DESIGN. CONFIRM FINAL REQUIREMENTS, DIMENSIONS, AND INSPECTION REQUIREMENTS WITH UTIL. CO. AT TIME OF CONSTRUCTION.

3 DUKE ENERGY ≤ 300 KVA TRANSFORMER PAD DETAIL

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POWER DETAILS

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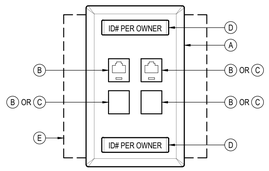
E502



TELECOM OUTLET

(A) COMMUNICATIONS FACEPLATE, 4-PORT, WHITE COLOR, WITH LABEL WINDOWS. (PANDUIT NETKEY #NK4FIWY)

(B) SNAP-IN 8-PIN MODULAR PUNCHDOWN JACK ASSEMBLY, CAT 6, WHITE COLOR, T568B PIN ASSIGNMENTS (PANDUIT NETKEY #NK688MWH). SEE PLANS FOR QUANTITY OF CABLES (AND COUPLERS) AT EACH OUTLET LOCATION.

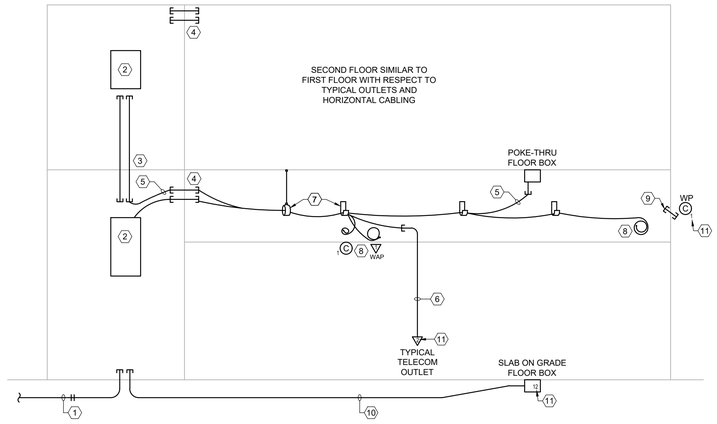
(C) SNAP-IN BLANK TAB MODULE, WHITE (PANDUIT NETKEY #NKBMWH-X). EACH UNUSED PORT ON THE 4-PORT FACEPLATE SHALL BE PROVIDED WITH BLANK TAB, AS APPLICABLE.

(D) COMMUNICATIONS OUTLET IDENTIFIER ON LASER PRINTED INSERT UNDER FACTORY PLASTIC COVER. COORD. WITH OWNER FOR EXACT NOMENCLATURE.

(E) BACKBOX SHALL BE 4" SQUARE 2-1/8" DEEP WITH SINGLE-GANG MUD RING.

MODEL NUMBERS AND COLORS ABOVE ARE BASIS OF DESIGN.

3 TELECOM OUTLET DETAILS (CAT6)



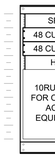
1 TELECOM RISER DIAGRAM

EQUIPMENT RACK ABBREVIATIONS

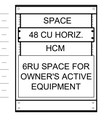
48 CU HORIZ	2RU 48-PORT CAT6 COPPER HORIZONTAL CABLE PATCH PANEL (PANDUIT #DP48688TGY)
HCM	2RU HORIZONTAL CABLE MANAGEMENT (PANDUIT #PZCHSM2)

RACK DETAIL NOTES (FIRST AND SECOND FLOOR):

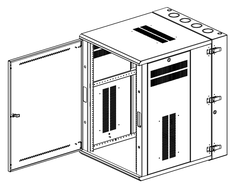
1. BY OTHERS: INCOMING SERVICE CABLE, FIBER BOXES, BACKBONE CABLE, NETWORK SWITCHES, ROUTERS, MODEM, AND PATCH CABLES.
2. E.C. SHALL PROVIDE RACKS, CABLE MANAGEMENT ACCESSORIES, PATCH PANELS, HORIZONTAL CABLES, AND SHALL MAKE ALL FINAL TERMINATIONS OF HORIZONTAL CABLES TO PATCH PANELS AND TELECOM OUTLETS. BASIS OF DESIGN IS PANDUIT.
3. I.T. ROOM RACK DETAILS ARE BASIS OF DESIGN. E.C. SHALL SUBMIT RACK LAYOUT DRAWINGS FOR A/E AND OWNER'S REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.
4. RACK DOOR AND CABINET SWING DIRECTIONS SHALL BE FIELD-COORDINATED.

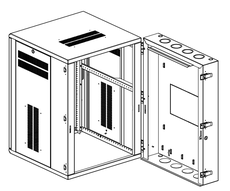


1ST FLOOR
18RU WALL CABINET
PANDUIT #PZWMC18,
OR SIMILAR.



2ND FLOOR
12RU WALL CABINET
PANDUIT #PZWMC12,
OR SIMILAR.





2 I.T. RACK DETAILS

SHEET NOTES

A. ALL TELECOM CONDUITS AND SLEEVES SHALL BE PROVIDED WITH NON-METALLIC BUSHINGS.

B. HORIZONTAL CABLING SHALL BE CAT6 PLENUM RATED, WITH BLUE OUTER JACKET UNLESS DIRECTED OTHERWISE BY OWNER.

(#) SHEET KEYNOTES

1. PROVIDE (2) 2"C. WITH PULL STRING FOR INCOMING TELECOM.
2. RACK PER DETAIL. TERMINATE ALL HORIZONTAL CABLING TO BACK OF PATCH PANELS IN RACK.
3. PROVIDE (2) 4" SLEEVES THRU FLOOR, EXTENDING FROM 9" ABOVE FIRST FLOOR TO 48" ABOVE SECOND FLOOR, FOR ROUTING OF CABLES BETWEEN FLOORS.
4. PROVIDE 4" SLEEVES THRU WALL, 12" BEYOND FACE OF WALL ON BOTH SIDES. SEE PLAN FOR QUANTITIES AND LOCATIONS.
5. FLOOR BOXES ON 2ND FLOOR SHALL ROUTE TELECOM CABLES TO 2ND FLOOR RACK.
6. 1"C. MIN. FOR TYPICAL TELECOM OUTLETS. PROVIDE LARGER CONDUIT FOR MORE THAN 6 CABLES. STUB OUT 6" MIN. ABOVE CEILING.
7. SUPPORT CABLES ABOVE CEILING VIA LOOPS OR J-HOOKS AT INTERVALS NOT TO EXCEED 5' (UNLESS SMALLER INTERVAL RECOMMENDED BY CABLE MANUFACTURER OR SUPPORT HARDWARE).
8. PROVIDE 6' SPARE LENGTH, COILED ABOVE CEILING WITH RJ45 TERMINATION. TYPICAL FOR WIRELESS ACCESS POINTS (WAPS) AND CAMERAS. CAMERAS AND WAPS BY OTHERS.
9. FOR EXTERIOR CAMERA LOCATIONS PROVIDE CONDUIT SLEEVE THRU WALL FROM INTERIOR SPACE ABOVE CEILING TO EXTERIOR. COORDINATE ROUGH-IN LOCATIONS WITH OWNER AND OWNER'S VENDOR. SLEEVE SHALL SLOPE TOWARDS EXTERIOR.
10. MAX CAT6 CABLES PER CONDUIT SIZE:
    - 10.1. 1"C. - 6 CABLES
    - 10.2. 1-1/4"C. - 10 CABLES
    - 10.3. 1-1/2"C. - 15 CABLES
    - 10.4. IF MORE NEEDED, USE MULTIPLE CONDUITS.
11. SEE FLOOR PLAN FOR NUMBER OF CABLES PER LOCATION.

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CHECKED BY:	CJF

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SYSTEMS DETAILS

SHEET NO:
E503

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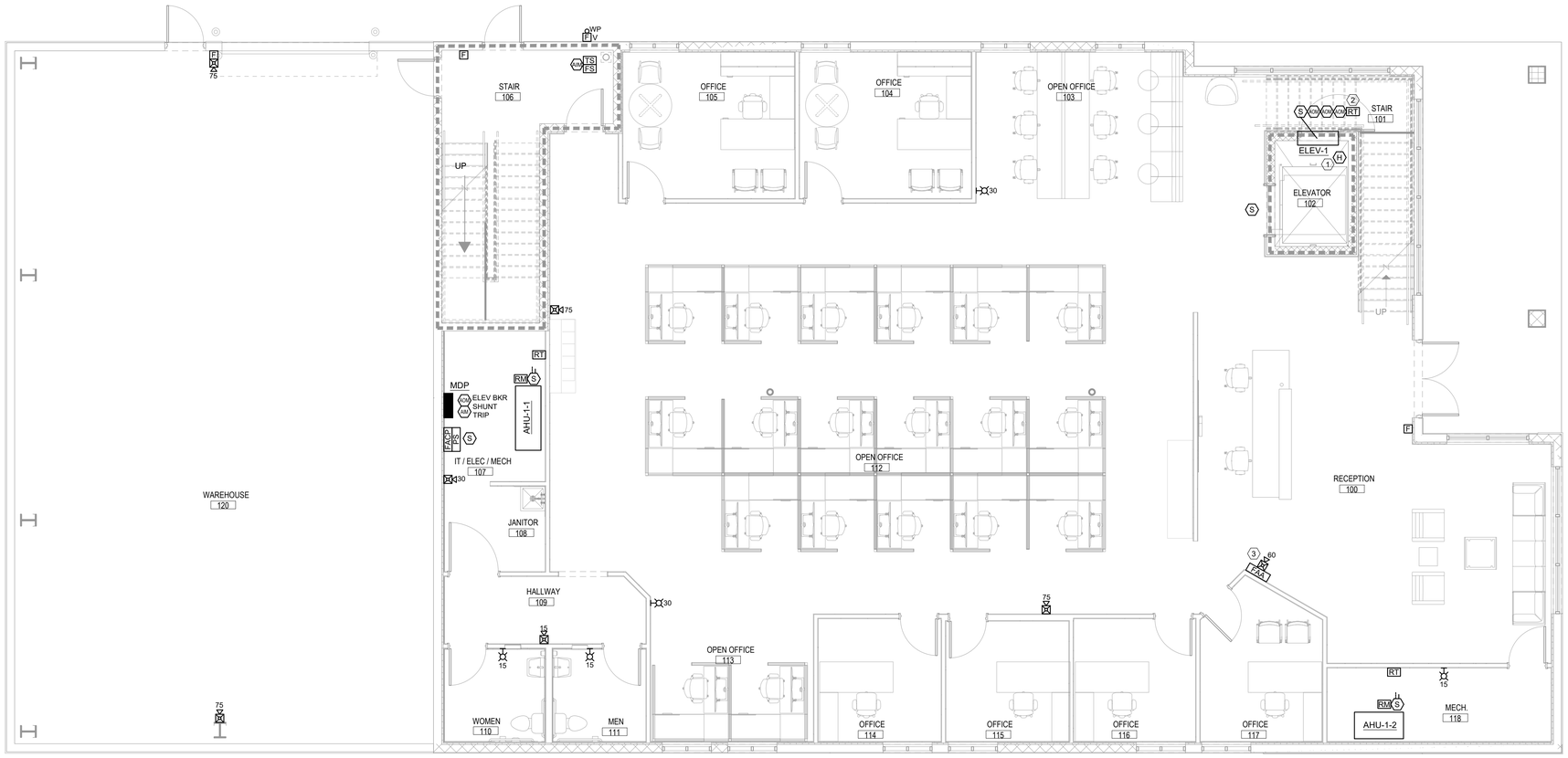

FIRE ALARM PLAN - FIRST FLOOR

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

SHEET NOTES

A. NOT USED THIS SHEET.

SHEET KEYNOTES

1. PROVIDE LOWER-TEMP HEAT DETECTOR ADJACENT TO SPRINKLER HEAD, TO ACTIVATE PRIOR TO SPRINKLER FOR ELEVATOR RECALL.
2. PROVIDE REMOTE TEST STATION FOR SHAFT DETECTORS.
3. LOCATE ITEMS NEAR WALL CORNER TO RESERVE OPEN WALL SPACE FOR FUTURE ARTWORK.

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FIRE ALARM PLAN FIRST FLOOR

SHEET NO:
FA201

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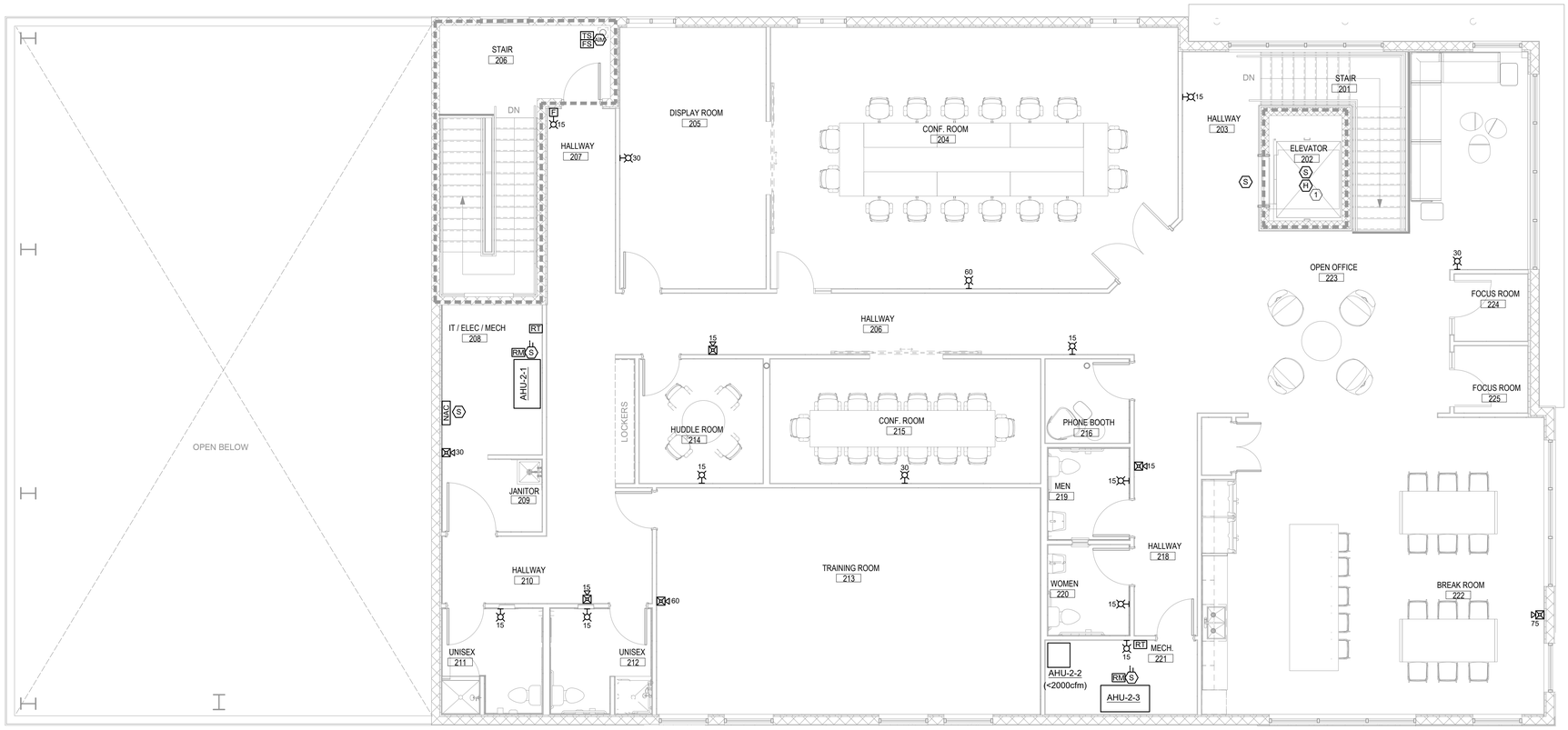

FIRE ALARM PLAN - SECOND FLOOR

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

SHEET NOTES

A. NOT USED THIS SHEET.

SHEET KEYNOTES

1. PROVIDE LOWER-TEMP HEAT DETECTOR ADJACENT TO SPRINKLER HEAD, TO ACTIVATE PRIOR TO SPRINKLER FOR ELEVATOR SHUNT TRIP.

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DRAWING TITLE:
FIRE ALARM PLAN SECOND FLOOR

SHEET NO:
FA202

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MINIMUM FIRE ALARM SYSTEM CRITERIA:

61G15-32.008 Design of Fire Alarms, Signaling Systems, and Control Systems.

(1) Fire alarms and detection systems include fire protection supervision, emergency alarm circuits, activation of life safety system controls and remote signaling of emergency conditions. Items to be considered in the design or analysis of fire alarm and detection systems are, as applicable to the particular project: occupancy and classification, monitoring, control and communication, cabling and supervision requirements, installation requirements, interoperability and performance requirements.

(2) The design specifications shall be based on the Florida Building Code, the Florida Fire Prevention Code, or as required by the local authority having jurisdiction. The Florida Building Code and the Florida Fire Prevention Code are incorporated by reference in Rule 61G15-18.011, F.A.C.

(3) For Engineering Documents pertaining to Fire Protection Systems exempted by the threshold requirements for mandatory use of professional engineering services, the Engineer of Record shall determine the level of detail shown on plans for a Fire Protection system. All such plans shall include a disclaimer stating the Fire Protection system is exempt from professional engineering services and shall provide a clear understanding of the minimum system requirements expected to be installed by the F/A contractor and permitted by the authority having jurisdiction (AHJ). In the event the Engineer of Record provides more information and direction than is minimally required, he or she shall be held responsible for the technical accuracy of the work in accordance with applicable codes, standards, and sound engineering principles. - REFER TO E001, FA201, FA202 & FA301 FOR ADDITIONAL INFORMATION.

(4) To ensure minimum design quality of Fire Alarm and Detection Systems Engineering Documents, said documents shall include as a minimum the following information when applicable:

(a) The documents shall be clear, with a symbols legend, system riser diagram showing all initiation and notification components, and cabling requirements. The documents shall indicate locations where fire ratings are required as determined by the system's survivability requirements, and shall identify the general occupancy of the protected property and each room and area unless it is clear from features shown. - REFER TO E001, FA201, FA202, & FA301.

(b) Locate initiation and notification devices and connections to related systems on the floor plans and sections when needed for clarity. Related systems include elevator controls, smoke control systems, dampers, door release, any other systems or elements directly or indirectly controlled or monitored. - REFER TO FA201, FA202, & FA301.

(c) Strobe intensity and speaker output ratings for all notification devices. - STROBES AND HORNS PROVIDED, SEE PLANS. SPEAKERS NOT REQUIRED.

(d) Identify the Class of circuits as listed in NFPA 72, which is contained within and incorporated into the Florida Fire Prevention Code. - REFER TO FA301 FIRE ALARM RISER. NON-REDUNDANT CLASS B, UNLESS NOTED OTHERWISE ON PLANS.

(e) Identify the functions required by the alarm and control systems including the transmission of emergency signals being monitored or annunciated. - REFER TO FA301 FIRE ALARM MATRIX.

