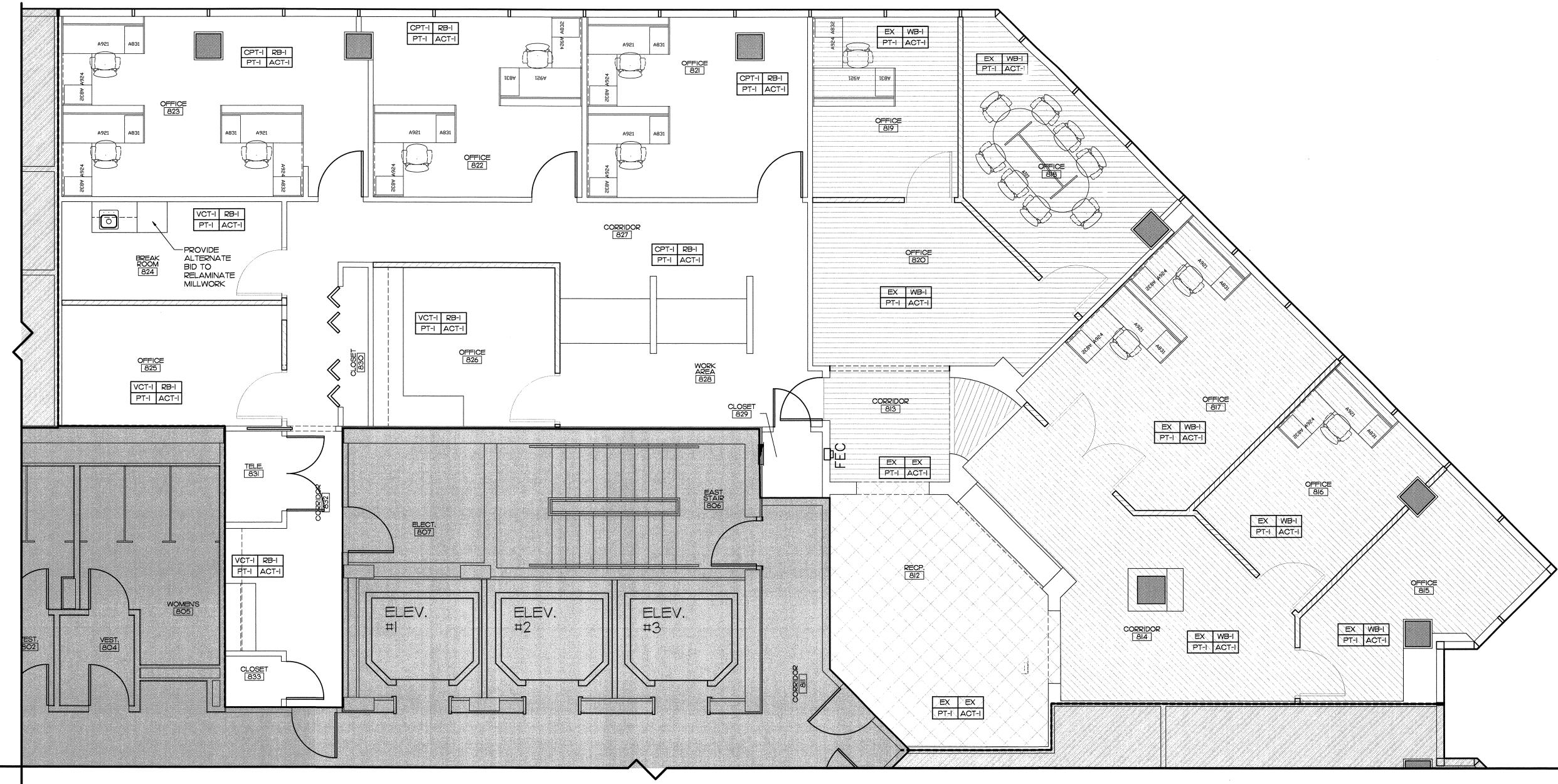


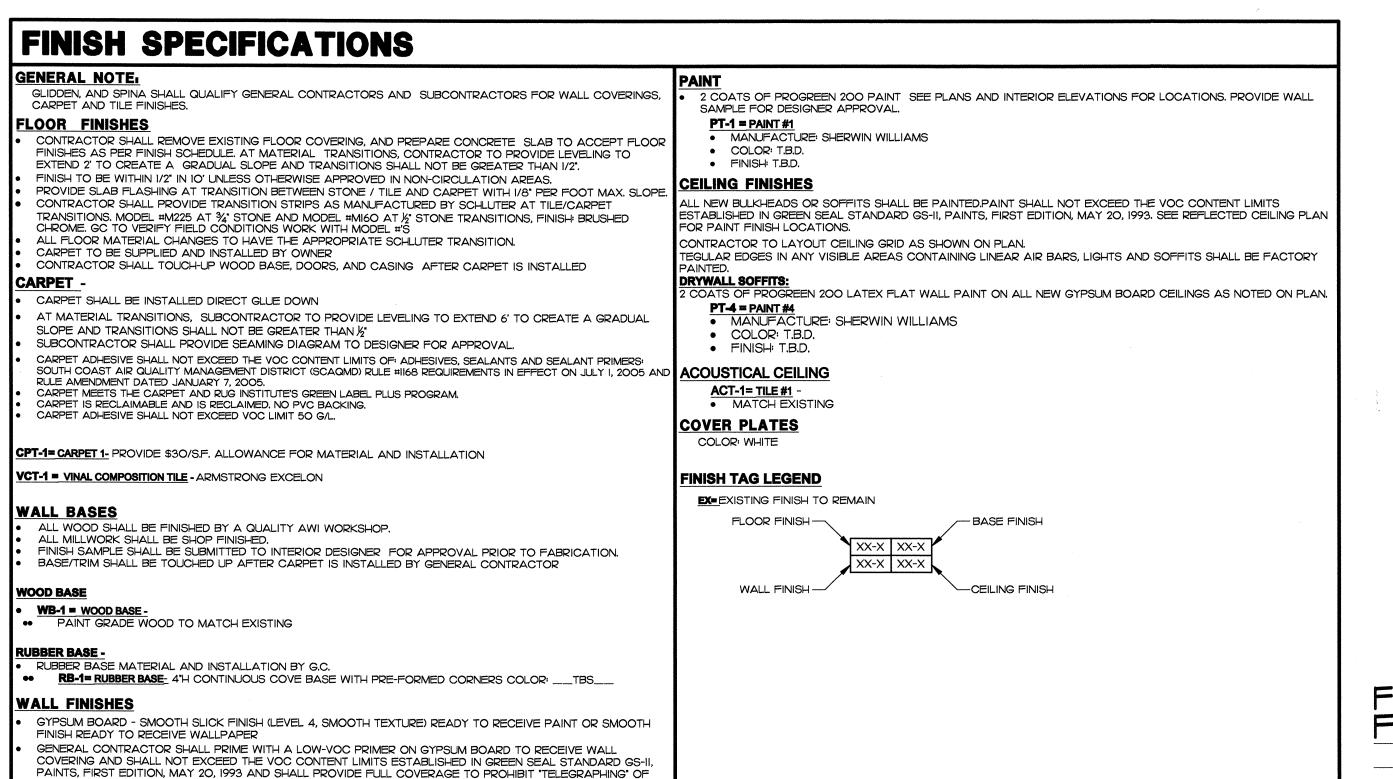
CEILING KEY NOTES REFLECTED CEILING LEGEND NEW 24"X24" SUSPENDED ACOUSTICAL CEILING SYSTEM - SEE FINISH NOTES SHEET A-1.2 FOR SPECIFICATION. I NEW PAINTED GYPSUM BOARD SOFFIT. EXISTING 2'X4' FLUORESCENT LIGHT FIXTURE 2'X4' FLUORESCENT INDIRECT LIGHT FIXTURE FLOOR PLAN & REFL. CEILING PLAN **E** EXISTING DOWNLIGHT PR RELOCATED DOWNLIGHT EXISTING PENDANT TO REMAIN CEILING HEIGHT - ALL CEILING TO BE 8'-6" UNLESS OTHERWISE NOTED SCALE: 1/8" = 1'-0"

I. ALL EMERGENCY LIG- FIXTURES SHALL HAVE THE TEST BUTTONS MOUNTED

INSIDE THE FIXTURE

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TAPE JOINTS THROUGH THE WALLCOVERING. SEE FINISH SCHEDULE FOR LOCATIONS.

L RIGHTS RESERVED.

FOR: SSETS ADVISORY

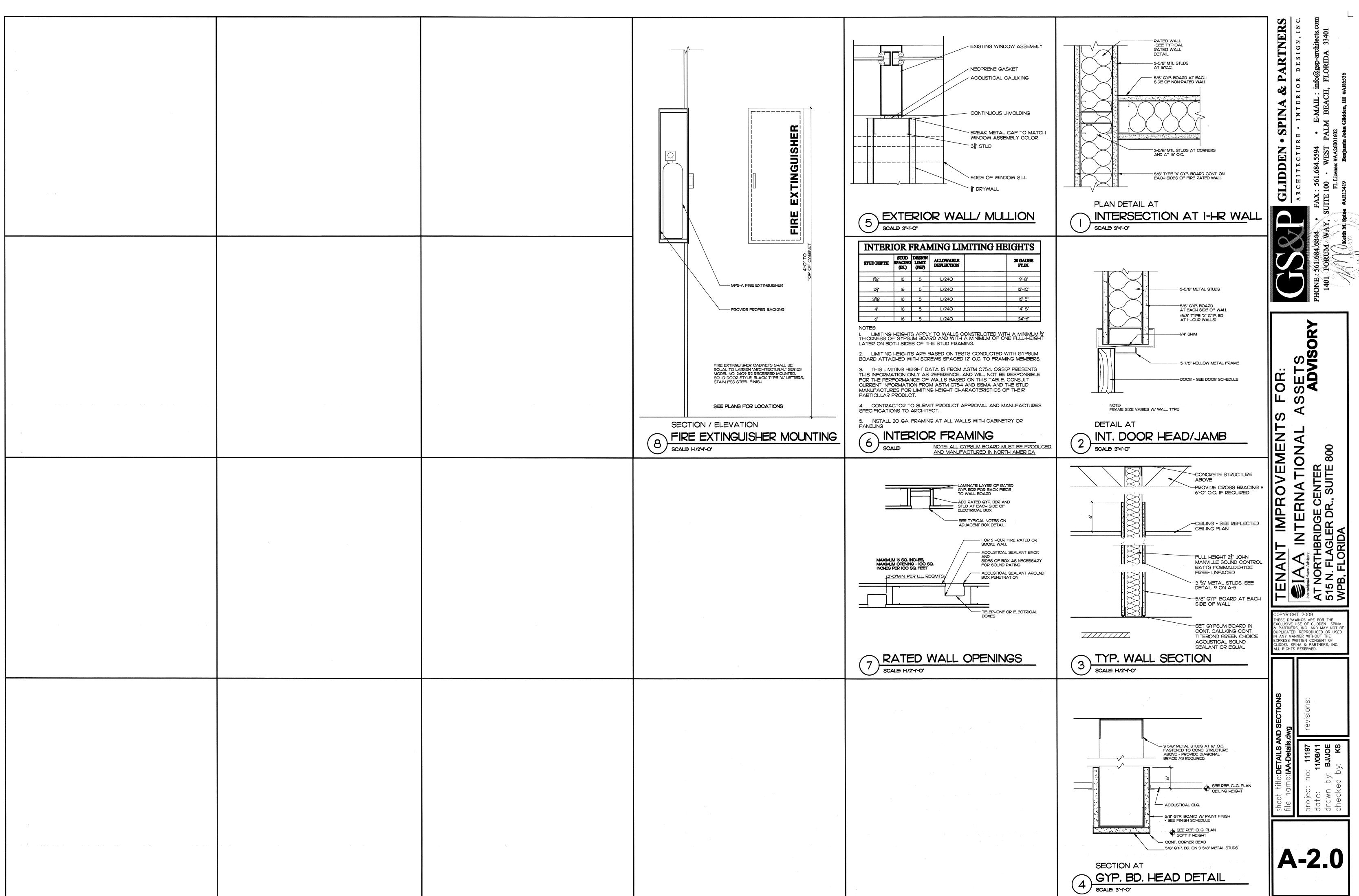
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FINISH & FURNITURE PLAN

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



DEMOLITION GENERAL NOTES

- CONTRACTOR SHALL SUBMIT TO THE ARCHITECT ANY AND ALL DISCREPANCIES IN THE PROPOSED DEMOLITION PLAN PRIOR TO EXECUTION OF THE ITEMS IN QUESTION. DEMOLITION SHALL INCLUDE:
- A. REMOVAL OF EXISTING WALLS, DOORS AND FRAMES AS SHOWN ON PLAN.
 B. REMOVAL OF ALL EXISTING CEILINGS AND CEILING FIXTURES NOT SHOWN, BUT NOTED
 C. REMOVAL OF EXISTING FLOOR FINISHES IN AREAS OF REMOVED WALLS AND AS NOTED
 D. REMOVAL OF ALL ELECTRICAL WIRING AND DEVICES AT ALL REMOVED WALLS AND CEILINGS. ALL WIRING, DEVICES, CONDUIT, AND EQUIPMENT TO BE ABANDONED SHALL
- E. FIRE SPRINKLER SYSTEM SHALL REMAIN IN DEMOLITION PHASE, FIRE SPRINKLER LAYOUT AND HEAD LOCATIONS WILL BE RELOCATED AS REQUIRED IN NEW CONSTRUCTION PHASE OF WORK. CARE SHALL BE TAKEN IN DEMOLITION PHASE TO PROTECT EXISTING HEADS AND PIPING TO KEEP SYSTEM IN OPERABLE CONDITION FOR FIRE PROTECTION.
- CONTRACTOR SHALL REMOVE AND STOCKPILE REMOVED MATERIALS AS DIRECTED BY OWNER, FOR BUILDING OWNER'S FUTURE USE.
- ALL EXISTING WALLS TO REMAIN SHALL BE PATCHED AND PREPARED TO RECEIVE NEW
- GENERAL CONTRACTOR MAY NEED ADDITIONAL DIMENSIONS TO COMPLETE DEMOLITION
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL AREAS NOT INCLUDED IN THIS
- ALL WORK SHALL BE COORDINATED AND APPROVED BY BLDG. MGMT. PRIOR TO COMMENCEMENT.
- PROTECT ALL WINDOW BLINDS (REMOVE AND BAG AND PLACE BACK IN ORIGINAL LOCATION
- FOR PROTECTION IN DEMO PROCESS). CONTRACTOR TO COORDINATE WITH BUILDING MANAGEMENT FOR ANY DEMOLITION WORK THAT NEEDS TO BE PERFORMED "AFTER-HOURS"
- 10. PROTECT ELEVATOR SHAFT AT ALL ELEVATOR OPENINGS

ELECTRICAL DEMO NOTES

- REMOVE ALL EXISTING LIGHTING FIXTURES IN AREA TO BE DEMOLISHED, INCLUDING ALL ASSOCIATED BRANCH CIRCUIT WIRING (CONDUCTORS CONDUITS, FIXTURE WHIPS AND SWITCH WIRING) NO LONGER IN USE. REUSE WIRING WHEREVER POSSIBLE. STOCKPILE (80) 2X2 LIGHT FIXTURES FOR RE-USE.
- REMOVE ALL WIRING DEVICES IN EXISTING PARTITION WALL TO BE REMOVED, INCLUDING ALL BRANCH CIRCUIT WIRING (CONDUCTORS AND CONDUIT) NO LONGER IN USE.
- ALL ELEVATOR CONTROLS, ELEVATOR LIGHTS, FIRE ALARM PULLS, SMOKE DETECTORS, FIRE ALARM STROBES, FIRE ALARM HORNS AND SPEAKERS SHALL BE PROTECTED AS REQUIRED AND SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- ALL HIGH VOLTAGE PANELS TO REMAIN OPERATIONAL TO POWER HEAT PUMPS.
- ALL LOW VOLTAGE PANELS AND ASSOCIATED TRANSFORMERS TO BE REMOVED FROM
- FIRE ALARM CONTRACTOR TO DISCONNECT DEVICES FROM PANEL AS NEEDED. PLACE ITEMS IN A MARKED BOX AND GIVE IT TO BUILDING CHIEF ENGINEER. NECESSARY EMERGENCY/LIFE SAFETY LIGHTING TO REMAIN.
- EXIT SIGNS TO REMAIN AS NEEDED. REMOVE FLOOR OUTLETS INCLUDING ANY RELATED ACCESSORIES AND CONDUITS ON FLOOR BELOW - PATCH HOLE TO MEET FIRE RATING.

