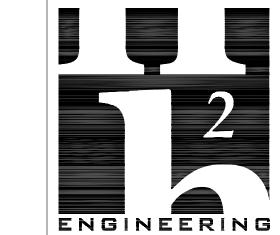
FAN SCHEDULE							AIR DISTRIBU	ITION		HVAC NOT	TS	GENERAL NOTES
		SF-1	SF-2	SF-3	SF-4	SF-5					RK, PIPING, ETC. AS HIGH AS POSSIBLE ABOVE CEILING.	GENERAL NOTES
DESIGNATION TYPE		SWSI UTILITY SET	SWSI UTILITY SET	SWSI UTILITY SET	SWSI UTILITY SET	INLINE	_	RECTANGULAR SHEET METAL DUCT		2. INSTALLATION OF	EQUIPMENT, DUCTWORK AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR	 DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
ORIENTATION		CLOCKWISE TOP HORIZONTAL	CLOCKWISE TOP HORIZONTAL	CLOCKWISE BOTTOM HORIZONTAL	CLOCKWISE BOTTOM HORIZONTAL	N/A	Cø S	ROUND SHEET METAL DUCT			TERS AND FOR MAINTENANCE. N ARE SHEET METAL SIZES.	FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE
SERVICE		STAIR #1 PRESSURIZATION	STAIR #2 PRESSURIZATION	ELEVATORS #1 & #2 PRESSURIZATION	ELEVATOR #3 PRESSURIZATION	ELEVATOR MACHINE ROOM		SUPPLY AIR DUCTWORK SECTION		1	CT LOCATIONS OF AIR DISTRIBUTION EQUIPMENT WITH THE CEILING AND THE	ARCHITECT. IF HE PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR DEFICIENCIES ASSOCIATED THEREWITH.
AIR QUANTITY	CFM	45000	42000	20000	12000	200		RETURN OR OUTSIDE AIR DUCTWORK SECTION	ı	5. PROVIDE NEW AII	R FILTERS IN EACH UNIT REQUIRING FILTERS WHEN THE PROJECT IS READY FOR	3. BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE
STATIC PRESSURE	IN. H20	1.1	1.5	1.2	1.3	0.3		EXHAUST AIR DUCTWORK SECTION		FILTERS DURING	ICE. DO NOT OPERATE UNITS WITHOUT FILTERS DURING CONSTRUCTION. REPLACE CONSTRUCTION ACCORDING TO FILTER MANUFACTURER'S RECOMMENDATIONS. SEAL OF DUCT WORK DURING CONSTRUCTION.	OBLIGATED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON HIS PART.
FAN SPEED	RPM	658 25	648	970	1478	1161		AIR BALANCING DAMPER (MANUAL)		6. WHEREVER THE [DEPTH OF THE TRUNK DUCT IS LESS THAN THE ROUND RUNOUT DUCT DIAMETER, TON FITTING OF EQUIVALENT AREA TO THE RUNOUT DUCT.	4. THE CONTRACTOR SHALL PAY FOR INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM
FAN MOTOR FAN DRIVE	HP	BELT BELT	BELT	BELT	BELT	DIRECT	- []	AIR BALANCING DAMPER (MOTORIZED)		1	E DUCT CONNECTIONS AT EACH EQUIPMENT CONNECTION.	DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK. 5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK OF SUBCONTRACTORS TO
MOTOR SPEED	RPM	1725	1725	1725	1725	1075	- { [FD }	FIDE DAMPED IN DUCT. CEE SETAIL	1501		MPER AT EVERY DUCT PENETRATION OF 1 HOUR OR MORE FIRE RATED WHETHER SHOWN ON THE DRAWINGS OR NOT.	AVOID INTERFERENCES. 6. WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
DISCONNECT SWITCH-PREWIRED		NO	NO	NO	NO	YES		FIRE DAMPER IN DUCT — SEE DETAIL — A/N	IOU1		OUNTED SMOKE DETECTOR (FURNISHED BY DIV. 26) IN SUPPLY AIR TRUNK DUCT KE-OFFS FOR AIR HANDLING UNITS WITH SUPPLY AIR CAPACITY GREATER THAN	ERECT AND MAINTAIN REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY
ELECTRICAL CHARACTERISTICS	V/PH	208/3	208/3	208/3	208/3	115/1	FSD	FIRE/SMOKE DAMPER IN DUCT — SEE DETAIL	. – A/M501	2000 CFM AND	WHERE INDICATED ON PLANS.	REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
BIRDSCREEN		NO	NO	NO	NO	YES	- { }	DUCTWORK FLEXIBLE CONNECTION		DAMPER FUSIBLE	PERS ARE REQUIRED, PROVIDE ACCESS PANELS TO ALLOW RE-LINKING OF LINKS. PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.	8. COORDINATE AND SEQUENCE DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE—CONSTRUCTION CONFERENCE.
BACKDRAFT DAMPER		PROVIDE	PROVIDE	PROVIDE	PROVIDE	PROVIDE YES		DUCT ELBOW WITH SINGLE THICKNESS TURNIN	IG VANES		UNTED SMOKE DETECTORS ARE REQUIRED, PROVIDE ACCESS PANELS TO ALLOW RYICING. PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.	9. THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. HE SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY MOBILIZE, PROCEED WITH AND COMPLETE THE
VARIABLE FREQUENCY DRIVE		YES	YES	YES	NO YES	NO	- - 120	SIDEWALL REGISTER AND AIR FLOW (CFM) (SEE SCHEDULE FOR SIZES UNLESS NOTED C	OTHERWISE)	NECESSARILY INC	AS SHOWN ON THE CONSTRUCTION DOCUMENTS IS DIAGRAMMATIC AND DOES NOT CLUDE ALL MODIFICATIONS REQUIRED TO AVOID THESE INTERFERENCES. BEFORE	WORK.
NOISE LEVEL	LwA	96	94	96	97	59				CHANGES IN CRO INDICATED OR NO	Y DUCTWORK, CHECK THE PHYSICAL CONDITIONS AT THE JOB SITE AND MAKE ISS SECTIONS, ROUTING, OFFSETS AND SIMILAR ITEMS WHETHER SPECIFICALLY DT. VERIFY THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING	10. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF EQUIPMENT AND MATERIALS.
WEIGHT	LBS	1640	1640	950	650	107	 	LOUVER		COSTS REQUIRED	IG, LIGHT FIXTURES, CEILING SYSTEMS AND TO PROVIDE EQUIPMENT SERVICE. TO CHANGE DUCTWORK TO FIT THE SPACE AVAILABLE AND AVOID CAUSED BY SPACE COMPETING SYSTEMS SHALL BE BORNE BY THE CONTRACTOR.	THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS
MANUFACTURER		COOK	соок	СООК	соок	COOK]			NO ADDITIONAL F	REMUNERATION WILL BE PAID BY THE OWNER.	MADE.
MODEL NUMBER		490CPA-A	490CPA-A	330CPA-A	245CPA-A	90SQN10D					. INSULATION TO SINGLE WALL SUPPLY DUCTS, RETURN DUCTS AND OUTSIDE AIR INDICATED ON PLANS TO HAVE INTERNAL DUCT LINER SHALL NOT RECEIVE ATION.	12. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE ARCHITECT AT COMPLETION OF CONSTRUCTION.
NOTES		1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,	1, 2, 3, 4, 5, 6, 7, 8, 9. 10, 11	12, 13, 14					PANEL AT EACH LOCATION WHERE A VALVE, DAMPER OR OTHER DEVICE CE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL. ACCESS	13. CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS
NOTES:											FIRE RATED IF INSTALLED IN A FIRE RATED CEILING OR WALL.	COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS, PRODUCT DATA AND SAMPLES".
PROVIDE ALUMINUM ACCESS DOOR — BOLTED PROVIDE 1.5 TIMES # OF BELTS REQUIRED FOR OPERATION (MINIMUM OF 2 BELTS). TO DROVIDE EXTENDED THESE LINES.												14. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ ENGINEER'S APPROVAL OF
 PROVIDE EXTENDED LUBE LINES. PROVIDE ALUMINUM OSHA BELT GUARD / WEATHER COVER. PROVIDE ALUMINUM DRAIN. 							OUTSIDE AIF	R FAN SCHEDULE		MEASURE	MENT AND CONTROLS	SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE
6. PROVIDE L10 200K BEARINGS. 7. PROVIDE ALUMINUM FLANGED INLET. 8. PROVIDE ALUMINUM OUTLET COMPANION FLANGE.							DESIGNATION		OAF-9	2	ADJUSTABLE FREQUENCY DRIVE	SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE
 PROVIDE INSULATED ROOF CURB WITH PLYWOOD DECK AND COVER. PROVIDE ALUMINUM INLET SAFETY SCREEN. 							ТҮРЕ		PLENUM	DDC DP	DIRECT DIGITAL CONTROLLER DIFFERENTIAL PRESSURE SENSOR	ARCHITECT/ENGINEER'S APPROVAL THEREOF. 15. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF WALL MOUNTED
 PROVIDE BELT TENSION ROTARY. PROVIDE SPRING ISOLATORS (SC-70 OR APPROVED EQUAL). PROVIDE SIDE DISCHARGE ARRANGEMENT. 							SERVICE		OA SUPPLY			DEVICES AND EQUIPMENT WITH ALL OTHER WALL MOUNTED FURNISHINGS. 16. NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING.
14. PROVIDE INSULATED HOUSING.							AIR QUANTITY		CFM 24,000			DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
								C PRESSURE (INCLUDING FILTER)	IN. H20 1.5	MISCELLA		17. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
							FAN SPEED FAN MOTOR		RPM 1/84 HP - # 10 - 2	→	POINT OF CONNECTION, NEW TO EXISTING POINT INDICATES LIMIT OF DEMOLITION	18. SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
							FAN DRIVE		BELT	 	POINT INDICATES LIMIT OF DEMOLITION	19. ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST A 120 MPH WIND LOAD. 20. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF FIRE AND SMOKE WALL ASSEMBLIES AND
							MOTOR SPEED		RPM 1750	PIPING AND) FITTINGS	ACOUSTICAL WALLS. 21. BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM
							ELECTRICAL CHA	RACTERISTICS	V/PH 208/3	CHWS——		SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
							WEIGHT		LBS 5000	CHWR	CHILLED WATER RETURN PIPING	22. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED
							FILTERS		4" PLEATED MERV 8	— CWS		ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS. 23. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM
							MANUFACTURER		MCQUAY OAC-038		CONDENSER WATER RETURN PIPING ELBOW TURNED UP	DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
							MODEL NUMBER		000 000		ELBOW TURNED DOWN	24. THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION. THE OWNER WILL MAKE REASONABLE EFFORTS TO ASSIST THE CONTRACTOR IN COMPLETING THE WORK. COORDINATE
							PROVIDE STORM LOUV PROVIDE OPPOSED BL	ADE MOTORIZED INLET DAMPERS.		——————————————————————————————————————	EXISTING PIPE TO REMAIN HEATING HOT WATER SUPPLY PIPING	WORK WITH THE OWNER'S DESIGNATED REPRESENTATIVE.
							3. PROVIDE SPRING ISOL	ATORS ON EACH FAN.				25. EXIT WAYS SHALL BE KEPT CLEAR. IF AN EXIT MUST BE TEMPORARILY BLOCKED, PROVIDE THE REQUIRED BARRICADE AND DIRECTIONAL SIGNS FOR TEMPORARY EXITING AND SAFETY.
												1
							GRAVITY VEN	NTILATOR SCHEDULE		SIDEMVI I	REGISTERS AND GRILLES	DELEGATED DESIGN CALCULATION REQUIREMENTS
							DESIGNATION		GV-1, 2, 3, 4	JIDE WALL	SUPPLY AIR RETURN AIR OR EXHAUST AIR	
							SERVICE		RELIEF	CFM	REGISTER RUNOUT REGISTER RUNOUT	THESE MECHANICAL SYSTEM ENGINEERING DOCUMENTS REPRESENT THE DESIGN INTENT FOR ATTACHING AND SECURING THE STAIRWELL SHAFT AND ELEVATOR HOISTWAY
							AIRFLOW THROAT SIZE DIAME	ETER .	CFM 450 INCHES 12	-	SIZE DUCT SIZE DUCT	PRESSURIZATION FANS TO ISOLATE VIBRATION AND RESIST WIND FORCES. THE DELEGATED ENGINEER IS RESPONSIBLE FOR PROVIDING A COMPLETE DESIGN, APPROVED
							HOOD DIAMETER	••	INCHES 28	0-95	8x6 8x6 8x6	BY THE AUTHORITY HAVING JURISDICTION, TO ATTACH AND SECURE THE STAIRWELL SHAFT, ELEVATOR HOISTWAY PRESSURIZATION FANS, AND ASSOCIATED ROOF CURBS.
							WEIGHT MANUFACTURER		LBS 30 C00K	100-195	10x6 10x6 10x6 10x6	2. DESIGN CRITERIA WIND SPEED: 120 MPH
							MODEL NUMBER		12PR	200–295	12x6 12x6 18x6 18x6	IMPORTANCE FACTOR: 1.0
							NOTES:	ED ROOF CURB WITH WELDED CURB CAP CORNERS	AND DAMPER TRAV	300-395	16x6 16x6 24x6 24x6	3. DELEGATED ENGINEER SHALL PROVIDE SIGNED AND SEALED DATA TO THE ENGINEER OF RECORD AND AUTHORITY HAVING JURISDICTION INCLUDING THE FOLLOWING AS APPLICABLE, BUT NOT LIMITED TO: 1) DESIGN CALCULATIONS FOR STATIC AND
							PROVIDE PREFABRICATE PROVIDE BACKDRAFT D PROVIDE ALUMINUM BIR	AMPER.	AND DAMPER IRAY.	400-495 500-595	18x8 18x8 30x8 30x8 18x10 18x10 30x10 30x10	DYNAMIC LOADING DUE TO EQUIPMENT WEIGHT AND OPERATION AND WIND FORCES REQUIRED TO SELECT VIBRATION ISOLATORS AND WIND RESTRAINT, AND 2) CURB
										200-293	16X10	DETAILS WITH ANCHORAGES AND ATTACHMENTS TO STRUCTURE AND TO SUPPORTED EQUIPMENT, INCLUDING AUXILIARY MOTOR SLIDES AND RAILS, BASE WEIGHTS, EQUIPMENT
							1					STATIC LOADS, POWER TRANSMISSION, COMPONENT MISALIGNMENT, AND CANTILEVER LOADS.
										ABBREVIA ⁻	TIONS	DRAWING INDEX
										AFF ABO	VE FINISHED FLOOR HP HORSEPOWER	M001 GENERAL NOTES, SCHEDULES AND LEGEND — MECHANICAL
										AFR ABO AHU AIR	VE FINISHED ROOF N/A NOT APPLICABLE HANDLING UNIT OA OUTSIDE AIR	M002 SMOKE CONTROL SYSTEMS DESIGN — MECHANICAL M101 FLOOR PLANS — LEVELS 1—4 — MECHANICAL
							[BHP BRA	ANCING DAMPER RPM REVOLUTIONS PER MINUTE KE HORSEPOWER SA SUPPLY AIR ISH THERMAL UNITS PER HOUR SAG SUPPLY AIR GRILLE	M102 FLOOR PLANS — LEVELS 5-8 — MECHANICAL MD109 ROOF AND PENTHOUSE DEMOLITION PLAN — MECHANICAL M109 ROOF AND PENTHOUSE PLAN — MECHANICAL
										CFM CUB	IC FEET PER MINUTE SF SUPPLY FAN ICT DIGITAL CONTROL PANEL SMS SHEET METAL SIZE	M201 RISERS — MECHANICAL M202 SOUTH ELEVATION — MECHANICAL
										FD FIRE	N SP STATIC PRESSURE INEER OF RECORD SWSI SINGLE WIDTH SINGLE INLET DAMPER TYP TYPICAL	M301 SECTIONS & ENLARGEMENTS — MECHANICAL M501 DETAILS — MECHANICAL M502 DETAILS — MECHANICAL
											SMOKE DAMPER UNO UNLESS NOTED OTHERWISE VFD VARIABLE FREQUENCY DRIVE	M701 CONTROLS - MECHANICAL M702 CONTROLS - MECHANICAL
							1					



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Florida Certificate of Authorization #2485 Scott R. Drury, P.E. #69845

GENERAL NOTES & LEGEND - MECHANICAL

Leon County
Courthouse Annex
(Bank of America) Stair
& Elevator
Pressurization
Drawn By: RCT