(f) Indicate whether the fire alarm is conventional zoned or digital addressable, and indicate all zoning. - REFER TO FA301 FIRE ALARM RISER.

(g) Locate surge protective devices and required protective features. - REFER TO SHEET FA301 FIRE ALARM RISER.

(h) Identify and locate system devices that are subject to environmental factors, and indicate requirements for the protection of equipment from temperature, humidity or corrosive atmospheres, including coastal salt air. - REFER TO FA201 & FA202 PLANS.

(i) The documents shall include a site plan of the immediate area around the protected building, structure or equipment when alarm devices are required outside the structure. - REFER TO SHEET FA201 FOR EXTERIOR SURROUNDINGS, INCLUDING EXTERIOR BELL LOCATION.

(j) In buildings where smoke detection will be obstructed by walls, beams or ceiling features, the Engineer of Record shall provide applicable design and details to direct the installer to mitigate the obstructions. In buildings with smoke detection under a pitched roof, the plans shall indicate the roof pitch and a building section shall be provided as part of the Engineering Design Documents. - NOT APPLICABLE.

(k) For fire detection systems utilizing smoke detection in situations where smoke stratification is anticipated, the design shall provide the necessary criteria to mitigate the detection problems. - NOT APPLICABLE.

(l) Systems designed using Performance Based criteria shall be identified and referenced to design guides or standards approved by the local authority having jurisdiction consistent with standards adopted by the Florida Fire Prevention Code and the Florida Building Code. - NOT APPLICABLE.

(m) The system design must indicate if the system is to provide a general evacuation signal or a zoned evacuation for all high-rise buildings or multi-tenanted properties as defined in section 2 of the Florida Building Code, Building. - GENERAL EVAC SIGNAL.

(n) Wiring requirements for underground, wet locations, campus style wiring, protection against damage and burial depth shall be specified or indicated on the engineering design documents. - REFER TO E001 SPECS AND FA301 NOTES.

(o) Requirements for operations and maintenance procedures, manuals, system documentation, and instruction of Owner's operating personnel, as needed to operate the systems as intended. - DOCUMENTS SHALL BE PROVIDED BY F/A CONTRACTOR AND TURNED OVER TO OWNER UPON SYSTEM COMMISSIONING.

(5) In the event that the Engineer of Record elects to specify specific equipment and to show the required wiring, battery and voltage drop (circuit analysis) calculations shall be completed. The calculations shall be completed using the equipment manufacturer's data and applicable NFPA 72 procedures. - NOT APPLICABLE; SPECIFIC MANUFACTURER IS NOT SPECIFIED.

(6) System test requirements shall be noted on the Engineering Design Documents. - SYSTEM TESTING SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 72 AND SHEET FA301 MATRIX.

(7) When the Engineer of Record determines that special requirements are required by the owner, insurance underwriter or local fire code amendments these requirements shall be documented or referenced on the Engineering Design Documents. - NOT APPLICABLE.

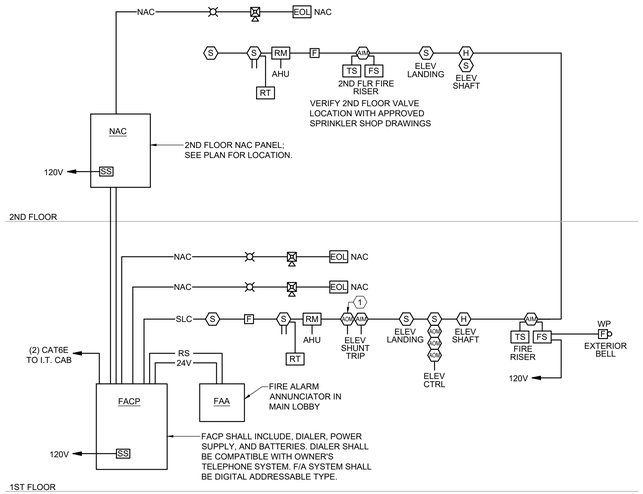
(8) This rule shall be reviewed, and if necessary, repealed, modified, or renewed through the rulemaking process five years from the effective date. - NOTED.

FIRE ALARM NOTES:

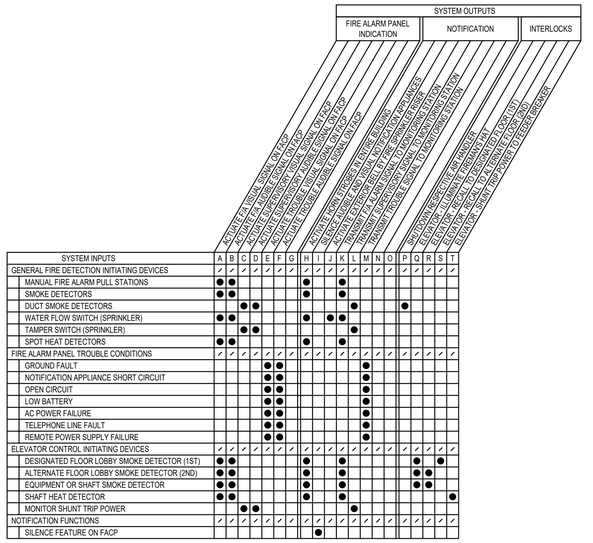
1. THESE ENGINEERING DRAWINGS HAVE BEEN PROVIDED TO MEET THE MINIMUM FIRE ALARM DESIGN CRITERIA IN ACCORDANCE WITH FAC 61G15-32 AND 61G15-30.003.
2. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE FIRE ALARM SYSTEM BE PROVIDED WITH ALL THE NECESSARY EQUIPMENT, WIRING, CONDUIT, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. THE MINIMUM FIRE ALARM DESIGN CRITERIA IN THESE DOCUMENT SHALL BE STRICTLY CONFORMED TO IN ACCORDANCE WITH 61G15-30.008. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE FIRE ALARM SYSTEM, IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE OWNER. THE FIRE ALARM CONTRACTOR SHALL CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
3. FIRE ALARM CONTRACTOR SHALL BE AWARE OF THE TYPE OF FINISHES, DECOR, AND OCCUPANCY. COORDINATION WITH THE STAKEHOLDERS SHALL BE PERFORMED BY THE FIRE ALARM CONTRACTOR FOR PLACEMENT OF ALARM DEVICES.
4. FIRE ALARM INSTALLATION SHALL BE SUPERVISED BY TECHNICIAN(S) WITH CURRENT CERTIFICATION AS A NICET LEVEL III IN FIRE ALARM.
5. EXPOSED FIRE ALARM PATHWAYS SHALL BE IN 3/4" EMT. NO OTHER SYSTEMS MAY UTILIZE FIRE ALARM RACEWAY.
6. FIRE ALARM CABLING ABOVE ACCESSIBLE CEILING SPACES MAY BE RUN OUTSIDE OF CONDUIT, UNLESS OTHERWISE PROHIBITED BY NFPA 72, NEC, OR AHJ. SUCH CABLING SHALL BE SUPPORTED VIA DEDICATED HARDWARE SOLELY FOR F/A SYSTEM AND SHALL NOT SHARE SUPPORTS WITH OTHER CABLING. SUPPORTS SHALL BE ADEQUATELY SUPPORTED AT INTERVALS NOT EXCEEDING CABLE MANUFACTURER RECOMMENDATIONS. CEILING GRID SHALL NOT BE USED AS SUPPORTING MEANS.
7. FOR CONDUITS IN ELECTRICAL ROOMS, MECHANICAL ROOMS, AND ABOVE ACCESSIBLE CIELINGS: ALL FIRE ALARM CONDUIT AND BOX COVERS SHALL BE READILY IDENTIFIABLE AS BELONGING TO THE FIRE ALARM SYSTEM; PROVIDE RED MARKINGS NOT LESS THAN 1/2" WIDE BY 2" LONG TO CLEARLY IDENTIFY, OR OTHER APPROVED METHOD.
8. FOR CONDUITS IN EXPOSED FINISHED AREAS (SUCH AS RECEPTION LOBBY): CONDUITS, BOXES, AND MOUNTING HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING SURFACES; REFER TO ARCHITECTURAL PLANS.
9. FIRE ALARM CIRCUITS SHALL NOT HAVE SPLICES. CIRCUITS SHALL BE EXTENDED FROM DEVICE AND APPLIANCE SCREW TERMINALS.

CODE REQUIREMENTS:

1. FIRE ALARM SYSTEM REQUIRED FOR NEW BUSINESS OCCUPANCY PER FPPC-NFPA101-38.3.4.1 (50 OR MORE OCCUPANCY ABOVE LEVEL OF EXIT DISCHARGE).
2. ELEVATOR RECALL REQUIRED BY ASME A17.1



1 FIRE ALARM SYSTEM RISER



2 FIRE ALARM SEQUENCE OF OPERATION MATRIX

SHEET NOTES

A. REFER TO SHEET E001 FOR SYMBOL LEGEND AND ABBREVIATIONS.

B. REFER TO PLANS FOR CANDELA, LOCATIONS, AND QUANTITIES.

C. QUANTITIES, WIRING, AND DEVICES ON RISER DIAGRAMS ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. F/A CONTRACTOR SHALL PROVIDE COMPLETE RISER DIAGRAMS WITH QUANTITIES, ADDRESSES, AND DETAILED WIRING. CONTRACTOR SHOP DRAWING SUBMITTALS SHALL ALSO INCLUDE DETAILED BATTERY, POWER, AND VOLTAGE DROP CALCULATIONS.

(#) SHEET KEYNOTES

1. PROVIDE OUTPUT RELAY (OR MULTIPLE RELAY CONFIGURATION) SUITABLE FOR SWITCHING 120V SHUNT TRIP POWER TO THE ELEVATOR FEEDER BREAKER; SHUNT TRIP OPERATION MAY REQUIRE HIGHER AMP RATING THAN STANDARD FIRE ALARM RELAY. REFER TO APPROVED ELECTRICAL GEAR SHOP DRAWINGS.

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CHAD J. FRALICK LICENSE No 73811 STATE OF FLORIDA PROFESSIONAL ENGINEER

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE: 05/30/2025
DESIGNED BY: CJF
DRAWN BY: CJF
CHECKED BY: CJF

DRAWING TITLE:
FIRE ALARM RISER, MATRIX, & NOTES

SHEET NO:
FA301

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PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH 2023 FLORIDA BUILDING CODE, 2023 FLORIDA ENERGY CONSERVATION CODE, AND 2023 FLORIDA PLUMBING CODE.
2. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS. EXACT DIMENSION LAYOUTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE PLUMBING SUB-CONTRACTOR.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
4. ALL EXCAVATION, BACKFILL, AND COMPACTION AS REQUIRED FOR THIS PROJECT SHALL BE PROVIDED AS PART OF THIS CONTRACT.
5. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERABLE AND ACCEPTANCE BY THE OWNER, ENGINEER OF RECORD, AND BUILDING DEPARTMENT SHALL BE A CONDITION OF THE CONTRACT.
6. ALL MATERIALS SHALL BE NEW. ALL WATER SUPPLIES, VENT, WASTE, AND CONDENSATE LINES SHALL BE CONCEALED IN CEILING, WALLS, OR UNDER FLOOR SLAB UNLESS SPECIFICALLY NOTED OTHERWISE. SOME LINES MAY BE GRAPHICALLY DEPICTED OUTSIDE THE WALLS FOR CLARITY ONLY. THESE LINES ARE INTENDED TO BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE.
7. ALL SHUTOFF VALVES SHALL BE ¼ TURN BALL VALVES.
8. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS. STOPS SHALL BE CHROMED BRASS WITH CHROMED BRASS TUBING AND COMPRESSION FITTINGS. PVC SUPPLIES ARE NOT ACCEPTABLE.
9. ALL PLUMBING FIXTURES SHALL HAVE AIR CHAMBERS UNLESS SYSTEM WATER HAMMER ARRESTORS ARE SHOWN. ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS.
10. PROVIDE CLEANOUTS FLUSH WITH GRADE OR SLAB WITH APPROPRIATE COVERS. COVERS SHALL BE BRONZE TOP WITH SCORED SURFACES AND LABELED "C.O".
11. PENETRATIONS OF FIRE RATED WALLS SHALL BE MADE PER THE UL OR GYP RATING SYSTEM AS SPECIFIED BY THE ARCHITECT.
12. ALL PLUMBING FIXTURES AND TRIM SHALL BE PER THE FIXTURE SCHEDULE. PROVIDE SUBMITTALS FOR EOR APPROVAL IF THERE ARE SUBSTITUTIONS OR THE OWNER WISHES TO MAKE A CHANGE, ANY COST ADJUSTMENTS WILL BE BASED ON THE FIXTURE SCHEDULE.
13. IF DISSIMILAR METALS ARE TO BE JOINED, APPROVED INSULATION UNIONS SHALL BE USED.
14. PROVIDE WATER HEATER(S) AS SHOWN ON THE DRAWINGS AND PLUMBING SCHEDULES. WATER HEATERS SHALL BE INSTALLED WITH HEAT TRAPS, THERMOSTATIC RELIEF VALVE, AND A DRAIN PROPERLY PIPED TO THE ADJACENT MOP SINK. PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE CONDENSATE SYSTEM INCLUDING A 2" DEEP EMERGENCY DRAIN PAN AS SHOWN ON THE DRAWINGS.
15. WALL PENETRATIONS OF SUPPLY PIPING SHALL BE MADE WITH COPPER PIPING OR SLEEVED CPVC WITH CAULKING.
16. COORDINATE UTILITY SERVICE LOCATIONS WITH CIVIL DRAWINGS.
17. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
18. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
19. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
20. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO ELECTRICAL PANELS AND TRANSFORMERS. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL EQUIPMENT UNDER ANY CIRCUMSTANCES. PLUMBING PIPING SHALL NOT RUN THROUGH DEDICATED ELECTRICAL OR TELECOM ROOMS UNDER ANY CIRCUMSTANCE. ANY PIPING RUN OVER ELECTRICAL EQUIPMENT OR THROUGH ELECTRICAL / TELECOM ROOMS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
21. ALL DOMESTIC WATER PIPING SYSTEMS SHALL BE TESTED FOR ABSOLUTE TIGHTNESS BY SUBJECTING THE SYSTEM TO HYDROSTATIC PRESSURE OF 150 PSI GAUGE OR 50 PSI OVER WORKING PRESSURE, WHICHEVER IS GREATER. TESTING SHALL BE COMPLETED FOR NOT LESS THAN EIGHT (8) HOURS.
22. SOIL, VENT PIPES, AND CONDENSATE DRAINS SHALL BE TESTED BY TEMPORARILY PLUGGING ALL OUTLETS AND FILLING THE SYSTEM WITH WATER TO THE LEVEL OF THE HIGHEST VENT STACK. THE SYSTEM MUST BE INSPECTED AND ALL LEAKS REPAIRED.

PROJECT CLOSEOUT

1. UPDATE AS-BUILT DRAWINGS TO REFLECT FINAL INSTALL CONDITIONS. SUBMIT ONE COPY OF AS-BUILT DOCUMENTATION TO GENERAL CONTRACTOR, OWNER, AND ENGINEER OF RECORD.
2. PREPARE O&M MANUALS WITH EQUIPMENT SPECIFICATIONS, MAINTENANCE SCHEDULES, AND OPERATING INSTRUCTIONS. PROVIDE DIGITAL AND HARD COPIES TO THE OWNER.
3. CONDUCT TRAINING SESSIONS FOR THE OWNER'S MAINTENANCE STAFF (OR DIRECTLY TO OWNER) FOR SYSTEMS OPERATION, TROUBLE SHOOTING, AND MAINTENANCE.
4. PROVIDE ALL WARRANTY DOCUMENTATION FOR HVAC EQUIPMENT IN A CONSOLIDATED LOCATION AND PROVIDE TO OWNER. COORDINATE SERVICE MAINTENANCE CONTRACT OPPORTUNITIES WITH OWNER. COORDINATE ANY EXTENDED WARRANTY OPPORTUNITIES WITH OWNER.

APPLICABLE CODES & STANDARDS

FLORIDA BUILDING CODE – MECHANICAL 2023 EDITION
FLORIDA BUILDING CODE – PLUMBING 2023 EDITION
FLORIDA BUILDING CODE – ENERGY CONSERVATION 2023 EDITION
FLORIDA ADMINISTRATIVE CODE – 69A-3.012
NFPA-13, STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS – 2019 EDITION
NFPA-70, NATIONAL ELECTRICAL CODE – 2020 EDITION
NFPA-72, NATIONAL FIRE ALARM CODE – 2019 EDITION

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
CD	– ABOVE GROUND CONDENSATE DRAIN
CD	– BELOW GROUND CONDENSATE DRAIN
	– DOMESTIC COLD WATER
	– DOMESTIC HOT WATER
	– DOMESTIC HOT WATER RECIRCULATING
GW	– GREASE WATER
S	– SANITARY
	– SANITARY VENT
ST	– ABOVE GROUND STORM WATER LEADER
U/G	– BELOW GROUND
STO	– STORM WATER OVERFLOW
M	– WATER METER
	– WALL HYDRANT
	– HOSE BIBB
CO	– CLEAN OUT PLUG
WCO	– WALL CLEANOUT
EWCO	– EXTERIOR WALL CLEAN OUT
FCO	– FLOOR CLEAN OUT
FD FD	– FLOOR DRAIN
FS	– FLOOR SINK
	– ROOF DRAIN
	– WATER CLOSET
	– TRAP (LAV OR SINK)
	– SHUT-OFF VALVE IN VALVE BOX
	– SHUTOFF VALVE
	– BALL VALVE
	– CALIBRATED BALANCING VALVE
	– CHECK VALVE (SWING)
	– GAS PRESSURE REGULATOR
	– SHUTOFF VALVE ON RISER
	– CONNECTION, TOP
	– CONNECTION, BOTTOM
	– ELBOW, TURNED DOWN
	– ELBOW, TURNED UP
	– TEE, TURNED UP
	– TEE, TURNED DOWN
	– CAP
	– DIRECTION OF FLOW
	– ELECTRIC WATER HEATER
	– CEILING MOUNTED ACCESS DOOR
XX	– REVISION REFERENCE
1 / P-1	– DETAIL REFERENCE: TOP – DETAIL#; BOTTOM – DRAWING# SHOWN ON
XX	– SHEET NOTE CALLOUT
	– DEMO TO
	– CONNECT TO