MECHANICAL DEMO NOTES

CAREFULLY REMOVE ALL THERMOSTATS AND TEMPERATURE SENSORS AT WALLS TO BE DEMOLISHED AND RE-CONNECT TO MAINTAIN HEAT PUMPS OPERATIONAL. ALL EXISTING HEAT PUMPS TO REMAIN OPERATIONAL AND IN TACKED (INCLUDING POWER,

CONDENSATE, AND CONDENSER WATER PIPING, ETC ALL DUCT WORK AND GRILLS TO BE REMOVED.

PLUMBING DEMO NOTES

AT EXISTING TENANT AREAS, THE NOTED PLUMBING FIXTURES TO BE REMOVED SHALL BE REMOVED AND PIPING SHALL BE CAPPED ABOVE FLOOR.

DEMOLITION KEY NOTES

- REMOVE EXISTING CEILING, LIGHTING FIXTURES AND ALL RELATED ACCESSORIES IN AREAS TO BE DEMOLISHED.
- REMOVE EXISTING DOOR(S), FRAME, AND ALL RELATED ACCESSORIES. SALVAGE DOORS FOR POSSIBLE REUSE. COORDINATE WITH BUILDING MANAGEMENT FOR STORAGE.
- REMOVE EXISTING METAL STUD PARTITION AS DESIGNATED ON WALL LEGEND. REMOVAL SHALL INCLUDE ANY AND ALL GYPSUM BOARD, BASE AND TRIM, METAL STUDS, TOP AND BOTTOM RUNNERS AND ANY EXISTING BRACING AND BLOCKING THAT MAY BE PRESENT. SEE ARCH. DWGS. FOR HEADER HEIGHT TO REMAIN.
- REMOVE EXISTING LIGHTING FIXTURES AND ALL RELATED ACCESSORIES.
- REMOVE EXISTING BUILT-IN CABINETS, COUNTERS AND ALL RELATED ACCESSORIES. REMOVE EXISTING SINK AND ALL RELATED PLUMBING. CAP PIPES 6" ABOVE FLOOR.
- REPAIR ALL EXISTING FLOOR FINISH AND BASE.
- REMOVE EXISTING SPEAKERS AND REPLACE CEILING TILES FROM DEMOLITIONED CEILINGS TO MATCH CEILING TO REMAIN.
- REMOVE EXISTING FLOORING
- REMOVE EXISTING CHAIRRAIL REMOVE EXISTING WALLCOVERING AND PREPARE WALLS FOR NEW PAINT FINISH
- REMOVE EXISTING FALSE COLUMN
- LIGHT FIXTURES BEING REMOVED SHOULD BE STOCKPILED FOR FUTURE USE. SEE REF. CEILING PLAN FOR AMOUNT AND LOCATIONS.

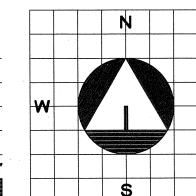
WALL LEGEND

EXISTING WALL TO BE DEMOLISHED

EXISTING PARTITION WALL TO REMAIN

DEMOLITION PLAN

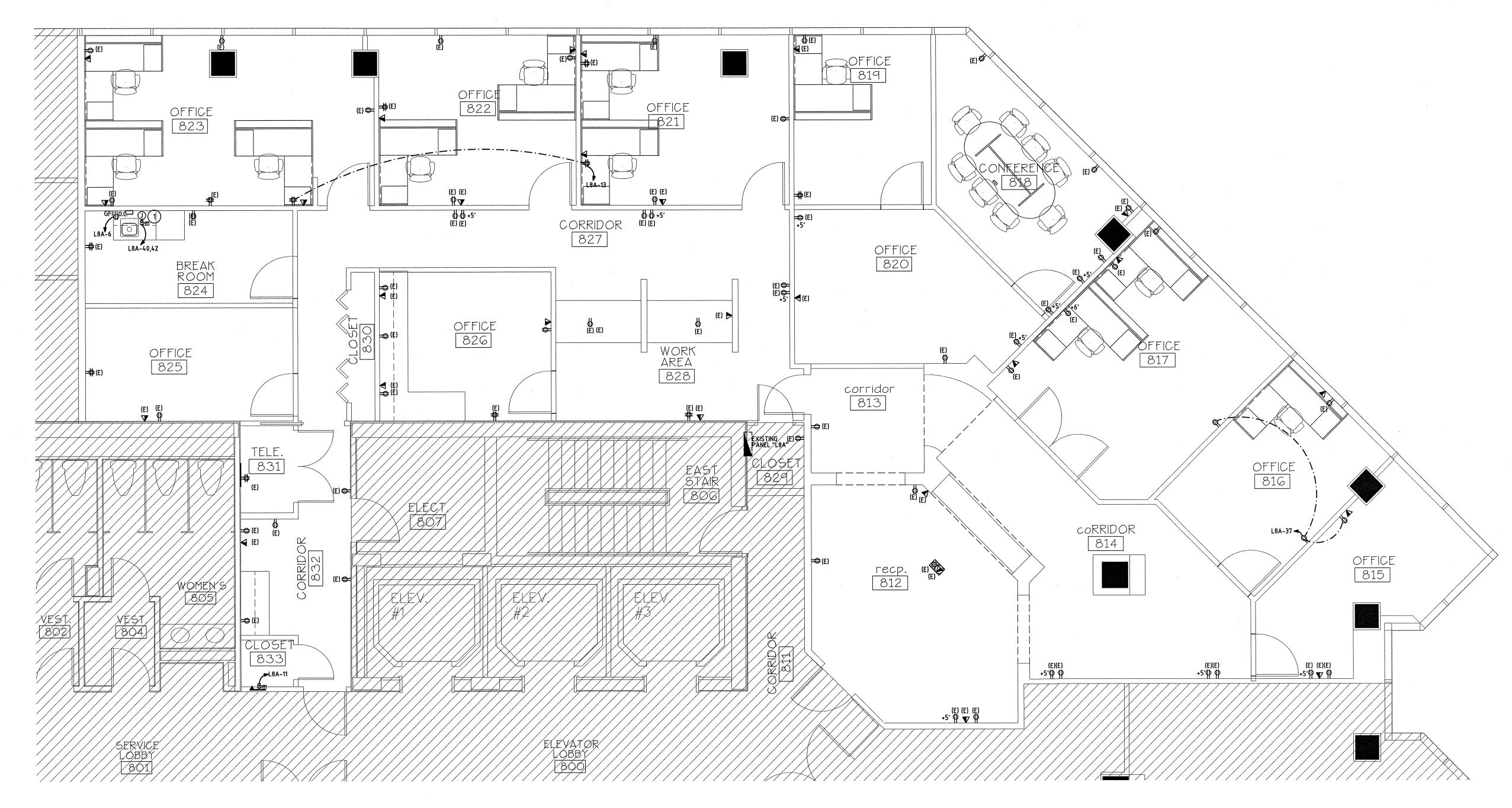
SCALE: 1/4" = 1'-0"

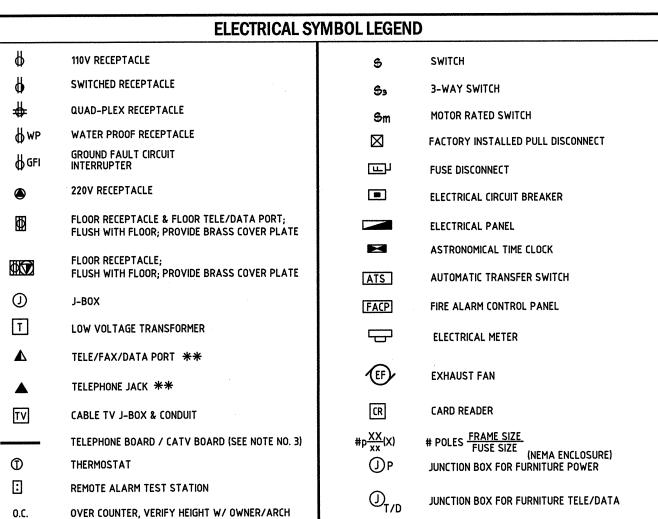


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E1.





KEY NOTES

water heater. Coordinate exact location and REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN.

CEILING IS COMMON PLENUM NO COMBUSTIBLE MATERIAL ALLOWED

CONTRACTOR TO COORDINATE ALL FINAL LOCATIONS AND TYPES OF ALL DEVICES AND EQUIPMENT WITH ARCHITECT PRIOR TO CONSTRUCTION.

COORDINATION NOTE

2. ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE STANDARD WHITE DECORA TYPE.

NO SYMBOL NEW

LOW VOLTAGE NOTE

** PROVIDE 3/4"C WITH PULL WIRE. STUB ABOVE CEILING WITH A BOX.

CONTRACTOR TO COORDINATE LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE WIRING AND TELEPHONE/DATA/TV DEVICES WITH OWNER PRIOR TO CONSTRUCTION.

EXISTING TO REMAIN

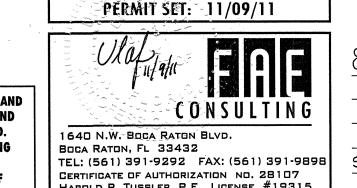
NOTES: 1. ALL SYMBOLS MAY NOT BE USED FOR THIS PROJECT

FIRE RATING NOTE

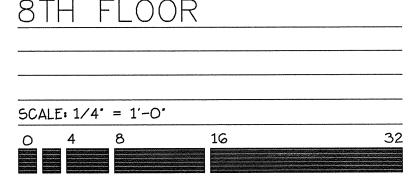
ALL RECEPTACLES PENETRATING FIRE RATED WALLS SHALL BE PROVIDED WITH U.L. APPROVED FIRE RATED RECEPTACLE BOXES. (EQUAL TO WALL FIRE RATING - SEE ARCHITECTURAL DRAWINGS)

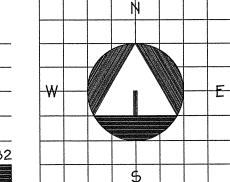
PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND HE SHALL INCLUDE IN HIS BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION.

NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.

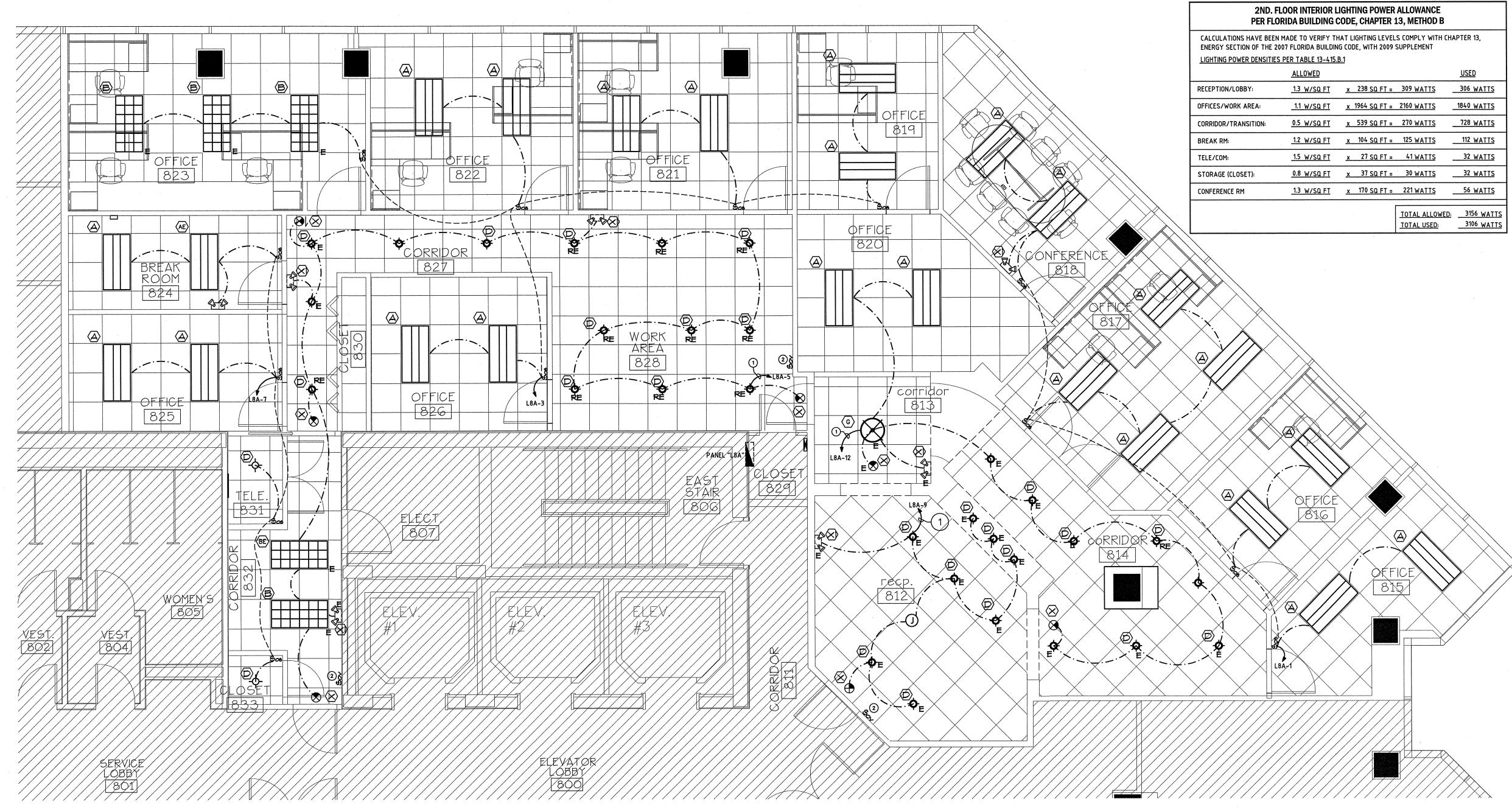


HAROLD R. TUSSLER, P.E. LICENSE #19315 URSULA IAFRATE, P.E. LICENSE #73122 E-MAIL: INFO@FAECONSULTING.COM





(E)



	LIC	HTING F	IXTURE SCH	EDULE OR EQUAL							
TYPE	TYPE MFG/MOD NO LAMP MOUNTING DESCRIPTION										
(A)	DAYBRITE "ARIOSO SERIES" 2AVG228-PMW-UNV-EB10R	2-28T5	RECESSED	2'x4' FLUORESCENT DIRECT/INDIRECT							
₿	EXISTING	2-32T8	RECESSED	2'x4' FLUORESCENT							
(D)	EXISTING FLUORESCENT DOWNLIGHT	1-32DTT	RECESSED	OPEN REFLECTOR DOWNLIGHT, CLEAR TRIM, AND SPECULAR LOW IRIDESCENT FINISH							
©	EXISTING PENDANT IN CORRIDOR	CALCULATED @ 200W	PENDANT	· ·							
\otimes	MCPHILBEN (SHALL MATCH 8th FLOOR) COLOR RED	INCLUDED	EXIT LIGHT	LED EXIT LIGHT - COLOR RED W/ 90 MIN. BATTERY PACK							
\otimes	MCPHILBEN (SHALL MATCH 8th FLOOR) COLOR RED	INCLUDED	WALL	EMERGENCY BATTERY PACK W/ 90 MIN. BATTERY PACK							

1. PROVIDE ELECTRONIC BALLAST FOR ALL FLUORESCENT LAMPED FIXTURES.

- 2. FLUORESCENT LAMP COLOR TEMPERATURE SHALL BE 3500K.
- 3. SEE LIGHTING PLAN FOR EXIT SIGN CHEVRON REQUIREMENTS AND NUMBER OF FACES. 5. COORDINATE ALL LIGHTING FIXTURE TYPES WITH ARCHITECT PRIOR TO BID/PURCHASE.
- 6. ALL EMERGENCY LIGHTING TEST BUTTONS TO BE MOUNTED INSIDE LIGHT FIXTURE.

