

1520 Prudential Drive, Jacksonville, FL 32207 904.353.5900 [o] 904.353.5968 [f] Email info@g4designinc.com, AA26001912

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ID101 FIRST FLOOR DEMOLITION PLAN

P201 PLUMBING DETAILS & RISER DIAGRAM

P301 PLUMBING SPECIFICATIONS

ID102 SECOND FLOOR DEMOLITION

Project Team

Owner:

The Vestcor Companies, Inc. 3030 Hartley Rd, #310 | Jacksonville, FL 32257

Architect / Interior Designer:

Group 4 Design, Inc 1520 Prudential Dr | Jacksonville FL 32207 904.353.5900 [o]

Mechanical & Plumbing Engineer:

Gregory Engineering 4567 Deep River PI | Jacksonville, FL 23334 904.714.5188

Electrical Engineer:

Shaffer Engineering Group 12058 San Jose Blvd | Jacksonville, FL 32223 904.239.3621

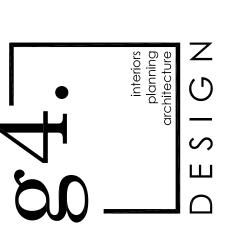
VESTCOR OFFICE RENOVATION

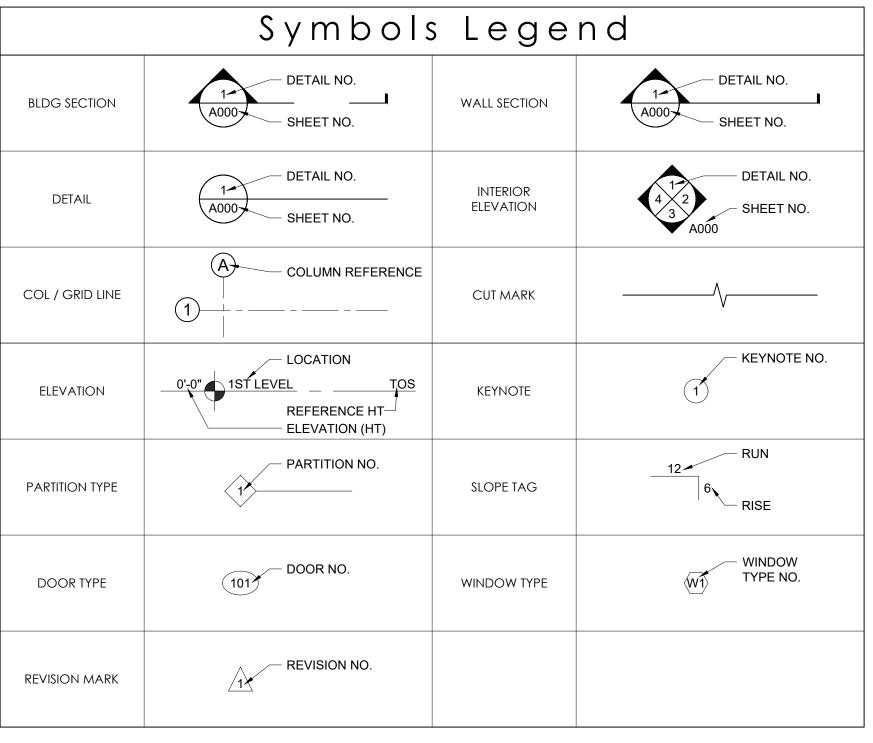
1649 ATLANTIC BOULEVARD JACKSONVILLE, FL 32207

Set Type: Permit Set Date: April 22, 2022

Project Number: 22.0017.00

ID111 FIRST FLOOR PLAN ID112 SECOND FLOOR PLAN ID201 FIRST FLOOR INTERIOR FINISH PLAN ID202 SECOND FLOOR INTERIOR FINISH PLAN ID300 INTERIOR ELEVATIONS ID301 INTERIOR ELEVATIONS ID302 INTERIOR ELEVATIONS • ID400 INTERIOR DETAILS ID700 DOOR FRAME AND SCHEDULE ID900 LIGHTING SPECS & CEILING DETAILS ID901 FIRST FLOOR REFLECTED CEILING PLAN ID902 SECOND FLOOR REFLECTED CEILING PLAN MECHANICAL M101 MECHANICAL PLAN FIRST FLOOR M102 MECHANICAL PLAN SECOND FLOOR M102 MECHANICAL PLAN ROOF M201 | MECHANICAL DETAILS M202 MECHANICAL SCHEDULES M301 MECHANICAL SPECIFICATIONS P101 PLUMBING DEMO PLAN FIRST FLOOR P102 PLUMBING DEMO PLAN SECOND FLOOR P103 PLUMBING PLAN FIRST FLOOR P104 PLUMBING PLAN SECOND FLOOR





Interior Abbreviations									
ABV ACC	ABOVE ACCESS / ACCESSIBLE	DIA DIM	DIAMETER DIMENSION	JT	JOINT	OPQ	OPAQUE	SYM	SYMMETRICAL
ACFL	ACCESS / ACCESSIBLE ACCESS FLOOR	DISP	DISPENSER / (GARB) DISPOSAL	KIT	KITCHEN	P	PANTRY	ТВ	TOWEL BAR
ACT	ACOUSTICAL (CLG) TILE	DRY	ELEC/GAS CLOTHES DRYER	KPL	KICKPLATE	PLAM	PLASTIC LAMINATE	TEL	TELEPHONE
ACWC	ACOUSTIC WALLCOVERING	DTL	DETAIL	IXI L	MON LATE	PLYWD	PLYWOOD	TEMP	TEMPORARY / TEMPERATURE
ADJ	ADJACENT/ ADJUSTABLE	DW	DISHWASHER	L	LENGTH	PNL	PANEL	THK	THICK(NESS)
AFF	ABOVE FINISHED FLOOR	DWR	DRAWER	LAM	LAMINATE	PNT	PAINT	THRES	THRESHOLD
AHU	AIR HANDLING UNIT	DWG	DRAWING	LAV	LAVATORY	PR	PAIR	TMPD	TEMPERED
ALT	ALTERNATE	5,,,,	510 (0111)	LDRY	LAUNDRY	PT	PORCELAIN TILE	TPD	TOILET PAPER DISPENSER
ALUM	ALUMINUM	EA	EACH	LH	LEFT HAND	PTD	PAINT(ED)	TV	TELEVISION
ANOD	ANODIZED	EDF	ELECTRIC DRINKING FOUNTAIN	LT	LIGHT	PTN	PARTITION	TYP	TYPICAL
APPROX	APPROXIMATE	EQ	EQUAL	LVT	LUXURY VINYL TILE			T&G	TONGUE AND GROOVE
ARCH	ARCHITECT(URAL)	EQUIP	EQUIPMENT	LT WT	LIGHT WEIGHT	QTY	QUANTITY		
AWT	ACCENT WALL TILE	EWC	ELECTRIC WATER COOLER	LWF	LAMINATE WOOD FLOORING			UNFIN	UNFINISH(ED)
		EXIST	EXISTING			RAD	RADIUS	UNO	UNLESS NOTED OTHERWISE
BLDG	BUILDING	EXP	EXPOSED	M	METER	RB	RUBBER BASE	UR	URINAL
BR	BRICK			MATL	MATERIAL	RE:	REFERENCE		
		FD	FLOOR DRAIN	MAX	MAXIMUM	REF	REFRIGERATOR	VB	VINYL BASE
CAB	CABINET	FE	FIRE EXTINGUISHER	MECH	MECHANICAL	REINF	REINFORCED	VCT	VINYL COMPOSITION TILE
CER	CERAMIC	FEC	FIRE EXTINGUISHER CABINET	MED	MEDIUM	REQD	REQUIRED	VER	VERIFY
CFCI	CONTRACTOR FURNISHED	FF	FINISH FLOOR	MFR	MANUFACTURE(ER)(ING)	RESIL	RESILIENT	VERT	VERTICAL
	CONTRACTOR INSTALLED	FIN	FINISH	MICRO	MICROWAVE	REV	REVISION	VEST	VESTIBULE
CL	CENTERLINE	FLR	FLOOR	MIN	MINIMUM	RF	RUBBER FLOORING	VF	VINYL FLOORING
CLG	CEILING	FOF	FACE OF FINISH	MIR	MIRROR	RH	RIGHT HAND	VNR	VENEER
CLG HT	CEILING HEIGHT	FP	FIREPLACE	MISC	MISCELLANEOUS	RM	ROOM	VWC	VINYL WALL COVERING
CLO	CLOSET			MM	MILLIMETER	RO	ROUGH OPENING		
CM	CENTIMETER/	GA	GAUGE	MTD	MOUNTED			W/	WITH
	CUSTOM MILLWORK	GL	GLASS/GLAZING	MTL	METAL	SCHED	SCHEDULE	WB	WOOD BASE
CONC	CONCRETE	GR	GROUT		NOT IN CONTRACT	SECT	SECTION	WC	WATER CLOSET/
CONT	CONTINUOUS/CONTINUE	GWB	GYPSUM WALL BOARD	NIC	NOT IN CONTRACT	SF	SQUARE FEET		WALL COVERING
CORR	CORRIDOR	GYP	GYPSUM	NOM	NOMINAL	SHT	SHEET	WD	WOOD
CPB	CARPET BASE		UEARER	NTS	NOT TO SCALE	SHWR	SHOWER	W/D	WASHER / DRYER COMBO
CPT	CARPET	HDR	HEADER	0.0	OVEDALL	SIM	SIMILAR	WDW	WINDOW
CT	CERAMIC TILE	HDW	HARDWARE	OA OC	OVERALL ON CENTER	SPEC	SPECIFICATION	WGT	WEIGHT
CTR	CENTER	HM	HOLLOW METAL	OFCI	OWNER FURNISHED	SPKR	SPEAKER	WH	WATER HEATER
CU FT	CUBIC FOOT	HORIZ	HORIZONTAL	OFCI		SS	SOLID SURFACE	W/O	WITHOUT
CU YD	CUBIC YARD	HT	HEIGHT	OFOI	CONTRACTOR INSTALLED OWNER FURNISHED OWNER	SST	STAINLESS STEEL	WS	WOOD STAIN WAINSCOT
CW	CASEWORK	IMD	ICE MAKER BOX	OFOI	INSTALLED	ST	STANDARD	WSCT	
CWT	CERAMIC WALL TILE	IMB		ОН	OVERHEAD (OVERHANG)	STD	STANDARD STEEL	WSH	WASHING MACHINE
DBL	DOUBLE	INCL INT	INCLUDE(D) INTERIOR	OPH	OPPOSITE HAND	STL STOR	STEEL STORAGE	WT	WALL TILE
DEPT	DEPARTMENT	IINI	INTERIOR	OPNG	OPENING	STRUCT	STRUCTURAL	+/-	PLUS OR MINUS
	DRINKING FOUNTAIN	J-BOX	JUNCTION BOX	OPP	OPPOSITE	SUSP	SUSPENDED	-/-	I LOS ON MINOS
DF	DUINVING LOON LAIN	1-POV	JUNCTION DOX	OI F	OI I OOIIL	3037	SUSPENDED		

GENERAL PROJECT NOTES AND CONDITIONS

- THIS DOCUMENT IS PROVIDED FOR BASIC CONSTRUCTION PURPOSES ONLY. THE ARCHITECT DOES NOT WARRANT ANY MATERIAL, EQUIPMENT, HARDWARE, ETC. WHETHER IMPLIED OR EXPLICITLY CALLED OUT ON DRAWINGS.
- ALL GENERAL NOTES APPLY TO THE SCOPE OF THIS TOTAL PROJECT, REGARDLESS OF WHETHER OR NOT THEY ARE KEYED ON EVERY SHEET TO A SPECIFIC DETAIL.
- THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION MEETS OR EXCEEDS APPLICABLE CODES AND STANDARD PRACTICES, INCLUDING ALL FEDERAL, STATE AND LOCAL BUILDING AND ACCESSIBILITY REQUIREMENTS AND REGULATIONS.
- COMPLY WITH ALL APPLICABLE ACCESSIBILITY CODES WHEN INSTALLING AND FRAMING OPENINGS FOR DOORS.
- ALL PERMITS (OCCUPANCY, ELECTRICAL, PLUMBING AND ALL OTHERS) REQUIRED BY STATE AND LOCAL CODES, EXCEPT THOSE ACQUIRED BY SUBCONTRACTORS, ARE TO BE SECURED BY THE GENERAL CONTRACTOR WITH COPIES TO OWNER WITHOUT EXTRA CHARGE. ALL PERMITS ACQUIRED BY SUBCONTRACTORS SHALL BE SUBMITTED TO THE GENERAL CONTRACTOR FOR RECORD.
- ALL EXTERIOR EXPOSED WORK SHALL BE INSTALLED IN SUCH MANNER AS TO ASSURE WEATHER TIGHT CONDITION. CONTRACTOR SHALL PROVIDE ALL SEALANT AND WEATHER BARRIER MATERIALS REQUIRED FOR WEATHER TIGHT CONDITIONS. ALL OCCUPIED SPACES SHALL RECEIVE AN INSULATION BARRIER THAT IS CONTINUOUS AT ALL EXTERIOR WALL, CEILING AND FLOOR SURFACES.
- EACH TRADE SHALL VERIFY ALL REQUIREMENTS PERTAINING TO WORK PERFORMED IN THE PROJECT AND ANY REQUIRED PERMITS. ALL SUBCONTRACTORS SHALL DIRECT QUESTIONS, CHANGES OR REQUESTS THROUGH THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL SUBMIT ALL REQUESTS. CHANGES OR QUESTIONS TO THE ARCHITECT, PREFERABLY IN WRITING, EITHER ELECTRONICALLY OR VIA FACSIMILE.
- ANY ARCHITECTURAL WORK REQUIRED TO PROVIDE THE SCOPE OF WORK GRAPHICALLY INDICATED BY THESE DRAWINGS IS A PART OF THE SCOPE OF THE CONSTRUCTION CONTRACT. IN THE EVENT ANY WORK IS INDICATED GRAPHICALLY AND NOT NOTED, THE WORK WILL BE EXPECTED TO BE PERFORMED AT NO ADDITIONAL CHARGE.
- THE GENERAL CONTRACTOR SHALL CONFIRM THAT THE LAYOUT OF THE SPACE CAN BE ACCOMPLISHED AS DESIGNED. THE ARCHITECT MUST BE NOTIFIED OF ANY PROBLEMS WITH PROPOSED WALL LOCATIONS AFTER THE CHALK LINES ARE IN PLACE AND BEFORE THE WOOD SILL OR METAL TRACKS ARE FASTENED IN ORDER TO MAKE APPROPRIATE DECISIONS OR ANY NECESSARY ADJUSTMENTS.
- 10. IF UNANTICIPATED MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL ELEMENTS OR ANY OTHER CONDITIONS ARE ENCOUNTERED WHICH MIGHT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN OF THE NEW CONSTRUCTION, CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- 11. REVIEW ALL EXIT SIGNS AND FIRE EXTINGUISHER LOCATIONS WITH LOCAL CODE OFFICIALS PRIOR TO END OF PRIMARY CONSTRUCTION PHASE. COORDINATE ANY VARIATIONS FROM CONSTRUCTION DOCUMENTS WITH ARCHITECT.
- 12. FIRE-RATED PARTITIONS SHALL BE IDENTIFIED AS SUCH IF REQUIRED IN LARGE RED STENCIL ABOVE FINISHED CEILING.
- 13. PROVIDE WOOD BLOCKING (FIRE RETARDANT WHERE REQUIRED BY CODE) INSIDE PARTITIONS FOR SECURING WALL-HUNG CABINETS. SHELVING, TRIM, MILLWORK AND OTHER ELEMENTS ATTACHED TO PARTITIONS AS REQUIRED TO ENSURE FLUSH, STRAIGHT, WELL-SECURED CONDITIONS.
- 14. COORDINATE ALL PHONE AND COMPUTER DATA INSTALLATION AND SCHEDULE REQUIREMENTS WITH OWNER.
- 15. THE CONTRACTOR SHALL PROMPTLY REMEDY ANY DAMAGE AND/OR LOSS TO PROPERTY (ALL MATERIALS AND EQUIPMENT INCORPORATED IN THE WORK DESCRIBED HEREIN) CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, A SUBCONTRACTOR, OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THE
- PRIOR TO OWNER OCCUPANCY, CONTRACTOR SHALL REMOVE ALL DUST, DEBRIS, OILS, STAINS, GLUES AND FINGERPRINTS FROM EXPOSED SURFACES INCLUDING GLAZING & REFLECTORS OF LIGHT FIXTURES. WINDOWS SHALL BE WASHED. EVERYTHING MUST BE CLEANED AND AIR FILTERS MUST BE CHANGED TO ACHIEVE SUBSTANTIAL COMPLETION, ANY PUNCH LIST WORK AND SURROUNDING SURFACES MUST ALSO BE CLEANED.
- 7. CONTRACTOR TO VERIFY ALL CLEARANCES AS WELL AS ELECTRICAL AND PLUMBING REQUIREMENTS OF ALL OWNER FURNISHED, OWNER INSTALLED EQUIPMENT AND APPLIANCES.
- 18. THE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS; SUCH DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER OR THE ARCHITECT.
- 19. DO NOT SCALE DRAWING. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD.

FIRE RATING FIRE RESISTIVE CONSTRUCTION SHALL BE MAINTAINED AT ALL PENETRATIONS FOR MECHANICAL, ELECTRICAL AND PLUMBING

- SYSTEMS AS REQUIRED BY THE JURISDICTIONAL AUTHORITIES OVER
 - ALL PARTITIONS ENCLOSING VERTICAL OPENINGS SUCH AS STAIRWAYS WHICH ARE REQUIRED TO HAVE A FIRE RESISTANCE RATING SHALL EXTEND FROM FLOOR TO FLOOR OR FLOOR TO ROOF. THESE WALLS SHALL BE CONTINUOUS THROUGH ALL CONCEALED SPACES SUCH AS THE SPACE ABOVE THE SUSPENDED CEILING.
 - 2. WHERE REQUIRED THE SUPPORTING STRUCTURE SHALL HAVE A FIRE RESISTANCE RATING EQUAL TO OR GREATER THAT THE FIRE RESISTANCE RATING REQUIRED FOR THE VERTICAL ENCLOSURE. WHERE THE OPENINGS ARE OFFSET AT INTERMEDIATE FLOORS, THE OFFSET AND FLOOR CONSTRUCTION SHALL BE OF CONSTRUCTION HAVING A FIRE RESISTANCE OF NOT LESS THAN THAT REQUIRED FOR THE ENCLOSING PARTITIONS. SMOKESTOP PARTITIONS AND FIRE RATED WALLS REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN A MANNER ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUCH IDENTIFICATION SHALL BE ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES.

SUGGESTED WORDING: "FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS".

THE INTEGRITY OF ALL DRAFTSTOPS SHALL BE MAINTAINED.

- 2. DRAFTSTOPPING MATERIAL SHALL BE NOT LESS THAN 1/2 INCH GYPSUM BOARD, 15/32 INCH WOOD STRUCTURAL PANEL, 1/2 INCH PARTICLEBOARD OR OTHER MATERIAL APPROVED BY THE BUILDING OFFICIAL OR FIRE DEPARTMENT.
- CONTINUOUS EXTERIOR CORNICES OF WOOD, OR OF WOOD FRAMES, SHALL BE DRAFTSTOPPED AT INTERVALS NOT EXCEEDING
- 4. OVERHANGS TO BE DRAFTSTOPPED AT 20'-0" O.C. INTERVALS.
- VENTILATION SHALL BE PROVIDED TO FURNISH CROSS VENTILATION OF EACH SEPARATE ATTIC SPACE WITH WEATHER PROTECTED
- 6. VERTICAL FIBERGLASS INSULATION DRAFTSTOPPING AT TENANT SEPARATION WALLS SHALL BE PROVIDED AT 10'O.C. NO HARD TIES BETWEEN DBL STUD WALLS IS ALLOWED AND MAY COMPROMISE SOUND RATINGS BELOW THE ACCEPTABLE CODE REQUIREMENTS.

REFLECTED CEILING NOTES

- THE INFORMATION ON THE REFLECTED CEILING PLAN IS PROVIDED ONLY AS A LOCATIONAL GUIDE TO THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING. PRIOR TO CONSTRUCTION, OF ANY CONFLICTS BETWEEN PROPOSED REFLECTED CEILING PLAN AND EXISTING CONDITIONS.

- THE GENERAL CONTRACTOR SHALL VERIFY EXISTING GRADES, TREE LOCATIONS, AND PROPOSED BUILDING LOCATIONS AND SHALL ADVISE THE OWNER AND ARCHITECT OF ANY RECOMMENDED MODIFICATIONS PRIOR TO THE START OF ANY
- 2. THE ARCHITECTURAL REFERENCE SITE PLAN GRAPHICALLY INDICATES THE APPROXIMATE LOCATIONS OF THE IMPROVEMENTS. REFER TO CIVIL ENGINEERS PLANS FOR ALL HORIZONTAL DIMENSIONAL CONTROL.
- VERIFY ALL SITE DIMENSIONS ON CIVIL DRAWINGS, CONDITIONS, EXISTING CONSTRUCTION GRADES AND UTILITIES ON PROJECT AND CONTRACT DOCUMENTS AT PROJECT SITE PRIOR TO BEGINNING CONSTRUCTION, DISCREPANCIES TO BE REPORTED TO OWNER AND ARCHITECT FOR CLARIFICATION.
- WHEN EXCAVATING FOR BUILDINGS OR EXCAVATING ACCESSORY THERETO, SUCH EXCAVATIONS SHALL BE MADE SAFE TO PREVENT ANY DANGER TO LIFE AND PROPERTY.
- EXCAVATIONS FOR ANY PURPOSE SHALL NOT EXTEND WITHIN 1 FT. OF THE ANGLE OF REPOSE OR NATURAL SLOPE OF THE SOIL UNDER ANY FOOTING OR FOUNDATION, UNLESS SUCH FOOTING OR FOUNDATION IS FIRST PROPERLY UNDERPINNED OR PROTECTED AGAINST SETTLEMENT.
- FOUNDATIONS SHALL BE BUILT ON UNDISTURBED SOIL OR PROPERLY COMPACTED FILL MATERIAL.
- THE BOTTOM OF FOUNDATIONS SHALL EXTEND BELOW THE DEPTH OF FROST PENETRATION, BUT NO LESS THAN 12 INCHES BELOW FINISH GRADE.
- FOUNDATION WALLS OR BEAMS SHALL EXTEND ABOVE THE FINISHED GRADE A MINIMUM OF 4 INCHES WHERE MASONRY VENEER IS USED AND A MINIMUM OF 6 INCHES ELSEWHERE.
- 9. THE GENERAL CONTRACTOR SHALL COORDINATE FINAL GRADING AND PAVING SLOPED AS REQUIRED FOR POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS.
- 10. THE GENERAL CONTRACTOR SHALL LOCATE ALL UTILITY SERVICES (WATER, SEWER, GAS, ELECTRIC, TELEPHONE) AND COORDINATE THE EXTENSIONS TO THE BUILDINGS. ALL CONNECTIONS, METERS, CLEAN OUTS, ETC., SHALL BE LOCATED IN NON-VISUALLY OFFENSIVE AREAS (COORDINATE LOCATIONS WITH ARCHITECT AND OWNER).

FINISH NOTES

- PAINT MECHANICAL ITEMS LOCATED IN THE CEILING OR WALL TO MATCH ADJACENT SURFACE IN WHICH THEY OCCUR. CONFIRM COLOR WITH ARCHITECT.
- PROVIDE VINYL REDUCER STRIP AT ALL FLOOR MATERIAL TRANSITIONS.EXCEPT WHERE NOTED OTHERWISE.
- PROVIDE CONTINUOUS BEAD OF SEALANT AT ALL WOOD TRIM AS NECESSARY TO PREVENT ANY GAPS BETWEEN TRIM AND GYPSUM BOARD. PAINT SEALANT TO MATCH TRIM.

MECHANICAL, ELECTRICAL AND PLUMBING NOTES THE CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL SYSTEMS ARE INSTALLED IN COMPLIANCE WITH ALL LOCAL CODES AND

REGULATIONS. THE CONTRACTOR SHALL INVOLVE A LICENSED ENGINEER AS NECESSARY TO ASSURE COMPLIANCE.

- 2. THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANIES AND PROVIDE ALL TEMPORARY AND PERMANENT
- 3. THE CONTRACTOR SHALL VERIFY THAT THE H.V.A.C. SYSTEM IS CLEAN, SERVICED, AND IN GOOD WORKING CONDITION. ALL UTILITIES ARE TO BE TURNED ON. ALL NEW THERMOSTATS, ELECTRICAL OUTLETS AND SWITCHES SHALL BE MOUNTED PER ANSI 117.1 REQUIREMENTS.
- GROUPS OF RECEPTACLES SHALL BE MOUNTED WITH A 1-1/2" MINIMUM DISTANCE BETWEEN THEM.
- UNLESS OTHERWISE NOTED, ELECTRICAL OUTLET BOXES LOCATED ON OPPOSITE SIDES OF WALLS MUST BE IN SEPARATE STUD SPACES TO MINIMIZE SOUND TRANSMISSION. COORDINATE ANY AREAS IN QUESTION WITH THE ARCHITECT.
- CONTRACTOR TO VERIFY AND PROVIDE ALL ELECTRICAL AND PLUMBING REQUIREMENTS FOR ALL NOTED G.F.C.I. OR A.F.C.I. EQUIPMENT AND APPLIANCES. INCLUDING BUT NOT LIMITED TO COFFEE MAKERS, MONITORS, COPIERS, FAX MACHINES, PRINTERS ETC.

GENERAL

1. APPLY SEALANTS PER MANUFACTURER'S WRITTEN INSTRUCTION.

- 2. PRIOR TO INSTALLATION, VERIFY WITH MANUFACTURER COMPATIBILITY OF ALL MATERIALS INCLUDING SELF-ADHERING FLASHING, PRIMER, SEALANT AND SUBSTRATE. (SINGLE SOURCE MANUFACTURER FOR PRODUCTS IS RECOMMENDED FOR COMPATIBILITY).
- SEALANT SHALL COMPLY WITH ASTM C 920 STANDARD GUIDE FOR USE OF ELASTOMERIC JOINT SEALANTS.
- DEPTH OF SEALANT EQUAL APPROXIMATELY HALF WIDTH OF JOINT. MINIMUM SEALANT DEPTH EQUAL TO 1/4".
- 5. SEALANT SHOULD NOT ADHERE TO BACKER ROD. ENSURE TWO-SIDED ADHESION IN ALL CASES.
- 6. PRIME ALL SURFACES AS RECOMMENDED PER MANUFACTURER'S WRITTEN INSTRUCTION.
- BACKER ROD SHALL BE CONTINUOUS CLOSED CELL POLYETHYLENE.

SILICONE SEALANTS

- . APPLY SILICONE SEALANTS AT LOCATIONS WHERE PAINT FINISHES ARE NOT REQUIRED SUCH AS BRICK AREAS, EXTERIOR LIGHT FIXTURES, BRICK / STUCCO JUNCTION, BUILDING SIGNAGE, SURFACE MOUNTED ACCESSORIES ON BRICK.
- APPLICATION: AFTER JOINT IS CLEAN AND DRY, AND THE BACKING IS PROPERLY PLACED, SEALING CAN BEGIN. DO NOT APPLY TO WET SURFACES.
- A. FILL OPENING FROM THE BOTTOM UP OR OUT; ENTRAPPED AIR IS NOT A SEALANT. USE SOME FORCE TO HELP THE SEALANT WET THE SURFACE. (SEALED JOINT SHOULD NOT BULGE OUT FROM EXCESS MATERIAL, BUT SLIGHTLY CONCAVE.
- JOINT FILLER MATERIALS: BACKER ROD SHOULD BE 25% TO 50% GREATER THAN THE WIDTH OF THE JOINT, ALWAYS USE FLEXIBLE POLYURETHANE FOAM ROD.
- C. TOOLING: THE SURFACE OF A SEALANT JOINT MAY BE TOOLED SMOOTH IN ORDER TO OBTAIN A BETTER APPEARANCE. THIS TOOLING ALSO HAS A FAVORABLE EFFECT OBTAINING SEATING OF THE SEALANT AGAINST THE WALLS OF THE CAVITY. TO OBTAIN A SMOOTH SURFACE THE FINISHING TOOL SHOULD BE WET WITH SOLVENT SUCH AS XYLENE.
- REPAIRING SEALANT: REMOVE DAMAGED SEALANT AND CLEAN SURFACE AND APPLY PRIMER TO DAMAGED AREA, LET DRY AND APPLY FRESH SEALANT

ELASTOMERIC POLYURETHANE SEALANT

- A. APPLY ELASTOMERIC SEALANT AT LOCATIONS WHERE PAINT FINISHES ARE REQUIRED.
- B. THE DEPTH OF THE SEALANT SHOULD BE 1/2 THE WIDTH OF THE JOINT. THE MAXIMUM DEPTH IS 1/2" AND MINIMUM IS 1/4". IN DEEP JOINTS, THE SEALANT DEPTH MUST BE CONTROLLED BY CLOSED CELL BACKER-ROD.
- C. SURFACE PREPARATION: SURFACES MUST BE STRUCTURALLY SOUND, FULLY CURED, DRY, CLEAN, FREE OF DIRT, MOISTURE, LOOSE PARTICLES, OIL, GREASE, TAR, RUST, WATERPROOFING OR CURING AND PARTING COMPOUNDS AND MEMBRANE MATERIALS. WOOD: NEW AND WEATHERED WOOD MUST BE CLEAN AND SOUND.SCAPE AWAY LOOSE PAINT TO BARE WOOD. ANY COATING THAT CANNOT BE REMOVED MUST BE TESTED TO VERIFY ADHESION OF SEALANT OR TO DETERMINE AN OPERATE PRIMER. METAL: REMOVE SCALE RUST AND COATINGS FROM
- APPLYING SEALANT: DO NOT APPLY SEALANT WHEN MOISTURE - TRANSMISSION CONDITIONS EXISTS FROM THE SUBSTRATE AS THIS CAN CAUSE BUBBLING WITHIN THE SEALANT. AVOID OVERLAPPING OF SEALANT TO ELIMINATE ENTRAPMENT OF AIR. IF BUBBLING OCCURS CUT OUT SEALANT PRIME AREA AND APPLY FRESH SEALANT.

QUALITY ASSURANCE PROGRAM FOR PENETRATIONS AND JOINTS IN COMPLIANCE WITH FLORIDA FIRE PREVENTION CODE, NFPA 1

CHAPTER 12.3.2, THE OWNER OR THE GENERAL CONTRACTOR SHALL EMPLOY A SPECIAL INSPECTOR, APPROVED BY THE AHJ, TO OBSERVE CONSTRUCTION OF THE FIRE-RESISTIVE JOINT SYSTEMS AND FIRE STOP SYSTEMS COMPONENTS. ALL INSPECTIONS SHALL BE PERFORMED IN COMPLIANCE WITH NFPA1 12.3.2 AND SHALL BE CONDUCTED IN COMPLIANCE WITH AND REPORTED ON FORMS COMPLIANT WITH ASTM STANDARDS E2174 & E2393. THE SPECIAL INSPECTOR SHALL BE INDEPENDENT AS REQUIRED BY THE REFERENCED STANDARDS.

interiors planning architecture

1520 Prudential Drive | Jacksonville, FL 32207 904.353.5900 [o] 904.353.5968 [f] Email info@g4designinc.com | AA26001912

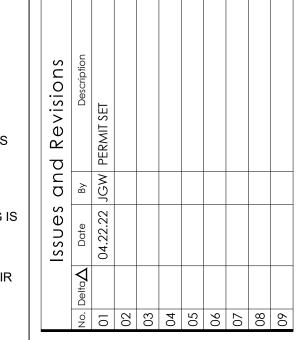
PLANS, DESIGN CONCEPTS, WRITTEN MATERIALS & DRAWINGS ARE NOT TO BE REPRODUCED, ALTERED, COPIED IN ANY FORM OR MANNER, NOR ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF GROUP 4

DO NOT SCALE THE DRAWINGS. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT. SCALE NOTED IS FOR FULL "ANSI-D" SIZE PRINTS.

CONTRACTOR SHALL CHECK & VERIFY ALL JOB SITE

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Checked By:

Project Name:

1649 ATLANTIC

OFFICE RENOVATION

JACKSONVILLE, FL

GENERAL PROJECT NOTES

AND CONDITIONS

AREA, BUILDING								
	EXISTING	NEW	TOTAL					
1ST FLOOR	3,305 SF	0 SF	3,305 SF					
2ND FLOOR	3,248 SF	0 SF	3,248 SF					

NOTE: AREA, BUILDING AS DEFINED BY FBC 7TH EDITION (2020). THE AREA INCLUDED WITHIN SURROUNDING EXTERIOR WALLS (OR EXTERIOR WALLS AND FIRE WALLS) EXCLUSIVE OF VENT SHAFTS AND COURTS. AREAS OF THE BUILDING NOT PROVIDED WITH SURROUNDING WALLS SHALL BE INCLUDED IN THE BUILDING AREA IF SUCH AREAS ARE INCLUDED WITHIN THE HORIZONTAL PROJECTION OF THE ROOF OR FLOOR ABOVE.

PROJECT	SUMMAR	Y
	JURISDICTION	DUVA

PROJECT	1649 ATLANTIC	JURISDICTION	DUVAL COUNTY, FLORIDA
PROJECT DESCRIPTION	EXISTING (2) TWO STORY UNSPRINKLERED OFFICE BUILDING RENOVATION TOTALING 6,553 SF	CODE COMPLIANCE	FLORIDA BUILDING CODE SEVENTH EDITION (2020) [FBC] ACCESSIBILITY [FBC-A] BUILDING [FBC-B] ENERGY CONSERVATION [FBC-EC] EXISTING BUILDING [FBC-EB] MECHANICAL [FBC-M] PLUMBING [FBC-P] FLORIDA FIRE PREVENTION CODE SEVENTH EDITION [FFPC] NATIONAL ELECTRIC CODE 2017 EDITION (NFPA 70-14) [NEC]



DESIGN

1520 Prudential Drive | Jacksonville, FL 32207 904.353.5900 [o] 904.353.5968 [f] Email info@g4designinc.com | AA26001912 PLANS, DESIGN CONCEPTS, WRITTEN MATERIALS &

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DO NOT SCALE THE DRAWINGS. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT. SCALE NOTED IS FOR FULL "ANSI-D" SIZE PRINTS.

CONTRACTOR SHALL CHECK & VERIFY ALL JOB SITE CONDITIONS.

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Issues and Revisions	Description	04.22.22 JGW PERMIT SET									
Q	Ву	JGW									
Issues	Date	04.22.22									
	No. Delta Δ										
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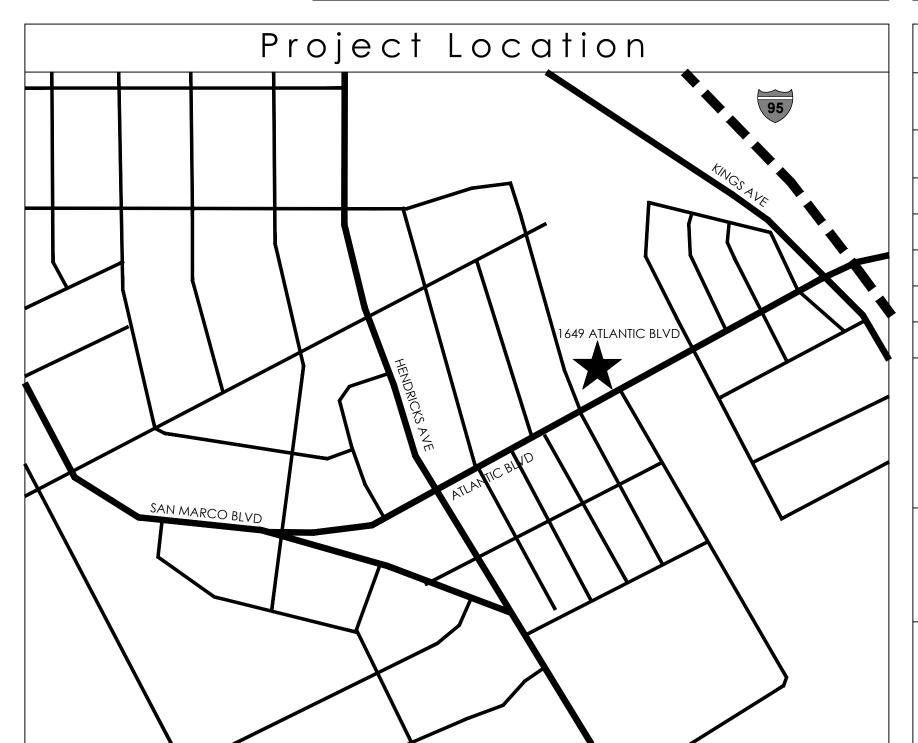
Project Number: 22.0017.00						
Orawn By:	JM					
Checked By:						

1649 ATLANTIC OFFICE RENOVATION

JACKSONVILLE, FL

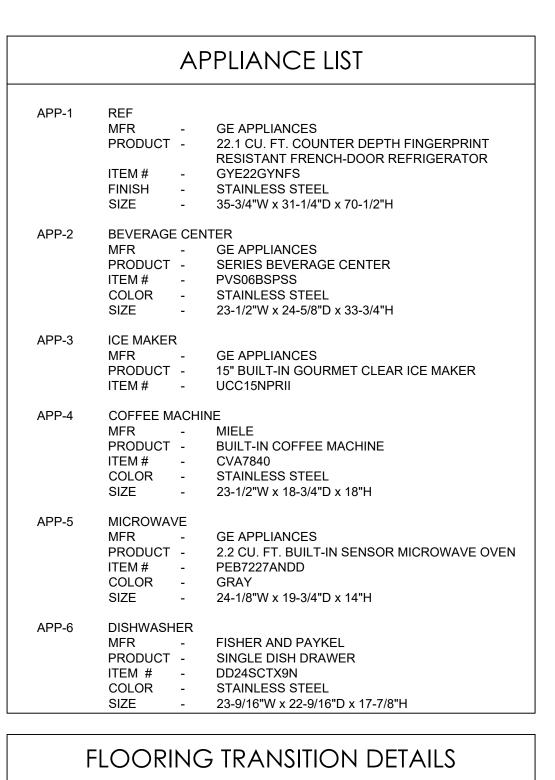
Drawing Name: PROJECT AND

CODE SUMMARY



CODE REVIEW SUMMARY

FLORIDA BUILDING C	ODE, BU	JILDING [FE	BC-B]	DDEV	IRE	
	,		-		ENTION CO	DE [FFPC]
	FBC CODE REFERENCE	CODE REQD	BUILDING	FFPC CODE REFERENCE	CODE REQD	BUILDING
OCCUPANCY CLASSIFICATION	CHAPTER 3	-	В	CHAPTER 6	-	EXIST / NEW BUSINESS (CH 30
TYPE OF CONSTRUCTION	CHAPTER 6	TYPE IIB	TYPE IIB	§ 8.2.1 (NOTE A)	RE: FBC (NOTE A.B.)	IIB
ALLOWABLE BUILDING HEIGHT ABOVE GRADE PLANE	TABLE 504.3	55 FT (NON-SPRINKLERED)	EXISTING			
ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE	TABLE 504.4	3 STORIES (NON-SPRINKLERED)	2 STORIES			
ALLOWABLE AREA (PER FLOOR) AS DEFINED BY DEFINITION OF "AREA, BUILDING"	§ 506 TABLE 506.2	23,000 SF (NOTE 1)	3,305 SF (NOTE 1.1)			
FIRE-RESISTANCE RATING - BUILDING ELEMENTS STRUCTURAL FRAME	TABLE 601	0	0			
BEARING WALLS (EXTERIOR)		0	0			
BEARING WALLS (INTERIOR)		0	0			
NONBEARING WALLS & PARTITIONS (EXT)	TABLE 602	SEE BELOW	0			
NONBEARING WALLS & PARTITIONS (INT)		0	0			
FLOOR CONSTRUCTION & SECONDARY MEMBERS		0	0			
ROOF CONSTRUCTION & SECONDARY MEMBERS		0	0			
FIRE-RESISTANCE RATING - EXTERIOR WALLS FIRE SEPARATION DISTANCE = X (FEET)	TABLE 602					
X < 5 FT		1	N/A			
5 ≤ X < 10		1	N/A			
10 ≤ X < 30		0	N/A			
X ≥ 30		0	0			
MAX AREA OF EXTERIOR WALL OPENINGS	TABLE 705.8					
DISTANCE - (UP, NS) OPENINGS (FEET)		UNPROTECTED	UNPROTECTED			
0 TO LESS THAN 3		NOT PERMITTED	N/A			
3 TO LESS THAN 5		NOT PERMITTED	N/A			
5 TO LESS THAN 10		10%	N/A			
10 TO LESS THAN 15 15 TO LESS THAN 20		15% 25%	N/A			
20 TO LESS THAN 25		25% 45%	N/A N/A			
25 TO LESS THAN 30		70%	N/A			
30 OR GREATER		NO LIMIT	NO LIMIT			
FIRE PARTITIONS	§ 708			CHAPTER 8		
	§ 708.3	1 HR		§ 30.3.6.1.2	0.1.15	0.115
CORRIDORS	TABLE 1020.1	(NON-SPRINKLERED)	N/A	(NOTE B.A.) § 30.3.7.2	0 HR 0 HR	0 HR 0 HR
FLOOR AND ROOF ASSEMBLIES	§ 711			(NOTE B.B.)	OTIIX	OTIIC
HORIZONTAL SEPARATION	§ 420.3 & 711	0 HR	0 HR	§ 30.3.7.2 (NOTE B.B.)	0 HR	0 HR
FIRE PROTECTION	CHAPTER 9 (NOTES 4, 5 & 6)	N/A	N/A	§ 9.7 § 30.3.5.2	NON-SPRINKLERED NFPA 13R	NON-SPRINKLERE NFPA 13R
MEANS OF EGRESS	CHAPTER 10			CHAPTER 7		
OCCUPANT LOAD	TABLE 1004.1.2	RE: A030	FLR 1 - 23 PPL FLR 2 - 22 PPL 1 EGRESS PATHS (45 PPL)	TABLE 7.3.1.2	RE: A030	FLR 1 - 23 PPL FLR 2 - 22 PPL 1 EGRESS PATHS (45 PPI
	§ 1005.3.1 (STAIR)	0.3	23*.3 = 6.9" REQD 44" (MIN) PROVIDED	TADI E 7 2 2 4	0.3 (STAIR)	23*.3 = 6.9" REQI 44" (MIN) PROVIDE
REQUIRED EGRESS WIDTH	§ 1005.3.2 (OTHER)	0.2	N/A	TABLE 7.3.3.1	0.2 (OTHER)	N/A
MINIMUM NUMBER OF EXITS	§ 1006.2.1 TABLE 1006.2.1	2 (1 OCCUPANT LOAD < 50)	RE: A030	§ 7.4.1.1	2 (1 CODE PERMITTING)	RE: A030
COMMON PATH OF TRAVEL	TABLE 1006.2.1	A: 75 FT B: 100 FT	RE: A030	A: § 12.2.5.1.2 B: § 38.2.5.3.1	75 FT 100 FT	RE: A030
MIN CLEAR OPENINGS OF DOOR	§ 1010.1.1	32"	33"	§ 7.2.1.2.3.2	32"	33"
	•	44"	44"	§ 7.2.2.2.1.2	44"	44"
MINIMUM STAIR WIDTH	§ 1011.2		44	8 7.2.2.1.2 A: § 12.2.6.2		44
EXIT ACCESS TRAVEL DISTANCE	TABLE 1017.2	A: 200 FT B: 200 FT	RE: A030	B: § 38.2.6.3	200 FT 200 FT	RE: A030
MIN CORRIDOR / AISLE WIDTH	TABLE 1020.2	36"	48"	§ 7.3.4	36"	48"
		A: 20 FT		A: § 12.2.5.1.3	20 FT	
MAX DEAD END	§ 1020.4	B: 20 FT	RE: A030	B: § 38.2.5.2.1	20 FT	RE: A030



GENERAL NOTE: FLOAT FLOOR AS REQUIRED TO PROVIDE A SMOOTH TRANSITION LVT (4.5MM) AS SCHEDULED SCHLUTER TRANSITION-RENO-TK (BRUSHED NICKEL) TILE AS SCHEDULED LVT (4.5MM) TO TILE NTS - SEALED CONCRETE ROPPE #23 REDUCER STRIP; 4.5MM TO SUBFLOOR, COLOR: TO BE SELECTED FROM MFR STANDARD COLORS 4.5MM LVT AS SCHEDULED LVT TO CONCRETE NTS LVT (4.5MM)-TANDUS METALEDGE TRANSITION; COLOR: TBD

LVT (4.5MM) TO CPT

SEE SERIES ID200 INTERIOR REFERENCE PLANS AND FINISH PLANS FOR ALL FINISH EXTENTS AND CHANGES, AS WELL AS CASEWORK AND ARCHITECTURAL ELEMENT LOCATIONS. 2. SEE SERIES ID900 INTERIOR REFLECTED CEILING PLANS FOR ALL DECORATIVE CEILING INFORMATION. 3. REFER TO SHEET ID010 FOR FLOORING TRANSITION DETAILS AND SPECIFICATIONS. 4. REFER TO SHEET ID700 FOR DOOR INFORMATION. CONTRACTOR INSTRUCTIONS 5. CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING, PRIOR TO CONSTRUCTION, OF ANY CONFLICTS BETWEEN PROPOSED MATERIALS AND ANY RECOMMENDED MODIFICATIONS DUE TO AVAILABILITY, PRODUCT PREFERENCE OR JOB SITE CONDITIONS. 6. CONTRACTOR TO PROVIDE FINISH SAMPLE SUBMITTALS FOR ALL MATERIALS AS SPECIFIED IN FINISH LEGEND, PRIOR TO ORDER PLACEMENT. 7. CONTRACTOR TO ALLOW MINIMUM OF 12 WEEKS LEAD TIME FOR ALL SPECIALTY MATERIALS, INCLUDING BUT NOT LIMITED TO STONE/TILE, DECORATIVE WOOD PROFILES AND SPECIALTY MATERIALS. 8. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL CASEWORK. 9. ALL INTERIOR FINISHES SHALL MEET OR EXCEED CLASS "A" FLAME SPREAD TESTING REQUIREMENTS 10. ALL INTERIOR GYP BD WALLS AND GYP BD CEILINGS SHALL HAVE LEVEL 5 FINISH, UNO; LEVEL 4 FINISH ACCEPTABLE IN MECH AND STORAGE ROOMS ONLY 11. DOORS MAY NEED TO UNDERCUT TO ALLOW FOR TRANSITIONS BETWEEN MATERIALS AT INTERIOR THRESHOLDS 12. TYP INTERIOR DOOR FINISH TO BE P-2 SEMI-GLOSS FINISH, UNO; REFER TO ARCHITECTURAL DOOR SCHED FOR DOOR TYPES AND TYP EXT DOOR FINISH 13. TYP INT DOOR CASING TO BE WD-1, UNLESS NOTED OTHERWISE; PAINT P-2, SEMI-GLOSS FINISH, UNO 14. TYP WALL BASE TO BE PAINTED P-2, UNO 15. TYPICAL WINDOWS TO HAVE GYP BD SILLS AND JAMBS 16. STANDARD PAINT FINISHES SHALL BE AS FOLLOWS, UNO: WOOD TRIM SEMI-GLOSS FINISH, WATER-BASED GYP BD WALLS EGGSHELL FINISH, LATEX FLAT FINISH, LATEX CEILINGS SEMI-GLOSS FINISH WATER-BORNE

& WET AREA WALLS ACRYLIC EPOXY PAINT, EXCEPT AT

EXTERIOR WALLS WHICH SHALL BE SEMI-GLOSS LATEX FINISH

17. PROVIDE SQUARE SHOE MOULD AT AREAS WHERE WOOD BASE IS

18. LVT IN WET AREAS SHALL BE APPLIED WITH EPOXY ADHESIVE

INSTALLED WITH RESILIENT FLOORING

NTS

DOOR STYLE: SLAB, UNO

ADJACENT TO ANY PIECE OF MILLWORK

IMMEDIATELY IN THE EVENT OF A DISCREPANCY

CABINET EXTERIOR, UNO

SPACES, UNO

REFERENCES

PLYWOOD SUBTOPS UNO

CABINET EXTERIOR UNO

11. FILLER PIECES SHALL BE NO MORE THAN 3"W

FULLY-CONCEALED INTERIOR SURFACES, UNO

CASEWORK GENERAL NOTES CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL CASEWORK. 2. ALL CABINETRY TO BE EUROPEAN STYLE FRAMELESS CONSTRUCTION, CONCRETE SLAB FINISH 110° SOFT CLOSE HINGES WITH FULL-EXTENSION, SOFT CLOSE DRAWER GLIDES; STEEL PADDLE-STYLE SHELF PINS, UNO SC HARDWARE: HD-1, UNO; HD-2 AT COPY/PRINT AREAS CARPET ALL EXPOSED AND SEMI-EXPOSED SURFACES TO MATCH SPECIFIED CABINET EXTERIOR; WHITE MELAMINE CABINET LINER AT CPT-1 THE INTERIOR OF OPEN CABINETS SHALL BE FINISHED TO MATCH THE 5. CONTRACTOR SHALL VERIFY AND COORDINATE CLEAR DIMENSIONS REQUIRED FOR ALL EQUIPMENT / APPLIANCES LOCATED WITHIN OR MILLWORK / CASEWORK DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION; CONTACT DESIGNER CONTRACTOR TO PROVIDE CS-2 LOW-PROFILE STEEL COUNTERTOP SUPPORTS IN INCREMENTS OF 3'-0" O.C. MAX. FOR SUPPORT AT KNEE 8. STONE, SOLID SURFACE AND QUARTZ COUNTERTOPS LESS THAN 3CM IN THICKNESS UNSUPPORTED BY CABINETRY SHALL HAVE 3/4" 9. MDF CABINETRY ACCEPTABLE EXCEPT AT WET AREAS; PROVIDE 3/4" PLYWOOD CABINETS IN WET AREAS AND SINK / LAVATORY CABINETS 10. PROVIDE CONTINUOUS PLYWOOD TOEKICKS FINISHED OT MATCH GENERAL FINISH NOTES

ı		PRODUCT SIZE BACKING INSTALL LOCATION CONTACT	_	105974 URBAN 139370AK00 25CM X 1M GLASBAC TILE ASHLAR PRIVATE OFFICES MELISSA TRAVIS / 904-466-9038 MELISSA.TRAVIS@INTERFACE.COM
	<u>LUXURY VI</u>	NYL TILE		
	LVT-1	MFR STYLE COLOR	- - -	PLANK - FIELD) MOHAWK GROUP LARGE AND LOCAL WOOD 832 TELLICO 9.25" x 59", 4.5MM THICKNESS 20 MIL WEAR LAYER RANDOM PLANK CORRIDORS, BREAK, LOBBY, AND CLOS RODERICK HEARD / 706-618-1322 RODERICK_HEARD@MOHAWKIND.COM
	LVT-2	MFR STYLE COLOR SIZE INSTALL	-	- FITNESS) SHAW RETHINK 0733V HYBRID 33100 9" x 36", 3MM THICKNESS HERRINGBONE FITNESS REBECCA CROSBY / 904-517-3308 REBECCA.CROSBY@SHAWCONTRACT.
				TILE
	TILE T-1	MFR STYLE COLOR SIZE INSTALL GROUT	- - - -	IC - BREAK ROOM AND RESTROOMS) TEC+ARTE DAKOTA ABYSS 2" x 8-1/2" STRAIGHT, SEE PLANS CUSTOM BUILDING PRODUCTS - #381 B KEVIN ADAMS / 904-772-4112 KEVIN.ADAMS@TRADITIONSINTILE.COM
Т	T-2	MFR STYLE COLOR SIZE INSTALL GROUT	- - - -	ERAMIC - RESTROOMS) DEL CONA USA CHAMONIX DARK GRAY 24" x 24" RUNNING BOND, 1/3" OFFSET, SEE PLAI CUSTOM BUILDING PRODUCTS - #370 D KEVIN ADAMS / 904-772-4112 KEVIN.ADAMS@TRADITIONSINTILE.COM
	T-3	MFR STYLE COLOR SIZE INSTALL GROUT	- - - -	C - RESTROOMS) DEL CONA USA CHAMONIX GRAY 12" x 24" RUNNING BOND, 1/3" OFFSET, SEE PLAI CUSTOM BUILDING PRODUCTS - #546 C KEVIN ADAMS / 904-772-4112 KEVIN.ADAMS@TRADITIONSINTILE.COM
	T-4	MFR STYLE COLOR SIZE INSTALL GROUT	- - - -	KEYSTONES MATTE SUEDE GRAY D182 2X4
	TILE TRIM TR-1	TILE EDGE MFR STYLE COLOR	-	ON WALLS/BASE (RESTROOM BASE & W. SCHLUTER JOLLY BRUSHED GRAPHITE

FLOORING

PRODUCT - SEE ARCHITECTURAL SPECIFICATIONS

(SEALED CONCRETE - BOH)

(GRAY - FIELD - MODULAR - OPEN OFFICE) TUFTED TEXTURED LOOP, RECYCLED CONTENT NYLON, SOLUTION DYED INTERFACE STYLE - ROCK SPRINGS COLOR 107290 TAUPE GNEISS PRODUCT - 13116K0G SIZE - 25CM x 1M BACKING - GLASBAC TILE INSTALL - ASHLAR OPEN OFFICE LOCATION -CONTACT -MELISSA TRAVIS / 904-466-9038 MELISSA.TRAVIS@INTERFACE.COM (GREEN/NEUTRAL PATTERN - MODULAR -CONFERENCE/PHONE ROOMS) TUFTED PATTERN LOOP, RECYCLED CONTENT NYLON, SOLUTION DYED INTERFACE STYLE - PANOLA MOUNTAIN COLOR - 107302 GREEN LICHEN PRODUCT - 125160250G SIZE - 50CM x 50CM BACKING - GLASBAC TILE INSTALL - NON-DIRECTIONAL WAITING/CONFERENCE, MAIN CONFERENCE, LOCATION -CONFERENCE ROOM AND PHONE ROOM MELISSA TRAVIS / 904-466-9038 MELISSA.TRAVIS@INTERFACE.COM (GREEN/GRAY/WHITE - MODULAR - PRIVATE OFFICES) - TUFTED SHEARED, RECYCLED CONTENT NYLON INTERFACE STYLE - PAINTED GESTURE COLOR - 105974 URBAN SETS T.COM BRIGHT WHITE ANS AND ELEVS **DOVE GRAY** CAPE GRAY DOVE GRAY (ACOUSTICAL CEILING PANEL) MFR - UNIKA VAEV PRODUCT - SCALA CEILING TILE COLOR CUZ53 BYRANSTON VAINSCOTING) SIZE 63"W X 47.5"L X 2.36"D INSTALL - SEE RCP LOCATION - BREAK ROOM COLOR - BRUSHED GRAPHITE MATERIAL - ALUMINUM