Project Code

27 April 2012

Construction

Documents

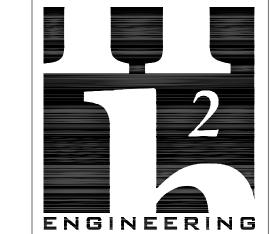
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	RMATION			ELEVATORS #1 & #2	ELEVATOR #3	DESIGN CONDITIONS			SMOKE CONTROL SYSTEM DESIGN
	CARS IN HOISTWAY			2	1	WIND SPEED	MPH	18	1. THE SMOKE CONTROL SYSTEMS ARE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF 1
	F FLOORS SERVED		#	10	10	SUMMER TEMPERATURES	T		FLORIDA BUILDING CODE SECTION 909 AND THE METHODOLOGY DESCRIBED IN ASHRAE'S "PRING OF SMOKE MANAGEMENT". SPECIFICALLY, THE ELEVATOR HOISTWAY PRESSURIZATION SYSTEMS
<u> </u>	AL HOISTWAY HEIGHT		# 	1		DESIGN COOLING DAY EXTREME COOLING DAY	°Fdb−°Fwb	95–77	DESIGNED IN ACCORDANCE WITH AN APPROVED ALTERNATE DESIGN METHOD UNDER FLORIDA BUILDING CODE SECTION 1004.11. THE ALTERNATE DESIGN METHOD IS BASED ON THE REQUIRE
				129	129	INDOOR DESIGN CONDITION	*Fdb	75	OF FLORIDA BUILDING CODE SECTION 708, MAINTAINING PRESSURE DIFFERENTIALS BETWEEN CALCULATED CRITICAL PRESSURE DIFFERENCE TO PREVENT SMOKE FROM MIGRATING INTO THE
	SS SECTIONAL AREA OF HOISTWAY		SF	112	55	STAIRWELL SHAFT TEMPERATURE (BOTTOM TO TOP)	Fdb-Fdb	75–84	HOISTWAY DUE TO PISTON EFFECT AND A MAXIMUM PRESSURE DIFFERENCE OF 0.25 INCHES OWATER.
	AREA AROUND ELEVATOR CAR		SF	40	19	ELEVATOR HOISTWAY TEMPERATURE (BOTTOM TO TOP)	*Fdb-*Fdb	75–84	2. THE SMOKE CONTROL SYSTEMS CONSIST OF TWO (2) STAIRWELL PRESSURIZATION SYSTEMS AN (2) ELEVATOR HOISTWAY PRESSURIZATION SYSTEMS.
	V COEFFICIENT FOR FLOW AROUND CAR			0.94	0.83	WINTER TEMPERATURES			3. EACH STAIRWELL PRESSURIZATION SYSTEM CONSISTS OF ONE (1) SUPPLY FAN EQUIPPED WITH
ALCULATI						DESIGN HEATING DAY	*Fdb-GRAINS	5 / LBda 25-10	VARIABLE FREQUENCY DRIVE (VFD). THE VFD MODULATES THE FAN SPEED TO MAINTAIN THE PRESSURE DIFFERENTIALS ACROSS THE STAIRWELL DOORS BETWEEN MINIMUM AND MAXIMUM V
SUMM	MER RESULTS					EXTREME HEATING DAY INDOOR DESIGN CONDITION	*Fdb	70	AS MEASURED BY SEVERAL DIFFERENTIAL PRESSURE SENSORS LOCATED THROUGHOUT THE SH ADDITIONALLY. THE EXTERIOR STAIRWELL DOOR AT THE BOTTOM OF THE STAIRWELL IS
	ELEVATOR DOORS OPEN ON LEVEL P1 (WITH EXTERIOR LOBBY DOORS OPEN ON LEVELS P1 & P2)		·	1	1	STAIRWELL SHAFT TEMPERATURE (BOTTOM TO TOP)	Fdb-Fdb	63–68	AUTOMATICALLY POWERED OPEN.
	AIRFLOW		CFM	15000	8000	ELEVATOR HOISTWAY TEMPERATURE (BOTTOM TO TOP)	°Fdb−°Fdb	63-68	4. EACH ELEVATOR HOISTWAY PRESSURIZATION SYSTEM CONSISTS OF ONE (1) SUPPLY FAN EQUII WITH A VARIABLE FREQUENCY DRIVE, ONE (1) MOTORIZED DAMPER IN HOISTWAY VENT, AND AUTOMATICALLY POWERED—OPEN DOORS IN ELEVATOR LOBBIES ON THE PARKING LEVELS. UPO
	MAXIMUM PRESSURE DIFFERENCE		IN. H20	0.11	0.11				SIGNAL FROM THE FIRE ALARM CONTROL PANEL, THE SUPPLY FAN IS ENABLED, THE MOTORIZE
	MINIMUM PRESSURE DIFFERENCE		IN. H20	0.04	0.04				DAMPER IS CLOSED, AND ONE (1) LOBBY DOOR ADJACENT TO BUILDING EXTERIOR IS OPEN ON SIDE OF THE PARKING LEVEL ELEVATOR LOBBIES. THE VFD MODULATES THE FAN SPEED TO MAINTAIN THE PRESSURE DIFFERENTIALS ACROSS THE HOISTWAY DOORS BETWEEN MINIMUM AN
	ALL ELEVATOR DOORS CLOSED (WITH EXTERIOR LOBBY DOORS OPEN ON LEVELS P1 & P2)					SMOKE CONTROL SYSTEM DESIGN A	ANALYSIS		MAXIMUM VALUES, AS MEASURED BY SEVERAL DIFFERENTIAL PRESSURE SENSORS LOCATED THROUGHOUT THE HOISTWAY. UPON DETECTION OF SMOKE IN THE HOISTWAY, THE SUPPLY FAI
	AIRFLOW		CFM	8000	5000	PRESSURE DIFFERENCE DUE TO STACK EFFECT			DISABLED AND THE MOTORIZED DAMPER IS OPENED.
	MAXIMUM PRESSURE DIFFERENCE		IN. H20	0.16	0.18	NORMAL STACK EFFECT (UPFLOW)	IN. H20	0.11	NOTE: STAIR #1 DOES NOT CURRENTLY HAVE A DOOR DISCHARGING TO THE EXTERIOR OF THE BUILD
	MINIMUM PRESSURE DIFFERENCE		IN. H20	0.08	0.10	REVERSE STACK EFFECT (DOWNFLOW)	IN. H20	-0.03	A FUTURE PROJECT (NOT IN THE SCOPE OF THIS PROJECT) IS PLANNED TO EXTEND THE STAI DOWN TO THE PARKING LEVEL BELOW WITH A DOOR TO THE EXTERIOR. THE SYSTEM IS DESIGN
WINTE	ER RESULTS					TEMPERATURE EFFECT OF FIRE	1		MEET CURRENT CONDITIONS (NO EXTERIOR DOOR OPEN) AND FUTURE CONDITIONS (EXTERIOR DOWERED OPEN).
	ELEVATOR DOORS OPEN ON LEVEL P1 (WITH EXTERIOR LOBBY DOORS OPEN ON LEVELS P1 & P2)					PRESSURE DIFFERENCE FROM FIRE COMPARTMENT TO	IN. H20	0.02	
	AIRFLOW		CFM	14000	8000	SURROUNDINGS	117. 1120	0.02	
	MAXIMUM PRESSURE DIFFERENCE		IN. H20	0.23	0.24	WND EFFECT			
	MINIMUM PRESSURE DIFFERENCE		IN. H20	0.04	0.04	PRESSURE COEFFICIENT (WINDWARD SIDE)		0.7	
	ALL ELEVATOR DOORS CLOSED (WITH EXTERIOR LOBBY DOORS OPEN ON LEVELS P1 & P2)		1		I .	PRESSURE COEFFICIENT (LEEWARD SIDE)		-0.7	
	AIRFLOW		CFM	9000	5500	OUTSIDE AIR DENSITY	LBM / CF	0.075	
	MAXIMUM PRESSURE DIFFERENCE		IN. H20	0.24	0.25	- WIND EXPONENT		0.33	
	MINIMUM PRESSURE DIFFERENCE		IN. H20	0.04	0.05	- WIND BOUNDARY LAYER THICKNESS	FT	1500	
						PRESSURE EXERTED BY WIND (WINDWARD SIDE)	IN. H20	0.11	
						PRESSURE EXERTED BY WIND (LEEWARD SIDE)	IN. H20	-0.11	
						SMOKE BARRIER CONSTRUCTION	_		
						CONSTRUCTION TIGHTNESS		AVERAGE	
						LEAKAGE AREA RATIO OF EXTERIOR BUILDING WALLS		0.00017	
OT AID	DMELL PRECLIPIZATION ANALYCIC					LEAKAGE AREA RATIO OF STAIRWELL WALLS		0.00011	
	RWELL PRESSURIZATION ANALYSIS		,			LEAKAGE AREA RATIO OF ELEVATOR SHAFT WALLS		0.00084	
ELL INFOF	ORMATION		STAIR #1 (CURRENT)	STAIR #1 (FUTURE)	STAIR #2	LEAKAGE AREA RATIO OF FLOORS		0.000052	
	FLOORS SERVED	"		10	9	LEAKAGE AREAS			
# OF	FLOURS SERVED	#	9	_					
<u> </u>	AL STAIRWELL HEIGHT	# FT	113	125	111	INTERIOR STAIRWELL DOORS			
TOTAL		# FT SF	113	125 129	111	DOOR DIMENSIONS (HEIGHT X WIDTH)	INCHES	80 X 36	
TOTAL	AL STAIRWELL HEIGHT	# FT SF				1	INCHES INCHES	80 X 36 0.125	
TOTAL CROS	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY	# FT SF #				DOOR DIMENSIONS (HEIGHT X WIDTH)			
TOTAL CROS	SS SECTIONAL AREA OF STAIRWAY INTERIOR DOORS	# FT SF # #				DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH	INCHES	0.125	
TOTAL CROS # OF # OF	SS SECTIONAL AREA OF STAIRWAY INTERIOR DOORS EXTERIOR DOORS	# FT SF # #			129 8 1	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED)	INCHES SQ FT	0.125	
TOTAL CROS # OF # OF INTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY F INTERIOR DOORS F EXTERIOR DOORS RIOR OPEN DOORS FRIOR OPEN DOORS	# FT SF # #			129 8 1	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN)	INCHES SQ FT	0.125	
TOTAL CROS # OF # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY F INTERIOR DOORS F EXTERIOR DOORS RIOR OPEN DOORS FRIOR OPEN DOORS	# FT SF # #			129 8 1	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS	INCHES SQ FT SQ FT	0.125 0.21 20	
TOTAL CROS # OF # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY FINTERIOR DOORS FEXTERIOR DOORS RIOR OPEN DOORS TRIOR OPEN DOORS TRIOR OPEN DOORS	# FT SF # #			129 8 1	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH)	INCHES SQ FT SQ FT INCHES	0.125 0.21 20 80 X 36	
TOTAL CROS # OF # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY F INTERIOR DOORS RIOR OPEN DOORS RIOR OPEN DOORS TIONS MER RESULTS	# FT SF # # # # CFM			129 8 1	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH	INCHES SQ FT SQ FT INCHES	0.125 0.21 20 80 X 36 0.125	
TOTAL CROS # OF # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY F INTERIOR DOORS FEXTERIOR DOORS RIOR OPEN DOORS TRIOR OPEN DOORS TRIOR OPEN DOORS TRIONS MER RESULTS EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 1 & 2)	# # #	129 8 1 2 0	129 8 2 2 1	129 8 1 2	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED)	INCHES SQ FT SQ FT INCHES INCHES SQ FT	0.125 0.21 20 80 X 36 0.125 0.21	
TOTAL CROS # OF # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY F INTERIOR DOORS RIOR OPEN DOORS RIOR OPEN DOORS TIONS MER RESULTS EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 1 & 2) AIRFLOW	# # # # CFM	129 8 1 2 0	129 8 2 2 1	129 8 1 2 1	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN)	INCHES SQ FT SQ FT INCHES INCHES SQ FT	0.125 0.21 20 80 X 36 0.125 0.21	
TOTAL CROS # OF # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY FINTERIOR DOORS FEXTERIOR DOORS RIOR OPEN DOORS TIONS MER RESULTS EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 1 & 2) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL	# # # # CFM IN. H20	129 8 1 2 0 16000 0.06	129 8 2 2 1 1 24000 0.05	129 8 1 2 1 24000 0.06	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) ELEVATOR DOORS	INCHES SQ FT SQ FT INCHES INCHES SQ FT SQ FT	0.125 0.21 20 80 X 36 0.125 0.21 20	
TOTAL CROS # OF # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY F INTERIOR DOORS F EXTERIOR DOORS RIOR OPEN DOORS TRIOR OPEN DOORS TRIOR OPEN DOORS TRIONS MER RESULTS EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 1 & 2) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL PRESSURE DIFFERENCE AT BOTTOM OF STAIRWELL	# # # # CFM IN. H20	129 8 1 2 0 16000 0.06	129 8 2 2 1 1 24000 0.05	129 8 1 2 1 24000 0.06	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) ELEVATOR DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) LEAKAGE AREA (CLOSED)	INCHES SQ FT SQ FT INCHES INCHES SQ FT SQ FT SQ FT INCHES	0.125 0.21 20 80 X 36 0.125 0.21 20	
TOTAL CROS # OF # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY FINTERIOR DOORS FEXTERIOR DOORS RIOR OPEN DOORS TRIOR DOOR OPEN ON LEVEL P2 (WITH ALL INTERIOR DOORS CLOSED)	# # # # CFM IN. H20 IN. H20	129 8 1 2 0 16000 0.06 0.18	129 8 2 2 1 24000 0.05 0.35	129 8 1 2 1 24000 0.06 0.25	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) ELEVATOR DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED)	INCHES SQ FT SQ FT INCHES INCHES SQ FT SQ FT INCHES	0.125 0.21 20 80 X 36 0.125 0.21 20	
TOTAL CROS # OF # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY FINTERIOR DOORS FEXTERIOR DOORS RIOR OPEN DOORS TIONS MER RESULTS EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 1 & 2) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH ALL INTERIOR DOORS CLOSED) AIRFLOW AIRFLOW	# # # # CFM IN. H20 IN. H20	129 8 1 2 0 16000 0.06 0.18	129 8 2 2 1 24000 0.05 0.35	129 8 1 2 1 24000 0.06 0.25	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) ELEVATOR DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) DOOR OPENING FORCES	INCHES SQ FT SQ FT INCHES INCHES SQ FT SQ FT INCHES SQ FT SQ FT SQ FT	0.125 0.21 20 80 X 36 0.125 0.21 20 84 X 42 0.40 6	
TOTAL CROS # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY FINTERIOR DOORS FEXTERIOR DOORS RIOR OPEN DOORS TRIOR OPEN DOORS TRIOR OPEN DOORS TRIOR OPEN DOORS MER RESULTS EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 1 & 2) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH ALL INTERIOR DOORS CLOSED) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL	# # # # # CFM IN. H20 CFM IN. H20	129 8 1 2 0 16000 0.06 0.18 4500 0.16	129 8 2 1 1 24000 0.05 0.35 11000 0.07	129 8 1 2 1 24000 0.06 0.25 10000 0.05	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) ELEVATOR DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) DOOR OPENING FORCES MAXIMUM ALLOWABLE PRESSURE DIFFERENCE	INCHES SQ FT INCHES INCHES SQ FT SQ FT SQ FT INCHES SQ FT INCHES SQ FT INCHES	0.125 0.21 20 80 X 36 0.125 0.21 20 84 X 42 0.40 6	
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TOTAL CROS # OF INTER EXTER	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY FINTERIOR DOORS FEXTERIOR DOORS RICK OPEN DOORS MER RESULTS EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 1 & 2) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH ALL INTERIOR DOORS CLOSED) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL PRESSURE DIFFERENCE AT BOTTOM OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 7 & 8) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 7 & 8) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH ALL INTERIOR DOORS CLOSED) AIRFLOW AIRFLOW AIRFLOW AIRFLOW AIRFLOW	# # # # # # # # # # # # # # # # # # #	129 8 1 2 0 16000 0.06 0.18 4500 0.16 0.21 30000 0.22 (NOTE 1) 0.05	129 8 2 1 24000 0.05 0.35 11000 0.07 0.12 40000 0.26 (NOTE 2) 0.05	129 8 1 2 1 24000 0.06 0.25 10000 0.05 0.10 37000 0.27 0.05	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) ELEVATOR DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) DOOR OPENING FORCES MAXIMUM ALLOWABLE PRESSURE DIFFERENCE MINIMUM ALLOWABLE PRESSURE DIFFERENCE FORCE TO OVERCOME DOOR CLOSER DISTANCE FROM DOOR HANDLE TO LATCH EDGE OF DOOR TOTAL DOOR OPENING FORCE ELEVATOR HOISTWAY DESIGN	INCHES SQ FT SQ FT INCHES INCHES SQ FT SQ FT INCHES SQ FT INCHES SQ FT SQ FT LINCHES LBS INCHES LBS	0.125 0.21 20 80 X 36 0.125 0.21 20 84 X 42 0.40 6 0.35 0.05 10 3.5 30	SCOPE OF TESTING
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TOTAL CROSS # OF INTER EXTER SUMM WINTE	AL STAIRWELL HEIGHT SS SECTIONAL AREA OF STAIRWAY FINTERIOR DOORS EXTERIOR DOORS RIOR OPEN DOORS RIOR OPEN DOORS RIOR OPEN DOORS RIOR OPEN DOORS MER RESULTS EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 1 & 2) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH ALL INTERIOR DOORS CLOSED) AIRFLOW PRESSURE DIFFERENCE AT BOTTOM OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH ALL INTERIOR DOORS CLOSED) AIRFLOW PRESSURE DIFFERENCE AT BOTTOM OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 7 & 8) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH INTERIOR DOORS OPEN ON LEVELS 7 & 8) AIRFLOW PRESSURE DIFFERENCE AT BOTTOM OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH ALL INTERIOR DOORS CLOSED) AIRFLOW PRESSURE DIFFERENCE AT BOTTOM OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH ALL INTERIOR DOORS CLOSED) AIRFLOW PRESSURE DIFFERENCE AT TOP OF STAIRWELL EXTERIOR DOOR OPEN ON LEVEL P2 (WITH ALL INTERIOR DOORS CLOSED)	# # # # # # # # # # # # # # # # # # #	129 8 1 2 0 16000 0.06 0.18 4500 0.16 0.21 30000 0.22 (NOTE 1) 0.05 5500 0.30 0.06	129 8 2 2 1 14000 0.05 0.35 11000 0.07 0.12 40000 0.26 (NOTE 2) 0.05 13500 0.35 0.06	129 8 1 2 1 24000 0.06 0.25 10000 0.05 0.10 37000 0.27 0.05 12000 0.30 0.09	DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) EXTERIOR STAIRWELL DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) AVERAGE CRACK WIDTH LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) ELEVATOR DOORS DOOR DIMENSIONS (HEIGHT X WIDTH) LEAKAGE AREA (CLOSED) LEAKAGE AREA (CLOSED) LEAKAGE AREA (OPEN) DOOR OPENING FORCES MAXIMUM ALLOWABLE PRESSURE DIFFERENCE FORCE TO OVERCOME DOOR CLOSER DISTANCE FROM DOOR HANDLE TO LATCH EDGE OF DOOR TOTAL DOOR OPENING FORCE ELEVATOR HOISTWAY DESIGN ELEVATOR CAR VELOCITY CRITICAL PRESSURE DIFFERENCE MAXIMUM ALLOWABLE PRESSURE DIFFERENCE	INCHES SQ FT SQ FT INCHES INCHES SQ FT SQ FT INCHES SQ FT INCHES SQ FT INCHES LBS INCHES	0.125 0.21 20 80 X 36 0.125 0.21 20 84 X 42 0.40 6 0.35 0.05 10 3.5 30 350 0.01 0.25	SCOPE OF TESTING A. THE SMOKE CONTROL SYSTEM SHALL BE TESTED BY A SPECIAL INSPECTOR. B. TESTING SHALL COMPLY WITH F.B.C. SECTION 909 REQUIREMENTS AS WELL AS NFPA 92A C. QUALIFICATIONS — SPECIAL INSPECTION AGENCIES FOR SMOKE CONTROL SYSTEM TESTING SHAHAVE EXPERTISE IN FIRE PROTECTION ENGINEERING, MECHANICAL ENGINEERING, AND CERTIFICA