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

PLUMBING ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFF	–ABOVE FINISHED FLOOR	LAV	–LAVATORY
AFG	–ABOVE FINAL GRADE	LBS	–POUNDS
B/S	–BELOW SLAB	MH	–MANHOLE
CB	–CATCH BASIN	NIC	–NOT IN CONTRACT
CD	–CONDENSATE DRAIN	NC	–NORMALLY CLOSED
CFH	–CUBIC FEET PER HOUR	NO	–NORMALLY OPEN
CO	–CLEANOUT	NP	–NON-POTABLE WATER
CONT	–CONTINUATION	NTS	–NOT TO SCALE
CW	–DOMESTIC COLD WATER	OD	–OUTSIDE DIAMETER
DN	–DOWN	PRV	–PRESSURE REDUCING VALVE
DS	–DOWNSPOUT	PSI	–POUNDS PER SQUARE INCH
DWG	–DRAWING	PVC	–POLYVINYL CHLORIDE PIPE
EXIST	–EXISTING	RD	–ROOF DRAIN
ECO	–EXTERIOR CLEAN OUT	RPBP	–REDUCED PRESSURE BACKFLOW PREVENTOR
E.O.R	–ENGINEER OR RECORD	SAN	–SANITARY
°F	–DEGREE FAHRENHEIT	SD	–STORM DRAIN
FCO	–FLOOR CLEANOUT	SF	–SQUARE FEET
FD	–FLOOR DRAIN	SH	–SHEET
FS	–FLOOR SINK	SOV	–SHUTOFF VALVE
G	–GAS	ST	–STORM WATER LEADER
GPH	–GALLONS PER HOUR	STO	–OVERFLOW STORM WATER
GPM	–GALLONS PER MINUTE	T.P.	–TRAP PRIMER
GW	–GREASE WATER	U/G	–UNDERGROUND
HB	–HOSE BIBB	V	–VENT
HC	–ADA ACCESSIBLE	VTR	–VENT THRU ROOF
HD	–HUB DRAIN	VTW	–VENT THRU WALL
HW	–DOMESTIC HOT WATER	WC	–WATER CLOSET
HWR	–DOMESTIC HOT WATER RETURN (RECIRC)	WCO	–WALL CLEANOUT
IE	–INVERT ELEVATION	WTR	–WATER
IW	–INDIRECT WASTE	WHA	–WATER HAMMER ARRESTOR
JAN	–JANITOR SINK (SEE SPEC)		
KW	–KILOWATT		

SHEET INDEX

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P121	GRAVITY PIPING PLAN – SECOND FLOOR
P211	PRESSURE PIPING PLAN – FIRST FLOOR
P221	PRESSURE PIPING PLAN – SECOND FLOOR
P301	GRAVITY PIPING RISER DIAGRAM
P302	PRESSURE PIPING RISER DIAGRAM
P401	PLUMBING DETAILS
P402	PLUMBING DETAILS
P403	PLUMBING DETAILS
P501	PLUMBING SCHEDULES
P601	PLUMBING SPECIFICATIONS

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No.	Date	Revision

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DATE:	05/30/2025
DESIGNED BY:	KJD
DRAWN BY:	KJD
CHECKED BY:	KJD

DRAWING TITLE:
PLUMBING GENERAL NOTES, LEGEND, AND SHEET INDEX

SHEET NO:
P001

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DRAWING NOTES:

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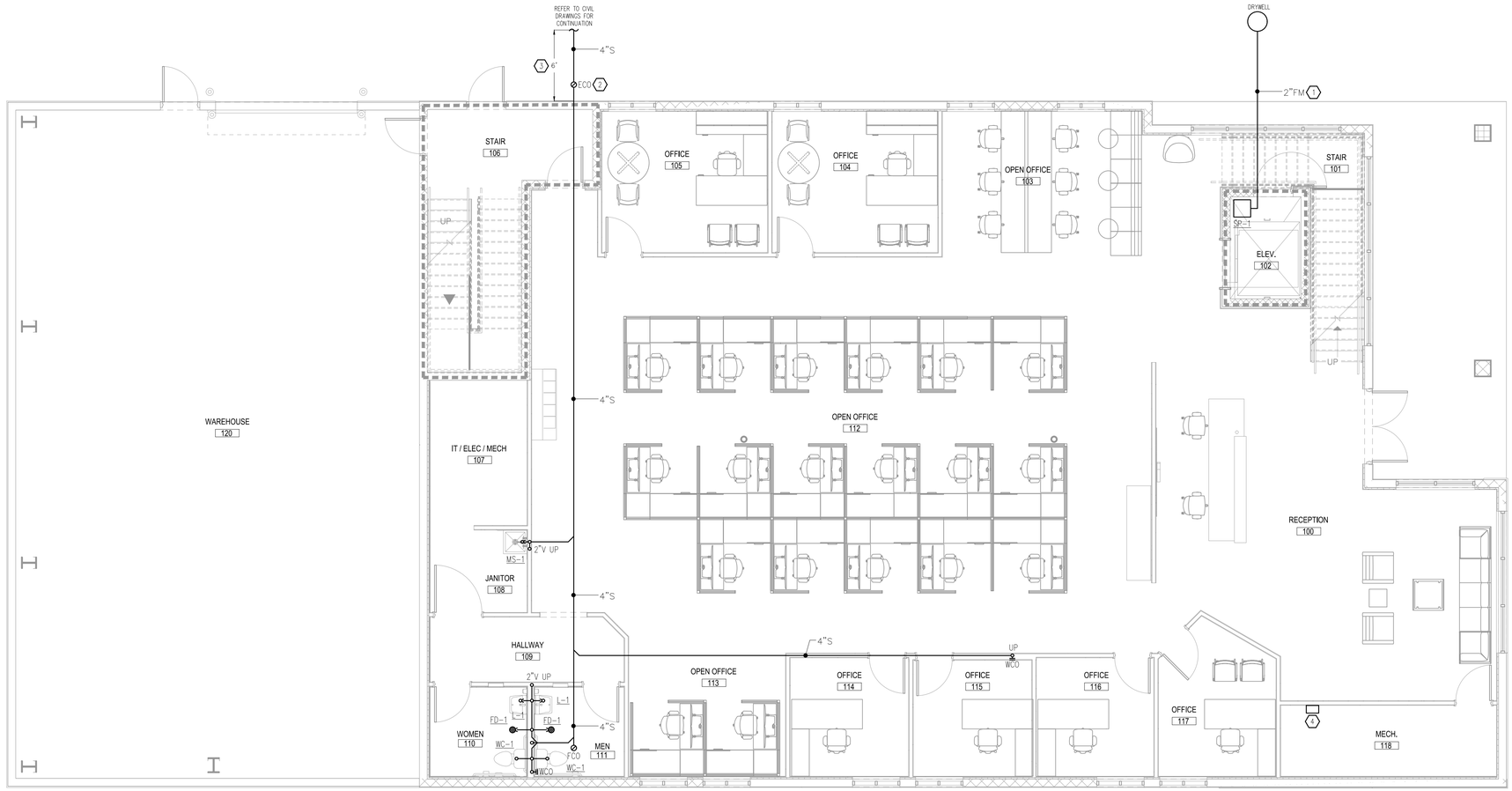
2. FLOOR PLANS AND RISERS ARE DIAGRAMMATICAL, NOT ALL OFFSETS, VALVES, OR SPECIALTIES ARE SHOWN ON PLAN. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. FIRE RATED WALL, REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.
4. ALL CEILING AREAS SUCH AS RECEPTION AND MECH./ELECT./I.T. ROOMS WHERE STRUCTURE AND CEILING ARE TO REMAIN EXPOSED TO SPACE BELOW AS PART OF THE FINAL ARCHITECTURAL EXPRESSION MUST BE EXECUTED AND FINISHED TO HIGH QUALITY AND STANDARD OF WORKMANSHIP. ALL SUBCONTRACTORS TO COORDINATE ROUTING AND INSTALLATIONS TO ENSURE CLEAN, SQUARE, ORDERLY, AND PARALLEL ALIGNMENT WHERE POSSIBLE. WHEN INSTALLATIONS ARE COMPLETE ALL EXPOSED STRUCTURE, PIPES, CONDUITS, WIRING, DUCTS, ETC. IN THE EXPOSED CEILING AREAS TO BE PAINTED A UNIFORM COLOR TO BE SELECTED BY THE ARCHITECT.

KEY NOTES:

1. ROUTE NEW 2" FORCE MAIN BELOW SLAB TO NEW DRYWELL LOCATED IN GRASS AREA ON SITE, FIELD CONFIRM EXACT LOCATION.
2. NEW EXTERIOR CLEANOUT SHALL BE INSTALLED IN SIDEWALK.
3. PLUMBING CONTRACTORS SCOPE INCLUDES EXTENDING NEW SANITARY MAIN 6'-0" BEYOND BUILDING FOOTPRINT.
4. SUMP PUMP REMOTE ALARM PANEL



GRAVITY PIPING PLAN - FIRST FLOOR

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

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DESIGNED BY:	KJD
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CHECKED BY:	KJD

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GRAVITY PIPING PLAN - FIRST FLOOR

SHEET NO:
P111

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DRAWING NOTES:

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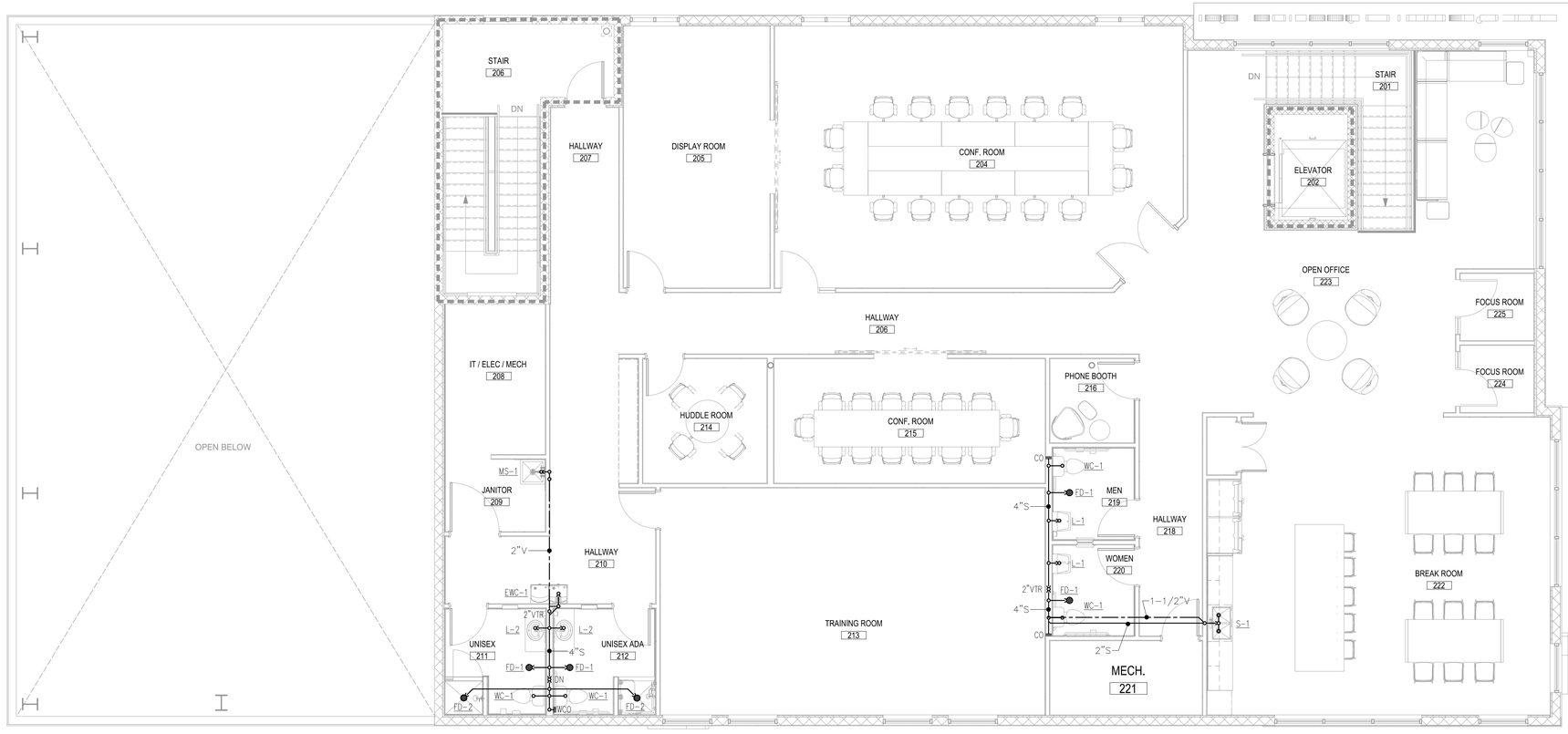
3. FIRE RATED WALL, REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.
4. ALL CEILING AREAS SUCH AS RECEPTION AND MECH./ELECT./I.T. ROOMS WHERE STRUCTURE AND CEILING ARE TO REMAIN EXPOSED TO SPACE BELOW AS PART OF THE FINAL ARCHITECTURAL EXPRESSION MUST BE EXECUTED AND FINISHED TO HIGH QUALITY AND STANDARD OF WORKMANSHIP. ALL SUBCONTRACTORS TO COORDINATE ROUTING AND INSTALLATIONS TO ENSURE CLEAN, SQUARE, ORDERLY, AND PARALLEL ALIGNMENT WHERE POSSIBLE. WHEN INSTALLATIONS ARE COMPLETE ALL EXPOSED STRUCTURE, PIPES, CONDUITS, WIRING, DUCTS, ETC. IN THE EXPOSED CEILING AREAS TO BE PAINTED A UNIFORM COLOR TO BE SELECTED BY THE ARCHITECT.



GRAVITY PIPING PLAN - SECOND FLOOR

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

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CHECKED BY:	KJD

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GRAVITY PIPING PLAN - SECOND FLOOR

SHEET NO:

P121

DRAWING NOTES:

1. BRANCH PIPING TO PLUMBING FIXTURES SHALL MATCH PIPE SIZE INDICATED ON ROUGH-IN SCHEDULE UNLESS OTHERWISE NOTED ON PLANS.
2. FLOOR PLANS AND RISERS ARE DIAGRAMMATICAL, NOT ALL OFFSETS, VALVES, OR SPECIALTIES ARE SHOWN ON PLAN. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. FIRE RATED WALL, REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.
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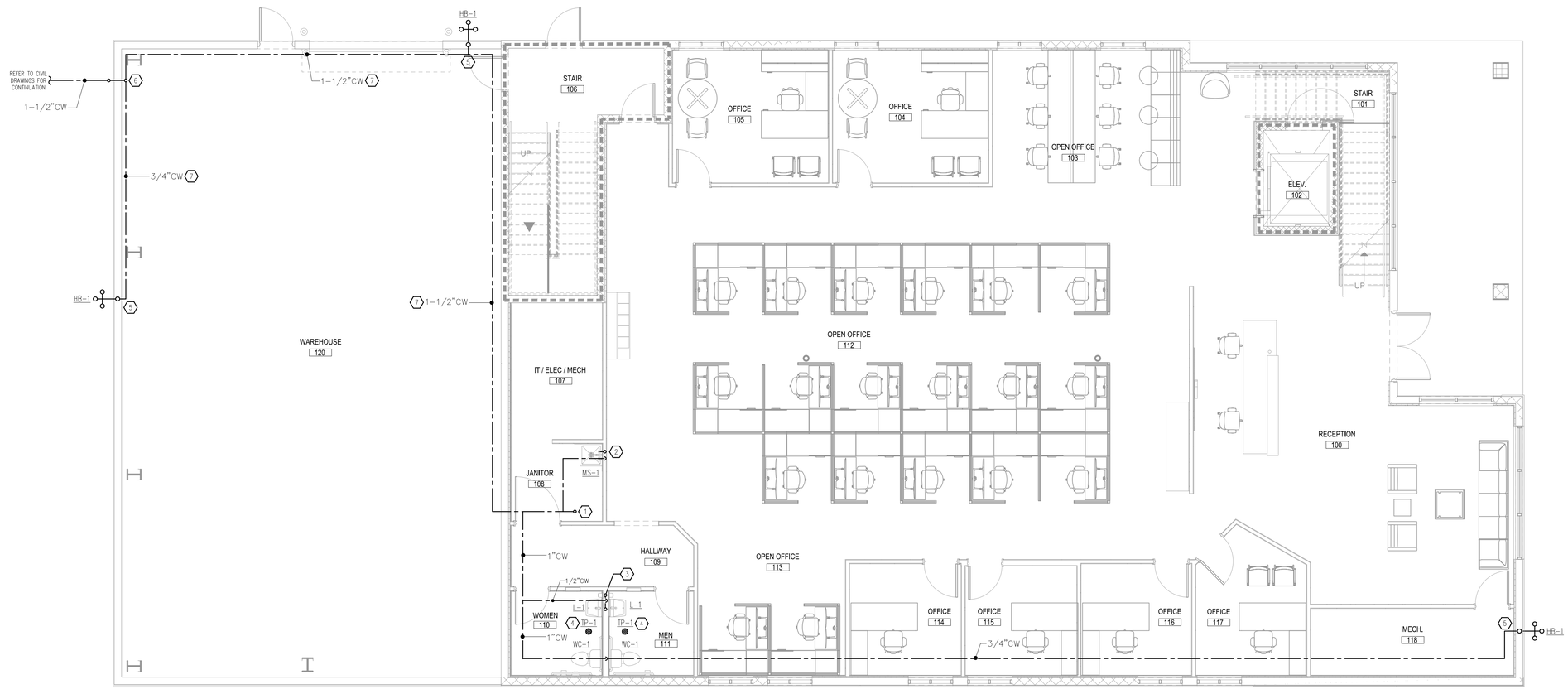
KEY NOTES:

1. 1-1/2" CW PIPING UP TO 2ND FLOOR. PROVIDE FULL FLOW SHUT VALVE AT BASE OF RISER UP TO 2ND FLOOR.
2. 1/2" HW PIPING FROM 2ND FLOOR TO MOP SINK.
3. 3/4" HW PIPING LOOP DOWN FROM 2ND FLOOR AND BACK UP TO 2ND FLOOR. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4. PROVIDE TRAP PRIMER EQUIVALENT TO WATTS LFTP300. CONNECT TO DOMESTIC COLD WATER MAIN.
5. PROVIDE SHUT-OFF VALVE FOR BRANCH PIPING CONNECTED TO HB-1.
6. PROVIDE SHUT-OFF VALVE.
7. DOMESTIC WATER PIPING ROUTED THROUGH WAREHOUSE SHALL BE INSTALLED TIGHT TO STRUCTURE AND SHALL NOT INTERIOR WITH STORAGE RACKS OR FORKLIFT OPERATIONS.