			TILE			CABINETRY
	TILE TRIM	// (CONT'D)		QUARTZ S	SURFACING	
	TR-2		SCHLUTER	QS-1	MFR - COLOR - EDGE - LOCATION - CONTACT -	CAESARSTONE 4003 SLEEK CONCRETE TBD MAIN CONFERENCE, BREAK ROOM BRIE WAKEFIELD / 850-755-7691 BRIE.WAKEFIELD@CAESARSTONE
			WALLS	PLASTIC L		DE LAMINATE - GENERAL) WILSONART
	<u>PAINT</u>				COLOR - LOCATION -	SAP WALNUT MAIN CONFERENCE, BREAK ROOM
	P-1		- FIELD) PPG DOGWOOD BLOSSOM PPG14-24 VARIES WITH SUBSTRATE; REFER TO GENERAL NOTES	PL-2	(VERTICAL GRAI MFR - COLOR - LOCATION -	DE LAMINATE - GENERAL) WILSONART FROSTY WHITE 1573-60 PRINT/COPY, BREAK ROOM
	P-2		PPG SWIRLING SMOKE PPG1007-2 VARIES WITH SUBSTRATE; REFER TO GENERAL	PL-3	(HORIZONTAL G MFR - COLOR - LOCATION -	RADE LAMINATE - GENERAL) WILSONART FASHION GREY D381-60 PRINT/COPY
	P-3		PPG	PL-4	(VERTICAL & HO MFR - COLOR - LOCATION -	RIZONTAL GRADE LAMINATE - GENE WILSONART BLACK VELVET 15505-31 MAIN CONFERENCE
	D.4		NOTES	CUSTOM/S	SPECIALTY MILLW	ORK
	P-4	(BLACK - WALLS MFR - COLOR - FINISH -	PPG ONYX PPG1011-7 VARIES WITH SUBSTRATE; REFER TO GENERAL NOTES	CM-1	BANQUETTES STYLE - LAYOUT - FINISH -	BANQUETTE W/ UPHOLSTERED SE/ REFER TO INTERIOR ELEVATIONS FULLY UPHOLSTERED, TIGHT SEAT PAINTED WOOD BASE
	WALLCO' WC-1	(GRAY/BLACK PA MFR - STYLE - COLOR -	ATTERN - VINYL - WORK CUBBIES) KOROSEAL INSIGHT GRID NG21-01 HIGH STREET	CUEL E DE	FABRIC (CM-1a) CUSHION - LOCATION -	- DESIGNTEX/EVERWHERE TEX HIGH DENSITY COMMERCIAL-GRAD FOAM, THICKNESS PER FABRICATO APPROX. 4"-5" THICK CLUBROOM & ACTIVITY
		SIZE - LOCATION - REMARKS - CONTACT -	52-54"W WORK CUBBIES INSTALL PER MFR INSTRUCTIONS FOR PROPER VENTILATION/PERMEABILITY COURTNEY BARROW / 407-848-0440 CBARROW@KOROSEAL.COM	SHELF BR	SHELF BRACKETMFR - PRODUCT - SIZE - FINISH -	MOCKETT SH55C 48"L, 1-1/2" THICK MATTE BLACK
	ACOUSTI AWT-1	C WALL TILE	COUSTIC SOLUTION)		INSTALL - LOCATION -	HORIZONTAL MAIN CONFERENCE
	7,001-1	MFR - PRODUCT -	UNIKA VAEV ECOUSTIC MATRIX	HARDWAI	RE	
		COLOR - SIZE - CONTACT -	TO BE SELECTED FROM STD MFR COLOR 19.7" X 19.7" X 2.56" BETH O'CONNELL / 908.872.4271 BETH@CURATEDCO.NET	HD-1	CABINET PULL MFR - PRODUCT - SIZE -	AMEROCK MONUMENT 6-1/4" CENTERS PULL 6.69"L X .39"W, 1.19 PROJECTION
			CEILINGS		FINISH - INSTALL - LOCATION -	MATTE BLACK SEE ELEVATIONS MAIN CONFERENCE, BREAK, AND L
	ACOUSTI ACT-1	C CEILING TILE (LAY-IN TILE) MFR - STYLE - COLOR - SIZE - EDGE -	ARMSTRONG ULTIMA WHITE 24X24	HD-2	CABINET PULL MFR - PRODUCT - SIZE - FINISH - INSTALL - LOCATION -	AMEROCK MONUMENT 6-1/4" CENTERS PULL 6.69"L X .39"W, 1.19 PROJECTION SATIN NICKEL SEE ELEVATIONS CORRIDOR AND COPY/PRINT
		EDGE - INSTALL - GRID - LOCATION - CONTACT -	BEVELED TEGULAR MOUNT TO EXPOSED CEILING BETWEEN JOISTS 15/16" PRELUDE, COLOR: WHITE, UNO WAITING/CONFERENCE AND PRIVATE OFFICES LAURI LEWALLEN / 904-445-9712			SPECIALTIES
	ACT-2	(LAY-IN LINEAR ⁻	LHLEWALLEN@ARMSTRONGCEILINGS.COM		COVERINGS	-0)
E	A01-2	MFR - STYLE - COLOR - SIZE - EDGE - INSTALL - GRID -	ARMSTRONG OPTIMA WHITE 24X96 BEVELED TEGULAR MOUNT TO EXPOSED CEILING BETWEEN JOISTS 9/16" INTERLUDE, COLOR: WHITE, UNO	RS-1 WINDOW	(ROLLER SHADE MFR - PRODUCT - OPENNESS - COLOR - MOUNTING - REMARKS -	S) SWF CONTRACT PRO SERIES MANUAL SOLAR SHAD 3% TO BE SELECTED FROM MFR STD (INSIDE DRYWALL PROVIDE STANDARD SQUARE FAS
		TRIM - LOCATION - REMARKS - CONTACT -	4"H AXIOM CLASSIC OPEN OFFICES PERIMETER AXIOM TRIM LAURI LEWALLEN / 904-528-6594 LHLEWALLEN@ARMSTRONGCEILINGS.COM	WF-1	(DECORATIVE W MFR - PRODUCT - LOCATION -	/INDOW FILM) 3M OR EQUAL FROSTED SEE PLANS
VS	ACT-3	(LAY-IN TILE) MFR - STYLE - COLOR - SIZE - EDGE - INSTALL -	ARMSTRONG MESA WHITE 24X24 BEVELED TEGULAR MOUNT TO EXPOSED CEILING BETWEEN JOISTS	WF-2	(WINDOW FILM) MFR - PRODUCT - LOCATION -	SMARTFILMS OR EQUAL
		GRID - LOCATION - CONTACT -	15/16" PRELUDE, COLOR: WHITE, UNO BACK OF HOUSE LAURI LEWALLEN / 904-528-6594			WOOD
	ACT-4	(WOOD VENEER	LHLEWALLEN@ARMSTRONGCEILINGS.COM PLANKS)	WOOD TR	RIM	
		MFR - STYLE - COLOR - SIZE - INSTALL - LOCATION -	ARMSTRONG WOODWORKS LINEAR VENEERED PLANKS TO BE SELECTED FROM MFR STD COLORS 6"W, 3/4" REVEAL SEE RCP MAIN CONFERENCE 103, LOBBY 204	WD-1	PRODUCT - PROFILE - SPECIES - LOCATION -	1 X 4 MOULDING TYPE 1 X 4 FLAT STOCK PAINT GRADE (FJ PINE OR EQUAL) SEE FINISH SCHEDULE AND ELEVA
		REMARKS -	AT LOBBY PROVIDE COORDINATING VENEER WRAPPED WOODWORKS TRIM AT PERIMETER	WS-1	MFR -	TBD -OR- TO MATCH XX

FINISH LIST

ENCE, BREAK ROOM, LOBBY/COFFEE LD@CAESARSTONEUS.COM 1520 Prudential Drive | Jacksonville, FL 32207 904.353.5900 [o] 904.353.5968 [f] ENCE, BREAK ROOM, LOBBY/COFFEE Email info@g4designinc.com | AA26001912 PLANS, DESIGN CONCEPTS, WRITTEN MATERIALS & DRAWINGS ARE NOT TO BE REPRODUCED, ALTERED, COPIED IN ANY FORM OR MANNER, NOR ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF GROUP 4 DO NOT SCALE THE DRAWINGS. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT. SCALE NOTED IS FOR FULL "ANSI-D" SIZE PRINTS. CONTRACTOR SHALL CHECK & VERIFY ALL JOB SITE CONDITIONS. DE LAMINATE - GENERAL) © 2022 Group 4 Design, Inc. // UPHOLSTERED SEAT & BACK ERIOR ELEVATIONS STERED. TIGHT SEAT & BACK WITH P-4 TEX/EVERWHERE TEXTURE/LIME COMMERCIAL-GRADE SEATING IESS PER FABRICATOR RECOMMENDATION --1/4" CENTERS PULL RENCE, BREAK, AND LOBBY -1/4" CENTERS PULL , 1.19 PROJECTION MANUAL SOLAR SHADES TED FROM MFR STD COLORS NDARD SQUARE FASCIA PANEL

Project Name: 1649 ATLANTIC OFFICE RENOVATION JACKSONVILLE, FL

Project Number: 22.0017.00 Drawn By: Checked By:

(FJ PINE OR EQUAL) HEDULE AND ELEVATIONS

COLOR - TBD -OR- TO MATCH XX CONTRACTOR TO PROVIDE TEST SAMPLES TO GROUP 4 DESIGN FOR APPROVAL PRIOR TO FINAL

WOOD BASE

(1 X 6 - FLAT STOCK - THROUGHOUT) PROFILE - 1 X 6 (3 /4" X 7-1 /4") FLAT STOCK SPECIES - PAINT GRADE (FJ PINE OR EQUAL), S4S

APPLICATION

interiors

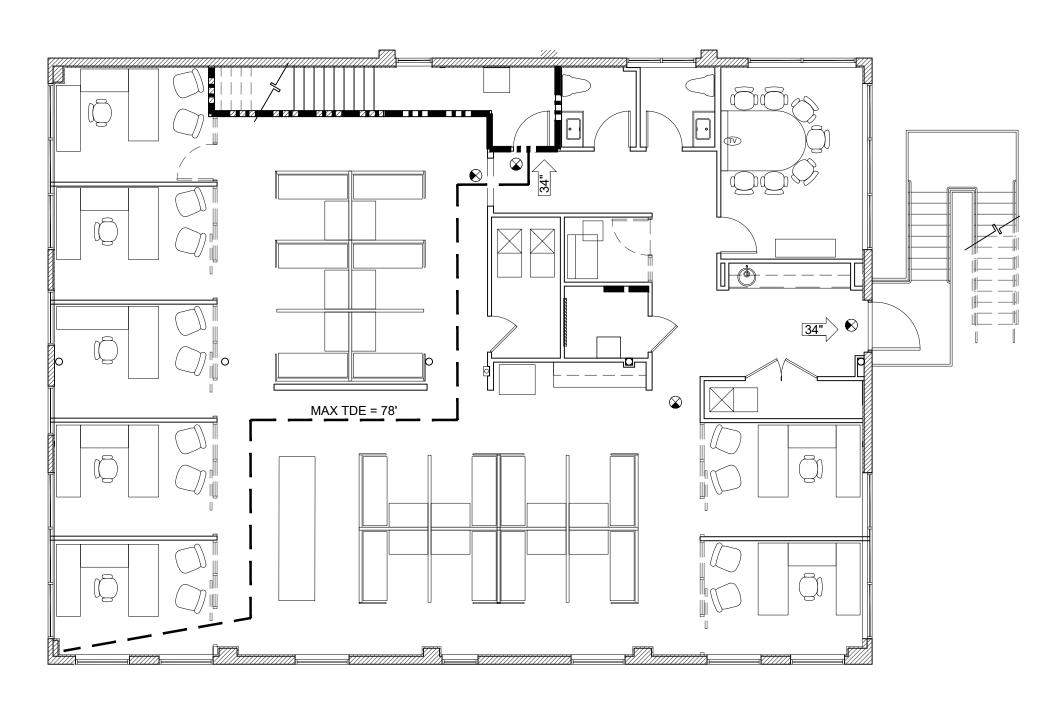
planning

architecture

Drawing Name:

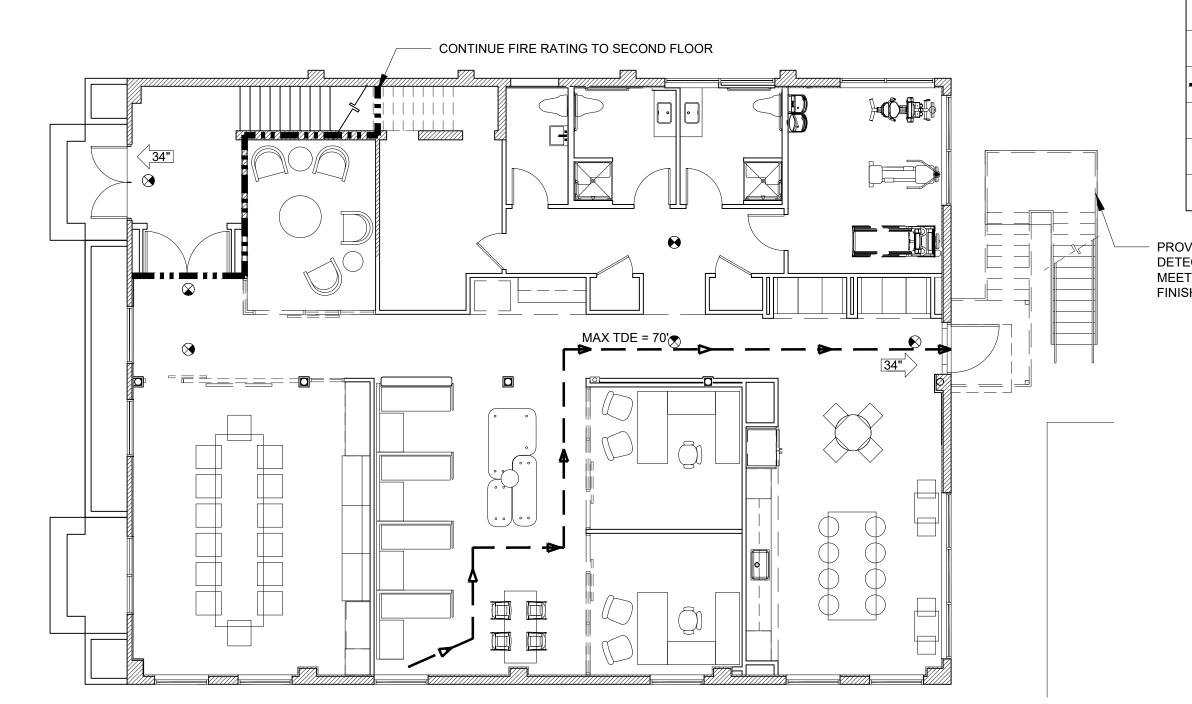
AND GENERAL NOTES

INTERIOR FINISH LIST



SECOND FLOOR - LIFE SAFETY PLAN

1/8" = 1'-0"



1 FIRST FLOOR - LIFE SAFETY PLAN

GENERAL NOTES

- A. SEE ELECTRICAL PLANS FOR EMERGENCY LIGHTING LOCATIONS & FIRE ALARM PLANS
- B. COMMON PATH OF EGRESS TRAVEL (CPT) THAT PORTION OF EXIT ACCESS WHICH THE OCCUPANTS ARE REQUIRED TO TRAVERSE BEFORE TWO SEPARATE AND DISTINCT PATHS OF EGRESS TRAVEL TO TWO EXITS ARE AVAILABLE. PATHS THAT MERGE ARE COMMON PATHS OF TRAVEL. COMMON PATHS OF EGRESS TRAVEL SHALL NOT BE INCLUDED WITHIN THE PERMITTED TRAVEL DISTANCE.
- C. EXIT ACCESS TRAVEL DISTANCE (TDE) THE MAXIMUM LENGTH OF EXIT ACCESS TRAVEL, MEASURED FROM THE MOST REMOTE POINT WITHIN A STORY TO THE ENTRANCE TO AN EXIT.

 C.A. EXITS INCLUDE EXTERIOR EXIT DOORS AT
- C.A. EXITS INCLUDE EXTERIOR EXIT DOORS AT GROUND LEVEL, EXIT ENCLOSURES, EXIT PASSAGEWAYS, EXTERIOR EXIT STAIRS, EXTERIOR EXIT RAMPS AND HORIZONTAL EXITS.

 C.B. TRAVEL DISTANCE LIMITATION IS ONLY
- NEAREST EXIT.

 D. PROVIDE 5LB A/B/C FE IN LOCATIONS AS INDICATED IN

APPLICABLE TO THE DISTANCE TO THE

E. NOT USED

LIFE SAFETY PLAN.

EACH RESTROOM.

- F. VERIFY EXIT SIGNAGE AND FE LOCATIONS WITH FIRE MARSHAL PRIOR TO INSTALLATION.
- G. PROVIDE TACTILE EXIT SIGNS AT ALL EXIT DOORS
 PER NFPA 101 7.10.1.3
 G.A. TACTILE EXIT SIGN SHALL BE LOCATED AT EACH
 EXIT DOOR REQUIRING AN EXIT SIGN
- FOLLOWS: EXIT
 G.C. TACTILE EXIT SIGNAGE SHALL COMPLY WITH

G.B. TACTILE EXIT SIGNAGE SHALL READ AS

- H. PROVIDE RESTROOM SIGNAGE PER FPC 403.4 AT
- I. SEE FIRE ALARM PLANS FOR PULL STATIONS, HORN/STROBE & PANEL LOCATIONS

AHJ PRIOR TO INSTALLATION

- J. VERIFY LOCATION OF ALL FIRE EXTINGUISHERS WITH
- K. A DESIGNATED AREA OF REFUGE IS PROVIDED AT EACH ELEVATOR LANDING RE: ELECTRICAL. PROVIDE ALL SIGNAGE REQUIRED IN ACCORDANCE WITH: NFPA 101 7.2.12.1.1 (2), 7.2.12.2.6, 7.2.12.3.5, 7.2.12.3.5.1, 7.2.12.3.5.2 & 7.2.12.3.6

OCCUPANT LOAD							
FIRST FLOOR							
BUSINESS (150 SF PER PERSON)	3,305 SF	23 PPL					
SECOND FLOOR							
		1					

SECOND FLOOR

BUSINESS (150 SF PER PERSON)

3,248 SF 22 PPL

LEGEND

(REFER TO ELEC DWGS FOR SPEC)

34" EXIT LOCATION W/ CLEAR ACCESS INCHES

- TRAVEL DISTANCE TO EXIT (TDE)

EXIT LIGHT CEILING MOUNTED

+++++- COMMON PATH OF TRAVEL (CPT) FFPC ONLY

SEMI RECESSED FIRE EXTINGUISHER CABINET (FEC) W/ FIRE EXTINGUISHER (FE)

1 HOUR RATED WALL (SEE WALL TYPE TAG)

LIGHT FRAMING SIGNAGE LOCATION (TOP AT 6'-0")

DENOTES EMERGENCY LIGHT (RE: ELECTRICAL PLAN)

PROVIDE 7"H STEEL CANE RAIL
DETECTOR UNDER EXST STAIRS TO
MEET ACCESSIBLITY REQUIREMENTS;
FINISH TO MATCH EXST STAIR

FSIGN

planning

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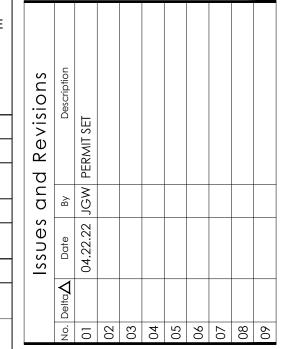
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VESTCOP,

Project Number: 22.0017.00

Drawn By: JW

Checked By: KLK

Project Name:

1649 ATLANTIC

OFFICE RENOVATION

JACKSONVILLE, FL

Drawing Name:

LIFE SAFETY PLAN

2020

(If door has both closer & latch)

Latch Side Approach - Push Side

NOTE: Y = 48" min. if door has closer

Latch Side Approach - Pull Side

42"min | X< 48" | 42"min |

ACCESSIBLE ROUTES - WALKING SURFACES

TAS (SECTION 403)

N.T.S.

NOTE: Y = 54" min. if door has closer

8 DOORS, DOORWAYS AND GATES TAS (SECTION 404)

Hinge Side Approach - Push Side

NOTE: Y = 48" min. if door has closer & latch

Doors and Gates in Series - Clearances

N.T.S.

Beveled or Curved Nosing

9 STAIRWAYS

TAS (SECTION 504)

N.T.S.

Handrail Clearance

& Projections

10 HANDRAILS TAS (SECTION 505)

Handrails

Non-Circular Cross Sections

N.T.S.

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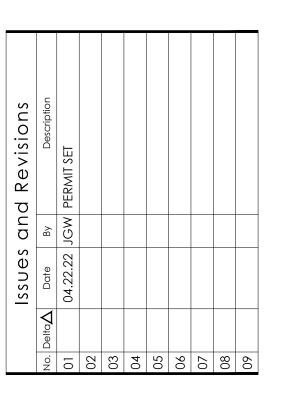
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Project Number: 22.0017.00 Drawn By: Checked By: Project Name: 1649 ATLANTIC OFFICE RENOVATION JACKSONVILLE, FL Drawing Name: ADA ACCESSIBILITY GUIDELINES

DESIGN

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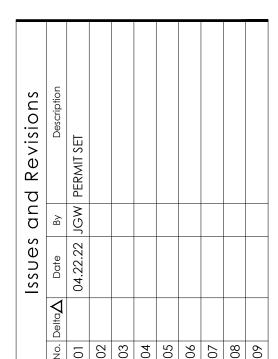
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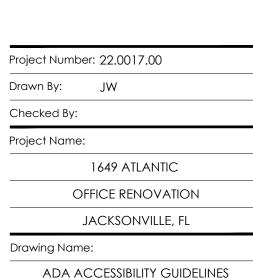
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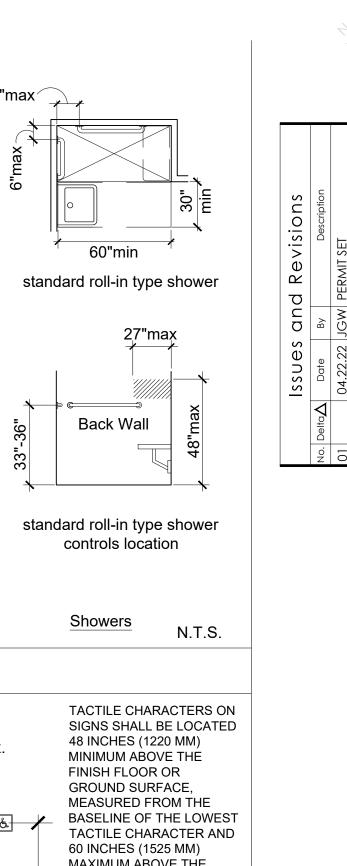


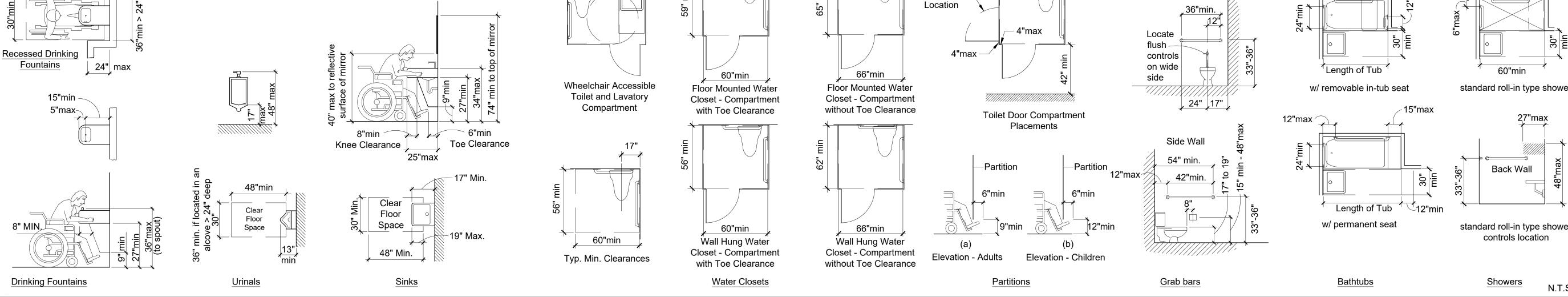






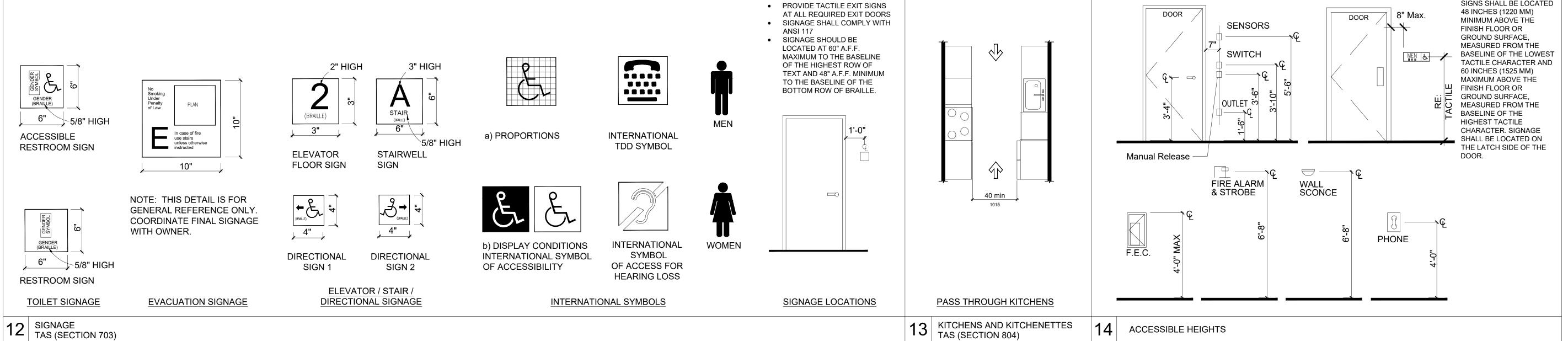
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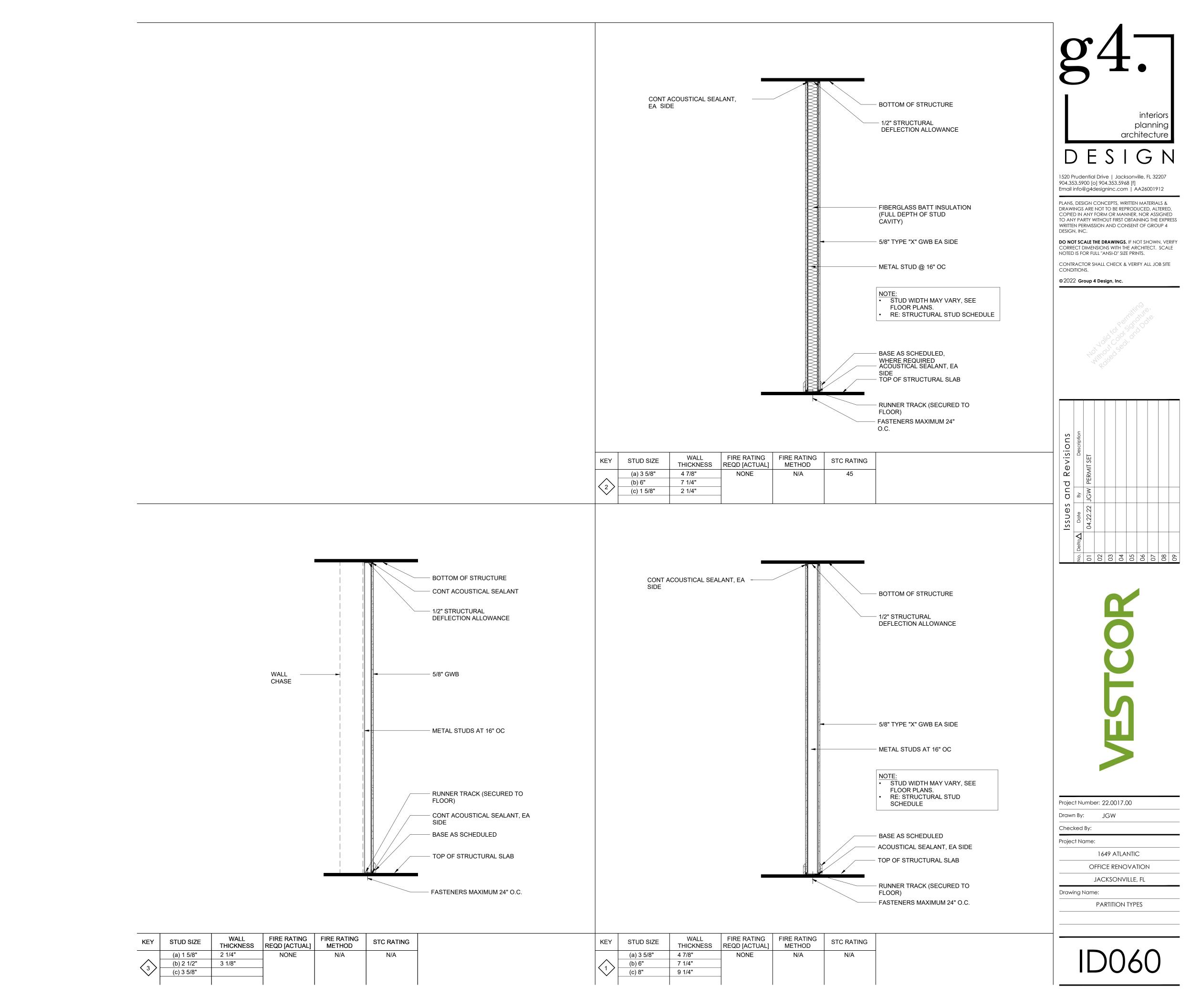




Door -

11 PLUMBING ELEMENTS AND FACILITIES TAS (CHAPTER 6)





COPIED IN ANY

DEMOLISH ALL EXISTING INTERIOR DOORS AND FRAMES ON ALL FLOORS. UNLESS

DEMOLISH ALL EXISTING CEILINGS. (INCLUDING, BUT NOT LIMITED TO: CEILING GRID,

MECHANICAL UNITS, DUCTS, GRILLES, VENTS, ETC.) ALL TO BE RECONSTRUCTED IN

CEILING TILES, GYPSUM, TRIM, LIGHTING, DIFFUSERS, FIRE ALARM, ETC.) UNLESS

DEMOLISH ALL MECHANICAL EQUIPMENT. (INCLUDING, BUT NOT LIMITED TO:

OTHERWISE NOTED.

OTHERWISE NOTED.

AND PLUMBING ENGINEERING DRAWINGS FOR ADDITIONAL HVAC, PLUMBING OR ELECTRICAL DEMOLITION REQUIRED. 12. DEMOLISH EXISTING FIRE EXTINGUISHERS AND CABINETS, TO BE REPLACED IN NEW CONSTRUCTION. VERIFY ALL LOCATIONS IN FIELD.

13. ALL ITEMS THAT HAVE BEEN DEMOLISHED SHALL BE PROPERLY DISCARDED IN IT'S ENTIRETY, UNLESS NOTED OTHERWISE.

** PRIOR TO THE START OF DEMO OF THE INTERIOR PARTITIONS, ALL BEARING WALLS AND COLUMNS SHALL BE LOCATED AND MARKED TO REMAIN. **

KEYNOTES - DEMOLITION PLAN

- REMOVE EXISTING DOOR AND FRAME; PREPARE TO RECEIVE MASONRY INFILL
- REMOVE EXISTING DOOR AND FRAME; PREPARE OPENING FOR NEW DOOR AS
- REMOVE EXISTING DOOR AND FRAME; PREPARE OPENING FOR NEW WINDOW AS SCHEDULED
- (4) EXST SAFE TO BE REMOVED
- (5) EXST BRICK CHASE TO BE DEMOLISHED; FLOOR TO BE INFILLED PER DWGS

DEMOLITION LEGEND

SPECIALTY ELEMENT TO REMAIN

EXST WALL TO REMAIN, UNO

EXST STRUCTURAL COLUMN TO REMAIN

EXISTING WALLS TO BE DEMOLISHED TO LIMITS SHOWN ON DRAWINGS; PATCH, REPAIR, SMOOTH AND CLEAN ADJACENT FLOORS, WALLS AND CEILINGS AS REQD TO PROVIDE SMOOTH SURFACE FOR NEW FINISHES

EXST DOOR TO BE REMOVED

interiors planning architecture

DESIGN

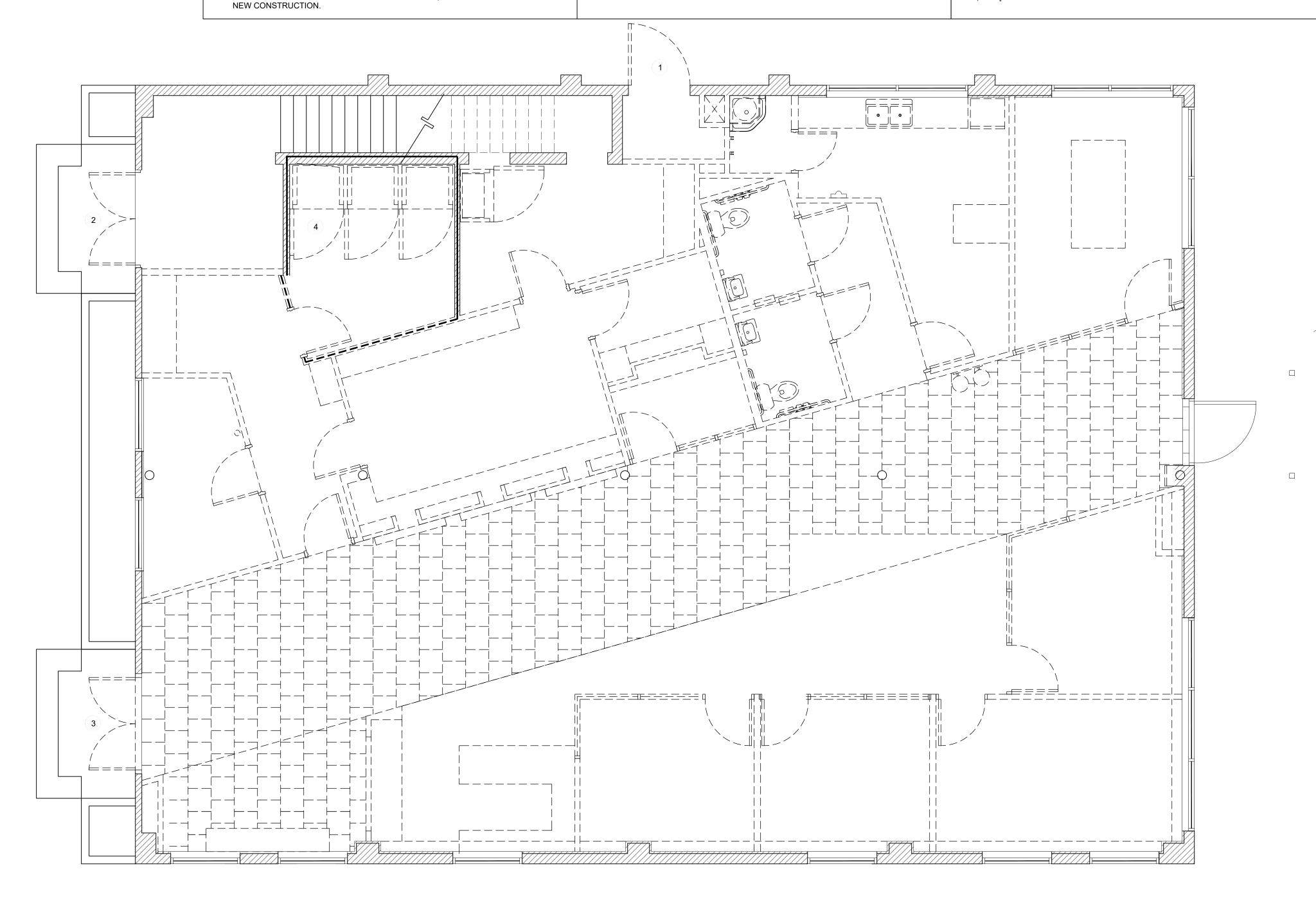
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Project Number: 22.0017.00

Checked By:

Project Name:

1649 ATLANTIC

OFFICE RENOVATION JACKSONVILLE, FL

Drawing Name: FIRST FLOOR

DEMOLITION PLAN

DEMOLISH ALL EXISTING INTERIOR DOORS AND FRAMES ON ALL FLOORS. UNLESS

DEMOLISH ALL EXISTING CEILINGS. (INCLUDING, BUT NOT LIMITED TO: CEILING GRID,

MECHANICAL UNITS, DUCTS, GRILLES, VENTS, ETC.) ALL TO BE RECONSTRUCTED IN

CEILING TILES, GYPSUM, TRIM, LIGHTING, DIFFUSERS, FIRE ALARM, ETC.) UNLESS

DEMOLISH ALL MECHANICAL EQUIPMENT. (INCLUDING, BUT NOT LIMITED TO:

OTHERWISE NOTED.

OTHERWISE NOTED.

NEW CONSTRUCTION.

DEMOLISH ALL PLUMING FIXTURES, (INCLUDING, BUT NOT LIMITED TO: PIPES AND CONNECTIONS, SANITARY PIPING, DOMESTIC WATER PIPING, DRINKING FOUNTAINS, ETC.) TO BE REPLACED IN NEW CONSTRUCTION.

- 10. DEMOLISH ALL ELECTRICAL DEVICES. (INCLUDING, BUT NOT LIMITED TO: WIRING, JUNCTION BOXES, WALL/CEILING FIXTURES, FIRE ALARM, ETC.) TO BE REPLACED IN
- 11. GENERAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL, ELECTRICAL AND PLUMBING ENGINEERING DRAWINGS FOR ADDITIONAL HVAC, PLUMBING OR ELECTRICAL DEMOLITION REQUIRED.
- 12. DEMOLISH EXISTING FIRE EXTINGUISHERS AND CABINETS, TO BE REPLACED IN NEW CONSTRUCTION. VERIFY ALL LOCATIONS IN FIELD.
- 13. ALL ITEMS THAT HAVE BEEN DEMOLISHED SHALL BE PROPERLY DISCARDED IN IT'S ENTIRETY, UNLESS NOTED OTHERWISE.

NEW CONSTRUCTION.

** PRIOR TO THE START OF DEMO OF THE INTERIOR PARTITIONS, ALL BEARING WALLS AND COLUMNS SHALL BE LOCATED AND MARKED TO REMAIN. **

KEYNOTES - DEMOLITION PLAN

- REMOVE EXISTING DOOR AND FRAME; PREPARE TO RECEIVE MASONRY INFILL
- REMOVE EXISTING DOOR AND FRAME; PREPARE OPENING FOR NEW DOOR AS
- REMOVE EXISTING DOOR AND FRAME; PREPARE OPENING FOR NEW WINDOW AS SCHEDULED
- (4) EXST SAFE TO BE REMOVED
- (5) EXST BRICK CHASE TO BE DEMOLISHED; FLOOR TO BE INFILLED PER DWGS

DEMOLITION LEGEND

SPECIALTY ELEMENT TO REMAIN

EXST WALL TO REMAIN, UNO

EXST STRUCTURAL COLUMN TO REMAIN

EXISTING WALLS TO BE DEMOLISHED TO LIMITS SHOWN ON DRAWINGS; PATCH, REPAIR, SMOOTH AND CLEAN ADJACENT FLOORS, WALLS AND CEILINGS AS REQD TO PROVIDE SMOOTH SURFACE FOR NEW FINISHES

EXST DOOR TO BE REMOVED

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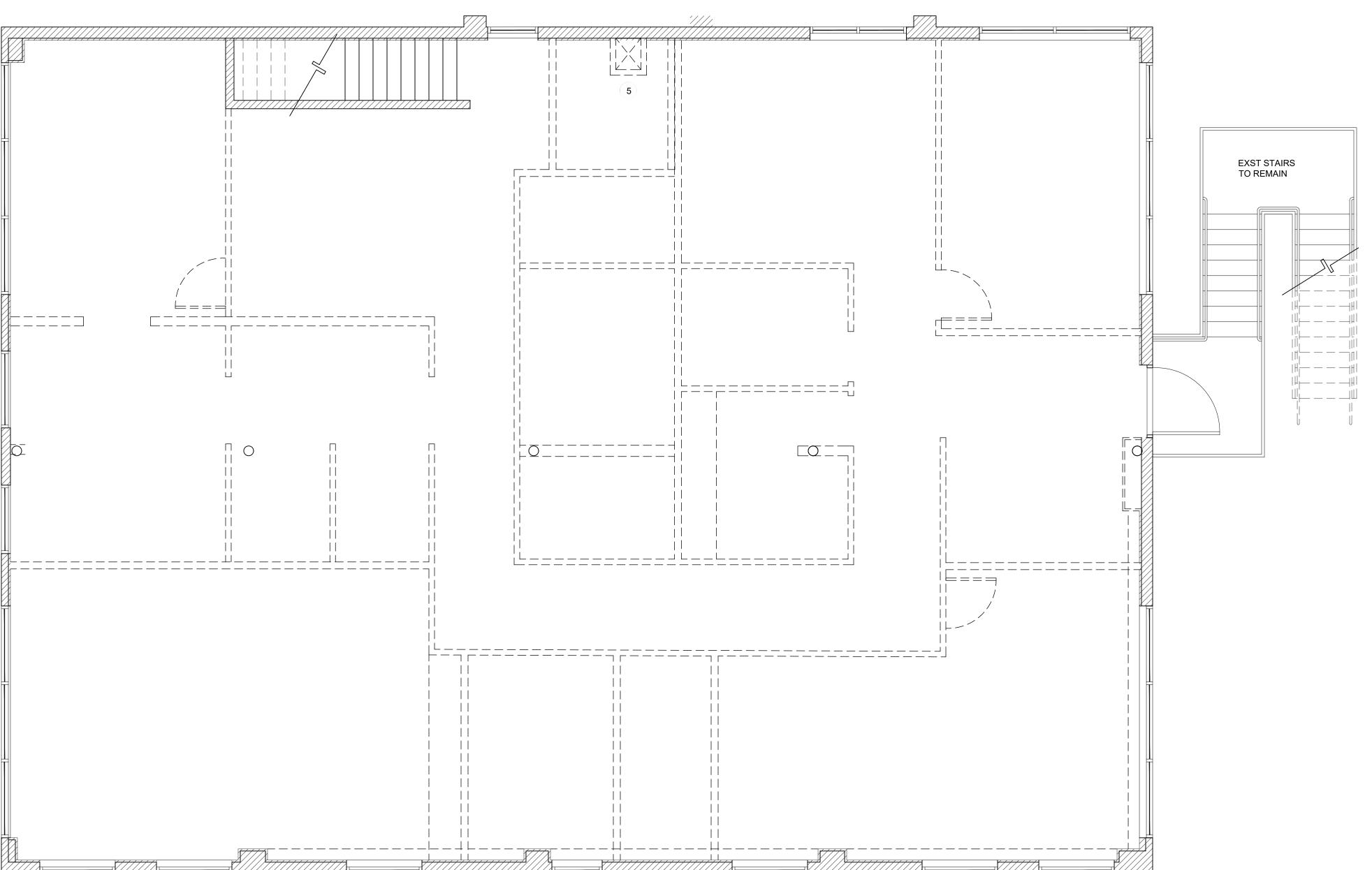
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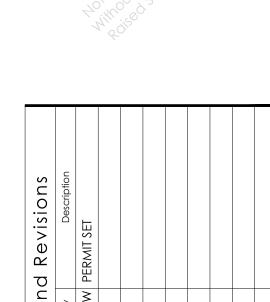
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Project Number: 22.0017.00

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> 1649 ATLANTIC OFFICE RENOVATION

JACKSONVILLE, FL

Drawing Name:

SECOND FLOOR DEMOLITION PLAN

RE: ID060 FOR PARTITION TYPES

- RE: ID020 FOR INTERIOR FINISH MATERIAL LEGEND
- RE: ID700 FOR DOOR AND HARDWARE SCHEDULE
- RE: ID900 SERIES FOR CEILING INFORMATION
- WHERE NEW GYP BD PARTITIONS ARE A CONTINUATION OF AN EXST PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYP BD SHALL BE ALIGNED WITH THE FACE OF THE EXST SURFACE
- SEE SHEETS ID040 AND ID041 ADA ACCESSIBILITY GUIDELINES FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES
- CONTRACTOR TO PROVIDE BLOCKING AS REQD AT ALL GRAB BARS AND WALL MOUNTED MONITORS & EQUIPMENT

KEYNOTES - NEW CONSTRUCTION

- ig($_1$ ig) PROVIDE GYP BD AT ALL UNFINISHED EXTERIOR WALLS; SHALL HAVE LEVEL 5 FINISI
- (2) INSTALL WF-1 WINDOW FILM AT INSIDE OF GLASS
- INFILL MASONRY OPENING WITH CMU; PREP SURFACE TO HAVE FINISHED FACE FLUSH WITH ADJACENT WALLS
- (4) FURRING AT COLUMN SHALL BE TIGHT TO STRUCTURE

LEGEND - NEW CONSTRUCTION

EXST WALL TO REMAIN, UNO

NEW CONSTRUCTION, TYP PARTITION, UNO

MODULAR WALL BY OTHERS

NEW SINGLE DOOR, DOOR FRAME AND HDWR

NOTE 1: ALL NEW DOORS TO BE 3'-0" WIDE MIN UNO NOTE 2: ALL NEW DOOR PULL HDWR TO BE ACCESSIBLE, APPROVED 'LEVER' STYLE

NEW DOUBLE DOOR, DOOR FRAME AND HDWR

FIRE EXTINGUISHER CABINET

\ID111

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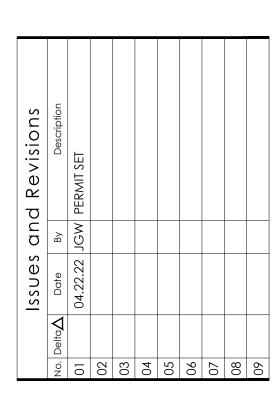
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Checked By:

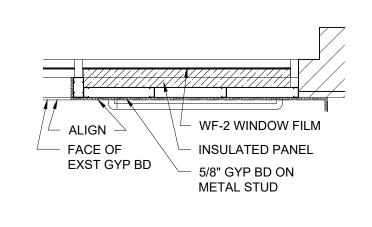
1/4" = 1'-0"

Project Name: 1649 ATLANTIC

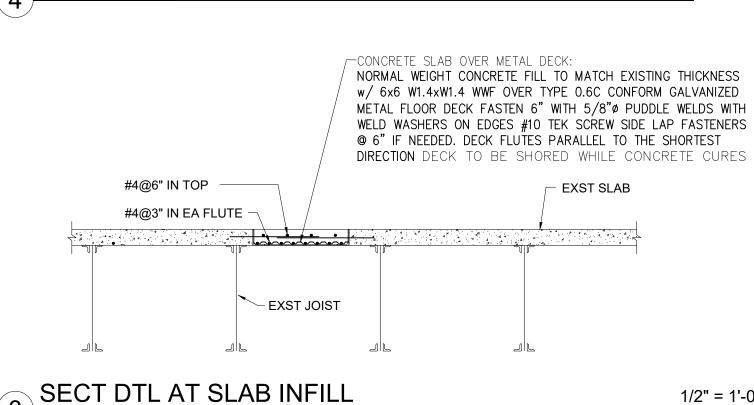
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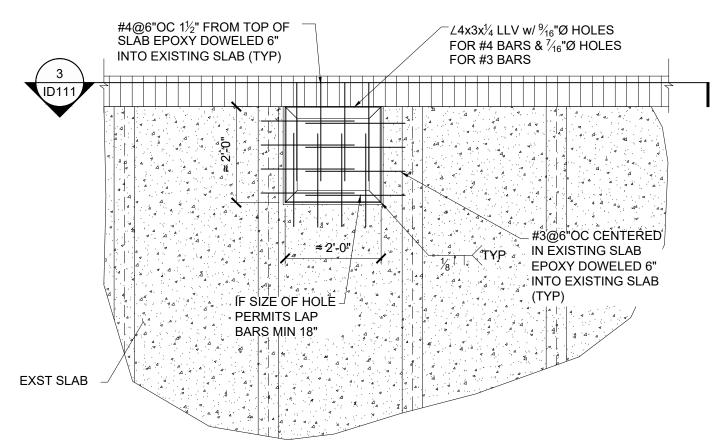
Drawing Name: FIRST FLOOR PLAN





PLAN DTL - FURRING AT EXST EXT GLAZING

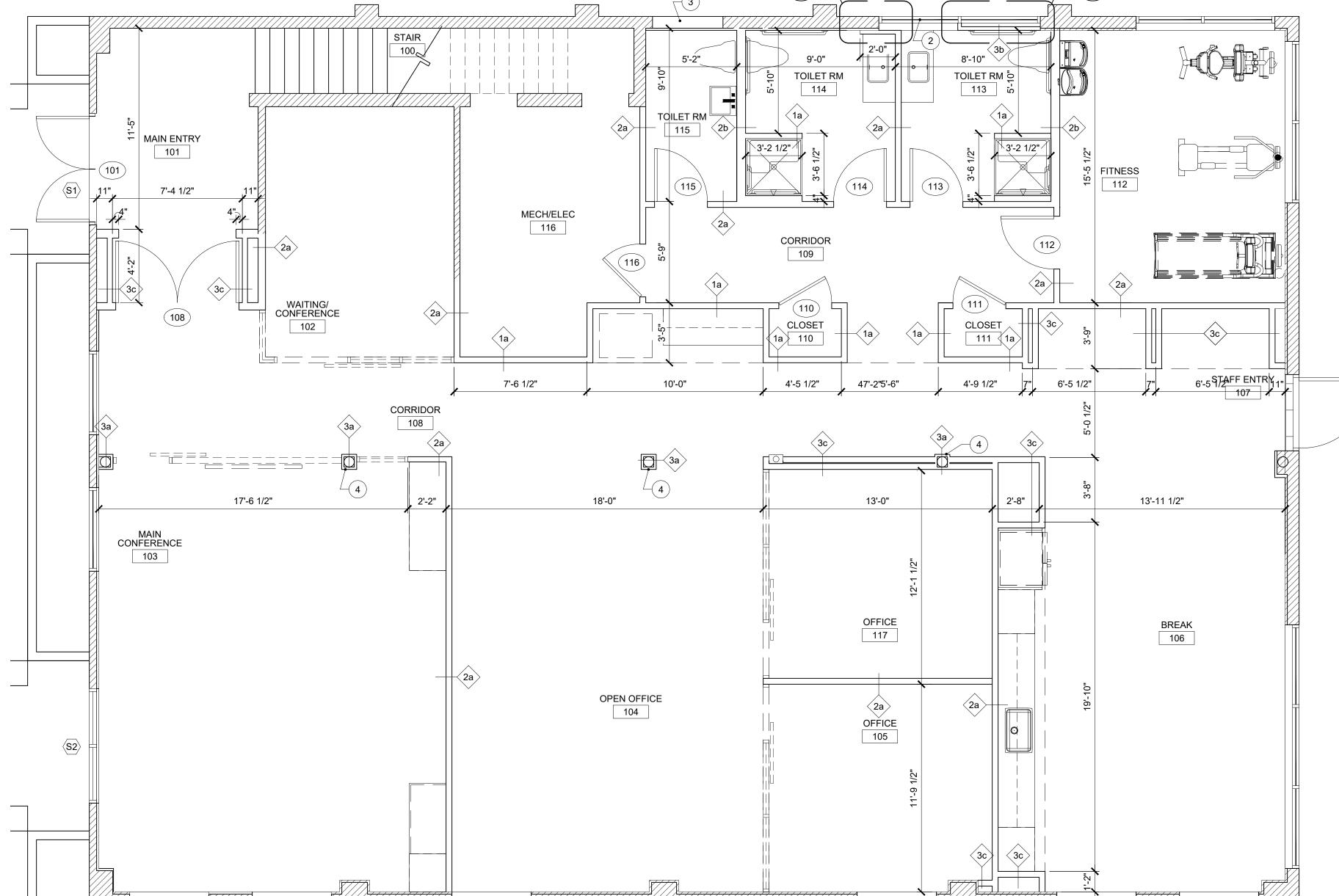




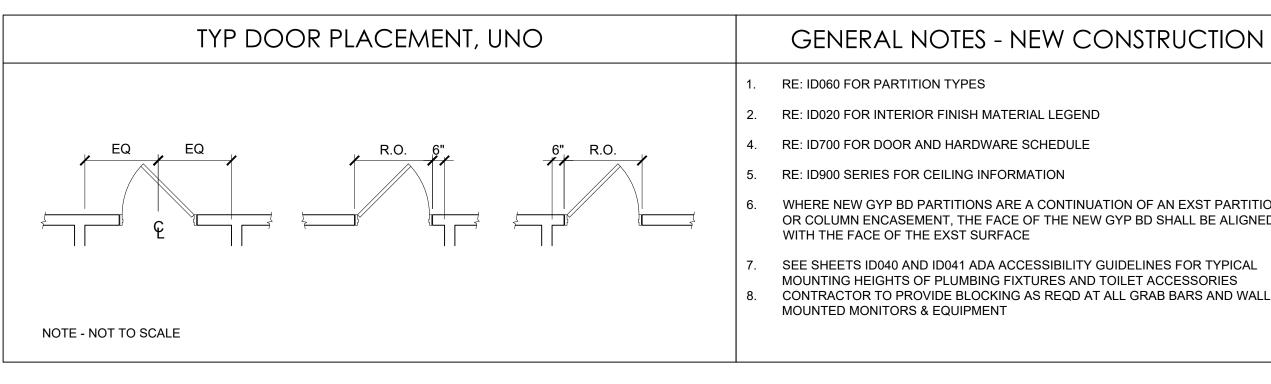
PLAN DTL AT SLAB INFILL

1/2" = 1'-0"

1/2" = 1'-0"



1 FIRST FLOOR PLAN



RE: ID060 FOR PARTITION TYPES

RE: ID020 FOR INTERIOR FINISH MATERIAL LEGEND

RE: ID700 FOR DOOR AND HARDWARE SCHEDULE

RE: ID900 SERIES FOR CEILING INFORMATION

WHERE NEW GYP BD PARTITIONS ARE A CONTINUATION OF AN EXST PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYP BD SHALL BE ALIGNED