NOTES TO CONTRACTOR:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE FINAL LOCATION OF ALL FIXTURES, DEVICES, ETC.

- 2. VERIFY LIGHTING REQUIREMENTS WITH OWNER/VENDOR PRIOR TO BID & CONSTRUCTION.
- 3. ALL SWITCHES AND THERMOSTATS SHALL BE MOUNTED @ 42" A.F.F. COORDINATE EXACT LOCATIONS ON WALL IN FIELD WITH ARCHITECT PRIOR TO ROUGH IN.
- 4. ALL SWITCH AND OUTLET PLATES SHALL MATCH THE COLOR OF SWITCH AND OUTLET PLATES ON 20TH FLOOR.

LIGHTING CONTROL SYMBOL LEGEND TIME CLOCK "TC-1" OCCUPANCY SENSOR SWITCH LEVITON OSSMT-MDW \$3 3-WAY SWITCH \$₄ 4-WAY SWITCH SD DIMMER SWITCH TIMER SWITCH FOR EXHAUST FAN OVERRIDE SWITCH LEVITON LV240 OCCUPANCY SENSOR LEVITON OSC10-R RE RELOCATED LIGHT FIXTURE **E** EXISTING 1. ALL SYMBOLS MAY NOT BE USED FOR THIS PROJECT.

LIGHTING KEY NOTES

WIRE CIRCUIT THROUGH ELECTRONIC TIME CLOCK "TC-1".

OVER-RIDE TIME "OFF" FOR CIRCUITS "L8A-5, L8A-9, L8A-12"

SEE THIS SHEET FOR DETAILS.

PROVIDE DIGITAL MOMENTARY SWITCH TO
OVER-RIDE TIME "OFF" FOR CIRCUITS "L8A-5

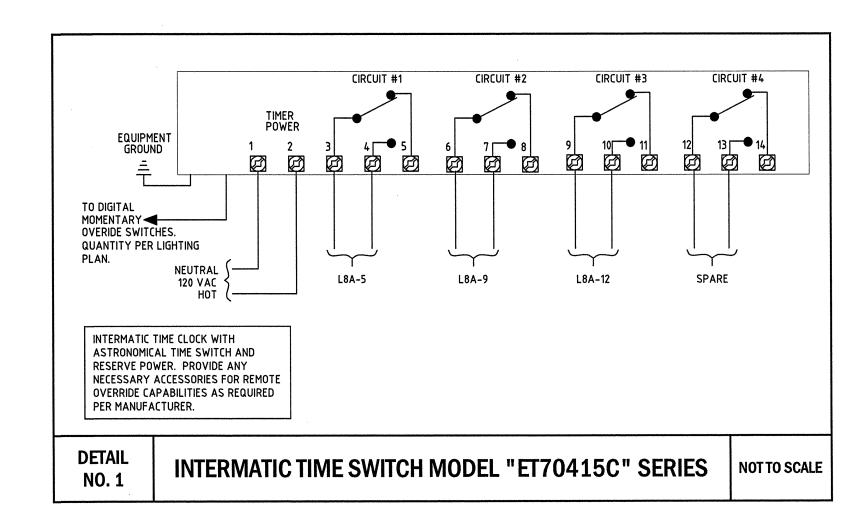
GENERAL LIGHTING NOTES 1. ALL EXIT, EMERGENCY, AND BATTERY PACKS IN FLUORESCENT FIXTURES TO BE WIRED AHEAD OF CONTROL SWITCH. 2. IF APPLICABLE, ALL DIMMER SWITCHES SHALL HAVE A PRESET MINIMUM RATING OF 1.0 KW. 3. ALL FIXTURE COUNTS, SELECTIONS, AND EXACT LOCATIONS MUST BE VERIFIED WITH OWNER/ARCHITECT PRIOR TO PURCHASE. 4. CONTRACTOR TO VERIFY IF ANY LOW VOLTAGE LIGHT FIXTURES REQUIRE STEP-DOWN TRANSFORMERS, QUANTITY AND LOCATION TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. 5. ALL FIXTURES TO HAVE U.L. CERTIFICATION. 6. ALL LUMINAIRES SHALL COMPLY WITH SECTION 410.73.G OF THE

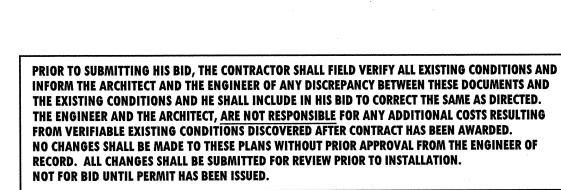
ENERGY COMPLIANCE NOTE

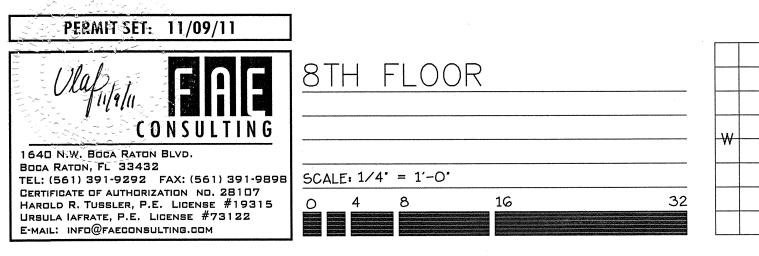
1. OCCUPANCY SENSORS SHALL BE THE MEANS OF AUTOMATIC LIGHTING SHUTOFF FOR NEW AREAS PER FBC 13-415.AB.1. OCCUPANCY SENSORS MUST TURN LIGHTS OFF WITHIN 30 MINUTES AFTER AN OCCUPANT LEAVES THE SPACE.

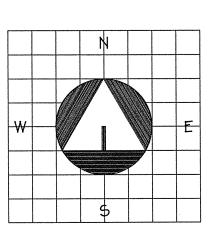
2. RECORD DRAWINGS OF INSTALLATION AND OPERATION MANUALS ARE TO BE PROVIDED TO THE OWNER WITHIN 30 DAYS AS SPECIFIED IN THE FLORIDA BUILDING CODE SECTION 13-413.1.ABC.2.







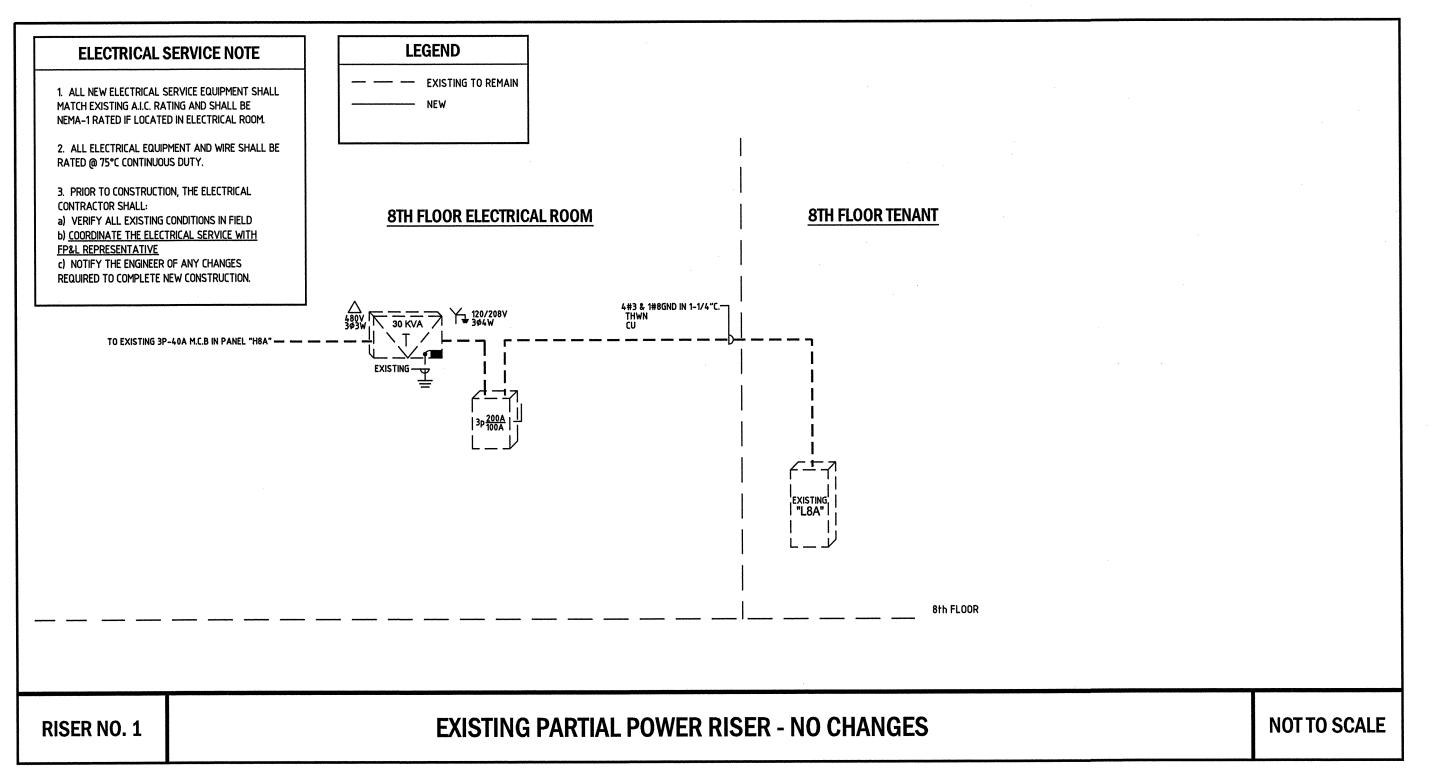




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N	IFG.	EXISTING		YPE	MAIN	LUGS ON	LY					PANEL	RATING		225 AMPS			
7	OLTS	208/120V	3¢4W F	PANEL	"L8A"							POS	42					
	BUS KVA	\	LOAD	00110	WIRE	5015	41400	OLCT	DUG	OKT	AMDO	DOLE	WIRE	COND.	LOAD		BUS KVA	
Α	В	С	LOAD	COND.	SIZE	POLE	AMPS	CKT.	BUS	CKT.	AMPS	POLE	SIZE			Α	В	С
0.7			LIGHTING - OFFICES ②		#12	1	20	1		2	20	1	#12		KITCHEN RECEP	1.0		
	0.7		LIGHTING - OFFICES ②		#12	1	20	3		4	20		_		SPARE		-	
		0.7	LIGHTING - WORK AREA 3	1/2"	#12	1	20	5		6	20	1	#12		KITCHEN RECEP	② 		1.0
0.4			LIGHTING - BREAK RM, OFFICES@		#12	1	20	7		8	20	11	#12		DISPOSAL RECEP	1.2		
	0.5		RECEPTION LTS ②		#12	1	20	9		10	20	11	#12		LOUNGE RECEPS	<u> </u>	1.0	
		0.6	MOTORIZED DAMPER ①	1/2"	#12	1	20	11		12	20	1	#12		RECEPTION LTS	② —		0.6
0.8			RECEPT. – OFFICES	1/2"	#12	1	20	13		14	20	11	#12		DISPLAY RM RECEPS	0.6		
			SPARE	-	-	1	20	15		16	20	1	#12	1/2"	CONFERENCE RM RECEP	0 —	0.8	
		0.6	DISPLAY LTS ①		#12	1	20	17		18	20	1	#12		HALL RECEPS	0		0.6
0.6			DISPLAY LTS ①		#12	1	20	19		20	20	1	#12		OFFICE 3 RECEPS	0.6		
	0.8		OFFICE 1 RECEPS ①		#12	1	20	21		22	20	1	#12	1/2"	COPY FILE RM RECEPS	<u> </u>	0.6	
		0.8	OFFICE 2 RECEPS ①	.,	#12	1	20	23		24	20		-	-	SPARE			
0.8			WEST WALL LOUNGE RECEPS ①	1/2"	#12	1	20	25		26	20	1	#12	1/2"	COPY MACHINE	1.0		
	0.8		AV RECEP ①	1/2"	#12	1	20	27		28	20	-	-	-	SPARE		-	
		1.0	KITCHEN RECEP ①	1/2"	#12	1	20	29		30	20	-	-	-	SPARE			-
0.8			RECEPTION NORTH RECEPS ①	1/2"	#12	1	20	31		32	20	1	#12		KITCHEN RECEPS	1.0		
			SPARE	-	-	1	20	33		34	20	1	#12	1/2"	IT ROOM	<u> </u>	1.0	
		0.6	STAFF STATIONS ①		#12	1	20	35		36	20	_	-		SPARE			-
0.4			RECEPT. – OFFICES 3	1/2"	#12	1	20	37		38	-	-	-	-	SPACE			
	-		SPACE	-	-	-	-	39		40	30	2	#10	3/4"	TANKLESS WATER HEATER	3	1.8	
		-	SPACE	-	-	-		41		42				<u> </u>				1.8
						-								-	MARKS & KEY NOTES:			
														0	EXISTING BRANCH CIRCUIT AND BREAKER TO REMAIN.	CIRCUIT		
KVA	ØA	9.1	KVA ØB 8.0		KV	A ØC	8.3							2	EXISTING BRANCH CIRCUIT WIT FOR THIS PROJECT.	H LOAD MOD	FIED	
_	la 75	.8 AN	Ib 66.7 AME	PS —	- 1	69.2	2 AM	PS —						3	PROVIDE NEW CIRCUIT BREAKE INSTALL IN EXISTING SPACE IN CONNECT NEW BRANCH CIRCUIT	R AS INDICA PANEL AND FOR OPERA	TED, TION.	
														_	PROVIDE NEW BRANCH CIRCUIT TO EXISTING SPARE BREAKER	AND CONNE	CT	
FEED	ER SIZE	EXISITN	G	CO	NDUIT SI	ZE 1-1/	′4"	-			-		MOL	JNT RECE	ESSED MIN. A.I.C.	EXISTING	·	