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BARNETT FRONCZAK BARLOWE

Leon County
Courthouse Annex
(Bank of America) Stair
& Elevator
Pressurization
Drawn By: RCT

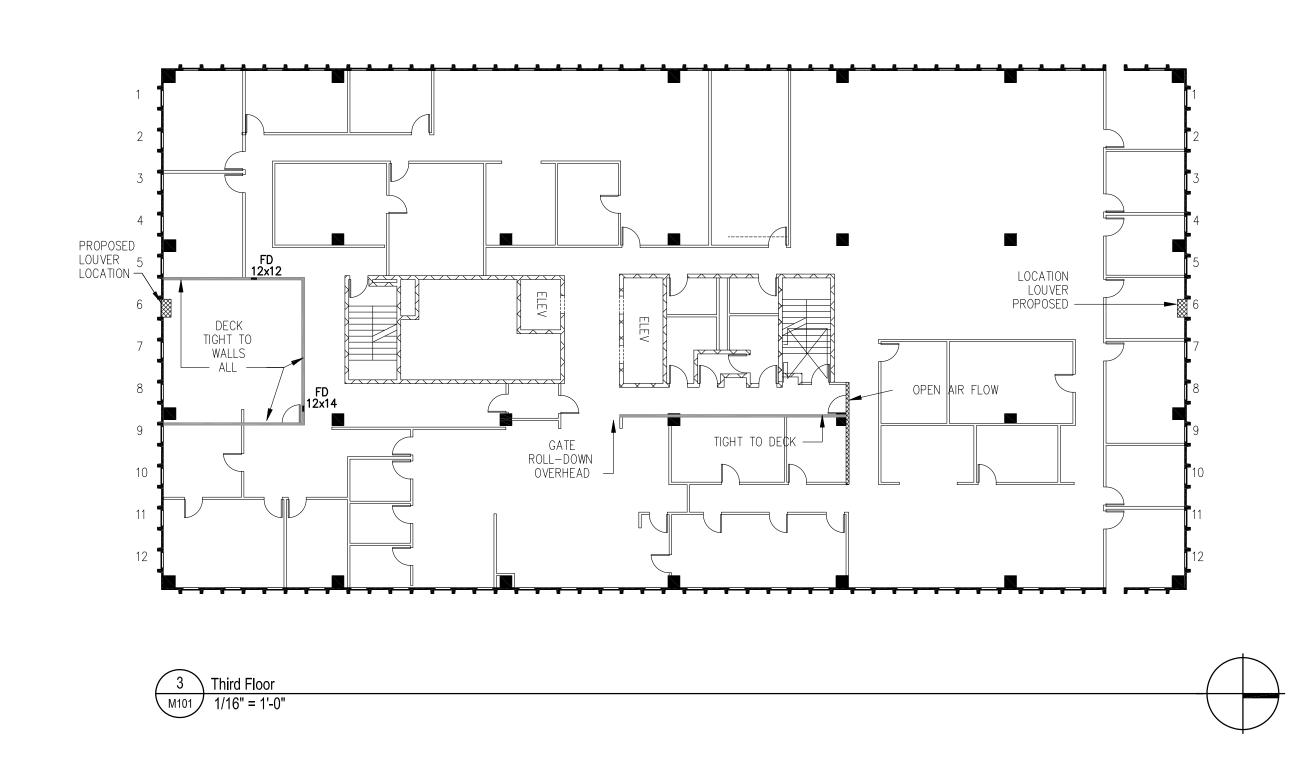
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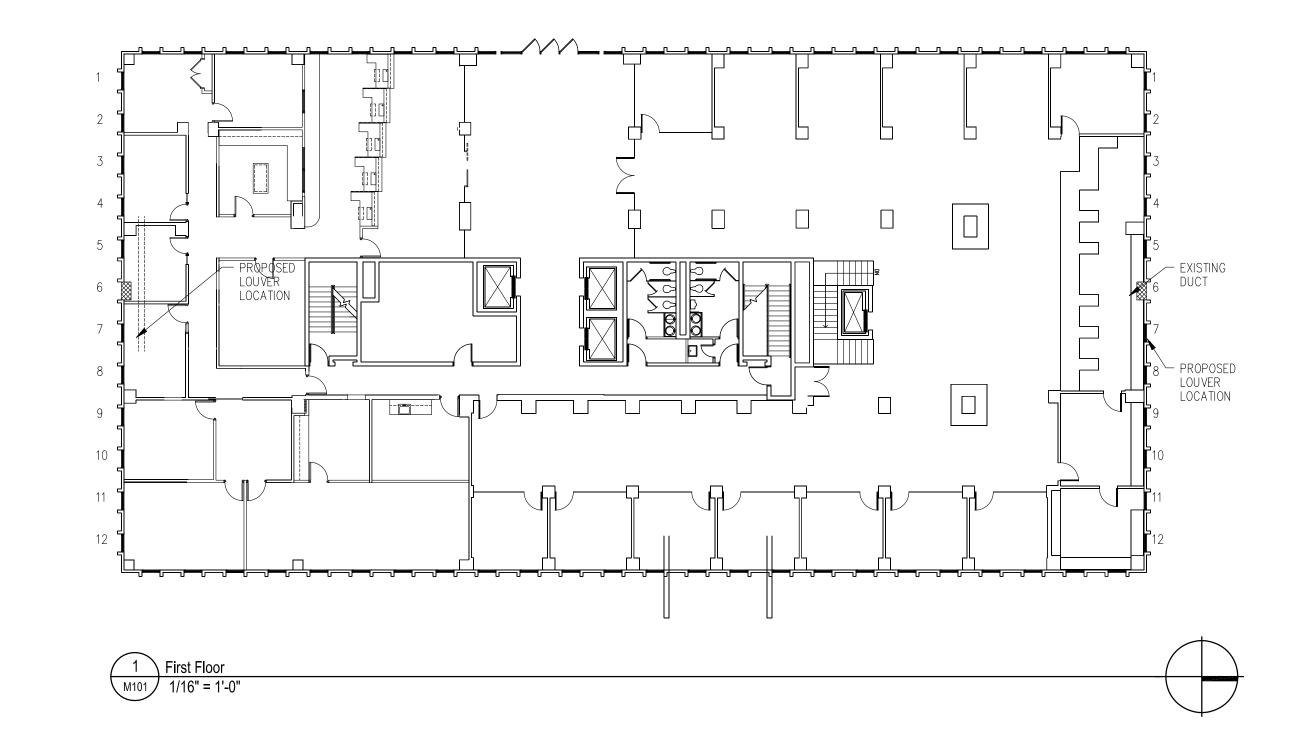
27 April 2012

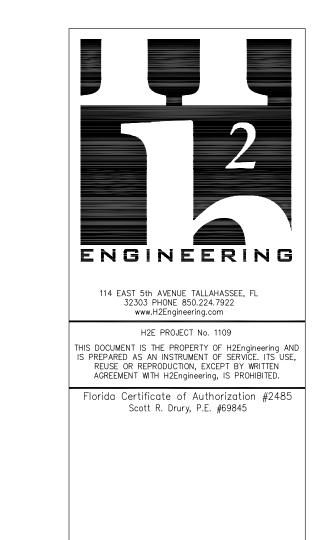
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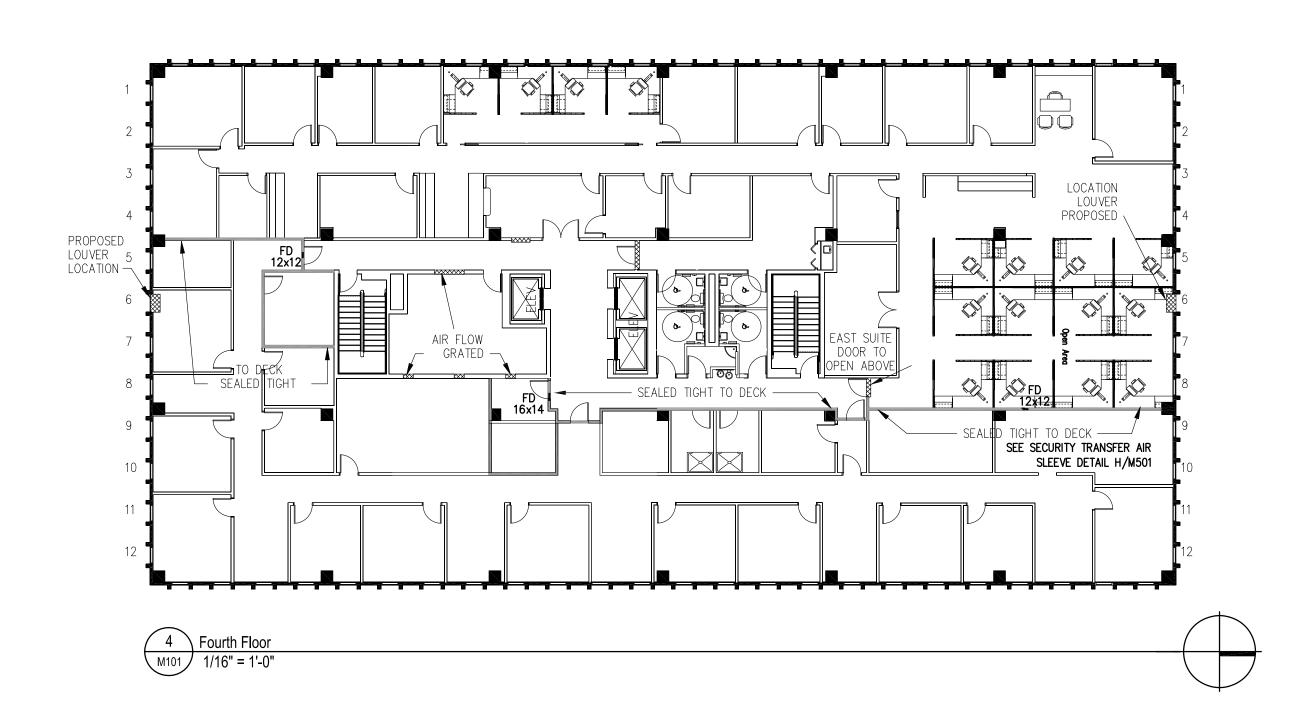
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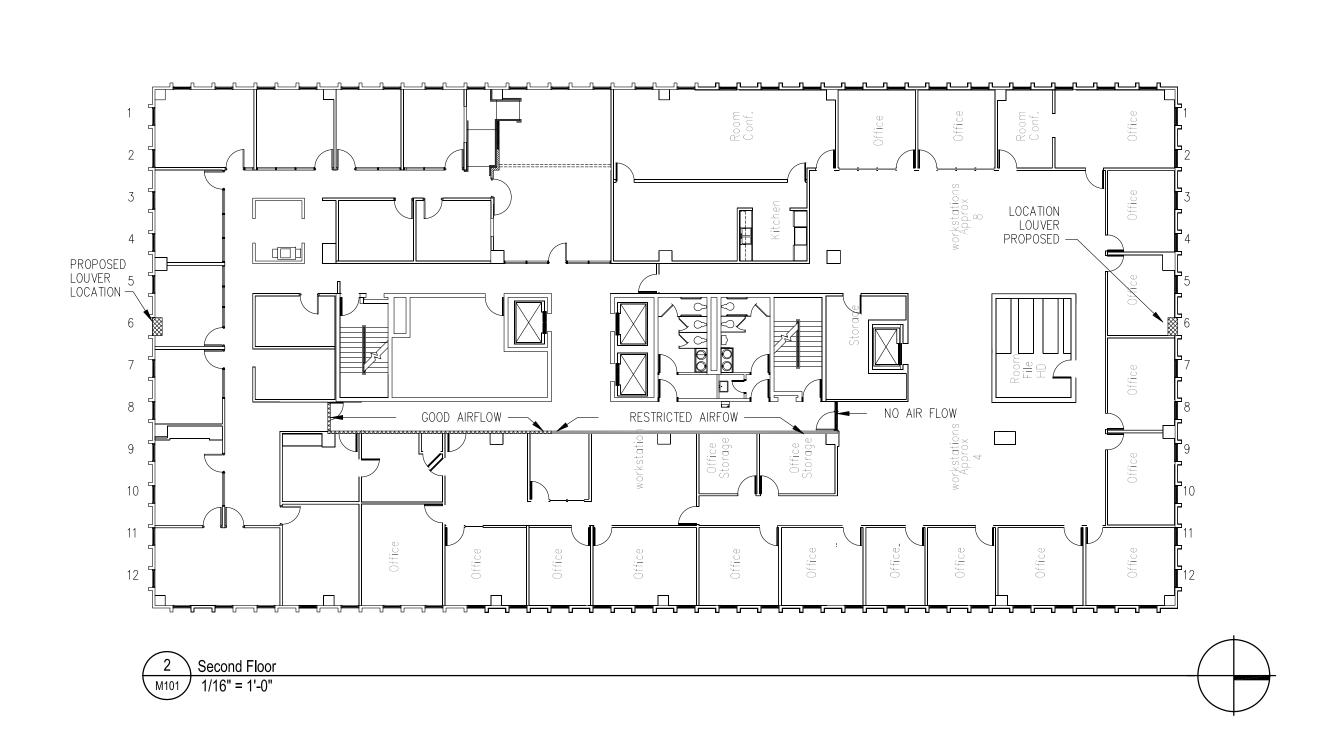
225 South Adams St, Tallahassee, FL 32301 Fax 850 561-6978 Phone 850 224-6301