WITH THE FACE OF THE EXST SURFACE

SEE SHEETS ID040 AND ID041 ADA ACCESSIBILITY GUIDELINES FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES AND TOILET ACCESSORIES CONTRACTOR TO PROVIDE BLOCKING AS REQD AT ALL GRAB BARS AND WALL

LEGEND - NEW CONSTRUCTION

KEYNOTES - NEW CONSTRUCTION

(1) PROVIDE GYP BD AT ALL UNFINISHED EXTERIOR WALLS; SHALL HAVE LEVEL 5 FINISI

INFILL MASONRY OPENING WITH CMU; PREP SURFACE TO HAVE FINISHED FACE

EXST WALL TO REMAIN, UNO

(4) FURRING AT COLUMN SHALL BE TIGHT TO STRUCTURE

(2) INSTALL WF-1 WINDOW FILM AT INSIDE OF GLASS

FLUSH WITH ADJACENT WALLS

IIE

NEW CONSTRUCTION, TYP PARTITION, UNO

MODULAR WALL BY OTHERS

NEW SINGLE DOOR, DOOR FRAME AND HDWR

NOTE 1: ALL NEW DOORS TO BE 3'-0" WIDE MIN UNO NOTE 2: ALL NEW DOOR PULL HDWR TO BE ACCESSIBLE, APPROVED 'LEVER' STYLE

NEW DOUBLE DOOR, DOOR FRAME AND HDWR

FIRE EXTINGUISHER CABINET

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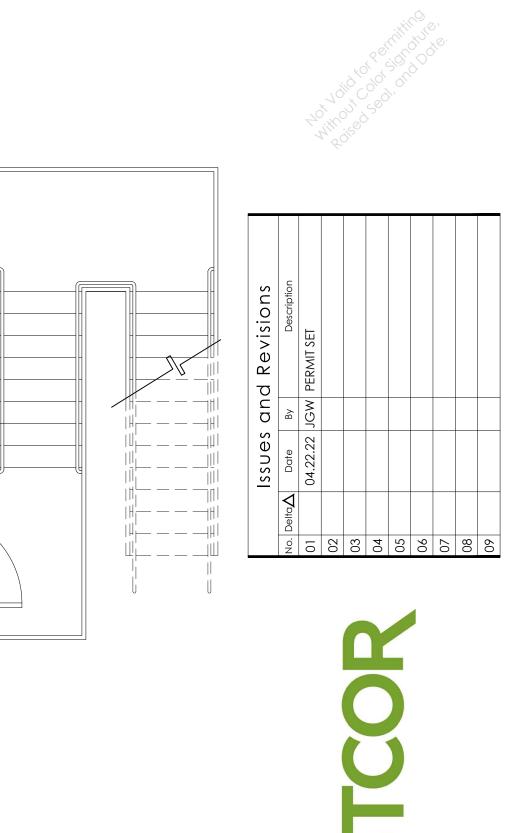
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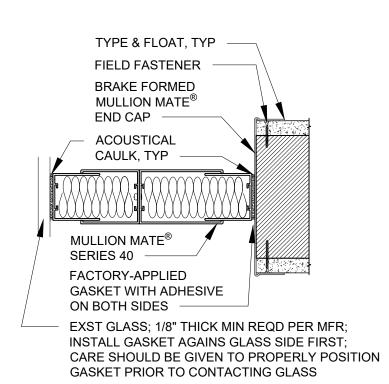
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Project Name:

1649 ATLANTIC OFFICE RENOVATION

Drawing Name:





PLAN DTL AT WALL-TO-GLASS TERMINATION 6" = 1'-0"
TYPICAL UNO

6" = 1'-0"

(1a) (S200) (201) 202 OPEN OFFICE 210 218 2 ID112 5'-8" 6'-8 1/2" 6'-8 1/2" CORRIDOR 209 6'-1" 7'-8" 5'-5" CONFERENCE 203 203 207 OFFICE 13'-6 1/2" MECH/STOR 11'-2" 208 LOBBY 206 204 5'-0 1/2" (205) OFFICE 216 CLOSET 205 OPEN OFFICE 211 13'-6 1/2" OFFICE 215 212

STAIR

200

SECOND FLOOR PLAN

214

(3) ID112

TLT RM

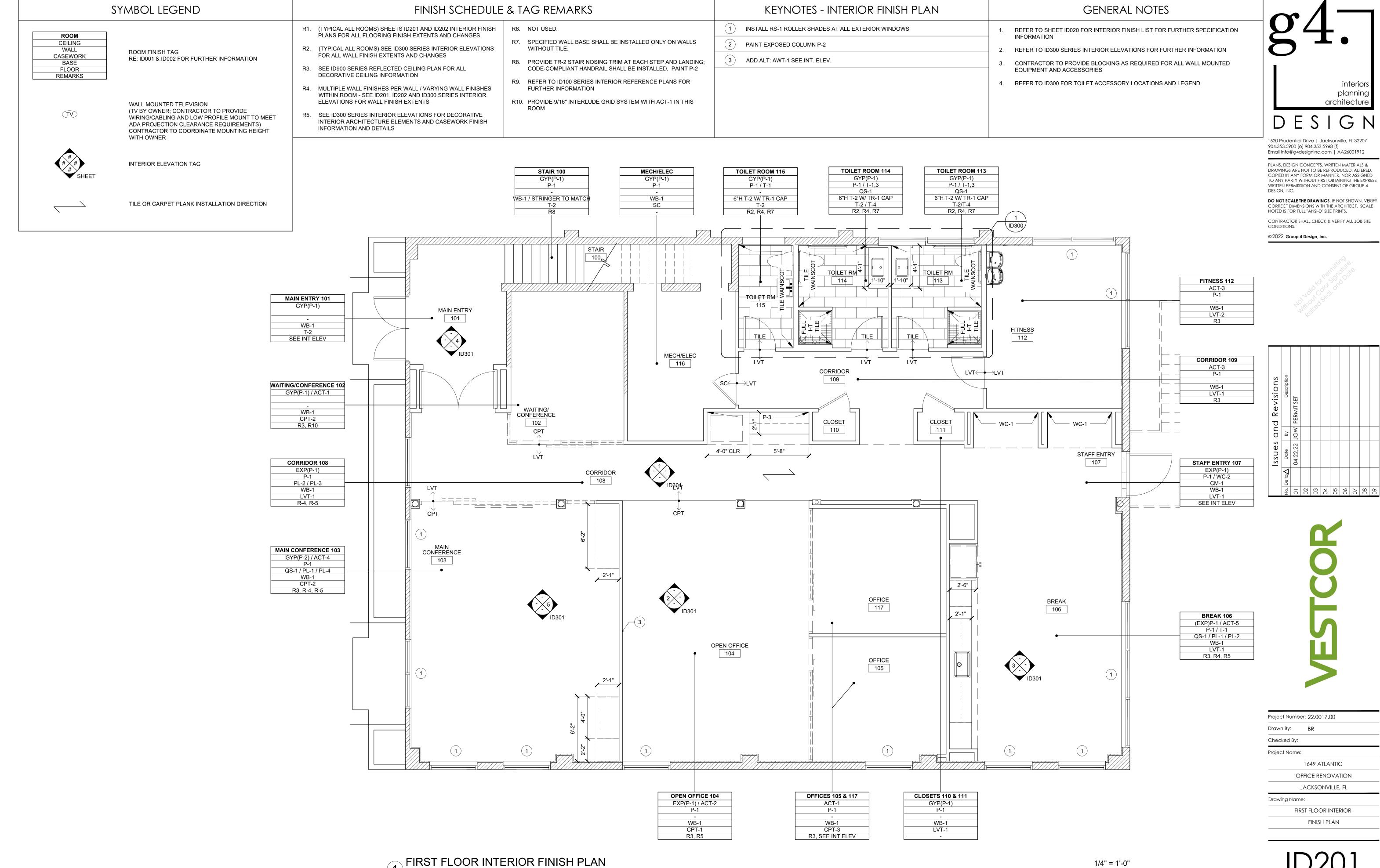
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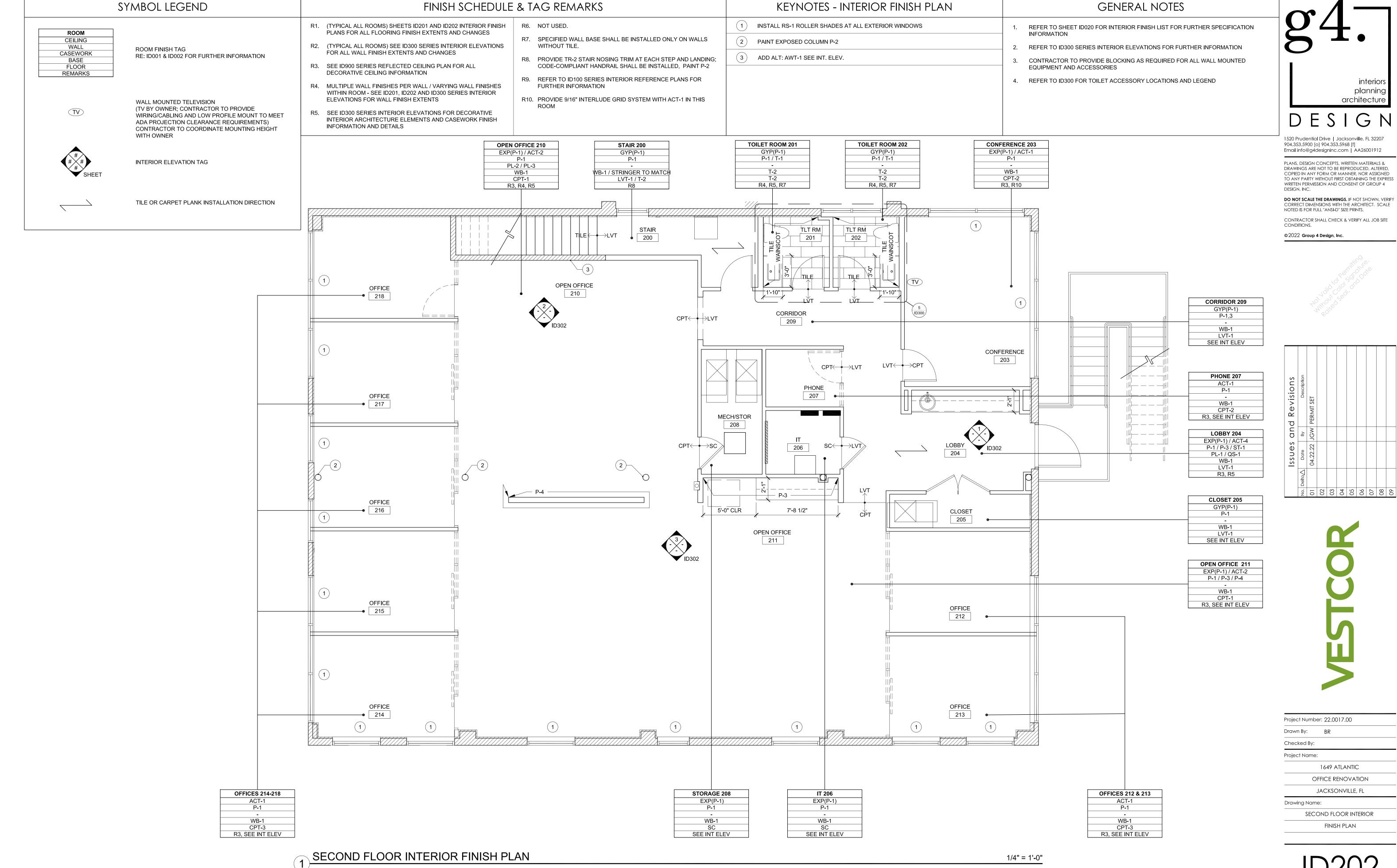
213

1/4" = 1'-0"

JACKSONVILLE, FL

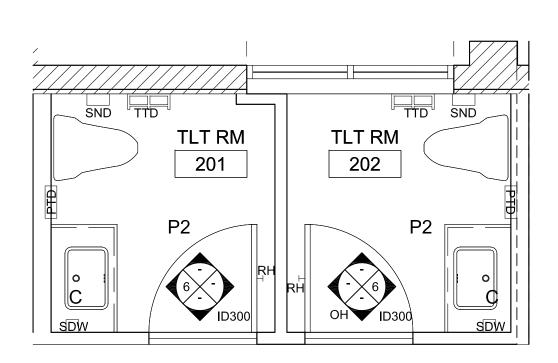
SECOND FLOOR PLAN





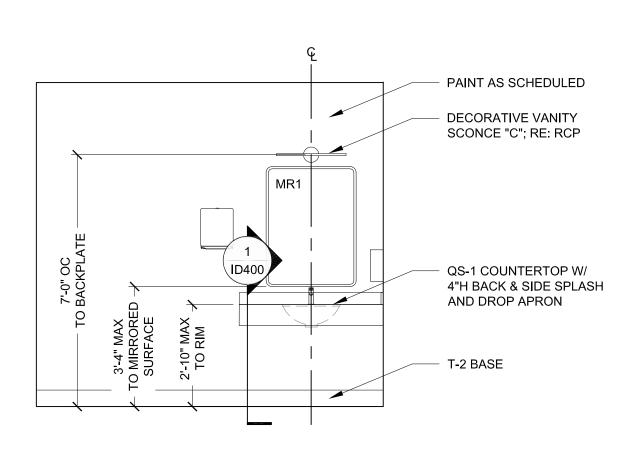
7 INT ELEV - TOILET ROOM 113

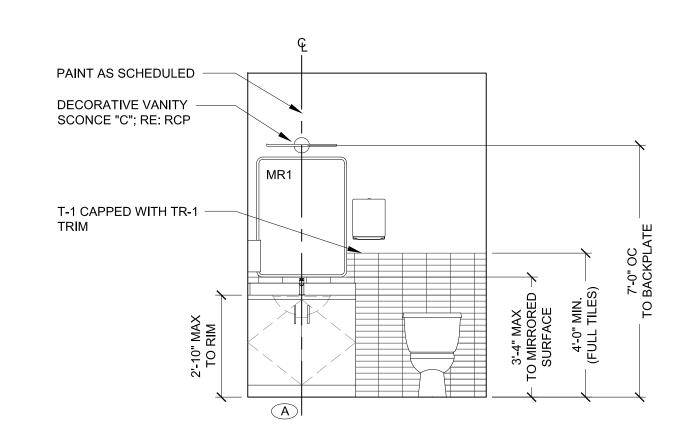
3/8" = 1'-0"



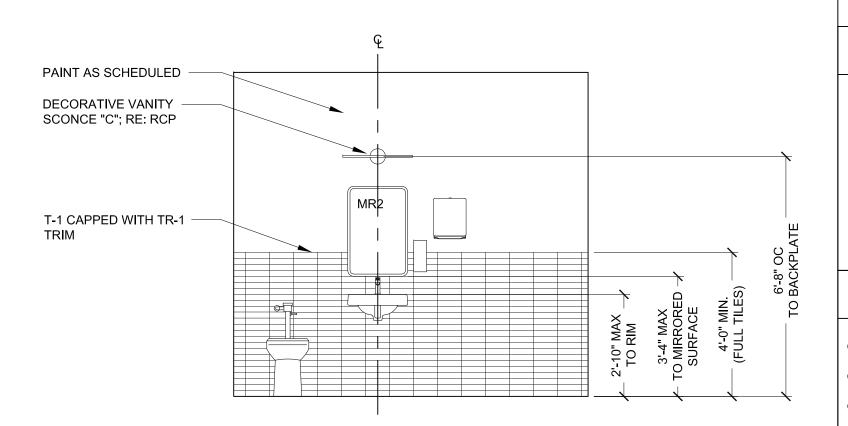
5 ENLG PLAN

3/8" = 1'-0"

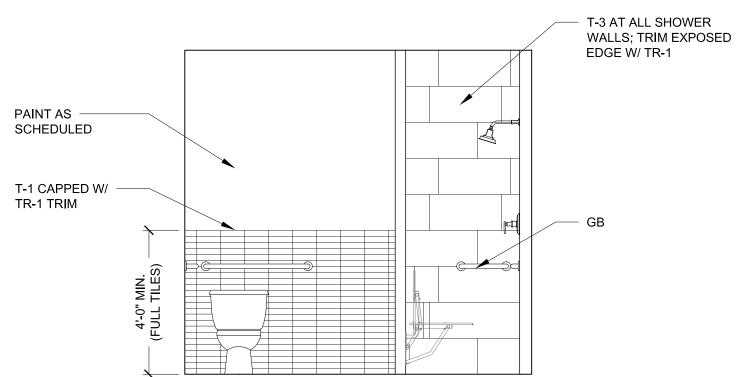




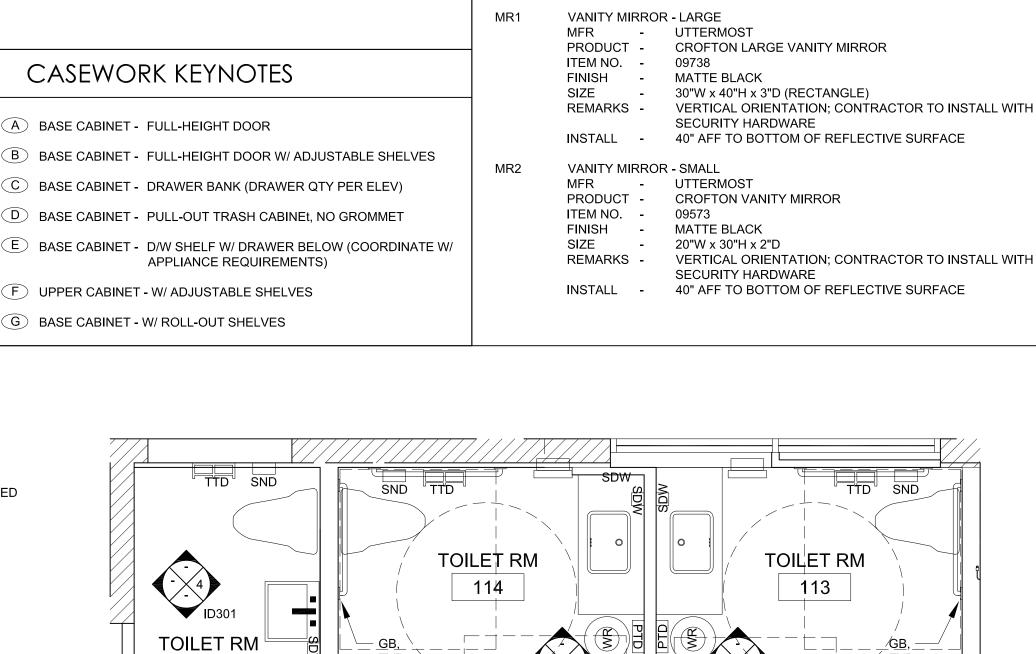
6 INT ELEV - TOILET ROOMS 201 & 202 3/8" = 1'-0"



4 INT ELEV - TOILET ROOM 115



2 INT ELEV - TOILET ROOM 113



TOILET ACCESSORY LEGEND

TTD

SS-ADA ACCESSIBLE SHOWER SEAT BOBRICK PRODUCT - REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT ITEM NO. -B-5181

ACCESSIBILITY REQUIREMENTS PER MFR

INSTALL RECOMMENDATIONS; ONE AT

STANDARD

INSTALL - MOUNT IN COMPLIANCE WITH

INSTALL - TBD; ONE LOCATED AT EACH SHOWER

GENERAL NOTES

REFER TO SHEET ID020 FOR CASEWORK GENERAL NOTES

WALL MOUNTED EQUIPMENT AND ACCESSORIES.

CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED FOR ALL

REFER TO SHEETS ID020 & ID021 FOR FURTHER SPECIFICATION

FINISH

SIZE - 33"W

SHOWER CURTAIN ROD

MFR - TBD

PRODUCT -

ITEM NO. -SIZE

INFORMATION.

GRAB BAR MFR BOBRICK

PRODUCT - FINO COLLECTION; STRAIGHT GRAB BAR

ITEM NO. - B-9806

FINISH - SATIN STAINLESS SIZE - VARIES - SEE 11/ID040 FOR REQS INSTALL - REF. SHEET ID041

TOILET TISSUE DISPENSER (SINGLE) MFR - BOBRICK

PRODUCT - FINO SURFACE-MOUNTED TOILET TISSUE DISPENSER

ITEM NO. - B-9543 FINISH - SATIN STAINLESS

SIZE - 5-1/5"L X 1"H X 2-15/16"D INSTALL - MOUNT IN COMPLIANCE WITH ACCESSIBILITY REQUIREMENTS PER MFR INSTALL RECOMMENDATIONS; ONE PER RESTROOM

SANITARY NAPKIN DISPOSAL

BOBRICK

PRODUCT - TRIMLINE SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL

ITEM NO. - B-35139 - SATIN STAINLESS FINISH

SIZE - 8-1/16"W x 14-1/8"H x 4-1/2"D

INSTALL - MOUNT IN COMPLIANCE WITH ACCESSIBILITY REQUIREMENTS PER MFR INSTALL RECOMMENDATIONS. ONE PER RESTROOM

SOAP DISPENSER - WALL-MOUNTED

 BOBRICK PRODUCT - AUTOMATIC WALL-MOUNTED FOAM SOAP DISPENSER

ITEM NO. - B-2013 FINISH - SATIN FINISH, STAINLESS STEEL

SIZE - 4-1/4"W X 9-9/16"H X 4-7/32"D INSTALL - 4'-0" AFF TO BOTTOM OF SOAP DISPENSER

PAPER TOWEL DISPENSER

MFR BOBRICK PRODUCT - FINO SURFACE MOUNTED PAPER TOWEL DISPENSER

ITEM NO. - B-9262 SATIN FINISH, STAINLESS STEEL

SIZE - 11-11/16"W x 13-7/16"H x 3-15/16"D

REMARKS - PROVIDE TOWELMATE ACCESSORIES; CONTRACTOR TO MOUNT IN COMPLIANCE WITH ACCESSIBILITY REQUIREMENTS

WASTE RECEPTACLE MFR SIMPLE HUMAN

PRODUCT - SEMI-ROUND OPEN CAN, 60L ITEM NO. - CW1468

FINISH - BRUSHED STAINLESS STEEL SIZE - 29.0"H X 13.1"D X 18.5"W

REMARKS - LOCATE 1 AT EACH TOILET ROOM

ROBE HOOK

MFR - DELTA PRODUCT - GALEON ROBE HOOK ITEM NO. - #77235-SS

 STAINLESS FINISH SIZE - 1-13/16"W x 2-13/16"D

INSTALL - CENTER OF DOOR AS INDICATED ON ENLARGED PLAN

ADA TOILET ROOMS - 4'-0" AFF TO CL OF HOOK UNO NON-ACCESSIBLE TOILET RMS - 66" AFF TO CL OF HOOK

REMARKS - VERTICAL ORIENTATION; CONTRACTOR TO INSTALL WITH

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Project Number: 22.0017.00 Drawn By:

Checked By:

Project Name: 1649 ATLANTIC

OFFICE RENOVATION JACKSONVILLE, FL

Drawing Name:

INTERIOR ELEVATIONS

3/8" = 1'-0"

3/8" = 1'-0"

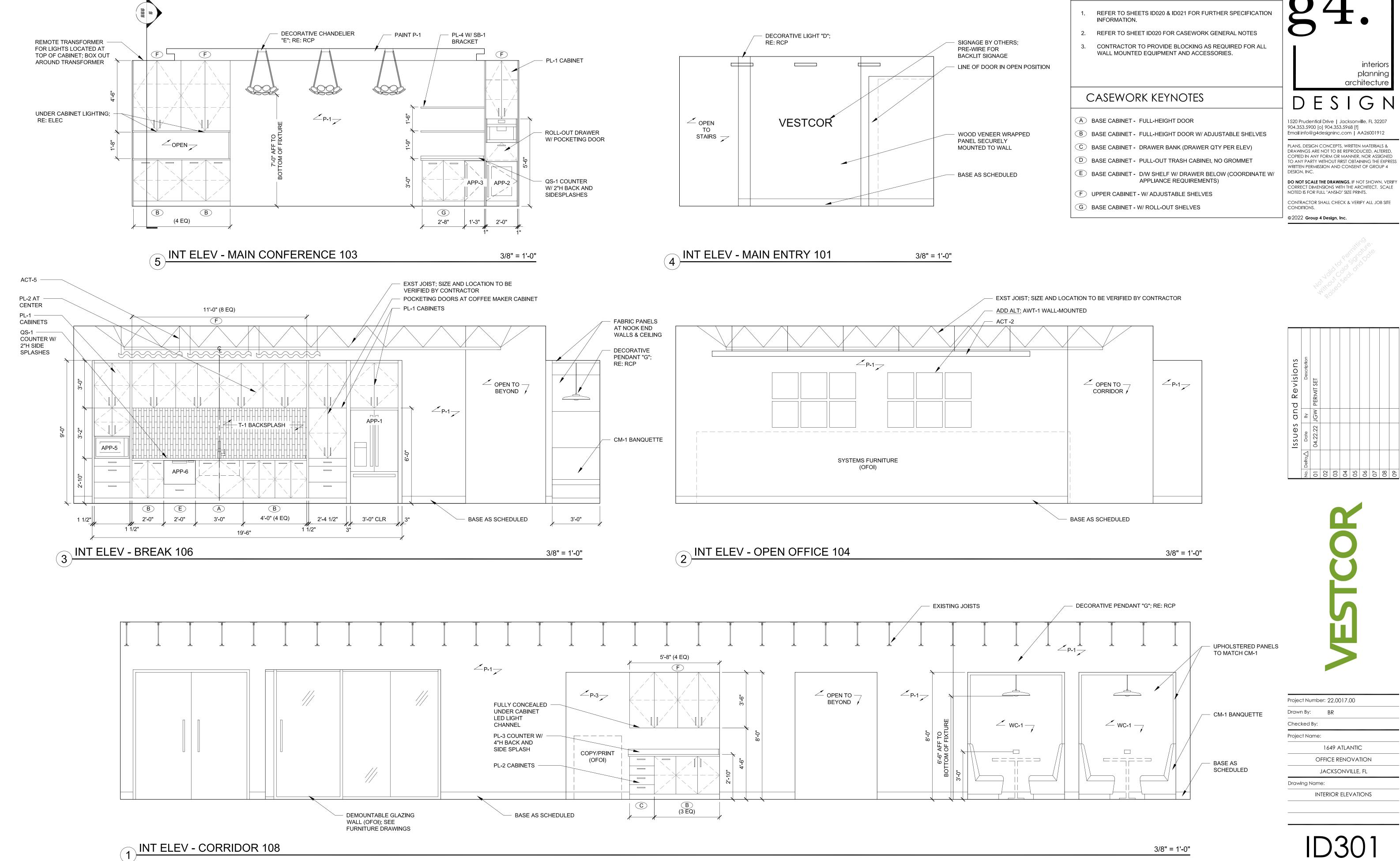
3/8" = 1'-0"

1 ENLG PLAN

115

3/8" = 1'-0"





GENERAL NOTES

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GENERAL NOTES

- 1. REFER TO SHEETS ID020 & ID021 FOR FURTHER SPECIFICATION INFORMATION.
- 2. REFER TO SHEET ID020 FOR CASEWORK GENERAL NOTES
- 3. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES.

CASEWORK KEYNOTES

- A BASE CABINET FULL-HEIGHT DOOR
- B BASE CABINET FULL-HEIGHT DOOR W/ ADJUSTABLE SHELVES
- © BASE CABINET DRAWER BANK (DRAWER QTY PER ELEV)
- D BASE CABINET PULL-OUT TRASH CABINET, NO GROMMET
- E BASE CABINET D/W SHELF W/ DRAWER BELOW (COORDINATE W/ APPLIANCE REQUIREMENTS)

ACT-4

FULLY CONCEALED UNDER CABINET LED LIGHT CHANNEL

QS-1 COUNTER W/2"H END SPLASHES

- BASE AS SCHEDULED

PL-1 CABINETS

U/C FRIDGE

3/8" = 1'-0"

F

- F UPPER CABINET W/ ADJUSTABLE SHELVES
- G BASE CABINET W/ ROLL-OUT SHELVES



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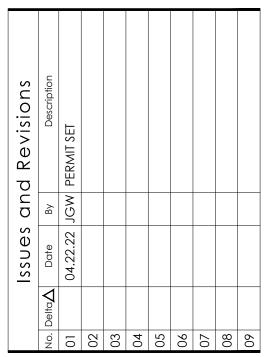
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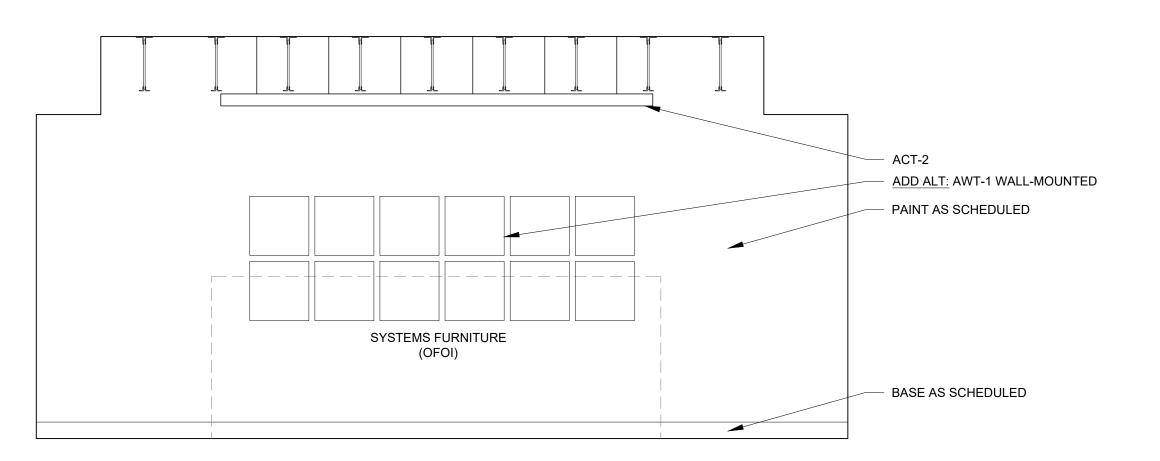






Project Number: 22.0017.00 Drawn By: Checked By: Project Name: 1649 ATLANTIC OFFICE RENOVATION JACKSONVILLE, FL

Drawing Name: INTERIOR ELEVATIONS



1 INT ELEV - LOBBY 204

∠P-1⊃

OPEN TO THE BEYOND

2 INT ELEV - OPEN OFFICE 210 3/8" = 1'-0"

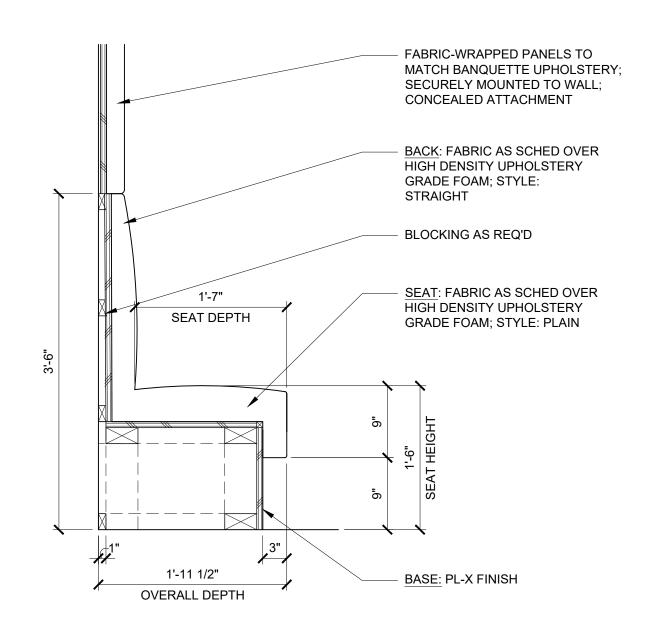
(D) (C) B

1'-3" 1'-0"

10'-1 3/4"

EQ

2'-0"



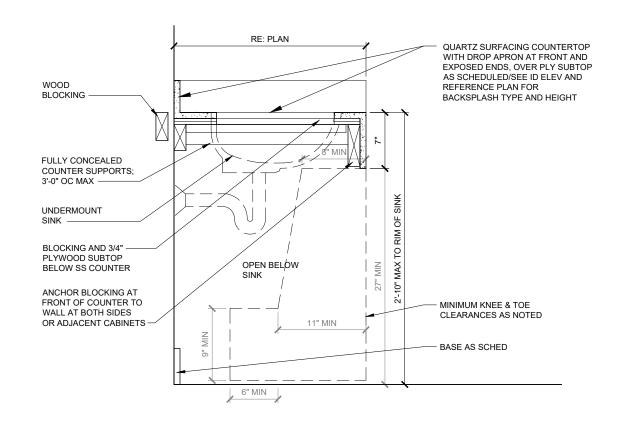
3 SECTION DETAIL BANQUETTE

1" = 1'-0"

WALL AS SCHED WOOD BLOCKING AS REQUIRED COLD WATER SUPPLY LINE; RE: PLUMBING UPPER CABINET "SET ON", VARIES PER LOCATION: RE: INTERIOR ELEVATIONS POWER RECEPTACLE TO BE ACCESSED INSIDE CASEWORK; RE: ELECTRICAL PARTITION PANEL TO CONCEAL ACCURIDE HARDWARE; FINISH TO MATCH CABINETRY ACCURIDE PRO POCKET SLIDE FOR POCKET AND FLIPPER DOORS - W/ AUTO OPEN CB1321 QUARTZ COUNTERTOP FULL WIDTH OF BASE CABINETRY; WITH BACK- AND RE: INT\ELEV SIDESPLASH, VARIES PER LOCATION, RE: INTERIOR ELEVATIONS PLAM INTERIOR; FINISH TO MATCH **EXTERIOR**

2 SECTION DETAIL POCKET DOOR - CABINET

1" = 1'-0"



SECTION DETAIL VANITY COUNTER

1" = 1'-0"

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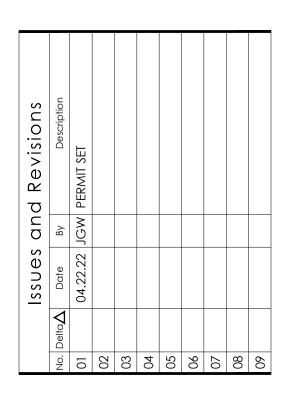
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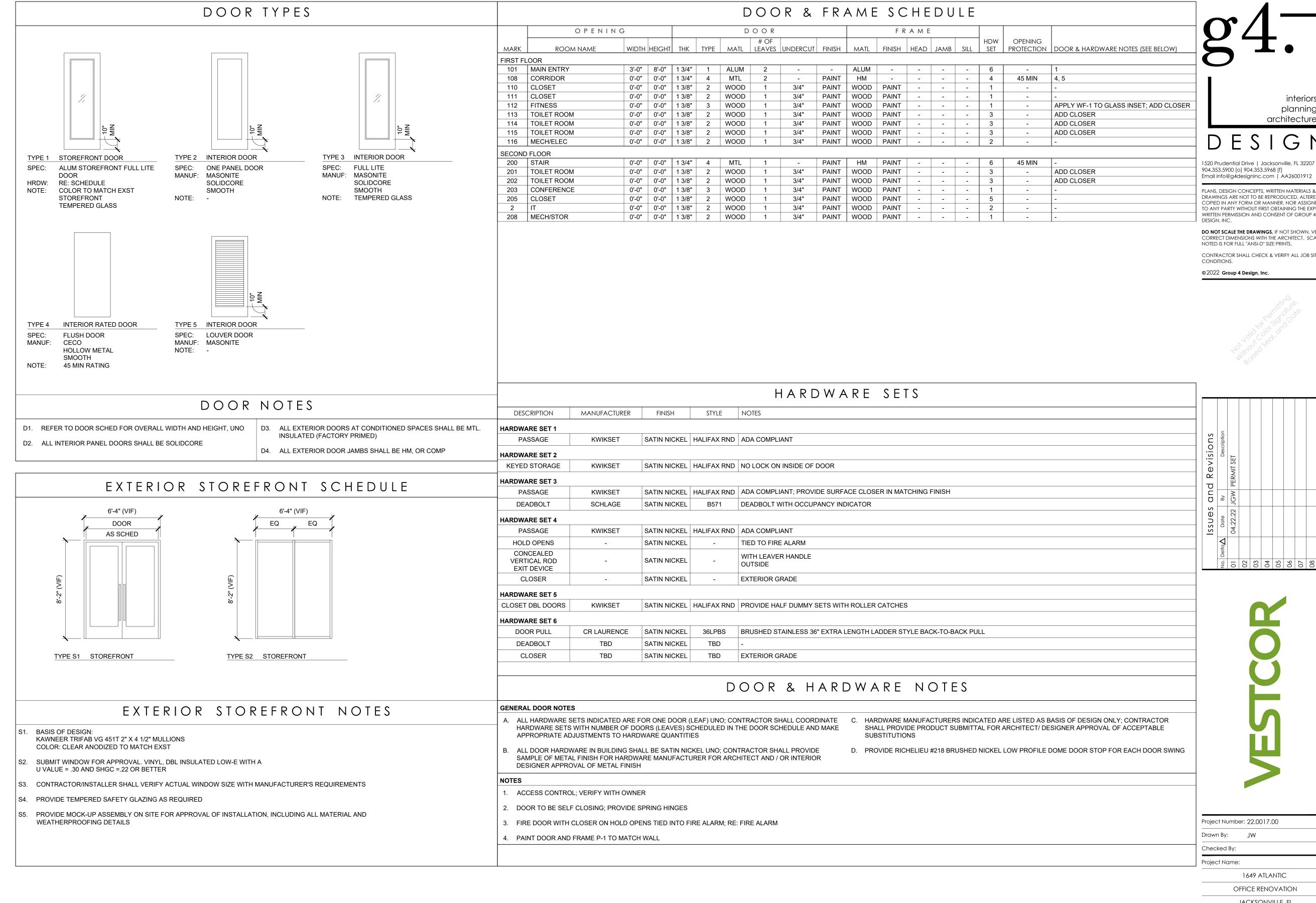
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Project Name:

1649 ATLANTIC OFFICE RENOVATION

JACKSONVILLE, FL Drawing Name:

INTERIOR DETAILS



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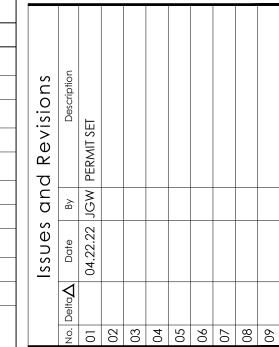
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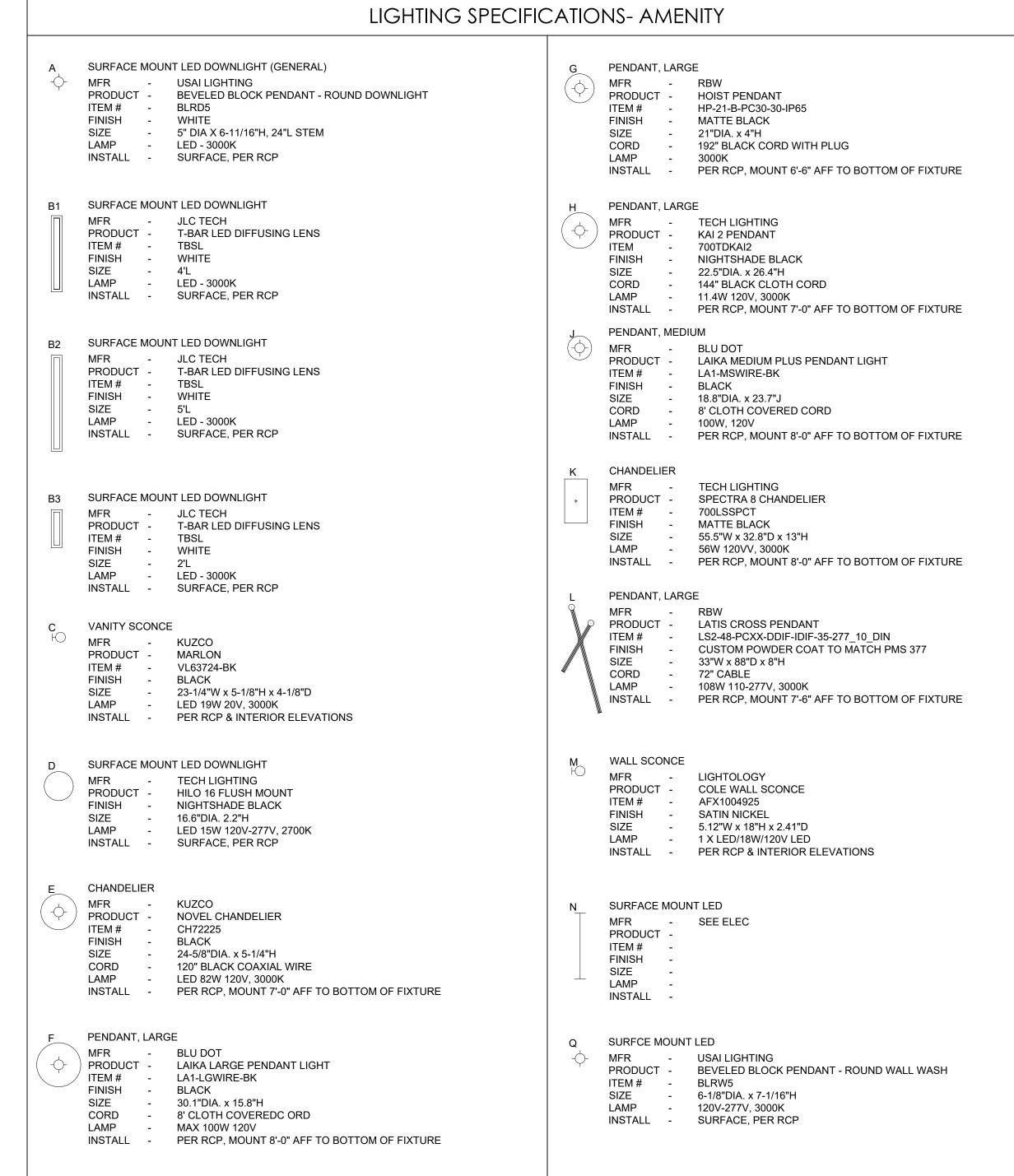
1649 ATLANTIC

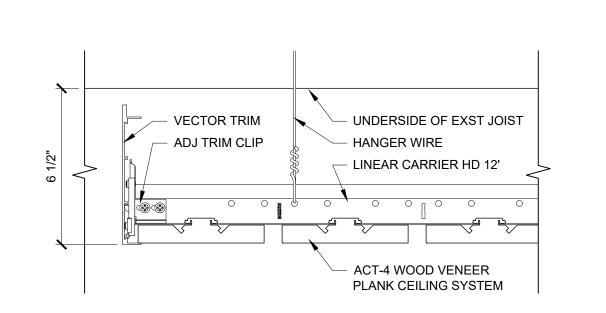
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Drawing Name:

DOOR AND FRAME SCHEDULE

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\" -

1 CELING COVE DTL

HANGER WIRE
LINEAR CARRIER HD 12'

#-#" AFF

UNDERSIDE OF EXST JOIST

ACT-4 WOOD VENEER
PLANK CEILING SYSTEM

LED TAPE; RE: ELEC

WALL PER DWGS

PAINT AS SCHEDULED

Project Number: 22.0017.00

Drawn By: JW/BR

Checked By:

Project Name:

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LIGHTING SPECS

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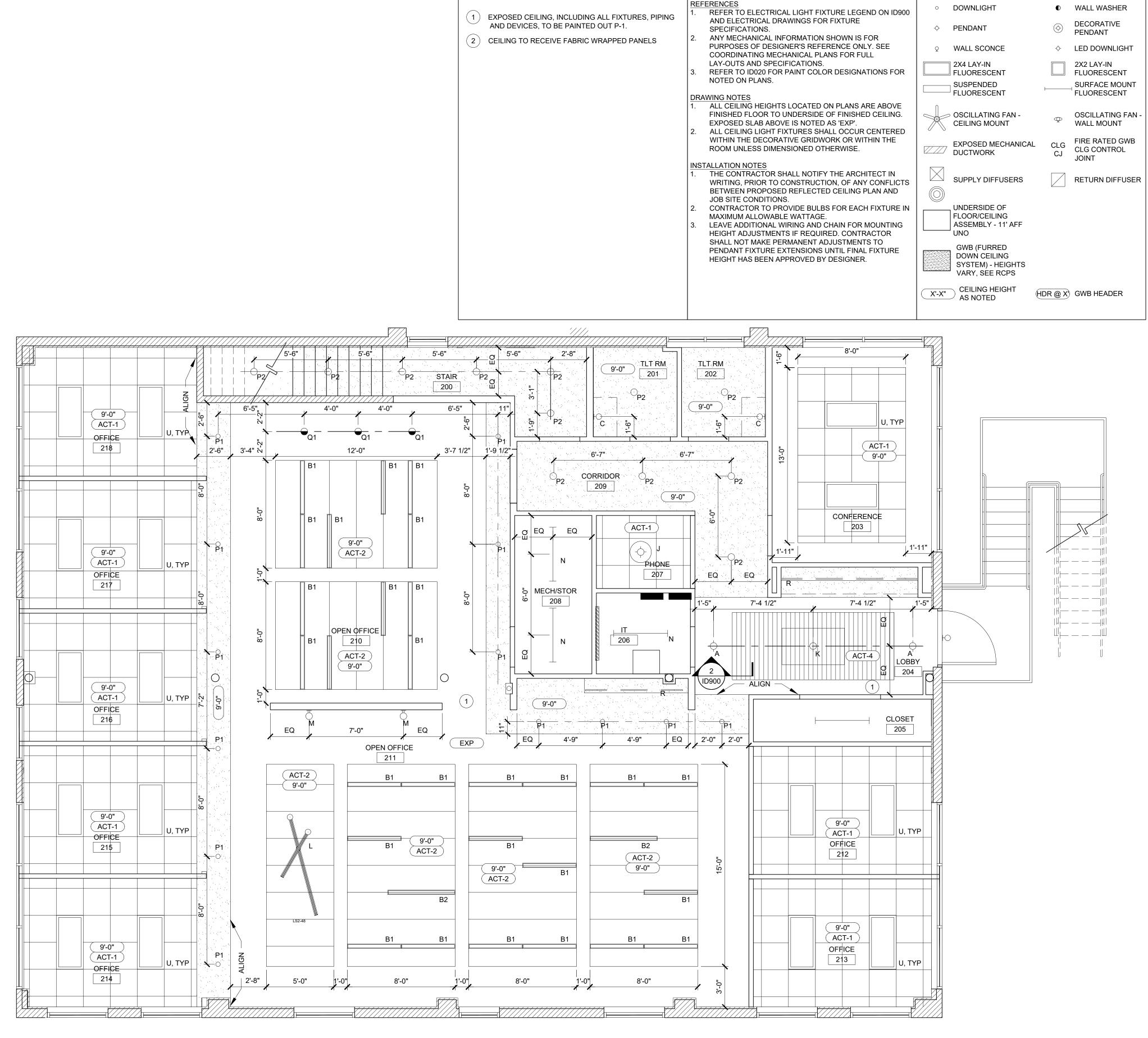
3" = 1'-0"

AND CEILING DETAILS

REFLECTED CEILING PLAN LEGEND RCP KEY NOTES REFLECTED CEILING PLAN NOTES REFERENCES DOWNLIGHT • WALL WASHER REFER TO ELECTRICAL LIGHT FIXTURE LEGEND ON ID900 interiors planning architecture 1520 Prudential Drive | Jacksonville, FL 32207 904.353.5900 [o] 904.353.5968 [f] RETURN DIFFUSER Email info@g4designinc.com | AA26001912 PLANS, DESIGN CONCEPTS, WRITTEN MATERIALS & DRAWINGS ARE NOT TO BE REPRODUCED, ALTERED, COPIED IN ANY FORM OR MANNER, NOR ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF GROUP 4 DESIGN, INC. DO NOT SCALE THE DRAWINGS. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT. SCALE NOTED IS FOR FULL "ANSI-D" SIZE PRINTS. CONTRACTOR SHALL CHECK & VERIFY ALL JOB SITE © 2022 Group 4 Design, Inc.