ELECTRICAL SPECIFICATIONS

- DO NOT SCALE THE ELECTRICAL DRAWING. REFER TO THE ARCHITECTURAL PLAN AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT AND CONFIRM WITH OWNERS
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2008 EDITION OF THE NATIONAL ELECTRICAL CODE, 2008 EDITION OF NFPA 70, 2005 EDITION OF NFPA 72, 2003 EDITION OF NFPA 75, 2006 EDITION OF NFPA 101, 2005 EDITION OF NFPA 110, AND 2007 EDITION OF FBC W/ 2009 SUPPLEMENT. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE COPPER, WITH "THHN" INSULATION FOR SIZE #10 AND SMALLER. CONDUCTORS LARGER THAN #10 SHALL HAVE "THWN" INSULATION. ALL CONDUCTORS IN WET LOCATIONS MUST HAVE "THWN" INSULATION. ALL CONDUCTORS #10 AND SMALLER MAY BE SOLID. ALL CONDUCTORS #8 AND LARGER SHALL BE
- STRANDED. ALL CONDUCTORS MUST COMPLY WITH ARTICLE 310 OF THE 2005 NEC. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED
- HUBS IN WET LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK MAKE, QUICK BREAK,
- WITH ENCLOSURES AS REQUIRED BY EXPOSURE.
- THESE PLANS DO NOT SHOW EVERY MINOR DETAIL OF CONSTRUCTION, THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND MEET ALL REQUIREMENTS NECESSARY FOR
- EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED IN ARTICLE 250, NATIONAL ELECTRICAL CODE. THE GROUNDING SYSTEM SHALL BE TESTED AND
- SHALL MEASURE A MAXIMUM OF 5 OHMS. PROVIDE A COPY OF THE TEST REPORT TO ENGINEER. ALL MATERIALS SHALL BE NEW AND SHALL BEAR U.L. LABELS WHERE APPLICABLE.
- 9. ALL WORK SHALL BE PERFORMED BY A LICENCED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANSHIP MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY ENGINEER/ARCHITECT MUST BE A CONDITION OF THE SUBCONTRACTOR. 10. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF
- POWER, LIGHT COMPANY AND TELEPHONE COMPANY. 11. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZE. THE
- CONTRACTOR SHALL PROVIDE CIRCUITS TO SUIT JOB CONDITIONS.
- 12. SEE NOTES ON PLANS FOR OTHER REQUIREMENTS. 13. FURNISH AND INSTALL LIGHTING FIXTURES AND LAMPS AS CALLED FOR ON PLANS, OR AS SELECTED BY OWNER.
- 14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROCESS OF CONSTRUCTION. 15. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND
- SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY PHASE OF THE INSTALLATION WHICH MAY BE DAMAGED.
- 16. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK. 17. CHECK ALL EQUIPMENT FOR PROPER VOLTAGE, PHASE, AND CURRENT BEFORE CONNECTION
- 18. ELECTRICAL CONTRACTOR SHALL CHECK AND VERIFY EQUIPMENT FURNISHED AGAINST THOSE SPECIFIED OR INTENDED AND REVISE BRANCH CIRCUITS AS MAY BE REQUIRED WITH PRIOR APPROVAL OF ENGINEER/ARCHITECT. AIR CONDITIONING EQUIPMENT AND CONTROLS SPECIFICATION
- ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONTROL RACEWAY (CONDUIT), WIRE INSTALLATION, CONNECTIONS ETC. IN ACCORDANCE WITH WIRING DIAGRAMS ON AIR
- A/C / ELECTRICAL PLANS OR DIAGRAMS FURNISHED BY MANUFACTURER OF THE EQUIPMENT. ALL POWER WIRING FOR THE AIR CONDITIONING EQUIPMENT SHALL BE FURNISHED,
- INSTALLED AND CONNECTED UNDER THIS SECTION OF THE SPECIFICATION. MECHANICAL CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR ALL AIR CONDITIONING EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONECTIONS TO AIR CONDITIONING EQUIPMENT PER MANUFACTURERS SPECIFICATIONS.
- AIR CONDITIONING EQUIPMENT INCLUDES CONDENSOR, COMPRESSOR AND FAN, FAN COIL UNITS, ELECTRICAL STRIP HEATER, THERMOSTAT, ETC.

SCOPE OF WORK

THE SCOPE OF ELECTRICAL WORK SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:

1. ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL THE BRANCH CIRCUITS BEING FED FROM EXISTING

AND THESE CONDITIONS AND HE SHALL INCLUDE IN HIS BID TO CORRECT THE SAME AS DIRECTED. FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER THE CONTRACT HAS BEEN AWARDED.

2. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BID AND INSTALLATION, INFORM THE ENGINEER OF RECORD OF ANY DISCREPANCY BETWEEN THE DOCUMENTS THE ENGINEER AND THE ARCHITECT ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING

3. ELECTRICAL CONTRACTOR SHALL KEEP AS-BUILTS AND SUBMIT TO ENGINEER OF RECORD FOR REVIEW. ALL CHANGES SHALL BE FORWARDED A MINIMUM OF (2) WEEKS PRIOR TO FINAL INSPECTION. ANY EXPENSES, SUCH AS REVISIONS OR AS-BUILTS, NECESSARY FOR FINAL C.O. SHALL BE AT THE EXPENSE OF THE OWNER.

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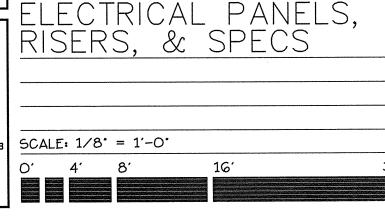
NTERNA TRIDGE CENTILLER DR., SUIT

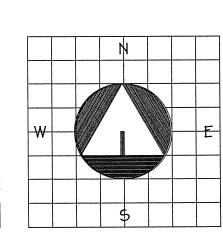
E3.1

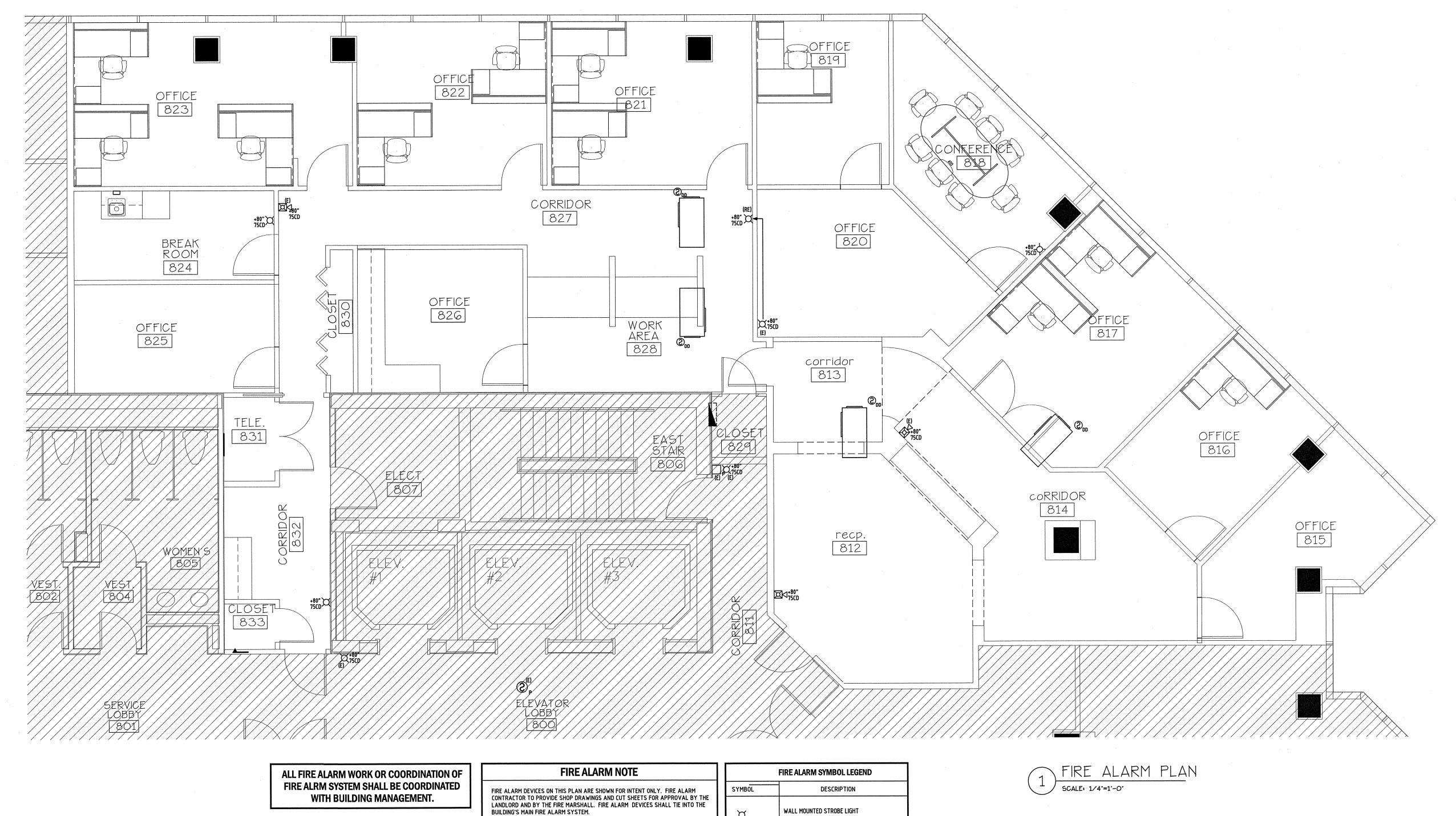
PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND HE SHALL INCLUDE IN HIS BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION. NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.



1640 N.W. BOCA RATON BLVD. BOCA RATON, FL 33432 TEL: (561) 391-9292 FAX: (561) 391-9898
GERTIFICATE OF AUTHORIZATION NO. 28107
HAROLD R. TUSSLER, P.E. LICENSE #19315 URSULA IAFRATE, P.E. LICENSE #73122 E-MAIL: INFO@FAECONSULTING.COM







CEILING IS COMMON PLENUM NO COMBUSTIBLE MATERIAL ALLOWED

> ALL HVAC UNITS TO TIE INTO THE FIRE ALARM SYSTEM AND HAVE GLOBAL SHUT DOWN.
> COORDINATE WITH BUILDING ENGINEER.

SPRINKLER NOTE BUILDING IS FULLY SPRINKLED, THEREFORE SMOKE DETECTORS ARE NOT REQUIRED AND ONLY (1) PULL STATION IS REQUIRED PER BUILDING.

GENERAL NOTE

PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS. THE ENGINEER IS NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. (CD AS INDICATED) WALL MOUNTED HORN/STROBE (CD AS INDICATED)

PULL STATION SMOKE DUCT DETECTOR (GROUND TEST STATION) (CONTROL MODULE)

 \boxtimes

PHOTOELECTRIC SMOKE DETECTOR (STANDARD BASE WITH TRIM RING) (ADDRESSABLE MONITOR MODULE) FIRE SMOKE DAMPER EXISTING DEVICE TO REMAIN (RE) RELOCATED DEVICE NEW DEVICE NO SYMBOL

PERMIT SET: 11/09/11

TEL: (561) 391-9292 FAX: (561) 391-9898 CERTIFICATE OF AUTHORIZATION NO. 28107

HAROLD R. TUSSLER, P.E. LICENSE #19315

URSULA IAFRATE, P.E. LICENSE #73122 E-MAIL: INFO@FAECONSULTING.COM

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

1640 N.W. BOGA RATON BLVD. BOGA RATON, FL 33432

ALL NEW DEVICES SHALL TIE INTO BUILDING'S EXISTING FIRE ALARM SYSTEM. ALL FIRE ALARM DEVICES SHALL MATCH EXISTING BUILDING'S STANDARDS.

PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND HE SHALL INCLUDE IN HIS BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION. NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.