PRESSURE PIPING PLAN - FIRST FLOOR

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

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No.	Date	Revision

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CHECKED BY:	KJD

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PRESSURE PIPING PLAN - FIRST FLOOR

SHEET NO:
P211

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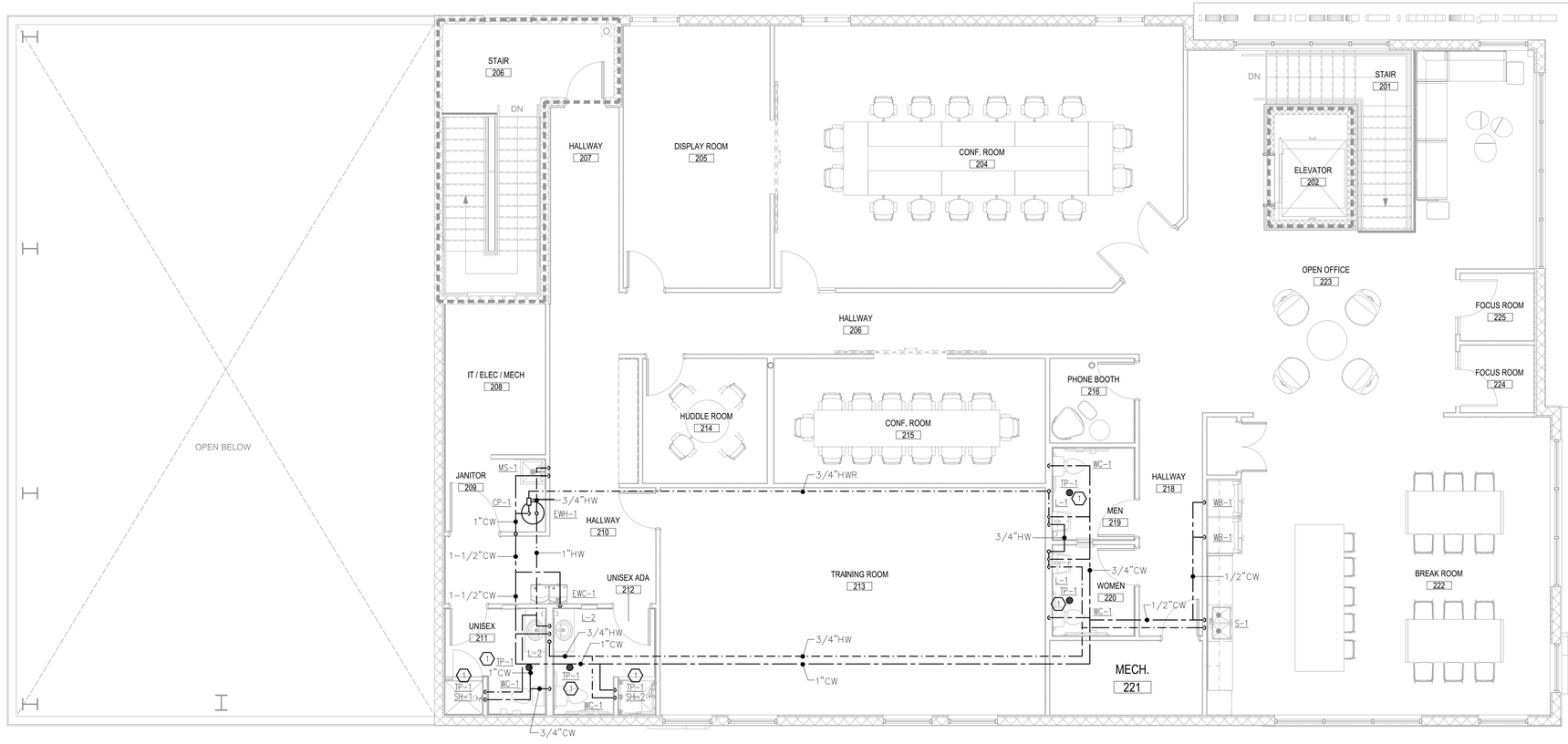
DRAWING NOTES:

1. BRANCH PIPING TO PLUMBING FIXTURES SHALL MATCH PIPE SIZE INDICATED ON ROUGH-IN SCHEDULE UNLESS OTHERWISE NOTED ON PLANS.
2. FLOOR PLANS AND RISERS ARE DIAGRAMMATICAL, NOT ALL OFFSETS, VALVES, OR SPECIALTIES ARE SHOWN ON PLAN. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. FIRE RATED WALL, REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.
4. ALL CEILING AREAS SUCH AS RECEPTION AND MECH./ELECT./I.T. ROOMS WHERE STRUCTURE AND CEILING ARE TO REMAIN EXPOSED TO SPACE BELOW AS PART OF THE FINAL ARCHITECTURAL EXPRESSION MUST BE EXECUTED AND FINISHED TO HIGH QUALITY AND STANDARD OF WORKMANSHIP. ALL SUBCONTRACTORS TO COORDINATE ROUTING AND INSTALLATIONS TO ENSURE CLEAN, SQUARE, ORDERLY, AND PARALLEL ALIGNMENT WHERE POSSIBLE. WHEN INSTALLATIONS ARE COMPLETE ALL EXPOSED STRUCTURE, PIPES, CONDUITS, WIRING, DUCTS, ETC. IN THE EXPOSED CEILING AREAS TO BE PAINTED A UNIFORM COLOR TO BE SELECTED BY THE ARCHITECT.

KEY NOTES:

1. PROVIDE TRAP PRIMER EQUIVALENT TO WATTS LFTP300. CONNECT TO DOMESTIC COLD WATER MAIN.



PRESSURE PIPING PLAN - SECOND FLOOR

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

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

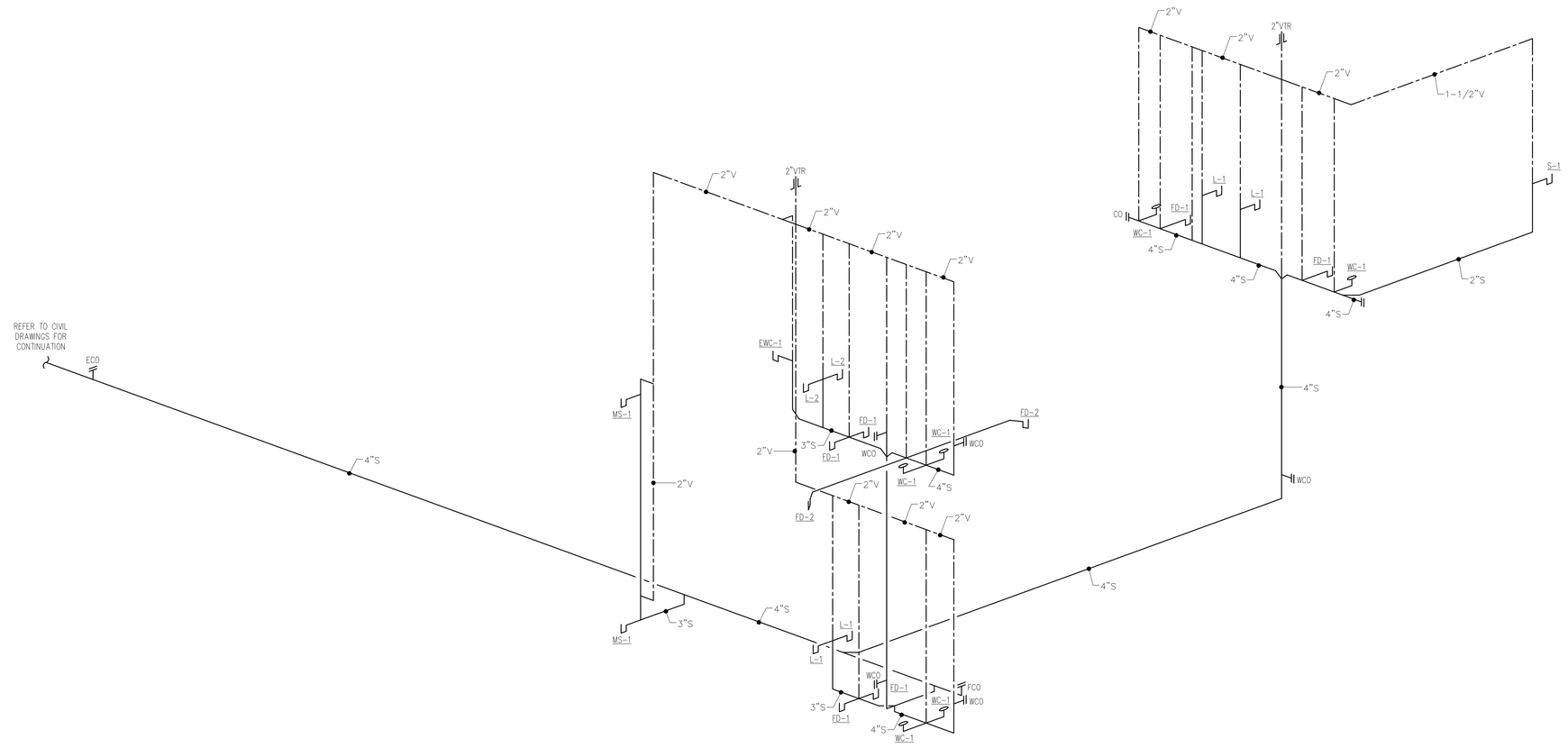
DATE:	05/30/2025
DESIGNED BY:	KJD
DRAWN BY:	KJD
CHECKED BY:	KJD

DRAWING TITLE:
PRESSURE PIPING PLAN - SECOND FLOOR

SHEET NO:
P221

DRAWING NOTES:

1. BRANCH PIPING TO PLUMBING FIXTURES SHALL MATCH PIPE SIZE INDICATED ON ROUGH-IN SCHEDULE UNLESS OTHERWISE NOTED ON PLANS.
2. FLOOR PLANS AND RISERS ARE DIAGRAMMATICAL, NOT ALL OFFSETS, VALVES, OR SPECIALTIES ARE SHOWN ON PLAN. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



GRAVITY PIPING RISER DIAGRAM

SCALE: NTS

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24006 (C&A 2503)

DATE:	05/30/2025
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DRAWN BY:	KJD
CHECKED BY:	KJD

DRAWING TITLE:
GRAVITY PIPING RISER DIAGRAM

SHEET NO:
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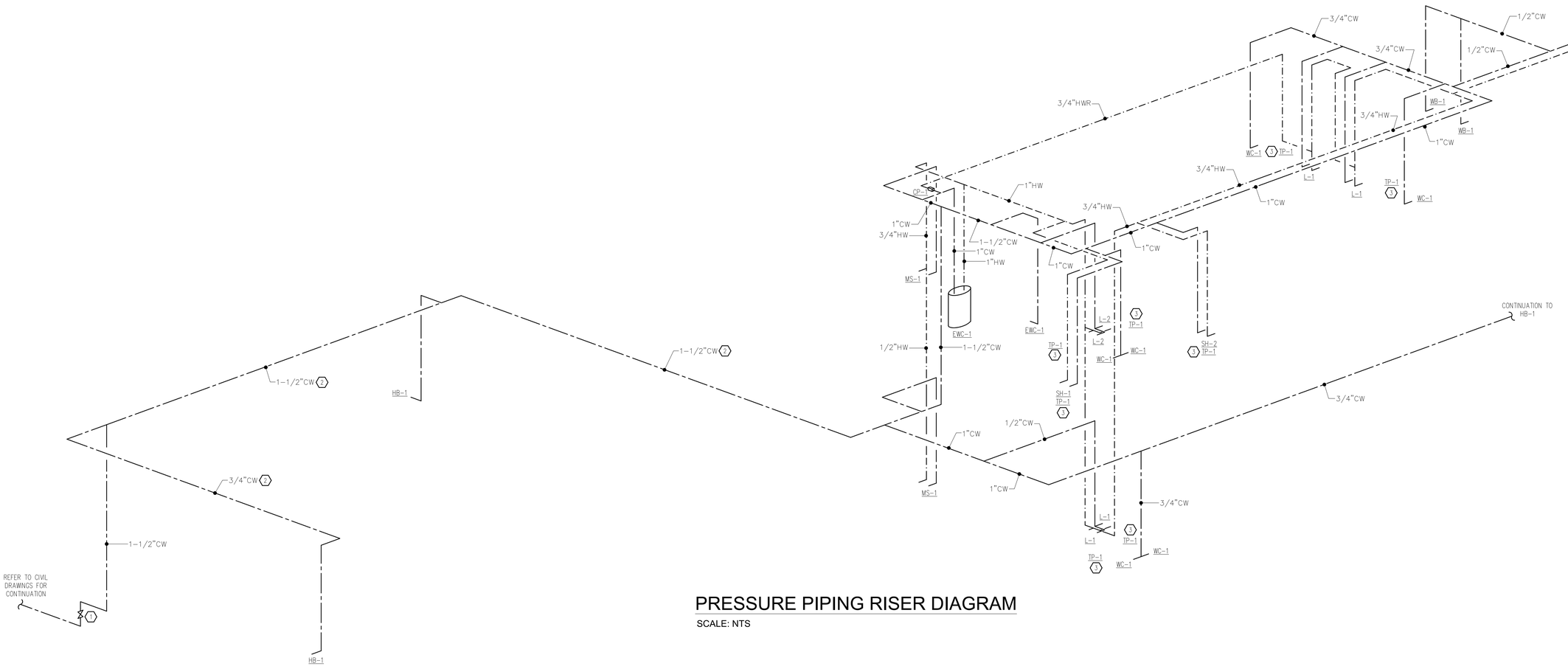
DRAWING NOTES:

1. BRANCH PIPING TO PLUMBING FIXTURES SHALL MATCH PIPE SIZE INDICATED ON ROUGH-IN SCHEDULE UNLESS OTHERWISE NOTED ON PLANS.
2. FLOOR PLANS AND RISERS ARE DIAGRAMMATICAL, NOT ALL OFFSETS, VALVES, OR SPECIALTIES ARE SHOWN ON PLAN. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES:

1. PROVIDE SHUT-OFF VALVE.
2. DOMESTIC WATER PIPING ROUTED THROUGH WAREHOUSE SHALL BE INSTALLED TIGHT TO STRUCTURE AND SHALL NOT INTERIOR WITH STORAGE RACKS OR FORKLIFT OPERATIONS.
3. PROVIDE TRAP PRIMER EQUIVALENT TO WATTS LFTP300. CONNECT TO DOMESTIC COLD WATER MAIN.



PRESSURE PIPING RISER DIAGRAM

SCALE: NTS

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No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE:	05/30/2025
DESIGNED BY:	KJD
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DRAWING TITLE:
PRESSURE PIPING RISER DIAGRAM

SHEET NO:
P302

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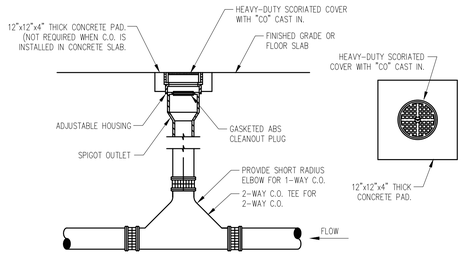
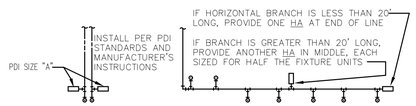


CLEANOUT DETAIL

NTS | 7



SINGLE FIXTURE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

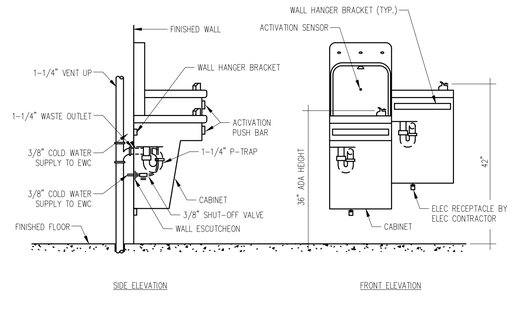
MULTIPLE FIXTURE

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

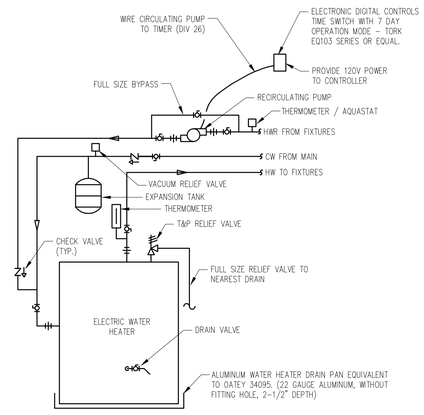
HAMMER ARRESTORS DETAIL

NTS | 4



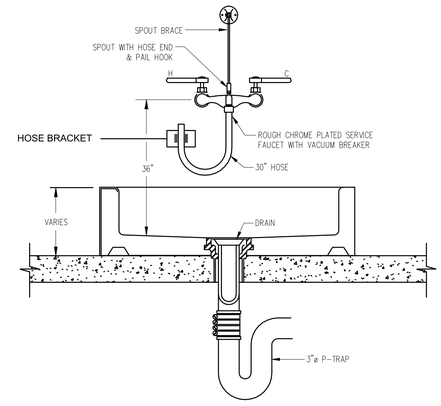
ELECTRIC WATER COOLER DETAIL

NTS | 1



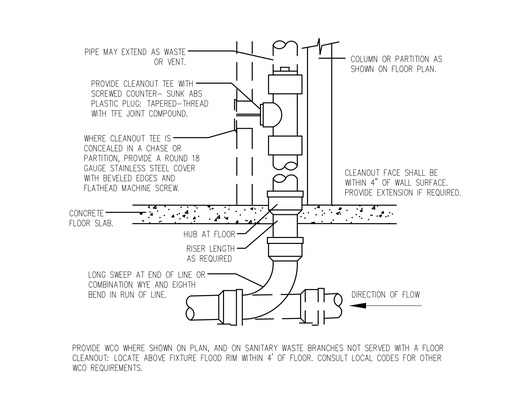
WATER HEATER PIPING DETAIL

NTS | 8



MOP SINK DETAIL

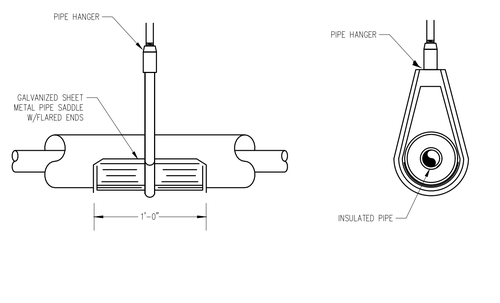
NTS | 5



PROVIDE WCO WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT: LOCATE ABOVE FIXTURE FLOOD RIM WITHIN 4' OF FLOOR. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

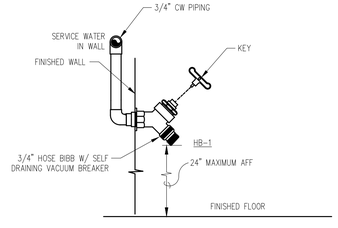
WALL CLEANOUT

NTS | 2



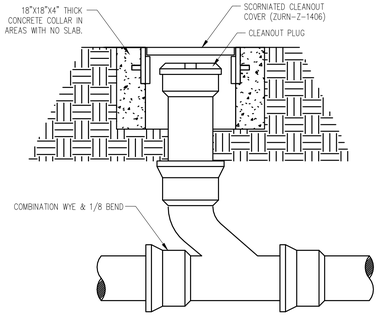
INSULATED PIPE HANGER DETAIL

NTS | 9



HOSE BIBB DETAIL (HB-1)

NTS | 6



EXTERIOR CLEANOUT

NTS | 3

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FLORIDA, 33716

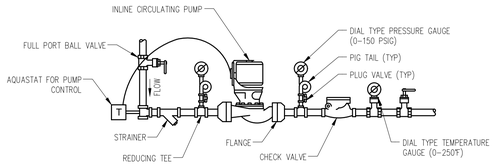
No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

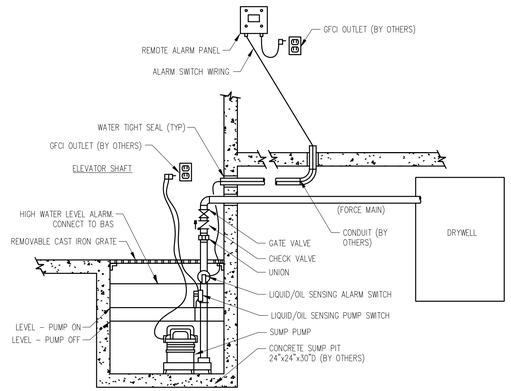
DATE:	05/30/2025
DESIGNED BY:	KJD
DRAWN BY:	KJD
CHECKED BY:	KJD

DRAWING TITLE:
PLUMBING DETAILS

SHEET NO:
P401

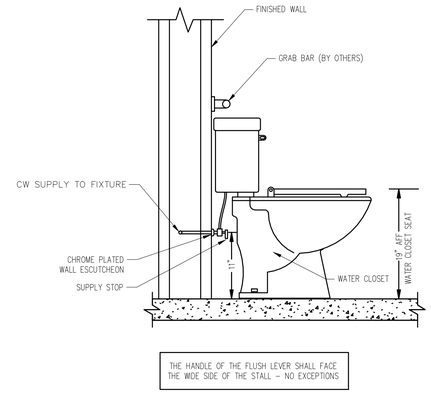


INLINE RECIRCULATING PUMP NTS 7



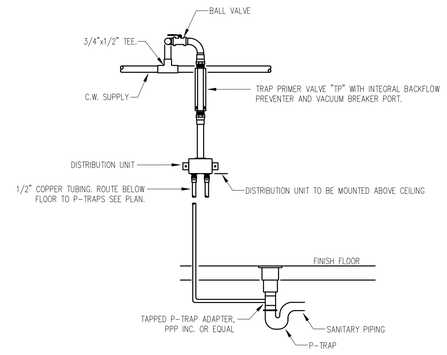
SUMP PUMP
PROVIDE SUMP PUMP SYSTEM WITH OIL SMART PUMP SWITCH AND OIL SMART ALARM PANEL WITH EXTRA LONG PIGGYBACK ELECTRICAL POWER CORD. SYSTEM TO INCLUDE SIMPLEX CONTROL PANEL WITH ALARM BEACON LIGHT, ALARM HORN, PUMP RUN LIGHT, AND DRY AUXILIARY ALARM CONTACTS. PRESET ON/OFF POINTS DIFFERENTIATE OIL OR WATER TO ALARM MAINTENANCE OF OIL OR WATER DETECTED.