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REFLECTED CEILING PLAN



RCP KEY NOTES

REFLECTED CEILING PLAN NOTES

ent Sunt interiors planning architecture

REFLECTED CEILING PLAN LEGEND

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JACKSONVILLE, FL
Drawing Name:

SECOND FLOOR
REFLECTED CEILING PLAN

2000



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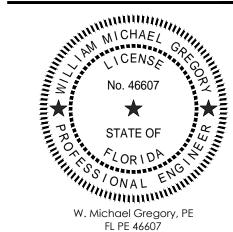
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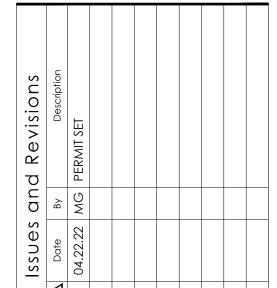
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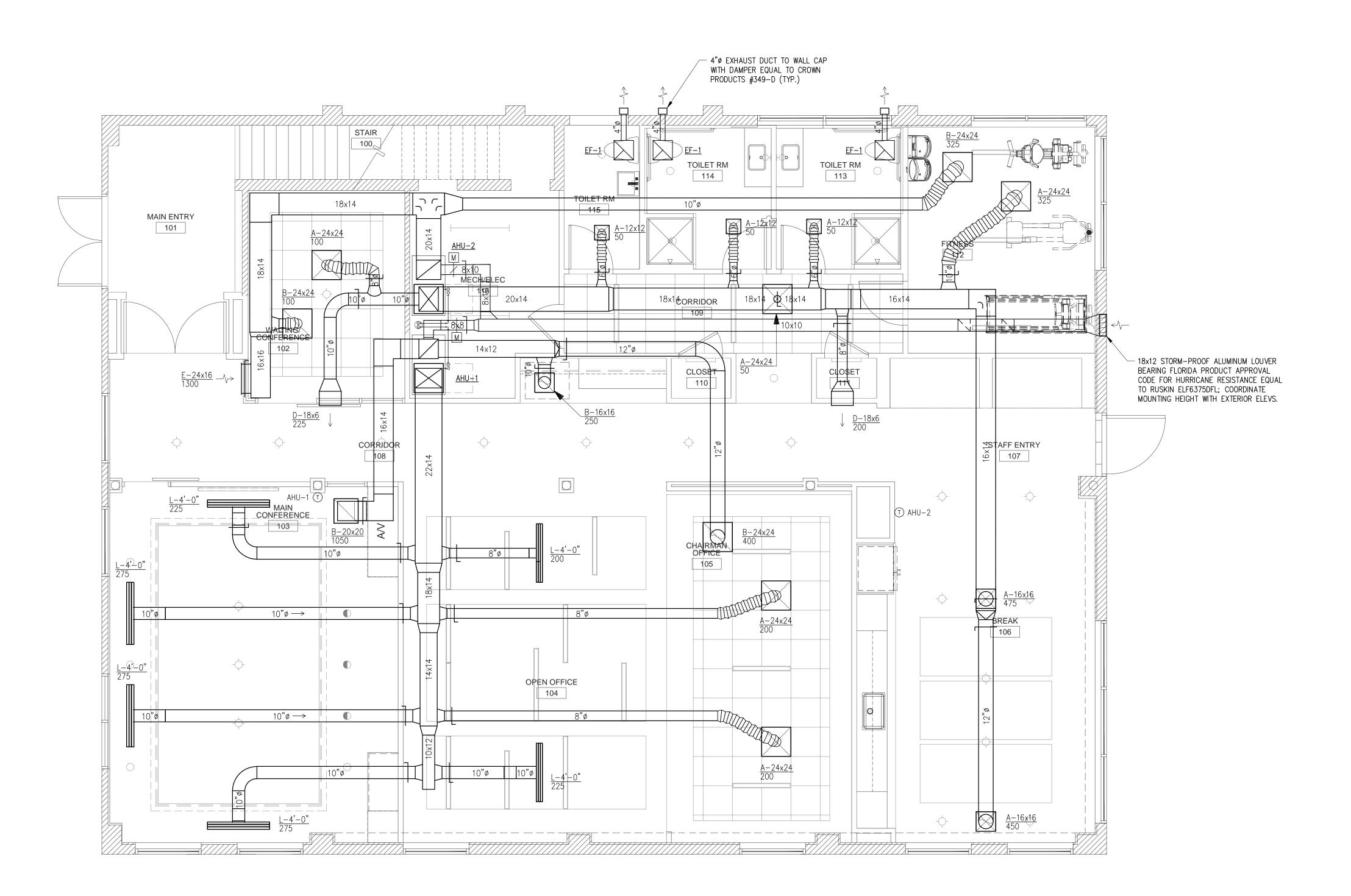
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OFFICE RENOVATION

JACKSONVILLE, FL

Drawing Name:

MECHANICAL PLAN
FIRST FLOOR

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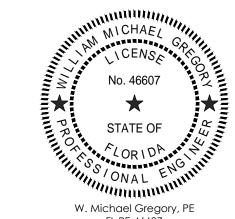
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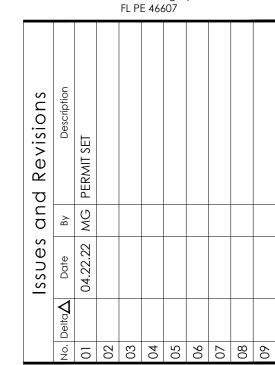
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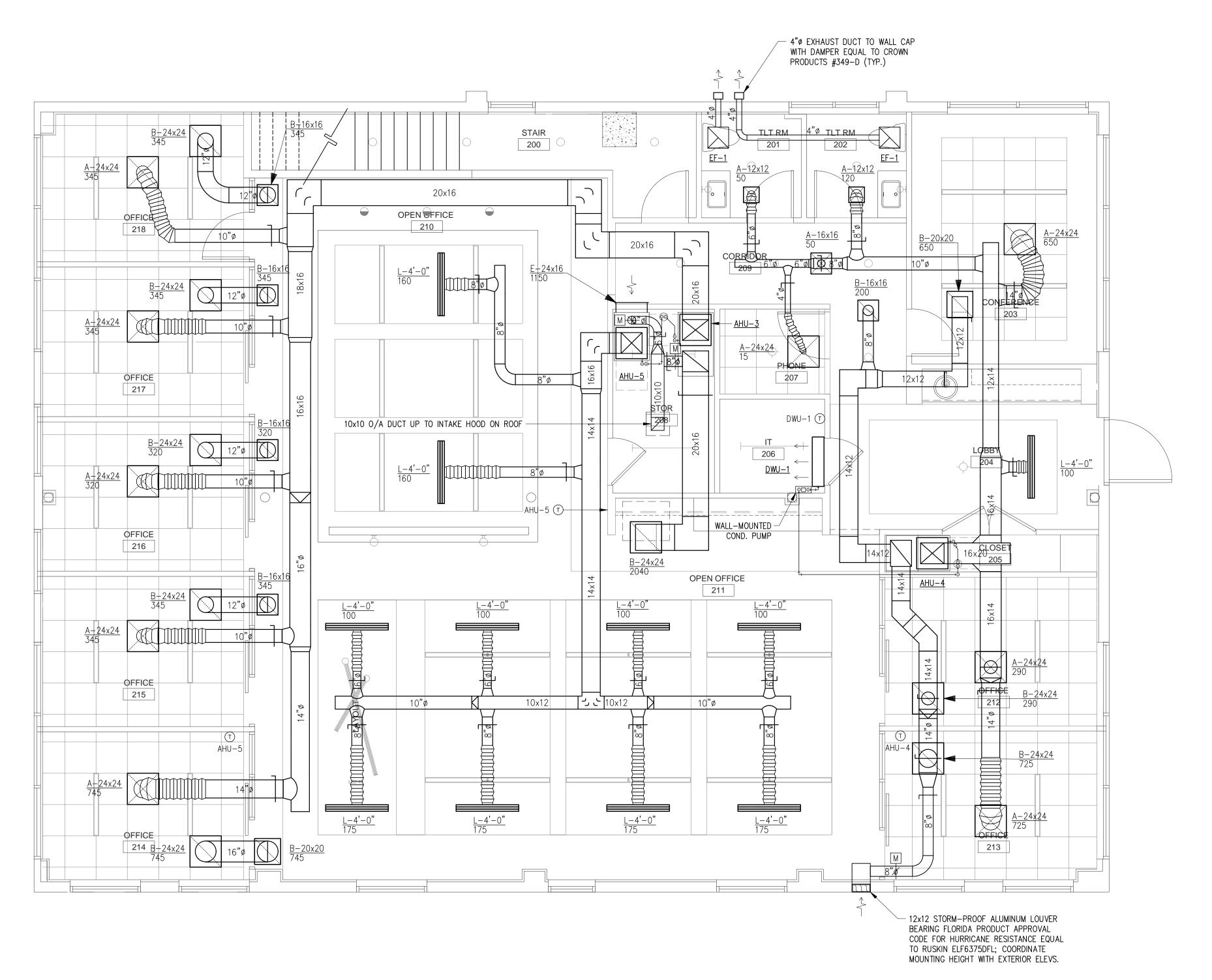
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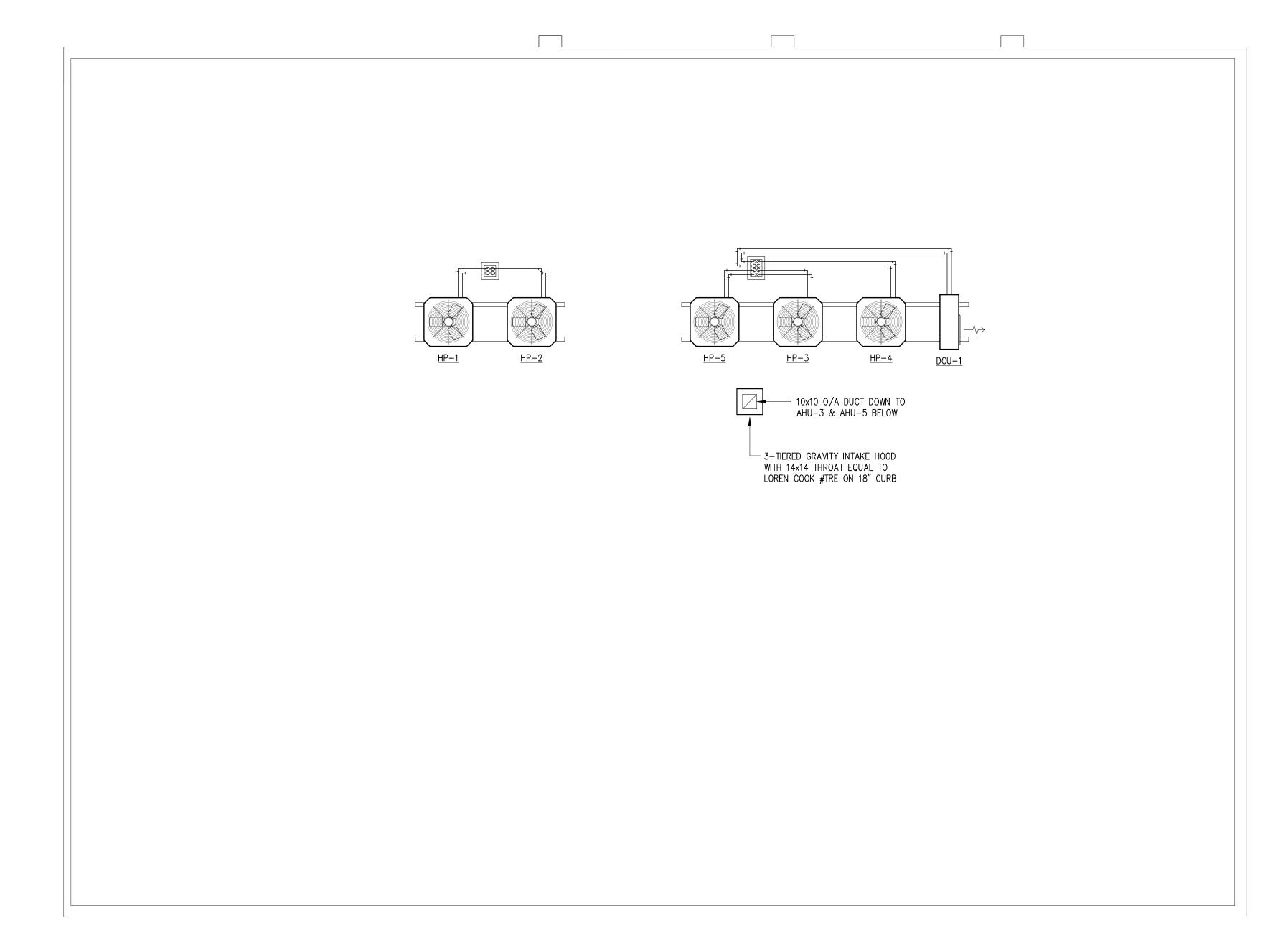
JACKSONVILLE, FL

Drawing Name:

MECHANICAL PLAN
SECOND FLOOR

W100









FBPE Certificate # 28163

interiors planning architecture

DESIGN

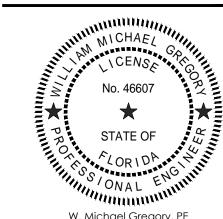
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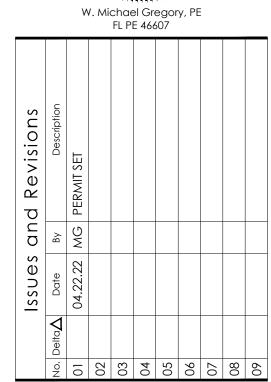
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OFFICE RENOVATION JACKSONVILLE, FL

Drawing Name:

MECHANICAL PLAN



Jacksonville, FL 32224 (904) 714-5188 FBPE Certificate # 28163

WIRE SUPPORTS TO

PREVENT SAGS AND

SBAND CLAMP AND

SCREWS THROUGH

HELIX OF FLEXIBLE 入 DUCT LINER

(TYPICAL)

THREE SHEET METAL

KINKS IN FLEX



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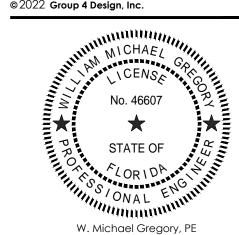
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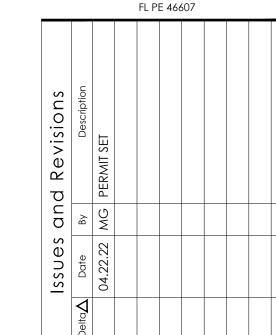
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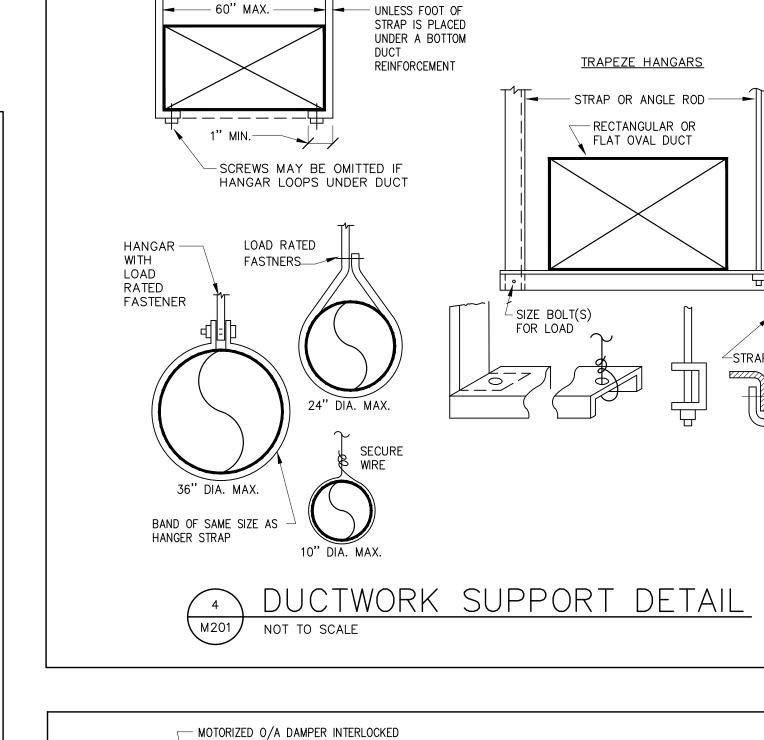
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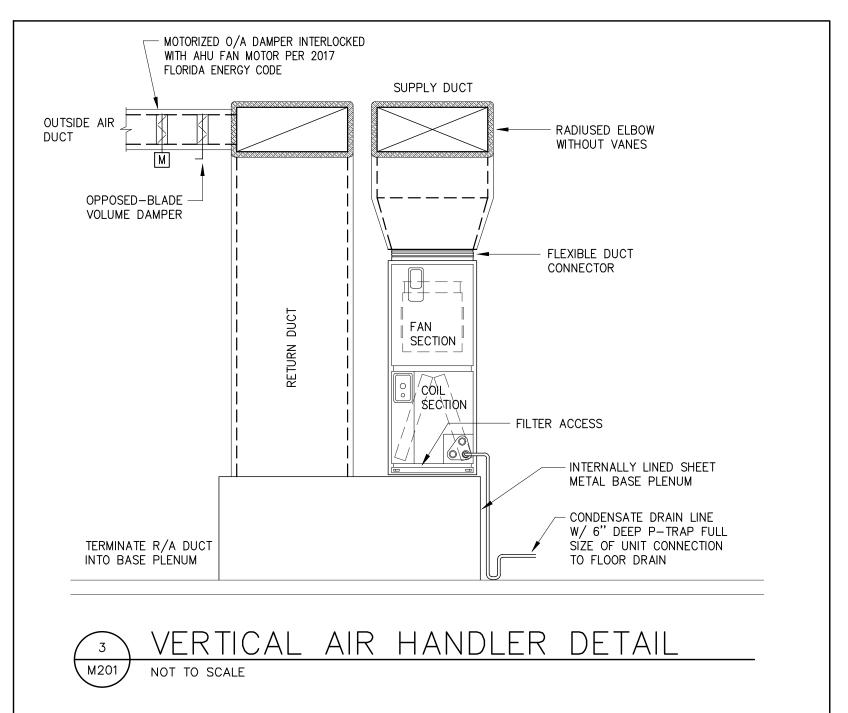
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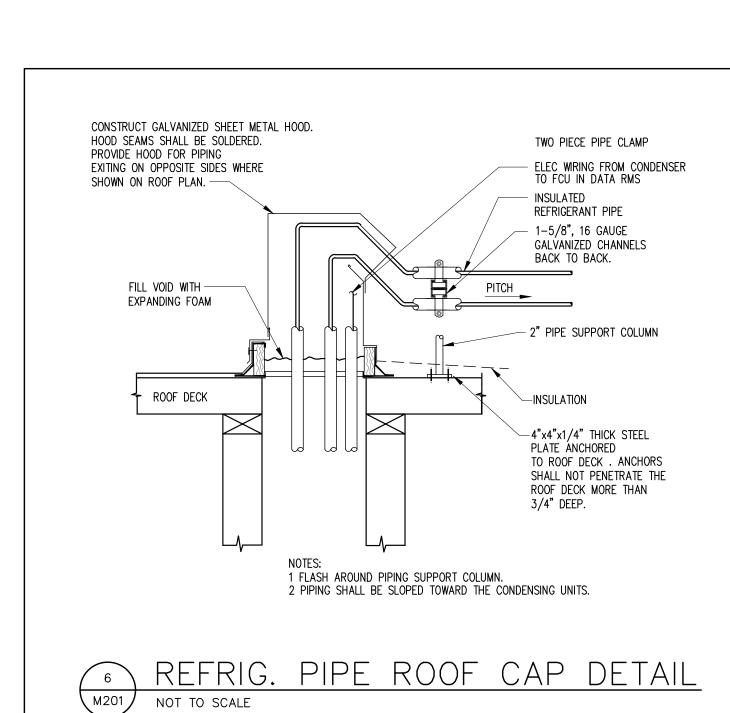
DETAILS

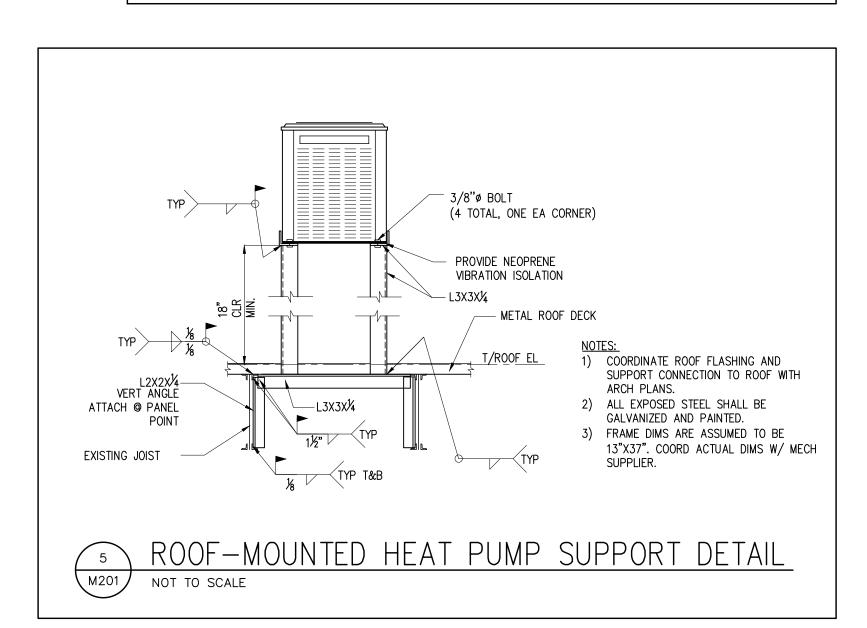


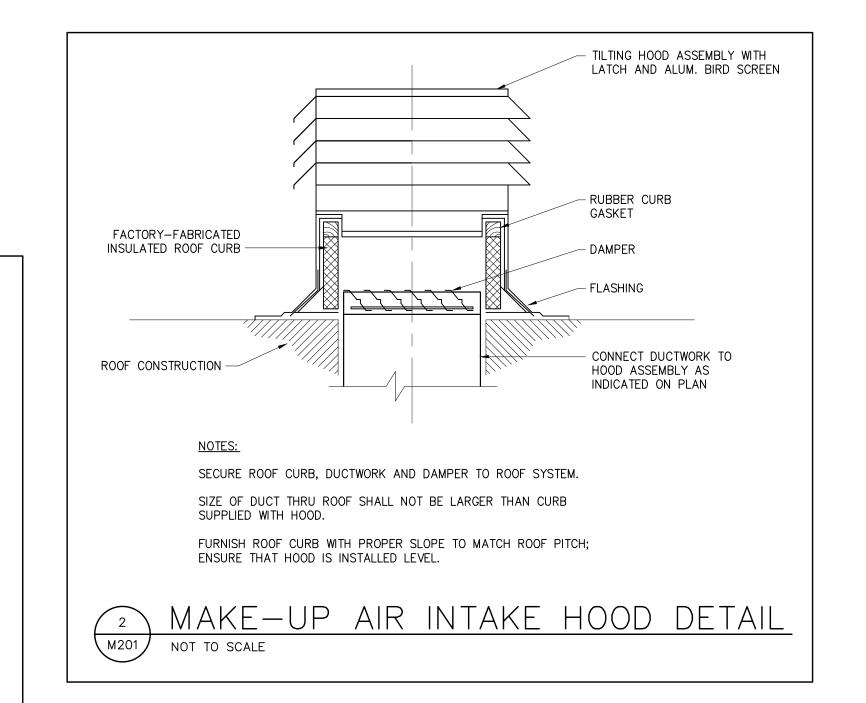
STRAP HANGARS

THANGER STRAPS

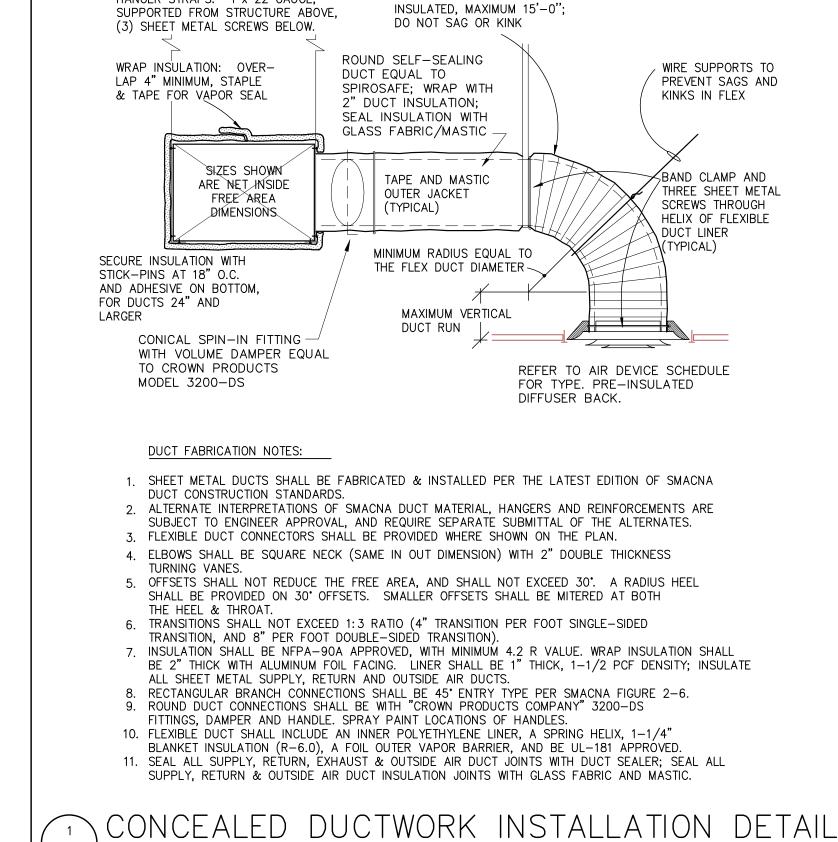








FLEXIBLE DUCT:



HANGER STRAPS: 1"x 22 GAUGE,

M201 / NOT TO SCALE



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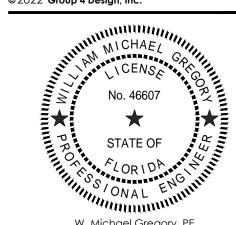
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				FL P	E 466	507				
Issues and Revisions	Description	04.22.22 MG PERMIT SET								
an	Ву	MG								
Issues	Date	04.22.22								
	Vo. Delta									
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Project Nu	mber: 22.0017.00
Drawn By:	
Checked E	Ву:
Project Na	me:
	1649 ATLANTIC
	OFFICE RENOVATION
	JACKSONVILLE, FL
Drawing N	ame:
	MECHANICAL
	SCHEDULES

Date: 19-Apr-22

DESIGNATION	EF-1
AN TYPE	CEILING CENTRIFUGAL
ORIVE TYPE	DIRECT
AIRFLOW (CFM)	70
EXT. STATIC (in. wg.)	1/4"
FAN SPEED (RPM)	925
NPUT (Watts)	52W
/OLTAGE/PHASE	120/1
ACCESSORIES	A,B,C
CONTROL TYPE	SEE NOTE 1.
MANUFACTURER	LOREN COOK
MODEL NO.	GC-142
NOTES: CONTROL TYPE: . MOTION SENSOR CONTROL N	WITH 15-MIN TIME DELAY RELAY.
ACCESSORIES:	
A. BACK DRAFT DAMPER.	
. DISCONNECT SWITCH.	

UNIT DESIGNATION	DWU/DCU-1
LOCATION	IT CLOSET 106
SYSTEM TYPE	COOLING ONLY
MANUFACTURER	MITSUBISHI
MODEL NUMBER (INDOOR / OUTDOOR)	PKA-A18HA7 / PUY-A18NKA7
INDOOR UNIT INSTALLATION	WALL-MOUNTED
REFRIGERANT	R-410A
SEER	18.5
TOTAL COOLING (BTU/H)	8000-18000
SENSIBLE HEAT FACTOR	0.70
MAXIMUM AIRFLOW (CFM - HI / WET)	380
INDOOR VOLTAGE/PHASE	208-230/1
INDOOR UNIT FAN FLA / MCA	0.33 / 1.0
OUTDOOR VOLTAGE/PHASE	208-230/1
OUTDOOR UNIT MCA / MOCP	11.0 / 28
NOTES:	1,2,3,4
NOTES:	
1. DISCONNECT SWITCHES FOR INDOOR AND OUTDO	OOR UNIT BY E/C; INDOOR
UNIT POWER IS FED FROM OUTDOOR UNIT.	

TY	PE	DESCRIPTION NECK FACE SIZE MANUF.				NOMINAL CFM RANGE		
			6"⊘	12x12		0-125		
		ALUMINUM, HIGH-CAPACITY	6"⊘	18x18		0-125		
SUPPLY	Α	CONCENTRIC-CONE CEILING	8"Ø	18x18	TITUS	126-225		
		DIFFUSER, MODEL TDC-AA	10"Ø	18x18		226-450		
			12"Ø	18x18		451-650		
		ALUMINUM, LINEAR DIFFUSER WITH	8"Ø	4'-0"		0-225		
	L		10"Ø	4'-0"	TITUS	0-400		
			12"Ø	4'-0"		0-600		
RETURN / OA			8x8	8x8	TITUS	0-200		
	В	ALUMINUM, EGGCRATE CEILING RETURN GRILLE, MODEL 50F	12x12	12x12		0-450		
			16x16	16x16		0-800		
			20x20	20x20		0-1250		
			24x24	24x24		0-1800		
			48x24	48x24		0-3600		
			8x8	8x8		0-150		
			12x12	12x12		0-375		
_		ALUMINUM, SINGLE-DEFLECTION	16x12	16x12		0-650		
	Е	CEILING RETURN GRILLE, MODEL	16x16	16x16	TITUS	0-800		
		350FL	24x16	24x16		0-1300		
			24x24	24x24		0-1500		
			48x24	48x24]	0-3000		

4. PROVIDE WALL-MOUNTED CONDENSATE PUMP ACCESSORY.

SYSTEM NUMBER MANUFACTURER NOMINAL TONS	AHU/HP-1				
Variables Council Brook Council Brooks		AHU/HP-2	AHU/HP-3	AHU/HP-4	AHU/HP-5
NOMINAL TONG	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
NOMINAL TONS	5	5	5	5	3.5
SYSTEM SEER / EER	14.0 / 8.2	14.0 / 8.2	14.0 / 8.2	14.0 / 8.2	14.0 / 8.2
INDOOR UNIT No.	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5
SUPPLY AIRFLOW (cfm)	1875	2000	2100	2000	1400
OUTSIDE AIRFLOW (cfm)	175	275	75	125	155
EXT. STATIC (in. w.g.)	0.6"	0.6"	0.6"	0.6"	0.6"
EVAP. FAN HP	3/4	3/4	3/4	3/4	1/2
ELEC. HEAT AT 230 V (Kw)	10	10	10	10	10
UNIT VOLTS/PHASE	230/1	230/1	230/1	230/1	230/1
ENT. AIR TEMP. DB/WB (DEG F)	75/63	75/63	75/63	75/63	75/63
NET TOTAL COOLING (BTU/H)	60000	60000	60000	60000	42000
NET TOTAL SENSIBLE COOLING (BTU/H)	42600	42600	42600	42600	30750
REVERSE CYCLE HEATING (BTU/H)	58000	58000	58000	58000	46000
MCA/MCOP	57.5 / 60	57.5 / 60	57.5 / 60	57.5 / 60	55.1 / 60
MODEL No.	FX4CNF060010	FX4CNF060010	FX4CNF060010	FX4CNF060010	FX4CNF042010
OUTDOOR UNIT No.	HP-1	HP-2	HP-3	HP-4	HP-5
AMBIENT TEMP. (DEG. F)	95	95	95	95	95
UNIT VOLTAGE/PHASE	208-230/1	208-230/1	208-230/1	208-230/1	208-230/1
MCA/MCOP	32.0 / 50	32.0 / 50	32.0 / 50	32.0 / 50	24.0 / 40
MODEL No.	25HCE460A0030	25HCE460A0030	25HCE460A0030	25HCE460A0030	25HCE442A0030
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A
	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10

SPLIT SYSTEM HEAT PUMP SCHEDULE

1. PROVIDE AHU WITH SINGLE POINT POWER CONNECTION; COORD. WITH ELEC. CONTRACTOR.	
2. PROVIDE INTEGRAL ELECTRICAL DISCONNECT SWTCH WITH EACH UNIT.	
3. ELECTRONIC 7-DAY PROGRAMMABLE THERMOSTAT	
4. TIME DELAY RELAY & TX VALVE	
5. FILTER RACK W/ 1" MERV-6 FILTERS	
8. FILTER DRIER	
7. COMPRESSOR START ASSIST	
8. HIGH & LOW PRESSURE SWITCHES	
9. CRANKCASE HEATER	
10. SIZE RERIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.	

ASHRAE 62.1 VENTILATION AND AIR BALANCE CALCULATION												
1649 ATLANTIC BLVD OFFICE RENOVATION												
ROOM / ZONE	AREA OR ROOM NO.	AREA (SF)	DEFAULT OCCUPANCY (QTY/1000 SF)	CALCULATED OCCUPANCY (PEOPLE)	Rp VENT. RATE (CFM / P)	Vbzp (CFM)	Ra VENT. RATE (CFM / SF)	Vbza (CFM)	VENTILATIION REQUIREMENT Vbz=Vbzp+Vbz a (CFM)		Vbz CORRECTED VENTILATION REQUIREMENT (CFM)	EXHAUST RA'
First Floor		3070	7	21	5	107	0.06	184	292	1	291	210
Second Floor		3151	7	22	5	110	0.06	189	299	1	299	140
				0		0			0	1		
TOTAL		6221		44		218		373	591		590	350

TOTAL VENTILATION AIR REQUIREMENT	590
TOTAL EXH. RATE PLUS 5%	368
FINAL VENT. REQUIREMENT (Greater of Above	590
TOTAL VENTILATION AIR PROVIDED	625

PART 1 - GENERAL

1.01 INSTRUCTIONS A. SCOPE OF WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH LOCAL AND STATE CODES, AND CONTRACT DRAWINGS AND SPECIFICATIONS.

CONTRACTOR SHALL VISIT THE SITE AND OBSERVE ALL EXISTING LOCAL CONDITIONS WHICH WOULD AFFECT WORK UNDER THIS CONTRACT. CONTRACTOR SHALL EXAMINE ALL PLANS AND SPECIFICATIONS FOR THIS PROJECT AND CONSULT THEM FOR INSTRUCTIONS PERTAINING TO WORK OF THIS SECTION.

1.03 PERMITS AND FEES A. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR PERTAINING TO WORK UNDER THIS CONTRACT AND PAY LL CHARGES INCIDENTAL THERETO. DELIVER TO ARCHITECT ALL CERTIFICATES OF INSPECTION ISSUED BY AUTHORITIES HAVING

1.04 CODES AND STANDARDS FURNISH AND INSTALL MECHANICAL SYSTEMS TO MEET ALL CURRENT REQUIREMENTS OF NATIONAL, STATE AND MUNICIPAL CODES, RULES REGULATIONS, LAWS, AND STANDARDS AS THEY ARE ADOPTED BY THE GOVERNING AGENCY AND AS THEY MAY APPLY 2020 FLORIDA BUILDING CODE, 7th EDITION; 2020 FLORIDA BUILDING CODE, MECHANICAL, 7th EDITION; 2020 FLORIDA BUILDING CODE, PLUMBING, 7th EDITION: 2020 FLORIDA BUILDING CODE, ENERGY CONSERVATION, 7th EDITION; 2020 FLORIDA FIRE PREVENTION, 7th EDITION; 5. STANDARD FOR THE INSTALLATION OF A/C AND VENT SYSTEMS, NFPA

90A (1999 ED.) UNDERWRITERS LABORATORIES

MATERIAL LIST: WITHIN TWENTY (20) DAYS OF AWARD OF CONTRACT,

CONTRACTOR SHALL SUBMIT TO ARCHITECT A COMPLETE LIST OF MATERIALS TO BE PROVIDED FOR THE HVAC WORK. THE LIST SHALL INCLUDE SUPPLIERS' NAMES AND MANUFACTURERS' NAMES AND NUMBER R SERIES FOR EACH ITEM ON LIST. SHOP DRAWINGS: SUBMIT TO THE ARCHITECT FOR APPROVAL, BEFORE COMMENCING WORK, SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT. THE FOLLOWING APPLIES TO

CONTRACTOR SHALL SUBMIT WITHIN 30-DAYS AFTER AWARD OF CONTRACT, DRAWINGS AND/OR CUT SHEETS OF ALL MATERIALS AND EQUIPMENT, AND 1/4" SCALE EQUIPMENT ROOM DRAWINGS FOR APPROVAL BY ARCHITECT-ENGINEER. SUCH SUBMITTALS MUST CONTAIN OUTLINE DIMENSIONS, OPERATING CLEARANCES, INSTALLATION, OPERATING AND MAINTENANCE INFORMATION AND SUFFICIENT ENGINEERING DATA TO INDICATE SUBSTANTIAL COMPLIANCE WITH SPECIFICATIONS. ALL SHOP DRAWINGS FOR ONE SECTION OF WORK OR ONE MECHANICAL SYSTEM SHALL BE SUBMITTED AT ONE TIME IN

LOOSE-LEAF 3-RING BINDERS; NO APPROVAL WILL BE GIVEN IF SUBMITTED PIECEMEAL. 2. WHERE CONTRACTOR CONSIDERS ADDITIONAL DETAIL OR SHOP DRAWINGS ESSENTIAL TO PROPER FABRICATION OR INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING HE SHALL PREPARE SUCH CONSISTENT WITH CURRENT INDUSTRY METHODS AND STANDARDS. ENGINEER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ANY ITEMS WHICH, IN HIS OPINION, DO NOT PRESENT AN ORDERLY AND REASONABLY NEAT AND WORKMANLIKE APPEARANCE, PROVIDED SUCH AN ORDERLY INSTALLATION CAN BE MADE USING CUSTOMARY TRADE METHODS. REMOVAL AND REPLACEMENT SHALL BE DONE WHEN DIRECTED IN WRITING BY ENGINEER AT THE CONTRACTOR'S EXPENSE AND WITHOUT ADDITIONAL EXPENSE TO

APPROVAL GRANTED ON SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE CONSIDERED AS GUARANTEE OF MEASUREMENTS OF BUILDING CONDITIONS: NOR SHALL IT BE CONSTRUED AS RELIEVING THE MECHANICAL

CONTRACTOR OF BASIC RESPONSIBILITIES UNDER THIS CONTRACT. 4. CHANGES IN FOUNDATIONS, BASES, CONNECTIONS, PIPING, CONTROLS, STARTERS, ELECTRICAL EQUIPMENT. WIRING AND CONDUIT. SPACE OPENINGS. WALLS AND CEILINGS, AND VIBRATION ISOLATION IN ORDER TO ACCOMMODATE SUBSTITUTE EQUIPMENT SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND RECEIVE ENGINEER'S

APPROVAL BEFORE INSTALLING MATERIALS OR EQUIPMENT. ANY EQUIPMENT OF

MATERIALS INSTALLED PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS FROM ENGINEER SHALL BE SUBJECT TO REMOVAL AND / OR ALTERATION AT THE DISCRETION OF THE MECHANICAL ENGINEER AT NO ADDITIONAL COS 6. APPROVAL OF ANY SUBMITTED DATA OR SHOP DRAWINGS FOR MATERIALS, EQUIPMENT, APPARATUS DEVICES, ARRANGEMENTS AND/OR LAYOUTS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY OF FÜRNISHING SAME OF PROPER DIMENSIONS, CAPACITIES, SIZES, QUANTITIES AND INSTALLATION DETAILS TO EFFICIENTLY PERFORM REQUIREMENTS AND INTENT OF CONTRACT.

APPROVAL SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OF ANY SORT C. ANY ELECTRICAL DEVIATIONS BETWEEN THE CONTRACT DOCUMENTS AND THE FURNISHED EQUIPMENT MUST BE SEPARATELY ACKNOWLEDGED BY A SUBSTITUTION

REQUEST AND ADDITIONALLY NOTED ON THE SUBMITTAL. PROVIDE MECHANICAL SHOP DRAWINGS FOR: AIR HANDLING UNITS, CONDENSING UNITS VENTILATORS, AIR INLETS AND OUTLETS, DUCT ACCESSORIES, DUCT INSULATION, TEMPERATURE CONTROLS, DUCT MATERIALS, REFRIGERAN PIPING, CONDENSATE PIPING.

1.06 CONNECTING TO WORK OF OTHERS BEFORE STARTING HIS WORK, AND FROM TIME TO TIME AS WORK PROGRESSES. MECHANICAL CONTRACTOR SHALL EXAMINE WORK AND MATERIALS INSTALLED BY OTHERS INSOFAR AS THEY APPLY TO HIS WORK AND SHALL NOTIFY ENGINEER

MMEDIATELY IN WRITING IF CONDITIONS EXIST WHICH WILL. SHOULD CONTRACTOR START HIS WORK WITHOUT SUCH NOTIFICATION, IT SHALL B CONSTRUED AS AN ACCEPTANCE BY HIM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OR WORK OF OTHERS TO RECEIVE HIS WORK. HE SHALL REMOVE AND REPLACE, AT HIS OWN EXPENSE, ALL WORK UNDER THIS CONTRACT WHICH MAY

HAVE TO BE REMOVED ON ACCOUNT OF SUCH DEFECTS. A. IT IS THE INTENT OF DRAWINGS AND SPECIFICATIONS TO OBTAIN A COMPLETE AND FULLY OPERATIONAL, AND SATISFACTORY INSTALLATION. AN ATTEMPT HAS BEEN MADE TO SEPARATE AND COMPLETELY DEFINE WORK UNDER THIS CONTRACT. HOWEVER, SUCH SEPARATE DIVISIONAL DRAWINGS AND SPECIFICATIONS SHALL NOT RELIEVE CONTRACTOR

INDICATED ON ANY DRAWING OR IN ANY SECTION OF THE SPECIFICATIONS. CONTRACTOR SHALL CAREFULLY EXAMINE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS PRIOR TO SUBMITTING BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND CONNECT WITH APPROPRIATE SERVICES ALL ITEMS SHOWN ON ANY DRAWINGS WITHOUT ADDITIONAL EXPENSE TO OWNER. ARCHITECT SHALL E NOTIFIED PRIOR TO BID DATE OF ANY DISCREPANCIES, OMISSIONS, CONFLICTS OR INTERFERENCES WHICH OCCUR BETWEEN DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS. IF SUCH NOTIFICATION IS RECEIVED IN ADEQUATE TIME, ADDITIONA ATA OR CHANGES WILL BE ISSUED BY ADDENDUM TO ALL BIDDERS. SUBMITTAL OF BID BY CONTRACTOR SHALL INDICATE THE CONTRACTOR'S ACKNOWLEDGEMENT AND ACCEPTANCE TO PROVIDE ALL NECESSARY EQUIPMENT, MATERIALS AND LABOR TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IN ACCORDANCE WITH ALL CODE

FROM FULL RESPONSIBILITY OF COMPLIANCE WITH WORK OF HIS TRADE WHICH MAY BE

ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MECHANICAL DRAWINGS WITH REFERENCE TO BUILDING CONSTRUCTION. MECHANICAL DRAWINGS ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION OF BUILDING AND WORK OF OTHER TRADES WILL PERMIT. WHERE LOCATIONS OF EQUIPMENT, DEVICES OR FIXTURES ARE CONTROLLED BY ARCHITECTURAL FEATURES. ESTABLISH SUCH LOCATIONS BY REFERRING TO DIMENSIONS ON ARCHITECTURAL DRAWINGS AND NOT BY SCALING DRAWINGS. CHANGES FROM DRAWINGS NECESSARY TO MAKE WORK OF CONTRACTOR CONFORM WITH BUILDING AS CONSTRUCTED AND TO FIT WORK OF OTHER TRADES OR RULES OF BODIES HAVING JURISDICTION SHALL BE MADE BY CONTRACTOR AT HIS OWN SOME DRAWINGS MAY HAVE BEEN PREPARED FROM EXISTING DRAWINGS WITH NTENT OF PROVIDING THE CONTRACTOR WITH INFORMATION CONCERNING THE EXISTING CONDITIONS. DATA SHOWN HAS NOT BEEN COMPLETELY VERIFIED BY ARCHITECT/ FNGINFER AND NO GUARANTEE OF ACCURACY OF THIS INFORMATION IS GIVEN OR INTENDED. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. DATA WHICH IS SHOWN BUT PROVES TO BE INCORRECT SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM INSTALLING HIS WORK WITHIN THE INTENT OF PLANS AND SPECIFICATIONS. NOR SHALL IT CONSTITUTE BASIS FOR A CHANGE ORDER UNLESS. IN THE OPINION OF THE ARCHITECT/ENGINEER IT IS DETERMINED TO BE AN XTRA COST OVER AND ABOVE THE BASIC INTENT OF THESE PLANS AND SPECIFICATIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PROTECTIVE MEASURES WHEN WORKING OVERHEAD OR IN FINISHED AREAS. HE/SHE SHALL REPAIR, REPLACE OR TOUCH-UP ALL FINISHED SURFACES WHICH MAY BE DAMAGED AS A RESULT OF HIS

1.08 DAMAGE TO OTHER WORK

1.09 STORAGE AND WORK AREAS ALL EQUIPMENT AND MATERIALS SHALL BE PROTECTED FROM THE WEATHER, DAMAGE. MOISTURE, DIRT, DEBRIS, ETC. USE OF CARDBOARD, VISQUEEN, OR OTHER SIMILAR MATERIALS WHILE STORED OUTSIDE IS NOT ACCEPTABLE. DO NOT INSTALL DAMAGED

EQUIPMENT OTHER THAN SPECIFIED IN THE CONTRACT DOCUMENTS REQUIRES APPROVAL FROM ENGINEER 10 DAYS PRIOR TO BID DATE. B. WRITTEN REQUEST FOR PRIOR APPROVAL MUST BE RECEIVED IN ENGINEER': OFFICE BY CLOSE OF BUSINESS NO LATER THAN 10 DAYS PRIOR TO SCHEDULED BID DATE. REQUEST SHALL CONTAIN DETAILED INFORMATION ON THE PROPOSED ITEM. THIS SHALL INCLUDE: CATALOG CUTS SHEETS

DESCRIPTION OF DEVIATION FROM SPECIFIED ITEM.
AN ADDENDA SHALL BE ISSUED LISTING ALL PROSPECTIVE CONTRACTORS LISTING ALL PRIOR APPROVED MANUFACTURERS AND PRODUCTS.

2.01 SPLIT SYSTEM HEAT PUMPS A. GENERAL: FURNISH AND INSTALL SPLIT SYSTEM HEAT PUMPS OF THE CAPACITY, OPERATING CHARACTERISTICS, AND ELECTRICAL CHARACTERISTICS INDICATED ON

THE DRAWINGS AND SPECIFIED HEREIN. MANUFACTURER: TRANE, CARRIER, YORK OR LENNOX MAY BE SUBMITTED FOR APPROVAL PROVIDED THEY CONFORM TO ALL REQUIREMENTS OF THESE SPECIFICATIONS. WARRANTY: CONTRACTOR SHALL INCLUDE IN HIS PRICE THE COST OF ONE YEAR'S WARRANTY ON ENTIRE SYSTEM PLUS AN ADDITIONAL FOUR YEARS WARRANTY ON

COMPRESSOR. THE CONTRACTOR SHALL WARRANT EACH SYSTEM IN ITS ENTIRETY FOR

ONE (1) FULL YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. CONTRACTOR

SHALL ALSO PROVIDE AN ADDITIONAL FOUR-YEAR WARRANTY ON EACH COMPRESSOR TO INCLUDE PARTS, REFRIGERANT AND OIL, EXCLUSIVE OF LABOR. INDOOR UNITS: FAN SECTION: SHALL BE INSULATED AND CONSTRUCTED OF GALVANIZED STEEL BONDERIZED AND FINISHED WITH BAKED ENAMEL. THE VARIABLE-SPEED FAN MOTOR SHALL BE FACTORY LUBRICATED, HAVE INTERNAL OVERLOAD PROTECTION AND BE RESILIENTLY MOUNTED. FAN-MOTOR ASSEMBLY SHALL SLIDE OUT FOR SERVICE

REVERSIBLE FILTER RACK SHALL BE EQUIPPED WITH PERMANENT TYPE FILTER THAT SLIDES OUT FOR SERVICE. 2. COOLING COIL: SHALL BE CONSTRUCTED WITH ALUMINUM PLATE FINS MECHANICALLY BONDED TO NONFERROUS TUBING (FOR UNITS 5 TONS AND SMALLER) OR SEAMLESS COPPER TUBING (FOR UNITS LARGER THAN 5 TONS) WITH ALL JOINTS BRAZED. COILS SHALL HAVE A FACTORY—INSTALLED REFRIGERANT METERING DEVICE AND BE FOUIPPED WITH REFRIGERANT LINE FITTINGS WHICH PERMIT MECHANICAL CONNECTIONS. COIL CASING SHALL BE INSULATED AND CONSTRUCTED OF VANIZED STEEL, BONDERIZED AND FINISHED WITH BAKED ENAMEL.

ELECTRIC HEATER: ENCLOSURE SHALL BE INSULATED AND HAVE LARGE FRONT SERVICE ACCESS DOOR. HEATING FLEMENTS SHALL BE STAGED AS INDICATED IN HE EQUIPMENT SCHEDULE ON THE MECHANICAL PLANS. HEATER SHALL BE EQUIPPED WITH BOTH THERMAL AND CURRENT OVERLOAD DEVICES, AND T REQUIRED HEATING AND COOLING SYSTEM CONTROLS, INCLUDING CONTROL CIRCUIT 24-V TRANSFORMER.

OUTDOOR UNIT: GENERAL: HOUSING SHALL BE CONSTRUCTED OF GALVANIZED STEEL, BONDERIZED AND FINISHED WITH BAKED ENAMEL. THE UNIT SHALL BE DESIGNED AND TESTED FOR USE WITH R-410A AND CONTAIN A SUFFICIENT CHARGE FOR THE ENTIRE SYSTEM. BRASS SERVICE VALVES WITH REFRIGERANT LINE FITTINGS AND SERVICE PARTS SHALL BE LOCATED IN EXTERIOR OF UNIT. COIL: SHALL CONSIST OF ALUMINUM FINS MECHANICALLY BONDED TO COPPER TUBING

(FOR UNITS LARGER THAN 5 TONS) OR ALUMINUM TUBING (FOR UNITS 5 TONS AND SMALLER) WITH ALL JOINTS BRAZED. FACTORY INSTALLED COIL REFRIGERANT METERING DEVICE SHALL BE MOUNTED ON UNIT LIQUID SERVICE VALVE. LIQUID LINE SHALL INCLUDE A BI-FLOW FILTER DRIER. 3. FAN: SHALL BE PROPELLER TYPE, DIRECT DRIVEN, AND ARRANGED FOR VERTICAL DISCHARGE. PROVIDE GRILLE OVER DISCHARGE. FAN MOTOR SHALL BE FACTORY LUBRICATED, INHERENTI Y PROTECTED AND RESILIENTI Y MOUNTED. TWO—SPEED

FAN MOTOR SHALL AUTOMATICALLY SWITCH TO HIGH SPEED ABOVE 95 DEGREES F AND BELOW 55 DEGREES F OUTDOOR TEMPERATURE. 4. COMPRESSOR: SHALL BE OF THE WELDED-HERMETIC TYPE WITH INTERNAL VIBRATION ISOLATION AND BE COVERED WITH A SHIELD TO MUFFLE OPERATING SOUND. COMPRESSOR MOTOR SHALL HAVE BOTH THERMAL AND CURRENT SENSITIVE OVERLOAD

DEVICE, AND START CAPACITOR AND RELAY. COMPRESSOR SHALL BE EQUIPPED WITH A CRANKCASE HEATER AND HAVE INTERNAL HIGH PRESSURE PROTECTION. 5. CONTROLS: SHALL BE FACTORY WIRED AND LOCATED IN A READILY ACCESSIBLE LOCATION ON UNIT SWING-OUT SERVICE DOOR. CONTROLS AND PROTECTIVE DEVICE SHALL INCLUDE A LIQUID LINE LOW-PRESSURE SWITCH, SUCTION LINE ACCUMULATOR AND PRESSURE RELIEF DEVICE. AN AUTOMATIC DEFROST CONTROL SHALL BE INCLUDED TO ACCOMPLISH DEFROSTING (ONLY IF COIL TEMPERATURES) EVERY 90 MINUTES SATURATED SUCTION TEMPERATURE INDICATES FREEZING FOR A PERIOD OF NOT MORE THAN 10 MINUTES. CONTROL WIRING TERMINAL BOARD SHALL BE DESIGNED TO MATCH INDOOR UNIT TERMINAL BOARD FOR STANDARDIZED POINT-TO POINT CONNECTION. A TIME-DELAY RELAY SHALL PREVENT THE COMPRESSOR FROM SHORT-CYCLING AT LESS THAN 5-MINUTE INTERVALS.

SPACE TEMPERATURE CONTROLS: THE INDOOR THERMOSTAT SHALL BE A FULLY-PROGRAMMABLE, 7-DAY, 4-EVENT PER DAY WITH BATTERY BACK-UP.

2.02 AIR DISTRIBUTION SYSTEMS

LOW PRESSURE SHEET METAL DUCTWORK: LOW PRESSURE SHEET METAL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL CONSTRUCTION OF JOINT CONNECTIONS, CROSS-BREAKING, AND BRACING SHALL CONFORM TO THE LATEST EDITION OF THE SMACNA "LOW PRESSURE DUCT CONSTRUCTION STANDARDS". NO FIBERGLASS DUCTBOARD IS ALLOWED.

SHEET METAL MATERIALS SHALL BE GALVANIZED SHEET STELL, LOCKFORMING QUALITY, ASTM A 527, AND COATING DESIGNATION G 90. JOINT AN SEAM SEALANT SHALL BE ONE-PART, NONSAG, SOVENT-RELEASE CURING, POLYMERIZED BUTYL SEALANT COMPLYING WITH FS TT-S-001657

YPE I: FORMULATED WITH A MINIMUM OF 75 PERCENT SOLID DUCTS ATTACHMENTS SHALL BE SHEET METAL SCREWS, BLIND RIVETS, OR SELF TAPPING METAL SCREWS; COMPATIBLE WITH DUCT MATERIALS. d. DUCT FABRICATION: CONSTRUCT IN ACCORDANCE WITH SMACNA REQUIREMENTS.

SOUND LINING SHALL BE ARMACELL FIBER FREE LINER MIN. 1.5 LB. DENSISTY, 1" THICKNESS, MAX 0.25 K FACTOR AT 75 DEGREES F. MEAN TEMPERATURE AND

MUST HAVE A MAXIMUM WATER VAPOR TRANSIMISSION RATIO OF 0.0 PERM-IN (FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 50.) APPLYING LINING WITH ADHESIVE OVER ENTIRE SURFACE AND SECURE WITH WELD PINS SPACED 16" ON CENTERS. COAST EDGES WITH SEALER AND PROVIDES SHEET METAL EDGE PROTECTORS. SEALER SHALL BE IN COMFORMANCE WITH NFPA 90A

AND NFPA 90B. PROVIDE 2" SOUND LINING FOR MIXED AIR AND RELIEF AIR PLENUMS AND SUPPLY AIR PLENUMS AT SLOT DIFFUSER. DIMENSIONS SHOWN ARE CLEAR INSIDED DIMENSIONS.

LOW PRESSURE FLEXIBLE DUCTS: FLEXIBLE DUCT SHALL CONSIST OF A ZINC COATED SPRING STEEL HELIX PERMANENTLY BONDED TO A FULL INTERIOR LINER TO FORM THE DUCT CORE WITH POSITIVE INTERIOR AIR SEAL. CORE SHALL BE COVERED WITH FACTORY APPLIED ONE INCH ONE POLIND PER CURIC FOOT FIRERGLASS INSULATION OF 0.25 THERMAL CONDUCTANCE SHEATHED IN A SEAMLESS EXTERIOR CLASS 1 VAPOR BARRIER JACKET WITH A VAPOR CUFF ON BOTH ENDS. DUCT SHALL BE MADE FOR USE WITH QUADRAN' DAMPERED TWIST IN TYPE FITTINGS WITH EXTRACTOR SCOOPS SUITABLE FOR SHEET METAL OR FIBROUS GLASS DUCTWORK. DUCT SHALL BE NFPA 90A, CLASS 1 (UL-181). PROVIDE N FACTORY FINISHED LENGTHS NOT IN EXCESS OF LENGTHS REQUIRED TO MAKE SUITABLE CONNECTIONS WITH MINIMUM PRESSURE DROP. ACCEPTABLE: GENFLEX TYPE SLR WITH STAINLESS STEEL HOSE COUPLINGS AND WITH FACTORY INSTALLED CROWN 3200-DS SPIN IN FITTING (FOR GLASS FIBER DUCTWORK), EACH TYPE WITH INTEGRAL VOLUME DAMPER AT CONNECTION TO RECTANGULAR MAIN DUCT BRANCH OR EQUIVALENT PRODUCTS OF ATCO.

GENERAL: PROVIDE ALL NECESSARY DUCT SYSTEM ACCESSORIES TO ASSURE PROPER BALANCE, QUIET AND DRAFTLESS DISTRIBUTION AND CONVEYANCE, AND MINIMIZATION OF TURBULENCE, NOISE AND PRESSURE DROP FOR ALL SUPPLY, RETURN, EXHAUST AND VENTILATION AIR QUANTITIES INDICATED. ACCESSORIES SHALL BE RECOMMENDED

BY THEIR MANUFACTURER FOR EACH SPECIFIC APPLICATION. FLEXIBLE DUCT CONNECTIONS: PROVIDE WHERE AIR HANDLERS, FANS AND BLOWERS CONNECT TO THEIR DUCTWORK. SHALL BE AT LEAST 4—INCHES LONG CONNECTED ON EACH SIDE TO METAL (EITHER METAL DUCTWORK, AIR HANDLING APPARATUS, OR HEAVY GAUGE STEEL SLEEVES), AND BE SUITABLE FOR USE IN MEDIUM AND/OR LOW PRESSURE DUCT SYSTÉMS. PROVIDE BRAIDED COPPER BRIDGE STRAP EQUAL TO THOMPSON LIGHTNING PROTECTION, INC. NO. 588 ACROSS EACH CONNECTION. ACCEPTABLE: VENTFABRICS, INC. "VENTGLAS METAL - EDGE" OR PRIOR APPROVED

LOW PRESSURE METAL TURNING VANES: PROVIDE IN ALL ELBOWS, BENDS AND TEES OF ALL LOW VELOCITY SUPPLY AIR DUCTS WHETHER OR NOT SHOWN IN DETAIL; PROVIDE IN ALL ELBOWS, BENDS AND TEES OF ALL OTHER LOW VELOCITY DUCTS WHERE PORTIONS OF SUCH DUCTS CONVEYAIR AT GREATER THAN 700 FPM AVERAGE VELOCITY. UNI O BE OF THE PERMANENT FIXED TYPE, HAVING ADEQUATE RIGIDITY AND STRENGTH TO BE COMPLETELY FLUTTER-PROOF. ALUMINUM. OR STEEL WITH CORROSION RESISTANT COATING, OR GALVANIZED STEEL. AIRFOIL TYPE IN ALL MITERED ELBOWS, MITERED BENDS AND MITERED TEES. AIR FOIL TYPE MUST BE MANUFACTURED BY TUTTLE & BAILEY, ANEMOSTAT, METALAIRE, BARBER-COLMAN OR OTHER APPROVED MANUFACTURER AND MUST BE EQUAL TO BARBER-COLMAN "AIRTURNS". TUTTLE &

BAILEY "DUCTURNS", OR DURA-DYNE "VR" WITH 24-GAUGE RAILS AND HOLLOW VANES. MANUAL VOLUME DAMPERS (OTHER THAN THOSE SPECIFIED AS BEING INTEGRAL WITH FACH REGISTER, DIFFUSER AND OTHER AIR OUTLET OR INLET): PROVIDED IN THE COMPLETE AIR DISTRIBUTION SYSTEM(S) (INCLUDING DUCTWORK, RETURN AIR PLENUMS ETC.) TO ALLOW COMPLETE BALANCING OF THE AIR SUPPLY, RETURN, VENTILATION AND EXHAUST SYSTEM(S). DAMPERS SHALL BE OPPOSED BLADE TYPE WITH 8-INCH MAXIMUM BLADE WIDTH. DAMPERS SHALL BE MADE OF GALVANIZED STEEL, OR STEEL WITH A SPRAYED OR DIPPED ALUMINUM RUST RESISTANT FINISH AND BE FLUTTER PROOF. USE IN LOW PRESSURE DUCT SYSTEMS ONLY. BASED UPON LOCATION OF THE DUCT IN WHICH THE DAMPER IS TO BE INSTALLED. PROVIDE THE FOLLOWING TYPES OF OPERATORS: DAMPERS IN DUCTS WHICH ARE EXPOSED OR LOCATED ABOVE "LAY-IN" OR "ACCESSIBLE CEILINGS": YOUNG REGULATOR COMPANY MODEL 817. DAMPERS IN DUCTS CONCEALED ABOVE PLASTER CEILINGS OR BEHIND DRY WALL CONSTRUCTION; YOUNG REGULATOR COMPANY MODEL 817A. ACCEPTABLE: PRODUCTS OF TUTTLE & BAILEY, ANEMOSTAT, METALAIRE, KRUEGER, OR BARBER-COLMAN.