S FOR:
ASSETS
ADVISORY

NT IMPROVEMENTS
INTERNATIONAL
HBRIDGE CENTER
AGLER DR., SUITE 800
DRIDA

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GENERAL NOTES

- THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC ONLY. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW EVERY DETAIL OF CONSTRUCTION. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR COMPLETION AS INDICATED ON THESE DRAWINGS
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE FAMILIAR WITH THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION
- CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE
- ALL DIMENSIONS, SPECIFICATIONS AND NOTES PROVIDED HEREIN SHALL BE VERIFIED BY EACH CONTRACTOR PRIOR TO PERFORMANCE OF THE WORK, ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE
- WHEN TWO OR MORE REQUIREMENTS OR STANDARDS ARE SPECIFIED ESTABLISHING DIFFERENT OR CONFLICTING LEVELS OF QUALITY, THE MOST STRINGENT REQUIREMENT IS INTENDED AND WILL BE ENFORCED
- CONTRACTOR SHALL MAKE NO CHANGES OR SUBSTITUTIONS WITHOUT WRITTEN APPROVAL BY ADDENDUM FROM
- CONTRACTOR SHALL MEET WITH THE BUILDING OWNER OR MANAGER PRIOR TO THE BID IN ORDER TO OBTAIN A COPY OF THE BUILDING STANDARD GUIDELINES AND TO DISCUSS THE BUILDING MANAGEMENTS REQUIREMENTS FOR PROTECTION OF PUBLIC SPACES, DAILY CLEANING, CONSTRUCTION, STAGING, MATERIAL, DELIVERIES, LOCATION OF CONSTRUCTION DUMPSTERS, PARKING, ETC. THE COST TO MEET THESE REQUIREMENTS SHALL BE INCLUDED IN BID
- REPLIES TO ALL REQUESTS FOR CLARIFICATION WILL BE ISSUED TO ALL PRIME BIDDERS, AS ADDENDA TO THE DRAWINGS AND SPECIFICATIONS, AND WILL BECOME PART OF THE CONTRACT. THE ARCHITECT AND OWNER WILL NOT BE RESPONSIBLE FOR ORAL CLARIFICATION.
- ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF APPLICABLE LOCAL, STATE AND FEDERAL CODES
- IO. CONTRACT FOR CONSTRUCTION SHALL BE AIA DOCUMENT AIOI, STANDARD FORM FOR AGREEMENT BETWEEN OWNER AND CONTRACTOR, STIPULATED SUM - 1997 EDITION AND SHALL INCORPORATE THE 1997 EDITION OF DOCUMENT A201, GENERAL CONDITIONS.
- GENERAL CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE ARCHITECT AND OWNER FOR REVIEW
- . GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE AND OBTAIN ALL PERMITS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE WORK AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS
- 13. GENERAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL FEES ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, INCLUDING BUT NOT LIMITED TO PERMIT FEES AND ALL SUBCONTRACTOR PERMIT FEES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COORDINATING ALL ASPECTS OF THE CONSTRUCTION INCLUDING CROSS REFERENCING ALL OBVIOUSLY RELATED DOCUMENTS AND DRAWINGS. SHOULD PROBLEMS ARISE OUT OF A LACK OF COORDINATION IN AREAS THAT COULD HAVE REASONABLY BEEN FORESEEN, NO ADDITIONAL PAYMENT SHALL BE WARRANTED OR APPROVED BY THE OWNER OR THE ARCHITECT. SHOULD THE SERVICES OF THE ARCHITECT AND/OR HIS CONSULTANTS BE REQUIRED TO REMEDY OR REVISE THE CONSTRUCTION DUE TO ERRORS AND/OR OMISSIONS BY THE CONTRACTOR, COMPENSATION FOR THESE SERVICES SHALL BE MADE BY THE GENERAL CONTRACTOR THROUGH THE CHANGE ORDER PROCESS OR BY SEPARATE AGREEMENT WITH THE ARCHITECT AND/OR HIS CONSULTANTS.
- 5. ALL WORK DETAILED IN THESE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR WHO SHALL SUBCONTRACT AND/OR ASSIGN PORTIONS OF THE WORK TO THE MOST QUALIFIED TRADE, FAILURE BY ANY SUBCONTRACTOR TO INCLUDE CERTAIN WORK REQUIRED SHALL NOT RELIEVE THE GENERAL CONTRACTOR OF HIS RESPONSIBILITY AS PART OF THE CONTRACT FOR CONSTRUCTION TO PROVIDE A
- 6. CONTRACTOR IS TO COORDINATE AND ORGANIZE THE CONSTRUCTION PROCESS AND COMPLETE SAME IN A MANNER WHICH LEAST IMPACTS THE ADJOINING COMMON AREAS, IN ORDER TO MINIMIZE INCONVENIENCE TO THE
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO EMPLOY THOSE CONTROL MEASURES NECESSARY TO ENSURE THAT THE BUILDING COMMONS AREAS AS WELL AS EXISTING TENANT SPACES ARE NOT IMPACTED BY AIRBORNE CONTAMINANTS CAUSED BY THE CONSTRUCTION OF THE TENANT SPACE. THE METHODS EMPLOYED SHALL COMPLY WITH THE INDOOR AIR QUALITY (IAQ) GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION IST EDITION, PUBLISHED BY SMACNA. QUALITY CONTROL METHODS USED TO MONITOR AIR QUALITY, I.E. TESTING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- B. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW. SHOP DRAWINGS SHALL BE OF SUFFICIENT DETAIL AND SCALE TO DETERMINE COMPLIANCE WITH THE INTENT OF THE SPECIFIED QUALITY STANDARDS. INCOMPLETE SHOP DRAWINGS WILL BE RETURNED TO THE GENERAL CONTRACTOR WITHOUT REVIEW. THE GENERAL CONTRACTOR SHALL SUBMIT A SHOP DRAWING SCHEDULE INDICATING THE TYPE AND CRITICAL RETURN DATES TO THE ARCHITECT FOR REVIEW. THE RETURN OF SHOP DRAWINGS TO THE GENERAL CONTRACTOR, WITH OR WITHOUT COMMENT, DOES NOT
- RELIEVE THE GENERAL CONTRACTOR AND THEIR SUB CONTRACTORS OF THE RESPONSIBILITY TO CONSTRUCT THE BUILDING PER THE PLANS AND SPECIFICATIONS, EVEN THOUGH THE SHOP DRAWINGS MAY INCORRECTLY DEVIATE FROM THE CONSTRUCTION DOCUMENTS. IN ADDITION, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS CONTAINED IN THE SHOP DRAWINGS. THE ARCHITECT, THEIR CONSULTANTS OR THE OWNER ARE NOT RESPONSIBLE FOR ANY CORRECTIVE CONSTRUCTION RESULTING FROM SHOP DRAWINGS THAT DEVIATE FROM THE CONTRACT DOCUMENTS.
- 19. A 'PUNCH LIST' SHALL BE PREPARED BY THE CONTRACTOR LISTING ALL ITEMS WHICH NEED TO BE COMPLETED, MODIFIED, CORRECTED OR REPLACED AND SUBMITTED TO ARCHITECT/OWNER. THE ARCHITECT SHALL THEN VISIT THE SITE TO REVIEW AND, IF THE LIST IS NOT REASONABLY COMPLETE, SHALL DIRECT THE CONTRACTOR TO COMPLETE THE LIST. THE FINAL PUNCH LIST SUBMITTED BY THE CONTRACTOR SHALL BE REVIEWED AND SUPPLEMENTED BY THE ARCHITECT/OWNER.
- 20. CONTRACTOR SHALL DELIVER TO OWNER PRIOR TO FINAL PAYMENT ALL GUARANTIES, WARRANTIES AND TWO COPIES OF ALL MANUALS AND OPERATING INSTRUCTIONS AND ARRANGE TO GIVE PHYSICAL DEMONSTRATION OF ALL EQUIPMENT TO OWNER OR HIS REPRESENTATIVE.
- 21. ALL LABOR AND MATERIALS SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION, EXCEPT LONGER AS REQUIRED IN THE DRAWINGS AND/OR SPECIFICATIONS.
- 22. ALL NEW CONSTRUCTION MUST MEET FEDERAL AND STATE BARRIER FREE REQUIREMENTS.
- 23. MATERIAL OR SYSTEMS SHALL BE INSTALLED ACCORDING TO EXACT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 24. ALL MATERIALS USED DURING CONSTRUCTION SHALL BE NEW AND FREE FROM BLEMISHES. NO USED MATERIALS WILL BE ALLOWED, EXCEPT AS NOTED HEREIN. COORDINATE WITH ARCHITECT AND OWNER/REPRESENTATIVE IN
- 25. DELIVERY AND STORAGE OF ALL MATERIAL SHALL BE ACCEPTABLE TO MANUFACTURER'S PRODUCT, REVIEW BY THE ARCHITECT AND SHALL PROVIDE COMPLETE PROTECTION OF PRODUCT.
- 26. GENERAL CONTRACTOR SHALL COORDINATE DIRECTLY WITH OWNER/TENANT ALL WORK BY "OWNER" OR "TENANT" AS INDICATED ON PLANS AND ANY ATTACHED SPECIFICATIONS.
- 27. GENERAL CONTRACTOR SHALL VERIFY FINAL SELECTION OF ALL FINISHES WITH ARCHITECT AND OWNER/TENANT,
- 28. FIRE EXTINGUISHERS SHALL BE PROVIDED BY GENERAL CONTRACTOR AND LOCATED AS REQUIRED BY CODE
- 29. CONCRETE SLABS SHALL BE LEVELED AND PREPARED TO RECEIVE FLOOR FINISH PER FINISH SCHEDULE.
- 30. WHEREVER DISSIMILAR METALS CONTACT EACH OTHER, AND ARE SEPARATED FURTHER ON THE BELOW SCALE THAN BY A SINGLE INTERMEDIATE METAL, THE CONTACTING SURFACES SHALL BE INSULATED FROM EACH OTHER BY A BITUMINOUS COATING, 15# ASPHALT SATURATED FELT OR OTHER ARCHITECT APPROVED MEANS. METALS ARRANGED IN ORDER OF GALVANIC ACTIVITY: ALUMINUM, ZINC, GALVANIZED IRON, TIN ON STEEL, LEAD (HARD), STAINLESS STEEL, COPPER, MONEL.
- BI. GENERAL CONTRACTOR SHALL COORDINATE AND INSTALL ALL NECESSARY BACKING SUPPORTS FOR CABINETRY, SHELVING, TOILET ACCESSORIES, PLUMBING/LIGHTING FIXTURES, ETC.
- 32. ALL WOOD FRAMING AND BLOCKING LOCATED WITHIN CONCEALED SPACES, SUCH AS PARTITIONS ABOVE CEILINGS, ETC., SHALL BE FIRE RETARDANT.
- 33. ALL GYPSUM BOARD SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE UNITED STATES GYPSUM "GYPSUM CONSTRUCTION HANDBOOK"
- 34. ALL GYPSUM BOARD SHALL RECEIVE A SLICK FINISH. (LEVEL 4, SMOOTH TEXTURE), UNLESS OTHERWISE NOTED. 35. AT WALLS SCHEDULED TO RECEIVE WALLCOVERING SHALL BE PREPARED TO RECEIVE WALLCOVERING BY APPLYING A FLAT OIL BASE PRIMER TO PROVIDE FULL COVERAGE TO PROHIBIT 'TELEGRAPHING' THROUGH THE
- 36. GENERAL CONTRACTOR AND THE APPROPRIATE SUBCONTRACTORS SHALL COORDINATE THE LOCATION OF OUTLETS, SWITCHES, THERMOSTATS, ETC. WITH THE FURNITURE LAYOUT AND WITH CONSIDERATION GIVEN TO THE
- PLACEMENT OF ART, PICTURES, PLAQUES, ETC. THIS SHALL BE REVIEWED WITH THE ARCHITECT AND TENANT. 37. CONTRACTOR SHALL ADJUST EXISTING FIRE SPRINKLER SYSTEM AS REQUIRED BY CODE. ALL SPRINKLER HEADS SHALL BE FLUSH, FULLY CONCEALED TYPE, FIRE SPRINKLER SUB-CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS TO BUILDING DEPARTMENT AS REQUIRED.
- 38. PRIOR TO FINAL COMPLETION, CONTRACTOR SHALL THOROUGHLY CLEAN ALL SURFACES.
- 39. DIVERT DEMOLITION DEBRIS FROM DISPOSAL IN LANDFILLS AND INCINERATION FACILITIES, REDIRECT RECOVERED RESOURCES BACK TO THE MANUFACTURING PROCESS AND REUSABLE MATERIALS TO APPROPRIATE SITES. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO IDENTIFY THE MATERIALS TO BE DIVERTED FROM DISPOSAL AND CALCULATIONS IN WEIGHT OR VOLUME OF PERCENTAGE OF DEBRIS TO BE RECYCLED OR SALVAGED. CONTRACTOR TO ACHIEVE A MINIMUM OF 75% RECYCLED OR SALVAGED DEBRIS OR MORE.

Tenant Improvements for: INTERNATIONAL ASSETS ADVISORS

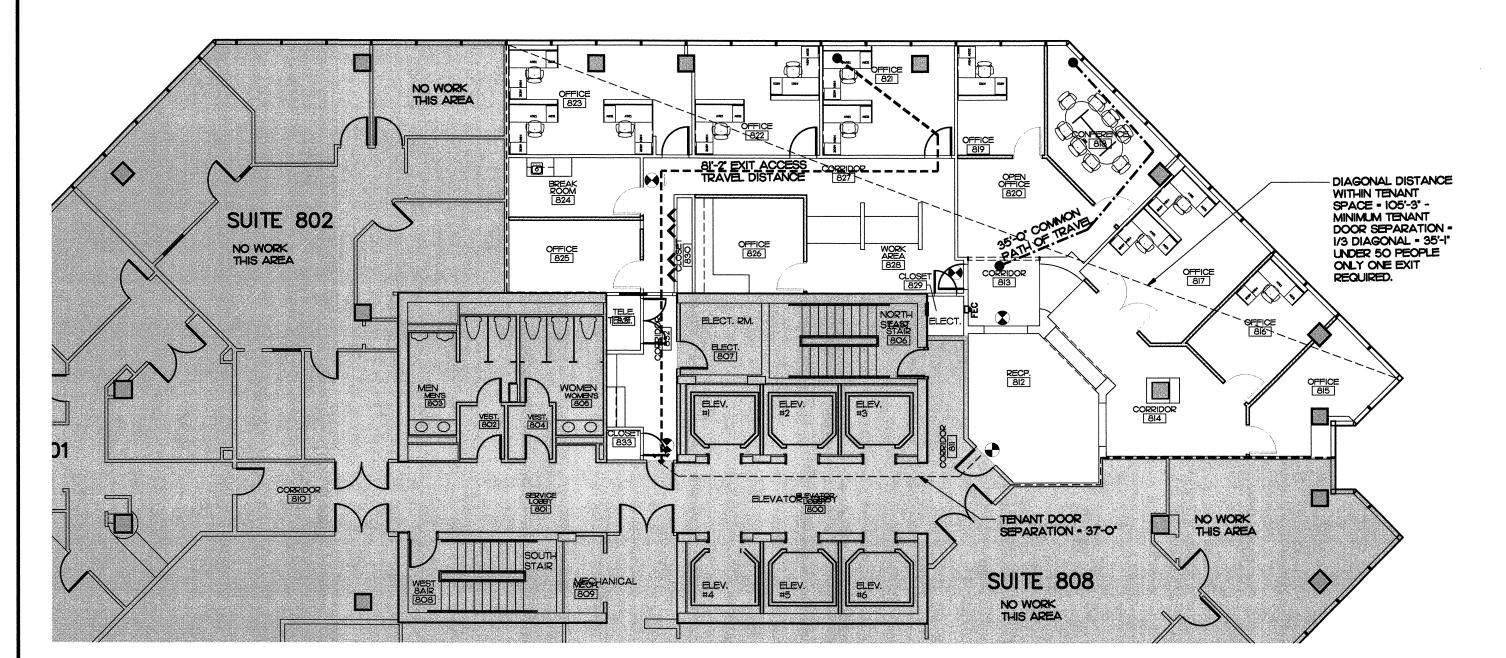
515 N. Flagler Drive Suite 800 West Palm Beach, Florida

Glidden Spina & Partners **Architects & Interior Design**

1401 FORUM WAY, SUITE 100 WEST PALM BEACH, FLORIDA 33401 561.684.6844

FAE Consulting MEP Engineer

1640 NW 2ND AVENUE BOCA RATON, FLORIDA 33432 TEL. 561.391.9292





MEANS OF EGRE	ESS ICHAP	. 10 FBC)	LIFE SAFETY LEGEND						
	ALLOWABLE	PROVIDED							
SUITE 800 - 3,116 S.F.				TRAVEL DISTANCE					
BUSINESS - 1/100 SF				COMMON PATH OF TRAVEL					
OCCUPANT LOAD				DEADEND CORRIDOR					
TABLE IOO4.I.2	3116 / 100 = 32	32		EXIT LIGHT					
				FIRE EXTINGUISHER CABINETS SHALL BE EQUAL TO LARSEN "ARCHITECTURAL"					
REQUIRED MEANS OF EGRESS	l l	2	FEC	SERIES MODEL NO. 2409 R2 RECESSED MOUNTED, SOLID DOOR STYLE, BLACK TYPE "A" LETTERS, STAINLESS STEEL FINISH					
MINIMUM CLEAR OPENING OF EXIT DOORS (SECTION 1008.I.)	32 IN.	34 IN.							
COMMON PATH OF EGRESS TRAVEL (SPRINGLERED)	100 FT.	35 FT.							
EXIT ACCESS TRAVEL DISTANCE (SPRINGLERED)	300 FT.	81'-2"							
DEAD ENDS (SPRINGLERED)	50 FT.	0							