Project Code

27 April 2012

Construction Documents

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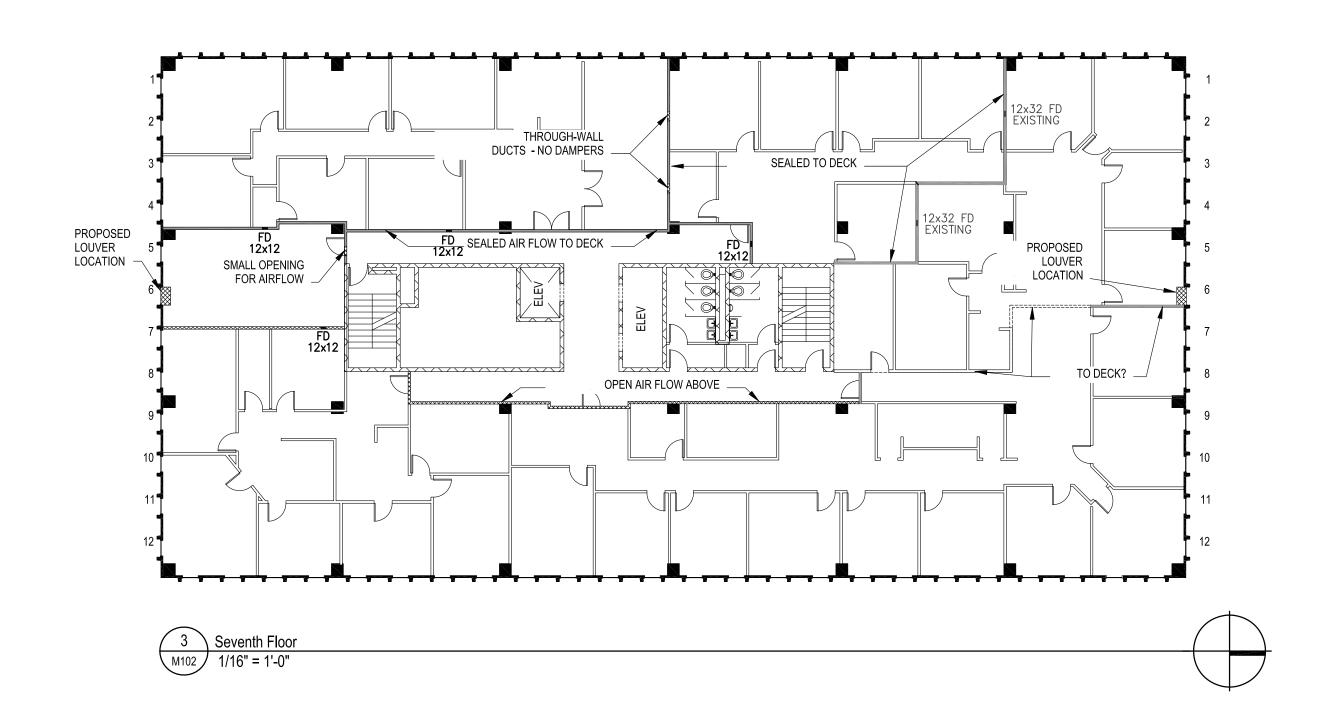
FLOOR PLAN -LEVELS 1-4 -MECHANICAL

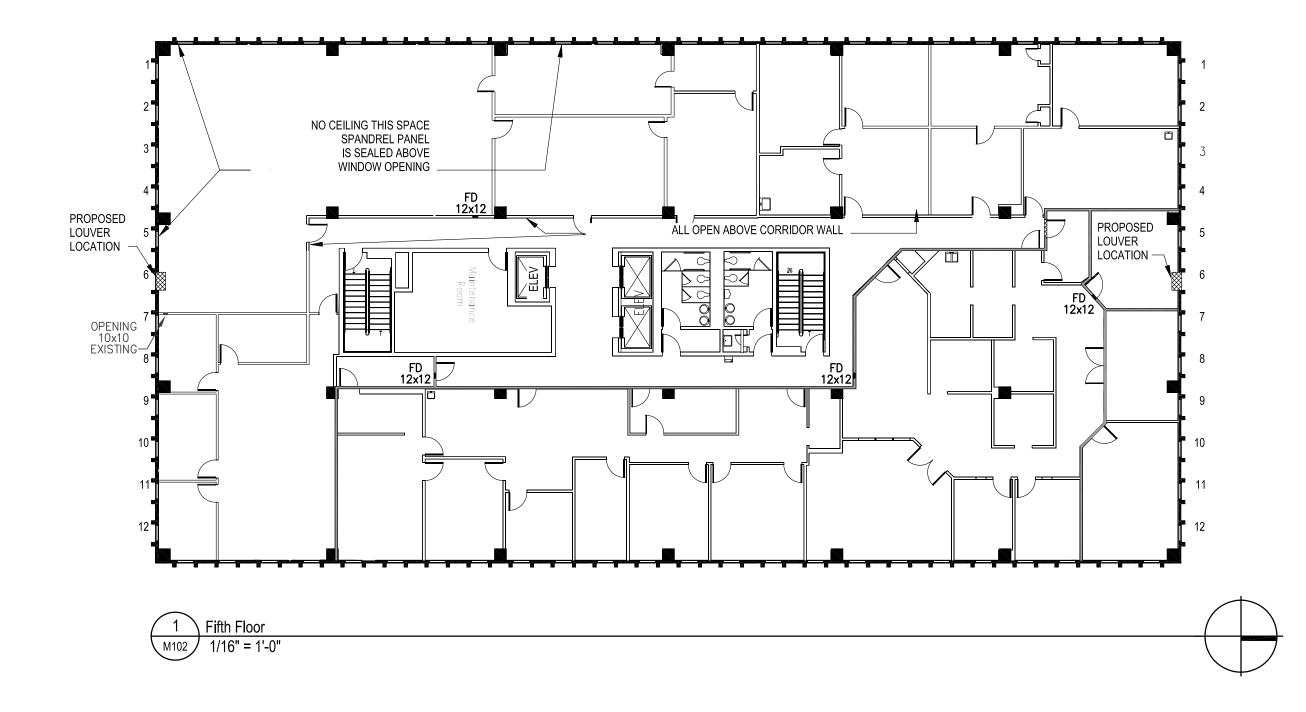
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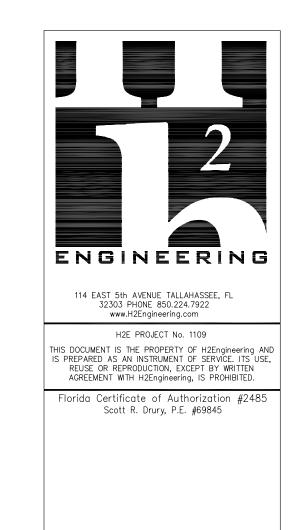
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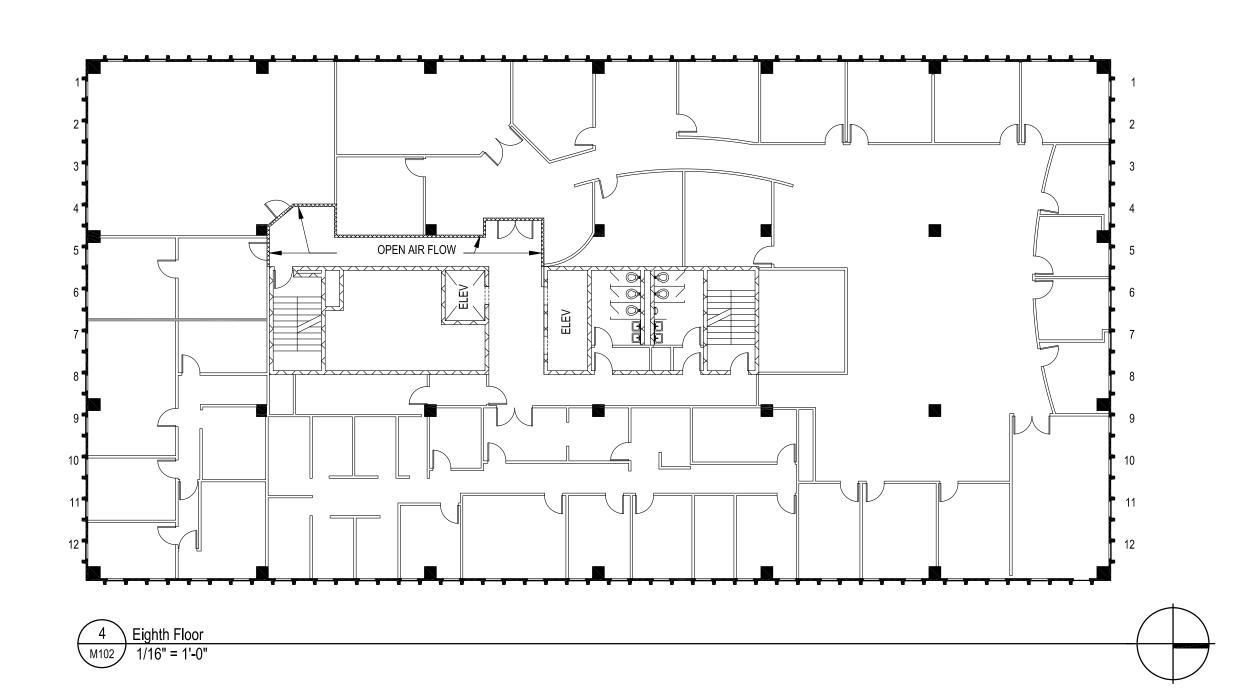
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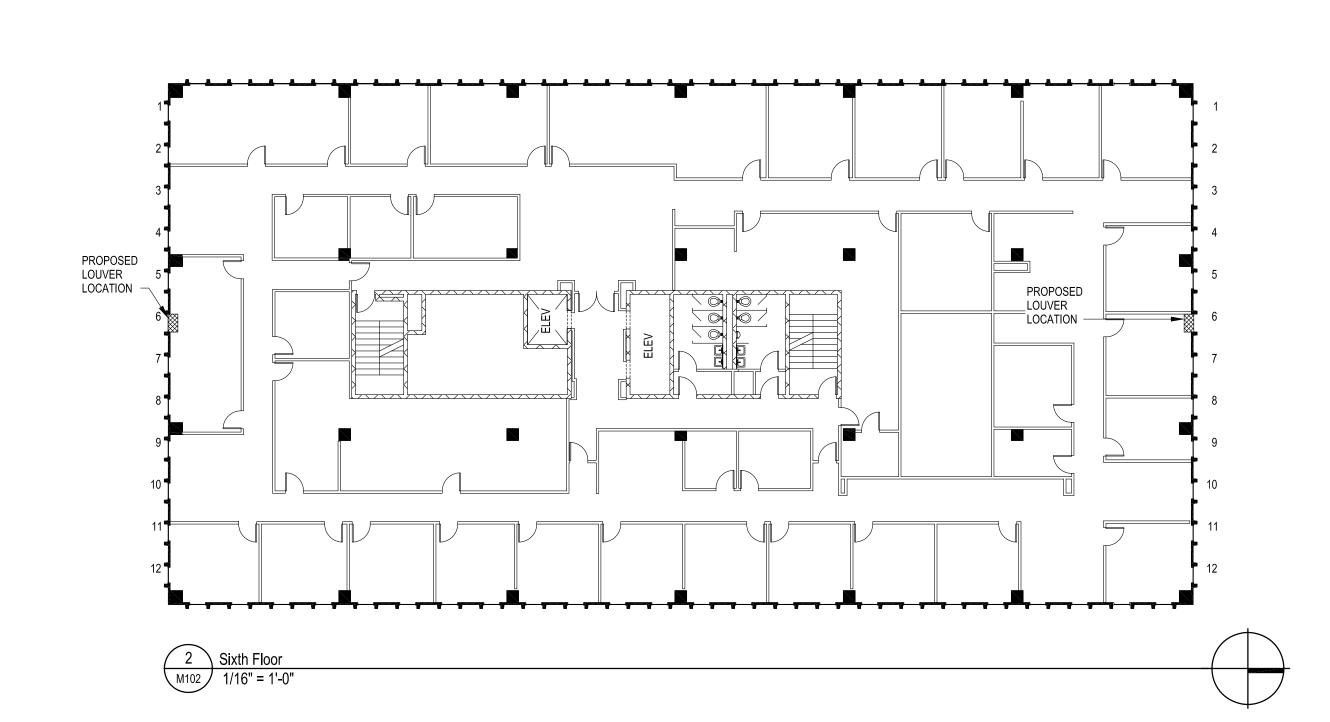
Fax 850 561-6978













Leon County Courthouse Annex (Bank of America) Stair & Elevator Pressurization

Project Code

Checked By: SRD

27 April 2012

Construction Documents

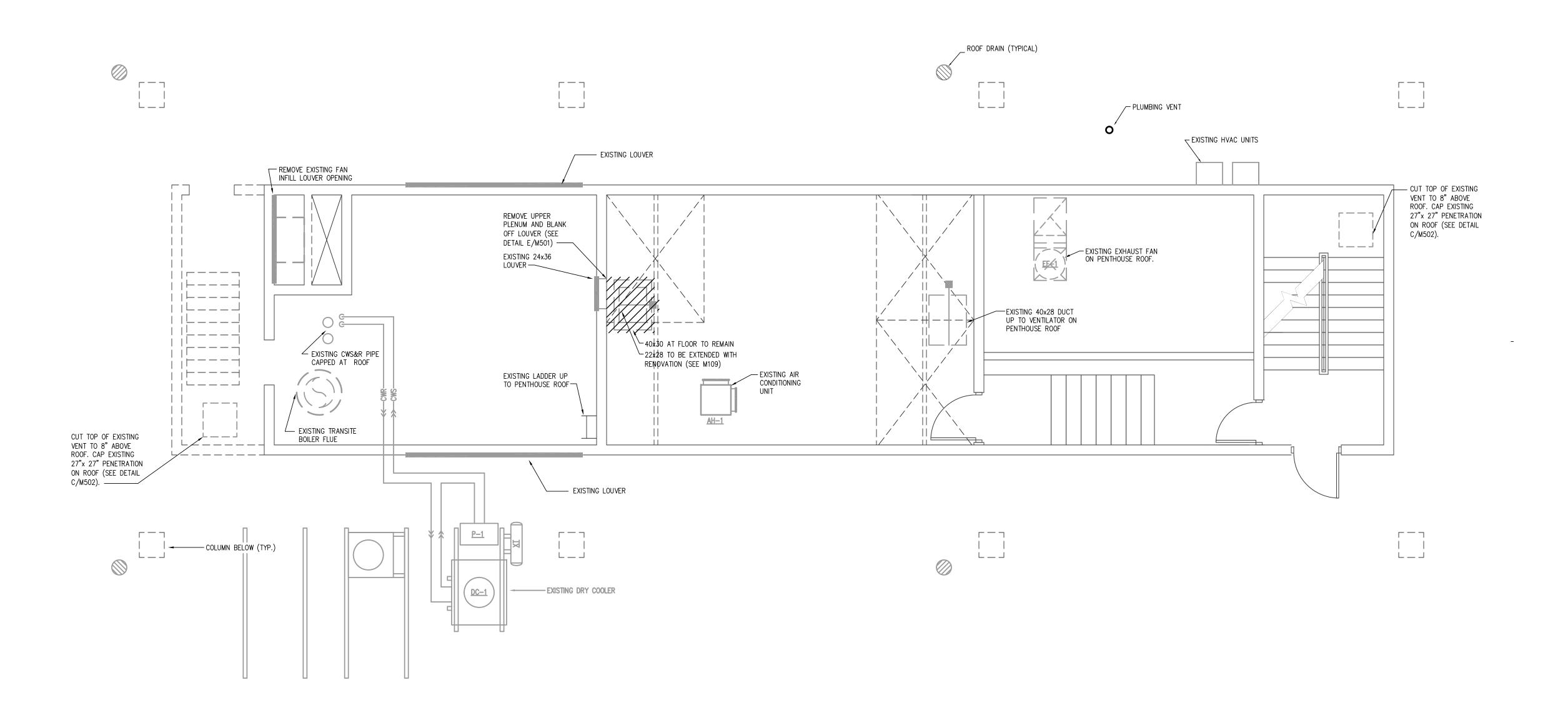
Revisions

FLOOR PLAN -LEVELS 5-8 -**MECHANICAL**

Phone 850 224-6301

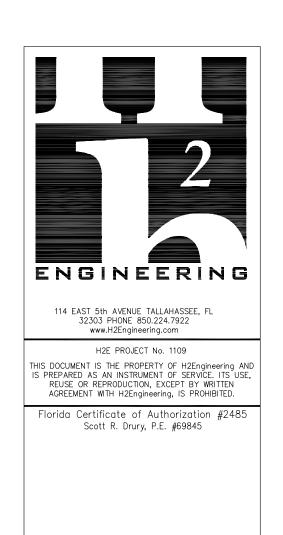
Tallahassee 225 South Adams St, Tallahassee, FL 32301