FIRE DAMPERS: PROVIDE FIRE DAMPERS WHERE INDICATED ON DRAWINGS AND/OR WHERE OTHERWISE NECESSARY. FIRE DAMPERS SHALL BE UL LABELED CLUSTERED BLADE TYPE, SPRING ACTUATED, FOR HORIZONTAL OR VERTICAL MOUNTING AS DAMPER BLADES SHALL BE HELD IN POSITION BY A 165 DEGREE FUSIBLE LINK. DAMPER SLEEVES SHALL BE 14-GAUGE MINIMUM AND ALL OTHER DETAILS OF INSTALLATION SHALL COMPLY WITH THE UL INSTALLATION DATA SHEETS URNISHED WITH THE DAMPERS. OPENINGS BETWEEN THE FIRE DAMPER SLEEVES ND THE WALL OR FLOOR OPENINGS SHALL BE FILLED WITH FIBERGLASS BATTING TO PREVENT SOUND FLANKING. CLUSTER BLADES SHALL COMPLETELY OUTSIDE AIR STREAM FOR ALL DUCT SYSTEMS (TYPE B). ACCEPTABLE: RUSKIN, AIR BALANCE; AMERICAN WARMING AND VENTILATING; TUTTLE & BAILEY; UNITED SHEET METAL; OR APPROVED EQUAL.

LOW PRESSURE DUCT ACCESS DOORS: PROVIDED FOR EACH MANUAL AND MOTORIZED DAMPER: FIRE DAMPER: ELECTRIC DUCT HEATER: AND WHERE ACCESS IS OTHERWISE NECESSARY. FACTORY PREFABRICATED DOUBLE WALL INSULATED TYPE OF 24-GAUGE GALVANIZED STEEL (OF SAME OR THICKER GAUGE THAN DUCTWORK PANEL IN WHICH INSTALLED, WHICHEVÈR IS GREATER. MINIMUM SIZE SHALL BE AS LARGE AS IS COMPATIBLE WITH DUCT SIZE BUT IN NO CASE LESS THAN THE FOLLOWING (PROVIDE LARGER SIZES IF NECESSARY TO PERMIT PROPER ACCESS OPERATION): MAXIMUM DUCT DIMENSIONS ACCESS DOOR SIZE MAXIMUM DUCT DIMENSIONS X 12" 11" AND LESS

12 X 16' 12" THROUGH 16" 17" AND OVER DOORS SHALL BE PROVIDED WITH HAND OPERATED ADJUSTABLE TENSION CATCHES AND SHALL BE COMPLETELY GASKETED AROUND THEIR PERIMETERS. DOORS SHALL BE VENTLOK "ACCESS DOORS". INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS USING VENTLOK #360 SEALANT.

AIR DISTRIBUTION DEVICES: SCOPE: PROVIDE ALL AIR DISTRIBUTION DEVICES AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN FOR A COMPLETE AND OPERABLE SYSTEM FREE FROM DRAFTS

RELATION TO OTHER WORK: COORDINATE WITH WORK OF THE CEILING, DRYWALL AND PLASTERING TRADES AS REQUIRED TO INSURE AN ORDERLY PROGRESSION OF WORK AND FIRST CLASS FINISHED SYSTEM WITH RESPECT TO PLACEMENT, ALIGNMENT, FINISH AND GENERAL FIT. DESIGN CONDITIONS: ACOUSTICAL: COORDINATE AIR DISTRIBUTION DEVICES, SOUND ATTENUATION MEASURES, AND EQUIPMENT ACTUALLY PROVIDED TO INSURE THAT THE DESIGN

GOALS ARE NOT EXCEEDED BY THE SYSTEM INSTALLED. PRESSURE DROP ACROSS ANY AIR DISTRIBUTION DEVICE SHALL NOT EXCEED 0.15 IN W.G. STATIC PRESSURE UNLESS OTHERWISE INDICATED. GUARANTY: AIR DISTRIBUTION EQUIPMENT SHALL BE GUARANTEED BY THE MANUFACTURER TO OPERATE WITHOUT EXCESSIVE NOISE AND WITH VELOCITIES IN HE FIVE FOOT OCCUPANCY ZONE, WHEN HANDLING AIR WITH TEMPERATURE DIFFERENTIALS AS HIGH AS 25 DEGREES, NOT TO EXCEED 30 FPM AT A 2 DEGREE DIFFERENCE, 50 FPM AT 1-1/2 DEGREE DIFFERENCE, OR 75 FPM AT A 1 DEGREE DIFFERENCE WHEN OPERATING WITH AN AVERAGE 75 DEGREE ROOM TEMPERATURE AND MEASURED NO CLOSER THAN 6 INCHES FROM A WALL SURFACE. MANUFACTURER: TITUS, METAL*AIRE, CARNES, KRUEGER, ANEMOSTAT OR TUTTLE &

BAILEY. MANUFACTURERS MODEL NUMBERS INDICATED ARE EXAMPLES OF PRODUCTS TO BE PROVIDED. MANUFACTURERS MUST BE MEMBERS OF THE AIR DISTRIBUTION COUNCIL UNLESS OTHERWISE INDICATED.

ALL AIR DISTRIBUTION DEVICES SHALL BE CONSTRUCTED OF EXTRUDED ALUMINUM UNLESS OTHERWISE INDICATED. WHERE CONTINUOUS LINEAR SUPPLY AND RETURN DEVICES ARE SHOWN AS ABUTTING ONE ANOTHER IN A SINGLE DIRECTION, THEN THE TOTAL UNBROKEN VISIBLE LENGTH OF THE LINEAR SUPPLY/RETURN DEVICE SHALL EQUAL THE SUM OF THE NOMINAL LENGTHS OF THE ABUTTING DEVICES.

8. EACH AIR DISTRIBUTION DEVICE WHICH HAS A PORTION THEREOF (FRAME. CORE, ETC.) EXPOSED TO VIEW IN THE FINISHED AREA SHALL HAVE A FACTORY APPLIED FINISH WHICH MATCHES AND IS COMPATIBLE WITH THE COLOR OF THE SURROUNDING SURFACE ON WHICH THE DEVICE IS INSTALLED COLORS MUST BE APPROVED BY ARCHITECT PRIOR TO DEVICE FABRICATION. ALL DAMPERS, BLANK-OFF BAFFLES AND OTHER COMPANION DEVICES WHICH FORM AN INTEGRAL PART OF AN AIR DISTRIBUTION DEVICE SHALL BE FACTORY MADE ITEMS PRODUCED BY THE MANUFACTURER OF THE AIR DISTRIBUTION DEVICE.

2.06 SELF-SEALING SPIRAL DUCT SYSTEM

A. ALL ROUND SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SPIROSAFE AS MANUFACTURED BY LINDAB, INC. OR PRIOR-APPROVED EQUAL PRODUCTS OF OTHER MANUFACTURERS. THE DUCT SYSTEM SHALL CONSIST OF FITTINGS THAT ARE FACTORY FITTED WITH A SEALING GASKET AND SPIRAL DUCT WHICH. WHEN INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS, WILL SEAL THE DUCT JOINTS WITHOUT THE USE OF DUCT SEALER.

B. THE CONTRACTOR MAY, AT HIS OPTION, CONVERT ANY OF ALL RECTANGULAR DUCTWORK TO ROUND PROVIDED THAT THE PROJECT SPACE LIMITATIONS ARE PROPERLY ADDRESSED, COORDINATION WITH ALL OTHER TRADES IS SUCCESSFUL AND THAT THE OVERALL SYSTEM DESIGN STATIC PRESSURE IS NOT EXCEEDED. C. UNLESS OTHERWISE NOTED, ALL DUCT AND FITTINGS SHALL BE G-90 GALVANIZED

STEEL IN ACCORDANCE WITH ASTM A-653 AND A-924. WHEN SPECIFIED ON CONTRACT DOCUMENTS, STAINLESS STEEL TYPE 304 OR TYPE 316 IN ACCORDANCE WITH ASTM A-240 SHALL BE PROVIDED. D. UNLESS OTHERWISE NOTED, ALL DUCT AND FITTINGS SHALL BE CONSTRUCTED PER SMACNA DUCT CONSTRUCTION STANDARDS (+10" W.G.) SHOWN IN THE FOLLOWING

E. ALL FITTING ENDS SHALL COME FACTORY—EQUIPPED WITH A DOUBLE—LIPPED. U-PROFILE, EPDM RUBBER GASKET, GASKET SHALL BE MANUFACTURED TO GAUGE AND FLEXIBILITY SO AS TO INSURE THAT THE SYSTEM WILL MEET ALL OF THE PERFORMANCE CLASSIFIED BY UL TO CONFORM TO ASTM E84-91A AND NFPA-90A FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/50. ALL FITTING ENDS SHALL BE CALIBRATED TO MANUFACTURER'S PUBLISHED DIMENSIONAL TOLERANCE STANDARD AND ASSOCIATED SPIRAL DUCT. ALL FITTING ENDS SHALL HAVE ROLLED-OVER EDGES FOR ADDED STRENGTH AND RIGIDITY. ALL ELBOWS FROM 3"-12" DIAMETER SHALL BE 2-PIECE DIE STAMPED AND CONTINUOUSLY STITCH WELDED. ALL ELBOWS 14" DIAMETER AND LARGER SHALL BE STANDING SEAM GORELOCK CONSTRUCTION AND INTERNALLY SEALED. RADIUS OF ALL 90-DEGREE AND 45-DEGREE ELBOWS SHALL BE 1.5 TIMES THE ELBOW DIAMETER: THE RADIUS OF ALL 15-DEGREE, 30-DEGREE AND 60-DEGREE ELBOWS SHALL BE 1.0 TIMES THE ELBOW DIAMETER. ALL FITTINGS THAT ARE SPOT WELDED OR BUTTON PUNCHED CONSTRUCTION SHALL BE INTERNALLY SEALED. WHEN THE CONSTRUCTION DOCUMENTS REQUIRE DIVIDED FLOW FITTINGS. ONLY FULL BODY FITTINGS WILL BE ACCEPTED. THE USE OF DUCT TAPS IS UNACCEPTABLE EXCEPT FOR RETROFIT APPLICATIONS. ALL VOLUME DAMPERS SHALL BE SPIROSAFE TYPE DRU, DSU OR DTU OR APPROVED EQUAL. DAMPER SHALL BE FITTING SIZED TO SLIP INTO SPIRAL DUCT DAMPER SHALL HAVE LOCKING QUADRANT WITH BLADE POSITION INDICATOR, 2" SHEET METAL INSULATION STAND-OFF, INTEGRAL SHAFT/BLADE ASSEMBLY, SHAFT-MOUNTED LOAD BEARING BUSHINGS AND GASKETED SHAFT PENETRATIONS TO MINIMIZE LEAKAGE

SPIRAL DUCT SHALL BE CALIBRATED TO MANUFACTURER'S PUBLISHED DIMENSIONAL TOLERANCE STANDARD. ALL SPIRAL DUCT 14" DIAMETER AND LARGER SHALL BE CORRUGATED FOR ADDED STRENGTH AND RIGIDITY. SPIRAL SEAM SLIPPAGE SHALL BE PREVENTED BY MEANS OF A FLAT SEAM AND A MECHANICALLY FORMED INDENTATION EVENLY SPACED ALONG THE SPIRAL SEAM.

DUCT SYSTEM PERFORMANCE SHALL MEET SMACNA LEAKAGE CLASS 3 REQUIREMENTS AT SYSTEM STATIC PRESSURES NOT TO EXCEED -20" W.G. OR +12" W.G.

3.01 METAL DUCTWORK APPLICATION: SELECT METAL DUCT FOR EXHAUST AND OUTSIDE AIR DUCTWORK SEAM AND JOINT SEALING: SEAL ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS.

A. GENERAL: CONSTRUCT ALL DUCTWORK AND ACCESSORIES IN ACCORDANCE WITH LATEST EDITIONS OF APPLICABLE SMACNA MANUALS. STREAMLINE ALL DUCTWORK TO THE FULL EXTENT PRACTICAL AND EQUIP WITH PROPER AND ADEQUATE DEVICES TO ASSURE PROPER BALANCE AND QUIET DRAFTLESS DISTRIBUTION OF INDICATED AIR QUANTITIES. PROTECT ALL DUCTWORK AND SYSTEM ACCESSORIES FROM DAMAGE DURING CONSTRUCTION UNTIL ARCHITECT'S FINAL ACCEPTANCE OF PROJECT. PRIOR TO DUCTWORK FABRICATION. VERIFY IF ALL DUCTWORK AS DIMENSIONED AND GENERALLY SHOWN WILL SATISFACTORILY FIT ALLOCATED SPACES. TAKE PRECAUTIONS TO AVOID SPACE INTERFERENCE WITH BEAMS, COLUMNS, JOISTS, PIPES, LIGHTS, CONDUIT OTHER DUCTS, EQUIPMENT, ETC. NOTIFY ARCHITECT IF ANY SPATIAL CONFLICTS EXIST, AND THEN OBTAIN ARCHITECT'S APPROVAL OF NECESSARY ROUTING. MAKE ANY SUCH NECESSARY REVISIONS WHICH ARE MINOR AT NO ADDITIONAL COST. CAREFULLY CORRELATE ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS TO PROVIDE PROPER CONNECTIONS, ELBOWS AND BENDS WHICH MINIMIZE NOISE AND PRESSURE DROP PROVIDE ALL CURVED ELBOWS WITH RADIUS RATIOS OF NOT LESS THAN 1.5 UNLESS OTHERWISE SHOWN OR APPROVED BY ARCHITECT. PROVIDE ALL MITERED ELBOWS WITH TURNING VANES. COORDINATE ANY AND ALL DIMENSIONS AT INTERFACES OF DISSIMILAR TYPE OF DUCTWORK AND AT INTERFACES OF DUCTWORK WITH EQUIPMENT SO THAT PROPER OVERLAPS, INTERFACES, ETC., OF INSULATION AND CONTINUITY OF VAPOR BARRIERS ARE MAINTAINED. IF NECESSARY, WHERE INTERFACING DIFFERENT TYPES OF INSULATION PROVIDE TRANSITIONS SO THAT INTERNAL FREE AREA OF DUCT REMAINS UNCHANGED. INSTALL HORIZONTAL RIGID DUCTWORK AS HIGH AS PRACTICAL ABOVE SUSPENDED CEILINGS SO THAT MOVABLE LIGHT FIXTURES MAY BE RELOCATED WITHOUT INTERFERENCE TO MEET ANY FUTURE PARTITION RELOCATION REQUIREMENTS.

HANGERS AND SUPPORTS SHEET METAL DUCT HANGERS: SUPPORT DUCTS FROM THE BUILDING STRUCTURE WITH GALVANIZED STEEL HANGERS TO EACH SIDE OF THE DUCT. HANGERS FOR DUCT TO 60-IN. SHALL BE 1" X 1/8" GALVANIZED STEEL BAND. SPACE HANGERS APPROXIMATELY 8- FT. (8') ALONG THE LENGTH OF DUCT. HANGERS SHALL EXTEND DOWN THE SIDE OF DUCT AND TURN UNDER. SHALL BE SECURED TO DUCT BY TWO OR MORE #14 SHEET METAL SCREWS. WHERE SPRAYED FIRE-PROOFING OCCURS, NSTALL HANGERS BEFORE APPLICATION OF SUCH TREATMENT AND

WITHHOLD INSTALLATION OF DUCTS UNTIL AFTER APPLICATION. SUPPORTS: VERTICAL RISERS AND OTHER DUCT RUNS WHERE THE METHOD SUPPORT SPECIFIED ABOVE IS NOT APPLICABLE SHALL BE SUPPORTED BY SUBSTANTIAL ANGLE BRACKETS DESIGNED TO MEET FIELD CONDITIONS AND INSTALLED TO ALLOW FOR DUCT EXPANSION.
FASTENERS: SECURE HANGERS TO STEEL BEAMS OR METAL DECK WITH

BEAM CLAMPS OR DROP THROUGH CONNECTIONS FROM THE METAL OR FLEXIBLE DUCT: INSTALL ALL FLEXIBLE ROUND DUCT WITHOUT KINKS OR SIMILAR BSTRUCTIONS SO THAT PRESSURE DROP IS MINIMIZED. CUT AND REMOVE EXCESS LENGTHS AS NECESSARY.

CHANGE IN SHAPE OR DIMENSION: WHERE DUCT SIZE OR SHAPE IS CHANGED TO EFFECT A CHANGE IN AREA, THE FOLLOWING SHALL APPLY: WHERE THE AREA AT THE END OF THE TRANSFORMATION RESULTS IN AN NCREASE IN AREA OVER THAT AT THE BEGINNING, THE SLOPE OF THE TRANSFORMATION SHALL NOT EXCEED ONE INCH IN WHERE THE AREA AT THE END OF THE TRANSFORMATION RESULTS IN A DECREASE IN AREA FROM THAT AT THE BEGINNING, THE

INCHES, BUT ONE INCH IN SEVEN INCHES IS PREFERABLE, SPACE THE ANGLE OF TRANSFORMATION AT CONNECTIONS TO HEATING COILS OR OTHER EQUIPMENT SHALL NOT EXCEED THIRTY DEGREES FROM A LINE PARALLEL TO THE AIR FLOW ON THE ENTERING SIDE OF THE EQUIPMENT, NOR FIFTEEN DEGREES ON THE LEAVING SIDE THE ANGLE OF APPROACH MAY BE INCREASED TO SUIT LIMITED SPACE CONDITIONS WHEN THE TRANSFORMATION IS PROVIDED

SLOPE OF THE TRANSFORMATION MAY BE ONE INCH IN FOUR

ALL CHANGES IN SHAPE OR DIMENSION MUST BE APPROVED BY ENGINEER BEFORE INSTALLATION OF DUCT. CHANGES IN DIRECTION: CHANGES IN DIRECTION SHALL BE BASICALL) AS INDICATED ON THE DRAWINGS AND THE FOLLOWING SHALL APPLY: SUPPLY DUCT TURNS OF NINETY DEGREES IN LOW PRESSURE DUCT SHALL BE MADE WITH MITERED FIBOWS FITTED WITH CLOSELY SPACED TURNING

WITH VANES APPROVED BY THE ARCHITECT.

VANES DESIGNED FOR MAINTAINING A CONSTANT VELOCITY THROUGH THE RETURN AND EXHAUST DUCT TURNS OF NINETY DEGREES IN LOW PRESSURE DUCT SHALL BE MADE WITH MITERED ELBOWS, AS SPECIFIED HEREINBEFORE, FOR SUPPLY DUCTS, UNLESS RADIUS ELBOWS ARE INDICATED IN WHICH CASE THEY SHALL BE VANED AND CONSTRUCTED WITH A THROAT RADIUS THREE-QUARTERS THE DUCT WIDTH AND A FULL

RADIUS HEEL. TEES IN LOW PRESSURE DUCT SHALL CONFORM TO THE DESIGN REQUIREMENTS SPECIFIED HEREINBEFORE FOR ELBOWS. BRANCH TAKE-OFFS IN LOW PRESSURE DUCT SHALL BE MADE WITH SPLITTER

DAMPERS, AS INDICATED, IN SQUARE TAKE OFFS. 3.03 OPENINGS, CUTTING AND PATCHING GENERAL: CONTRACTOR SHALL SET IN POSITION ALL SLEEVES AND INSERTS REQUIRED IN WALLS, PARTITIONS, CEILINGS, OR FLOORS, AND SHALL HAVE A REPRESENTATIVE ON—SITE DURING POURING OF CONCRETE TO MAINTAIN POSITION OF SLEEVES AND INSERTS UNTIL CONCRETE IS SET. CLOSE COORDINATION IS REQUIRED TO INSURE THAT ALL SLEEVES ARE PROPERLY SET. CORRECTNESS OF SIZE AND LOCATION OF OPENINGS SHALL BE VERIFIED BY CONTRACTOR AFTER FRAMING IS IN PLACE. CONTRACTOR SHALL DO ALL CUTTING AND PATCHING O EXISTING AND/OR NEW BUILDING MATERIALS REQUIRED FOR INSTALLATION OF WORK HEREIN SPECIFIED. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT APPROVAL OF STRUCTURAL ENGINEER AND ALL SUCH CUTTING SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, MEETING WITH APPROVAL OF STRUCTURAL ENGINEER TO MATCH ADJOINING SURFACES AND FINISHES, BY MECHANICS OF PARTICULAR TRADE INVOLVED. SLEEVES AND OPENINGS NOT USED DURING CONSTRUCTION SHALL BE SEALED WITH GROUT BY CONTRACTOR OPENINGS BETWEEN PIPES AND SLEEVES THROUGH FIRE AND SMOKE WALLS OF FLOORS SHALL BE SEALED TO PREVENT PASSAGE OF SMOKE OR HEAT USING AN UNDERWRITERS' LABORATORIES APPROVED METHOD RATED AT LEAST FOLIAL TO THE BARRIER BEING PENETRATED. METHOD OF SEALING SHALL BE SUBMITTED WITH PROOF OF U.L. APPROVAL WITH OTHER SUBMITTALS. ALL OPENINGS

REQUIRED IN CONCRETE WHICH WERE OMITTED WHEN CONCRETE WAS POURED

SHALL BE CAREFULLY MADE BY USE OF CORE BORING OPERATION WITH 5-IN

MAXIMUM HOLE SIZE UNLESS LARGER SIZE IS APPROVED BY STRUCTURAL

ENGINEER. CUT NO OPENINGS IN PRESTRESSED OR PRECAST MEMBERS

WALLS AND PARTITIONS:

WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

PIPE SLEEVES 8-INCH DIAMETER AND SMALLER (ABOVE GRADE): SLEEVES SHALL BE MILD STEEL PIPE OR PLASTIC SLEEVES BUILT INTO WALL, PARTITION OR BEAM, SIZED TO PASS PIPE AND COVERING, LEAVING A CLEAR SPACE OF 1/4-INCH MINIMUM BETWEEN COVERING AND SLEEVE. PENETRATIONS OF FIRE RATED BARRIERS SHALL HAVE MILD STEEL SLEEVES.

PIPE SLEEVES INSTALLED IN EXTERIOR WALLS BELOW GRADE: SCHEDULE 40 STEEL HOT DIPPED GALVANIZED AFTER FABRICATION OR CAST IRON SLEEVE WITH 1/4-INCH X 3-INCH CENTER FLANGE (WATER STOP) AROUND THE OUTSIDE. PIPE SLEEVES IN FLOORS (ABOVE GRADE): SLEEVES SHALL BE 14 GAUGE

GALVANIZED SHEET STEEL OR PLASTIC, SET BEFORE FLOOR IS POURED, SIZED TO PASS PIPE AND COVERING, LEAVING A CLEAR SPACE OF 1/4-INCH BETWEEN COVERING AND SLEEVE, AND SHALL EXTEND 1/2-INCH ABOVE FINISHED FLOOR. DUCT SLEEVES: SLEEVES OR OPENINGS SIZED TO PASS MECHANICAL DUCTS AND COVERING SHALL BE OF FRAMED CONSTRUCTION IN ROOF, WALL, OR

SLEEVES BELOW GRADE: CAULK ANNULAR SPACE BETWEEN PIPE AND SLEEVE USING OAKUM AND POURED LEAD BOTH SIDES MINIMUM ONE INCH

DEEP TO MAKE WALL PENETRATION WATER TIGHT SLEEVES ABOVE GRADE: OPENINGS AROUND PIPES, DUCT, ETC., PASSING THROUGH SLEEVES SHALL BE MADE DRAFT FREE AND VERMIN-PROOF BY

PACKING SOLIDLY WITH MINERAL WOOL OR FIBERGLASS. SEALING OF SLEEVES THROUGH FIRE RATED BARRIERS: OPENINGS AROUND PIPES, ETC., THROUGH FIRE RATED BARRIERS SHALL BE SEALED USING AN U.L. APPROVED METHOD RATED AT LEAST EQUAL TO THE WALL BEING PENETRATED.

3.04 REMOVAL OF RUBBISH CONTRACTOR SHALL AT ALL TIMES KEEP PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIAL OR RUBBISH GENERATED BY WORK UNDER THIS CONTRACT.

3.05 EXCAVATION, BACKFILLING AND COMPACTION ALL EXCAVATION, BACKFILLING, COMPACTION, TESTING, ETC. REQUIRED FOR THE INSTALLATION OF UNDERGROUND PIPING IN THIS DIVISION OF THE SPECIFICATIONS SHALL BE DONE BY THE MECHANICAL CONTRACTOR. THIS WORK SHALL BE DONE IN STRICT ACCORDANCE WITH EXCAVATION AND BACKFILLING SECTION OF DIVISION 2.

3.06 CLEANING AND ADJUSTMENTS UPON COMPLETION OF WORK, CONTRACTOR SHALL CLEAN, OIL AND GREASE ALL FANS, MOTORS AND OTHER RUNNING EQUIPMENT AND APPARATUS WHICH HE INSTALLS AND MAKE CERTAIN ALL SUCH APPARATUS AND MECHANISMS ARE IN PROPER WORKING ORDER AND READY FOR TEST. REFER TO SECTION ENTITLED "SYSTEMS COMPLETION".

3.07 AS-BUILT DRAWINGS UPON COMPLETION OF INSTALLATION, THE CONTRACTOR SHALL FURNISH TO THE ARCHITECT A SET OF DRAWINGS, MARKED TO SCALE, INDICATING THE SIZE AND LOCATION OF PIPING AND DUCTS, AND NOTING ALL MAJOR CHANGES MADE DURING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN THE DRAWINGS FROM THE ARCHITECT AND SHALL BEAR ALL COSTS IN OBTAINING THE DRAWINGS AND PROVIDING THE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL DELIVER THE DRAWINGS PLUS TWO SETS OF AS-BUILT DRAWINGS TO THE ARCHITECT. EACH SHEET IN EACH SET SHALL BE SIGNED BY A PRINCIPAL REPRESENTATIVE OF THE CONTRACTOR, DATED AND HAVE "AS-BUILT" STAMPED NEAR THE SIGNATURE. DRAWINGS SHALL GIVE ACCURATE DIMENSIONS MEASURED FROM COLUMNS, WALLS, BEAMS AND OTHER FIXED PARTS OF THE BUILDING TO THE CONCEALED MATERIALS. THE CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE SITE AND EACH DAY SHALL RECORD INSTALLATION OF PIPE, DUCTS, ETC. TO INSURE ACCURATE "AS-BUILT" DRAWINGS. THE CONTRACTOR SHALL ALSO FURNISH A SET OF DRAWINGS AND TWO SETS OF CONTRACTOR SIGNED AND DATED AS-BUILT DRAWINGS OF THE CONTROLS.

3.08 GUARANTEE AND SERVICE IN ADDITION TO THE GUARANTEE OF EQUIPMENT BY THE MANUFACTURER OF EACH PIECE OF EQUIPMENT SPECIFIED HEREIN, THE MECHANICAL CONTRACTOR SHALL ALSO GUARANTEE SUCH EQUIPMENT AND SHALL BE HELD RESPONSIBLE FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE FOR NECESSARY ADJUSTMENTS AND/OR REPLACEMENTS OF ALL DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP WITHOUT EXPENSE TO THE OWNER. PROVIDE A LETTER TO THE OWNER STATING THE CONTRACTOR'S GUARANTEE AND DATES OF GUARANTEE COVERAGE.

CLEANING OF PERMANENT TYPE FILTERS; LUBRICATION, AND CLEANING OF STRAINERS SHALL BE TO 30-DAYS AFTER THE FINAL ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE FOR A REPRESENTATIVE OF HIS FIRM,

THE CONTROL SYSTEM CONTRACTOR, AND THE OWNER'S REPRESENTATIVE TO RETURN TO THE JOB AT THE CHANGE OF SEASONS, (SUMMER TO WINTER OR WINTER TO SUMMER) FOR THE FIRST YEAR ONLY, TO ADJUST THE AIR CONDITIONING SYSTEMS AND RECHECK OR RECALIBRATE CONTROLS AS MAY BE REQUIRED OF THE SEASON CHANGE FROM COOLING TO HEATING OR VICE VERSA.

3.09 ACCEPTANCE AS A PREREQUISITE TO REQUESTING FINAL INSPECTION, CONTRACTOR

TEST AND BALANCE EACH SYSTEM TO ASSURE DESIGN PERFORMANCE AND PROVIDE ARCHITECT AND ENGINEER WITH PRELIMINARY TEST

FURNISH LETTER FROM AUTHORIZED REPRESENTATIVE OF CONTROL MANUFACTURER THAT ALL CONTROLS HAVE BEEN CHECKED FOR OPERATION AND CALIBRATION AND THAT ALL SYSTEMS ARE OPERATING AS INTENDED. ACCEPTANCE WILL BE MADE BY THE ARCHITECT-ENGINEER OR HIS

REPRESENTATIVE ON THE BASIS OF TESTS AND INSPECTION OF THE JOB. CONTRACTOR SHALL FURNISH THE NECESSARY MECHANICS TO OPERATE SYSTEMS, MAKE ANY NECESSARY ADJUSTMENTS AND ASSIST WITH THE FINAL INSPECTION

3.10 TEST & BALANCE OF MECHANICAL SYSTEMS

A. GENERAL CONTRACTOR SHALL OBTAIN SERVICES OF A TEST AND BALANCE AGENCY THAT SPECIALIZES IN AND WHOSE BUSINESS IS LIMITED TO THE TESTING AND BALANCING OF AIR CONDITIONING SYSTEMS AND IS A TRUE THIRD PARTY OF THE MECHANICAL CONTRACTOR. TEST AND BALANCE AGENCY SHALL NOT BE CONTRACTED BY THE MECHANICAL CONTRACTOR. THE AGENCY SELECTED SHALL BE A FULLY CERTIFIED MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU. (NEBB)

B. TESTING AND BALANCING SHALL BE PERFORMED IN COMPLETE ACCORDANCE WITH THE LATEST EDITION OF THE AABC STANDARDS FOR FIELD MEASUREMENT & INSTRUMENTATIONS, AS PUBLISHED BY THE ASSOCIATED AIR BALANCE COUNCIL OR LATEST EDITION OF NEBB PROCEDURAL STANDARDS FOR TESTING, ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS. C. INSTRUMENTS USED FOR TESTING AND BALANCING OF SOUND, VIBRATION AND AIR SYSTEMS MUST

HAVE BEEN CALIBRATED WITHIN A PERIOD OF SIX MONTHS PRIOR TO BALANCING. ALL FINAL TEST ANALYSIS REPORTS SHALL INCLUDE A LETTER OF CERTIFICATION LISTING INSTRUMENTATION USED AND LAST DATE OF CALIBRATION. D. ONE (1) COPY OF THE INITIAL DATA SHALL BE SUBMITTED DIRECTLY TO THE ENGINEER FOR HIS EVALUATION AND APPROVAL. WHEN THIS APPROVAL IS GIVEN, THREE (3) COPIES OF THE

COMPLETED TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL INSPECTION OF

THE PROJECT. THESE THREE (3) COPIES SHALL BE RETURNED TO THE CONTRACTOR FOR PLACING IN THE PORTFOLIOS OUTLINED IN SECTION 15950 - "SYSTEM COMPLETION". THE REPORT FORMAT SHALL FOLLOW THE STANDARD FORMAT AND INFORMATION AS RECOMMENDED BY AABC. E. NAME OF TEST AND BALANCE AGENCY SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL WITHIN 20_DAYS AFTER RECEIPT OF CONTRACT. CONTRACTOR SHALL FURNISH TO BALANCING AGENCY A COMPLETE SET OF PLANS AND SPECIFICATIONS AND AN APPROVED COPY OF ALL EQUIPMENT SUBMITTAL DATA, AND SHOP DRAWINGS. TEST AND BALANCE AGENCY SHALL NOTIFY ENGINEER OF ANY ADDITIONAL REQUIRED TEST COCK LOCATIONS, BALANCING DAMPER LOCATIONS, ETC. WITHIN 30_DAYS AFTER APPROVAL OF THE AGENCY. ANY ADDITIONAL BALANCING DEVICES REQUIRED BY THE TEST AND BALANCE AGENCY AFTER THIS PERIOD WILL BE INSTALLED AT NO

EXPENSE TO THE OWNER BY THE CONTRACTOR. F. TEST AND BALANCE AGENCY SHALL INCLUDE AN EXTENDED WARRANTY OF 90_DAYS, AFTER COMPLETION OF TEST AND BALANCE WORK, DURING WHICH TIME THE ENGINEER, AT HIS DISCRETION, MAY REQUEST A RECHECK OR RESETTING OF ANY ITEMS INCLUDED IN THE AIR DISTRIBUTION SYSTEMS. THE AGENCY SHALL PROVIDE TECHNICIANS TO ASSIST THE ENGINEER IN MAKING ANY TEST HE MAY REQUIRE DURING THIS PERIOD OF TIME

G. THE TEST AND BALANCE AGENCY SHALL FURNISH THE ENGINEER AND OWNER A STANDARD

"NATIONAL PROJECT CERTIFICATION PERFORMANCE GUARANTY." H. SUBCONTRACTOR SHALL PROVIDE SUFFICIENT TIME BEFORE THE SUBSTANTIAL COMPLETION DATE SO THAT TESTS AND BALANCING CAN BE ACCOMPLISHED. TEST AND BALANCE AGENCY SHALL ACCOMPANY THE ENGINEERS ON FOUR (4) SITE VISITS TO INSURE THAT BALANCING DEVICES ARE INSTALLED SO THAT EACH SYSTEM CAN BE PROPERLY BALANCED.

1.02 FINAL TESTS, INSPECTION, AND ACCEPTANCE A. CAPACITY AND PERFORMANCE TESTS: MAKE TESTS TO DEMONSTRATE THAT CAPACITIES AND GENERAL PERFORMANCE OF AIR DISTRIBUTION SYSTEMS COMPLY WITH CONTRACT REQUIREMENTS. FINAL INSPECTION: AT THE TIME OF FINAL INSPECTION, THE CONTRACTOR SHALL RECHECK, IN THE PRESENCE OF THE ENGINEER, RANDOM SELECTIONS OF DATA INCLUDING WATER AND AIR QUANTITIES AND FLOW RATES, AIR MOTION AND SOUND LEVELS AS RECORDED IN THE CERTIFIED

2. MEASUREMENT AND TEST PROCEDURES: AS APPROVED FOR WORK FORMING BASIS OF CERTIFIED REPORT.

3. SELECTIONS FOR RECHECK (SPECIFIC PLUS RANDOM): IN GENERAL, SELECTIONS FOR RECHECK WILL NOT EXCEED 25 PERCENT OF THE TOTAL NUMBER TABULATED IN THE REPORT. EXCEPT THAT SPECIAL AIR SYSTEMS MAY REQUIRE A COMPLETE RECHECK FOR SAFETY REASONS.

B. RETESTS: IF RANDOM TESTS REVEALS MEASURED FLOW DEVIATION OF TEN PERCENT OR MORE FROM, OR A SOUND LEVEL OF 2 DB OR MORE, GREATER THAN THAT RECORDED IN THE CERTIFIED REPORT LISTINGS, AT TEN PERCENT OR MORE OF THE RECHECKED LOCATIONS, THE REPORT SHALL BE AUTOMATICALLY REJECTED. IN THE EVENT THE REPORT IS REJECTED, ALL SYSTEMS SHALL BE READJUSTED AND TESTED, NEW DATA RECORDED, NEW CERTIFIED REPORTS SUBMITTED, AND NEW

C. MARKING OF SETTINGS: FOLLOWING FINAL ACCEPTANCE OF CERTIFIED REPORTS BY THE ENGINEER, THE SETTINGS OF ALL SPLITTERS, DAMPERS AND OTHER ADJUSTMENT DEVICES SHALL BE PERMANENTLY MARKED BY THE CONTRACTOR, SO THAT ADJUSTMENT CAN BE RESTORED IF DISTURBED AT ANY TIME. DO NOT MARK DEVICES UNTIL AFTER FINAL ACCEPTANCE.

D. CONTRACTOR TO PROVIDE ADEQUATE CLOSURE FOR ALL TEST HOLES MADE IN DUCTWORK AND EQUIPMENT TO ACCOMPLISH TEST AND BALANCE. PART 2 _ EXECUTION

2.01 TEST AND BALANCE PROCEDURE

TEST AND BALANCE ENTIRE HVAC SYSTEM IN ACCORDANCE WITH LATEST AABC OR NEBB STANDARDS. THE REPORT SHALL INDICATE THE LOCATION ON A PLAN OF EACH MEASUREMENT AS DOCUMENTED IN A. AIR MOVING EQUIPMENT: DATA SHEETS IN ACCORDANCE WITH AABC SHALL BE SUBMITTED FOR EACH

PIECE OF AIR MOVING EQUIPMENT. 1. TOTAL CFM FOR SUPPLY RETURN AND OUTSIDE AIR DUCTS WHERE APPLICABLE SHALL BE TESTED BY TRAVERSING EACH DUCT AND RECORD THE DATA ON THE AIR MOVING EQUIPMENT DATA SHEET AND DUCT TRAVERSE DATA SHEET.

SHEET FOR ALL MODULAR AIR MOVING EQUIPMENT. 3. DIRECT EXPANSION COOLING COIL SHALL BE TESTED AND RECORDED ON THE DIRECT EXPANSION COOLING COIL DATA SHEET.

2. STATIC PRESSURE PROFILE SHALL BE TAKEN AND RECORDED ON THE STATIC PRESSURE PROFILE

4. DIRECT EXPANSION HEATING COIL IN THE HEAT PUMP MODE SHALL BE TESTED AND RECORDED ON THE DIRECT EXPANSION HEATING COIL DATA SHEET.

5. ELECTRIC UNIT OR DUCT HEATER SHALL BE TESTED AND RECORDED ON THE ELECTRIC HEATER 6. AIR DISTRIBUTION DEVICES SHALL BE TESTED AND RECORDED ON THE AIR DISTRIBUTION DATA

a. CEILING AIR DEVICES SHALL BE TESTED WITH A CALIBRATED CAPTIVE HOOD WHERE POSSIBLE. b. AIR DEVICES SUCH AS (SLOT DIFFERS AND BAR GRILLES) MAY BE TESTED WITH A

CALIBRATED DEFLECTING VANE ANEMOMETER. c. AIR DEVICES SUCH AS SUPPLY / RETURN GRILLES AND HOODS MAY BE TESTED WITH ROTATING VANE ANEMOMETER.

INDICATED ON THE MANUFACTURES FAN TABLE SHEET.

7. AIR MOVING EQUIPMENT FAN DATA SHALL BE TESTED AND RECORDED ON THE AIR MOVING EQUIPMENT DATA SHEET. a. EACH FAN 5HP OR GREATER SHALL INCLUDE A MANUFACTURES FAN CURVE INDICATING THE FIELD TESTED SYSTEM CURVE.

b. EACH FAN LESS THAN 5HP SHALL INCLUDE, AT THE MINIMUM, THE FIELD TESTED DATA

2.04 SOUND TESTING THE TEST AND BALANCE AGENCY SHALL DOCUMENT THE SOUND POWER LEVELS THROUGHOUT THE FACILITY INCLUDING EQUIPMENT ROOMS AND OCCUPIED SPACES. SOUND POWER MEASUREMENTS SHALL BE TAKEN ACROSS ALL MAJOR OCTAVE BAND CENTER FREQUENCIES AND RECORDED ON NC CHART.



Jacksonville, FL 32224

(904) 714-5188

FBPE Certificate # 28163

interior plannin architecture

DESIGN

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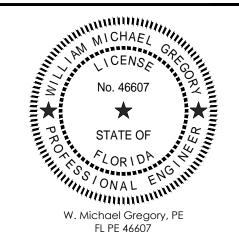
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CORRECT DIMENSIONS WITH THE ARCHITECT. SCALE NOTED IS FOR FULL "ANSI-D" SIZE PRINTS. CONTRACTOR SHALL CHECK & VERIFY ALL JOB SITE

DO NOT SCALE THE DRAWINGS. IF NOT SHOWN, VERIFY

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CONDITIONS.



Project Number: 22.0017.00 Drawn By:

Checked By:

Project Name:

1649 ATLANTIC OFFICE RENOVATION

JACKSONVILLE, FL

Drawing Name:

MECHANICAL SPECIFICATIONS

			LAMP				
TYPE	MANUFACTURER	CATALOG NUMBER	SIZE	QUAN.	VOLTS	MTG. HEIGHT	NOTES
		BLRD5-09C3-30KS-90-S-WH-					PENDANT MOUNTED
Α1	USAI	UNV-D6E	9W LED 3000K	NA	120-277	CEILING	DOWNLIGHT - NOTE 4
		BLRD5-16C3-30KS-90-S-WH-					PENDANT MOUNTED
A2	USAI	UNV-D6E	16W LED 3000K	NA	120-277	CEILING	DOWNLIGHT - NOTE 4
B1	TBAR LED	TBSL-HW-4-15-D-A-W	32W LED 3000K	NA	120-277	CEILING	LINEAR LED - NOTE 12
B2	TBAR LED	TBSL-HW-5-15-D-A-W	40W LED 3000K	NA	120-277	CEILING	LINEAR LED - NOTE 12
С	KUZCO	VL63724-BK	19W LED 3000K	NA	120	WALL - NOTE 1	VANITY
		4654B-LED.10-30-80-120V-DP-					
D	EUREKA	BLK-WH	14W LED 3000K	NA	120	CEILING	LED SURFACE MOUNT
E	KUZCO	CH72225	82W LED 3000K	NA	120	CEILING	LED CHANDELIER - NOTE 4
						WALL - 8'-0"	
EM	BEGHELLI	EL-SE-205LED-120/277	NA	NA	120/277		 EMERGENCY LIGHT
EX	BEGHELLI	VA4-R-SA-AT	NA	NA	120/277		EXIT SIGN
LA	BEOTILLE	VAT-IC-SA-AT	100W LED EQ.		120/2//	NOILS	EXT SIGN
			LARGE CLEAR				
_	BLU DOT	LA1 LCW/DE DV			120	CEILING	DECORATIVE DENIDANT NOTE 4
F	BLUDUI	LA1-LGWIRE-BK	MED BASE 3000K	1	120	CEILING	DECORATIVE PENDANT-NOTE 4
(DD14/	UD 31 B DC30 30 377 10 DEV	0W/1ED 2000K		120 277	CELLING	LED DENDANT NOTE 4
G	RBW	HP-21-B-PC30-30-277_10_DEX		NA		CEILING	LED PENDANT - NOTE 4
Н	TECH LIGHTING	700TDKA12-B-LED930	12W LED 3000K	NA	120	CEILING	LED PENDANT - NOTE 4
			100W LED EQ.				
	BLU DOT		LARGE CLEAR	1	120		
J		LA1-MSWIRE-BK	MED BASE 3000K	-		CEILING	DECORATIVE PENDANT-NOTE 4
K	TECH LIGHTING	700LSSPCT-B-LED930	56W LED 3000K	NA	120	CEILING	LED CHANDELIER - NOTE 4
		LS2-48-PCXX-DDIF-INO-30-					
L	RBW	277_10_DIN	108W LED 3000K	NA		CEILING	LED PENDANT - NOTE 4, 5
М	LIGHTOLOGY	COLSO518L30D1BK	19W LED 3000K	NA	120	WALL - NOTE 1	LED SCONCE
		CLX-L48-5000LM-SEF-RDL-WD-	-				
N1	LITHONIA	MVOLT-30K-80CRI	36W LED 3000K	NA	120-277	CEILING	LED STRIP
		CLX-L24-2500LM-SEF-RDL-WD-	-				
N2	LITHONIA	MVOLT-30K-80CRI	20W LED 3000K	NA	120-277	CEILING	LED STRIP
		B4RD-12G1-30KS-90-S-NC-					
P1	USAI	UNV-D6E	12W LED-3000K	NA	UNV	CEILING	LED DOWNLIGHT-NOTE 5,6
		B4RD-16G1-30KS-90-S-NC-					
P2	USAI	UNV-D6E	16W LED-3000K	NA	UNV	CEILING	LED DOWNLIGHT-NOTE 5,6
		B4RD-24G1-30KS-90-S-NC-					
Р3	USAI	UNV-D6E	24W LED-3000K	NA	UNV	CEILING	LED DOWNLIGHT-NOTE 5,6
		B4RW-12G1-30KS-W2-D2-NC-					
PW	USAI	UNV-D6E	12W LED 3000K	NA	UNV	CEILING	LED WALL WASH - NOTE 5,6
		BLRW5-09C3-30KS-WH-UNV-					PENDANT MOUNTED
Q1	USAI	D6E/PXB-24"-WH	9W LED 3000K	NA	120-277	CEILING	WALLWASH - NOTE 4
		PZM-TLSD-54-24V-30K/PZM-		1			
	PRIZM	-	2.2W/FT 3000K	NA	24	LINDER CABINET	LED TAPE LIGHT - NOTE 8
R	1 112141	1M	2.244/11 3000K	''`		ON DEN CABINET	LES I'M E EIGHT NOTES
S	JUNO	USTLR1-30K-80CRI-BL	4W LED 3000K	NA	12	UNDER CABINET	UNDER CABINET PUCK
<u> </u>	10110	WDGE2LED-P3-40K-80CRI-VF-	444 EED 3000K	INA		ABOVE DOOR -	ONDER CABINET FOCK
т	LITHONIA		22W ED 4000K	NA.			LED WALLBACK
T	LITHONIA	MVOLT	23W LED 4000K	NA	120-2//	NOTE 10	LED WALLPACK
1.14	NAA DIKA BOU	WHSPR-2X4-80CRI-30K-	443471 ED 200017		120/27	CELLING	LED 3V4 TDGEEE
U1	MARKARCH	4800LM-MIN1-MVOLT	41W LED 3000K	NA	120/2/7	CEILING	LED 2X4 TROFFER
		WHSPR-2X4-80CRI-30K-		 			
	MARK ARCH	6000LM-MIN1-MVOLT	53W LED 3000K	NA	120/277	CEILING	LED 2X4 TROFFER
U2							
U2 X	TEMPO ARCH	pFXC-CW-0-120-E-8-30-WH- XX'	8W/LF 3000K	NA	120	CEILING	LED COVE LIGHT - NOTE 12

IGHTING FIXTURE SCHEDULE NOTES:

- 1. SEE ARCHITECTURAL CEILING PLAN, ELEVATIONS & DETAILS FOR EXACT LOCATION & MOUNTING HEIGHT OF LIGHT FIXTURES.
- 2. FIXTURES INDICATED TO BE EMERGENCY LIGHTING FIXTURES SHALL HAVE AN EMERGENCY BATTERY BALLAST. BATTERY BALLASTS SHALL PROVIDE 1400 LUMENS FOR LINEAR FIXTURES AND 700 LUMENS FOR DOWNLIGHTS.
- 3. SINGLE OR DOUBLE FACE AS INDICATED ON DRAWING, MOUNT TO CEILING UNLESS CEILING EXCEEDS 9'-0", THEN MOUNT ABOVE DOOR.
- DOWNROD LENGTH PROVIDED BY ARCHITECT.
- 5. ARCHITECT/INTERIOR DESIGNER TO PROVIDE FINISH COLOR.
- 5. WHERE FIXTURE IS IN CONTACT WITH CEILING INSULATION, INSTALL A TENMAT FF135 DRAFT STOP COVER OVER FIXTURE.
- 7. CONTRACTOR/LIGHTING SUPPLIER TO VERIFY ALL LED RETROFIT LAMP BASES, SIZES AND SHAPE WITH FIXTURES PROVIDED IN LIGHTING SUBMITTAL PRIOR TO SUBMITTAL REVIEW AND PROVIDE CUT SHEETS FOR EACH LED RETROFIT LAMP IN SUBMITTAL.
- 3. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION INCLUDING DIMMABLE POWER SUPPLY AND ALUMINUM CHANNEL
- WITH FROSTED LENS. VERIFY LENGTHS WITH ID DRAWINGS.
- FIXTURE TO BE AS SPECIFIED. NO SUBSTITUTIONS.
- 10. MOUNT FIXTURE AS HIGH AS POSSIBLE ABOVE DOOR ON WALL.
- 11. VERIFY EXACT MOUNTING OF FIXTURE AND RUN LENGTHS WITH INTERIOR DESIGNER AND ARCHITECT.
- 12. PROVIDE ALL FITTINGS AND HARDWARE, INCLUDING POWER FEEDS, 0-10V DIMMABLE DRIVERS/TRANSFORMERS, JUMPERS, CORNER FITTINGS, END CAPS, MOUNTING CLIPS, ETC. NECESSARY FOR COMPLETE AND FUCTIONING INSTALLATION MEETING DESIGN INTENT DEPICTED ON DRAWINGS.

LIGHTING EQUIPMENT SUBMITTALS

LUMINAIRES AND CONTROL DEVICES INCLUDED IN THE DRAWINGS ARE SELECTED AND SPECIFIED FOR OPTIMUM RESULTS IN MEETING FACILITY LIGHTING REQUIREMENTS. RELEVANT FACTORS INCLUDE, BUT ARE NOT LIMITED TO, AESTHETIC APPEARANCE, COST, DURABILITY, ENERGY EFFICIENCY, AND PHOTOMETRIC PERFORMANCE.

LIGHT LEVEL CALCULATIONS ARE PERFORMED BY OUR ENGINEERS AND DESIGNERS USING INDUSTRY STANDARD PHOTOMETRIC DATA FILES AND SOFTWARE.

WHEN SUBMITTING LUMINAIRES OTHER THAN THOSE SPECIFIED, THE SUBSTITUTE PRODUCT MUST BE DEMONSTRABLY EQUIVALENT TO THE SPECIFIED ITEM. THIS INCLUDES, BUT IS NOT LIMITED TO, GENERAL LEVEL OF QUALITY, BASIC DESIGN AND APPEARANCE, CONSTRUCTION TYPE & METHOD, MATERIAL TYPE & GAUGE, FINISHING PROCESS, AND PHOTOMETRIC PERFORMANCE.

FOR PROPOSED SUBSTITUTE LUMINAIRES, INCLUDE IN SUBMITTAL LIGHTING CALCULATIONS USING INDUSTRY STANDARD PHOTOMETRIC DATA FILES AND SOFTWARE, DEMONSTRATING PERFORMANCE RESULTS EQUIVALENT TO THAT OF THE SPECIFIED PRODUCT. CALCULATIONS MUST MODEL BOTH LUMINAIRES IN IDENTICAL TEST SPACES OF THE SAME DIMENSIONS USING IDENTICAL VARIABLES SUCH AS LIGHT LOSS FACTOR, MOUNTING HEIGHT, AND SURFACE REFLECTANCE VALUES.

INCLUDE IN THE SUBMITTAL, A SUMMARY DATA SHEET COMPARING THE DESCRIPTIVE PRODUCT DATA AND CATALOG NUMBER NOMENCLATURE OF THE TWO LUMINAIRES, HIGHLIGHTING THAT THE SUBSTITUTE ITEM MATCHES THE FEATURES & CHARACTERISTICS OF THE SPECIFIED LUMINAIRE IN MAJOR ASPECTS SUCH AS THOSE NOTED ABOVE.

LUMINAIRE SUBMITTALS RECEIVED THAT PROPOSE OTHER PRODUCTS THAN THOSE SPECIFIED BUT WHICH DO NOT INCLUDE LIGHTING CALCULATIONS AND A COMPARATIVE SUMMARY PRODUCT DATA SHEET WILL BE RETURNED WITHOUT REVIEW AS "INCOMPLETE".

GENERAL NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIXTURE LOCATIONS AND MOUNTING HEIGHT WITH
- 2. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
- 3. SEPARATE GREEN GROUND CONDUCTOR SHALL BE ROUTED IN ALL CONDUITS WITH ALL PHASE
- 4. ALL MECHANICAL EQUIPMENT SHALL BE COMPLETELY CONNECTED BY ELECTRICAL CONTRACTOR INCLUDING BOTH POWER AND CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
- 5. BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS FOR CLARITY ONLY, ELECTRICAL CONTRACTOR MAY GROUP SINGLE POLE BRANCH CIRCUITS IN MULTIPLE CIRCUITS HOME RUNS. (2 CIRCUITS MAX @ 120/240V. 10 OR 3 CIRCUITS MAX @ 120/208V. 30). A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CONDUITS.
- 6. ELECTRICAL CONTRACTOR SHALL PROVIDE AT EACH PANELBOARD A TYPED CIRCUIT DIRECTORY WITH PROTECTIVE PLASTIC SLEEVE.
- 7. ALL CONDUITS SHALL BE CONCEALED IN WALL SPACE, CEILING SPACE OR UNDER FLOOR, NO EXPOSED CONDUITS PERMITTED.
- 8. COMPLETE SYSTEM SHALL BE GROUNDED PER N.E.C ARTICLE 250.
- 9. ALL BRANCH CIRCUIT WIRE SIZE SHALL BE MINIMUM #12 AWG COPPER. PULL EQUIPMENT GROUND IN ALL RACEWAYS, PER N.E.C. ELECTRICAL CONTRACTOR SHALL PROVIDE PROPER NUMBER AND SIZE CONDUCTOR
- 10. VERIFY WIRING DEVICE AND FACE PLATE COVER WITH INTERIOR DESIGN PRIOR TO INSTALLATION.
- 11. PRIOR TO BIDDING, THE CONTRACTOR SHALL VERIFY ALL DRAWING SCALES INDICATED ON PLANS WITH KNOWN DIMENSIONS TO ENSURE SCALES ARE ACCURATE.

FLORIDA ENERGY CODE NOTES:

- C405.6.4.1 DRAWINGS. WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF
- THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING: 1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
- 2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
- C405.6.4.2 MANUALS. AN OPERATING MANUAL AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
- 1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT
- 2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING
- MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. 3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- C408.3.1 FUNCTIONAL TESTING. PRIOR TO PASSING FINAL INSPECTION, A REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 AND C408.3.1.2 OF THE FLORIDA ENERGY EFFICIENCY CODE FOR THE APPLICABLE CONTROL TYPE. CONTRACTOR IS RESPONSIBLE FOR CONTRACT WITH DESIGN PROFESSIONAL FOR REQUIRED FUNCTIONAL TESTING.