LEVEL TRAVEL: 0.2 INCHES PER PERSON TRAVEL BY STAIRS: 0.3 INCHES PER PERSON

300' MAX. TRAVEL DISTANCE (NFPA 101, 38.2 & FBC TABLE 1004)

MAX. DEAD END: 50' (NFPA & FBC)
COMMON PATH OF TRAVEL: 100' MAX. (NFPA(100' MAX. (FBC)
NOT REQUIRED PER FBC 11-4.1.3 (9) FOR FULLY SPRINKLERED BUILDINGS

SCOPE OF WORK

THE SCOPE OF THE PROJECT INVOLVES THE INTERIOR RENOVATION OF EXISTING SUITE 800 AT 3,116 S.F

INDEX OF DRAWINGS

ARCHITECTURAL LIFE SAFETY PLANS

DEMOLITION PLAN FLOOR PLAN & REFL. CEILING PLAN FINISH & FURNITURE PLAN

A-2.0 DETAILS

MECHANICAL PLAN

MECHANICAL DATA, DTLS. & SPECS

PLUMBING

PLUMBING PLAN

POWER PLAN

LIGHTING PLAN ELECT. PANELS, RISERS & SPECS

FIRE ALARM

FIRE ALARM PLAN

CODE RESEARCH

-2007 FLORIDA BUILDING CODE / WITH 2009 REVISIONS/ SUPPLEMENTS -FLORIDA ACCESSIBILITY CODE

-NFPA IOI, LIFE SAFETY CODE 2006 EDITION

-NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS -2005 NFPA-70 2005 EDITION - NATIONAL ELECTRIC CODE

-2002 NFPA-72 2002 EDITION -2002 NFPA-13 2002 EDITION

CLASSIFICATION OF WORK:

2007 FLORIDA EXISTING BUILDING CODE W/ 2009 AMENDMENTS

SECTION 404 - ALTERATION = LEVEL II

OCCUPANCY:

CLASSIFICATION (TYPE) GROUP B (BUSINESS)

LOAD (SEE OCCUPANT LOAD CALCULATIONSON LS-I)

32 OCCUPANTS CONSTRUCTION TYPE

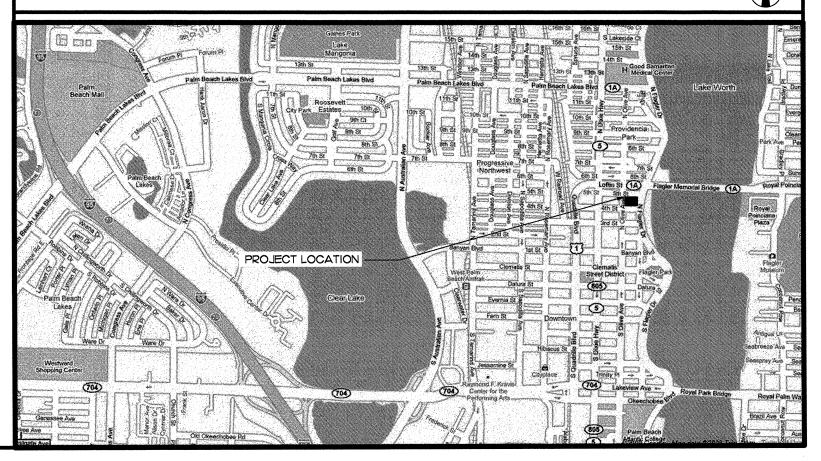
I-A (SPRINKLERED)

OCCUPANT FINISHES:

FBC TABLE 803.5 - FOR TYPE 'B' OCCUPANCY, FULLY SPRINKLERED. CLASS 'C' IS ALLOWABLE. NFPA IOI SEC. IO.2.8.1 & 39.3.3.2.1 & **TABLE A.10.2.2**

THE BUILDING HAS EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM. G.C. TO SUBMIT FOR SEPARATE PERMIT FOR ANY CHANGES TO EXISTING FIRE SPRINKLER SYSTEM AND FIRE ALARM SYSTEM.

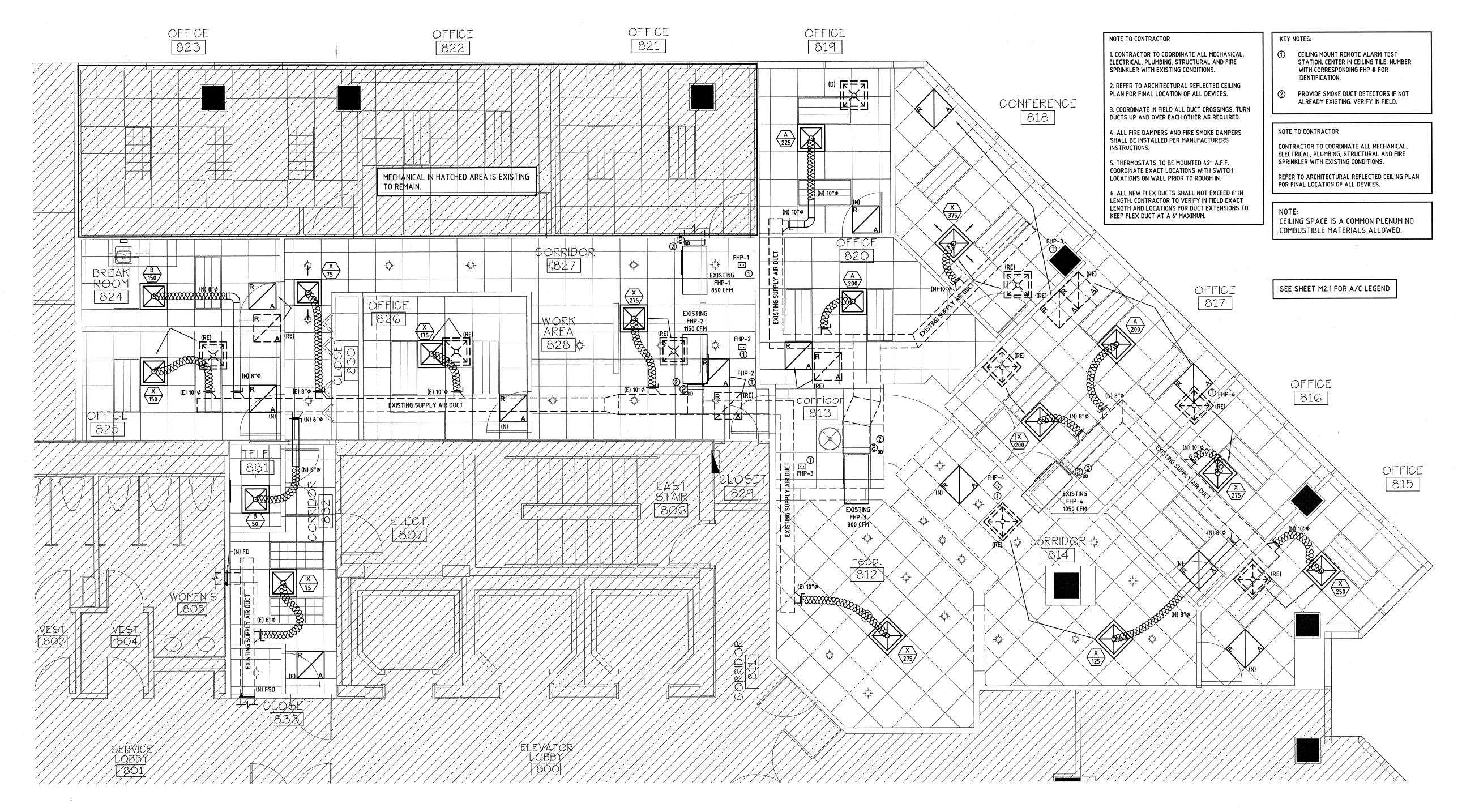
LOCATION MAP



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DURING CONSTRUCTION.

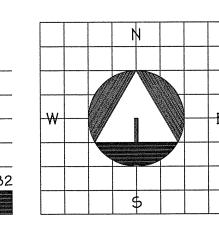


MECHANICAL PLAN

PERMIT SET: 11/09/11

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8th FLOOR PLAN SCALE: 1/4" = 1'-0" 32



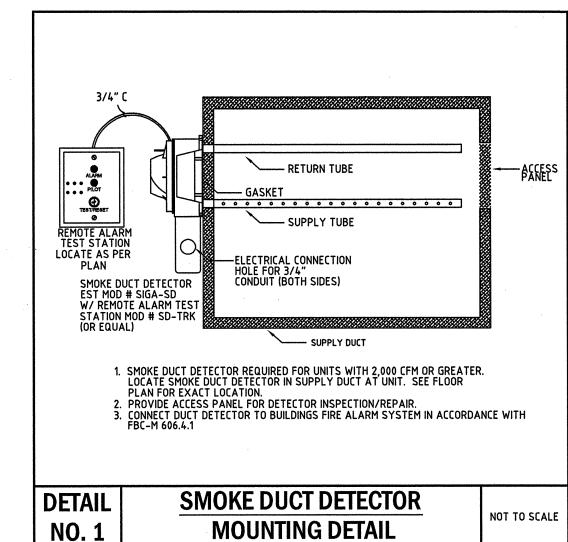
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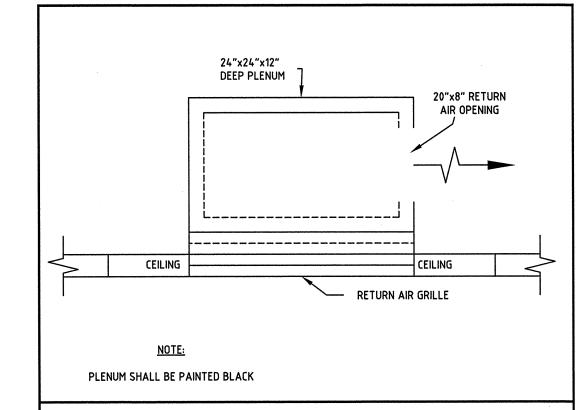
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CONTRACTOR TO PROVIDE SEPARATE BID FOR

SOUND BOOTS OVER OFFICES. AS AN ALTERNATIVE

TITUS - FLEXABOOTS MAY BE USED

RETURN AIR PLENUM DETAIL

A/C LEGEND

4W - DIFFUSER 2W - DIFFUSER TRANSITION MANUAL VOLUME DAMPER

FIRE DAMPER FIRE/SMOKE DAMPER (F.D.) THERMOSTAT

RETURN AIR GRILLE **⊕** 🕮 EXHAUST FAN REMOTE ALARM TEST STATION (S) SMOKE DUCT DETECTOR DIFFUSER TYPE

AUTOMATED VOLUME DAMPER FLORIDA HEAT PUMP (FHP) <u>CWR</u> CONDENSER WATER RETURN

SPACE

OFFICE

BREAK ROOM

520

220

CWS CONDENSER WATER SUPPLY

A.F.F. ABOVE FINISHED FLOOR R.A. RETURN AIR R.C. ROOF CAP W.C. WALL CAP O/A OUTSIDE AIR

S.A.D. SUPPLY AIR DUCT R.A.D. RETURN AIR DUCT R.A.G. RETURN AIR GRILLE E.A.G. EXHAUST AIR GRILLE

T.E.D TOILET EXHAUST DUCT AVD AUTOMATED VOLUME DAMPER FHP FLORIDA HEAT PUMP AHU AIR HANDLER UNIT CU CONDENSING UNIT WAHU WALL MOUNTED AIR HANDLER UNIT

CAHU CEILING MOUNTED AIR HANDLER UNIT EXISTING TO REMAIN EXISTING TO BE DEMOLISH (RE) EXISTING TO BE RELOCATED EXISTING TO BE REPLACED

UP DN SUPPLY DUCT (UP & DOWN) UP DN RETURN DUCT (UP & DOWN) UP DN EXHAUST DUCT (UP & DOWN) UP DN O/A DUCT (UP & DOWN)

NEW DUCT - WIDTH x DEPTH EXISTING DUCT - WIDTH x DEPTH NEW FLEX DUCT - DIAMETER

PER 2007 FBC CH. 13, SECTION 409.1.ABC.3.3: PROVIDE MOTORIZED SHUTOFF CONTROL DAMPERS ON RTU'S/AHU'S WITH CFM'S IN EXCESS OF 300 CFM. GRAVITY DAMPERS ARE SUFFICIENT FOR LESS THAN 300 CFM OF OUTSIDE AIR.

ALL AHUS ARE DESIGNED NOT IN EXCESS OF 300 CFM OF 0/A; THEREFORE GRAVITY DAMPERS ARE SUFFICIENT.

OUTSIDE AIR SCHEDULE per ASHRAE 62.1-2004

					•			
PACE	NET OCCUPIED AREA	OCCUPANCY DENSITY PER 1000 SQFT	ESTIMATED OCCUPANCY	ACTUAL OCCUPANCY	VENTILATION RATE CFM PER PERSON + SQFT	VENTILATION REQUIRED	VENTILATION PROVIDED	NOTES
FFICE	625	5	4		5 + 0.06	20 + 38 = 58	75	FHP-1

1) OCCUPANT DENSITIES & VENTILATION RATES ARE BASED ON ASHRAE STANDARD 62.1, 2004 & 2006 SUPPLEMENT, PER SECTION 403, SUBSECTION 403.4 OF FLORIDA BUILDING 2) ACTUAL OCCUPANCY IS BASED ON EITHER SEATING ARRANGEMENT OR INFORMATION PROVIDED BY OWNER AND OR ARCHITECT

OUTSIDE AIR SCHEDULE per ASHRAE 62.1-2004 NET OCCUPIED OCCUPANCY DENSITY | ESTIMATED | ACTUAL VENTILATION RATE CFM VENTILATION REQUIRED NOTES PER 1000 SQFT | OCCUPANCY | OCCUPANCY PER PERSON + SQFT PROVIDED 15 + 32 = 47 30 + 19 = 49FHP-2

1) OCCUPANT DENSITIES & VENTILATION RATES ARE BASED ON ASHRAE STANDARD 62.1, 2004 & 2006 SUPPLEMENT, PER SECTION 403, SUBSECTION 403.4 OF FLORIDA BUILDING

CODE MECHANICAL 2007 2) ACTUAL OCCUPANCY IS BASED ON EITHER SEATING ARRANGEMENT OR INFORMATION PROVIDED BY OWNER AND OR ARCHITECT

OUTSIDE AIR SCHEDULE per ASHRAE 62.1-2004

SPACE	NET OCCUPIED AREA	OCCUPANCY DENSITY PER 1000 SQFT	ESTIMATED OCCUPANCY	ACTUAL OCCUPANCY	VENTILATION RATE CFM PER PERSON + SQFT	VENTILATION REQUIRED	VENTILATION PROVIDED	NOTES
OFFICE	310	5	2	-	5 + 0.06	10 + 19 = 29	80	FHP-3
CONFERENCE	155	50	8	_	5 + 0.06	40 + 10 = 50	00	1117-3
NOTES:								

1) OCCUPANT DENSITIES & VENTILATION RATES ARE BASED ON ASHRAE STANDARD 62.1, 2004 & 2006 SUPPLEMENT, PER SECTION 403, SUBSECTION 403.4 OF FLORIDA BUILDING 2) ACTUAL OCCUPANCY IS BASED ON EITHER SEATING ARRANGEMENT OR INFORMATION PROVIDED BY OWNER AND OR ARCHITECT