Fax 850 561-6978



PARTIAL ROOF & PENTHOUSE DEMOLITION PLAN - MECHANICAL

MD109 SCALE 1/4"-1'-0"





Leon County
Courthouse Annex
(Bank of America) Stair
& Elevator

Pressurization
12062
Drawn By:

27 April 2012

Date

Construction Documents

PARTIAL ROOF & PENTHOUSE DEMOLITION PLAN - MECHANICAL

Tallahassee Florida

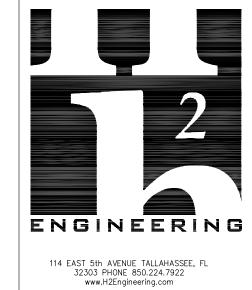
MD109

225 South Adams St, Tallahassee, FL 32301

Fax 850 561-6978

Phone 850 224-6301

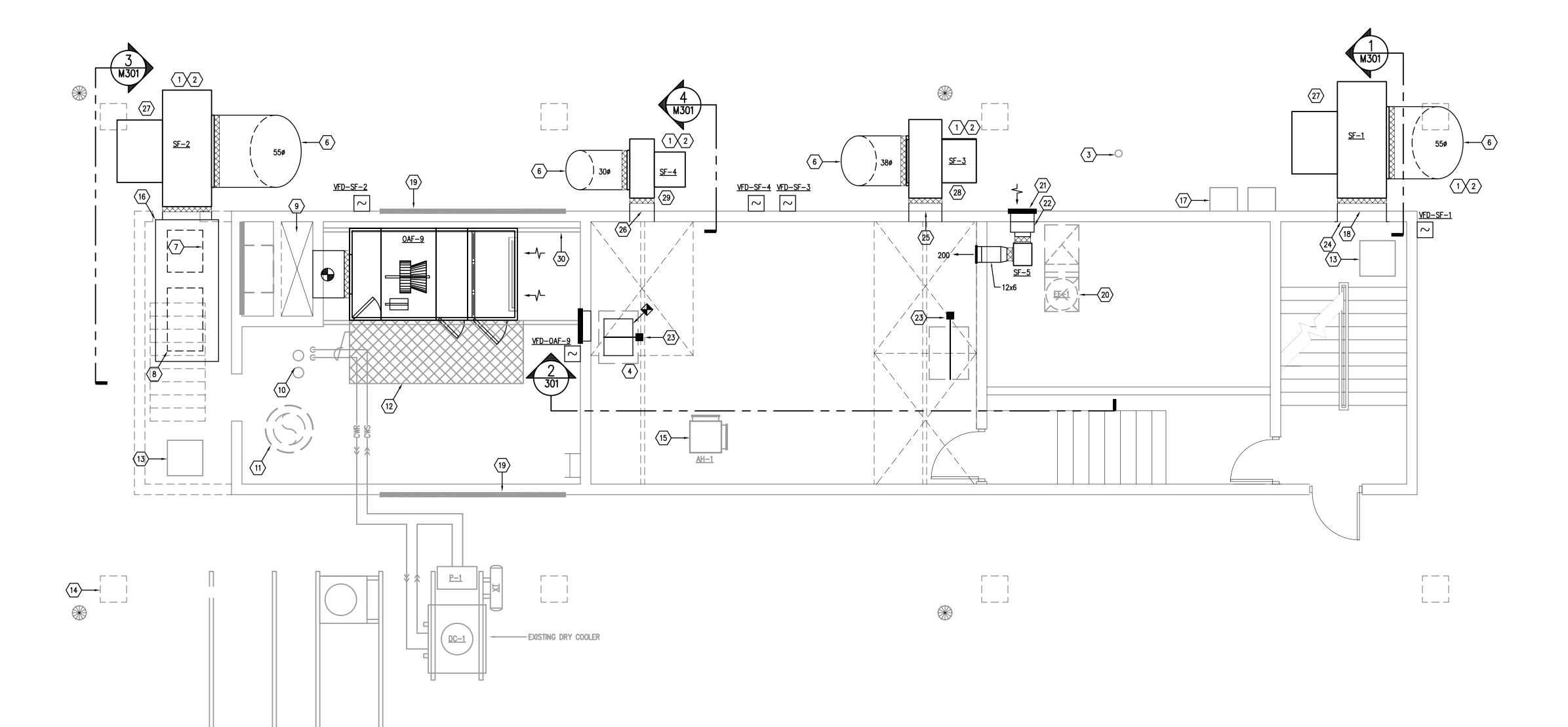
RENOVATION KEY NOTES:		
ROOF CURB SHALL EXTEND 8" AFR. FIELD VERIFY EXISTING ROOF THICKNESS. (SEE DETAIL B/M502).	11) EXISTING TRANSITE BOILER FLUE.	21) 18x12 LOUVER — SEE ARCHITECTURAL PLANS.
2 SECUREMENT AND ATTACHMENT OF CURB AND FAN BY DELEGATED DESIGN.	SUPPORT RAILS AND ACCESS PLATFORM - SEE STRUCTURAL PLANS.	8" DEEP PLENUM. SLOPE TO DRAIN WITH MINIMUM 1% SLOPE.
3 EXISTING PLUMBING VENT.	CAPPED VENT.	23 REPLACE DAMPER ACTUATOR PER SPECIFICATIONS. DAMPER TO REMAIN.
EXTEND 22x28 DUCT THRU ROOF. SEAL PENETRATION WATERTIGHT (SEE ARCHITECTURAL DRAWINGS)	COLUMN BELOW (TYPICAL).	PROVIDE ½" MESH WELDED STAINLESS STEEL WITH MINIMUM 80% FREE AREA.
5 COORDINATE LOCATION BETWEEN EXISTING STRUCTURE (TYPICAL OF 4 LOCATIONS). PROVIDE MINIMUM 20 FEET FROM SMOKE FAN INLETS.	EXISTING AIR CONDITIONING UNIT.	25 26"x37" OPENING INTO SHAFT — SEE STRUCTURAL PLANS.
6 MITER DUCT AT 45 DEGREEES FOR RAIN PROTECTION. SLOPE TO DRAIN. PROVIDE DUCT SUPPORT.	NEW 48"x108"x114" PLENUM MOUNTED ON CURB.	26 19"x27" OPENING INTO SHAFT — SEE STRUCTURAL PLANS.
7 NEW 27"x32" PENETRATION ON ROOF — SEE STRUCTURAL PLANS.	EXISTING HVAC UNIT (TYPICAL OF 2).	TOTAL COMBINED WEIGHT OF FAN, CURB, AND WIND RESTRAINTS SHALL NOT EXCEED 2000 LBS.
8 NEW 27"x48" PENETRATION ON ROOF — SEE STRUCTURAL PLANS.	18 38"x54" OPENING — SEE STRUCTURAL PLANS.	TOTAL COMBINED WEIGHT OF FAN, CURB, AND WIND RESTRAINTS SHALL NOT EXCEED 1100 LBS.
9 CLEAN OUTSIDE AIR SHAFT — SEE SPECIFICATIONS.	19 NEW LOUVER - SEE ARCHITECTURAL PLANS.	TOTAL COMBINED WEIGHT OF FAN, CURB, AND WIND RESTRAINTS SHALL NOT EXCEED 800 LBS.
(10) EXISTING CWS&R PIPE CAPPED AT ROOF.	20 EXISTING EXHAUST FAN ON PENTHOUSE ROOF ABOVE.	30 ATTACH AND SECURE OAF-9 TO EQUIPMENT RAILS (SEE DETAIL A/M502)



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Leon County Courthouse Annex (Bank of America) Stair & Elevator Pressurization 12062 Drawn By: RCT

Project Code

27 April 2012

Construction

Documents

PARTIAL ROOF & PENTHOUSE PLAN - MECHANICAL

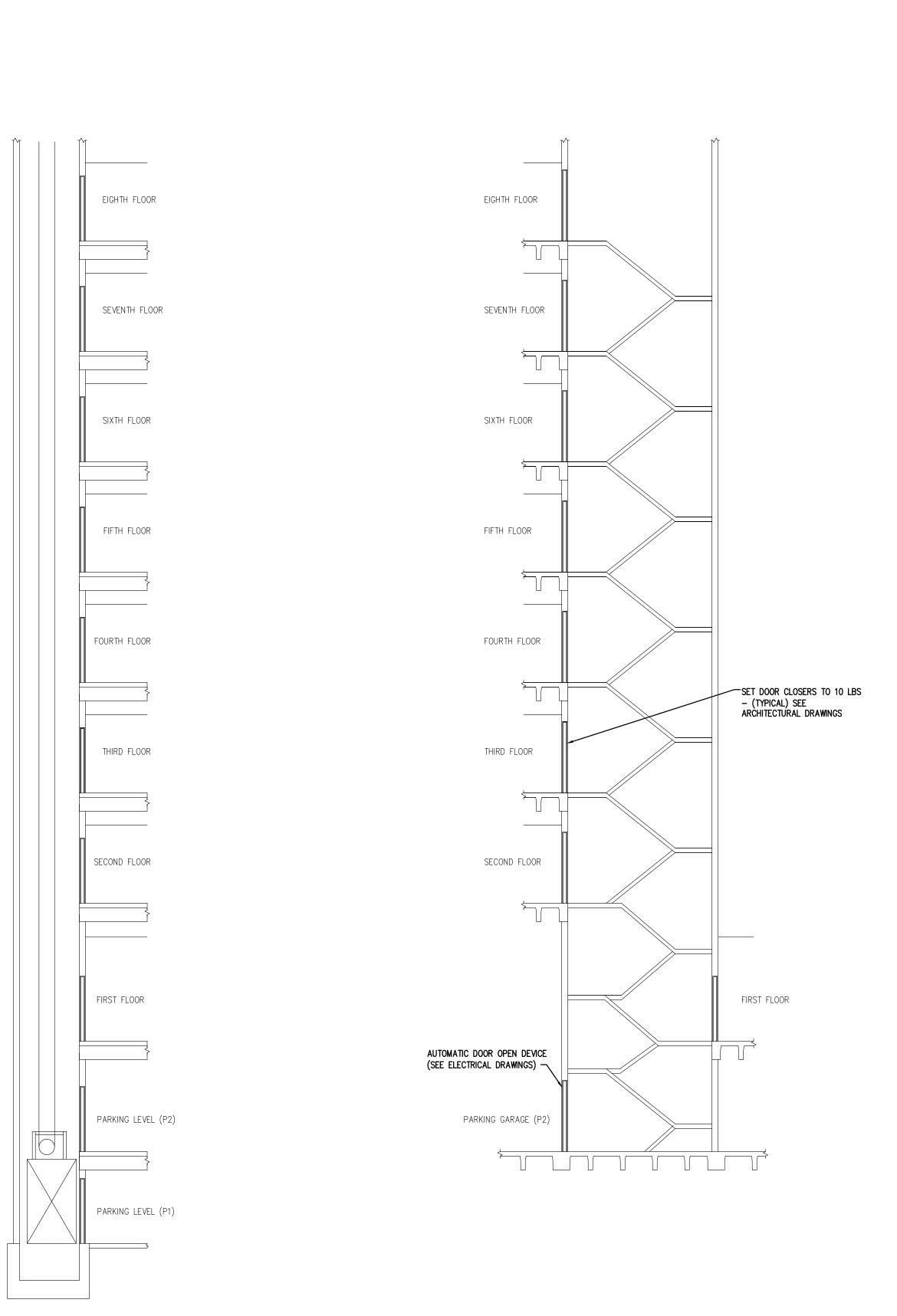


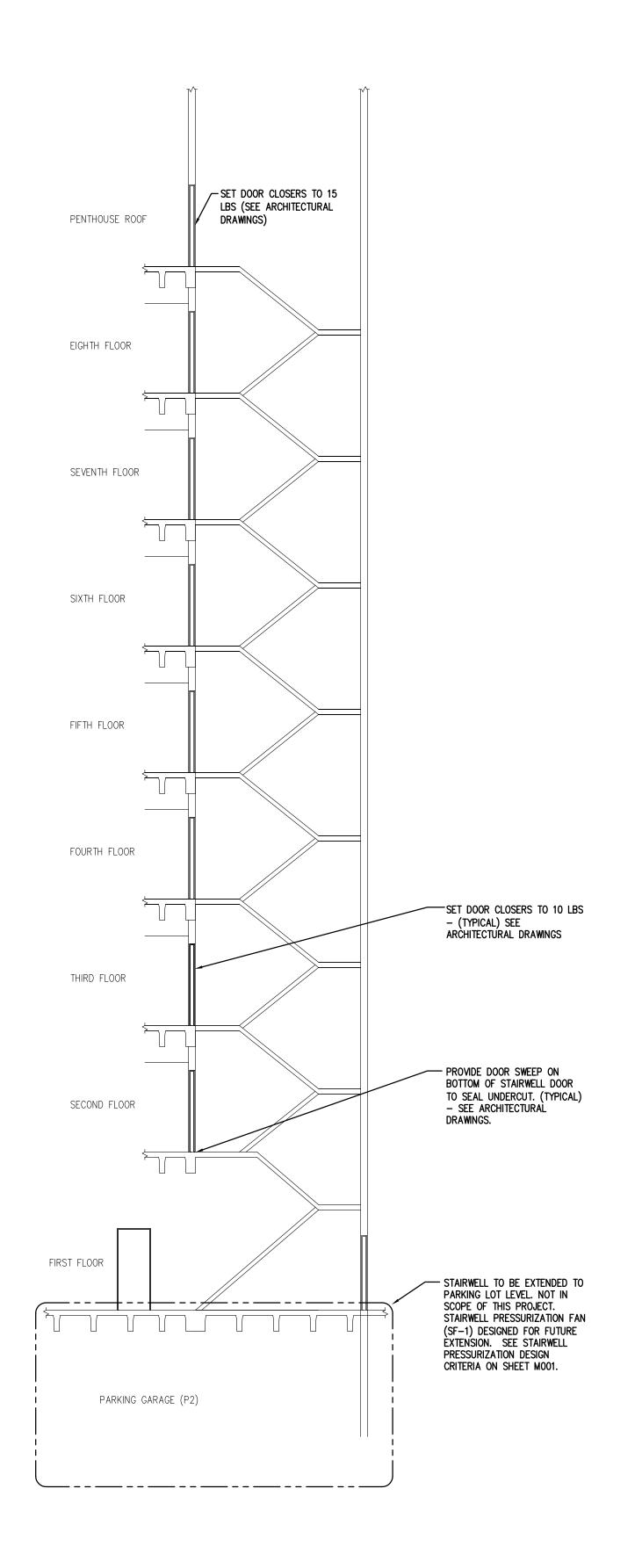
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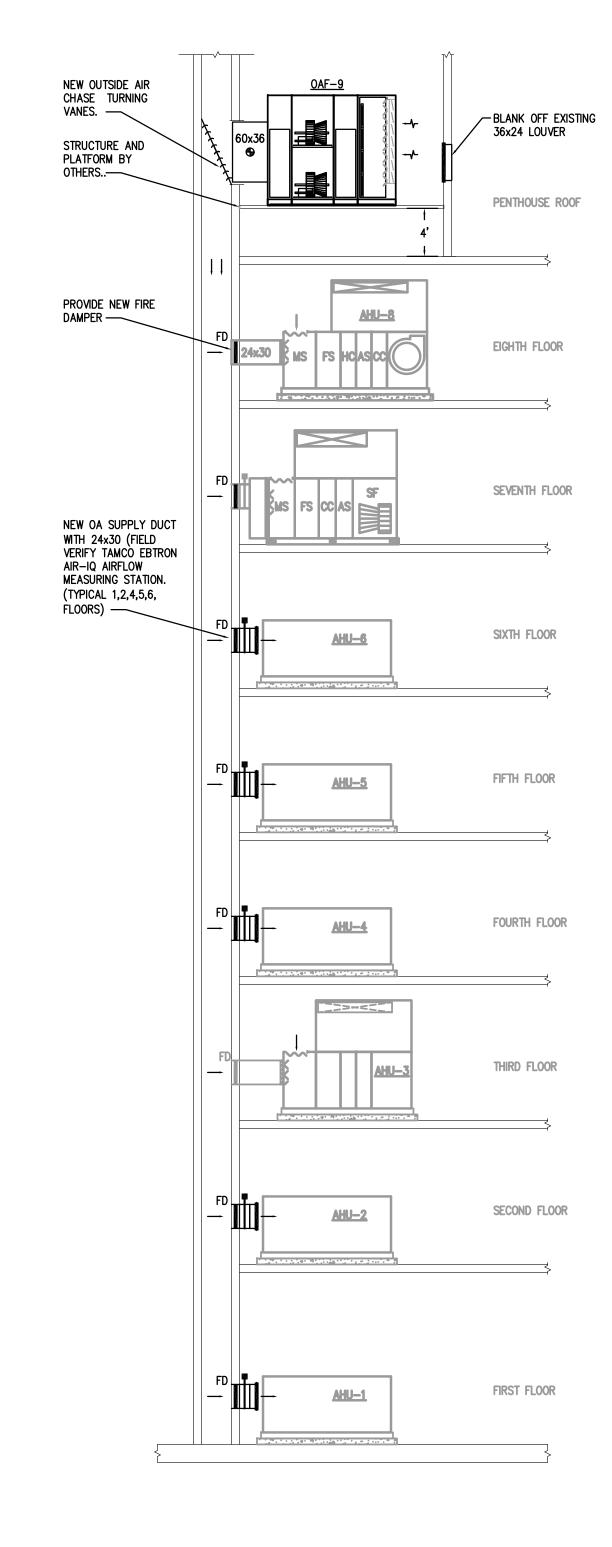
225 South Adams St, Tallahassee, FL 32301