DEMOLITION NOTES:

- 1. THERE SHALL NOT BE ANY INTERRUPTION TO SERVICES TO THE EXISTING BUILDINGS WITHOUT PRIOR SCHEDULING OF SUCH OUTAGES WITH THE OWNER'S REPRESENTATIVE.
- 2. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ANY MODIFICATIONS TO EXISTING SYSTEMS AND SHALL UPON COMPLETION, DELIVER "AS-BUILT" DRAWINGS TO THE OWNER, INDICATING ANY SUCH CHANGES.
- 3. WHERE FEEDERS ARE ABANDONED, WIRE SHALL BE PULLED OUT AND ALL EXPOSED SECTIONS OF CONDUITS REMOVED. ALL SWITCHES. PANELS. ETC. SHALL BE REMOVED. ALL CONCEALED CONDUITS SHALL BE CAPPED AT POINT OF CONCEALMENT. REPAIR GYPSUM BOARD AS REQUIRED. BLANK COVER PLATES ARE NOT ACCEPTABLE.
- 4. ALL EXISTING DEVICES AND FIXTURES IN THE PATH OF RENOVATION OR BUILDING ADDITIONS SHALL BE REMOVED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN EXISTING CIRCUITRY TO ALL REMAINING DEVICES AND FIXTURES. FOR EACH DEVICE OR FIXTURE REMOVED AT THE END OF A CIRCUIT. CONTRACTOR SHALL REMOVE WIRING FROM LAST REMAINING DEVICE, FOR EACH DEVICE OR FIXTURE REMOVED IN THE MIDDLE OF A CIRCUIT, CONTRACTOR SHALL REMOVE WIRING FROM FIRST DEVICE OR FIXTURE BEFORE AND AFTER REMOVED DEVICE AND FIXTURE. NEW WIRING, SIZED THE SAME AS EXISTING. SHALL BE PULLED BETWEEN THE TWO REMAINING DEVICES OR FIXTURES.
- 5. CONTRACTOR MAY REUSE EXISTING CONDUIT SYSTEM WHERE APPLICABLE, PROVIDING THE REUSED SYSTEMS MEET CURRENT CODES AND SPECIFICATIONS. REMOVE ALL UNUSED SURFACE MOUNTED CONDUIT. UNUSED CONDUITS STUBBING UP FROM FLOOR SHALL BE CUT FLUSH WITH FLOOR.
- 6. EXISTING EQUIPMENT NOT SHOWN ON THESE PLANS AND NOT REMOVED BY OTHER TRADES SHALL BE RECONNECTED TO PANELS. EXISTING ELECTRICAL OR MECHANICAL EQUIPMENT TO REMAIN THAT HAS TO BE DISCONNECTED FOR CONSTRUCTION SHALL BE REINSTALLED.
- 7. ELECTRICAL DRAWINGS DO NOT INDICATE ALL THE EXISTING INSTALLATIONS.
- 8. ALL EXISTING SWITCHES, RECEPTACLES, LIGHTING FIXTURES, TELEPHONE OUTLETS, ETC. THAT DO NOT FALL IN EXACT NEW LOCATION SHALL BE REMOVED. REPAIR GYPSUM BOARD AS REQUIRED. BLANK COVER PLATES ARE NOT ACCEPTABLE.
- 9. CONTRACTOR SHALL VISIT THE SITE PRIOR TO PREPARING HIS BID AND DETERMINE THE EXTENT OF EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE CHANGES AND ADDITIONS. ALL THE NECESSARY REROUTING, RELOCATING AND/OR REMOVAL OF EXISTING EQUIPMENT, WIRING ETC. SHALL BE INCLUDED IN THE SCOPE OF THIS WORK. ANY VARIATION FROM EXISTING CONDITIONS SHALL BE INCLUDED UNDER THIS CONTRACT.
- 10. ANY EXISTING WALL MOUNTED DEVICE SHOWN TO BE REMOVED SHALL HAVE GYPSUM BOARD PATCHED AND PAINTED TO MATCH WALL.

VERIFY ALL DEVICE FINISH COLORS WITH INTERIOR DESIGNER PRIOR TO ORDERING.

ELECTRICAL LEGEND PENDANT MOUNTED LIGHTING FIXTURE. LIGHTING FIXTURE - RECESSED WITH JUNCTION BOX AND FLEXIBLE METALLIC CONDUIT CONNECTION. LIGHTING FIXTURE, SAME AS ABOVE EXCEPT WITH EMERGENCY RECESSED LIGHTING FIXTURE RECESSED LIGHTING FIXTURE, SAME AS ABOVE EXCEPT WITH EMERGENCY BALLAST. LED TAPE LIGHT/LED COVE LIGHT LINEAR LIGHTING FIXTURE - GRID OR UNDER CABINET MOUNTED. SAME AS ABOVE EXCEPT WITH EMERGENCY BATTERY BALLAST. OOHLIGHTING FIXTURE - SURFACE OR WALL MOUNTED SAME AS ABOVE EXCEPT WITH EMERGENCY BATTERY BALLAST. LIGHTING FIXTURE - SURFACE OR PENDANT MOUNTED. SAME AS ABOVE EXCEPT WITH EMERGENCY BATTERY BALLAST. EXIT LIGHT - PROVIDE ARROWS AS INDICATED, SHADING DENOTES FACE OPERATION.

TOGGLE SWITCH - SINGLE POLE - QUIET TYPE 20 AMP, 120/277 VOLT

EMERGENCY LIGHTING FIXTURE. DO NOT SWITCH.

WITH MID-SIZED THERMOPLASTIC COVERPLATE - 46" MOUNTING HEIGHT,

ROOM LIGHTING CONTROL POINT MOUNT AT 46" A.F.G. 'X' DENOTES CONTROL POINT NUMBER. SEE LIGHTING CONTROL SCHEDULE FOR MORE INFORMATION.

DUPLEX RECEPTACLE — 20 AMP, 120 VOLT, 3 WIRE GROUNDING, HUBBELL NO. 5352W WITH NO. NPJ8W COVERPLATE, 18" MOUNTING HEIGHT, U.N.O.

DOUBLE DUPLEX RECEPTACLES - (2) TWO 20 AMP, 120 VOLT, 3 WIRE GROUNDING WITH WHITE MID-SIZED THERMOPLASTIC COVERPLATE, 18" MOUNTING HEIGHT, U.N.O.

DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 20 AMP, 120 VOLT, 3 WIRE GROUNDING. HUBBELL NO. GF5352W WITH NO. HPS1W COVERPLATE, 46" MOUNTING HEIGHT, U.N.O. EXTERIOR LOCATIONS SHALL BE MOUNTED

TEL/POWER FLOOR OUTLET. 2 COMPARTMENT FLOOR BOX, HUBBELL WITH (1) 20A DUPLEX OUTLET AND DATA PLATE. INSTALL 1" CONDUIT FROM BOX TO CEILING SPACE FOR FUTURE

SPECIAL PURPOSE RECEPTACLE COMPLETE WITH COVERPLATE. SEE FLOOR PLAN FOR COMPLETE CONFIGURATION.

DATA/TELEPHONE OUTLET - 4 INCH SQUARE JUNCTION BOX WITH

1-GANG EXTENSION RING, BLANK COVERPLATE - 18" MOUNTING HEIGHT, U.N.O. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE.

EXISTING LOW VOLTAGE OUTLET

CARD READER-COORDINATE REQUIREMENTS WITH SECURITY VENDOR. INSTALL BOX AND 3/4" C. TO ACCESSIBLE CEILING SPACE.

JUNCTION BOX FOR MODULAR FURNITURE POWER CONNECTION

DATA BOX FOR MODULAR FURNITURE CONNECTION - ROUTE 1 1/4"C W/ PULLSTRING TO ACCESSIBLE CEILING SPACE

JUNCTION BOX SIZE PER NEC.

MOTOR, FAN, PUMP OR AIR CONDITIONING UNIT CONNECTION PER NEC.

LIGHTING AND/OR POWER PANELBOARD.

WIRING IN CONDUIT, RUN CONCEALED ABOVE CEILING OR IN WALLS.

HOMERUN TO PANELBOARD - NUMBER OF ARROWS DENOTES QUANTITY OF CIRCUITS. CROSSMARKS INDICATE QUANTITY OF NO. 12 CONDUCTORS. RUNS VOID OF CROSSMARKS ARE 1/2 INCH CONDUIT, 3 NO. 12, U.N.O. DO NOT

COMBINE HOMERUNS EXCEPT AS SPECIFICALLY INDICATED ON THE PLAN.

DENOTES WEATHERPROOF WHILE-IN-USE - MOUNT RECEPTACLE VERTICALLY AND PROVIDE

DISCONNECT SWITCH, "3 60/40" DENOTES 3 POLE, 60 AMP, 40 AMP FUSES.

TAYMAC 71202 COVERPLATE, FOR SWITCHES PROVIDE TAYMAC 40110 COVERPLATE.

WIRING IN CONDUIT, RUN CONCEALED IN SLAB OR UNDERGROUND.

U.N.O. UNLESS NOTED OTHERWISE.

ABOVE FINISHED FLOOR.

DENOTES MOUNTED ABOVE COUNTER HEIGHT

DENOTES MOUNTED RECCESSED IN CEILING SOFFIT.

GREEN GROUND CONDUCTOR.

EMPTY CONDUIT WITH PULL WIRE/CORD. NIGHT LIGHT FIXTURE - DO NOT SWITCH

SURFACE MOUNTED

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DESIGN

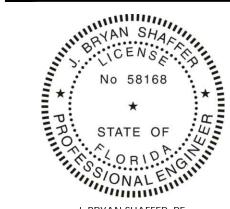
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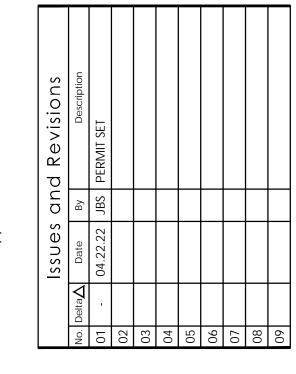
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CONTRACTOR SHALL CHECK & VERIFY ALL JOB SITE CONDITIONS.

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J. BRYAN SHAFFER, PE FL #58168



Project Number: 22.0017.00

Drawn By:

Project Name:

Checked By: JBS

1649 ATLANTIC

OFFICE RENOVATION

JACKSONVILLE, FL Drawing Name:

ELECTRICAL NOTES, LEGEND

AND SCHEDULE

				LIGHTII	NG COI	NTROL SCHE	DULE - 1ST	FLOOR					
ROOM NUMBER	ROOM NAME	OCCUPANCY	SENSOR MOUNTING	OCCUPANCY/VACANCY	KEYED	ZONE NUMBER	ZONE	SWICHED/DIMMED	SWITCH TYPE	DIMMER	CONTROL POINT	ZONES	KEYED CONTROL
100/200	STAIRS	LV	CEILING	OCCUPANCY		1	ALLLTS	S	M		1 2	1	
101	MAIN ENTRY	LV	CEILING	OCCUPANCY		1	ALL LTS	S	M		1	1	
			SELENTS	3333711121		1	PENDANT	D	D	UNV	1	1, 2	
102	WAITING	DLM	CEILING	OCCUPANCY		2	DOWNLIGHTS	D	D	0-10V	1	Δ, Δ	
103	CONFERENCE	DLM	CEILING	VACANCY		1 2 3	PENDANTS DOWNLIGHTS COVE	D D D	D D	UNV 0-10V 0-10V	1	1	
104	OPEN OFFICE	LV	CEILING	OCCUPANCY		1	PUCK ALL LTS	D S	D M	UNV	1	1	
105A, 105B	OFFICE	WS	WALL	VACANCY		1	ALL LTS	S	WS		1	1	
106	BREAK ROOM	DLM	CEILING	OCCUPANCY		1 2	CYLINDERS TABLE PENDANTS		D D	0-10V UNV	1	1,2,3	
107, 108, 109	CORRIDORS	LV	CEILING	OCCUPANCY		1	TAPE ALL LIGHTS	D S	D M	UNV	1 2	1	
110, 111	CLOSETS	WS	WALL	VACANCY		1	ALL LTS	S	WS		1	1	
112	FITNESS	LV	WALL	VACANCY		1	ALL LTS	S	M		1	1	
113, 114, 115	RESTROOMS	WS	WALL	VACANCY		1	ALL LTS	S	WS		1	1	
116	MECH/ELEC CLOSET	M	WALL	N/A		1	ALL LTS	S	Т		1	1	

<u>LEGEND</u>

LV - 24V DUAL TECHNOLOGY SENSOR WITH POWER PACKS AND ACCESSORIES AS REQUIRED **DLM** - DLM DUAL TECHNOLOGY SENSORS WITH ROOM CONTROLLERS AND ACCESSORIES AS REQUIRED **WS** - DUAL TECHNOLOGY WALL SWITCH SENSOR (LINE VOLTAGE)

M - Manual Control

SWITCHED / DIMMED S - SWITCHED

D - DIMMED

SWITCH TYPE T - SINGLE POLE TOGGLE

F - FAN CONTROLLER **D** - DIMMER

M - MOMENTARY

DIMMER TYPE

10 - 0-10V

UNV - UNIVERSAL

T3 - 3/4 WAY TOGGLE WS - WALL SWITCH SENSOR

GENERAL NOTES

A. PROVIDE LINE VOLTAGE OR 24V LIGHTING CONTROL SYSTEMS AS INDICATED, BY WATTSTOPPER OR EQUIVALENT. PROVIDE MANUFACTURER CREATED LIGHTING CONTROL DRAWINGS FOR APPROVAL AS PART OF THE LIGHTING SUBMITTAL PACKAGE.

B. LUMINAIRES HAVING 0-10V DIMMING DRIVERS WITH 0-10V DIMMING CONTROL REQUIRE A SEPARATE 0-10V DIMMING CABLE, SUCH AS "30MIL-PVC-JACKETED 16/2 CU - PUR/GRY - TYPE TFN" CONTROL CABLE, RUN FROM THE CONTROL DEVICE TO THE LUMINAIRE. WHERE MC CABLE IS USED, COMBINATION POWER & SIGNAL/CONTROL CABLE HAVING INTEGRAL "30MIL-PVC-JACKETED 16/2 CU - PUR/GRY - TYPE TFN" CABLE, EQUIVALENT TO SOUTHWIRE "MC-PCS DUO" PRODUCT, MAY BE USED.

C. CEILING FANS ARE CONTROLLED BY A SEPARATE FAN CONTROL SWITCH. INSTALL FAN CONTROL SWITCH AFTER INSTALLATION OF ALL ROOM LIGHTING CONTROLS. INSTALL AND CONNECT SUCH THAT LIGHTING CONTROLS ALSO SHUT DOWN POWER TO CEILING FANS.

D. ROOMS HAVING ONLY WALL SWITCH SENSORS OR WALL-MOUNTED TOGGLE SWITCHES HAVE ALL CONTROL REQUIREMENTS INDICATED ON THE FLOOR PLANS AND ARE NOT REFERENCED IN THIS SCHEDULE.

E. PROVIDE LIGHTING CONTROLS PER CODE IN ALL AREAS. IF LIGHTING CONTROLS FOR ANY SPACE ARE NOT SHOWN ON SCHEDULE OR PLANS, PROVIDE LIGHTING CONTROLS PER INDICATED INTENT OF OVERALL BUILDING CONTROL SCHEME DESIGN AND PER CODE.

F. VERIFY REQUIRED DIMMING TECHNOLOGY FOR EACH DIMMED LUMINAIRE OR LAMP TYPE PRIOR TO ORDERING OF DIMMING COMPONENTS AND INSTALLATION. ENSURE THAT DIMMING TECHNOLOGY APPLIED MATCHES REQUIREMENTS OF LUMINAIRES AND LAMPS.

G. IN ROOMS HAVING CEILING FANS, INSTALL OCCUPANCY SENSORS WALL-MOUNTED AT 10' AFF OR 1-FOOT BELOW FINISHED CEILING, WHICHEVER IS LOWER.

H. INTERLOCK ALL CORRIDOR LIGHITNG CONTROLS WITH FIRE ALARM SUCH THAT LIGHTING ALONG ALL PATHS OF EGRESS ARE TURNED "ON" DURING FIRE ALARM CONDITION.

KEYED NOTES

1. TBD

ROOM NAME	OCCUPANCY	SENSOR MOUNTING	OCCUPANCY/VACANCY	KEYED	ZONE NUMBER	ZONE	SWICHED/DIMMED	SWITCH TYPE	DIMMER	CONTROL POINT	ZONES	KEYED CONTRO
RESTROOMS	Ws	WALL	VACANCY		1	ALL LTS	S	WS		1	1	
CONFERENCE	DLM	CEILING	VACANCY		1	ALL LTS	D	D	0-10V	1	1	
CORRIDORS	LV	CEILING	OCCUPANCY		1 2	DOWN/PENDANT TAPE	D D	D D	0-10V 0-10V	1 2	1 1, 2	
CLOSETS	WS	WALL	VACANCY		1	ALL LTS	S	WS		1	1	
OPEN OFFICE	LV	CEILING	OCCUPANCY		1	DOWNLIGHTS	D	D	0-10V	1 2	1	
OFFICE	WS	WALL	VACANCY		1	ALL LTS	S	WS		1	1	
	RESTROOMS CONFERENCE CORRIDORS CLOSETS OPEN OFFICE	RESTROOMS WS CONFERENCE DLM CORRIDORS LV CLOSETS WS OPEN OFFICE LV	RESTROOMS WS WALL CONFERENCE DLM CEILING CORRIDORS LV CEILING CLOSETS WS WALL OPEN OFFICE LV CEILING	RESTROOMS WS WALL VACANCY CONFERENCE DLM CEILING VACANCY CORRIDORS LV CEILING OCCUPANCY CLOSETS WS WALL VACANCY OPEN OFFICE LV CEILING OCCUPANCY	RESTROOMS WS WALL VACANCY CONFERENCE DLM CEILING VACANCY CORRIDORS LV CEILING OCCUPANCY CLOSETS WS WALL VACANCY OPEN OFFICE LV CEILING OCCUPANCY	RESTROOMS WS WALL VACANCY CONFERENCE DLM CEILING VACANCY CORRIDORS LV CEILING OCCUPANCY CLOSETS WS WALL VACANCY 1 1 1 1 1 1 1 1 1 1 1 1 1	RESTROOMS WS WALL VACANCY 1 ALL LTS CONFERENCE DLM CEILING VACANCY 1 ALL LTS 1 ALL LTS TAPE CLOSETS WS WALL VACANCY 1 DOWN/PENDANT CLOSETS WS WALL VACANCY 1 ALL LTS 1 DOWN/PENDANT VACANCY 1 ALL LTS 1 DOWN/PENDANT VACANCY 1 ALL LTS 1 ALL LTS 1 ALL LTS 1 ALL LTS 1 ALL LTS	RESTROOMS WS WALL VACANCY 1 ALL LTS S CONFERENCE DLM CEILING VACANCY 1 ALL LTS D 1 ALL LTS D 1 ALL LTS D 1 DOWN/PENDANT D 2 TAPE D CLOSETS WS WALL VACANCY 1 ALL LTS S 1 DOWN/PENDANT D 1 ALL LTS S 1 DOWN/PENDANT D 1 ALL LTS S 1 DOWNLIGHTS D 1 DOWNLIGHTS D 1 ALL LTS S	RESTROOMS WS WALL VACANCY 1 ALL LTS S WS CONFERENCE DLM CEILING VACANCY 1 ALL LTS D D D CORRIDORS LV CEILING OCCUPANCY 1 DOWN/PENDANT D D CLOSETS WS WALL VACANCY 1 ALL LTS S WS TAPE D D D TOWNS TOWNS	RESTROOMS WS WALL VACANCY 1 ALL LTS S WS CONFERENCE DLM CEILING VACANCY 1 ALL LTS D D O-10V CORRIDORS LV CEILING OCCUPANCY 2 TAPE D D D O-10V CLOSETS WS WALL VACANCY 1 ALL LTS S WS CLOSETS LV CEILING OCCUPANCY 1 DOWN/PENDANT D D O-10V 1 ALL LTS S WS OPEN OFFICE LV CEILING OCCUPANCY 1 DOWNLIGHTS D D O-10V 1 ALL LTS S WS	RESTROOMS WS WALL VACANCY 1 ALL LTS S WS 1 1	RESTROOMS WS WALL VACANCY

LV - 24V DUAL TECHNOLOGY SENSOR WITH POWER PACKS AND ACCESSORIES AS REQUIRED **DLM** - DLM DUAL TECHNOLOGY SENSORS WITH ROOM CONTROLLERS AND ACCESSORIES AS REQUIRED

G. IN ROOMS HAVING CEILING FANS, INSTALL OCCUPANCY SENSORS WALL-MOUNTED AT 10' AFF OR 1-FOOT BELOW FINISHED CEILING, WHICHEVER IS LOWER.

H. INTERLOCK ALL CORRIDOR LIGHITNG CONTROLS WITH FIRE ALARM SUCH THAT LIGHTING ALONG ALL PATHS OF EGRESS ARE TURNED "ON" DURING FIRE ALARM CONDITION.

M - MANUAL CONTROL

GENERAL NOTES

KEYED NOTES

1. TBD

WS - DUAL TECHNOLOGY WALL SWITCH SENSOR (LINE VOLTAGE)

WHERE MC CABLE IS USED, COMBINATION POWER & SIGNAL/CONTROL CABLE HAVING INTEGRAL "30MIL-PVC-JACKETED 16/2 CU - PUR/GRY - TYPE TFN" CABLE, EQUIVALENT TO SOUTHWIRE "MC-PCS DUO" PRODUCT, MAY BE USED.

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SWITCHED / DIMMED S - SWITCHED T - SINGLE POLE TOGGLE

D - DIMMED

F - FAN CONTROLLER **D** - DIMMER

T3 - 3/4 WAY TOGGLE

M - MOMENTARY WS - WALL SWITCH SENSOR

UNV - UNIVERSAL

10 - 0-10V

DESIGN, INC.

CONDITIONS.

J. BRYAN SHAFFER, PE

interiors

architecture

1520 Prudential Drive | Jacksonville, FL 32207 904.353.5900 [o] 904.353.5968 [f] Email info@g4designinc.com | AA26001912

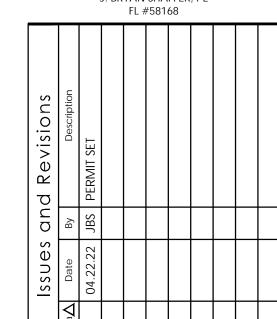
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CONTRACTOR SHALL CHECK & VERIFY ALL JOB SITE

NOTED IS FOR FULL "ANSI-D" SIZE PRINTS.

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Project Numb	er: 22.0017.00
Drawn By:	MEM
Checked By:	JBS

Project Name:

1649 ATLANTIC OFFICE RENOVATION

JACKSONVILLE, FL

Drawing Name:

LIGHTING CONTROL SCHEDULE

•			
LOAD CALCULATIC	N - PAN	EL P1A	
	PHASE A	PHASE B	PHASE C
PANEL P1B	13.9 KVA	0 KVA	16.7 KVA
PANEL P2A	33.5 KVA	20.6 KVA	31.3 KVA
MECHANICAL HVAC LOAD	11.0 KVA	11.0 KVA	0.0 KVA
WATER HEATER	5.0 KVA	5.0 KVA	5.0 KVA
MISC	2.9 KVA	2.9 KVA	2.9 KVA
TOTAL	66.3 KVA	39.5 KVA	55.9 KVA
AMPS	553 AMPS	329 AMPS	466 AMPS
ELECTRICAL SERVICE	600 AMPS	600 AMPS	600 AMPS

MAINTAIN EXISTING CIRCUITS TO PARKING LOT AND EXTERIOR LIGHTING FIXTURES. RECONNECT EXISTING CIRCUIT TO NEW PANEL.

PANEL SCHEDULE NOTES:

⊗ REFERENCE NOTE ON DRAWING

- 1. CIRCUITS MAY BE GANGED TOGETHER WITH THE WIRE SIZES INDICATED FOR UP TO THREE CURRENT CARRYING CONDUCTORS IN A CONDUIT. WHEN THE NUMBER OF CURRENT CARRYING CONDUCTORS EXCEEDS THREE, WIRES SHALL BE UPSIZED AND DERATED IN ACCORDANCE WITH NEC TABLE 310.15(B)(2)(a). CONDUIT SIZES SHALL BE ADJUSTED TO COMPLY WITH NEC TABLES FOR CONDUCTOR FILL BASED ON CONDUIT TYPE.
- 2. ROUTE THROUGH EXTERIOR LIGHTING CONTROL.
- 3. RE-CONNECT EXISTING PARKING LOT LIGHTING CIRCUITS TO NEW PANEL.

	MOUNTING:	SURFACE		D/	<u> </u>	FI	P1	ΙΔ		VOLTS & PHASE:	240/120V, 3 PHASE, 4 WIRE	 E
	STYLE:	SQ. D NQ		1 /	√ 1 V	ЦЦ		L		AMPS:	600)
	ENCLOSURE TYPE:	NEMA 3R								M.C.B. OR M.L.O:	MCE	3
										AIC RATING	42,000	4
CIR			BRE	AKER	LOAD	PHAS	ELOAD	BREA	4KER			CIR
NUM	DESCRIPTION	WIRE/CONDUIT	SIZE	POLE	KVA	АВС	KVA	POLE	SIZE	WIRE/CONDUIT	DESCRIPTION	NUM
1	AHU-1	#6, #10G, 1"	60	2	5.5	Х	5.5	2	60	#6, #10G, 1"	AHU-2	2
3)				5.5	Х	5.5)	4
5	SPACE)	16.7	2	200	(3)#3/0, #6G, 2"	PANEL P1B	6
7	SPACE					х	13.9)	8
9	EWH	#8, #10G, 1"	50	3	5.0	Х					HIGH LEG	10
11)				5.0)	(1	20		SPARE	12
13)				5.0	х		1	20		SPARE	14
15	HIGH LEG					Х		3	60		SPD	16
17	SPACE)	()	18
19	PANEL P2A	- 2 CETC.	400	3	33.5	Х)	20
21)	2 SETS: -(4)#3/0,#3G,2"C			20.6	Х					HIGH LEG	22
23)	(1)113/0,1130,2			31.3)	(SPACE	24
25	SPACE					Х					SPACE	26
27	HIGH LEG					Х					HIGH LEG	28
29	SPACE					>	(SPACE	30
31						Х						32
33						Х						34
35)						36
37						Х						38
39						Х						40
41						,						42
	PANEL LOAD	KVA	AMPS	5						NOTES:		
	PHASE A	63.4	528							1		
	PHASE B	36.6	305							+ PROVIDE GFCI I	PROTECTION	
	PHASE C	53	441	_			**CA	UTION	-PHAS	E B HAS 208V HIG	H LEG**	
	TOTAL	153										

	MOUNTING:	SURFACE		P	N 2	EL	P2	Δ		VOLTS & PHASE:	240/120V, 3 PHASE, 4 WIRI	E
	STYLE:	SQ. D NQ		. ,	\		1 2	_/ \		AMPS:	400)
	ENCLOSURE TYPE:	NEMA 1								M.C.B. OR M.L.O:		
	T		1			1				AIC RATING	42,000	4
CIR			BRE			PHASI			AKER			CIR
NUM	DESCRIPTION	WIRE/CONDUIT	SIZE	POLE	KVA	АВС	KVA	POLE	SIZE	WIRE/CONDUIT	DESCRIPTION	NUM
1	AHU-3	#6, #10G, 1"	60	2	5.5	Х					SPACE	2
3)				5.5	Х					HIGH LEG	4
5	HP-3	#8, #10G, 3/4"	50	2	3.1	Х	10.9	2	150	(3)#1/0, #6G, 2"	PANEL P2B	6
7)				3.1	Х	10.3)	8
9	AHU-4	#6, #10G, 1"	60	2	5.5	Х					HIGH LEG	10
11)				5.5	Х					SPACE	12
13	HP-4	#8, #10G, 3/4"	50	2	3.1	Х					SPACE	14
15)				3.1	Х					HIGH LEG	16
17	AHU-5	#6, #10G, 1"	60	2	5.3	х					SPACE	18
19)				5.3	х					SPACE	20
21	HP-5	#8, #10G, 3/4"	40	2	2.3	Х					HIGH LEG	22
23)				2.3	х					SPACE	24
25	HP-1	#8, #10G, 3/4"	50	2	3.1	х					SPACE	26
27)				3.1	Х					HIGH LEG	28
29	HP-2	#8, #10G, 3/4"	50	2	3.1	х					SPACE	30
31)				3.1	х					SPACE	32
33	HIGH LEG					Х					HIGH LEG	34
35	SPACE					х					SPACE	36
37	SPACE					Х					SPACE	38
39	DWU/DCU-1	#10, #10G, 3/4"	25	2	1.1	Х					HIGH LEG	40
41)				1.1	Х					SPACE	42
	1,	'	1				1			1		<u>- I </u>
	PANEL LOAD	KVA	AMPS	;						NOTES:		
	PHASE A	33.5	279							1		
	PHASE B	20.6	171							+ PROVIDE GFCI I	PROTECTION	
	PHASE C	31.3	260				**CA	UTION	-PHAS	E B HAS 208V HIG	H LEG**	
	TOTAL	85.4		•								

	MOUNTING: STYLE:	SURFACE SQ. D NQ		P	٩N	ΙE	L	P1	LB		VOLTS & PHASE: AMPS:	240/120V, 1 PHASE, 3 WIRE 225	
	ENCLOSURE TYPE:	NEMA 1									M.C.B. OR M.L.O:	MLO	
	ENCLOSORE TIPE.	NEIVIAI									AIC RATING	42,000A	
CIR			BRE	AKER	IOAD	РН	ΔSF	LOAD	BREA	AK FR	Activities	+2,000A	CIR
NUM	DESCRIPTION	WIRE/CONDUIT		POLE		1	A	KVA			WIRE/CONDUIT	DESCRIPTION	NUM
1	SIGN	#12, #12G, 1/2"	20	1	1.0	Х		0.2	1			REC-113	2
3	EF'S	#12, #12G, 1/2"	20	1	0.3		Х	0.2	1			REC-114	4
5	REC-TV'S	#12, #12G, 1/2"	20	1	0.2	x		0.8	1			REC-108 COPIER	6
7	REC-101, 102, 108	#12, #12G, 1/2"	20	1	0.9		Х	0.5	1			REC-109, 115, 116	8
9	REC-103	#12, #12G, 1/2"	20	1	0.7	x		0.4	1			ACCESS CONTROL	10
11	REC-103 COUNTER	#12, #12G, 1/2"	20	1	0.5		Χ	0.6	1			LTG-100-102, 116, 200	12
13	REC-103 ICE MAKER	#12, #12G, 1/2"	20	1	1.0	x		0.9	1			LTG-105-112	14
15	REC-103 BEV CTR	#12, #12G, 1/2"	20	1	0.8	1	Χ	1.5	1	20	#12, #12G, 1/2"	LTG-103, 104	16
17	REC-103 AV	#12, #12G, 1/2"	20	1	1.0	х		0.1	1	20	#12, #12G, 1/2"	LTG-EXTERIOR	18
19	HW RECIRC PUMP	#12, #12G, 1/2"	20	1	0.1		Χ	1.5	1	20	#12, #12G, 1/2"	DISHWASHER	20
21	REC-104, 105	#12, #12G, 1/2"	20	1	1.1	x		1.5	1	20	#12, #12G, 1/2"	REC-COFFEE 103	22
23	REC-105	#12, #12G, 1/2"	20	1	1.1		Х		1	20		SPARE	24
25	REC-106 REF.	#12, #12G, 1/2"	20	1	0.8] x			1	20		SPARE	26
27	REC-106 COFFEE	#12, #12G, 1/2"	20	1	1.5		Х	0.5	1	20	#12, #12G, 1/2"	FURNITURE 104	28
29	REC-106 MICROWAVE	#12, #12G, 1/2"	20	1	1.5	х		0.5	1	20	#12, #12G, 1/2"	FURNITURE 104	30
31	REC-106	#12, #12G, 1/2"	20	1	0.9		Χ					SPACE	32
33	REC-107	#12, #12G, 1/2"	20	1	0.7	x						SPACE	34
35	REC-112	#12, #12G, 1/2"	20	1	0.5		Χ					SPACE	36
37	REC-112 TREADMILL	#12, #12G, 1/2"	20	1	1.5	Х		1.0	1	20	#10, #10G, 1"	EXISTING EXTERIOR LIGHTING	38
39	REC-112 CARDIO	#12, #12G, 1/2"	20	1	1.5		Χ	1.0	2	20	#10, #10G, 1"	EXISTING PARKING LIGHTING	40
41	REC-112 EWC	#12, #12G, 1/2"	20	1	0.8	Х		1.0)	42
	PANEL LOAD	KVA	AMPS	5							NOTES:		
	PHASE C	16.7	139								1		
	PHASE A	13.9	115										
	TOTAL	30.6	127	@ 24	OV. 1 I	PHA	 SE						

	MOUNTING:	SURFACE		P	ΔN	F	I	P 2	R		VOLTS & PHASE:	240/120V, 1 PHASE, 3 WIRE	
	STYLE:	SQ. D NQ		. ,	\		_	1 4			AMPS:	225	5
	ENCLOSURE TYPE:	NEMA 1									M.C.B. OR M.L.O:	MLO)
											AIC RATING	42,000 <i>A</i>	١
CIR			BRE	AKER	LOAD	PHA	SE	LOAD	BREA	AKER			CIR
NUM	DESCRIPTION	WIRE/CONDUIT	SIZE	POLE	KVA	С	Α	KVA	POLE	SIZE	WIRE/CONDUIT	DESCRIPTION	NUN
1	EF'S	#12, #12G, 1/2"	20	1	0.3	х		0.9	1	20	#12, #12G, 1/2"	LTG-201-209, 212, 213	2
3	REC-TV'S	#12, #12G, 1/2"	20	1	0.2		х	1.5	1	20	#12, #12G, 1/2"	LTG-210, 211	4
5	REC-200 - 202, 209	#12, #12G, 1/2"	20	1	0.7	х		0.6	1	20	#12, #12G, 1/2"	LTG-214-218	6
7	TELEPHONE BOARD	#12, #12G, 1/2"	20	1	0.4		х		1	20		SPARE	8
9	DATA RACK	#12, #12G, 1/2"	20	1	0.5	x			1	20		SPARE	10
11	REC-203	#12, #12G, 1/2"	20	1	0.5		x		1	20		SPARE	12
13	REC-204, 205, 207, 208	#12, #12G, 1/2"	20	1	0.9	x			1	20		SPARE	14
1 5	REC-204 UC REF.	#12, #12G, 1/2"	20	1	0.8		х[1	20		SPARE	16
17	REC-204 COFFEE	#12, #12G, 1/2"	20	1	1.5	x			1	20		SPARE	18
19	REC-211 COPIER	#12, #12G, 1/2"	20	1	0.8		x	0.4	1	20	#12, #12G, 1/2"	REC-ROOF	20
21	REC-211	#12, #12G, 1/2"	20	1	0.9	x						SPACE	22
23	REC-212, 213	#12, #12G, 1/2"	20	1	1.1		x					SPACE	24
25	REC-214, 215	#12, #12G, 1/2"	20	1	1.1	x						SPACE	26
27	REC-216, 217	#12, #12G, 1/2"	20	1	1.1		$_{\rm X}$					SPACE	28
29	REC-218	#12, #12G, 1/2"	20	1	0.5	x	Ī					SPACE	30
31	REC-210	#12, #12G, 1/2"	20	1	0.5		x					SPACE	32
33	FURNITURE 210	#12, #12G, 1/2"	20	1	1.5	x	Ī					SPACE	34
35	FURNITURE 210	#12, #12G, 1/2"	20	1	1.5	1	x					SPACE	36
37	FURNITURE 211	#12, #12G, 1/2"	20	1	1.5	x	j					SPACE	38
39	FURNITURE 211	#12, #12G, 1/2"	20	1	1.5		x					SPACE	40
41	SPACE					x						SPACE	42
			•		•		•						•
	PANEL LOAD	KVA	AMPS	5							NOTES:		
	PHASE C	10.9	90								1		
	PHASE A	10.3	85										
	TOTAL	21.2	88	@ 24	0V, 1 F	PHAS	 E						



DESIGN

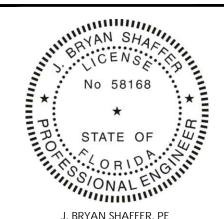
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J. BRYAN SHAFFER, FL #58168

				FL #	[‡] 581	68				
Issues and Revisions	Description	JBS PERMIT SET								
an	By	JBS								
Issues	Date	04.22.22								
	No. Delta	-								
	No.	01	02	03	04	05	90	07	80	60

VESTCOP,

Project Number: 22.0017.00

Drawn By: MEM

Checked By: JBS

Project Name:

1649 ATLANTIC

OFFICE RENOVATION

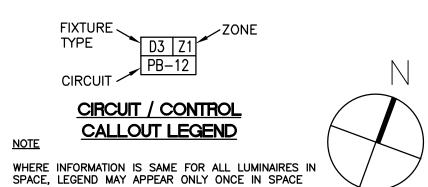
JACKSONVILLE, FL

Drawing Name:

ELECTRICAL PANEL

SCHEDULES





VERSUS ADJACENT TO EACH LUMINAIRE.

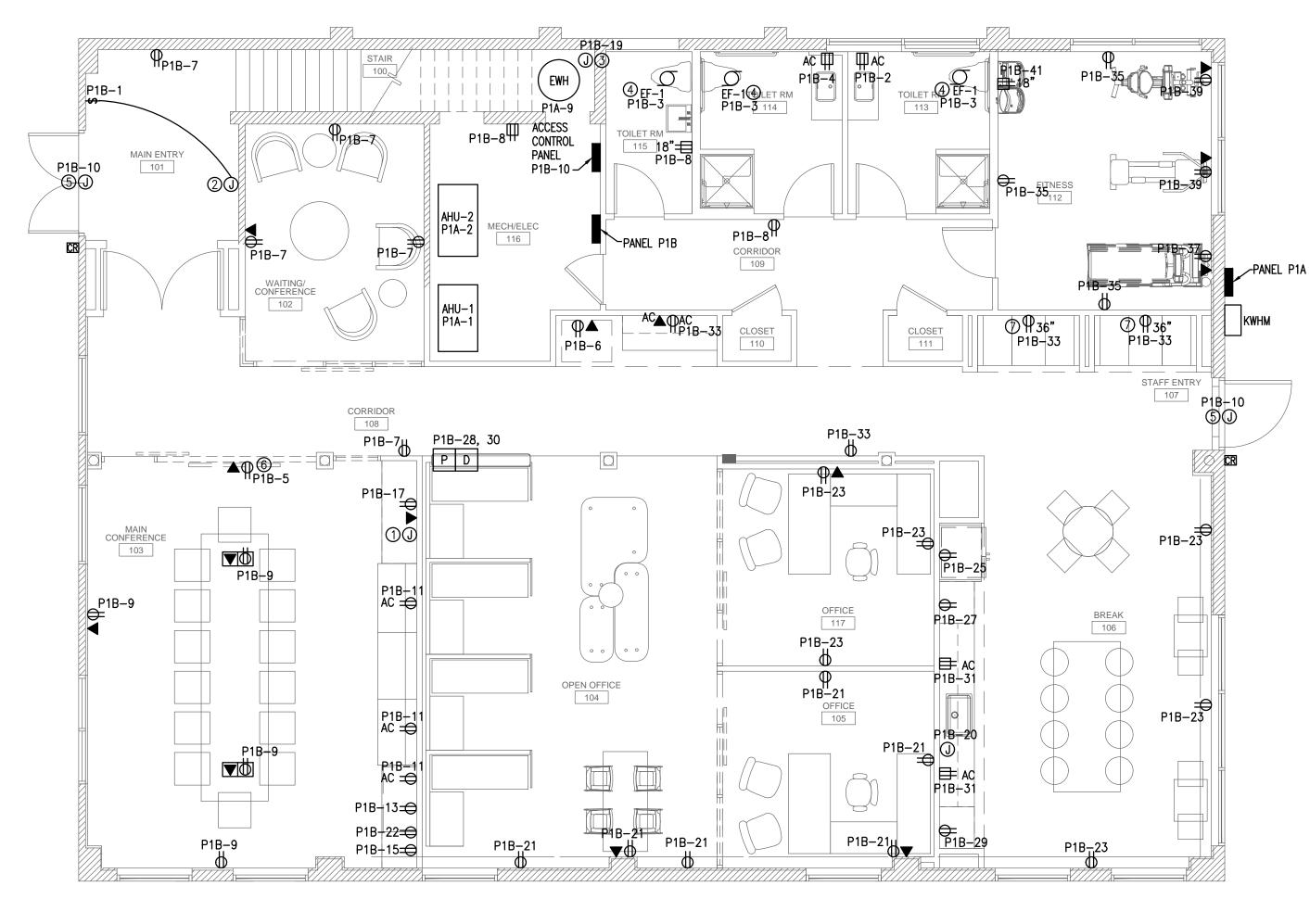
GENERAL NOTES!

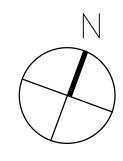
LECTRICAL LIGHTING PLAN-1ST FLR

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

PLAN NOTES:

- 1. PROVIDE CONSTANT HOT CONDUCTORS TO EXIT SIGNS AND EMERGENCY ONLY FIXTURES.
- 2. PROVIDE SWITCHED AND CONSTANT HOT CONDUCTORS TO NORMAL LIGHTING FIXTURES WITH EMERGENCY BALLASTS.
- 3. INSTALL A TBAR LED EMERGENCY BATTERY #TBEM-DIM-12-64-UNV TO POWER EMERGENCY FIXTURES. PROVIDE ONE BATTERY FOR EACH SPACE AND LOCATE IN ACCESSIBLE BUT CONCEALED CEILING SPACE.
- 4. INSTALL A JUNO #TL602E-10W-120-12AC ELECTRONIC TRANSFORMER IN AN ACCESSIBLE BUT HIDDEN LOCATION. VERIFY LOCATION AND FINISH WITH INTERIOR
- 5. EXISTING EXTERIOR FIXTURE TO REMAIN. RECONNECT TO CIRCUIT P1B-38 W/ #12 WIRE IN 1/2" CONDUIT.





ELECTRICAL POWER/SYSTEMS PLAN-1ST FLR SCALE: 3/16"=1'-0"

PLAN NOTES:

- 1. INSTALL A 4"X4" J-BOX WITH 2"C TO CEILING SPACE.
- 2. J-BOX FOR CONNECTION TO SIGN. VERIFY EXACT MOUNTING LOCATION WITH INTERIOR DESIGN DRAWINGS. VERIFY EXACT REQUIREMENTS WITH SIGN INSTALLER.
- 3. J-BOX FOR HOT WATER RECIRCULATION PUMP. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND CONTRACTOR.
- 4. FAN CONTROLLED BY MOTION SENSOR. SENSOR PROVIDED BY MECHANICAL
- CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 5. J-BOX FOR POWER TO ACCESS CONTROL SYSTEM. COORDINATE WITH SYSTEM
- INSTALLER FOR EXACT REQUIREMENTS.
- 6. DEVICES FOR WALL MOUNTED TV. SEE ID DRAWINGS FOR MOUNTING HEIGHT.
- 7. RECEPTACLE TO BE MOUNTED HORIZONTALLY. VERIFY EXACT MOUNTING REQUIREMENTS WITH INTERIOR DESIGNER PRIOR TO INSTALLATION.

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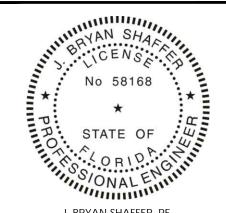
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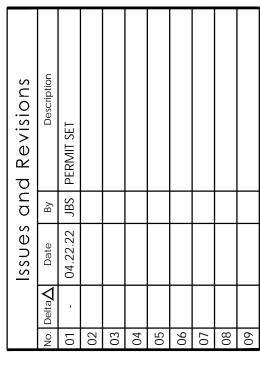
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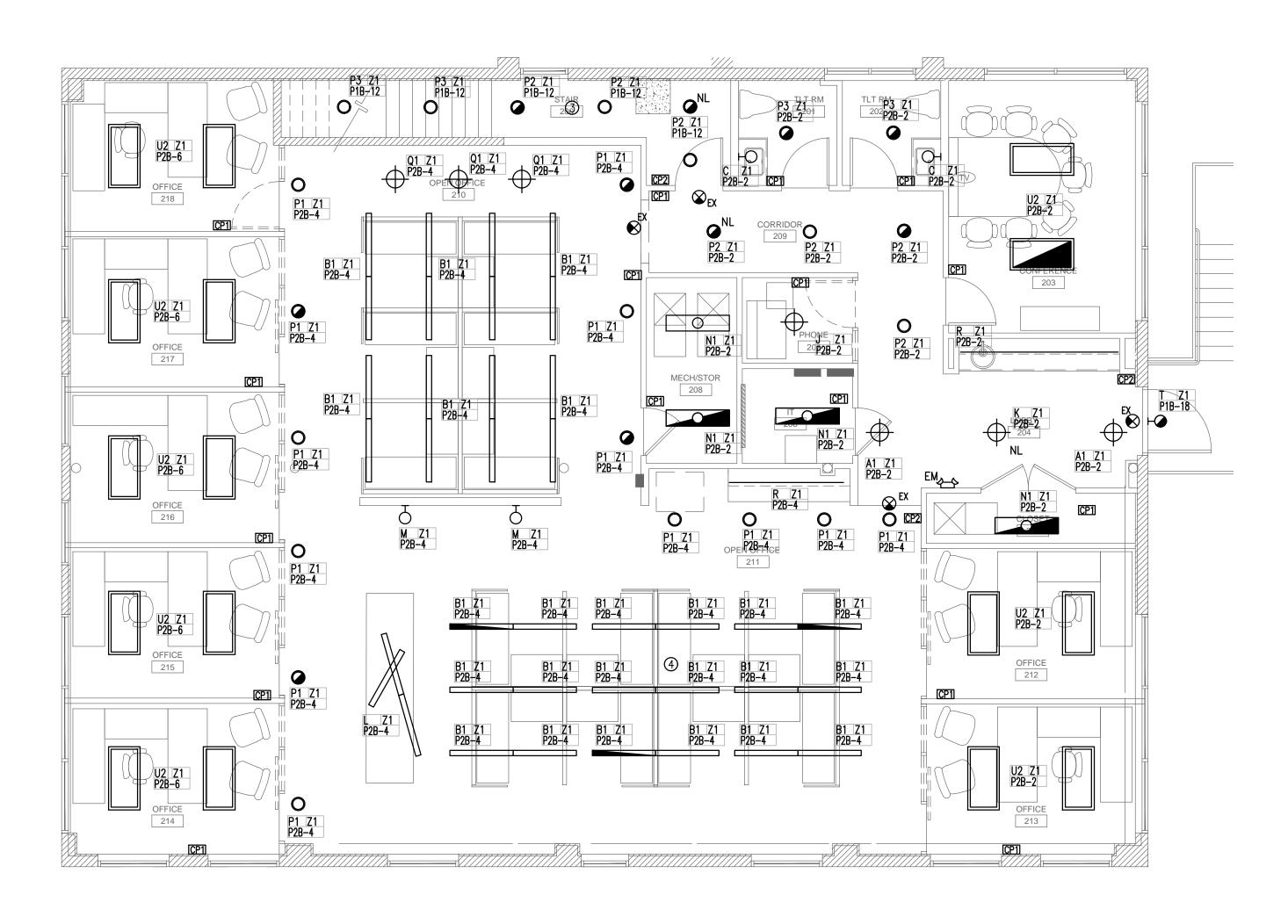
J. BRYAN SHAFFER, PE FL #58168



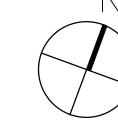
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Drawing Name:

ELECTRICAL PLANS 1ST FLOOR







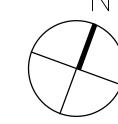
<u>CIRCUIT / CONTROL</u>

CALLOUT LEGEND

WHERE INFORMATION IS SAME FOR ALL LUMINAIRES IN SPACE, LEGEND MAY APPEAR ONLY ONCE IN SPACE VERSUS ADJACENT TO EACH LUMINAIRE.

- 1. PROVIDE CONSTANT HOT CONDUCTORS TO EXIT SIGNS AND EMERGENCY ONLY FIXTURES.

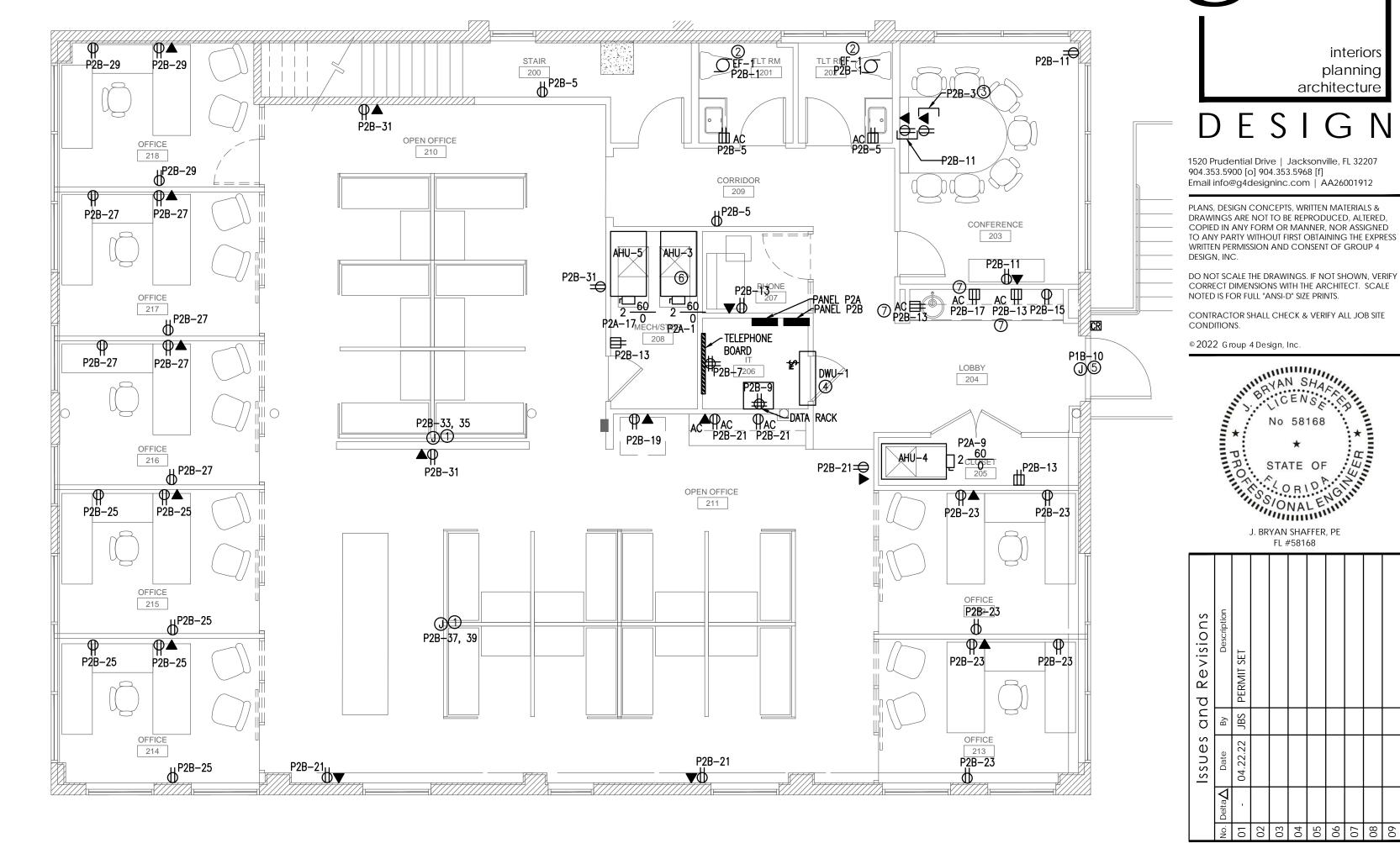


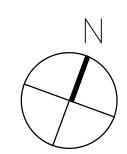




PLAN NOTES:

- 2. PROVIDE SWITCHED AND CONSTANT HOT CONDUCTORS TO NORMAL LIGHTING FIXTURES WITH EMERGENCY BALLASTS.
- 3. CONNECT TO STAIR LIGHTING ON LOWER LEVEL.
- 4. INSTALL A TBAR LED EMERGENCY BATTERY #TBEM-DIM-12-64-UNV TO POWER EMERGENCY FIXTURES. PROVIDE ONE BATTERY FOR EACH SPACE AND LOCATE IN ACCESSIBLE BUT CONCEALED CEILING SPACE.





ELECTRICAL POWER/SYSTEMS PLAN-2ND FLR SCALE: 3/16"=1'-0"

PLAN NOTES:

- 1. INSTALL 2 CHANNEL WHITE POWER POLE FOR CONNECTION TO MODULAR FURNITURE.
- 2. FAN CONTROLLED BY MOTION SENSOR. SENSOR PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 3. DEVICES FOR WALL MOUNTED TV. SEE ID DRAWINGS FOR MOUNTING HEIGHT.
- 4. INDOOR UNIT IS POWERED THROUGH OUTDOOR UNIT. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 5. J-BOX FOR POWER TO ACCESS CONTROL SYSTEM. COORDINATE WITH SYSTEM
- INSTALLER FOR EXACT REQUIREMENTS.
- 6. INSTALL STAND ALONE DUCT SMOKE DETECTOR AND SHUTDOWN RELAY. PROVIDE VISUAL ANNUNCIATOR IN VISIBLE LOCATION.
- 7. RECEPTACLE TO BE MOUNTED HORIZONTALLY. VERIFY EXACT MOUNTING REQUIREMENTS WITH INTERIOR DESIGNER.