SUMP PUMP - ELEVATOR PIT NTS 4

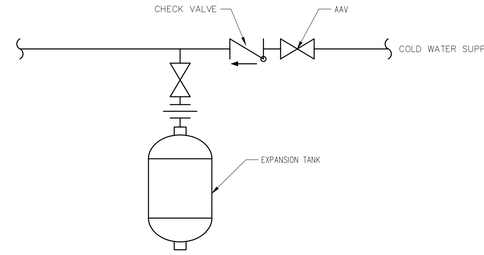


THE HANDLE OF THE FLUSH LEVER SHALL FACE THE WIDE SIDE OF THE STALL - NO EXCEPTIONS

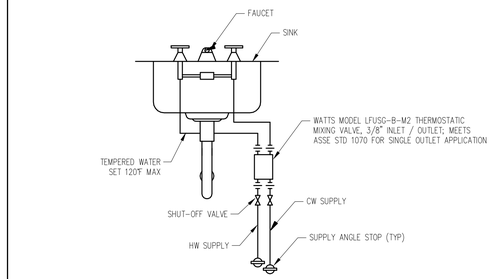
WATER CLOSET - TANK DETAIL NTS 1



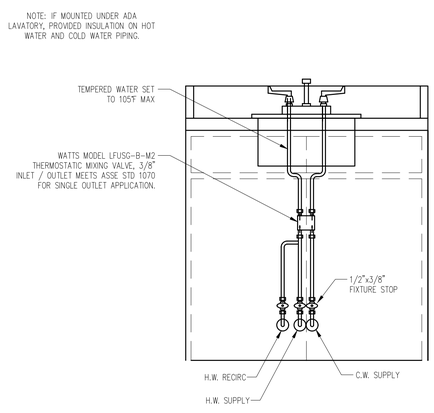
TRAP PRIMER DETAIL NTS 8



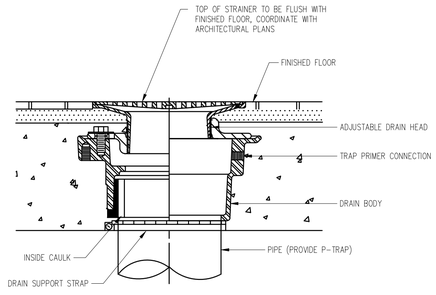
EXPANSION TANK DETAIL NTS 5



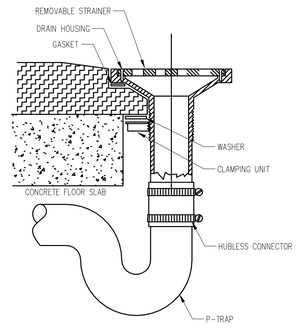
SINK CONNECTION DETAIL NTS 2



UNDER LAV MIXING VALVE DETAIL NTS 9



FLOOR DRAIN DETAIL NTS 6



SHOWER DRAIN DETAIL NTS 3

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE:	05/30/2025
DESIGNED BY:	KJD
DRAWN BY:	KJD
CHECKED BY:	KJD

DRAWING TITLE:
PLUMBING DETAILS

SHEET NO:
P402

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Thu, 05 Dec 2019 - 10:11am C:\Users\HACoscia\AppData\Local\Temp\AcPublish_13344\S30-08.dwg HACoscia

NOTES:
1. THIS SANITARY CLEAN OUT IS TO BE USED IN SODDED AREAS ONLY THAT ARE NOT ACCESSIBLE TO VEHICULAR TRAFFIC.
2. PLUG SHALL CONFORM TO THE SPECIFICATIONS AND SHALL HAVE A GASKET.
3. WYE SHALL CONFORM TO ASTM D-3034, & NSF STANDARD #14.

CITY STANDARDS

REVISIONS	
BY	DATE

ENGINEERING AND CAPITAL IMPROVEMENT DEPARTMENT CITY of ST. PETERSBURG

SANITARY SEWER CLEAN OUT FOR NON TRAFFIC AREAS DETAIL

SCALE: N.T.S.

APPROVED BY: Brijesh Raymon DIRECTOR

DATE: OCT. 2019

DWG. No. S30-8

Wed, 27 Nov 2019 - 3:44pm S:\AUTOCAD\2.1 New Standard Details\S30--Sanitary Sewer Details\S30--09.dwg HACoscia

NOTES
1. CAST IRON LID TO BE A MODIFIED VERSION OF USF No. 7715 (OR EQUIVALENT) WITHOUT BOLT HOLES, MARKED "SEWER." AND A.D.A. COMPLIANT FOR USE IN SIDEWALKS. LID WT. APPROX. 55 LBS

CITY STANDARDS

REVISIONS	
BY	DATE

ENGINEERING AND CAPITAL IMPROVEMENT DEPARTMENT CITY of ST. PETERSBURG

SANITARY SEWER CLEAN-OUT CONCRETE BOX DETAIL

SCALE: N.T.S.

APPROVED BY: Brijesh Raymon DIRECTOR

DATE: OCT. 2019

DWG. No. S30-9

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DATE: 05/30/2025
DESIGNED BY: KJD
DRAWN BY: KJD
CHECKED BY: KJD

DRAWING TITLE:
PLUMBING DETAILS

SHEET NO:
P403

ROUGH-IN AND MOUNTING HEIGHT SCHEDULE

FIXTURE	WASTE	VENT	COLD WATER	HOT WATER	HEIGHT OF INSTALLATION
FLOOR DRAINS/SINKS	2"	1-1/2"			
HOSE BIBB			3/4"		24" ABOVE GRADE OUTSIDE
JANITOR'S SINK	3"	1-1/2"	1/2"	1/2"	
LAVATORIES AND SINKS, COUNTER MOUNTED	1-1/2"	1-1/4"	1/2"	1/2"	
LAVATORIES AND SINKS, WALL MOUNTED	1-1/2"	1-1/4"	1/2"	1/2"	NON-ADA 31" TO TOP OF RIM ADA 34" TO TOP OF RIM
WATER CLOSET FLUSH TANK FLOOR MOUNTED	3"	2"	1/2"		

NOTES:
1. ALL VENT LINE SIZES SHOWN ARE MINIMUM UNLESS SHOWN LARGER ON FLOOR PLAN / RISER DIAGRAMS.
2. SIZES SHOWN FOR WASTE ARE FOR RISERS ONLY.
3. ALL DRAIN AND VENT LINES BELOW SLAB SHALL BE 2" OR LARGER.
4. VENT LINES SHALL RISE 6" ABOVE FLOOR LEVEL RIM BEFORE OFFSETTING HORIZONTALLY, EXCEPT FOR INTERCEPTORS LOCATED OUTDOORS.
5. SIZES SHOWN SHOWN APPLY UNLESS NOTED DIFFERENTLY ON PLANS.
6. IN APPLICATIONS WHERE PEX PIPING IS USED, CONTRACTOR SHALL NOT STUB ANY PEX PIPING DIRECTLY OUT OF THE WALLS. CONTRACTOR SHALL MAKE TRANSITION TO CPVC AT ALL STUB OUT LOCATIONS AND ENSURE PIPING CLIPS BETWEEN STUDS ARE PROVIDED TO SECURE CONNECTIONS. ROUGH IN PANELS FOR PEX PIPING APPLICATIONS ARE ACCEPTABLE ALTERNATIVE TO STUBOUTS WITH CPVC, PROVIDE OMNI PANELS BY SIOUX CHIEF OR EQUAL FOR ALTERNATIVE ROUGH IN INSTALLATIONS WITH PEX.

PIPING SCHEDULE

SYSTEM	SIZE	TYPE	CONNECTION	INSULATION	THICKNESS	COMMENTS
DOMESTIC COLD WATER	ALL	CPVC	GLUED	NONE	--	SCH 40 ASTM D2846
DOMESTIC HOT WATER	ALL	CPVC	GLUED	FIBERGLASS	1" MIN R4	SCH 40 ASTM D2846
SANITARY/VENT	ALL	DWV	GLUED	NONE	--	SCH. 40 ASTM D 1784 60T

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL NUMBER	TYPE	MATERIAL	REMARKS
WC-1	WATER CLOSET	KOHLER (AMERICAN STANDARD / SLOAN)	K-3493	FLUSH TANK	VITREOUS CHINA	1.6 GPF TWO PIECE TANK TYPE WATER CLOSET, ELONGATED ADA HEIGHT FRONT RIM, FLOOR MOUNTED TOILET WITH 12" STANDARD ROUGH-IN. SEAT: BEMIS-1950SSTDG.
L-1	LAVATORY	KOHLER (AMERICAN STANDARD / SLOAN)	K-1722	WALL MOUNTED	VITREOUS CHINA	ADA ACCESSIBLE WALL HUNG 19"x17" VITREOUS CHINA LAVATORY WITH SINGLE CENTER FAUCET HOLE, DRILLED FOR CONCEALED CARRIER. FAUCET: KOHLER K-46029-4. P-TRAP: K-8998. TRAP WRAP: 28946-1-NT. SUPPLY: MCGUIRE 2165CC.
L-2	LAVATORY	KOHLER (AMERICAN STANDARD / ALLORA)	K-299-1	DROP-IN	VITREOUS CHINA	DROP-IN 20-1/4" OVAL VITREOUS CHINA LAVATORY W/ SINGLE FAUCET HOLE. FAUCET: KOHLER K-46029-4. P-TRAP: K-8998. SUPPLY: MCGUIRE 2165CC.
S-1	TWO COMPARTMENT SINK	KOHLER (AMERICAN STANDARD / ELKAY)	K-25940	UNDERMOUNT	STAINLESS STEEL	UNDERMOUNT 32"x18"x5-13/16" 2-COMPARTMENT 18-GAUGE STAINLESS STEEL SINK. FAUCET: K-30469. SINK DRAIN WITH STRAINER AND TAILPIECE: K-8801. P-TRAP: K-9000. SUPPLY: MCGUIRE 2165CC.
MS-1	MOP SINK	PROFLO (ZURN / FIAT)	PFMB2424S	FLOOR MOUNT	COMPOSITE	FLOOR MOUNTED 24"x24" COMPOSITE CUSTODIAL MOP SINK, 3" IPS CONNECTION DRAIN ASSEMBLY, SERVICE SINK FCT W/6" INTEGRAL VB SPOUT W/HOSE THREAD OUTLET & PAIL HOOK, ADJUSTABLE SWIVEL INLETS, 2-1/2" LEVER HANDLES, HOSE AND BRACKET. FAUCET: PROFLO PF1119 - SERVICE FAUCET WITH VACUUM BREAKER.
SH-1	SHOWER	DELTA (MOEN / KOHLER)	T14232	--	--	MONITOR 14 SERIES PRESSURE BALANCED SINGLE HANDLE SHOWER MIXING VALVE STEM.
SH-2	SHOWER	DELTA (MOEN / KOHLER)	T14232	--	--	MONITOR 14 SERIES PRESSURE BALANCED SINGLE HANDLE SHOWER MIXING VALVE STEM. INCLUDE ADA COMPLIANT HANDLED SHOWER EQUIVALENT TO DELTA 55424. REFER TO SHEET A-402 FOR SHOWER ELEVATIONS FOR ADDITIONAL INFORMATION.
WB-1	ICE MAKER	OATLEY (SIOUX CHIEF / EASTMAN)	39156	WALL	POLYSTYRENE	1/2" HIGH IMPACT POLYSTYRENE, 4 SUPPORT BRACKETS, SNAP-ON FACEPLATE FRAME, ACCOMMODATES UP TO 1" DRYWALL WITH 1/4 TURN BRASS BALL VALVE.
EWC-1	ELECTRIC WATER COOLER (ADA ACCESSIBLE)	ELKAY (OASIS / HAWS)	LZSTL8WSSK	WALL MOUNT BI-LEVEL	--	UNIT SHALL PROVIDE 8.0 GPH OF 50 DEGREE F. WATER AT 90 DEGREE F. AMBIENT AND 80 DEGREE F. INLET WATER. BI-LEVEL BARRIER-FREE, STAINLESS-STEEL WATER COOLER. SURFACE MOUNTED ON WALL REFRIGERATION SYSTEM AND STAINLESS-STEEL GRILL. ADA ACCESSIBLE STAINLESS-STEEL TUBULAR SUPPORT ARMS. ALL STAINLESS STEEL POLISHED TO LUSTROUS SATIN FINISH WITH HIGH SHINED OUTER EDGE. FLEX-GUARD SAFETY BUBBLERS, AND FRONT PUSH FRONT PUSH BARS. PROVIDE MCGUIRE P-TRAP AND SUPPLIES 8902 AND 158LK. UNIT SHALL BE PROVIDED WITH A BOTTLE FILLER.

NOTES:
1. ACCEPTABLE ALTERNATIVE MANUFACTURERS PROVIDED FOR EACH FIXTURE IN PARENTHESIS.

DRAINAGE FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL NO.	TYPE	MATERIAL	STYLE	SIZE	REMARKS
FD-1	FLOOR DRAIN	ZURN	EZ-PV2	NO HUB OR NEO-LOCK	PVC BODY / NICKEL BRONZE TOP	POLISHED ROUND TOP	PER DWGS	PVC SOLVENT WELD BODY WITH BOTTOM OUTLET AND 1/2" TRAP PRIMER CONNECTION KNOCK-OUT PLUG AND TOP ASSEMBLY. FLOOR DRAIN SHALL HAVE UP TO 1" OF VERTICAL POST POUR ADJUSTMENT, PRE-PACKAGED SHIMS FOR TILT CORRECTION, AND INTEGRATED SELF CONTAINED STRAINER.
FD-2	SHOWER DRAIN	ZURN	EZ-PV2	NO HUB OR NEO-LOCK	PVC BODY / NICKEL BRONZE TOP	POLISHED ROUND TOP	PER DWGS	PVC SOLVENT WELD BODY WITH BOTTOM OUTLET AND AND TOP ASSEMBLY. FLOOR DRAIN SHALL HAVE UP TO 1" OF VERTICAL POST POUR ADJUSTMENT, PRE-PACKAGED SHIMS FOR TILT CORRECTION, AND INTEGRATED SELF CONTAINED STRAINER.

ELECTRIC WATER HEATER SCHEDULE

MARK	MAKE & MODEL NO.	KW PER ELEMENT	NUMBER OF ELEMENTS	VOLTS/PH	TOTAL KW	RECOVERY (GPH) @ 72F	STORAGE (GAL.)	DIMENSIONS (D"xH") / LBS
EWH-1	AO SMITH DEN 80	4.5	2	208/1	9	52	80	24"x60" / 215

NOTES:
1. APPROVED ALTERNATE MANUFACTURES: LOCHINVAR / RHEEM / BRADFORD WHITE
2. INSTALL PER MANUFACTURER GUIDELINES.
3. PROVIDE EXPANSION TANK EQUIVALENT TO AMTROL THERM-X-TROL ST-12-C.
4. HEATING ELEMENTS SHALL OPERATE IN SIMULTANEOUS CONFIGURATION.
5. ALUMINUM WATER HEATER DRAIN PAN EQUIVALENT TO OATEY 34095. (22 GAUGE ALUMINUM, WITHOUT FITTING HOLE, 2-1/2" DEPTH)

HOT WATER RECIRCULATING PUMP SCHEDULE

MARK	MAKE & MODEL NO.	TYPE	CAPACITY (GPM)	HEAD (FEET)	MOTOR HP	V/PH/HZ
CP-1	TACO-008-IQSF6-IFC	INLINE	0-13	0-14.5	1/25	115/1/60

NOTES:
1. INSTALL PER MANUFACTURER GUIDELINES.
2. INCLUDE AQUASTAT AND PROGRAMMABLE TIMER FOR DOMESTIC WATER PUMP OPERATION.

SUMP PUMP SCHEDULE

MARK	TYPE	CAPACITY (GPM)	HEAD (FEET)	MOTOR HP	MOTOR VOLTAGE PHASE / HERTZ	MOTOR RPM	MANUFACTURER	MODEL NO.
SP-1	SIMPLEX	50	20	1/2	115/1/60	1750	HYDROMATIC	SP50

NOTES:
1. INSTALL PER MANUFACTURER GUIDELINES.
2. PROVIDE WITH OIL SMART PUMP SWITCH AND OIL SMART ALARM PANEL.

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BALDWIN ROOFING CO.