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Leon County Courthouse Annex (Bank of America) Stair & Elevator

Pressurization Dra Project Code

27 April 2012

Construction Documents

RISERS - MECHANICAL

Fax 850 561-6978

ELEVATOR RISER - MECHANICAL M201 SCALE - NTS **BOA TOWER**

STAIR#2 RISER - MECHANICAL M201 SCALE - NTS **BOA TOWER**

M201 SCALE - NTS

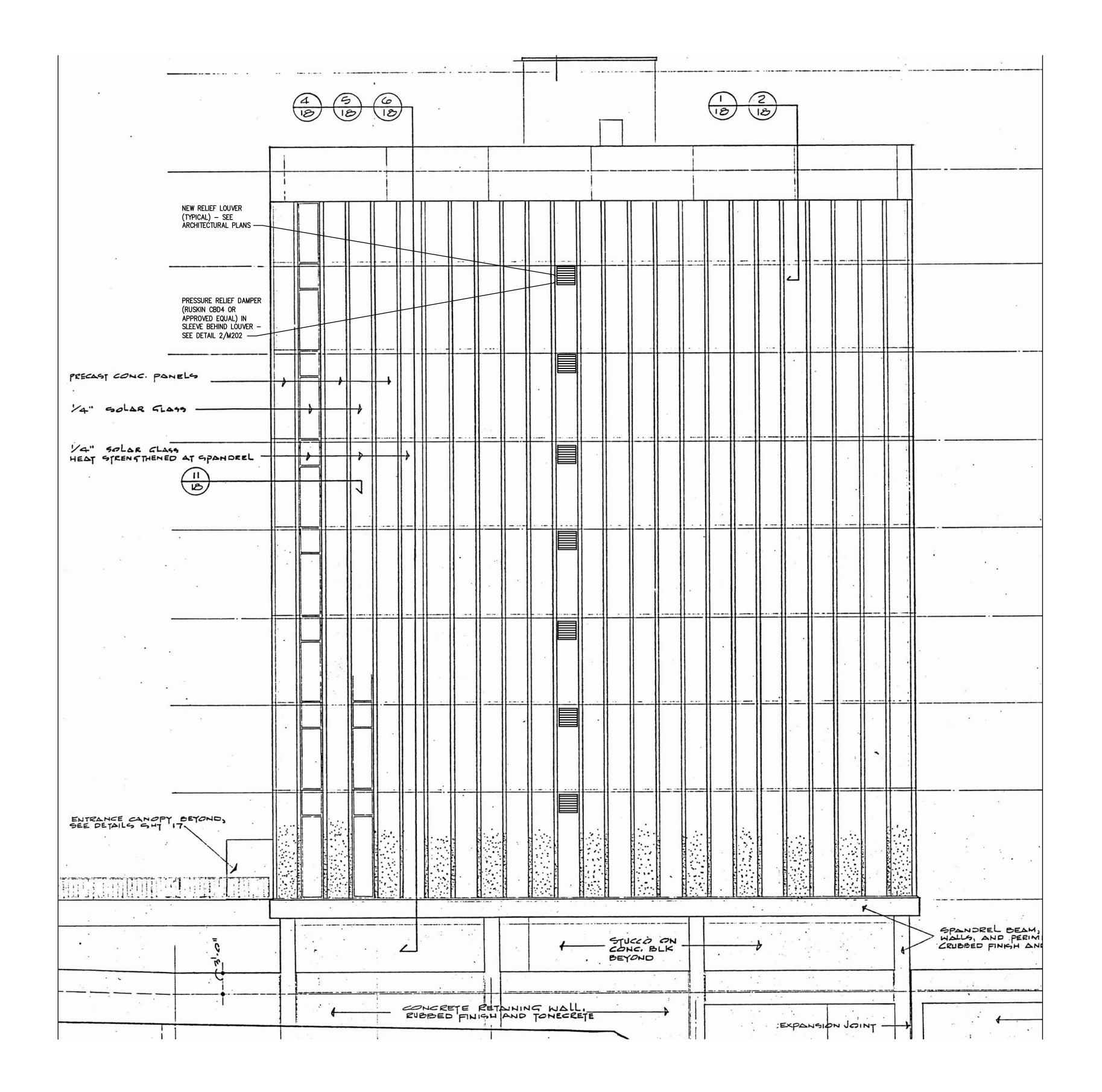
STAIR#1 RISER - MECHANICAL **BOA TOWER**

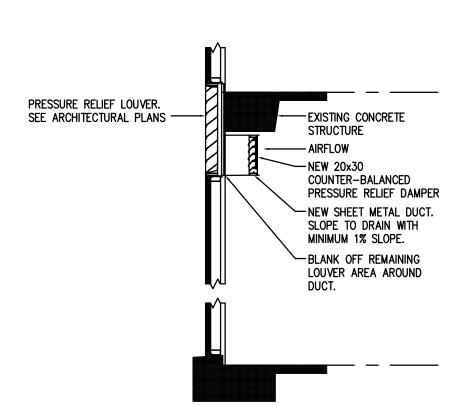
OUTSIDE AIR CHASE RISER - MECHANICAL M201 SCALE - NTS

> Tallahassee 225 South Adams St, Tallahassee, FL 32301

> > Phone 850 224-6301

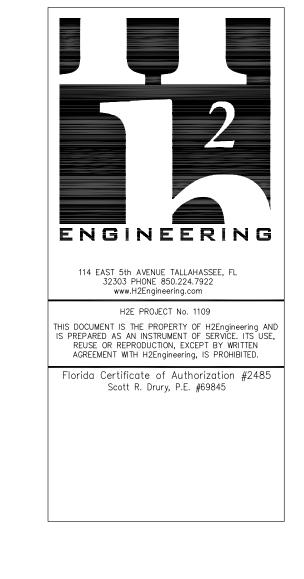
BOA TOWER













Pressurization Draw Project Code

Checked By: SRD

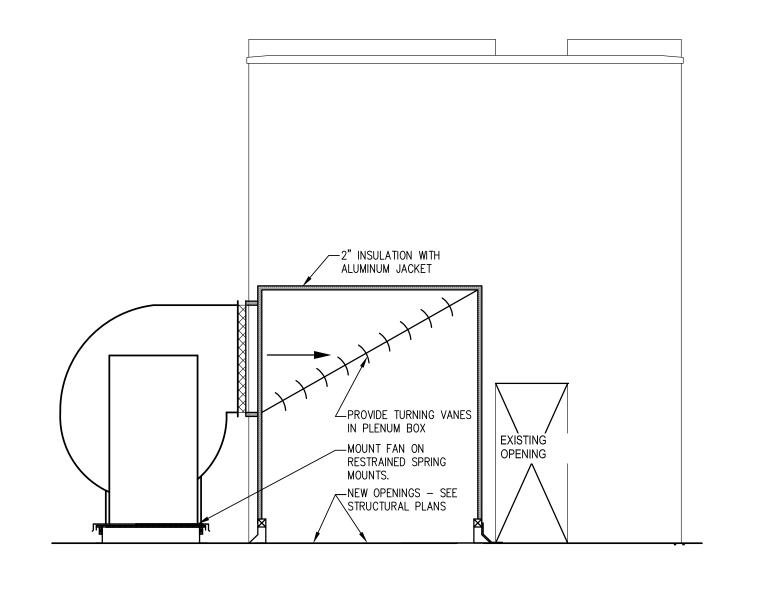
27 April 2012

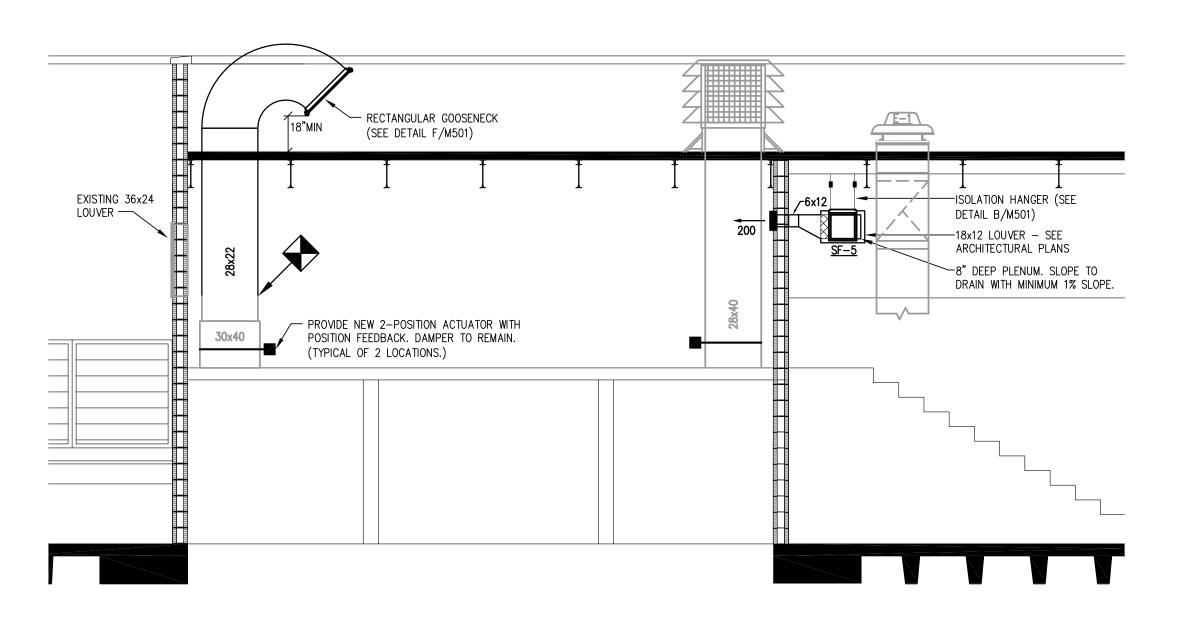
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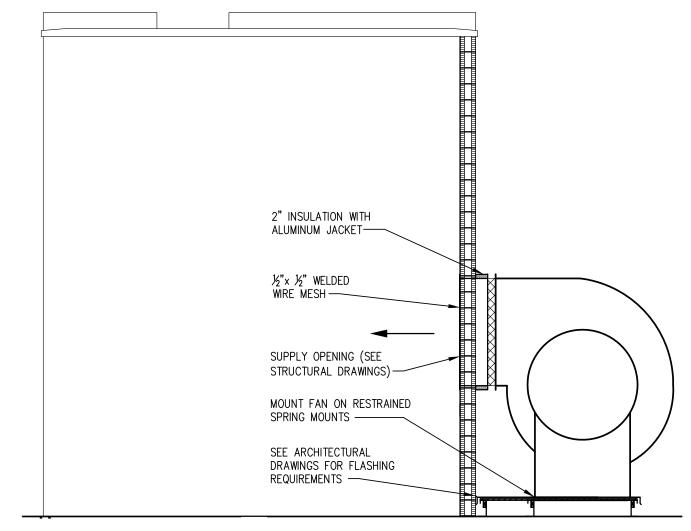
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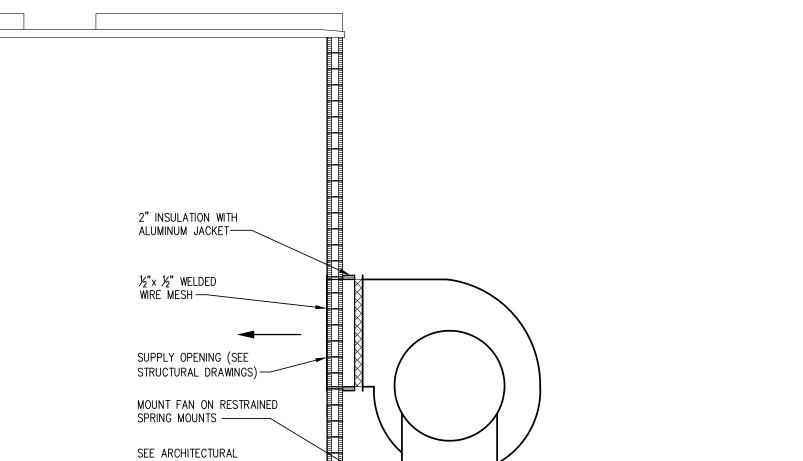
RISERS - MECHANICAL