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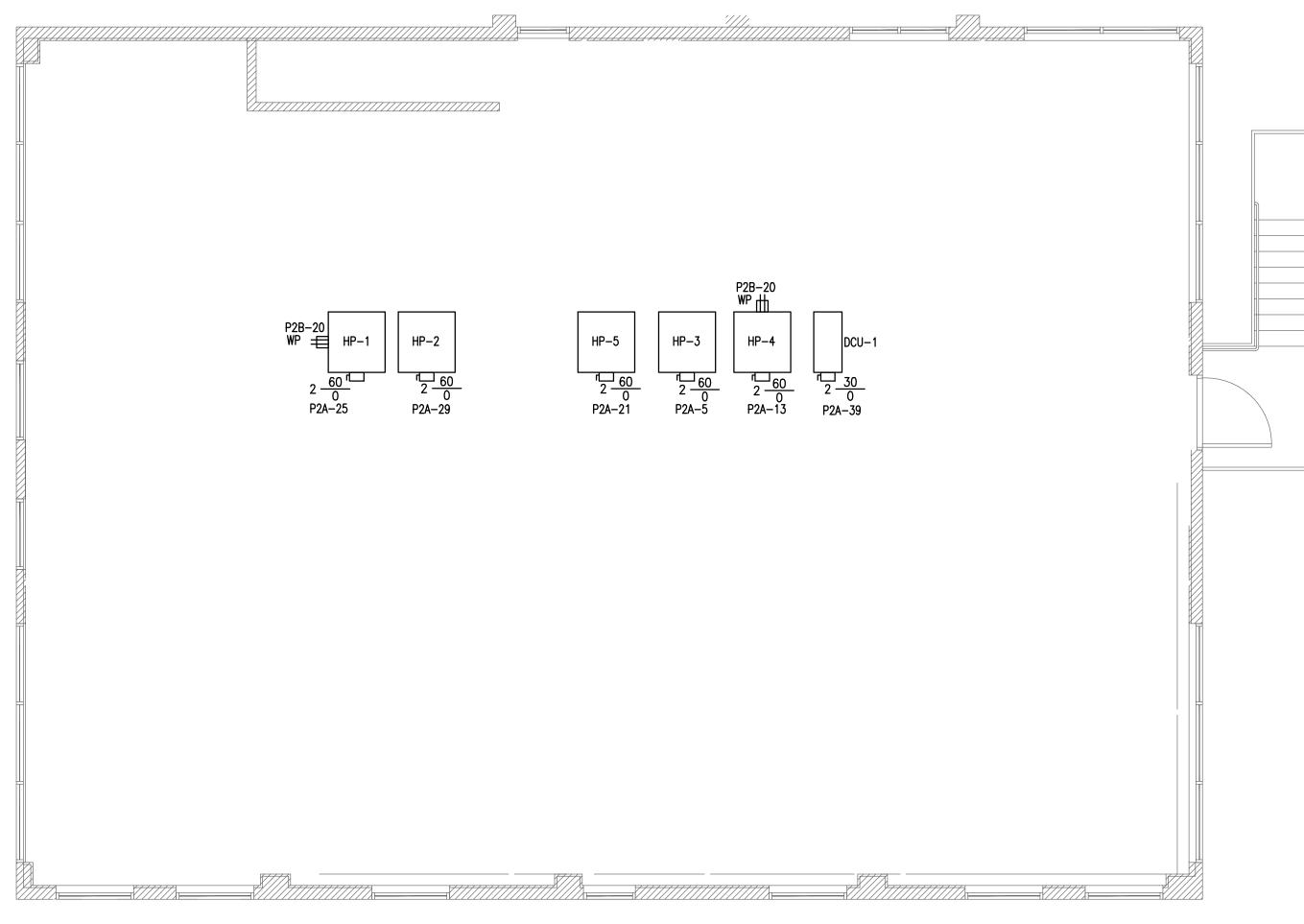
DESIGN

J. BRYAN SHAFFER, PE FL #58168

Project Number: 22.0017.00 Drawn By: MEM Checked By: JBS Project Name: 1649 ATLANTIC OFFICE RENOVATION JACKSONVILLE, FL

> ELECTRICAL PLANS 2ND FLOOR

Drawing Name:







ELECTRICAL PLAN-ROOF SCALE: 3/16"=1'-0"

PLAN NOTES:

⊗ REFERENCE NOTE ON DRAWING

1. VERIFY EXACT REQUIREMENTS AND LOCATIONS WITH MECHANICAL DRAWINGS.

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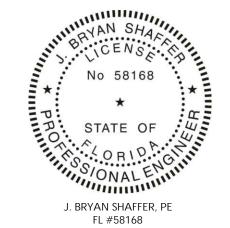
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	Issues and Revisions	No. Delta Date By Description	01 - 04.22.22 JBS PERMIT SET	02	03	04	05	90	07	80	60
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Checked By: JBS

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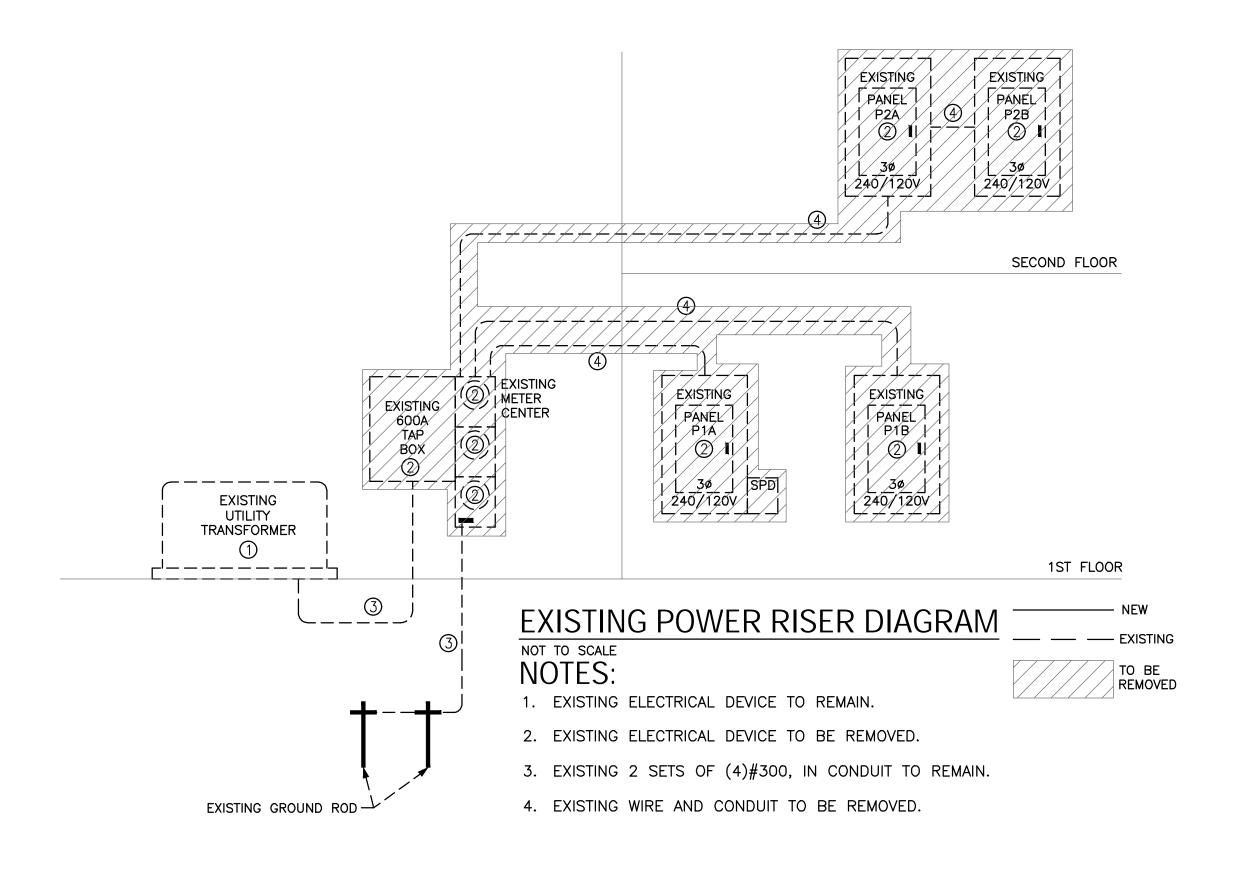
1649 ATLANTIC

ROOF

OFFICE RENOVATION

JACKSONVILLE, FL Drawing Name:

ELECTRICAL PLAN



PANEL PANEL P2A P2B 400A 225A MCB MLO 3ø 240/120V 1ø CAUTION HIGH LEG 240/120V ELECTRICAL SERVICE 240/120V 3ø 4 SECOND FLOOR PANEL CT CABINET P1A (5) 600A I MCB P1B 225A MLO 240/120<u>V</u> **EXISTING** 240/120V UTILITY TRANSFORMER 2 1ST FLOOR 8 EXISTING CONDUIT AND WIRE TO REMAIN GENERAL NOTES ①90 EXISTING GROUND RODS-— — EXISTING

NOT TO SCALE

NOTES:

- 1. ALL CONDUCTOR SIZES BASED ON COPPER CONDUCTORS
- 2. EXISTING ELECTRICAL DEVICE TO REMAIN.
- 3. PROVIDE BAKED ENAMEL WARNING LABEL ON PANEL STATING "CAUTION, B PHASE HAS 208 VOLTS TO GROUND AT EACH ELECTRICAL EQUIPMENT AREA.
- 4. SEE PANEL SCHEDULE FOR WIRE AND CONDUIT REQUIREMENTS.
- 5. PROVIDE BAKED ENAMEL SIGN INDICATING CALCULATED FAULT CURRENT AND DATE CALCULATED. CONTACT UTILITY FOR CALCULATED VALUE.
- 6. INSTALL AN INTERSYSTEM GROUNDING TERMINAL AND CONNECT TO EXISTING GROUNDING SYSTEM.
- 7. INSTALL ASCO #430(150KA) OR EQUAL SURGE PROTECTOR.
- 8. EXISTING 2 SETS OF (4)#300, IN CONDUIT TO REMAIN.
- 9. CONTRACTOR SHALL VISIT SITE AND COORDINATE WITH THE LOCAL ELECTRIC UTILITY/SITE ELECTRICAL PRIOR TO BIDDING. ALL REQUIREMENTS FOR THE NEW ELECTRICAL SERVICE SHALL BE INCLUDED IN THE CONTRACTORS BID
- 10. INSTALL PHASE TAPE FOR HIGH LEG SYSTEM AS REQUIRED BY THE NEC.

ROUTE DIRECTLY TO
PHONE/TV BOARD WHERE
NO ACCESSIBLE CEILING.

(2) 3" C. TO EXTERIOR OF BLDG FOR
TEL/TV. COORDINATE WITH AT&T FOR
EXACT TERMINATION LOCATION.

(2) 2 1/2"C. TO ABOVE CEILING

- PROVIDE BUSHING (TYPICAL)

POWER RISER DIAGRAM

DATA/TEL TV OUTLET

OUTLET

#6, 1/2"C. TO PANELBOARD GROUNDING SYSTEM.

GROUND BUS

FLOOR LEVEL

TELEPHONE

TELEPHONE/TV SINGLE LINE DIAGRAM

NOT TO SCALE

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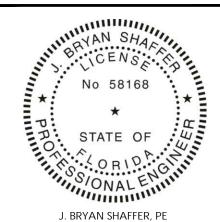
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Checked By: JBS

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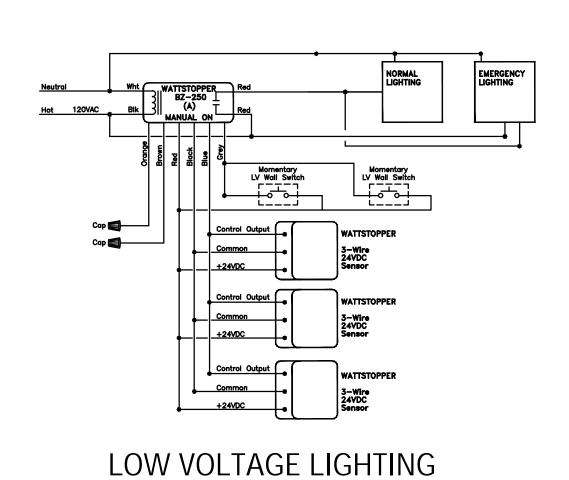
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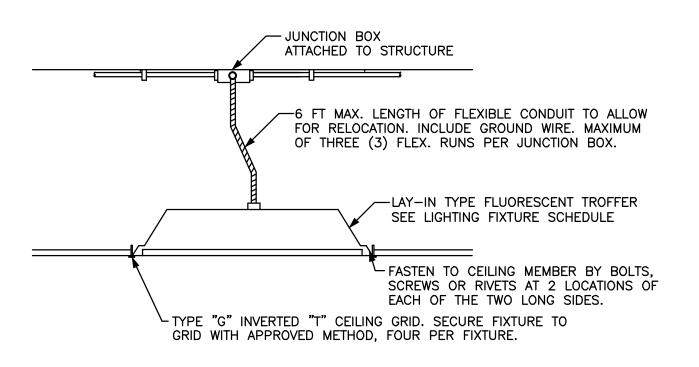
LIGHTING MOTION SENSOR DETAILS-

WITH LINE VOLTAGE CONTROLS

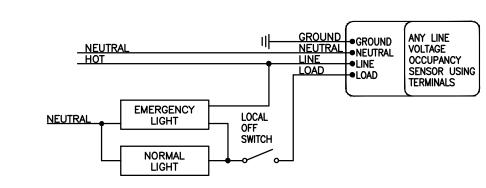


CONTROLS/MOTION SENSORS

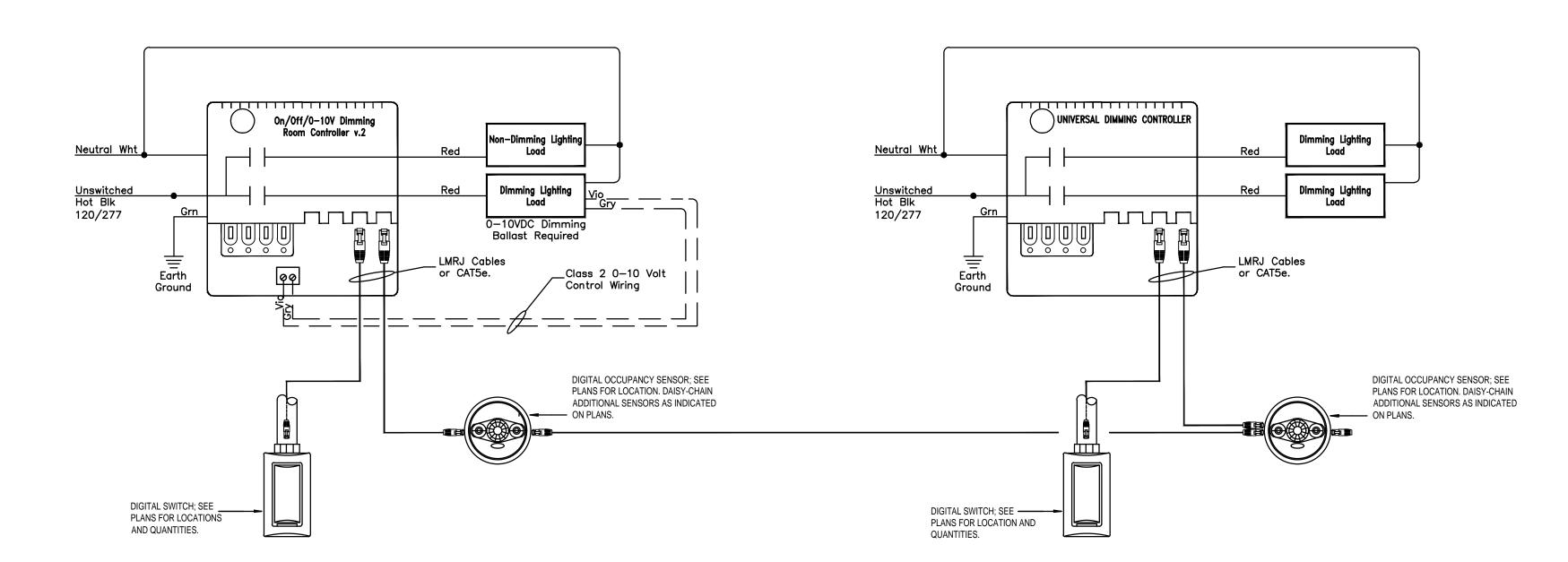
WITHOUT PLUGLOAD CONTROL



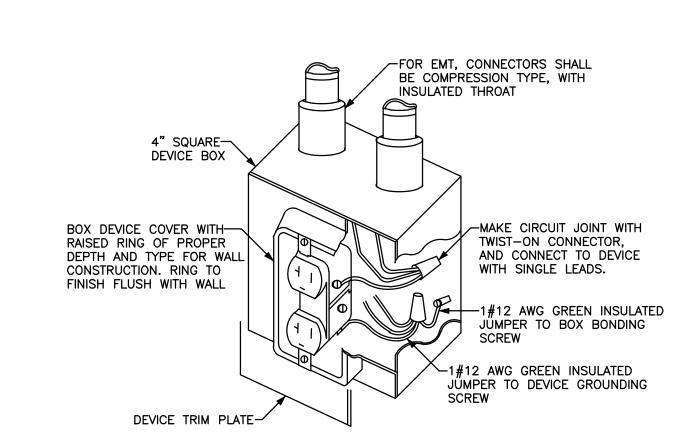
TYPICAL LAY-IN FIXTURE INSTALLATION - DETAIL



LINE VOLTAGE LIGHTING MOTION SENSOR DETAIL - WALL SWITCH







TYPICAL DUPLEX RECEPTACLE INSTALLATION

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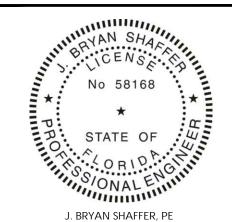
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02				
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Project Number: 22.0017.00 Drawn By: MEM

Checked By: JBS

Project Name:

1649 ATLANTIC

OFFICE RENOVATION

Drawing Name:

ELECTRICAL DETAILS



A. ALL LINE VOLTAGE WIRING SHALL BE #12AWG AND ENCLOSED IN 1/2" CONDUIT. B. NETWORK CABLE SHALL BE IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. THE NETWORK CABLE SHALL BE PLENUM RATED FREE-WIRED ABOVE THE FINISHED CEILING, ROUTED PARALLEL AND PERPENDICULAR TO STRUCTURAL ELEMENTS. CABLE SHALL BE FASTENED TO THE STRUCTURE WITH APPROPRIATE CABLE TIES AT 3' INTERVALS. DO NOT FASTEN CABLE TO OTHER CONDUIT SYSTEMS. PROVIDE 3/4 CONDUIT FOR NETWORK CABLE FROM SWITCH TO ACCESSIBLE CEILING SPACE.

C. ALL LOW VOLTAGE, CLASS II WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS AND ENCLOSED IN 1/2" CONDUIT.

PROVIDE INSULATED BUSHING AT CONDUIT TERMINATION IN CEILING SPACE.

D. PROVIDE COVERS AND IDENTIFY JUNCTION BOXES PER SPECIFICATIONS.

E. PROVIDE IDENTIFICATION PLATE ON THE CEILING GRID INDICATING LOCATION OF DIGITAL DAYLIGHT CONTROLLER AND INPUT/OUTPUT INTERFACE DEVICE ABOVE.

F. DIMMING LEVELS SHALL BE FIELD SET TO LEVELS AS REQUIRED.

G. PROVIDE CONSTANT HOT CIRCUIT CONDUCTOR TO FIXTURES DESIGNATED FOR EMERGENCY LIGHTING THAT ARE EQUIPPED WITH AN EMERGENCY BATTERY BALLAST.

EMERGENCY POWER FAILURE OPERATION DESCRIPTION

IN THE EVENT OF NORMAL POWER FAILURE, THE EMERGENCY LIGHTING FIXTURES SHALL SHUNT TO THE EMERGENCY SOURCE, BYPASSING THE OCCUPANCY SENSOR SWITCHES AND DAYLIGHT HARVESTING OPERATIONS.

JACKSONVILLE, FL

SECTION 16050

BASIC ELECTRICAL MATERIALS AND METHODS

PART 1 GENERAL

A. GROUNDING AND BONDING

3. CONNECTION OF UTILIZATION EQUIPMENT. SUPPORTS. D. IDENTIFICATION

1.2 SUBMITTALS A. PRODUCT DATA: FOR REVIEW; PROVIDE CATALOG DATA FOR GROUNDING AND BONDING DEVICES.

1.3 REGULATORY REQUIREMENTS

C. FLORIDA BUILDING CODE

A. CONFORM TO REQUIREMENTS OF NFPA 70. B. FURNISH PRODUCTS LISTED BY UL OR OTHER TESTING FIRM

ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.

1.4 PROJECT CONDITIONS A. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS

ARE AS SHOWN ON DRAWINGS. PART 2 PRODUCTS

2.1 GROUNDING MATERIALS

A. GROUND ROD: COPPER-CLAD STEEL 3/4-INCH DIAMETER 10

FEET LENGTH. B. MECHANICAL CONNECTORS: BRONZE. ABOVE GRADE ONLY. C. EXOTHERMIC WELDS: BELOW GRADE CONNECTORS.

2.2 BASIC MATERIALS

A. STEEL CHANNEL: GALVANIZED

B. MISCELLANEOUS HARDWARE: TREAT FOR CORROSION RESISTANCE. C. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC,

BLACK LETTERS ON WHITE BACKGROUND. D. WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR

PART 3 EXECUTION

A. INSTALL WORK ACCORDING TO NECA "STANDARD OF 2.5 BUILDING

WIRE AND CABLE INSTALLATION." B. PROVIDE BONDING TO MEET REGULATORY REQUIREMENTS.

C. MAKE ELECTRICAL CONNECTIONS TO UTILIZATION EQUIPMENT IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTRUCTIONS.

1. VERIFY THAT WIRING AND OUTLET ROUGH-IN WORK IS COMPLETE AND THAT UTILIZATION EQUIPMENT IS READY FOR ELECTRICAL

2. MAKE WIRING CONNECTIONS IN CONTROL PANEL OR IN WIRING COMPARTMENT OF PRE-WIRED EQUIPMENT. PROVIDE INTERCONNECTING WIRING WHERE INDICATED.

3. INSTALL AND CONNECT DISCONNECT SWITCHES, CONTROLLERS, CONTROL STATIONS, AND CONTROL DEVICES AS INDICATED.

4. MAKE CONDUIT CONNECTIONS TO EQUIPMENT USING FLEXIBLE CONDUIT. USE LIQUIDTIGHT FLEXIBLE CONDUIT IN DAMP OR WET

5. INSTALL PRE-FABRICATED CORD SET WHERE CONNECTION WITH ATTACHMENT PLUG IS INDICATED OR SPECIFIED, OR USE ATTACHMENT PLUG WITH SUITABLE STRAIN-RELIEF CLAMPS.

6. PROVIDE SUITABLE STRAIN-RELIEF CLAMPS FOR CORD CONNECTIONS TO OUTLET BOXES AND EQUIPMENT CONNECTION BOXES.

D. INSTALL SUPPORT SYSTEMS SIZED AND FASTENED TO ACCOMMODATE WEIGHT OF EQUIPMENT AND CONDUIT, INCLUDING WIRING, WHICH THEY

3.2 EXAMINATION AND PREPARATION

1. FASTEN HANGER RODS, CONDUIT CLAMPS, AND OUTLET AND JUNCTION BOXES TO BUILDINGS STRUCTURE USING PRECAST INSERT SYSTEM BEAM

2. USE TOGGLE BOLTS OR HOLLOW WALL FASTENERS IN HOLLOW MASONRY, PLASTER, OR GYPSUM BOARD PARTITIONS AND WALLS; EXPANSION ANCHORS OR PRESET INSERTS IN SOLID MASONRY WALLS; SELF-DRILLING ANCHORS OR EXPANSION ANCHOR ON CONCRETE SURFACES: SHEET METAL SCREWS IN SHEET METAL STUDS; AND WOOD SCREWS IN WOOD CONSTRUCTION.

3. DO NOT FASTEN SUPPORTS TO PIPING, CEILING SUPPORT WIRES, DUCTWORK, MECHANICAL EQUIPMENT, OR CONDUIT.

4. DO NOT USE POWER-ACTUATED ANCHORS.

5. DO NOT DRILL STRUCTURAL STEEL MEMBERS.

FINISHED LOCATIONS.

6. FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR STEEL CHANNEL.

B. IDENTIFY ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT, AND LOADS SERVED, TO MEET REGULATORY REQUIREMENTS AND AS SCHEDULED.

1. DEGREASE AND CLEAN SURFACES TO RECEIVE NAMEPLATES AND TAPE

2. SECURE NAMEPLATES TO EQUIPMENT FRONTS USING SCREWS, RIVETS, OR ADHESIVE, WITH EDGES PARALLEL TO EQUIPMENT LINES. SECURE NAMEPLATE TO INSIDE FACE OF RECESSED PANELBOARD DOORS IN

3. USE NAMEPLATES WITH 1/8 INCH LETTERING TO IDENTIFY INDIVIDUAL SWITCHES AND CIRCUIT BREAKERS, RECEPTACLE CIRCUITS, AND LOADS

4. USE NAMEPLATES WITH 1/4 INCH TO IDENTIFY DISTRIBUTION AND

CONTROL EQUIPMENT. C. INSTALL WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS,

PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTIONS.

1. USE BRANCH CIRCUIT OR FEEDER NUMBER TO IDENTIFY POWER AND

2. USE CONTROL WIRE NUMBER AS INDICATED ON FROM FOUNDATION WALL: PLASTIC CONDUIT. PROVIDE EQUIPMENT MANUFACTURER'S SHOP DRAWINGS TO IDENTIFY CONTROL WIRING.

SECTION 16100

WIRING METHODS

PART 1 GENERAL

1.1 REGULATORY REQUIREMENTS

A. CONFORM TO REQUIREMENTS OF NFPA 70. B. FURNISH PRODUCTS LISTED BY UL OR OTHER TESTING FIRM ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.

PART 2 PRODUCTS

2.1 PRODUCT REQUIREMENTS

A. USE ONLY SPECIFIED RACEWAY IN THE FOLLOWING LOCATIONS UNLESS DIRECTED OTHERWISE ON DRAWINGS: 1. INSTALLATIONS IN OR UNDER CONCRETE SLAB, OR UNDERGROUND WITHIN

5 FEET FROM FOUNDATION WALL: PVC SCHEDULE 40 CONDUIT.

2. IN SLAB ABOVE GRADE: PLASTIC CONDUIT.

3. EXPOSED OUTDOOR LOCATIONS: RIGID STEEL CONDUIT OR ELECTRICAL METALLIC TUBING. USE THREADED OR RAINTIGHT FITTINGS.

4. WET INTERIOR LOCATIONS: RIGID STEEL CONDUIT OR ELECTRICAL METALLIC TUBING. USE THREADED OR RAINTIGHT FITTINGS FOR METAL CONDUIT.

5. DRY CONCEALED INTERIOR LOCATIONS: RIGID STEEL CONDUIT, ELECTRICAL

6. DRY EXPOSED INTERIOR LOCATIONS: RIGID STEEL CONDUIT, ELECTRICAL METALLIC TUBING.

B. USE WIRE AND CABLE IN LOCATIONS AS FOLLOWS:

1. ALL POWER WIRES AND CABLES SHALL BE IN RACEWAY

C. USE NO WIRE SMALLER THAN 12 AWG FOR POWER AND LIGHTING CIRCUITS, AND NO SMALLER THAN 14 AWG FOR CONTROL WIRING. USE 10 AWG CONDUCTOR FOR 20 AMPERE, 120 VOLT BRANCH CIRCUIT HOME RUNS LONGER THAN 75 FEET; AND FOR 20 AMPERE.

2.2 CONDUIT AND FITTINGS

1. METAL CONDUIT AND TUBING: GALVANIZED STEEL.

2. FLEXIBLE CONDUIT: STEEL

3. LIQUID TIGHT FLEXIBLE CONDUIT: FLEXIBLE CONDUIT WITH PVC JACKET. 4. PLASTIC CONDUIT AND TUBING: NEMA TC 2, PVC. USE SCHEDULE 40

EMT FITTINGS: STEEL COMPRESSION TYPE FOR WET LOCATION. SET

B. CONDUIT FITTINGS: 1. METAL FITTINGS AND CONDUIT BODIES: NEMA FB 1. PLASTIC FITTINGS AND CONDUIT BODIES: NEMA TC 3.

SCREW FOR DRY LOCATION

2.3 ACCESS PANELS

A. PROVIDE CEILING ACCESS PANELS FOR EQUIPMENT, DEVICES, BOXES AND OTHER LIKE ITEMS REQUIRING ADJUSTMENT, MAINTENANCE OR ACCESSIBILITY IF THEY ARE NOT LOCATED OVER LAY-IN TYPE CEILING OR ARE NOT OTHERWISE ACCESSIBLE. OBTAIN APPROVAL FROM ARCHITECT FOR TYPE AND LOCATION OF ACCESS PANELS.

2.4 ELECTRICAL BOXES

. SHEET METAL: NEMA OS 1, GALVANIZED STEEL. 2. CAST METAL: CAST FERALLOY, DEEP TYPE, GASKETED COVER,

2.5 BUILDING WIRE AND CABLE

A. FEEDERS AND BRANCH CIRCUITS LARGER THAN 6 AWG: COPPER STRANDED CONDUCTOR, 600 VOLT INSULATION, THHN/THWN

B. FEEDERS AND BRANCH CIRCUITS 6 AWG AND SMALLER: COPPER CONDUCTOR, 600 VOLT INSULATION, THHN/THWN, XHHW 6 AND 8 AWG, STRANDED CONDUCTOR; SMALLER THAN 8 AWG, SOLID CONDUCTOR.

C. CONTROL CIRCUITS: COPPER, STRANDED CONDUCTOR, 600 VOLT INSULATION, THW.

2.6 REMOTE CONTROL AND SIGNAL CABLE

A. CONTROL CABLE FOR CLASS 1 REMOTE CONTROL AND SIGNAL CIRCUITS: COPPER CONDUCTOR, 600 VOLT INSULATION, RATED 60 DEGREE C, INDIVIDUAL CONDUCTORS TWISTED TOGETHER, SHIELDED, AND COVERED WITH PVC JACKET. (PLENUM RATED)

B. CONTROL CABLE FOR CLASS 2 OR CLASS 3 REMOTE CONTROL AND SIGNAL CIRCUITS: COPPER CONDUCTOR, 300 VOLT INSULATION, RATED 60 DEGREE C. INDIVIDUAL CONDUCTORS TWISTED TOGETHER, SHIELDED, AND COVERED WITH PVC JACKET; UL LISTED. (PLENUM RATED)

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

A. VERIFY THAT INTERIOR OF BUILDING IS PHYSICALLY PROTECTED FROM

B. VERIFY THAT MECHANICAL WORK THAT IS LIKELY TO DAMAGE CONDUCTORS HAS BEEN COMPLETED.

C. COMPLETELY AND THOROUGHLY SWAB RACEWAY SYSTEM BEFORE INSTALLING

D. ELECTRICAL BOXES ARE SHOWN ON DRAWINGS IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED.

1. OBTAIN VERIFICATION FROM ENGINEER OF JUNCTION BOX LOCATIONS, AND LOCATIONS OF OUTLETS IN OFFICES AND WORK AREAS, PRIOR TO 2. IT SHALL BE UNDERSTOOD THAT ANY OUTLET MAY BE RELOCATED A

DISTANCE NOT EXCEEDING 5FT FROM THE LOCATION SHOWN ON THE DRAWINGS PRIOR TO OR DURING ROUGH-IN, IF SO DIRECTED BY THE ARCHITECT-ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.

3. LOCAL SWITCHES WHICH ARE SHOWN NEAR DOORS SHALL BE LOCATED AT THE STRIKE SIDE OF THE DOOR AS FINALLY HUNG, REGARDLESS OF SWING ON THE DRAWINGS.

3.2 INSTALLATION

A. PERFORM WORK ACCORDING TO NECA STANDARD OF INSTALLATION.

B. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT NEAT APPEARANCE.

1. ROUTE EXPOSED RACEWAY PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING.

2. MAINTAIN MINIMUM 6-INCH CLEARANCE TO PIPING AND 12" CLEARANCE TO HEAT SURFACES SUCH AS FLUES, STEAM PIPES, AND HEATING

3. MAINTAIN REQUIRED FIRE, ACOUSTIC, AND VAPOR BARRIER RATING WHEN PENETRATING WALLS, FLOORS, AND CEILINGS. 4. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK

WHERE POSSIBLE; OTHERWISE, ROUTE THROUGH ROOF JACK WITH 5. GROUP IN PARALLEL RUNS WHERE PRACTICAL. USE RACK CONSTRUCTED

OF STEEL CHANNEL. MAINTAIN SPACING BETWEEN RACEWAYS OR DERATE CIRCUIT AMPACITIES TO NFPA 70 REQUIREMENTS. 6. USE CONDUIT HANGERS AND CLAMPS; DO NOT FASTEN WITH WIRE OR

PERFORATED PIPE STRAPS.

8. TERMINATE CONDUIT STUBS WITH INSULATED BUSHINGS.

9. USE SUITABLE CAPS TO PROTECT INSTALLED RACEWAY AGAINST ENTRANCE OF DIRT AND MOISTURE.

7. USE CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION.

10. PROVIDE NO. 12 AWG INSULATED CONDUCTOR OR SUITABLE PULL STRING IN EMPTY RACEWAYS, EXCEPT SLEEVES AND NIPPLES. 11. INSTALL EXPANSION JOINTS WHERE RACEWAY CROSSES BUILDING

EXPANSION OR SEISMIC JOINTS. 12. INSTALL PLASTIC CONDUIT AND TUBING ACCORDING TO MANUFACTURER'S

13. USE STEEL COMPRESSION TYPE FITTINGS WITH EMT CONDUITS.

C. INSTALL ELECTRICAL BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS AND REGULATORY REQUIREMENTS.

1. USE CAST OUTLET BOX IN EXTERIOR LOCATIONS EXPOSED TO WEATHER

2. USE HINGED COVER ENCLOSURE FOR INTERIOR PULL AND JUNCTION BOX LARGER THAN 12 INCHES IN ANY DIMENSION.

3. LOCATE AND INSTALL ELECTRICAL BOXES TO ALLOW ACCESS. PROVIDE ACCESS PANELS IF REQUIRED.

4. LOCATE AND INSTALL ELECTRICAL BOXES TO MAINTAIN HEADROOM AND

TO PRESENT NEAT MECHANICAL APPEARANCE.

5. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS OR IN UNFINISHED AREAS.

6. PROVIDE KNOCKOUT CLOSURES FOR UNUSED OPENINGS. 7. ALIGN WALL-MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS,

8. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS ABOVE COUNTERS AND BACKSPLASHES.

9. USE RECESSED OUTLET BOXES IN FINISHED AREAS AND WHERE

10. SECURE BOXES TO INTERIOR WALL AND PARTITION STUDS, ACCURATELY POSITIONING TO ALLOW FOR SURFACE FINISH THICKNESS. 11. USE STAMPED STEEL STUD BRIDGES FOR FLUSH OUTLETS IN HOLLOW

STUD WALL, AND ADJUSTABLE STEEL CHANNEL FASTENERS FOR FLUSH

12. LOCATE BOXES IN MASONRY WALLS TO REQUIRE CUTTING CORNER ONLY. COORDINATE MASONRY CUTTING TO ACHIEVE NEAT OPENINGS

13. DO NOT INSTALL BOXES BACK-TO-BACK IN WALLS; PROVIDE 6 INCHES SEPARATION, MINIMUM; EXCEPT PROVIDE 24 INCHES SEPARATION,

14. DO NOT DAMAGE INSULATION.

MINIMUM IN ACOUSTIC-RATED WALLS.

AND SIMILAR DEVICES.

D. INSTALL CABLE AND WIRE ACCORDING TO MANUFACTURER'S INSTRUCTIONS

1. NEATLY TRAIN AND SECURE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.

2. USE WIRE PULLING LUBRICANT FOR PULLING 4 AWG AND LARGER

3. SUPPORT CABLES ABOVE ACCESSIBLE CEILINGS TON KEEP THEM

OF CONDUCTORS WITHOUT PERCEPTIBLE TEMPERATURE RISE.

FROM RESTING ON CEILING TILES. 4. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY

5. TERMINATE SPARE CONDUCTORS WITH ELECTRICAL TAPE.

E. INSTALL WIRING DEVICES ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

F. INSTALL WALL PLATES FLUSH AND LEVEL INSTALL PLATES ON SWITCH, RECEPTACLE, AND BLANK OUTLETS IN FINISHED AREAS, USING JUMBO SIZE PLATES FOR OUTLETS INSTALLED

INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND

G. INSTALL SERVICE FITTINGS ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

ON SURFACE-MOUNTED OUTLETS.

H. BEFORE INSTALLING RACEWAYS AND PULLING WIRE TO ANY MECHANICAL EQUIPMENT OR PLUMBING EQUIPMENT, VERIFY ELECTRICAL CHARACTERISTICS WITH FINAL SUBMITTAL ON EQUIPMENT TO ASSURE

PROPER NUMBER AND AWG OF CONDUCTORS. I. UNDERGROUND CABLE AND CONDUIT INSTALLATION SHALL CONFORM TO ANSI C2 AND NEC EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL PROMPTLY REPAIR ANY UTILITY LINES OR SYSTEM DAMAGED BY HIS OPERATION. THE TOP OF UNDERGROUND CONDUIT SHALL NOT BE LESS THAN 24 INCHES BELOW GRADE. THE BOTTOM OF CONDUITS TRENCH SHALL BE GRADED SMOOTH. WHERE ROCK AND SHARP EDGED MATERIAL ARE ENCOUNTERED, THE BOTTOM SHALL BE EXCAVATED FOR ADDITIONAL 3 INCHES, FILLED AND TAMPED LEVEL TO THE ORIGINAL BOTTOM WITH SAND OR EARTH FREE FROM ROCKS AND SHARP MATERIALS. PROVIDE MAGNETIC YELLOW WARNING TAPE ABOVE THE ENTIRE LENGTH OF

UNDERGROUND CONDUITS TAPE SHALL BE BURIED 12" BELOW GRADE. J. SURFACES DISTURBED DURING THE INSTALLATION OF UNDERGROUND CONDUITS SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS. PROVIDE SOD OF QUALITY EQUAL TO THAT REMOVED, PATCH PAVEMENT, SIDEWALK CURB. ETC. EXCAVATED MATERIAL NOT REQUIRED OR SUITABLE FOR BACKFILL SHALL BE REMOVED FROM PROJECT SITE. REMOVE WATER FROM EXCAVATION BY PUMPING OR OTHER APPROVED METHOD. BACKFILL SHALL BE FREE FROM LARGE CLODS OF EARTH OR STONES

SECTION 16400

SERVICE AND DISTRIBUTION

OVER 1 INCH IN SIZE.

PART 1 GENERAL

1.1 SUBMITTALS

A. SHOP DRAWINGS: FOR REVIEW; INDICATE CONSTRUCTION DETAILS FOR THE FOLLOWING:

 PANELBOARDS. B. PRODUCT DATA: FOR REVIEW; PROVIDE RATINGS AND COMPONENT DETAILS FOR THE FOLLOWING: 1. ENCLOSED SWITCHES.

3. CIRCUIT BREAKERS. C. TEST REPORTS: FOR INFORMATION.

D. OPERATING AND MAINTENANCE INSTRUCTIONS: FOR PROJECT CLOSEOUT; INCLUDE THE FOLLOWING:

1.2 REGULATORY REQUIREMENTS

A. CONFORM TO REQUIREMENTS OF NFPA 70.

1. PANELBOARD: SUBMIT NEMA PB 2.1.

B. FURNISH PRODUCTS LISTED BY UL OR OTHER TESTING FIRM ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.

C. CONFORM TO REQUIREMENTS OF UTILITY COMPANY

PART 2 PRODUCTS 2.1 ENCLOSED SWITCHES

> A. MANUFACTURERS: 1. SQUARE D 2. EATON-CUTLER HAMMER

B. ENCLOSED SWITCH ASSEMBLIES: NEMA KS 1; TYPE HD. 1. FUSE CLIPS: DESIGNED TO ACCOMMODATE CLASS R OR J FUSES. 2.2 FUSES

A. MANUFACTURERS: 1. FERRAZ-SHAWMUT 2. BUSSMAN

B. FUSES 600 AMPERES AND LESS: CURRENT LIMITING, ONE-TIME FUSE, 250 VOLT, UL CLASS RK 1, RK 5 OR J.

2.3 PANELBOARDS

A. MANUFACTURERS: 1. EATON-CUTLER HAMMER

2. SQUARE D

B. DISTRIBUTION PANELBOARDS: NEMA PB 1; CIRCUIT BREAKER TYPE 1. ENCLOSURE: TYPE 1 2. PROVIDE SURFACE CABINET FRONT WITH SCREW COVER AND

HINGED DOOR. BUS: COPPER.

4. GROUND BUS: COPPER. 5. VOLTAGE: AS SHOWN

6. MINIMUM INTEGRATED EQUIPMENT RATING: AS INDICATED ON

C. LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS: NEMA PB 1; CIRCUIT BREAKER TYPE. 1. ENCLOSURE: NEMA PB 1; TYPE 1 2. PROVIDE FLUSH OR SURFACE CABINET FRONT WITH LOCKABLE

DOOR, KEYED ALIKE. 3. BUS: COPPER BUS. 4. GROUND BUS: COPPER.

5. VOLTAGE: AS SHOWN 6. MINIMUM INTEGRATED EQUIPMENT RATING: AS INDICATED ON

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION A. MAKE ARRANGEMENTS WITH UTILITY COMPANY TO OBTAIN

PERMANENT ELECTRIC SERVICE TO THE PROJECT. B. PROVIDE CONCRETE PAD FOR UTILITY TRANSFORMER. PROVIDE PAD DIMENSIONS AND DETAILS TO UTILITY REQUIREMENTS.

3.2 INSTALLATION

A. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S

C. INSTALL PANELBOARDS AND LOAD CENTERS TO NEMA PB 1.1.

INSTRUCTIONS B. INSTALL PROPER FUSES IN EACH FUSED SWITCH.

3.3 CLEANING

A. CLEAN EQUIPMENT FINISHES TO REMOVE PAINT AND CONCRETE SPLATTERS.

SECTION 16510

INTERIOR LUMINAIRES PART 1 GENERAL

1.1 SECTION INCLUDES

B. BALLASTS. D. LUMINAIRE ACCESSORIES.

A. INTERIOR LUMINARIES AND ACCESSORIES.

C. MANUFACTURER'S INSTRUCTIONS:

A ANSI C78 379 - FLECTRIC LAMPS - INCANDESCENT AND HIGH-

INTENSITY DISCHARGE REFLECTOR LAMPS— CLASSIFICATION OF BEAM

B. MANUFACTURER'S INSTRUCTIONS: AND LIMITATIONS OF USE STIPULATED BY PRODUCT TESTING AGENCY SPECIFIED UNDER REGULATORY REQUIREMENTS.

STORAGE, HANDLING, PROTECTION, EXAMINATION, PREPARATION, AND INSTALLATION OF PRODUCT. 1.3 QUALIFICATIONS

A. MANUFACTURER: COMPANY SPECIALIZING IN PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.

C. FURNISH PRODUCTS LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES, INC. AS SUITABLE FOR PURPOSE SPECIFIED AND

1.4 REGULATORY REQUIREMENTS

PART 2 PRODUCTS

2.1 LUMINARIES

A. FURNISH PRODUCTS AS SPECIFIED IN SCHEDULE ON DRAWINGS.

B. SUBSTITUTIONS: UNDER PROVISIONS OF SECTION 16000.

C. INSTALL BALLASTS, LAMPS, AND SPECIFIED ACCESSORIES AT FACTORY. D. BALLAST: MANUFACTURER'S STANDARD, MATCHED TO LAMP

CHARACTERISTICS, RATED 120 VOLTS.

A. CONFORM TO REQUIREMENTS OF ANSI/NFPA 70.

B. CONFORM TO REQUIREMENTS OF NFPA 101.

2.2 BALLASTS

A. FLUORESCENT BALLAST: 1. DESCRIPTION: ANSI C82.1, ELECTRONIC BALLAST. 2. PROVIDE BALLAST SUITABLE FOR LAMPS SPECIFIED.

2.3 FLANGE MOUNTING FRAME

3. VOLTAGE: 120 VOLTS.

PROVIDE FLANGE MOUNTING FRAMES TO MOUNT GRID TYPE TROFFERS FIN HARD CEILINGS. FRAME SHALL PERMIT USE OF GRID (NEMAG) FIXTURES IN CEILINGS REQUIRING FLANGES. FRAMES SHALL BE INDIVIDUAL OR CONTINUOUS ROW MODELS. FRAME SHALL BE EXTRUDED ALUMINUM PAINTED WHITE, 1' X 4', 2' X 2' OR 2' X 4' AS REQUIRED. DAY-BRITE FMK OR APPROVED EQUAL

4. SOURCE QUALITY CONTROL: CERTIFY BALLAST DESIGN AND

CONSTRUCTION BY CERTIFIED BALLAST MANUFACTURERS, INC.

PART 3 EXECUTION 3.1 EXAMINATION

A. EXAMINE SUBSTRATE AND SUPPORTING GRIDS FOR LUMINARIES.

3.2 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

B. INSTALL SUSPENDED LUMINARIES USING PENDANTS SUPPORTED FROM SWIVEL HANGERS. PROVIDE PENDANT LENGTH REQUIRED TO SUSPEND LUMINAIRE AT INDICATED HEIGHT.

C. INSTALL SURFACE MOUNTED LUMINARIES AND EXIT SIGNS PLUMB AND ADJUST TO ALIGN WITH BUILDING LINES AND WITH EACH OTHER. SECURE TO PROHIBIT MOVEMENT.

D. INSTALL WALL MOUNTED LUMINARIES AS SCHEDULED.

E. INSTALL ACCESSORIES FURNISHED WITH EACH LUMINAIRE.

F. MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONDITIONS WITHIN LUMINAIRE.

G. BOND PRODUCTS AND METAL ACCESSORIES TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.

H. INSTALL SPECIFIED LAMPS IN EACH LUMINAIRE, EMERGENCY LIGHTING UNIT AND EXIT SIGN. I. EACH RECESSED FIXTURE SHALL HAVE TWO STEEL WIRE SUPPORTS

J. SEE ARCHITECTURAL RCP DRAWING FOR EXACT FIXTURE LOCATION.

A. OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION.

FASTENED TO THE STRUCTURE ABOVE, AT DIAGONALLY OPPOSITE

INSPECT FOR PROPER CONNECTION AND OPERATION.

3.3 FIELD QUALITY CONTROL

3.4 ADJUSTING

A. AIM AND ADJUST LUMINARIES AS DIRECTED. B. ADJUST EXIT SIGN DIRECTIONAL ARROWS AS INDICATED.

C. RELAMP LUMINARIES THAT HAVE FAILED LAMPS AT SUBSTANTIAL COMPLETION.

B. CLEAN ELECTRICAL PARTS TO REMOVE CONDUCTIVE AND

3.5 CLEANING

A. CLEAN LIGHTING FIXTURES.

DELETERIOUS MATERIALS.

E. CLEAN FINISHES AND TOUCH UP DAMAGE.

MANUFACTURER.

C. REMOVE DIRT AND DEBRIS FROM ENCLOSURE.

D. CLEAN PHOTOMETRIC CONTROL SURFACES AS RECOMMENDED BY

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DESIGN

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CONDITIONS.



FL #58168

Project Number: 22.0017.00 Drawn By: MEM

Checked By: JBS

Project Name:

OFFICE RENOVATION

Drawing Name:

ELECTRICAL SPECIFICATIONS

1649 ATLANTIC

JACKSONVILLE, FL

interiors planning architecture

DESIGN

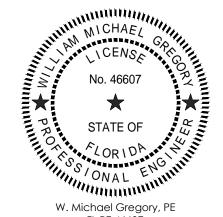
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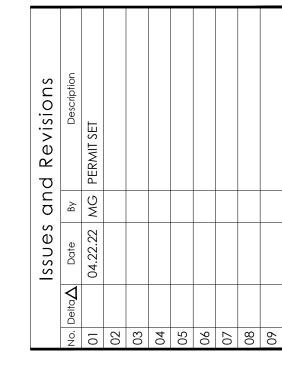
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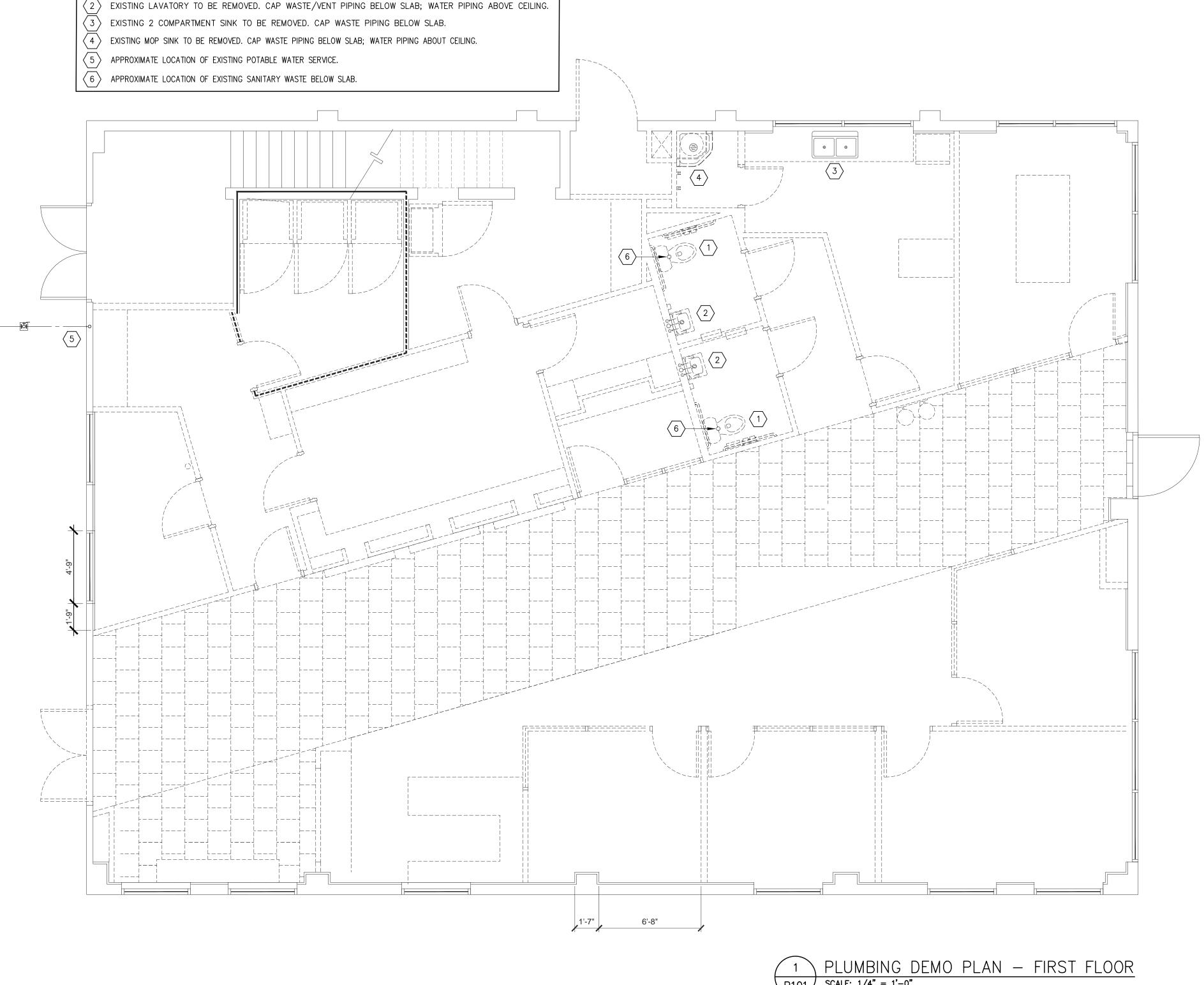
Project Name: 1649 ATLANTIC

OFFICE RENOVATION

JACKSONVILLE, FL

Drawing Name: PLUMBING DEMO PLAN

FIRST FLOOR



PLUMBING DEMO NOTES

ig(1ig) EXISTING WATER CLOSET TO BE REMOVED. CAP WASTE/VENT PIPING BELOW SLAB.

84.