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE: 05/30/2025
DESIGNED BY: KJD
DRAWN BY: KJD
CHECKED BY: KJD

DRAWING TITLE:
PLUMBING SCHEDULES

SHEET NO:
P501

PLUMBING SPECIFICATIONS

A. It is the intent of these specifications to define the work and materials typically installed by a Plumbing Contractor. However, it is not intended to define a subcontract between the Plumbing Contractor and the General Contractor. The General Contractor is responsible for the entire project and any questions regarding the scope of work shall be directed to the General Contractor.
B. Work shall include all labor, materials, fixtures, equipment, tools, and service necessary for installation. Testing and adjusting of all plumbing systems shall be furnished and installed in compliance with the Drawings, Specifications, and any Addenda thereto.
C. Drawings and Specifications shall be understood to cover, according to their intent and meaning, the complete plumbing systems. Work shown and not specified, or work specified and not shown shall be performed as though mentioned in both.
D. Minor items and accessories reasonable inferred as necessary for the complete and proper operation of any system shall be provided by the subcontractor for each system whether or not they are specifically called for.
E. Before submitting a bid, the Plumbing Contractor shall coordinate with the utility company to ascertain, in detail, the division of work and the extent of performance by the Utility Company shall be furnished and the extent of performance shall be performed by the Plumbing Contractor.
F. All work shall be performed or installed in strict accordance with the appropriate regulations and codes of local state and Federal Governments having lawful jurisdiction. Each subcontractor shall be responsible for such compliance
G. Fees for permits, inspections, patent use, royalties, etc. shall be paid by the subcontractor.
   1. Furnish all equipment and personnel and conduct all tests required to secure approval of the installation.
   2. Any repairs or changes required to secure the approval of the installation shall be done at no additional expense to the Owner.
H. Upon completion of each part of the plumbing system, the subcontractor shall demonstrate to the Engineer that each item on that system is installed with proper covers, safeties, controls, etc. and that all are in proper working order.
I. A set of "red-lined" as-built plumbing drawings shall be carefully maintained at the job site. Actual conditions are to be put on the drawings in red on a daily basis so the drawings will continuously show locations of equipment and routing of all pipe systems.
J. Equipment and materials shall be new and meet or exceed specification requirements.
   1. All product shall be current model for which replacement parts are available.
K. Acceptable manufacturers are listed, additional manufacturers may request approval for their products up to 10 days in advance of bid. Engineer may require supplemental information prior to accepting or requesting and alternate.
L. All work shall be performed in compliance with OSHA regulations.
M. Shop drawings and product data shall be submitted on all equipment, fixtures, etc.
   1. Submittals shall include all equipment to be installed by the subcontractor.
   2. All submittals shall be submitted for review.
   3. Each package must have the General Contractors review stamp prior to submission to engineer.
   4. The engineer will review one submittal and one resubmittal; subsequent resubmittals may require a review charge to be paid by the subcontractor.
   5. Shop drawings shall be labeled in the same designation as the drawings.
N. Job conditions shall be inspected to determine prior to bidding in the following manner:
   1. Site Visit to determine:
      a. How and where materials will be delivered and stored.
   2. Examine all Contract Drawings and Specifications to determine:
      a. Type of construction to be used.
      b. How construction or work will affect the work of this Section.
      c. Nature and extent of work of other trades.
O. Installation
   1. Contract drawings show the arrangements and sizes of principal apparatus and devices to be provided under this Contract and connection thereto. These shall be followed as closely as actual building construction will permit.
   2. Dimensions of work as indicated on Plans are not guaranteed to be as-built dimensions.
   3. No measurements shall be scaled from Drawings and used as definite dimensions for layout or fitting work in place.
   4. Layout of equipment, as shown on the plans, shall be checked and exact location determined by dimension of equipment approved by Architect / Engineer.
   5. Consult the Drawings for all dimensions, locations of partitions, sizes of structural member, foundations, etc.
   6. Do not make final layouts until shop or equipment drawings are approved and job conditions are verified.
P. Excavation and Backfill:
   1. Plumbing Contractor shall include excavation, backfill, and compaction.
Q. Rough-in:
   1. Subcontractor shall rough-in for all equipment, fixtures, etc., in the building whether or not such equipment is furnished by this contractor or by the owner.
   2. Determine in advance the location and size of all openings and chases necessary for proper installation of all work and have openings and chases provided during construction.
   3. Install all inserts for hangers and supports for plumbing work and equipment as general construction progresses.
   4. Rough-in openings in masonry or stud walls shall be cut, not broken or chiseled.
   5. Sleeves shall be required at all points where piping passes through concrete walls, slabs, or masonry walls. Sleeves installed below grade or where subject to high water conditions shall be installed watertight.
R. Coordination:
   1. Work shall be coordinated between all Contractors, Subcontractors, Installers, Suppliers, Trades, etc., to:
      a. Insure a neatly fitted installation.
      b. Determine the nature and extent of work of others.
      c. Eliminate interferences.
      d. Maintain maximum headroom and clearances.
   2. Any interference which develops or is foreseen and cannot be resolved by the affected trades, etc. shall be handled as follows:
      a. Cease installation of that portion of the work which is in conflict as no additional compensation will be allowed for any removal and / or relocation.
      b. Continue work only on other portions of the work area which are not in conflict.
      c. Notify the architect / engineer immediately.
      d. Architect / Engineer's decision shall be final as to any relocation, rerouting, removal, etc.
      e. No additional compensation will be allowed for removal, relocation, repairs, or changes required by interferences.
S. Clear away all debris, surplus materials, etc., resulting from work on operations, leaving job and equipment in clean first-class condition.
T. Where factory finish is provided on equipment, all marred or damaged surfaces shall be touched-up or refinished hereunder as approved.
U. All plumbing fixtures shall be thoroughly cleaned of all plaster, stickers, rust stains, and other foreign matter, and be left ready for use.
V. Surfaces of all floor drains, cleanouts, and other equipment shall be cleaned and left in fire-class condition.

CHLORINATION OF DOMESTIC WATER LINES

A. Disinfection of water piping which shall carry potable water or any other piping connected thereto which is not separated by a backflow preventor.
B. Disinfection shall be chlorine, either in the form of hydrochlorite solution or in the form of compressed gas applied through an approved chlorinator.
C. After completion of all tests, replacement, and repairs, all water supply systems shall be thoroughly flushed with water to remove sediment and/or debris.
D. Begin disinfection only after flushing the system.
E. The system shall be filled with a solution containing 50 parts per million available chlorine and allowed to stand for 24 hours, or as required by local authorities whichever is greater.
F. During Chlorination all valves and equipment shall be operated to ensure that chlorine reaches all parts of the system.
G. Following disinfection all treated water shall be flushed from the system through its extremities until the quality of water delivered is comparable with the quality of the public water supply and satisfactory to the public health authority having jurisdiction.
H. Disinfection and flushing shall be repeated if samples taken daily over a period of three days show that water quality is not being maintained.
I. Samples shall be taken on from taps located and installed in such a manner that they will not contribute any contamination.
J. Samples shall not be drawn from hydrants or through unsterilized hoses.
K. If disinfection and flushing has been repeated three times and water quality cannot be maintained, the architect / engineer shall have the authority to require disassembly of piping as deemed necessary to determine the cause of contamination.
   1. Any disassembly, cleaning, or repair shall be performed at no additional cost to the owner.
   2. Disinfection, flushing, and testing shall be repeated upon reassembly of the piping.

PIPE AND FITTINGS

A. Refer to "PIPING SCHEDULE" on drawings.
B. Any manufacturer engaged in the production of pipe, fittings, and associated materials, and who test, inspect, and certify that said materials that meet or exceed the ASTM designation for that material shall be acceptable.
C. Inspection for Underground Piping:
   1. Examine areas to receive underground piping for:
      a. Complete excavation to elevations and slopes required.
      b. Obstructions which would interfere with drainage system installation.
   2. Begin work only when conditions are satisfactory.
D. Inspection for Above Ground Piping:
   1. Examine area to receive piping for:
      a. Obstructions.
      b. Work to be done prior to construction.
      c. Work of other trades in other areas.
   2. Begin work only when conditions are satisfactory.
E. Installation of Underground Piping
   1. Excavation:
      a. Excavate trenches of sufficient width for proper installation of pipe.
      b. Sheet and brace trenches as necessary to protect installers and adjacent structures.
      c. Comply with current OSHA standards.
   2. Final grading of trench:
      a. Perform final grading of trench bottoms by hand tools; carry machine excavation only to such depth that soil bearing for pipes will not be disturbed.
      b. Grade bottom of trenches evenly to ensure uniform bearing for all piping.
      c. Cut holes as necessary for joint making.
      d. Keep trenches free from water while construction is in progress.
      e. Use surveyor's level to establish elevations and grades.
      f. Machine excavation shall be held a sufficient distance from foundations and footings.
      g. Provide and maintain barricades and temporary bridges around excavations as required to maintain a safe work environment.
      h. Water lines may be benched above sanitary lines in same trench so long that they are 18 inches or more above the sanitary line.
      i. Minimum bury depth for water piping shall be 24 inches.
      j. Grade horizontal drainage 1/4" per foot minimum.
      k. Install same type material specified for inside the building to 8 feet outside the building.
   3. Backfill & Compaction:
      a. Backfill for all sewer and water lines shall be placed in accordance with manufacturer's printed instructions.
      b. Backfill and compact trenches only after piping has been inspected.
F. Installation of Above-Ground Piping:
   1. Pipe supports:
      a. Support piping as specified by pipe hanger and supports section for permanent installation.
      b. Pipe shall be adequately supported during construction with blocking or slings to prevent injury to personnel or damage to equipment / materials.
   2. Piping:
      a. Run piping true and level
      b. Run vertical piping straight and tight to wall when where available.
      c. Run piping with as few elbows and bends as possible.
      d. Group piping wherever practical at common elevations.
      e. Install concealed pipes close to building's structure to keep furring to a minimum.
      f. Slope water piping 1 inch per 40 feet and arrange to drain at low points.
      g. For closed systems, equip low points with a 3/4" drain valve and hose nipple.

PLASTIC PIPE AND FITTINGS

A. Domestic Water Supply – All
   1. CPVC per ASTM D2846
   2. Joints:
      a. Glued per manufacturers recommendations.
   3. Fittings: CPVC
B. Vent Piping (Above Grade)
   1. Piping shall be PVC – ASTM D-1784-60T
      a. Schedule 40
      b. Type 1, Grade 1
      c. Pipe shall bear NSF seal and ASTM designation.
   2. Joints:
      a. Bonded joints using adhesive per manufacturer's recommendations.
   3. Fittings:
      a. PVC – ASTM D-2665-69
      b. ABS – ASTM D-2661-69
C. Sanitary Piping
   1. PVC
      a. Schedule 40
      b. Type 1, Grade 1
      c. Pipe shall bear ASTM designation and NSF seal.
   2. Joints:
      a. Bobded joints using adhesive per manufacturer's recommendations.
   3. Fittings
      a. PVC – ASTM D-2665-69

TRAPS

A. General
   1. All fixtures shall be trapped according to the Florida Building Code – Plumbing
   2. All traps shall be the same size as the pipe in which they are installed or as sized on the drawings.
   3. All traps above grade shall have a clean-out plug in the bottom of the tap.
   4. All traps above grade shall be PVC
   5. All traps below grade shall be PVC or Palyethylene where noted.
   6. No trap below grade shall be less than 2 inches.
   7. No fixture shall be double trapped.

SHOCK ABSORBERS

A. Furnish and install shock absorbers on all domestic water piping as shown on drawings and/or as specified in this section.
B. Acceptable Manufacturers
   1. Wade
   2. Josam
C. Description
   1. Heavy duty casing
   2. Minimum burst pressure – 4500 psig
   3. Nested bellows with built in stop.
   4. Operating temperature 100 to 300 degrees F
   5. Permanently sealed charge of non-combustible gas.
   6. All stainless steel.
   7. Designed and built in accordance with plumbing and drawing standard PDI-WH201.
D. Model Numbers (Zurn used for reference only)
   1. SS-1; Model 1250-A-1/2"
   2. SS-2; Model 1250-B-3/4"
   3. SS-3; Model 1250-C-1"
   4. SS-4; Model 1250-D-1"
   5. SS-5; Model 1250-E-1"
   6. SS-6; Model 1250-F-1"

PIPING HANGERS AND SUPPORTS

A. All piping shall be supported by piping hangers, clamps, clips, or supports as specified in this section.
B. All clevis type hangers shall have a minimum of 1-1/2" of vertical adjustment by using turnbuckles and/or threaded rods.
C. All adjustments shall be positively secured by a locknut or setscrew.
D. Hangers shall support the pipe size for which they are manufactured.
E. Acceptable Manufacturers
   1. Grinell
   2. Fee and Mason

PIPE AND FITTINGS

F. All clamps, hangers, clevis, etc. shall be steel.
G. Pipe hangers in direct contact with copper shall be copper or lead plated, or of an approved dielectric material.
H. Installation:
   1. All piping shall be supported from structural building members, IE block, beams, columns, purlins, floor joists, etc.
   2. Piping shall not be supported from ceiling tile or grids, conduit, mechanical equipment, ductwork, or non-structural steel.
   4. Hangers for piping run flush along walls shall utilize stamped steel straps similar to conduit straps for pipes sizes 2" and smaller.
   5. Hangers for piping run flush along walls shall be steel wall brackets with steel clevis type hangers and threaded rod supports for pipe over 2".
   6. Hangers for piping not run along walls shall be clevis type hangers and threaded rod supports for all piping over 3/4".
I. Spacing:
   1. Vertical runs of piping not over 15 feet long shall be supported by hangers placed not over one foot from elbows or connecting horizontal run.
   2. Hangers shall be placed so as to prevent sag and permit proper drainage.
   3. Hangers shall not be placed at more than a maximum distance as shown on the table below.

Pipe Size	Max. Span (Ft.)
1/2" and 3/4"	6'
1" and 1-1/4"	8'
1-1/2", 2", 2-1/2"	10'
3" and 4"	12'
5" and 6"	14'
8" and larger	16'

   4. Concentrations of valves and fittings will require closer spaces than outlined above.
J. Hanger Attachments:
   1. Pipe hangers shall be attached to structural steel by heavy steel clamps.
      a. Clamps shall be bolted to steel.
   2. Piping hangers or clamps shall be attached to walls by means of expansions bolts (shields).

UNIONS

A. Size
   1. All unions shall be the same size as the line in which they are installed unless noted otherwise.
B. Location
   1. Unions shall be located between the shut-off valve and each of the following:
      a. Inlet and outlet to all water heaters
      b. Lavoratories and Sinks
      c. Water Coolers
      d. Water closets and toilets
      e. Inlet and Outlet of Cooling Coil
      f. Inlet and outlet of pumps
   2. Where final fixture connection is made by compression-type fitting, unions shall not be required.
      a. This exception does not apply to the water heater.
C. Acceptable Manufacturers
   1. Crane
   2. Jenkins
   3. Vogt
   4. Stockman
D. Unions for 2-1/2" and smaller copper
   1. Brass ground joints, brass body.
   2. Rated for 150#
   3. Sweat to threaded to match the system in which they are installed.
E. Install in locations where wrenches can be used on each half of the union with enough clearance for at least 180 degree rotation on a 6" pipe wrench.

VALVE, COCKS, AND FAUCETS

A. Hot, Cold, and/or Tempered Water
   1. Shutoff valves above grade
      a. Bronze Gate Valve
   2. Shutoff valve below grade
      a. Bronze Gate Valve – Install in fiberglass box with cover.
   3. Drain valves
      a. Bronze Gate Valve
B. Acceptable Manufacturers
   1. Crane
   2. Vogt
   3. Sterling
   4. Nibco
C. Bronze gate valves:
   1. 3" and smaller
      a. Rising stem, wedge disc gate, bronze body
      b. 200 psi, water, oil, gas
      c. Stuffing, box and brass gland, screw-in bonnet
      d. Threaded ends
      e. Model equal to Nibco T-111
D. Bronze Globe Valve
   1. 3" and smaller
      a. Rising stem, bronze only
      b. 150 psi, water, oil, gas
      c. Stuffing box, brass gland, screw-in bonnet
      d. Threaded ends.
E. Hose Bibbs
   1. 3/4" Female thread inlet
   2. 3/4" Male thread hose outlet
   3. Rough chrome plated
   4. Loose-key type
   5. Provide with vacuum breaker
   6. Model
      a. Equal to Chicago No. 3877-E27, Nibco 763-LS, or equal
   7. Provide with vacuum breaker.
F. Check Valve
   1. Swing check valve
   2. Screwed ends and cap
   3. Bronze ground disc
   4. 200 lb WOG
   5. NIBCO T413 or equal

PRESSURE – TEMPERATURE RELIEF VALVE

A. Supply a pressure relief valve on each hot water heater and hot water booster tank.
B. Valve size, pressure, and temperature rating shall be specified by the tank manufacturer. In no case shall the valve be smaller than 3/4" inlet and outlet.
C. Valve shall have a handle for manual operation and testing.
D. Valve shall be cast brass or bronze.
E. Pipe the outlet of the pressure-temperature relief valve to the adjacent mop sink via an indirect connection.

INSULATION

A. Provide piping insulation on all designated on the Piping Schedule as shown on drawings and pre the Florida Energy Code. Minimum R4 per inch of insulation.
B. Acceptable Manufacturers
   1. Johns-Manville
   2. Certainteed
C. Fiberglass Insulation
   1. Rigid lightweight heavy density fiberglass with jacket.
   2. Temperature applications to 650 degrees F.
   3. Insulation, jacket, and adhesive shall be tested under procedure ASTM E-84, NFPA 255, and UL 723, not exceeding the following flame and smoke index.
      a. Flame Spread: 25
      b. Smoke developed: 50
   4. Equal to Johns-Manville Micro-Lok 650 AP-T.
D. Install insulation only after pipe has been thoroughly inspected and tested and accepted by the Architect / Engineer and State or local inspectors.
F. All surface to receive insulation shall be cleaned of all dirt, grease, and moisture prior to installing any insulation.
G. Installation of Fiberglass Insulation:
   1. All insulation shall be continuous through wall and ceiling openings.
   2. Vapor barrier jackets shall be used on piping except domestic hot water.
   3. Hangers, supports, anchors, etc., that are secured directly to cold surfaces must be adequately insulated and vapor sealed to prevent condensation.
   4. Metal shields shall be applied between hangers and supports and the pipe insulation.
   5. Shields shall be formed to fit the insulation and shall extend up to the centerline of the pipe and shall be a minimum of 12" long.
   6. Shields shall be 16 gauge sheet metal. Shields exposed to corrosive environments or installed outdoors shall be aluminum.
   7. Fittings shall be covered with equivalent density insulation and covered with preformed PVC insulation fitting covers.
      a. Wrap fittings with insulation.
      b. Pop the preformed cover in place, tape or tack.

FLOOR AND SHOWER DRAINS

A. Acceptable Manufacturers:
   1. Wade
   2. Josam
   3. Zurn
B. Floor Drains:
   1. Cast iron floor drain with integral clamping collar
   2. Seepage openings
   3. Heavy duty grate, with vandalproof screws
   4. Square top, polished brass
   5. Adjustable top
   6. 4-inc outlet unless otherwise noted on drawings
   7. Model – equal to Wade series W-1390 or scheduled drain.
C. Installation
   1. Floor drains shall be installed in locations shown on floor plans.
   2. Care shall be taken that rim of floor drain is not higher than the finished floor in order to prevent puddling of water around the drain.
   3. Floor drain top shall be flush with finished floor.