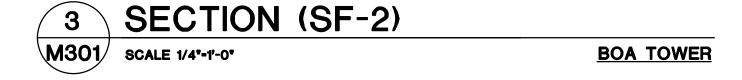




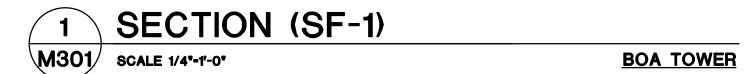


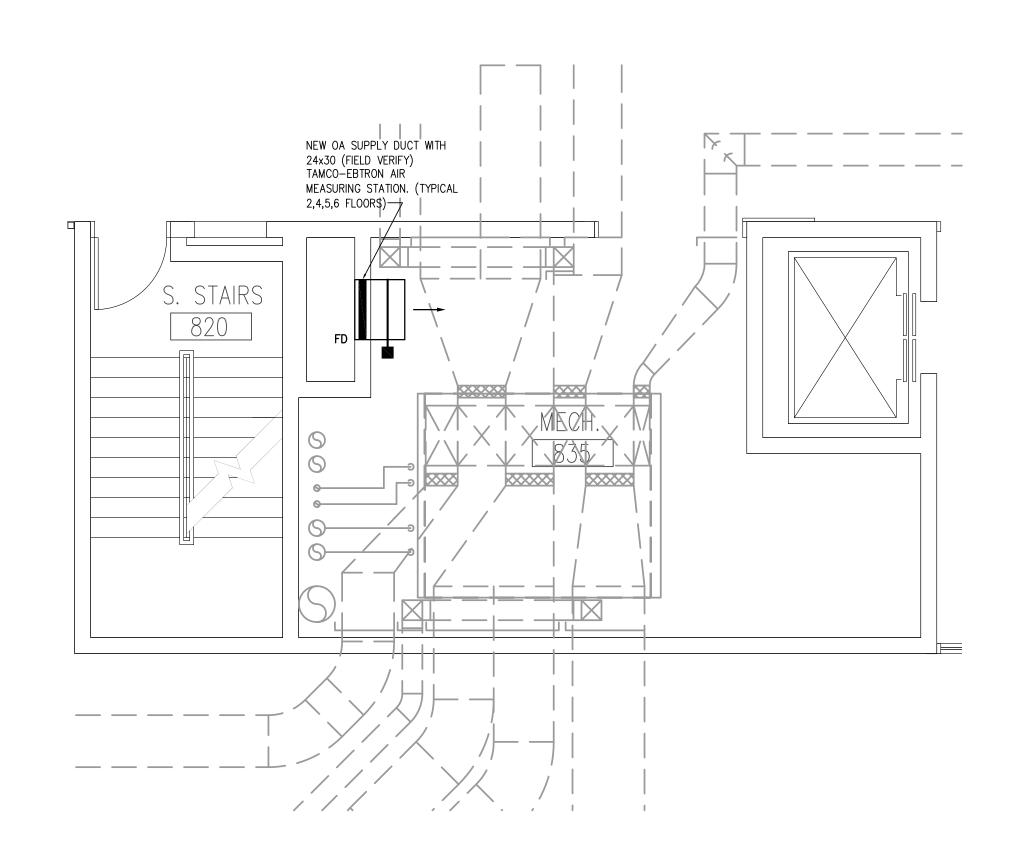


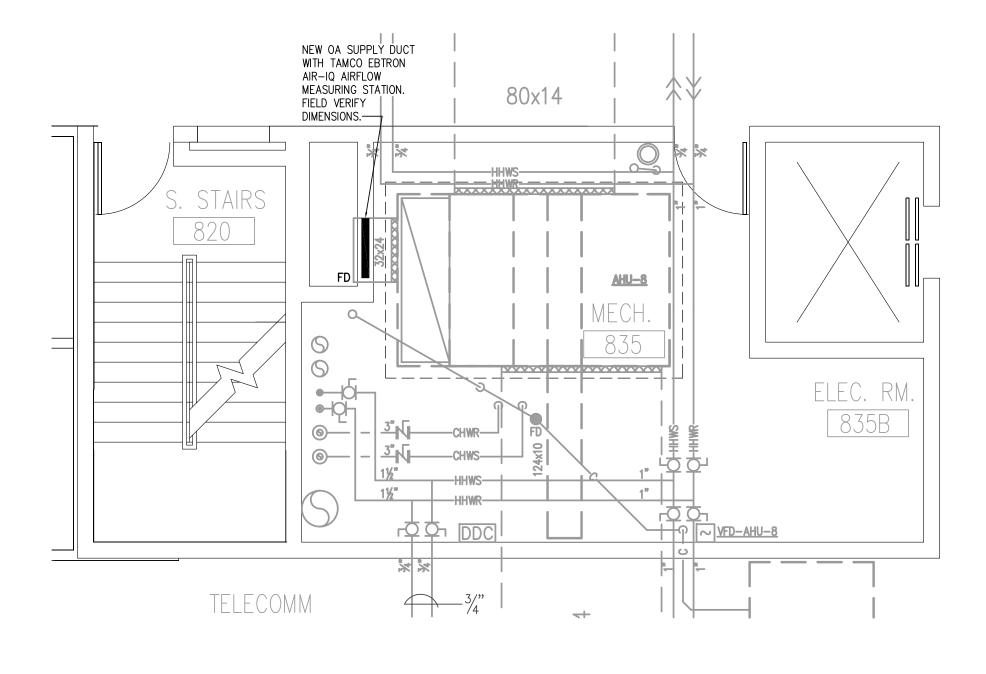


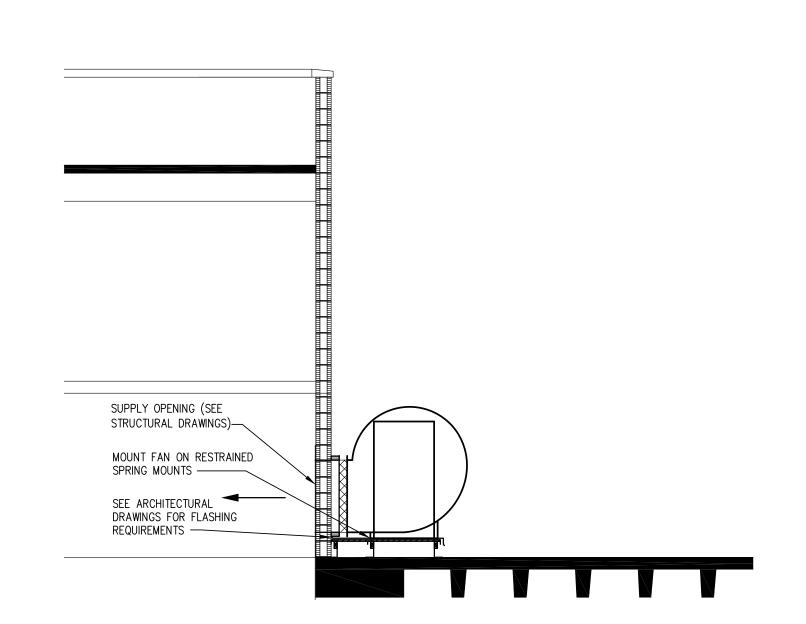






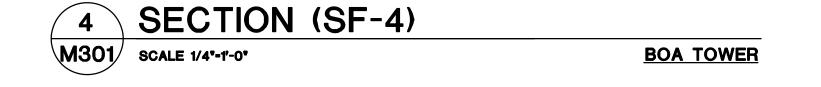














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114 EAST 5th AVENUE TALLAHASSEE, FL 32303 PHONE 850.224.7922 www.H2Engineering.com

H2E PROJECT No. 1109

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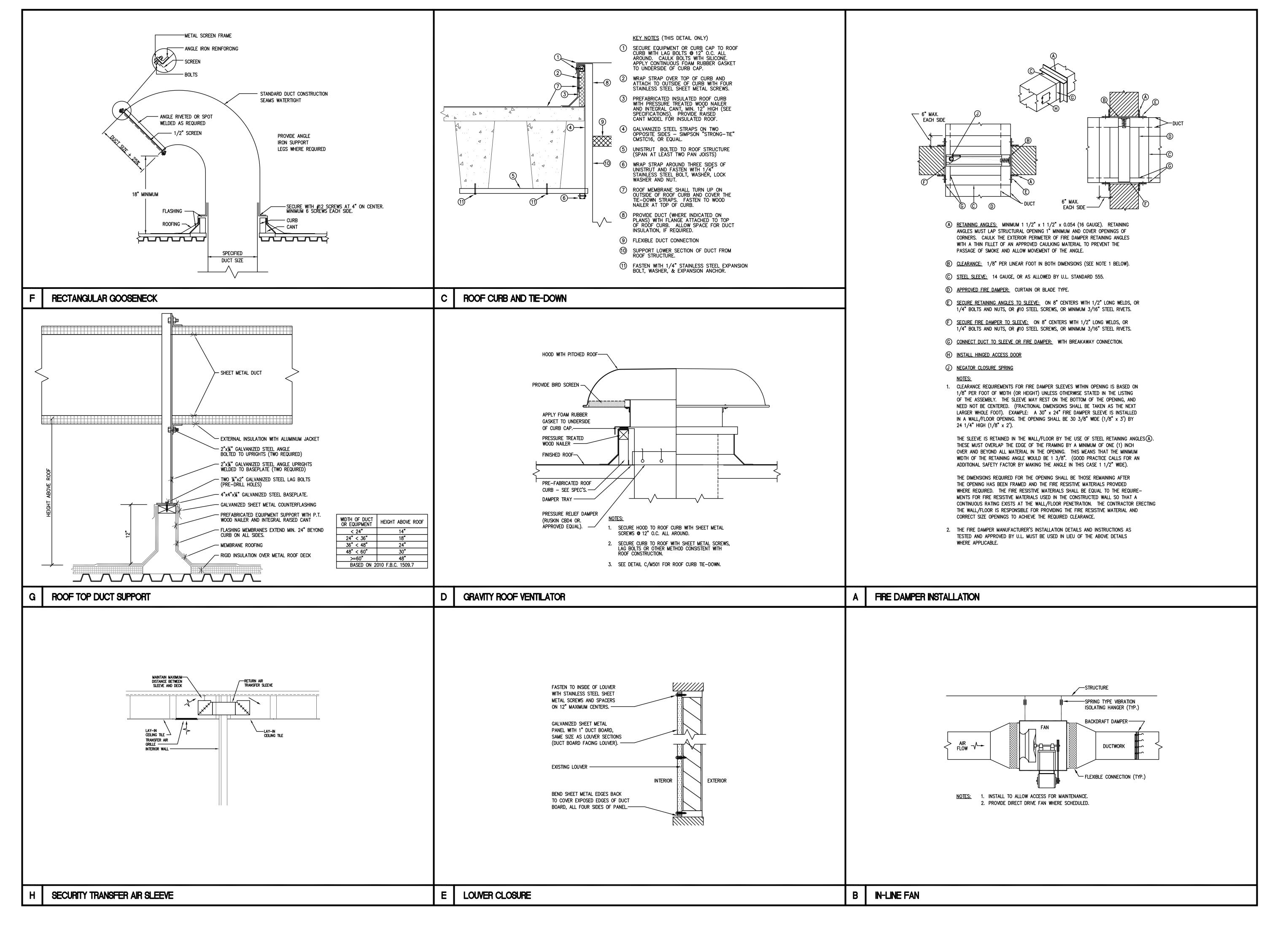
Leon County Courthouse Annex (Bank of America) Stair & Elevator Pressurization Dra

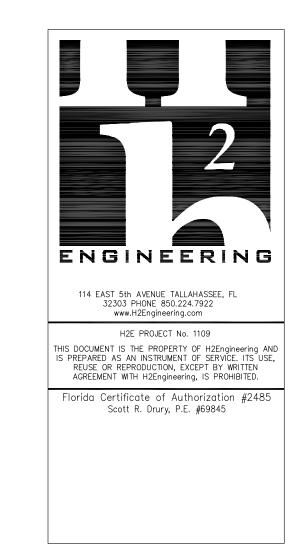
27 April 2012

Construction Documents

SECTIONS AND ENLARGEMENTS -**MECHANICAL**









Pressurization Drawn B

Project Code Checked By: SRD

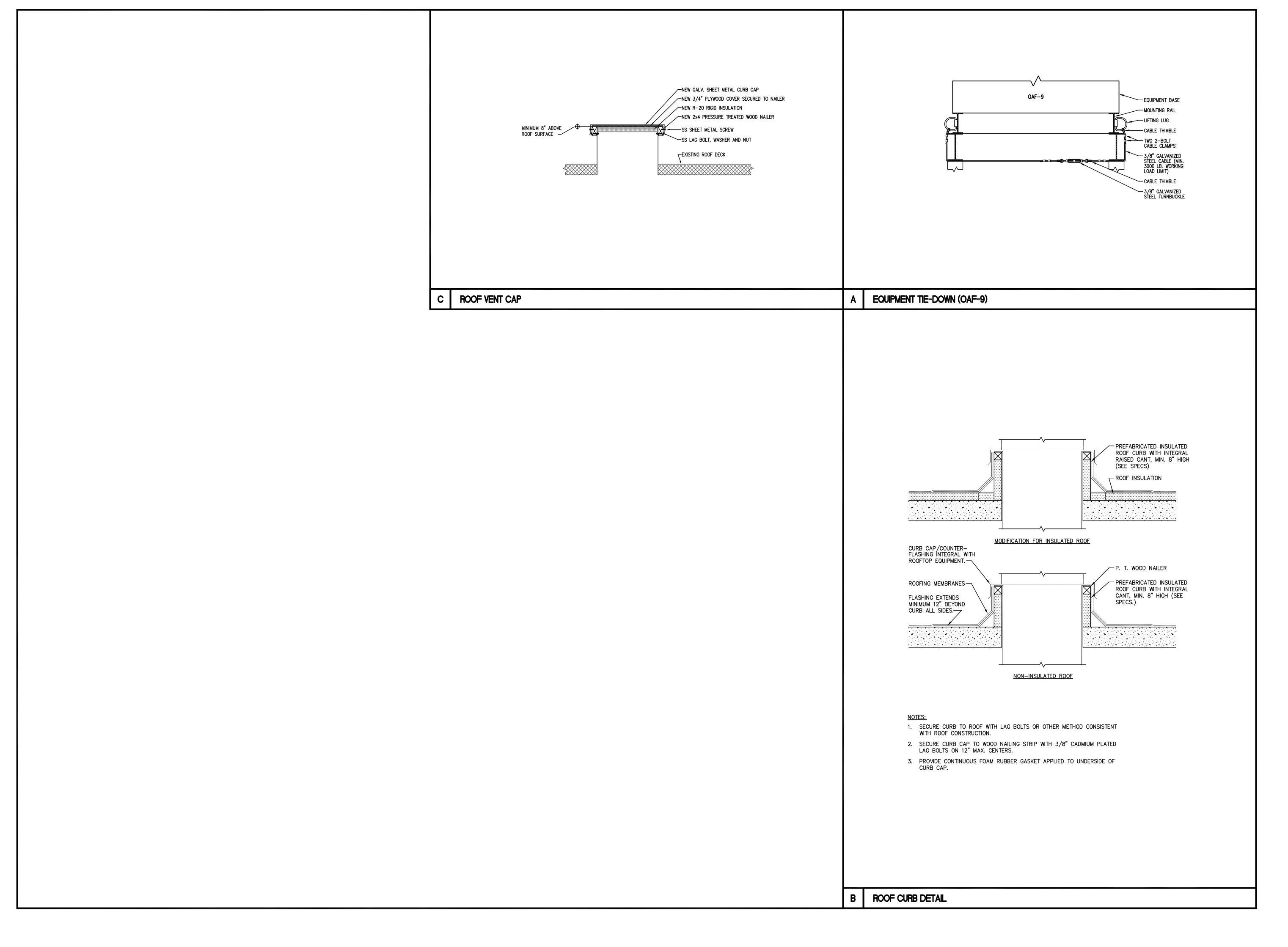
27 April 2012

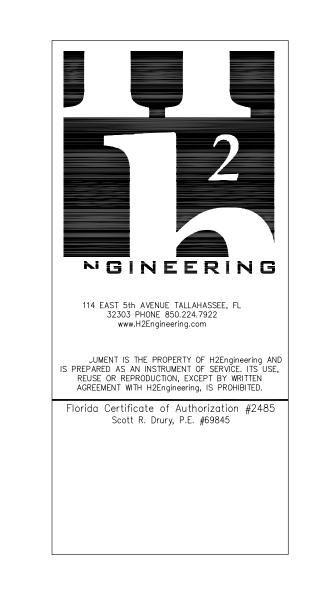
Construction Documents

DETAILS - MECHANICAL

lahassee Florida

M501







Pressurization Drawn By:

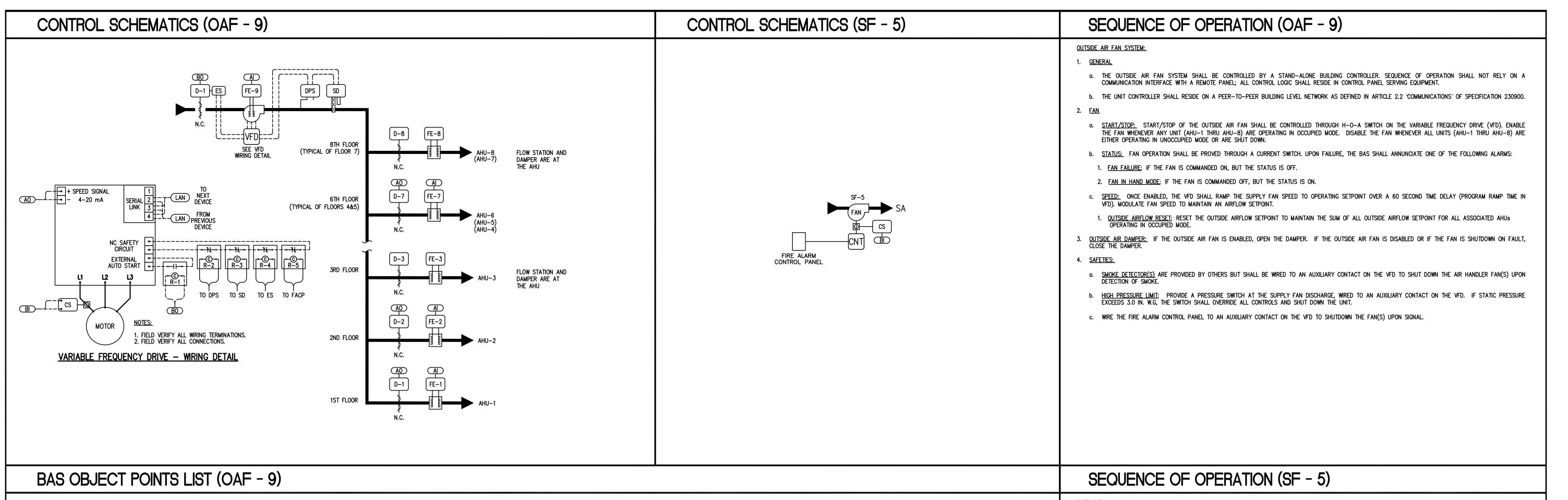
Project Code Checked By: SRD 27 April 2012