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DESIGN

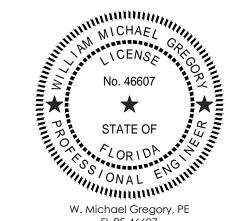
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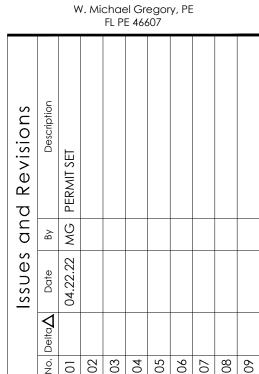
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1649 ATLANTIC
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SECOND FLOOR

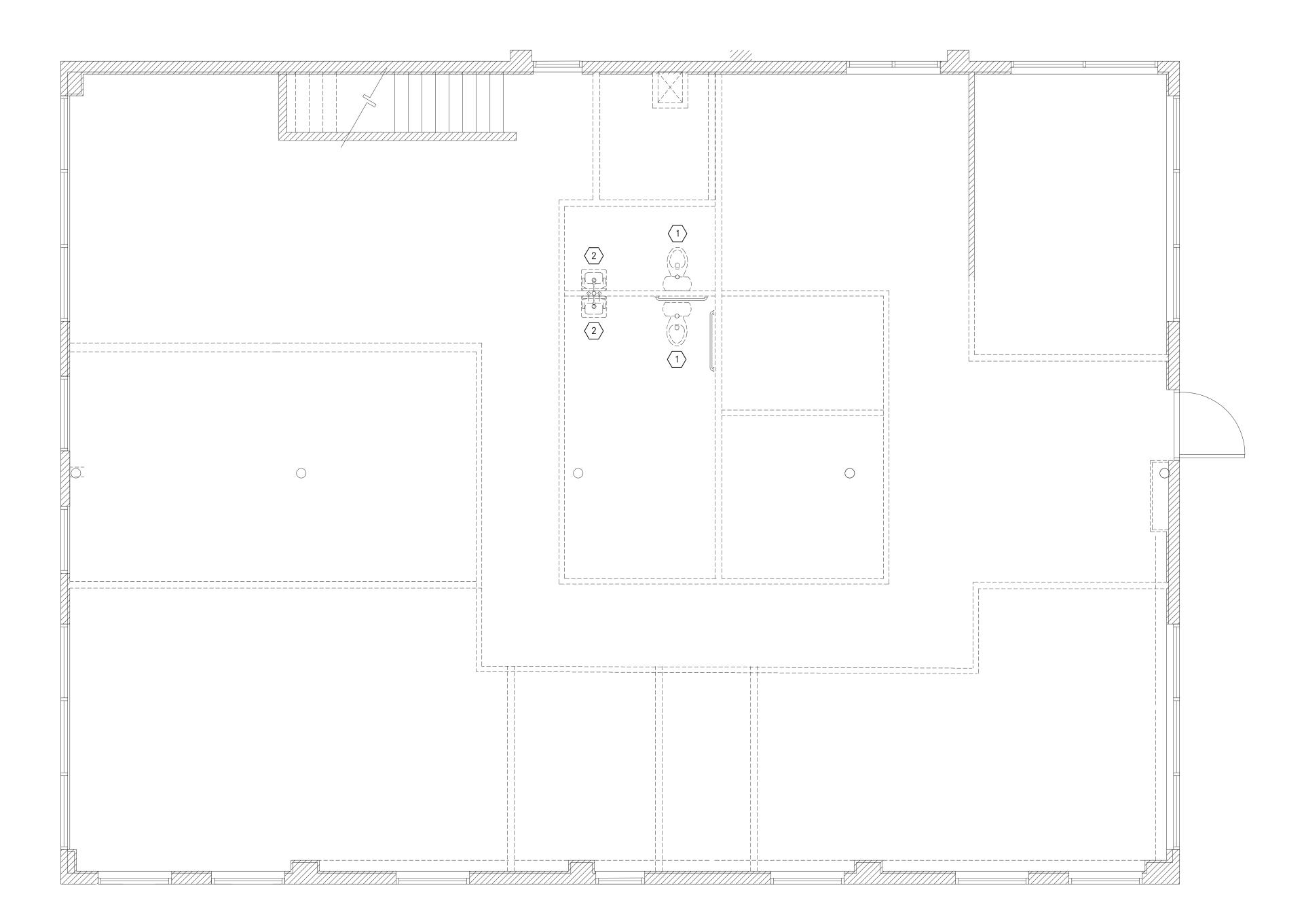
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PLUMBING DEMO PLAN

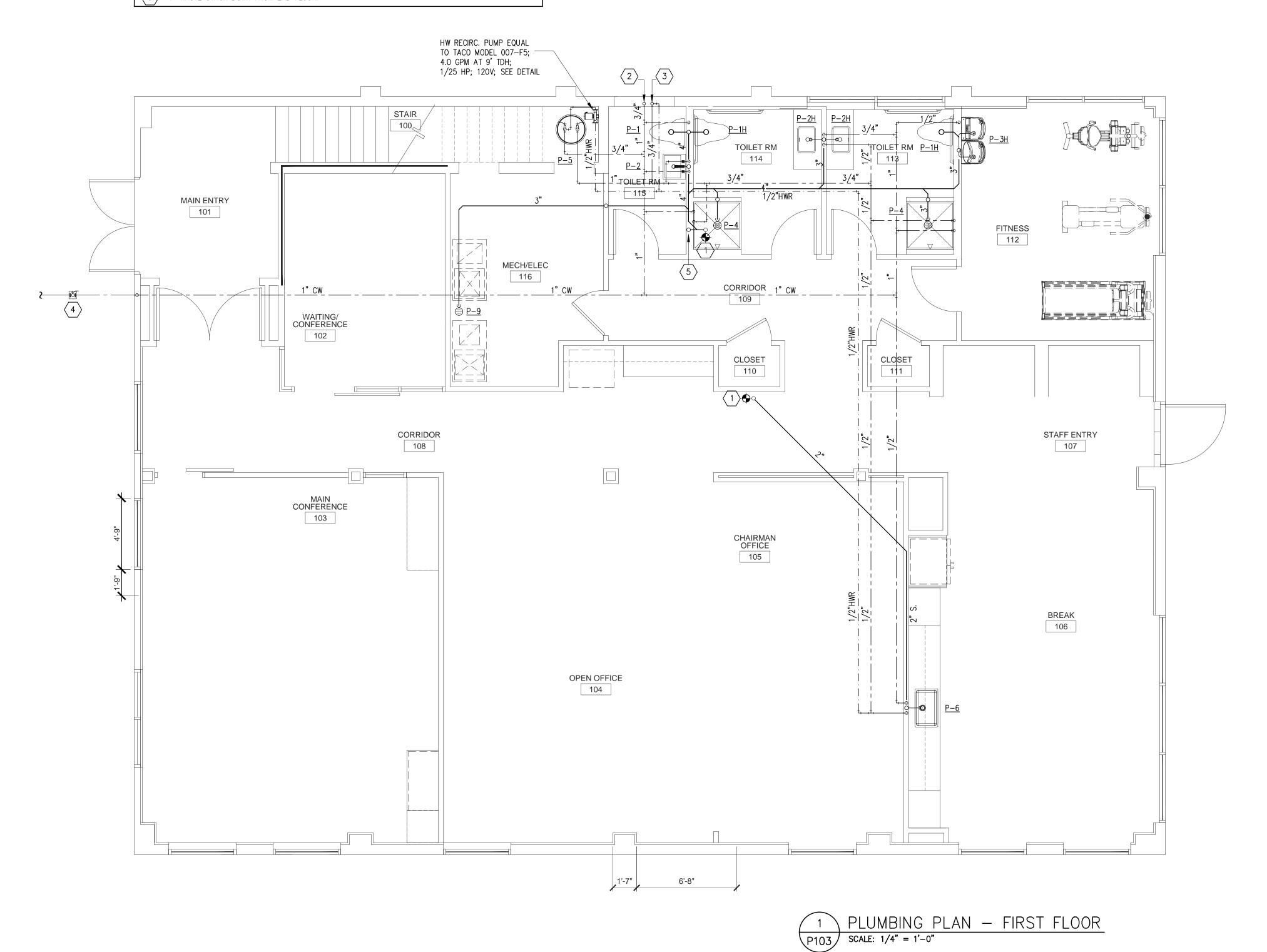
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PLUMBING DEMO NOTES

- (1) EXISTING WATER CLOSET TO BE REMOVED. CAP WASTE/VENT PIPING BELOW SLAB.
- 2 EXISTING LAVATORY TO BE REMOVED. CAP WASTE/VENT PIPING BELOW SLAB; WATER PIPING ABOVE CEILING.



- \langle 1 angle connect to existing waste line. Verify direction of flow and connect accordingly.
- 3/4" CW RISER UP TO 2ND FLOOR; REFER TO SHEET P104 FOR CONTINUATION.
- 3/4" HW RISER UP TO 2ND FLOOR; REFER TO SHEET P104 FOR CONTINUATION.
- 4 APPROXIMATE LOCATION OF EXISTING POTABLE WATER SERVICE.
- 4" WASTE STACK DOWN FROM 2ND FLOOR.





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DESIGN

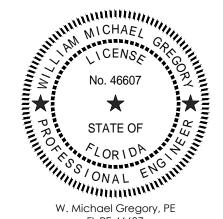
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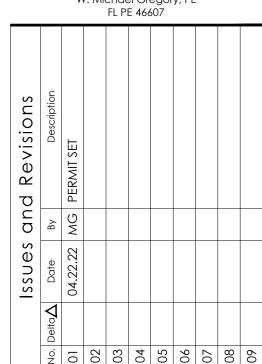
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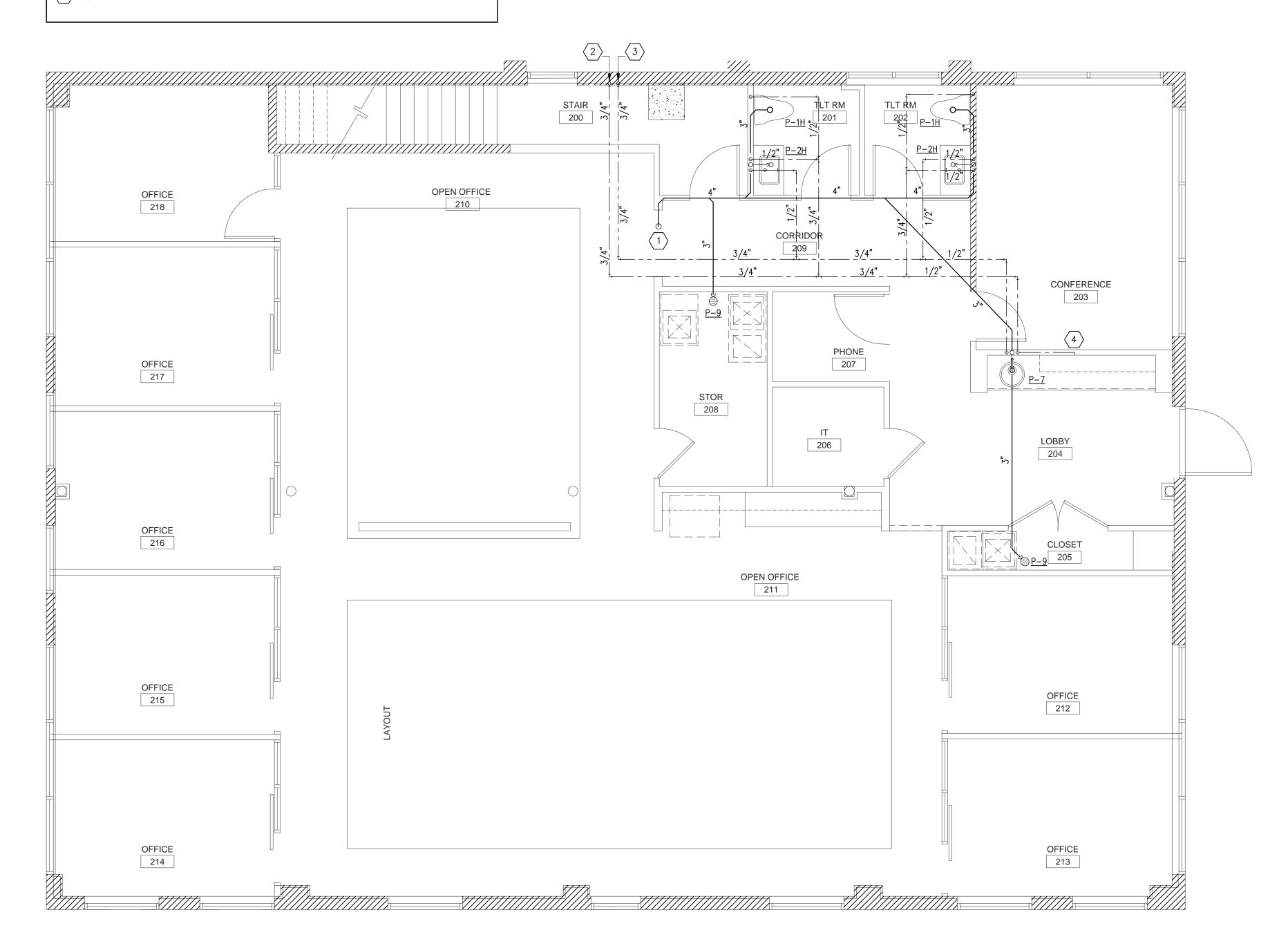
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JACKSONVILLE, FL Drawing Name:

PLUMBING FLOOR PLAN

FIRST FLOOR

- (1) 4" WASTE STACK DOWN TO 1ST FLOOR; REFER TO SHEET P103 FOR CONTINUATION.
- $\overline{2}$ 3/4" CW RISER UP FROM 1ST FLOOR; REFER TO SHEET P103 FOR CONTINUATION.
- $\sqrt{3}$ 3/4" HW RISER UP FROM 1ST FLOOR; REFER TO SHEET P103 FOR CONTINUATION.
- $\overline{\langle 4 \rangle}$ 1/2" CW LINE FOR COFFEE MAKER.



1 PLUMBING PLAN — SECOND FLOOR P104 SCALE: 1/4" = 1'-0"



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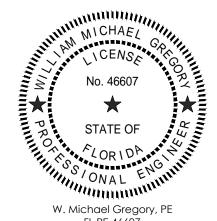
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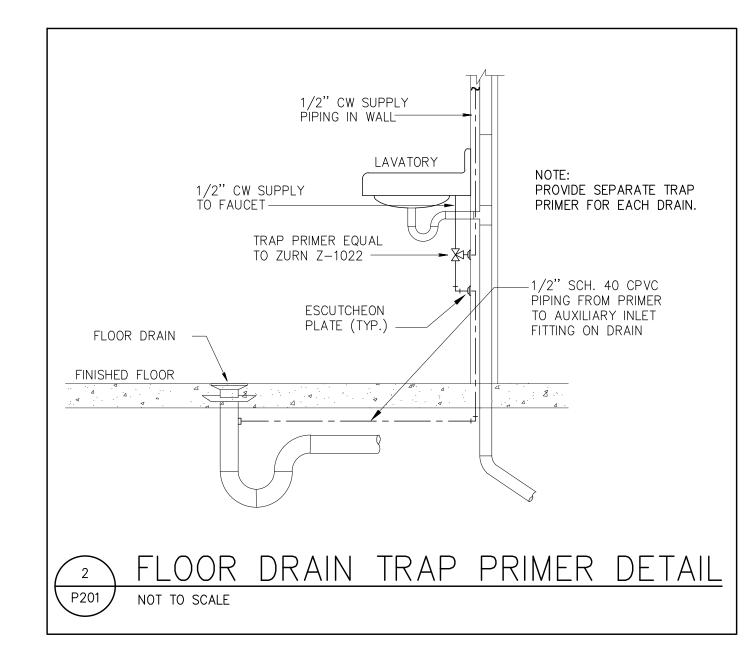
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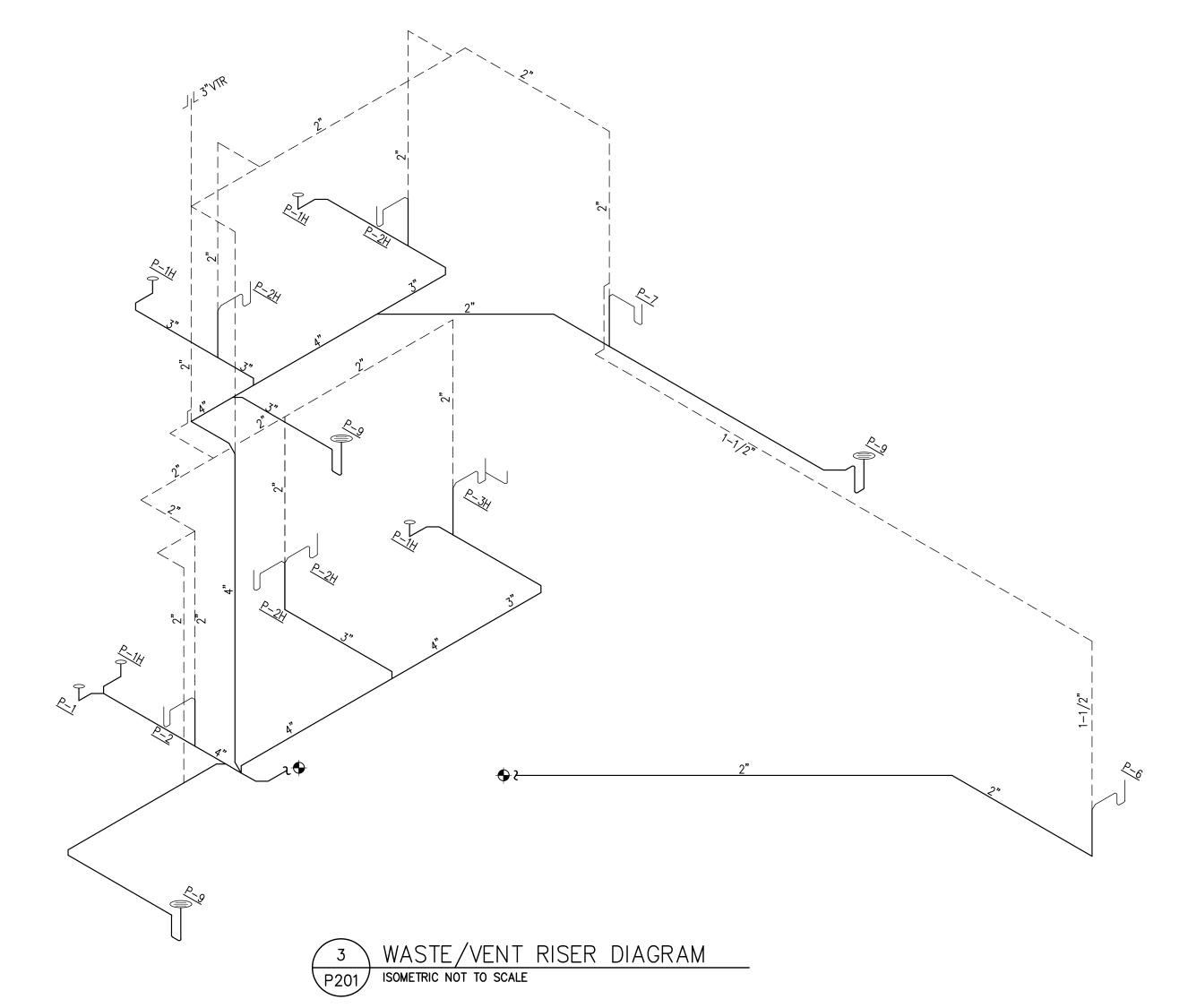
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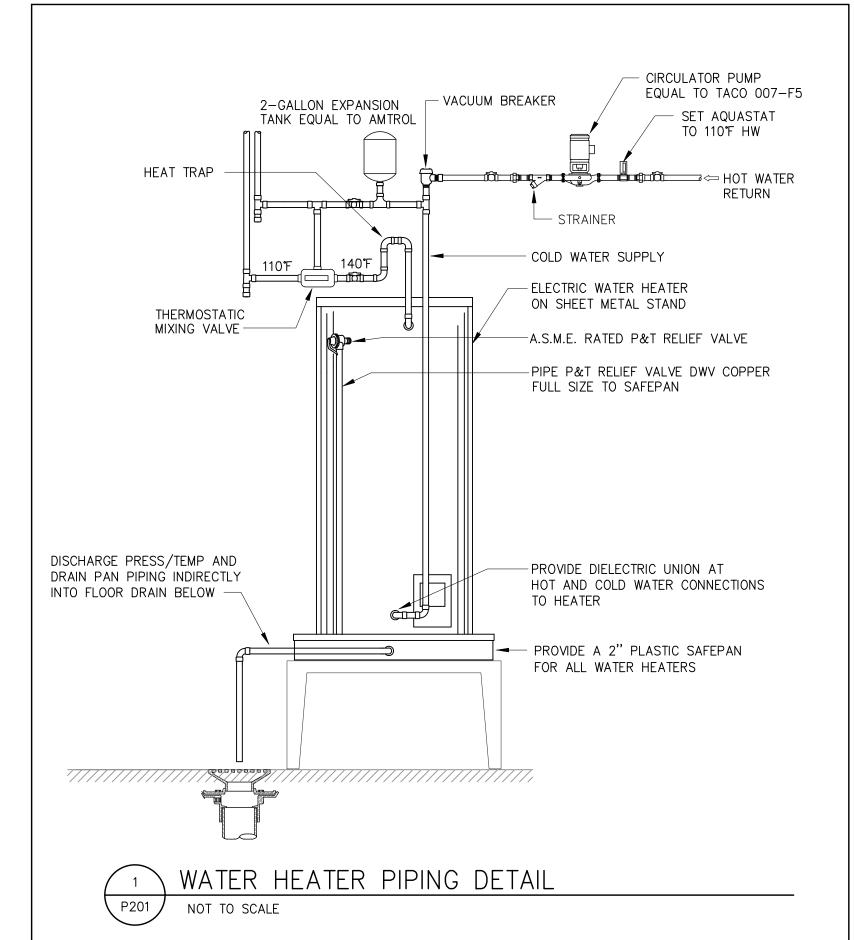
PLUMBING FLOOR PLAN

SECOND FLOOR

7104







MARK	/ MANUEACTURER MOREL #				NECTIO	N SCHEE	ULE
MARK	MANUFACTURER	MODEL#	FIXTURE DESCRIPTION	WASTE	VENT	cw	HW
P-1	KOHLER	"CIMMARON" K-5310	16-1/2" HIGH VITREOUS CHINA WATER CLOSET W/ ELONGATED BOWL (ADA) FLUSH VALVE - SLOAN ROYAL #111-1.28 (1.28 GPF) SEAT (NO LID) - CHURCH MODEL 9500-SSC	3"	2"	1/2"	_
P-1H	KOHLER	"CIMMARON" K-5310	16-1/2" HIGH VITREOUS CHINA WATER CLOSET W/ ELONGATED BOWL (ADA) FLUSH VALVE - SLOAN ROYAL #111-1.28 (1.28 GPF) SEAT (NO LID) - CHURCH MODEL 9500-SSC LOCATE FLUSH CONTROL ON WIDE SIDE OF STALL	3"	2"	1/2"	-
P-2	KOHLER	"LADENA" K-2214	20-7/8" x 14-3/8" RECTANGULAR UNDERMOUNT CHINA LAVATORY FAUCET - DELTA "GALEON" 571-PR-MPU-DST (LUMICOAT STAINLESS FINISH) TRAP - 1 1/4" CAST BRASS WITH C.O. PLUG SUPPLY - 3/8" ANGLE -TYPE WITH STOPS FURNISH/INSTALL ASSE-1070 THERMOSTATIC MIXING VALVE FOR EACH FAUCET	2"	1 1/4"	1/2"	1/2"
P-2H	KOHLER	"BRENHAM" K-1997-1-0	VITREOUS CHINA WALL-HUNG LAVATORY (ADA) ADA FAUCET - DELTA "GALEON" 571-PR-MPU-DST (LUMICOAT STAINLESS FINISH) TRAP - 1 1/4" CAST BRASS WITH C.O. PLUG FURNISH/INSTALL SUITABLE CONCEALED-ARM FIXTURE CARRIER PROVIDE OFFSET TAILPIECE INSULATE TRAP OUTLET & HW SUPPLY TO MEET ADA FURNISH/INSTALL ASSE-1070 THERMOSTATIC MIXING VALVE FOR EACH FAUCET	2"	1 1/4"	1/2"	1/2"
P-3H	ELKAY	LZSTL8WS	DUAL-BASIN WATER COOLER (ADA) WITH BOTTLE FILLER & CANE APRON 7.5 GPH CAPACITY, 3.7 F.L.A.120-1-6 (INDOOR USE)	2"	1 1/4"	1/2"	
P-4	AQUABATH	C4136BF	36x38 PREFAB ACRYLIC A.D.A. BARRIER-FREE SHOWER FIXTURE PROVIDE A.D.A. GRAB BARS AND SEAT ANTI-SCALD VALVE/HEAD: DELTA T14259-LHD-PP + RP101842 HEAD DRAIN: SIOUX CHIEF 821-200P W/ 4-1/4" NICKALOY STRAINER TOP	2"	1 1/2"	1/2"	1/2"
P-5	A.O. SMITH	DEN-52	50-GALLON COMMERCIAL ELECTRIC WATER HEATER 4.5 KW, 240-3-60, 10.8 AMPS SET TANK TEMP TO 140F; SET DELIVERY TEMP CONTROL TO 110F	_	-	3/4"	3/4"
P-6	ELKAY	PLAUH281612	30-1/2" x 18-1/2" RECTANGULAR SINGLE-BOWL UNDERMOUNT STAINLESS SINK FAUCET - DELTA "ESSA" 9113-DST (ARCTIC STAINLESS FINISH) CUP STRAINERS - TWO (2) ELKAY LK-35 SUPPLY - 3/8" ANGLE-TYPE WITH STOPS TRAP - 1 1/2" CAST BRASS WITH C.O. PLUG	2"	1 1/2"	1/2"	1/2"
P-7	DAYTON	DCFU12FB	14-3/8" ROUND SINGLE BOWL UNDERMOUNT STAINLESS STEEL SINK FAUCET - DELTA "ESSA" 9913-DST (ARCTIC STAINLESS FINISH) CUP STRAINERS - (1) ELKAY MODEL LK-35 SUPPLY - 3/8" ANGLE-TYPE WITH STOPS TRAP - 1 1/2" CAST BRASS WITH C.O. PLUG	2"	1 1/2"	1/2"	1/2"
P-8	ZURN	Z1700 SERIES	WATER HAMMER ARRESTOR. SIZE PER P.D.I. WH-201 VERIFY THAT COMPONENT IS ACCESIBLE.		_	_	-
P-9	ZURN	Z415B	FLOOR DRAIN W/ 5" ROUND NICKALOY STRAINER TOP PROVIDE 1/2" AUXILLARY INLET FITTING FOR TRAP PRIMER CONNECTION	3"	2"	_	_



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DESIGN

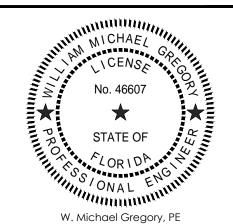
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DO NOT SCALE THE DRAWINGS. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT. SCALE NOTED IS FOR FULL "ANSI-D" SIZE PRINTS.

CONTRACTOR SHALL CHECK & VERIFY ALL JOB SITE CONDITIONS.

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FL PE 46607

| Issues and Revisions | Date | By | Description | D4.22.22 | MG | PERMIT SET |

VESTCOR.

Project Number: 22.0017.00

Drawn By:

Checked By:

Project Name:

1649 ATLANTIC

OFFICE RENOVATION

JACKSONVILLE, FL

Drawing Name:

PLUMBING DETAILS &

RISER DIAGRAM

201

1.01 INSTRUCTIONS

SCOPE OF WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH LOCAL AND STATE CODES, AND CONTRACT

1.02 LOCAL CONDITIONS CONTRACTOR SHALL VISIT THE SITE AND OBSERVE ALL EXISTING LOCAL CONDITIONS WHICH WOULD AFFECT WORK UNDER THIS CONTRACT. CONTRACTOR SHALL EXAMINE ALL PLANS AND SPECIFICATIONS FOR THIS PROJECT AND CONSULT THEM FOR INSTRUCTIONS PERTAINING TO WORK OF THIS SECTION.

1.03 PERMITS AND FEES CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR PERTAINING TO WORK UNDER THIS CONTRACT AND PAY ALL CHARGES INCIDENTAL THERETO. DELIVER TO ARCHITECT ALL CERTIFICATES OF INSPECTION ISSUED BY AUTHORITIES HAVING JURISDICTION.

1.04 CODES AND STANDARDS

A. FURNISH AND INSTALL MECHANICAL SYSTEMS TO MEET ALL CURRENT REQUIREMENTS OF NATIONAL, STATE AND MUNICIPAL CODES, RULES REGULATIONS, LAWS, AND STANDARDS AS THEY ARE ADOPTED BY THE GOVERNING AGENCY AND AS THEY MAY APPLY.

2020 FLORIDA BUILDING CODE, 7th EDITION; 2020 FLORIDA BUILDING CODE, MECHANICAL, 7th EDITION;

2020 FLORIDA BUILDING CODE, PLUMBING, 7th EDITION; 2020 FLORIDA BUILDING CODE, ENERGY CONSERVATION, 7th EDITION;

2020 FLORIDA FIRE PREVENTION CODE, 7th EDITION. 1.05 SUBMITTALS

MATERIAL LIST: WITHIN TWENTY (20) DAYS OF AWARD OF CONTRACT, CONTRACTOR SHALL SUBMIT TO ARCHITECT A COMPLETE LIST OF MATERIALS TO BE PROVIDED FOR THE HVAC WORK. THE LIST SHALL INCLUDE SUPPLIERS' NAMES AND MANUFACTURERS' NAMES AND NUMBER OR SERIES FOR EACH ITEM ON

B. SHOP DRAWINGS: SUBMIT TO THE ARCHITECT FOR APPROVAL, BEFORE COMMENCING WORK, SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT. THE FOLLOWING APPLIES

CONTRACTOR SHALL SUBMIT WITHIN 30-DAYS AFTER AWARD OF CONTRACT, DRAWINGS AND/OR CUT SHEETS OF ALL MATERIALS AND EQUIPMENT, AND 1/4" SCALE EQUIPMENT ROOM DRAWINGS FOR APPROVAL BY ARCHITECT-ENGINEER. SUCH SUBMITTALS MUST CONTAIN OUTLINE DIMENSIONS, OPERATING CLEARANCES, INSTALLATION, OPERATING AND MAINTENANCE INFORMATION AND SUFFICIENT ENGINEERING DATA TO INDICATE SUBSTANTIAL COMPLIANCE WITH SPECIFICATIONS. ALL SHOP DRAWINGS FOR ONE SECTION OF WORK OR ONE MECHANICAL SYSTEM SHALL BE SUBMITTED AT ONE

TIME IN LOOSE-LEAF 3-RING BINDERS; NO APPROVAL WILL BE GIVEN IF SUBMITTED PIECEMEAL. WHERE CONTRACTOR CONSIDERS ADDITIONAL DETAIL OR SHOP DRAWINGS ESSENTIAL TO PROPER FABRICATION OR INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING HE SHALL PREPARE SUCH CONSISTENT WITH CURRENT INDUSTRY METHODS AND STANDARDS. ENGINEER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ANY ITEMS WHICH, IN HIS OPINION, DO NOT PRESENT AN ORDERLY AND REASONABLY NEAT AND WORKMANLIKE APPEARANCE, PROVIDED SUCH AN ORDERLY INSTALLATION CAN BE MADE USING CUSTOMARY TRADE METHODS. REMOVAL AND REPLACEMENT SHALL BE DONE WHEN DIRECTED IN WRITING BY ENGINEER AT THE CONTRACTOR'S EXPENSE AND

WITHOUT ADDITIONAL EXPENSE TO OWNER. APPROVAL GRANTED ON SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE CONSIDERED AS GUARANTEE OF MEASUREMENTS OF BUILDING CONDITIONS; NOR SHALL IT BE CONSTRUED AS RELIEVING THE MECHANICAL CONTRACTOR OF BASIC RESPONSIBILITIES UNDER THIS

4. CHANGES IN FOUNDATIONS, BASES, CONNECTIONS, PIPING, CONTROLS, STARTERS, ELECTRICAL EQUIPMENT, WIRING AND CONDUIT, SPACE OPENINGS, WALLS AND CEILINGS, AND VIBRATION ISOLATION IN ORDER TO ACCOMMODATE SUBSTITUTE EQUIPMENT SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND RECEIVE ENGINEER'S APPROVAL BEFORE INSTALLING MATERIALS OR EQUIPMENT. ANY EQUIPMENT OR MATERIALS INSTALLED PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS FROM ENGINEER SHALL BE SUBJECT TO REMOVAL AND/OR ALTERATION AT THE DISCRETION OF THE MECHANICAL ENGINEER AT NO ADDITIONAL COST.

APPROVAL OF ANY SUBMITTED DATA OR SHOP DRAWINGS FOR MATERIALS, EQUIPMENT, APPARATUS DEVICES, ARRANGEMENTS AND/OR LAYOUTS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY OF FURNISHING SAME OF PROPER DIMENSIONS, CAPACITIES, SIZES, QUANTITIES AND INSTALLATION DETAILS TO EFFICIENTLY PERFORM REQUIREMENTS AND INTENT OF CONTRACT. SUCH APPROVAL SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OF ANY SORT.

C. ANY ELECTRICAL DEVIATIONS BETWEEN THE CONTRACT DOCUMENTS AND THE FURNISHED EQUIPMENT MUST BE SEPARATELY ACKNOWLEDGED BY A SUBSTITUTION REQUEST AND ADDITIONALLY NOTED ON THE

PROVIDE PLUMBING SHOP DRAWINGS FOR: WASTE AND VENT PIPING, DOMESTIC WATER PIPING, VALVES, PLUMBING FIXTURES AND PIPE INSULATION.

1.06 CONNECTING TO WORK OF OTHERS

BEFORE STARTING HIS WORK, AND FROM TIME TO TIME AS WORK PROGRESSES, PLUMBING CONTRACTOR SHALL EXAMINE WORK AND MATERIALS INSTALLED BY OTHERS INSOFAR AS THEY APPLY TO HIS WORK AND SHALL NOTIFY ENGINEER IMMEDIATELY IN WRITING IF CONDITIONS EXIST WHICH WILL. SHOULD CONTRACTOR START HIS WORK WITHOUT SUCH NOTIFICATION, IT SHALL BE CONSTRUED AS.

AN ACCEPTANCE BY HIM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OR WORK OF OTHERS TO RECEIVE HIS WORK. HE SHALL REMOVE AND REPLACE, AT HIS OWN EXPENSE, ALL WORK UNDER THIS CONTRACT WHICH MAY HAVE TO BE REMOVED ON ACCOUNT OF SUCH DEFECTS.

1 07 CONTRACT DRAWINGS

IT IS THE INTENT OF DRAWINGS AND SPECIFICATIONS TO OBTAIN A COMPLETE AND FULLY OPERATIONAL, AND SATISFACTORY INSTALLATION. AN ATTEMPT HAS BEEN MADE TO SEPARATE AND COMPLETELY DEFINE WORK UNDER THIS CONTRACT. HOWEVER, SUCH SEPARATE DIVISIONAL DRAWINGS AND SPECIFICATIONS SHALL NOT RELIEVE CONTRACTOR FROM FULL RESPONSIBILITY OF COMPLIANCE WITH WORK OF HIS TRADE

WHICH MAY BE INDICATED ON ANY DRAWING OR IN ANY SECTION OF THE SPECIFICATIONS. CONTRACTOR SHALL CAREFULLY EXAMINE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS PRIOR TO SUBMITTING BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND CONNECT WITH APPROPRIATE SERVICES ALL ITEMS SHOWN ON ANY DRAWINGS WITHOUT ADDITIONAL EXPENSE TO OWNER. ARCHITECT SHALL BE NOTIFIED PRIOR TO BID DATE OF ANY DISCREPANCIES, OMISSIONS, CONFLICTS OR INTERFERENCES WHICH OCCUR BETWEEN DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS. IF SUCH NOTIFICATION IS RECEIVED IN ADEQUATE TIME, ADDITIONAL DATA OR CHANGES WILL BE ISSUED BY ADDENDUM TO ALL BIDDERS. SUBMITTAL OF BID BY CONTRACTOR SHALL INDICATES THE CONTRACTOR'S ACKNOWLEDGEMENT AND ACCEPTANCE TO PROVIDE ALL NECESSARY EQUIPMENT, MATERIALS AND LABOR TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IN ACCORDANCE WITH ALL CODE REQUIREMENTS.

ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MECHANICAL DRAWINGS WITH REFERENCE TO BUILDING CONSTRUCTION. PLUMBING DRAWINGS ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION OF BUILDING AND WORK OF OTHER TRADES WILL PERMIT. WHERE LOCATIONS OF EQUIPMENT, DEVICES OR FIXTURES ARE CONTROLLED BY ARCHITECTURAL FEATURES, ESTABLISH SUCH LOCATIONS BY REFERRING TO DIMENSIONS ON ARCHITECTURAL DRAWINGS AND NOT BY SCALING DRAWINGS CHANGES FROM DRAWINGS NECESSARY TO MAKE WORK OF CONTRACTOR CONFORM WITH BUILDING AS CONSTRUCTED AND TO FIT WORK OF OTHER TRADES OR RULES OF BODIES HAVING JURISDICTION SHALL BE MADE BY CONTRACTOR AT HIS OWN EXPENSE. SOME DRAWINGS MAY HAVE BEEN PREPARED FROM EXISTING DRAWINGS WITH INTENT OF PROVIDING THE CONTRACTOR WITH INFORMATION CONCERNING THE EXISTING CONDITIONS. DATA SHOWN HAS NOT BEEN COMPLETELY VERIFIED BY ARCHITECT/ENGINEER AND NO GUARANTEE OF ACCURACY OF THIS INFORMATION IS GIVEN OR INTENDED. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. DATA WHICH IS SHOWN BUT PROVES TO BE INCORRECT SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM INSTALLING HIS WORK WITHIN THE INTENT OF PLANS AND SPECIFICATIONS, NOR SHALL IT CONSTITUTE BASIS FOR A CHANGE ORDER UNLESS, IN THE OPINION OF THE ARCHITECT/ENGINEER IT IS DETERMINED TO BE AN EXTRA COST OVER AND ABOVE THE BASIC INTENT OF THESE PLANS AND SPECIFICATIONS.

1.08 DAMAGE TO OTHER WORK

CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PROTECTIVE MEASURES WHEN WORKING OVERHEAD OR IN FINISHED AREAS. HE/SHE SHALL REPAIR, REPLACE OR TOUCH-UP ALL FINISHED SURFACES WHICH MAY BE DAMAGED AS A RESULT OF HIS OPERATIONS.

1.09 STORAGE AND WORK AREAS

A. ALL EQUIPMENT AND MATERIALS SHALL BE PROTECTED FROM THE WEATHER, DAMAGE, MOISTURE, DIRT, DEBRIS, ETC. USE OF CARDBOARD, VISQUEEN, OR OTHER SIMILAR MATERIALS WHILE STORED OUTSIDE IS NOT ACCEPTABLE. DO NOT INSTALL DAMAGED EQUIPMENT.

EQUIPMENT OTHER THAN SPECIFIED IN THE CONTRACT DOCUMENTS REQUIRES APPROVAL FROM ENGINEER 10 DAYS PRIOR TO BID DATE.

WRITTEN REQUEST FOR PRIOR APPROVAL MUST BE RECEIVED IN ENGINEER'S OFFICE BY CLOSE OF BUSINESS NO LATER THAN 10 DAYS PRIOR TO SCHEDULED BID DATE. REQUEST SHALL CONTAIN DETAILED INFORMATION ON THE PROPOSED ITEM. THIS SHALL INCLUDE:

CATALOG CUTS SHEETS DETAILED SPECIFICATIONS

DESCRIPTION OF DEVIATION FROM SPECIFIED ITEM

AN ADDENDA SHALL BE ISSUED LISTING ALL PROSPECTIVE CONTRACTORS LISTING ALL PRIOR APPROVED MANUFACTURERS AND PRODUCTS.

PART 2 - PRODUCTS

2.01 PLUMBING SYSTEMS.

PIPE MATERIALS: DWV (DRAIN, WASTE, AND VENT) PIPING: FITTINGS SHALL BE LONG RADIUS FITTINGS, EXCEPT FITTINGS IN VENT PIPING MAY BE SHORT RADIUS FITTINGS. MINIMUM SIZE PIPING SHALL BE 2 INCHES FOR BURIED

PIPING AND 1-1/4 INCHES FOR ABOVEGROUND PIPING. A. ABOVE AND BELOW GRADE: PVC, SCHEDULE 40, MEETING ASTM D1785, WITH SOLVENT WELD

JOINTS MEETING ASTM D2564.

DOMESTIC WATER PIPING: BELOW GRADE: SDR PIPE: PVC, SCHEDULE 40, MEETING ASTM 2241.

ABOVE GRADE: FLOW GUARD GOLD CPVC, MEETING ASTM D2846 AND F441. PIPING UP TO 1-1/4" SHALL BE SCHEDULE 40.

PIPING 1-1/2" AND LARGER SHALL BE SCHEDULE 80; SOLVENT WELD JOINTS. FINAL PIPING CONNECTIONS TO FLUSH VALVES AND HOSE BIBBS SHALL BE TYPE L COPPER MEETING ASTM B88.

ELECTRIC WATER COOLER WASTE:

3/4-LB., 1-1/2 INCH BLANKET. FSK JACKET

DOMESTIC COLD AND HOT WATER MAINS AND RISERS:

1-INCH STANDARD FIBERGLASS. FACTORY JACKET AND FITTING COVERS.

DOMESTIC WATER PIPING EXPOSED TO EXTERIOR: NITRILE RUBBER BASED ELASTOMERIC SHEET

INSULATION; ARMSTRONG "ARMAFLEX 2". MINIMUM INSULATION THICKNESS SHALL BE 3/4-INCH. 4. CPVC WATER PIPING AND PVC WASTE, VENT AND ROOF DRAIN PIPING RUN IN RETURN AIR PLENUMS: WRAP WITH A FIRE PROTECTIVE JACKET WITH A MAXIMUM FLAME SPREAD RATING OR 25 AND A MAXIMUM SMOKE DEVELOPMENT RATING OF 50 IN ACCORDANCE WITH NFPA-90A, PARAGRAPHS 2-3.3.1 AND 2-3.10.1.

5. PIPING TO BE UNINSULATED: PIPING RUN-OUTS TO FIXTURES (EXCEPT AS NOTED FOR HANDICAP-ACCESSIBLE FIXTURES).

ACCEPTABLE MANUFACTURERS:

MANUFACTURERS' MODEL NUMBERS ARE LISTED TO ESTABLISHED A STANDARD OF QUALITY AND LEVEL OF PERFORMANCE

EQUIVALENT ITEMS OF THE FOLLOWING MANUFACTURES ARE ACCEPTABLE: FIXTURES: SEE FIXTURE SCHEDULE.

AMERICAN-STANDARD, ELJER, KOHLER, CRANE, ELKAY, JUST, AND BRIGGS.

FIXTURE TRIM: SEE FIXTURE SCHEDULE AMERICAN-STANDARD, KOHLER, SPEAKMAN, MOEN, DELTA, T&S BRASS, CHICAGO FAUCET, SYMMONS, BRIGGS.

DRAIN AND FIXTURE SPECIALTIES: J.R. SMITH, JOSAM, ZURN.

FLOOR AND EXTERIOR CLEANOUTS: ZURN-1440 OR EQUAL

WALL CLEANOUT: ZURN-1441 OR EQUAL W/ SMOOTH SECURED COVER. C. FLOOR DRAINS: SEE SCHEDULE ..

ROOF DRAINS: ZURN-100 OR EQUAL

WATER COOLERS: SEE FIXTURE SCHEDULE, OASIS, ELKAY, HALSEY TAYLOR. WATER HEATERS: SEE FIXURE SCHEDULE, RHEEM, A.O. SMITH, STATE, LOCHINVAR.

WATER SYSTEM SPECIALTIES. WATER HAMMER ARRESTORS SHALL CONFORM TO PDI WH201 AND ASSE 1010. ACCEPTABLE:

ZURN SHOKTROLS Z-1700 OR EQUAL. WALL HYDRANTS AND HOSE BIBBS: SEE FIXTURE SCHEDULE.

2.02 PIPING SPECIALTIES A. ESCUTCHEONS SHALL BE MANUFACTURED WALL, CEILING AND FLOOR PLATES; DEEP-PATTERN TYPE WHERE REQUIRED TO CONCEAL PROTRUDING FITTINGS AND SLEEVES. CONSTRUCT OF ONE-PIECE CAST BRASS WITH POLISHED CHROME PLATE FINISH AND SET-SCREW.

A. FLEXIBLE ELASTOMERIC CELLULAR INSULATION, TYPE I, ASTM C 534, FLEXIBLE EXPANDED CLOSED-CELL STRUCTURE WITH SMOOTH SKIN ON BOTH SIDES. PRODUCT AS MANUFACTURED BY ARMSTRONG OR EQUIVALENT BY RUBATEX OR HALSTEAD. AVERAGE MAXIMUM THERMAL

CONDUCTIVITY SHALL BE 0.30 AT 75 DEG F B. FLEXIBLE ELASTOMERIC CELLULAR INSULATION ADHESIVE, SOLVENT-BASED, CONTACT ADHESIVE RECOMMENDED BY INSULATION MANUFACTURER.

2.04 HANGERS AND SUPPORTS

PROVIDE HANDERS, RODS, AND SUPPORT CLAMPS AS REQUIRED TO PROPERLY SUPPORT PIPING AND FLUSH VALVES FROM STRUCTURE.

PROVIDE BUILDING ATTACHMENTS OR CONCRETE INSERTS APPROPRIATE FOR BUILDING MATERIALS.

2.05 SLEEVES: A. WALLS AND PARTITIONS:

PIPE SLEEVES 8-INCH DIAMETER AND SMALLER (ABOVE GRADE): SLEEVES SHALL BE MILD STEEL PIPE OR PLASTIC SLEEVES BUILT INTO WALL, PARTITION OR BEAM, SIZED TO PASS PIPE AND COVERING, LEAVING A CLEAR SPACE OF 1/4-INCH MINIMUM BETWEEN COVERING AND SLEEVE. PENETRATIONS OF FIRE RATED BARRIÉRS SHALL HAVE MILD STEEL SLEEVES. 2. PIPE SLEEVES INSTALLED IN EXTERIOR WALLS BELOW GRADE: SCHEDULE 40 STEEL HOT DIPPED GALVANIZED AFTER FABRICATION OR CAST IRON SLEEVE WITH 1/4-INCH X 3-INCH CENTER

FLANGE (WATER STOP) AROUND THE OUTSIDE. B. PIPE SLEEVES IN FLOORS (ABOVE GRADE): SLEEVES SHALL BE 14 GAUGE GALVANIZED SHEET STEEL OR PLASTIC, SET BEFORE FLOOR IS POURED, SIZED TO PASS PIPE AND COVERING, LEAVING A CLEAR SPACE OF 1/4-INCH BETWEEN COVERING AND SLEEVE, AND SHALL EXTEND 1/2-INCH ABOVE FINISHED FLOOR.

C. SEALING OF SLEEVES: 1. SLEEVES BELOW GRADE: CAULK ANNULAR SPACE BETWEEN PIPE AND SLEEVE USING OAKUM AND POURED LEAD BOTH SIDES MINIMUM ONE INCH DEEP TO MAKE WALL PENETRATION

2. SLEEVES ABOVE GRADE: OPENINGS AROUND PIPES, DUCT, ETC., PASSING THROUGH SLEEVES SHALL BE MADE DRAFT FREE AND VERMIN-PROOF BY PACKING SOLIDLY WITH MINERAL WOOL

3. SEALING OF SLEEVES THROUGH FIRE RATED BARRIERS: OPENINGS AROUND PIPES, ETC. THROUGH FIRE RATED BARRIERS SHALL BE SEALED USING AN U.L. APPROVED METHOD RATED AT LEAST EQUAL TO THE WALL BEING PENETRATED.

PART 3 - EXECUTION

3.01 PIPE INSULATION INSTALLATION

A. INSTALL ONE INCH THICK PIPE INSULATION ON HOT WATER PIPING. INSTALL ONE INCH THICK PIPE INSULATION ON COLD WATER PIPING THAT IS ABOVE THE ROOF INSULATION. B. INSTALL INSULATION IN STRICT ACCORDANCE WITH MANUFACTURERS WRITTEN RECOMMENDATIONS.

3.02 TESTING OF WATER DISTRIBUTION SYSTEMS A. TEST FOR LEAKS AND DEFECTS IN NEW WATER DISTRIBUTION PIPING SYSTEMS. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF

B. LEAVE UNCOVERED AND UNCONCEALED NEW WATER DISTRIBUTION PIPING UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE WORK THAT HAS BEEN COVERED OR CONCEALED BEFORE IT HAS BEEN TESTED AND APPROVED FOR TESTING. C. CAP AND SUBJECT THE PIPING SYSTEM TO A STATIC WATER PRESSURE OF 50 PSIG ABOVE THE

OPERATING PRESSURE WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR 4 HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.

D. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST SYSTEM OR PORTION THEREOF UNTIL

SATISFACTORY RESULTS ARE OBTAINED. E. PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.

3.03 TESTING OF DRAINAGE AND VENT PIPING SYSTEMS

CONNECTIONS FOR GAS AND WATER LEAKS.

C651 OR AWWA C652OR AS DESCRIBED BELOW:

PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.

A. PURGE NEW POTABLE WATER DISTRIBUTION PIPING SYSTEMS PRIOR TO USE.

FROM SYSTEM FOLLOWING ALLOWED STANDING TIME.

SIGNED AND DATED AS-BUILT DRAWINGS OF THE CONTROLS.

GUARANTEE AND DATES OF GUARANTEE COVERAGE.

RUBBISH GENERATED BY WORK UNDER THIS CONTRACT.

PREPARE AND SUBMIT REPORTS FOR PURGING AND DISINFECTING ACTIVITIES.

SATISFACTORY RESULTS ARE OBTAINED.

STAND FOR 3 HOURS.

OF THE SYSTEM TESTED

TESTED AND APPROVED.

3.04 CLEANING

3.05 AS-BUILT DRAWINGS

3.06 GUARANTEE AND SERVICE

3.07 REMOVAL OF RUBBISH

3.08 EXCAVATION, BACKFILLING AND COMPACTION

SECTION OF DIVISION 2.

A. TEST FOR LEAKS AND DEFECTS IN NEW DRAINAGE AND VENT PIPING SYSTEMS. IF TESTING IS PERFORMED

B. LEAVE UNCOVERED AND UNCONCEALED NEW DRAINAGE AND VENT PIPING UNTIL IT HAS BEEN TESTED AND

C. TEST PIPING OF PLUMBING DRAINAGE AND VENTING SYSTEMS ON COMPLETION OF ROUGH-IN PIPING

IN SEGMENTS, SUBMIT A SEPARATE REPORT FOR EACH TEST, COMPLETE WITH A DIAGRAM OF THE PORTION

APPROVED. EXPOSE FOR TESTING WORK THAT HAS BEEN COVERED OR CONCEALED BEFORE IT HAS BEEN

INSTALLATION. TIGHTLY CLOSE ALL OPENINGS IN PIPING SYSTEM AND FILL WITH WATER TO POINT OF

OVERFLOW, BUT NOT LESS THAN 5 FEET HEAD OF WATER. WATER LEVEL SHALL NOT DROP DURING THE

PERIOD FROM 15 MINUTES BEFORE INSPECTION STARTS THROUGH COMPLETION OF INSPECTION. INSPECT

JOINTS FOR LEAKS. AFTER PLUMBING FIXTURES HAVE BEEN SET AND THEIR TRAPS FILLED WITH WATER,

TEST CONNECTIONS AND PROVE GASTIGHT AND WATERTIGHT. PLUG STACK OPENINGS ON ROOF AND

PRESSURE OF 1-INCH WATER COLUMN. USE A U TUBE OR MANOMETER INSERTED IN THE TRAP OF A

BUILDING DRAIN WHERE IT LEAVES THE BUILDING AND INTRODUCE AIR INTO THE SYSTEM EQUAL TO

WATER CLOSET TO MEASURE THIS PRESSURE. AIR PRESSURE SHALL REMAIN CONSTANT WITHOUT

USE PURGING AND DISINFECTING PROCEDURE PRESCRIBED BY AUTHORITY HAVING JURISDICTION OR, IF

PER MILLION OF CHLORINE. ISOLATE (VALVE OFF) AND ALLOW TO STAND FOR 24 HOURS.

DRAIN SYSTEM OR PART THERE OF OF PREVIOUS SOLUTION AND REFILL WITH WATER/CHLORINE

SOLUTION CONTAINING AT LEAST 200 PARTS PER MILLION OF CHLORINE.ISOLATE AND ALLOW TO

PROCEDURE IF BIOLOGICAL EXAMINATION MADE BY THE AUTHORITY SHOWS EVIDENCE OF CONTAMINATION.

UPON COMPLETION OF INSTALLATION, THE CONTRACTOR SHALL FURNISH TO THE ARCHITECT A SET OF

DRAWINGS, MARKED TO SCALE, INDICATING THE SIZE AND LOCATION OF PIPING AND DUCTS, AND NOTING

ARCHITECT AND SHALL BEAR ALL COSTS IN OBTAINING THE DRAWINGS AND PROVIDING THE AS-BUILT

CONTRACTOR, DATED AND HAVE "AS-BUILT" STAMPED NEAR THE SIGNATURE. DRAWINGS SHALL GIVE ACCURATE DIMENSIONS MEASURED FROM COLUMNS, WALLS, BEAMS AND OTHER FIXED PARTS OF THE

A. IN ADDITION TO THE GUARANTEE OF EQUIPMENT BY THE MANUFACTURER OF EACH PIECE OF EQUIPMENT

ADJUSTMENTS AND/OR REPLACEMENTS OF ALL DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP

WITHOUT EXPENSE TO THE OWNER. PROVIDE A LETTER TO THE OWNER STATING THE CONTRACTOR'S

A. CONTRACTOR SHALL AT ALL TIMES KEEP PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIAL OR

UNDERGROUND PIPING IN THIS DIVISION OF THE SPECIFICATIONS SHALL BE DONE BY THE PLUMBING

CONTRACTOR. THIS WORK SHALL BE DONE IN STRICT ACCORDANCE WITH EXCAVATION AND BACKFILLING

A. ALL EXCAVATION, BACKFILLING, COMPACTION, TESTING, ETC. REQUIRED FOR THE INSTALLATION OF

BE HELD RESPONSIBLE FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE FOR NECESSARY

MAJOR CHANGES MADE DURING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN THE DRAWINGS FROM THE

DRAWINGS. THE CONTRACTOR SHALL DELIVER THE DRAWINGS PLUS TWO SETS OF AS-BUILT DRAWINGS TO

THE ARCHITECT. EACH SHEET IN EACH SET SHALL BE SIGNED BY A PRINCIPAL REPRESENTATIVE OF THE

BUILDING TO THE CONCEALED MATERIALS. THE CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE

SITE AND EACH DAY SHALL RECORD INSTALLATION OF PIPE, DUCTS, ETC. TO INSURE ACCURATE "AS-BUILT"

DRAWINGS. THE CONTRACTOR SHALL ALSO FURNISH A SET OF DRAWINGS AND TWO SETS OF CONTRACTOR

SPECIFIED HEREIN, THE MECHANICAL CONTRACTOR SHALL ALSO GUARANTEE SUCH EQUIPMENT AND SHALL

FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE DOES NOT REMAIN IN WATER COMING

PROVIDE PROPER SIGNAGE TO PREVENT ACCIDENTAL USE DURING DISINFECTION.

SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITY HAVING JURISDICTION. REPEAT

CLEAN INTERIOR OF PIPING SYSTEM. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES.

FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT

FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS

A METHOD IS NOT PRESCRIBED BY THAT AUTHORITY, THE PROCEDURE DESCRIBED IN EITHER AWWA

INTRODUCING ADDITIONAL AIR THROUGHOUT PERIOD OF INSPECTION. INSPECT PLUMBING FIXTURE

REPAIR LEAKS AND DEFECTS USING NEW MATERIALS AND RETEST SYSTEM OR PORTION THEREOF UNTIL

Gregory Engineering, Inc engineered building system

> 4567 Deep River Place Jacksonville, FL 32224 (904) 714-5188 FBPE Certificate # 28163

interio plannin architecture

DESIGN

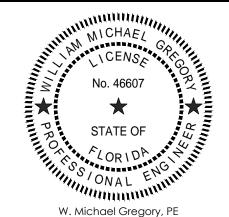
1520 Prudential Drive | Jacksonville, FL 32207 904.353.5900 [o] 904.353.5968 [f] Email info@g4designinc.com | AA26001912

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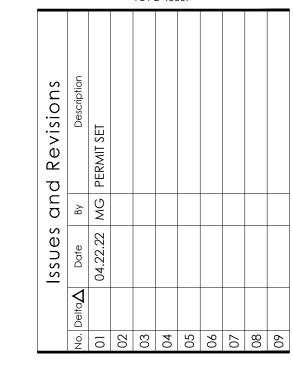
DO NOT SCALE THE DRAWINGS. IF NOT SHOWN, VERIFY CORRECT DIMENSIONS WITH THE ARCHITECT. SCALE NOTED IS FOR FULL "ANSI-D" SIZE PRINTS.

CONTRACTOR SHALL CHECK & VERIFY ALL JOB SITE CONDITIONS.

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FL PE 46607



Project Number: 22.0017.00

Drawn By:

Checked By:

Project Name:

1649 ATLANTIC

OFFICE RENOVATION

JACKSONVILLE, FL

Drawing Name:

PLUMBING SPECIFICATIONS