CLEANOUTS AND ACCESS COVERS

A. Provide cleanouts as shown on drawings or as required by the Florida Plumbing Code.
B. Acceptable Manufacturers
   1. Wade
   2. Josam
   3. Zurn
C. Floor Cleanouts
   1. Same size as drain pipe through 4 inches.
   2. Adjustable housing to match finished floor
   3. Heavy duty top.
   4. Nickel brass secured cover
   5. Ferrule as required to match soil pipe
   6. Cast iron
   7. Cover shall be marked "C.O."
   8. Model Number:
      a. Synthetic floor covering: Wade W-7030-D Series or Equal
      b. Finished Slab – no covering: Wade W-7030 Series or Equal
D. Concealed Cleanouts:
   1. Cleanouts in crawl space or in unfinished mechanical rooms.
   2. Cast iron cleanout tee on T-wall with ferrule fitting and neoprene seal raised plug head.
   3. Same size as drain pipe through 4 inches.
   4. Position cleanout plug for easy access by electric eel.
   5. Model number: Cleanout Ferrule: Wade W-8530-B series or Equal.
E. Exposed Wall Cleanouts
   1. Same size as pipe.
   2. Polished chrome cleanout cover over wall opening.
F. Install all cleanouts and coverplates flush with the finished floor in which they are installed.
   1. Any cleanout which presents a tripping hazard due to improper installation shall be removed and reinstalled.

DOMESTIC WATER HEATERS – ELECTRIC

A. Water heaters shall be UL listed, ASME constructed, and meet ASHRAE 90.1 energy efficiency standards.
B. Electric Water Heaters
   1. Glass lining fused to steel tank
   2. Screw-in type, direct immersion
   3. Working pressure – 150 PSI
   4. Fully automatic thermostat controls with high temperature limit safety shutoff
   5. Screw-in anode corrosion protection
   6. Three-year warranty
   7. 3/4" inlet, outlet, and relief opening
   8. Outer jacket of backed enamel finish
C. Model and Capacity
   1. Refer to electric water heater schedule
D. Install per manufacturer's recommendations
E. Provide thermostatic relief valve on each unit.

PLUMBING FIXTURES

A. Furnish and install plumbing fixtures per the Plumbing Fixture Schedule
   1. Manufacturers and Model Numbers establish quality; equivalent fixtures by other manufacturers are acceptable.

ELECTRIC WATER COOLERS (EWC)

A. Acceptable Manufacturers
   1. Oasis
   2. Halsey Taylor
   3. Elkay
B. Dual Height (Unless otherwise noted)
   1. Semi-recessed
   2. Stainless steel top, sides, and front.
   3. 14 inches from wall to front.
   4. Self-closing pushbutton valve with optional "soft touch" handle
   5. Automatic pressure regulating valve
   6. Mounting height – 31" floor to top of basin.
   7. Water delivery:
      a. 14 GPH @ 50 degree F water
   8. Model and Manufacturer: Refer to plumbing fixture schedule
   9. Accessories:
      a. Furnish with 1-1/4" ground joint tubular, 17 gauge, chrome-plated P-trap, deep flange with brass nuts; less cleanout, sterling 50190 or Dearborn 207-D-F-BN.
      b. Furnish with supply assembly equal to Kohler 7666 with loosekey stop and flexible 3/8" tube risers.
      c. Furnish with bottle filler.
C. Unit shall be installed on wall using in-wall carrier supplied by the manufacturer.
D. Unit shall be blocked and supported per manufacturer recommendations.
E. Unit shall be installed per ANSI Standard 117.1-1980, Section 4.15

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PROFESSIONAL ENGINEER

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BALDWIN ROOFING CO.
ROOFING CO
BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST. PETERSBURG
FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE:	05/30/2025
DESIGNED BY:	KJD
DRAWN BY:	KJD
CHECKED BY:	KJD

DRAWING TITLE:
PLUMBING SPECIFICATIONS

SHEET NO:
P601

FIRE PROTECTION COMPLIANCE NOTES

BUILDING DESIGN:

NEW TWO STORY CMU OFFICE BUILDING WITH A HYDRAULIC ELEVATOR. BUILDING INCLUDES AN ATTACHED SINGLE STORY METAL BUILDING WAREHOUSE.

SCOPE OF WORK:

PROVIDE A FULLY AUTOMATIC WET SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 (2019). ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE. SPRINKLER CONTRACTOR SHALL USE EXTRAPOLATED FLOW DATA WHEN PERFORMING HYDRAULIC CALCULATIONS.

THE POINT OF SERVICE AND WATER SUPPLY FOR THE FIRE SUPPRESSION SYSTEM OF THIS BUILDING SHALL BE SUPPLIED BY THE SITE FIRE MAIN. REFER TO CIVIL SITE PLAN FOR CONTINUATION.

FLOW TEST:

LOCATION: 9400 BLK 16 ST. NO.
DATE: 10/23/2024
TESTED BY: GREG JONES

STATIC PRESSURE: 72 PSI
RESIDUAL PRESSURE: 70 PSI
PILOT READING: 50 PSI
FLOW: 1190 GPM

QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL INTERIOR FIRE PROTECTION COMPONENTS:

ALL NEW INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED AND/OR FM APPROVED.

ACCEPTANCE TEST CRITERIA:

FIRE SPRINKLER SYSTEM SHALL BE DESIGNED PER NFPA 13 (2016) AND SHALL COMPLY WITH THE LOCAL FIRE MARSHAL AND ALL AUTHORITIES HAVING JURISDICTION. THE ACCEPTANCE TESTING OF THE FIRE SPRINKLER SYSTEM AND IT'S COMPONENTS SHALL CONSIST OF ALL APPLICABLE ITEMS SHOWN ON THESE (2) FORMS. NFPA 13 (2016), CHAPTER 24 (FIG 24.1) CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVE GROUND PIPING. REFER TO NFPA 13 (2016) AND CHAPTER 24 FOR SYSTEM ACCEPTANCE AND CHAPTER 26 FOR INSPECTION TESTING AND MAINTENANCE.

A. CHAPTER 24, SYSTEM ACCEPTANCE.
B. 24.1 APPROVAL OF SPRINKLER SYSTEMS
C. 24.2 ACCEPTANCE REQUIREMENTS
D. 24.3 CIRCULATING LOOP
E. 24.4 INSTRUCTION
F. 24.5 HYDRAULIC DESIGN INFORMATION SIGNS

APPLICABLE NFPA STANDARDS TO BE APPLIED:

A. FLORIDA BUILDING CODE – 2023
B. FLORIDA FIRE PREVENTION CODE – 2023
C. NFPA 13 – 2019 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
D. NFPA 14 – 2019 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
E. NFPA 24 – 2019 – STANDARD FOR INSTALLATION OF FIRE SERVICE MAINS.
F. NFPA 25 – 2020 – INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEM
G. NFPA 101 – 2021 – LIFE SAFETY CODE

CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA TYPE:

LIGHT HAZARD: LOBBY, CORRIDORS, MEETING ROOMS, OFFICES, BREAK AREA, AND RESTROOMS.

ORDINARY HAZARD GROUP 1: STORAGE ROOMS, MECHANICAL ROOMS, ELECTRICAL ROOMS, JANITOR CLOSETS.

DESIGN APPROACH:

SPRINKLER SYSTEM SHALL EXTEND INTO ALL AREAS IN ACCORDANCE WITH NFPA 13 LIGHT HAZARD CLASSIFICATION OR AS NOTED. LISTED AND APPROVED SIDEWALL (5.6 K-FACTOR) AND PENDENT (5.6 K-FACTOR) SPRINKLER HEADS TO BE PROVIDED. UPRIGHT (5.6 K-FACTOR) HEADS TO BE PROVIDED WHERE NOTED ON DRAWINGS.

LIGHT HAZARD:

SYSTEM TYPE: WET PIPE AUTOMATIC SPRINKLER SYSTEM, STEEL SUPPLY PIPING TO NEW QUICK RESPONSE PENDENT OR UPRIGHT HEADS.

K-FACTOR: 5.6 (EXTENDED COVERAGE SPRINKLER HEADS ARE ACCEPTABLE)

DENSITY: 0.10 GPM/SQ.FT.

AREA OF OPERATION: 900 SQ.FT. MINIMUM AND 1500 SQ.FT. MAX (DESIGN AREA REDUCTION MAY ON BE USED IF CEILING HEIGHT AND AREA CLASSIFICATION PERMITS PER NFPA 13 (2016).

HEAD TEMPERATURE RATING: 155°T

SPACING: 225 SQ.FT. MAX PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE.

HOSE ALLOWANCE: 100 GPM

ORDINARY HAZARD GROUP 1:

SYSTEM TYPE: WET PIPE AUTOMATIC SPRINKLER SYSTEM, STEEL SUPPLY PIPING TO NEW QUICK RESPONSE PENDENT OR UPRIGHT HEADS.

K-FACTOR: 5.6, 8.0, 11.2, OR 14.0 (EXTENDED COVERAGE SPRINKLER HEADS ARE ACCEPTABLE)

DENSITY: 0.15 GPM/SQ.FT.

AREA OF OPERATION: 900 SQ.FT. MINIMUM AND 1500 SQ.FT. MAX (DESIGN AREA REDUCTION MAY ON BE USED IF CEILING HEIGHT AND AREA CLASSIFICATION PERMITS PER NFPA 13 (2016).

HEAD TEMPERATURE RATING: 155°T

SPACING: 130 SQ.FT. MAX PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE.

HOSE ALLOWANCE: 250 GPM

FIRE SPRINKLER LEGEND

SYMBOL	ORF	TEMP	RESPONSE	K-FACTOR	FINISH	MODEL	STYLE	PLATE	MFG.
●	1/2"	155°	QUICK	5.62	CHROME	F1FR	CONCEALED	WHITE	RELIABLE
○	1/2"	155°	QUICK	5.62	BRASS	F1FR	UPRIGHT	NONE	RELIABLE
⊠	1/2"	155°	QUICK	5.62	BRASS	F1FR	UPRIGHT	HD/GD	RELIABLE
◁	1/2"	155°	QUICK	5.62	CHROME	F1FR	HOR. SIDEWALL	WHITE	RELIABLE

1. ACCEPTABLE ALTERNATE MANUFACTURERS: VIKING / TYCO FIRE
2. SPRINKLER HEAD INFORMATION PROVIDED FOR REFERENCE. FP CONTRACTOR SHALL VERIFY SPRINKLER HEAD K-FACTOR REQUIREMENTS BASED ON FINAL HYDRAULIC CALCULATIONS

FLORIDA ADMINSTRATIVE CODE 61G15-32

1. THESE DRAWINGS HAVE BEEN PROVIDED IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE 61G15-32. THE PURPOSE OF THESE DRAWINGS IS TO MEET THE INTENT FOR THE MINIMUM ENGINEERING DRAWINGS IN ACCORDANCE WITH FAC 61G15-30. IN ADDITION, THE FIRE PROTECTION ENGINEERING DOCUMENTS ARE PROVIDED TO SET FORTH THE OVERALL DESIGN REQUIREMENTS AND PROVIDE SUFFICIENT DIRECTION FOR THE CONTRACTOR TO PROVIDE LAYOUT DOCUMENTS THAT MEET THE REQUIREMENTS OF FAC 61G15-32 AND NFPA 13 WORKING PLANS.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS THAT INCLUDE LAYOUT DRAWINGS, HYDRAULIC CALCULATIONS, DETAILS ON LOCATION OF RISERS, CROSS MAINS, BRANCH LINES, SPRINKLER HEADS, SIZING OF PIPE, AND HANGER LOCATIONS. THESE DOCUMENTS SHALL ALSO SERVE AS A GUIDE FOR PROCUREMENT AND INSTALLATION OF THE FIRE PROTECTION SYSTEM.
3. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NO INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE FIRE PROTECTION BE PROVIDED WITH ALL THE NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS THAT HAVE BEEN COMPLETELY COORDINATED WITH ALL DISOPLINES. ALL PARAMETERS PROVIDED IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRE FOR A COMPLETE FIRE PROTECTION SYSTEM, IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. THE SPRINKLER CONTRACTOR SHALL CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
4. FIRE SPRINKLER CONTRACTOR SHALL PROVIDE LAYOUT OF THE SYSTEM TO GIVE FULL CONSIDERATION TO BLIND SPACES, PIPING, STRUCTURAL ELEMENTS, ELECTRICAL EQUIPMENT, DUCTWORK, AND OTHER CONSTRUCTION UTILITIES AND EQUIPMENT. LOCATE SPRINKLER HEADS IN A CONSISTENT PATTERN WITH THE CEILING AND CEILING GRID (WHERE PROVIDED), LIGHTS, AND AIR DISTRIBUTION DEVICES.
5. DESIGN ENGINEER NO CONTROL OVER THE WATER SUPPLIES QUALITY, OR AVAILABILITY, AND CANNOT GUARANTEE THAT THE FLOW TEST RESULTS WILL REMAIN VALID FOR ANY LENGTH OF TIME.
6. SCOPE OF FIRE PROTECTION DRAWINGS STARTS WITH ENTRANCE INTO BUILDING. ANY PIPING OR UTILITIES SHOWN ON SITE ARE FOR REFERENCE ONLY.
7. THE BACKFLOW PREVENTER AND METERING SPECIFICATIONS SHALL MEET OR EXCEED REQUIREMENTS OF THE LOCAL WATER PURVEYOR. THE BACKFLOW PREVENTER SHALL BE LISTED FOR FIRE PROTECTION USE.
8. WITH EXCEPTION TO THE POINT OF ENTRY INTO THE BUILDING, THE ENTIRE FIRE PROTECTION SYSTEM SHALL BE LOCATED ABOVE GRADE WITHIN THE BUILDING.
9. ALL MATERIAL AND DEVICES SHALL BE UL LISTED. CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR REVIEW PRIOR TO INSTALLATION. THE FIRE SPRINKLER SYSTEM CONTROL VALVES AND WATER FLOW SWITCHES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM AND MONITORED BY A UL LISTED MONITORING SYSTEM.

FIRE PROTECTION GENERAL NOTES

1. FIRE PROTECTION SYSTEM SHALL COMPLY WITH NFPA 13 (2019), NFPA 25 (2020), APPLICABLE STATE & LOCAL CODES, AND LOCAL AHJ REQUIREMENTS FOR INSTALLATION OF SPRINKLER SYSTEMS, INSPECTION, TESTING, AND MAINTENANCE.
2. SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER AND STATE FIRE MARSHALL AND SHALL BE APPROVED PRIOR TO INSTALLATION. THE ENGINEER OF RECORD SHALL HAVE THE RIGHT TO REJECT ANY SUBMITTALS.
3. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
4. FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER EXISTING TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS TO AVOID OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.
5. FIRE STOP ALL PENETRATIONS OF FIRE/SMOKE WALLS, CEILINGS, FLOORS, ROOFS, ETC. FLASH AND COUNTERFLASH ROOF PENETRATIONS.
6. PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
7. SPRINKLER HEADS SHALL BE COORDINATED WITH LOCATION OF ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, AND STRUCTURAL SYSTEMS.
8. INDICATE CENTER TO CENTER DIMENSIONS AND/OR PIPE CUT LENGTHS AND NOMINAL PIPE DIAMETERS ON ALL PIPING. INDICATE PIPE TYPE, SCHEDULE OF WALL THICKNESS, AND METHOD OF JOINING ON SHOP DRAWINGS.
9. PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH NFPA 13.
10. ALL HANGERS ON 4" PIPE AND LARGER SHALL BE CLEVIS-TYPE HANGERS. HANGERS SHALL NOT INTERFERE WITH ANY OTHER TRADE. POWDER DRIVEN STUDS SHALL NOT BE USED.
11. ALL GROOVED AND SCREWED FITTINGS SHALL BE UL/FM APPROVED AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION. THE ENGINEER OF RECORD RESERVES THE RIGHT TO DISAPPROVE ANY FITTING. ALL SCREWED PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE IN ACCORDANCE WITH ASTM A120 AND SHALL BE JOINED BY SCREWED JOINS IN ACCORDANCE WITH ANSI B2.1. ALL GROOVED PIPING 2-1/2" OR LARGER SHALL BE SCHEDULE 10 BLACK STEEL.
12. WELD-O-LETS SHALL BE TWO SIZES SMALLER THAN CROSS MAIN. NO LENGTH OF CROSS MAIN SHALL BE GREATER THAN 10'-0". ALL SPRINKLER PIPING & FITTINGS SHALL BE INSTALLED ABSOLUTELY RUST-FREE.
13. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS TO BE IN ACCORDANCE WITH NFPA 13.
14. ALL VALVES FOR FIRE SERVICE SHALL BE UL LISTED AND FM APPROVED. VALVES SHALL BE RATED FOR 175 PSI WORKING PRESSURE.
15. SPRINKLER COVERAGE SHALL COMPLY WITH MINIMUM NFPA 13 REQUIREMENTS. SPRINKLER LOCATIONS WITH RESPECT TO OBSTRUCTIONS SHALL COMPLY WITH NFPA 13, CHAPTER 8, OR THE APPROPRIATE CHAPTER BASED ON SPRINKLER TYPE.
16. IN CASE OF DISPUTE OR DOUBT AS TO THE INTENT OF THE DRAWINGS, OBTAIN ARCHITECT / ENGINEER WRITTEN CLARIFICATIONS BEFORE PROCEEDING WITH BID OR CONSTRUCTION.
17. PRIOR TO SUBMISSION PROPOSAL OR BID, CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT, THE AMOUNT OF SPACE AVAILABLE FOR PIPING AND EQUIPMENT, AND THE SCOPE OF THE SITE WORK.
18. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY, AND AFTER ASSEMBLY THE ENTIRE PIPING SYSTEM SHALL BE FLUSHED CLEAN.
19. ADJUST NEW SPRINKLER PIPING AND SPRINKLER HEAD PLACEMENT TO ACCOMMODATE CEILING HEIGHTS AND STRUCTURAL CONFIGURATIONS.
20. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK 4'-0" OR WIDER.
21. PROVIDE HAZARD COVERAGE FOR FUNCTIONS FOR EACH AREA.
22. INDICATE THE LOCATION AND SIZE OF BLIND SPACES AND CLOSETS.
23. INDICATE TOTAL SQUARE FOOT AREA PROTECTED BY SYSTEM(S).
24. ALL PENDENT SPRINKLERS SHALL BE CENTER OF TILE, UNLESS MAXIMUM DISTANCES FROM WALLS OR BETWEEN HEADS IS EXCEEDED OR UNLESS EXPLICITLY SHOWN DIFFERENT ON DRAWINGS. ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4" AWAY FROM ANY WALLS, CEILING GRID MEMBERS, CEILING HEIGHT CHANGES, OR ANY OTHER VERTICAL INTERSECTION SURFACE.
25. FIRE PROTECTION CONTRACTOR SHALL PREPARE COORDINATION DRAWINGS FOR ALL LEVELS WHICH SHOW ALL THE ENGINEERING DISCIPLINES & FIRE PROTECTION PIPING. THESE DRAWINGS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO ANY INSTALLATION.
26. FIRE SPRINKLER PIPING SHALL NOT TRAVEL OVER THE TOPS OF ELECTRICAL PANELBOARDS.
27. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS IN EACH AREA / SPACE.
28. ALL EXPOSED PIPING SHALL BE PAINTED RED.
29. ALL MATERIALS, WHERE APPLICABLE, SHALL BE U.L. LISTED OR FACTORY MUTUAL APPROVED FOR USE IN AUTOMATIC SPRINKLER SYSTEMS. ALL NEW PIPING SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS IN ACCORDANCE WITH NFPA 13. MINIMUM HYDROSTATIC TEST PRESSURE HALL BE 200 PSI.
30. THE SMALL ROOM RULE SHALL BE ACCEPTABLE FOR PLACEMENT OF SPRINKLERS PER NFPA 13-2016, 8.6.3.2.4.
31. UPON SPRINKLER SYSTEM IMPAIRMENT, NFPA 25-2017, 15.5.2 SHALL BE FOLLOWED DURING SPRINKLER SYSTEM DOWNTIME.