OUTSIDE AIR SCHEDULE per ASHRAE 62.1-2004

SPACE	NET OCCUPIED AREA	OCCUPANCY DENSITY PER 1000 SQFT	ESTIMATED OCCUPANCY	ACTUAL OCCUPANCY	VENTILATION RATE CFM PER PERSON + SQFT	VENTILATION REQUIRED	VENTILATION PROVIDED	NOTES
OFFICE	530	5	3	-	5 + 0.06	15 + 32 = 47	75	FHP-4
CORRIDOR	315	-	-	-	0.06	19	7 /3	FNF=4
NOTES			**************************************					

1) OCCUPANT DENSITIES & VENTILATION RATES ARE BASED ON ASHRAE STANDARD 62.1, 2004 & 2006 SUPPLEMENT, PER SECTION 403, SUBSECTION 403.4 OF FLORIDA BUILDING 2) ACTUAL OCCUPANCY IS BASED ON EITHER SEATING ARRANGEMENT OR INFORMATION PROVIDED BY OWNER AND OR ARCHITECT

EXISTING WATER SOURCE HEAT PUMP DATA

	0.71/		MEG	MODEL NO	TOT 41	CENCIOLE	HEAT	FAN SI	CTION		CDW (D D /CT)	FFD (COD	WATER	TEMP.	CWS & CWR
	QTY.	UNIT NO.	MFG.	MODEL NO.	TOTAL	SENSIBLE	REJECT.	CFM	E.S.P.	0/A	GPM/P.D. (FT)	EER/COP	ENT.	LVG.	CONNECTION
TH	1	FHP-1	FHP	HEH-023 HORIZ.	23,000			850	0.4	75	6.0/EXIST.	EXISTING	85	95	3/4"
_	1	FHP-2	FHP	EMH-34 HORIZ.	34,000			1,150	0.4	155	9.0/EXIST.	EXISTING	85	95	3/4"
	1	FHP-3	FHP	EXIST.	23,000			800	0.4	80	6.0/EXIST.	EXISTING	85	95	3/4"
ا	1	FHP-4	FHP	EXIST.	31,000			1,050	0.4	75	7.5/EXIST.	EXISTING	85	95	3/4"
٦	A/C FO	DUIPMENT NO	TFS:	<u> </u>											

1) ALL WSHP ARE EXISTING TO REMAIN. SHOWN FOR REFERENCE ONLY. SEE BASE BUILDING DRAWINGS FOR 3) ALL UNITS ARE TO BE TIED INTO FIRE ALARM SYSTEM AND HAVE GLOBAL SHUT DOWN. MORE INFORMATION COORDINATE WITH BUILDING ENGINEER. 2) PROVIDE PRO-1 T-705 THERMOSTATS FOR ALL HEAT PUMPS (REPLACE EXISTING T-STATS FOR UNITS THAT ARE TO REMAIN IF NOT SPECIFIED THERMOSTAT). T-STATS TO BE MOUNTED 42"A.F.F.

EXISTING WSHP ELECTRICAL DATA AIR HANDLER UNIT HEAT QTY | FLA | LRA | HP | FLA MIN. CAPACITY MAX FUSE EXISTING EXISTING

EXISTING

EXISTING

			AIR TERMINAL	SCHEDULE (TITU	S)	
SERVICE	SYSTEM	LOCATION	ACCESSORIES	MANUFACTURE	MODEL	DESCRIPTION
Α	SUPPLY	CEILING	-	TITUS	MODEL NO: TDC-AA	12" x 12" 4-WAY
В	SUPPLY	CEILING	-	TITUS	MODEL NO: TDC-AA	9" x 9" 4-WAY
Х		EXISTING TO	REMAIN/RELOCATED			
RA .	RETURN	CEILING	-	TITUS	MODEL NO: 350FL	24" x 24" UNLESS OTHERWISE NOTED
IR TERMINAL NOT	ES:					

1) STANDARD FINISH TO BE WHITE FOR ALL DEVICES.

2) ALL DIFFUSUER TYPES MIGHT NOT BE USED.

FHP-1

FHP-3

FHP-4

EXISTING

AIR CONDITIONING SPECIFICATION

1. AIR CONDITIONING CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS, MATERIALS, ELEVATIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS AND INCLUDE IN THE BID ANY AND ALL FABRICATION REQUIRED PRIOR TO INSTALLATION. THE CONTRACTOR SHALL VERIFY SIZE, ELEVATION, AND PRESENT STATE OF ALL

2. THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY AND ALL EXISTING FIELD CONDITIONS WHICH DEVIATE FROM WHAT WAS SHOWN ON THE PLANS. CONTRACTOR IS RESPONSIBLE TO PROVIDE PRICING FOR A COMPLETE INSTALLATION INCLUDING ANY COSTS ASSOCIATED WITH FIELD CONDITIONS AT THE TIME OF BIDDING.

. IT SHALL BE THE RESPONSIBILITY OF THE AIR CONDITIONING CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS SO THAT DELIVERY WILL NOT INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.

4. IT SHALL BE THE RESPONSIBILITY OF THE AIR CONDITIONING CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC: DO NOT SCALE FOR EXACT LOCATIONS. THE AIR CONDITIONING CONTRACTOR SHALL INSTALL ALL NECESSARY OFFSETS, BENDS, AND TRANSITIONS AS REQUIRED TO PROVIDE A COMPLETE AND FULLY OPERATIVE SYSTEM. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL NOTIFY ENGINEER IF DUCT SIZE CHANGES ARE REQUIRED BECAUSE OF EXISTING CONDITIONS.

. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, TESTS, AND ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

EQUIPMENT CUTS FOR ALL DUCT WORK, EXHAUST FANS, AIR DEVICES, AND EQUIPMENT AS STATED ON SCHEDULES AND OR NOTES. IF THE CONTRACTOR PROPOSES TO USE ANY ARTICLE, DEVICE, PRODUCT, OR MATERIAL WHICH IS NOT AS SPECIFIED, THE CONTRACTOR

. ALL WORK SHALL BE PERFORMED BY A LICENSED AIR CONDITIONING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. ALL WORK-MANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES AND ORDINANCES. . THE AIR CONDITIONING CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITION ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT, AND FURNISHINGS CAUSED BY THE CONTRACTOR DURING THE PERFORMANCE OF WORK.

. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.

0. ALL REFRIGERANT PIPING SHALL BE TYPE "L" OR TYPE "K" COPPER WITH WROUGHT COPPER OR BRASS FITTINGS. STEEL VALVES ARE NOT PERMITTED.

11. THE AIR CONDITIONING CONTRACTOR SHALL RUN ALL CONDENSATE DRAINS PER PLUMBING SPECIFICATIONS. (SEE PLUMBING SHEETS) 12. INTERIOR CONDENSATE DRAIN PIPING AND REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH 5/8" THICK IMCOLOCK OR ARMAFLEX. 13. COMBUSTIBLE PIPING IS NOT PERMITTED IN RETURN AIR PLENUMS OR CEILING SPACES USED FOR RETURN AIR.

14. LOCATION OF AIR CONDITIONING DUCTS AND AIR DEVICES MAY CHANGE. VERIFY EXACT LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. DRAWINGS ARE DIAGRAMMATIC, DO NOT SCALE FOR THE EXACT LOCATION OF DUCTS, DIFFUSERS, GRILLES, REGISTERS, PIPING, EQUIPMENT, ETC. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DEVICES.

IS. THE AIR CONDITIONING CONTRACTOR SHALL MOUNT ALL ROOFTOP EQUIPMENT ON FACTORY FABRICATED CURBS AND ANCHORS FOR A MINIMUM OF 140 MPH WIND LOADS. WIND LOADS AT MOUNTING HEIGHTS SHALL BE AS REQUIRED BY LOCAL CODES.

16. THE AIR CONDITIONING CONTRACTOR SHALL USE VANED ELBOWS OR APPROVED 3 PIECE ELBOWS, SPLITTER DAMPERS WHERE INDICATED, VOLUME CONTROLS IN ALL BRANCH LINES AND SUPPLY AND RETURN AIR DEVICES.

17. THE AIR CONDITIONING CONTRACTOR SHALL SEAL ALL DUCTS IN AN APPROVED MANNER TO INSURE AGAINST LEAKAGE. 18. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID ANY CONFLICTS IN LOCATIONS FOR DUCTS, DIFFUSERS, GRILLES, REGISTERS, PIPING, EQUIPMENT, ETC., INORDER TO NOT INTERFERE WITH THE PROGRESS OF CONSTRUCTION.

9. THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL FANS, A/C UNITS, OR MECHANICAL EQUIPMENT, EXCEPT FOR EXHAUST HOODS.

20. ALL EXHAUST AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE, SMACNA, AND LOCAL CODES. ALL OUTSIDE AIR DUCTS SHALL HAVE 1" INSULATION IN AIR CONDITIONED SPACES. I. UNLESS NOTED AS EXISTING, ALL EQUIPMENT, PIPING, DUCTS, REGISTERS, ETC., SHALL BE NEW.

2. TERMINAL AIR DISTRIBUTION DEVICES SHALL BE TITUS, METALAIRE OR NAILOR-HART OR EQUAL AS SCHEDULED:

ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE WITH SCREWDRIVER ADJUSTMENT 23. ALL SUPPLY AND RETURN FIBERGLASS AIR DUCTWORK SHALL BE JOHNS MANVILLE FIBERGLASS (1.5" THICK). TYPE 475 OR 800 OR SHEET METAL WITH MINIMUM R-6 EXTERIOR FOILBACK INSULATION. UNLESS OTHERWISE NOTED ON PLANS ALL DUCTS SHALL BE SUPPORTED IN AS STRAIGHT AND LEVEL AS FASHION AS POSSIBLE. THE ENTIRE INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH ASHRAE, SMACNA, AND LOCAL CODES.

FLEXIBLE DUCTS SHALL BE UL-181 RATED, NONMETALLIC, CLASS 1, R-6 - INSTALLED IN ACCORDANCE WITH FBC-M 304.1 FLEXIBLE DUCTS SHALL NOT BE LIMITED IN LENGTH PER FBC-M 603.5.1.1

24. THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE ALL CONTACTORS, STARTERS, RELAYS, AND THERMOSTATS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS, POWER WIRING AND CONTROL WIRING.

25. THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE 1" THICK FARR 30/30 (THROW-AWAY TYPE) FILTERS WITH EACH A/C UNIT. 26. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR UNDERWRITERS LABEL WHERE APPLICABLE.

27. ALL PENETRATIONS OF FIRE-RATED WALLS, FLOORS OR CEILINGS SHALL BE FIREPROOFED BY A SEALING METHOD AND RATING AS SPECIFIED ON THE DRAWINGS OR AS REQUIRED BY THE LOCAL OR STATE CODES.

28. AIR HANDLING DEVICES IN EXCESS OF 2000 CFM WILL HAVE A DUCT SMOKE DETECTOR TO STOP THE FAN AND ACTIVATE A HORN AND STROBE LIGHT. ALL EQUIPMENT SHALL BE INTERLOCKED AS REQUIRED BY LOCAL CODES OR FIRE SAFETY OFFICIALS.

29. ALL WORK SHALL COMPLY WITH BASE BUILDING LIFE SAFETY/SMOKE CONTROL SYSTEM REQUIREMENTS. PROVIDE ALL NECESSARY WIRING, CONTACTORS, RELAYS, ETC., AS REQUIRED FOR INTERFACE WITH BASE BUILDING SYSTEM.

30. THE AIR CONDITIONING CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.

31. THE AIRCONDITIONING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS BUILT DRAWINGS TO THE ENGINEER UPON COMPLETION OF INSTALLATION. IF FIELD CHANGES ARE MADE WHICH DEVIATE FROM ENGINEERING DRAWINGS TO THE EXTENT THAT THE BUILDING DEPARTMENT REQUIRES THESE CHANGES BE INCORPORATED PRIOR TO INSPECTION, THE CONTRACTOR SHALL PROVIDE SKETCHES TO THE ENGINEER FOR INCORPORATION INTO THE BUILDING PLANS. ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.

32. THE AIR CONDITIONING CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT PER FBC 2007, CH 13, 410.1.ABCD.4 FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHU'S AND FANS FOR ALL PROJECTS.

THE T & B REPORT SHALL BE IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES, AND EXHAUST GRILLES AND THE LEAVING AND ENTERING AIR TEMP (°F) FROM SUPPLY GRILLES AND EVAPORATORS. IF THE OWNER EXPERIENCES UNCOMFORTABLE CONDITIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF AIR FLOW TO WITHIN PLUS OR MINUS 10% FROM AIR QUANTITIES

33. AIR CONDITIONING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM DATE OF ACCEPTANCE, AND ALL GUARANTEES AND WARRANTIES SHALL BE DELIVERED TO THE OWNER. COMPRESSORS SHALL HAVE EXTENDED FIVE YEAR WARRANTIES.

34. IF THE NATURE OF THIS CONTRACT INVOLVES EXTENSIVE REMODELING OF THE EXISTING BUILDING. THE AIR CONDITIONING CONTRACTOR, PRIOR TO BID, SHALL INSPECT THE EXISTING CONDITIONS AT THE JOB SITE AND ACQUAINT HIMSELF WITH THE CONDITIONS THAT

35. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL EQUIPMENT WITH THE OWNER'S REPRESENTATIVE AND THE ACTUAL EQUIPMENT BEING FURNISHED.

36. PRESENT AIR CONDITIONING EQUIPMENT WHERE INDICATED ON THE DRAWINGS IS FOR INFORMATION ONLY AND THE CONTRACTOR SHALL INCLUDE THE INSTALLATION OF CONDUIT AND WIRE AS REQUIRED. THE INSTALLATION OF NEW EQUIPMENT THAT INTERFERES WITH EXISTING SHALL BE REMOVED, RELOCATED, OR RE-ROUTED TO PERMIT COMPLETION OF SUCH WORK.

37. SALVAGED MATERIALS, EQUIPMENT, AND DIFFUSERS SHALL BE DELIVERED TO THE OWNER AT HIS PROPERTY AND STORED WITHIN THE BUILDING WHERE DIRECTED. ANY REMOVED MATERIALS OR EQUIPMENT WHICH THE OWNER DOES NOT WISH TO KEEP SHALL BE DISPOSED OF BY THE CONTRACTOR, WITHOUT ADDITIONAL COST TO THE OWNER.

38. ALL PRESENT DUCTWORK AND PIPING IN EXISTING AREAS TO BE ALTERED, WHICH WILL HAVE NO USE UPON COMPLETION OF THE ALTERATIONS SHALL BE REMOVED. WHENEVER DUCTS OR PIPING ARE OR WILL BECOME EXPOSED TO VIEW, THE CONTRACTOR SHALL 39. THE AIR CONDITIONING CONTRACTOR SHALL DETERMINE THE EXTENT TO WHICH EXISTING DUCTWORK AND PIPING WILL HAVE TO BE RE-

ROUTED, RELOCATED, OR RECONNECTED, AND THE AMOUNT OF ADDITIONAL WORK WHICH MAY BE REQUIRED DUE TO THE PHYSICAL CONDITIONS OF THE DUCTWORK & PIPING SHALL BE PERFORMED UNDER THIS CONTRACT WITHOUT ADDITIONAL CHARGES TO THE OWNER. 40. INTERRUPTION OF EXISTING FACILITIES OR SERVICES SHALL BE KEPT TO A MINIMUM AND THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR REQUIRED WHENEVER TEMPORARY CONDITIONS ARE NECESSARY TO MAINTAIN CONTINUITY OF SERVICE.
INTERRUPTION OF SERVICES, THE INSTALLATION OF TEMPORARY FACILITIES, AND THE WORK OF MAKING FINAL CONNECTIONS TO NEW

WORK SHALL BE DONE ONLY AT SUCH TIMES AS PERMITTED AND SCHEDULED BY THE OWNER WITHOUT ADDITIONAL COST. THE AIR CONDI-TIONING CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE SERVICE INTERRUPTIONS WITH THE OWNER & GENERAL CONTRACTOR.