Construction Documents

DETAILS - MECHANICAL

M502

225 South Adams St, Tallahassee, FL 32301
Phone 850 224-6301 Fax 850 561-6978



					Р	OINTS	S									A	APPLIC/	ATIONS									RF	PORTS	/ ME	SSAG	FS	CP	ДРНІ	C SCF	FFN	
		PHY	SICA	L	VI	IRTUA	ľ						ALARM	S			T	RENDS		PROC	RAMS		CON	ITROL	_ L00)P	2	OKIC	/ WIL			J GIV	AI 1111	0 301	LLIN	
	INI	PUT	OU	TPUT																																1
	BINARY	ANALOG	BINARY	ANALOG	INTEROPERABLE	CALCULATED	SETPOINT	USER ADJUSTABLE	Initial or default value	BINARY ALARM	LEVEL	LOW LEVEL ALARM	HIGH LEVEL ALARM	LOW LEVEL ALARM	AUTO RESET	MANUAL RESET	IREND (CHANGE OF VALUE) TREND (SAMPLE INTERVAL)	C.O.V. or SAMPLE INTERVAL	SCHEDULING	WEEKLY TESTING	OPERATOR OVERRIDE	SETPOINT RESET PROGRAM	DIRECT ACTING REVERSE ACTING	PROPORTIONAL CONTROL	INTEGRAL CONTROL	DERIVATIVE CONTROL	ALARM LOG (REPORT DAILY)	REPORT (WEEKLY)	REPORT (MONTHLY)	REPORT (ANNUAL)	ALAKM INSTRUCTION MAINTENANCE MESSAGE	outside air fan	AIR HANDLING UNIT	TERMINAL UNIT SUMMARY	DYNAMIC CHARTING	NOTES
AF-9																																х				GRAPHIC SCREEN FOR OAF
FAN START STOP			1																х													х				
FAN STATUS	1									х																	х			7	₹	х				
FAN SPEED				1																			Х	Х	х							х				
OUTSIDE AIR DAMPER (D-9)			1																													х				NORMALLY CLOSED, SPRING RETURN
TOTAL OA FLOW		1																														Х				
TOTAL OA FLOW SETPOINT						х		Х														Х	Х									Х				
OA FLOW		5																														х				AHUs - 1, 2, 3, 4, 5, 6
OA FLOW SETPOINT							х	х	2500 CFM																							х				AHUs - 2, 3, 4, 5, 6, 8
OA FLOW SETPOINT							Х	х	3000 CFM																							х				AHU-1
OA FLOW SETPOINT							х	х	2700 CFM																							х				AHU-7
OA FLOW					Х																					\Box			\Box			х				FROM AHU-3, AHU-7, & AHU-8
OA DAMPER POSITION				5																												х				FLOORS 1,2,4,5,6
OA DAMPER POSITION					Х																											х				FROM AHU-3 , AHU-7, & AHU-8
	1	6	2	6																																
	2	7	3	7																																

BAS OBJECT POINTS LIST (SF-5)

			PO	INTS									APPLI	CATIO	NS								ρr	PORTS	: / M	FCCA	CES		GRAPI	אור פע	CDEE	,	Í
	PHYSICA	۸L	VIF	TUAL						ALARMS	}			TRENI	DS	PF	ROGRA	MS	C	ONTRO	L LOC	P	INL.	OKIS) / W	LOOM	JLJ		GRAFI	110 30	CKEE		İ
	BINARY ANALOG BINARY		٦	CALCULATED	USER ADJUSTABLE	INITIAL OR DEFAULT VALUE	BINARY ALARM	LEVEL	LEWEL ,	HIGH LEVEL ALARM	LOW LEVEL ALARM	AUTO RESET MANUAL RESET	TREND (CHANGE OF VALUE)	IREND (SAMPLE INTERVAL)	C.O.V. or SAMPLE INTERVAL	SCHEDULING	WEEKLY TESTING	SETPOINT RESET PROGRAM	DIRECT ACTING	REVERSE ACTING PROPORTIONAL CONTROL	INTEGRAL CONTROL	E CONTROL	ALARM LOG (REPORT DAILY) REDORT (DAILY)	REPORT (WEEKLY)	REPORT (MONTHLY)	REPORT (ANNUAL)	ALARM INSTRUCTION	MAIN IENANCE MESSAGE	AIR HANDLING UNIT	TERMINAL UNIT SUMMARY	AFD DETAIL	DYNAMIC CHARTING	NOTES
-5																												×	((GRAPHIC SCREEN FOR OAF
FAN START STOP	1																											×					
FAN STATUS	1						Х																Х				х	×	(
	1 # 1	#	•	•				•	•	•		•		•					•	•	•							•	•		•	•	

SUPPLY FAN:

- a. THE SUPPLY FAN SHALL BE CONTROLLED BY A UL-864 LISTED SMOKE CONTROL PANEL. SEQUENCE OF OPERATION SHALL NOT RELY ON A COMMUNICATION INTERFACE WITH A REMOTE PANEL; ALL CONTROL LOGIC SHALL RESIDE IN CONTROL PANEL SERVING EQUIPMENT..
- 2. <u>SUPPLY FAN</u>
- a. <u>Start/Stop:</u> Start/Stop of the supply fan shall be controlled through a motor rated contactor. Enable the supply fans on signal from FIRE ALARM CONTROL PANEL, BASED ON DETECTION OF SMOKE IN THE ELEVATOR MACHINE ROOM. (THE SMOKE DETECTORS IN THE ELEVATOR MACHINE ROOM ARE CONNECTED TO THE DIGITAL ADDRESSABLE FIRE ALARM CONTROL PANEL.)
- b. <u>Status:</u> Supply fan operation shall be proved through a current switch. Upon failure, the bas shall annunciate one of the following alarms:
- 1. SUPPLY FAN FAILURE: IF THE FAN IS COMMANDED ON, BUT THE STATUS IS OFF.
- 2. SUPPLY FAN IN HAND MODE: IF THE FAN IS COMMANDED OFF, BUT THE STATUS IS ON.



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Leon County Courthouse Annex (Bank of America) Stair & Elevator

27 April 2012

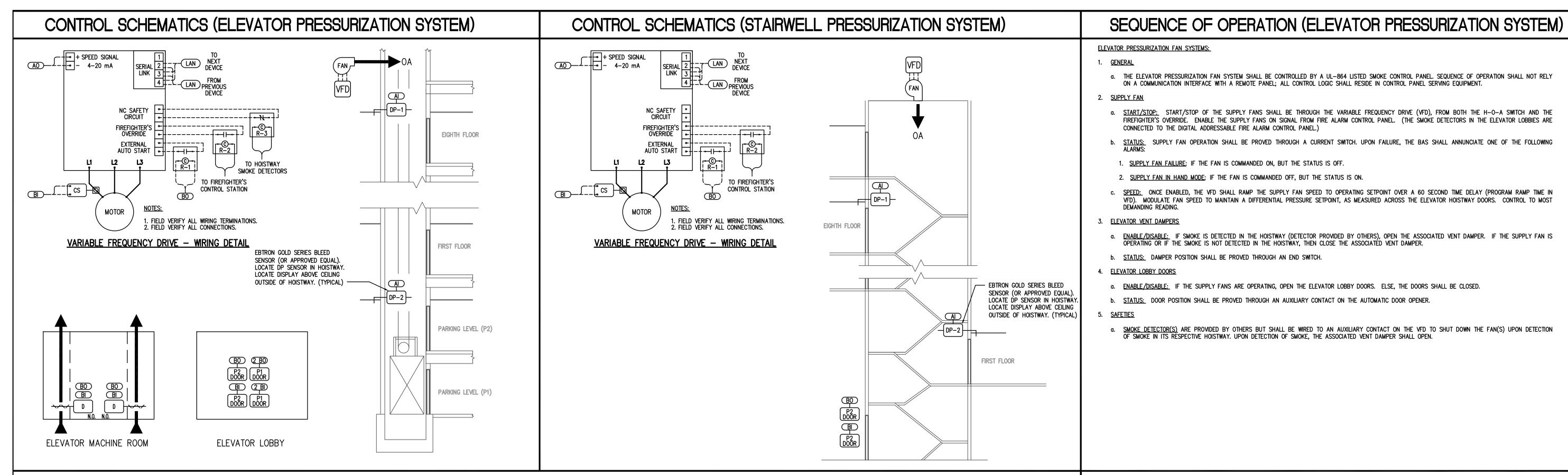
Construction Documents

CONTROLS - MECHANICAL

225 South Adams St, Tallahassee, FL 32301

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Phone 850 224-6301



BAS OBJECT POINTS LIST (ELEVATOR HOISTWAY PRESSURIZATION FANS)

				POI	NTS									PPLICA	TIONS								RI	FPORT	S/M	FSSA	GES	"	RAPHI	. SCR	PFN	
		PHYS	CAL	VIR	TUAL					ALARM	S			TR	RENDS	PR	OGRAM	IS	С	ONTRO	L LO	OP] '`'	LI OIVI	5 / W	LOOK	IOLO	"	/1\/\tau	5 501	VLLIN	
	INP	TU	OUTPU1																									PLAN				
	BINARY	ANALOG	BINARY ANALOG	INTEROPERABLE	SETPOINT	USER ADJUSTABLE	INITIAL OR DEFAULT VALUE	BINARY ALARM	HIGH LEVEL ALARM	HIGH LEVEL ALARM	LOW LEVEL ALARM	auto reset	MANUAL RESET	IREND (CHANGE OF VALUE) TREND (SAMPLE INTERVAL)	O V or SAMPLE INTERVAL	SCHEDULING	WEEKLY IESTING OPERATOR OVERRIDE	SETPOINT RESET PROGRAM	DIRECT ACTING	REVERSE ACTING	NTEGRAL CONTROL	DERIVATIVE CONTROL	ALARM LOG (REPORT DAILY)	REPORT (DAILY) REPORT (WEFKLY)	REPORT (MONTHLY)	REPORT (ANNUAL)	ALARM INSTRUCTION	≥				NOTES
-3, SF-4																												х				
FAN START STOP			2													:	x							х				Х				
FAN STATUS	2																x							x				Х				
FAN SPEED			2														x			x >	⟨ x	Х		x				Х				
DIFFERENTIAL PRESSURE		4															x							x				Х				2 PER ELEVATOR HOISTWAY; LOCATE AT LEVEL P2 AND FLOOR 8
DIFFERENTIAL PRESSURE SETPOINT					х	х	0.04" WC																					Х				
EXTERIOR DOOR OPEN			3														x							×				х				1 VESTIBULE DOOR ON LEVEL P2; 1 VESTIBULE DOOR EACH SIDE ON LEVEL P1 (2 TOTAL)
EXTERIOR DOOR POSITION FEEDBACK	3																x							×				Х				1 VESTIBULE DOOR ON LEVEL P2; 1 VESTIBULE DOOR EACH SIDE ON LEVEL P1 (2 TOTAL)
VENT DAMPER (ELEVATORS 1 & 2)	1		1														x							×								NORMALLY OPEN / SPRING RETURN
VENT DAMPER (ELEVATOR 3)	1		1														×							x								NORMALLY OPEN / SPRING RETURN
	7	4	7 2																													
	8	5	8 3	1																												

BAS OBJECT POINTS LIST (STAIRWELL PRESSURIZATION FANS)

					PC	STAIC										APPLI	CATIONS	i									DI	בטטטו	re /	MESS	٨٥٤٥	.	CD	אחווס	SCRI	C C N I	
		PHY	SICAL		VII	RTUAL	-					ALARMS	5			TF	RENDS		Pl	ROGRA	MS		CON	NTROL	LOOP	,	KI	LPUK	13 /	MESS	AGES	,	GRA	APHIC	SURI	EEN	
			BINARY		INTEROPERABLE	CALCULATED	SETPOINT	USER ADJUSTABLE	Initial or default value	Y ALAF	 LOW LEVEL ALARM	HIGH LEVEL ALARM	LOW LEVEL ALARM	AUTO RESET		TREND (SAMPLE INTERVAL)	C.O.V. or SAMPLE INTERVAL		SCHEDULING WEEKLY TESTING	SEQUENCING	OPERATOR OVERRIDE	SETPOINT RESET PROGRAM	DIRECT ACTING REVERSE ACTING	PROPORTIONAL CONTROL	INTEGRAL CONTROL	DERIVATIVE CONTROL	ALARM LOG (REPORT DAILY)	REPORT (DAILY) REPORT (WEEK! Y)	REPORT (MONTHLY)	REPORT (ANNUAL)	ALARM INSTRUCTION	MAINTENANCE MESSAGE	STAIRWELL PRESSURIZATION PLAN				NOTES
-1, SF-2																																	х				
FAN START STOP			2																x									,	۱				х				
FAN STATUS	2																		х									,	7				Х				
FAN SPEED				2															×				Х	X	х	х		,	,				Х				
DIFFERENTIAL PRESSURE		4																	×									٦,	,				х				2 PER STAIRWELL; LOCATE AT FLOORS 1 AND 8
DIFFERENTIAL PRESSURE SETPOINT							х	X O).05" WC																\Box								х				
EXTERIOR DOOR OPEN			2																×						\Box			,	,				х				ONLY FOR STAIR #2 NOW; FOR STAIR #1 IN FUTURE
EXTERIOR DOOR POSITION FEEDBACK	2					_													x								+	,	(Х				ONLY FOR STAIR #2 NOW; FOR STAIR #1 IN FUTURE
	4	4	4	2																																	

SEQUENCE OF OPERATION (STAIRWELL PRESSURIZATION FANS)

STAIRWELL PRESSURIZATION FAN SYSTEM:

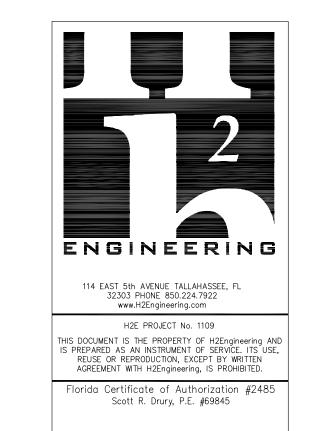
a. THE STAIRWELL PRESSURIZATION FAN SYSTEM SHALL BE CONTROLLED BY A UL-864 LISTED SMOKE CONTROL PANEL. SEQUENCE OF OPERATION SHALL NOT RELY ON A COMMUNICATION INTERFACE WITH A REMOTE PANEL; ALL CONTROL LOGIC SHALL RESIDE IN CONTROL PANEL SERVING EQUIPMENT..

2. <u>SUPPLY FAN</u>

- a. <u>START/STOP:</u> START/STOP OF THE SUPPLY FANS SHALL BE THROUGH THE VARIABLE FREQUENCY DRIVE (VFD), FROM BOTH THE H-O-A SWITCH AND THE FIREFIGHTER'S OVERRIDE. ENABLE THE SUPPLY FANS ON SIGNAL FROM FIRE ALARM CONTROL PANEL. (THE SMOKE DETECTORS IN THE CORRIDORS OUTSIDE THE STAIRWELL SHAFTS ARE CONNECTED TO THE DIGITAL ADDRESSABLE FIRE ALARM CONTROL PANEL.)
- b. <u>STATUS:</u> SUPPLY FAN OPERATION SHALL BE PROVED THROUGH A CURRENT SWITCH. UPON FAILURE, THE BAS SHALL ANNUNCIATE ONE OF THE FOLLOWING ALARMS:
- 1. SUPPLY FAN FAILURE: IF THE FAN IS COMMANDED ON, BUT THE STATUS IS OFF.
- 2. SUPPLY FAN IN HAND MODE: IF THE FAN IS COMMANDED OFF, BUT THE STATUS IS ON.
- c. <u>SPEED:</u> ONCE ENABLED, THE VFD SHALL RAMP THE SUPPLY FAN SPEED TO OPERATING SETPOINT OVER A 60 SECOND TIME DELAY (PROGRAM RAMP TIME IN VFD). MODULATE FAN SPEED TO MAINTAIN A DIFFERENTIAL PRESSURE SETPOINT, AS MEASURED ACROSS THE STAIRWELL DOORS. CONTROL TO MOST DEMANDING

3. <u>LEVEL P2 STAIRWELL DOORS</u>

- a. <u>Enable/Disable:</u> If the supply fans are operating, open the P2 level door. Else, the door shall be closed.
- b. STATUS: DOOR POSITION SHALL BE PROVED THROUGH AN AUXILIARY CONTACT ON THE AUTOMATIC DOOR OPENER.





Leon County Courthouse Annex (Bank of America) Stair & Elevator

Pressurization Dr. 12062

Troject dode

27 April 2012

Construction Documents

Revisions

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CONTROLS - MECHANICAL

Tallahassee Florida

M702