FIRE PROTECTION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	-OS&Y VALVE
	-GATE VALVE
	-BALL VALVE
	-ALARM CHECK VALVE
	-PRESSURE REGULATING VALVE
	-BUTTERFLY VALVE
F	-FLOW SWITCH
	-FIRE DEPARTMENT CONNECTION
	-FIRE PROTECTION RISER
	-PIPE TURNING DOWN
	-PIPE TURNING UP
TS	-TAMPER SWITCH
	-DEMO TO
	-CONNECT TO
FP / 1	-FIRE PROTECTION RISER DESIGNATION
A / B	-SECTION SYMBOL
XX	-REVISION REFERENCE
XX	-SHEET NOTE CALLOUT

FIRE PROTECTION ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AHJ	-AUTHORITY HAVING JURISDICTION	GPM	-GALLONS PER MINUTE
ANSI	-AMERICAN NATIONAL STANDARDS INSTITUTE	KW	-KILOWATT
ASTM	-AMERICAN STANDARDS TESTING MATERIALS	MAX	-MAXIMUM
DIA (ø)	-DIAMETER	MIN	-MINIMUM
DP	-DRY PENDENT	NP	-NOT APPLICABLE
DS	-DRY SIDE WALL	NFPA	-NATIONAL FIRE PROTECTION ASSOCIATION
ELEV	-ELEVATION	NTS	-NOT TO SCALE
°F	-DEGREES FAHRENHEIT	P	-PUMP
FDC	-FIRE DEPARTMENT CONNECTION	PH	-PHASE
FDV	-FIRE DEPARTMENT VALVE	PSI	-POUNDS PER SQUARE INCH
FM	-FACTORY MUTUAL	PS	-PRESSURE SWITCH
FP	-FIRE PROTECTION	QR	-QUICK RESPONSE
FS	-FLOW SWITCH	RM	-ROOM
FT	-FEET	RPM	-REVOLUTIONS PER MINUTE
GAL	-GALLON(S)	SF	-SQUARE FEET
GALV	-GALVANIZED	SPEC	-SPECIFICATIONS
GPM	-GALLONS PER MINUTE	SR	-STANDARD RESPONSE
HR	-HOUR	STD	-STANDARD
HYD	-HYDRANT	TEMP	-TEMPERATURE
HZ	-HERTZ	TS	-TAMPER SWITCH
IE	-INVERT ELEVATION	TYP	-TYPICAL
ID	-INTERIOR DIAMETER	UL	-UNDERWRITER'S LABORATORY
IN	-INCHES	V/PH	-VOLTS/PHASE
IPS	-INTERNATIONAL PIPE STANDARD	W/	-WITH

PROJECT CLOSEOUT

1. UPDATE AS-BUILT DRAWINGS TO REFLECT FINAL INSTALL CONDITIONS, INCLUDING DUCTWORK, PIPING, AND EQUIPMENT LOCATIONS. SUBMIT ONE COPY OF AS-BUILT DOCUMENTATION TO GENERAL CONTRACTOR, OWNER, AND ENGINEER OF RECORD.
2. PREPARE O&M MANUALS WITH EQUIPMENT SPECIFICATIONS, MAINTENANCE SCHEDULES, AND OPERATING INSTRUCTIONS. PROVIDE DIGITAL AND HARD COPIES TO THE OWNER.
3. CONDUCT TRAINING SESSIONS FOR THE OWNER'S MAINTENANCE STAFF (OR DIRECTLY TO OWNER) FOR SYSTEMS OPERATION, TROUBLE SHOOTING, AND MAINTENANCE.
4. PROVIDE ALL WARRANTY DOCUMENTATION FOR ALL EQUIPMENT IN A CONSOLIDATED LOCATION AND PROVIDE TO OWNER. COORDINATE SERVICE MAINTENANCE CONTRACT OPPORTUNITIES WITH OWNER. COORDINATE ANY EXTENDED WARRANTY OPPORTUNITIES WITH OWNER.
5. PROVIDE (5) SPARE SPRINKLER HEADS FOR EACH DIFFERENT TYPE OF HEAD UTILIZED.

SHEET INDEX

FP001	FIRE PROTECTION GENERAL NOTES, LEGEND, & SHEET INDEX
FP111	FIRE PROTECTION PLAN – FIRST FLOOR
FP121	FIRE PROTECTION PLAN – SECOND FLOOR

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BALDWIN ROOFING CO.
NEW OFFICE BUILDING
1500 94TH AVENUE NORTH, ST. PETERSBURG
FLORIDA, 33716

No.	Date	Revision

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SHEET NO:
FP001

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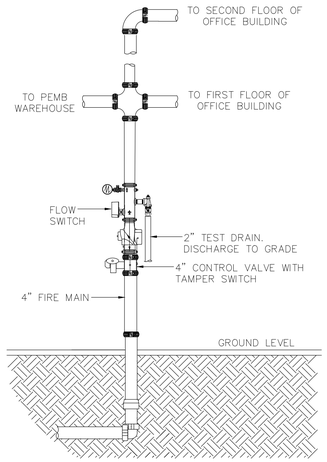
CA PROJ NO. 2503 PLOTTED: 5/29/2025 1:56 PM



FIRE RISER DETAIL

SCALE: NTS

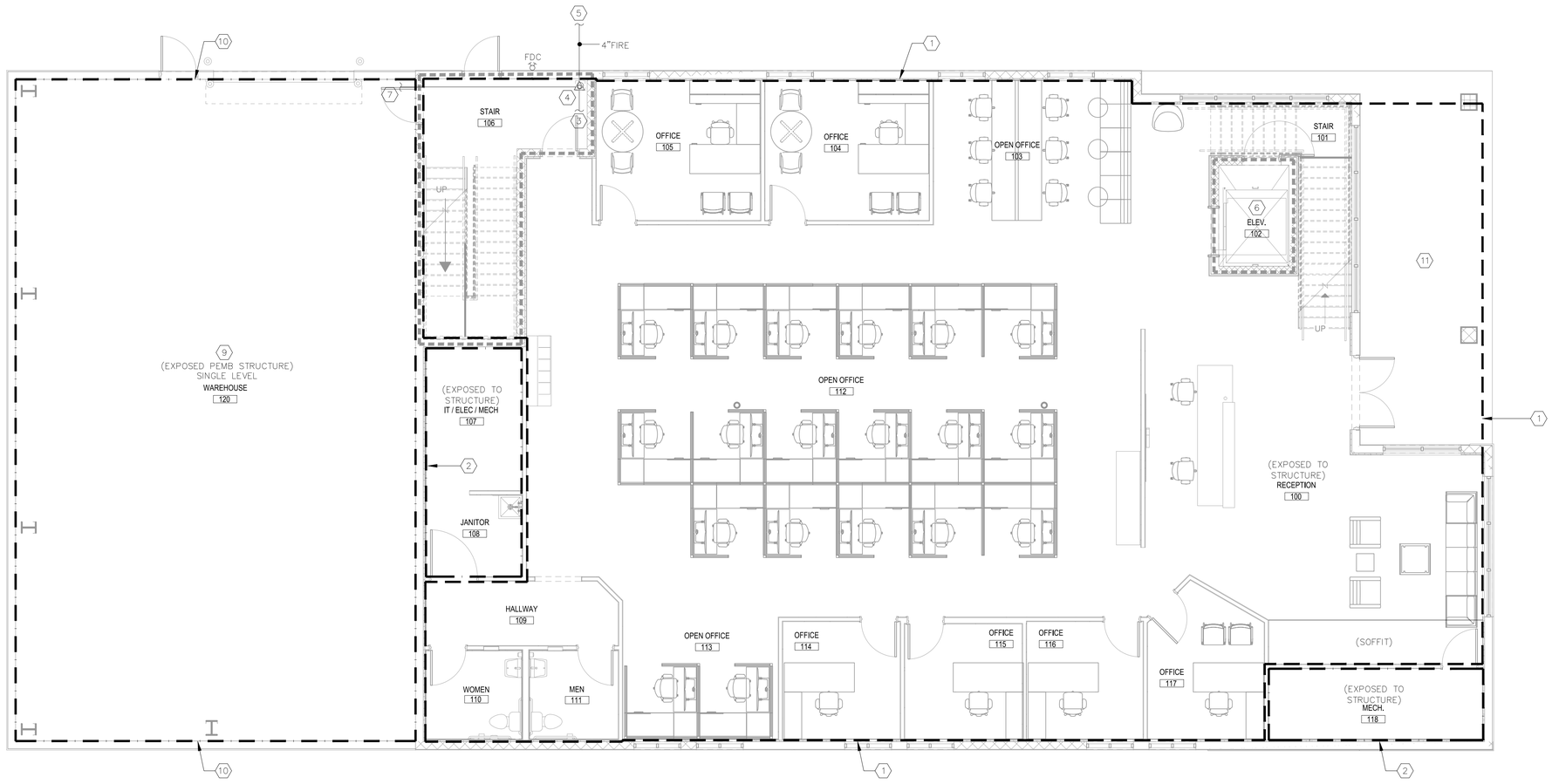
DRAWING NOTES:

1. ALL PIPING PENETRATIONS THROUGH RATED WALLS AND/OR FLOOR SLABS SHALL BE INSTALLED PER THE APPROPRIATE U.L. RATING FOR THE WALL / FLOOR CONSTRUCTION TYPE AND THE WALL / FLOOR RATING.
2. FIRE PROTECTION CONTRACTOR SHALL REVIEW ARCHITECTURAL REFLECTIVE CEILING PLANS FOR CEILING HEIGHTS, LOCATION OF SOFFITS, AND LOCATIONS OF EXPOSED CEILINGS.
3. FIRE RATED WALL, REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.
4. ALL CEILING AREAS SUCH AS RECEPTION AND MECH./ELECT./I.T. ROOMS WHERE STRUCTURE AND CEILING ARE TO REMAIN EXPOSED TO SPACE BELOW AS PART OF THE FINAL ARCHITECTURAL EXPRESSION MUST BE EXECUTED AND FINISHED TO HIGH QUALITY AND STANDARD OF WORKMANSHIP. ALL SUBCONTRACTORS TO COORDINATE ROUTING AND INSTALLATIONS TO ENSURE CLEAN, SQUARE, ORDERLY, AND PARALLEL ALIGNMENT WHERE POSSIBLE. WHEN INSTALLATIONS ARE COMPLETE ALL EXPOSED STRUCTURE, PIPES, CONDUITS, WIRING, DUCTS, ETC. IN THE EXPOSED CEILING AREAS TO BE PAINTED A UNIFORM COLOR TO BE SELECTED BY THE ARCHITECT.
5. UL 2443 LISTED FLEX CONNECTIONS SHALL BE UTILIZED FOR ALL SPRINKLER HEADS LOCATED IN A NON-EXPOSED CEILING.
6. SPRINKLER HEAD FINISH SPECS:

   WHITE ACT CEILINGS - WHITE FINISH
   BLACK ACT CEILINGS (TRAINING ROOM) - BLACK FINISH
   EXPOSED CEILINGS - BRONZE FINISH
   DRYWALL SOFFITS (WHERE REQUIRED) - CONCEALED PENDENT / WHITE FINISH

KEY NOTES:

1. PROVIDE A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM WITH A LIGHT HAZARD COVERAGE OF 0.10 GPM/SF OVER 1500 SF PER NFPA 13.
2. PROVIDE A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM WITH A ORDINARY HAZARD GROUP 1 COVERAGE OF 0.15 GPM/SF OVER 1500 SF PER NFPA 13.
3. CONTINUATION TO FIRE PROTECTION SYSTEM TO SERVE FIRST FLOOR AS DEVELOPED BY DELEGATED DESIGN ENGINEER.
4. NEW FIRE RISER WITH FLOW SWITCH, CHECK VALVE, TAMPER SWITCH, AND INSPECTOR TEST DRAIN.
5. REFER TO CIVIL PLAN FOR FIRE MAIN CONTINUATION TO NEW BACKFLOW PREVENTOR.
6. PROVIDE FIRE SPRINKLER HEAD AT BOTTOM OF ELEVATOR PIT.
7. CONTINUATION TO FIRE PROTECTION SYSTEM TO SERVE WAREHOUSE AS DEVELOPED BY DELEGATED DESIGN ENGINEER. PIPING SHALL BE ROUTED TIGHT TO BOTTOM OF FIRST FLOOR STRUCTURE AND RISE TO BOTTOM OF PEMB BUILDING STRUCTURE TIGHT TO WALL INSIDE WAREHOUSE.
8. FDC SPEC: STORZ 30-DEGREE FC FOR QUICK CONNECT COUPLING.
9. ALL MAIN AND BRANCH FP PIPING SHALL BE ROUTED TIGHT TO STRUCTURE.
10. PROVIDE A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM WITH A ORDINARY HAZARD GROUP 1 COVERAGE OF 0.2 GPM/SF OVER 1500 SF PER NFPA 13.
11. DESIGN INTENT IS FOR COVERED PATIO AREA IS FOR THE AREA TO BE PROTECTED UTILIZE SIDEWALL SPRINKLER HEADS.



FIRE PROTECTION PLAN - FIRST FLOOR

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

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PROFESSIONAL ENGINEER

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FLORIDA, 33716

No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE:	05/30/2025
DESIGNED BY:	KJD
DRAWN BY:	KJD
CHECKED BY:	KJD

DRAWING TITLE:
FIRE PROTECTION PLAN - FIRST FLOOR

SHEET NO:
FP111

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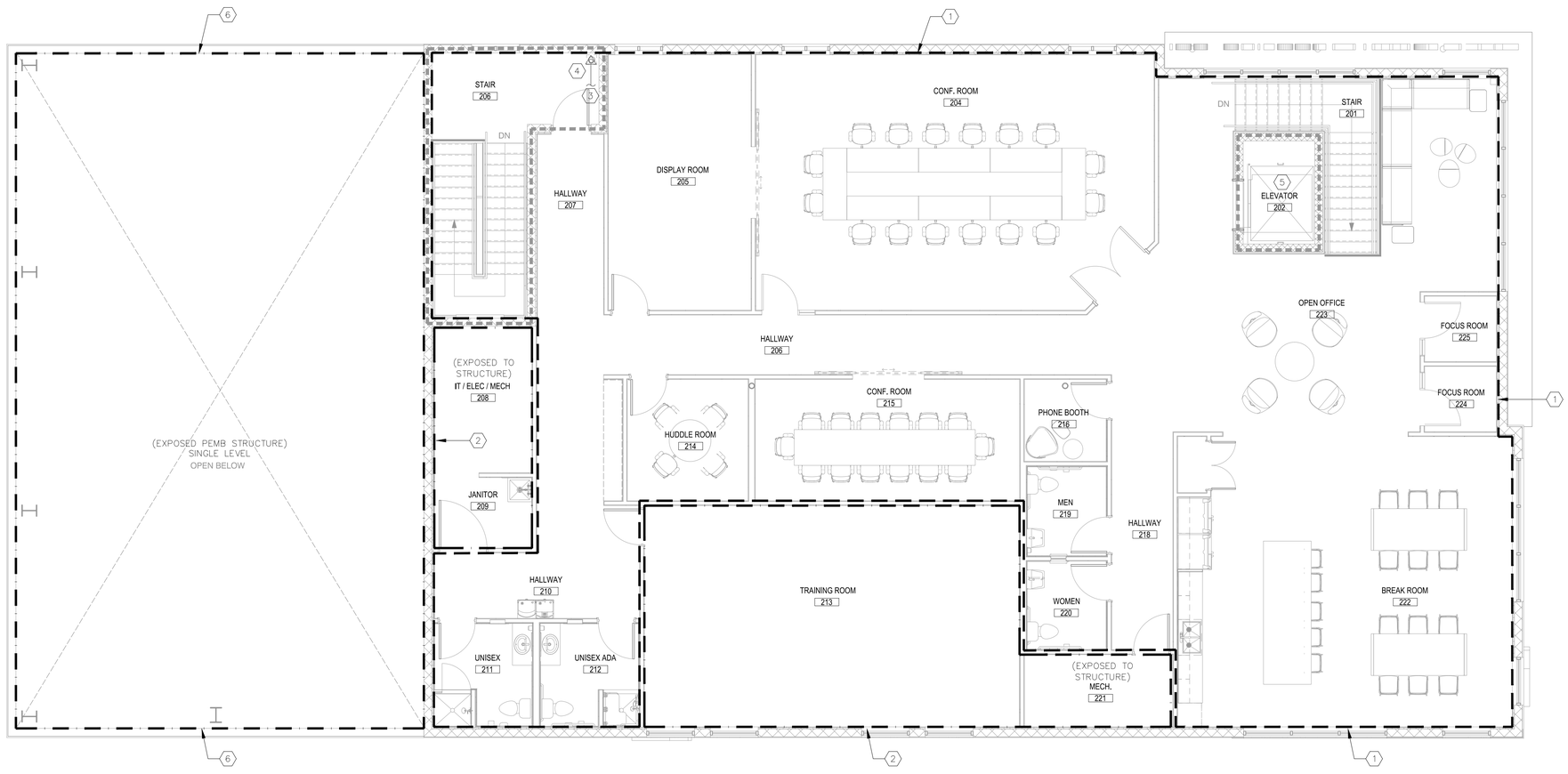
5. PROVIDE SPRINKLER AT TOP OF ELEVATOR PIT.
6. PROVIDE A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM WITH A ORDINARY HAZARD GROUP 1 COVERAGE OF 0.2 GPM/SF OVER 1500 SF PER NFPA 13.



FIRE PROTECTION PLAN - SECOND FLOOR

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

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No.	Date	Revision

PROJECT NO:
24006 (C&A 2503)

DATE:	05/30/2025
DESIGNED BY:	KJD
DRAWN BY:	KJD
CHECKED BY:	KJD

DRAWING TITLE:
FIRE PROTECTION PLAN - SECOND FLOOR

SHEET NO:
FP121

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