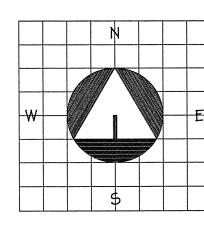
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EXISTING



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ARTNERS DESIGN, INC.

PRO R. SU

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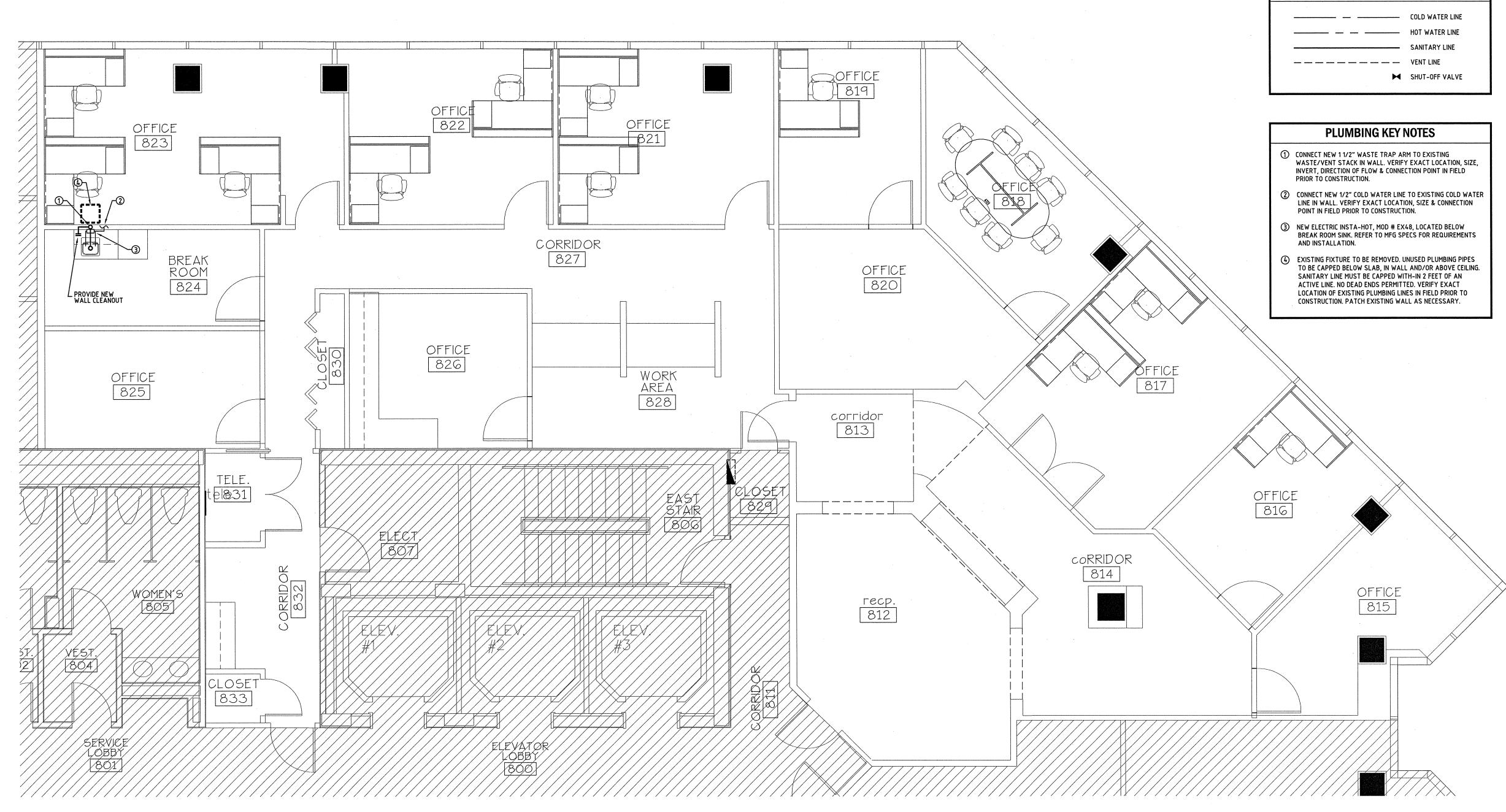
PLUMBING SPECIFICATIONS

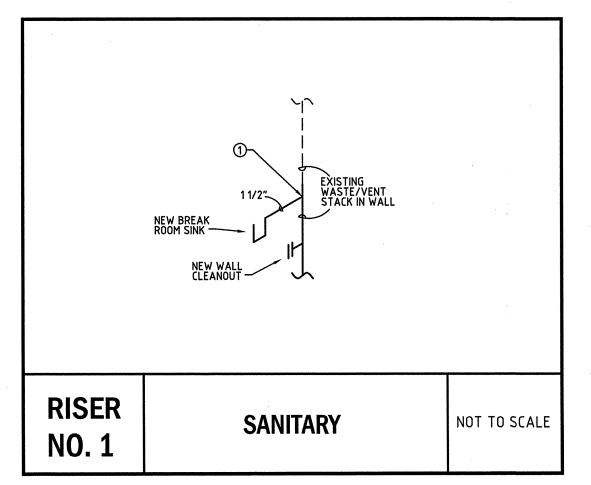
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2007 EDITION PLUMBING SECTION, WITH 2009 AMENDMENTS, AND SHALL COMPLY WITH ALL LOCAL RULES

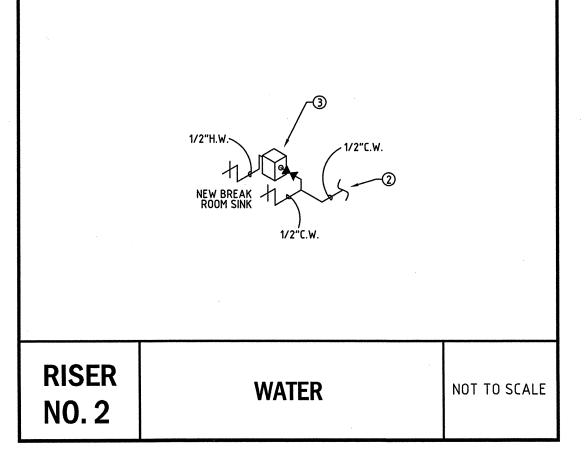
- ALL WORKMANSHIP & MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE NATIONAL, STATE, LOCAL CODES, RULES & ORDINANCES.
- CONTRACTOR SHALL VISIT THE JOB SITE & THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
- 3. ALL MATERIALS SHALL BE NEW.
- 4. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY
- 5. ALL EXCAVATION & BACK FILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
- 6. REQUIRED INSURANCE SHALL BE PROVIDED BY THIS CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY & PROPERTY DAMAGE FOR THE DURATION OF WORK.
- . CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS & TEST. SUBSTITUTIONS BY THE CONTRACTOR SHALL HAVE PRIOR APPROVAL. ANY CHANGES MADE WITHOUT APPROVAL WILL BE PAID BY THE CONTRACTOR TO RETURN TO THE
- 8. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROCESS OF CONSTRUCTION.
- 9. THE CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR REVIEW OF THE GENERAL NOTES, SPECIFICATIONS, AND ALL OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS.
- 10. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. FIELD VERIFY FINAL LOCATIONS FOR EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND EXACT LOCATION OF PLUMBING FIXTURES. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR **EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS.**
- 11. DRAWINGS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- 12. <u>VERIFY LOCATION, SIZE, TRAPS, INVERTS OF ALL EXISTING UTILITIES PRIOR TO</u> BEGINNING CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES. ANY COST RESULTING FROM DISCREPANCIES NOT REPORTED AT THIS TIME SHALL BE PAID BY THE
- 13. INSTALL AIR CHAMBERS OR SHOCK ABSORBERS IN PIPING SYSTEM TO PREVENT NOISE AND DAMAGE DUE TO WATER HAMMER.
- 14. PROVIDE SHUT-OFF VALVES IN THE SUPPLY PIPING TO EVERY FIXTURE.
- 15. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS.
- 16. IN AREAS WHERE AN EXISTING FIXTURE IS TO BE REMOVED AND THE SANITARY LINE IS TO BE CAPPED, THE LINE MUST BE CAPPED WITH-IN 2 FEET OF AN ACTIVE SANITARY LINE. NO DEAD ENDS PERMITTED.
- 17. CAP ALL PIPING OPENINGS DURING CONSTRUCTION UNTIL FINAL CONNECTIONS TO EQUIPMENT AND ACCESSORIES ARE MADE.
- 18. SANITARY PIPE 3" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT. SANITARY PIPE 4" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT. CONDENSATE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT.
- 19. ALL FLOOR PENETRATIONS MUST BE SLEEVED, FIRE STOPPED, GROUTED, SEALED AND MADE WATERPROOF IN ACCORDANCE WITH THE LANDLORDS REQUIREMENTS. SLEEVES MUST EXTEND A MINIMUM OF 4" A.F.F. COORDINATE ALL CONCRETE TRENCHING/CORING TO ENSURE THAT ANY UNDER SLAB UTILITIES, ETC. ARE NOT DAMAGED DURING FLOOR CUT. ANY DAMAGE TO BE REPAIRED AT CONTRACTOR EXPENSE. CUTTING AND PATCHING ACTIVITIES WHICH CREATE NOISE MUST BE PERFORMED AFTER-HOURS SO LONG AS ANY OTHER TENANTS ARE OCCUPYING THE BUILDING. PRIOR APPROVAL AND COORDINATION WITH PROPERTY MANAGEMENT IS REQUIRED FOR ALL CONCRETE CUTTING.
- 20. DO NOT ROUTE ANY WET PIPING OVER ELECTRICAL EQUIPMENT.
- 21. WATER PIPING TO BE TYPE "M" OR TYPE "L" COPPER ABOVE OR BELOW GRADE.
- 22. SOIL, WASTE & VENT PIPING TO BE PVC. #40 DVW. IF CEILING SPACE BELOW IS A COMMON PLENUM PVC MUST BE WRAPPED WITH UL LISTED FIRE WRAP OR CAST IRON
- 23. HOT AND HOT WATER RETURN LINES SHALL BE INSULATED WITH 1/2" TO 1" THICK ARMAFLEX INSULATION FROM THE WATER HEATER TO THE FURTHEST FIXTURE PER FBC 2007 CHAPTER 13, (WITH 2009 SUPPLEMENTS) SECTION 13-412.AB.4(1) AND TABLE
- 24. WHERE DISSIMILAR METALS ARE TO BE JOINED, APPROVED INSULATING UNIONS SHALL
- 25. ALL PLUMBING PIPES PENETRATING FIRE RATED WALLS, CEILINGS AND/ OR FLOORS SHALL BE PROVIDED WITH U.L. APPROVED FIRE RATED ASSEMBLY. (EQUAL TO WALL FIRE RATING - SEE ARCHITECTURAL DRAWINGS).
- 26. NO PVC PIPING TO BE USED IN COMMON PLENUM AREAS.
- 27. CONDENSATE LINES TO BE COPPER/PVC DEPENDING ON PROJECT REQUIREMENTS. INSULATE WITH 1/2" THICK ARMAFLEX INSULATION.
- 28. CONTRACTOR SHALL GUARANTEE ALL MATERIALS & WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- 29. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO BID AND INSTALLATION. INFORM THE ENGINEER OF RECORD OF ANY DISCREPANCY BETWEEN THE DOCUMENTS AND THESE CONDITIONS AND HE SHALL INCLUDE IN HIS BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER THE CONTRACT HAS BEEN AWARDED.
- 30. CONTRACTOR SHALL KEEP AS-ABUILTS AND SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW. ALL CHANGES SHALL BE FORWARDED A MINIMUM OF (2) WEEKS PRIOR TO FINAL INSPECTION. ANY EXPENSES, SUCH AS REVISIONS OR AS-ABUILTS, NECESSARY FOR FINAL C.O. SHALL BE AT THE EXPENSE OF THE OWNER.

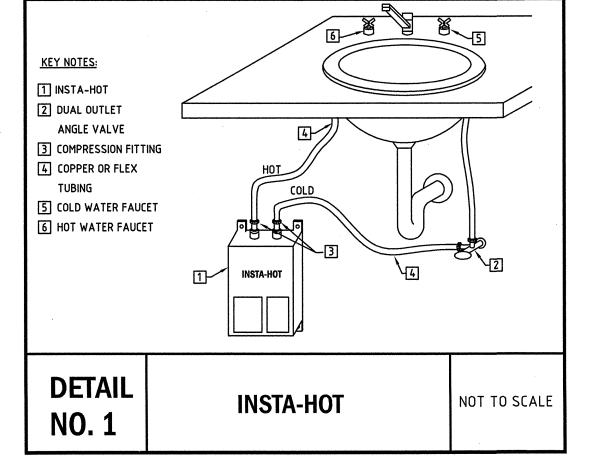
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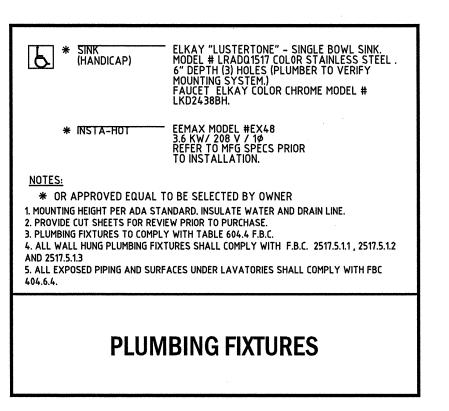
- FLOOR SLABS ARE POST TENSIONED & MUST BE **XRAYED PRIOR TO CORE DRILLING OR OTHER** PENETRATIONS. CONTRACTOR SHALL OBTAINED THE **BUILDING OWNER'S PERMISSION PRIOR TO COMMENCING ANY SLAB PENETRATIONS.**
- ALL PIPING ROUTED BELOW FLOOR OF TENANT'S SPACE TO BE COORDINATED WITH EXISTING UTILITIES AND LANDLORD PRIOR TO CONSTRUCTION. PIPING TO BE ROUTED TIGHT TO SLAB WHERE EVER POSSIBLE.
- **CEILING SPACE IS A COMMON PLENUM NO** COMBUSTIBLE MATERIALS ALLOWED.









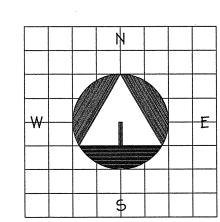


PLUMBING LEGEND



PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND HE SHALL INCLUDE IN HIS BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION.





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