

LEON COUNTY COURTHOUSE ELEVATORS #1 AND #2 UPGRADES

301 SOUTH MONROE STREET
TALLAHASSEE, FLORIDA

by

TLC Engineering For Architecture



325 John Knox Road - Suite AT102
Tallahassee, Florida 32303
PH: 850.298.4448
Fax: 850.298.4453
www.tlc-engineers.com
EB #0000015
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LEON COUNTY COURTHOUSE
ELEVATORS #1 AND #2 UPGRADES
TALLAHASSEE, FLORIDA

OWNER

DIVISION OF REAL ESTATE DEVELOPMENT AND MANAGEMENT
4050 ESPLANADE WAY - SUITE 315
TALLAHASSEE, FL
PH: (850) 487.9923

ELECTRICAL/MECHANICAL

TLC ENGINEERING FOR ARCHITECTURE INC.
1650 PRUDENTIAL DRIVE SUITE 200
JACKSONVILLE, FL 32207
PH: (904) 306-9111

PROJECT INFORMATION

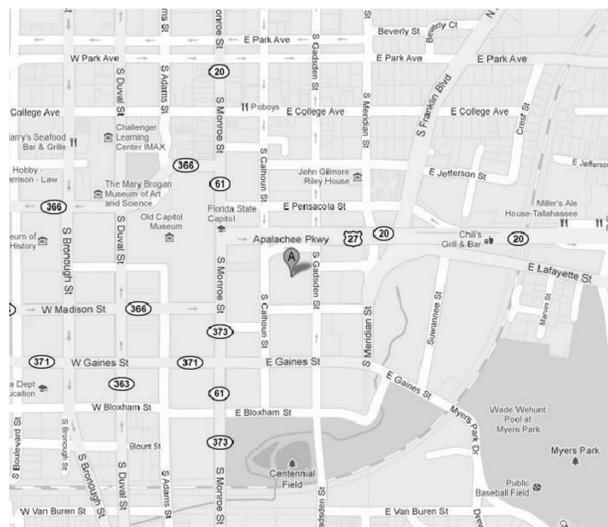
APPLICABLE CODES

- FLORIDA BUILDING CODE, BUILDING (FBC, B) - 2010 EDITION
- FLORIDA BUILDING CODE, MECHANICAL (FBC, B) - 2010 EDITION
- FLORIDA FIRE PREVENTION CODE (FFPC) - 2010 EDITION
- NFPA 101
- NATIONAL ELECTRICAL CODE (NEC) - 2008 EDITION
- NFPA 72 NATIONAL FIRE ALARM CODE - 2005 EDITION

EXISTING INFORMATION

PRINCIPAL OCCUPANCY:
BUSINESS

501 South Calhoun Street
Tallahassee, Florida



PROJECT VICINITY MAP

VERTICAL TRANSPORTATION
CONSULTANTS

DIETER CONSULTING SERVICES, INC.
20 AVENUE D, SUITE 201 P.O. BOX 806
APALACHICOLA, FLORIDA 32320
PH: (850) 653-5365

DRAWING INDEX		
SHEET NUMBER	SHEET NAME	ISSUE DATE
CO.1	COVER SHEET	03/28/2013
E0.1	LEGEND, NOTES, SCHEDULE AND SPECIFICATIONS - ELECTRICAL	03/28/2013
E1.1	PARTIAL FLOOR PLANS - ELECTRICAL	03/28/2013
E2.1	RISER DIAGRAM AND PANEL SCHEDULE - ELECTRICAL	03/28/2013
M0.1	GENERAL NOTES, LEGENDS, DETAILS AND SPECS - HVAC	03/28/2013
M1.1	FLOOR PLAN - HVAC	03/28/2013

Revisions:		
No.	Date	Description

Seal
Ryan D. Fryman, P.E.
Florida License #55472

Project No.: 813004
Issue Date: FEBRUARY 28, 2013

Drawn By: MRC
Approved By: RDF
Scale: NTS

Drawing Title:
COVER SHEET

Drawing No.:
C0.1

THIS DRAWING IS BEING RELEASED FOR THE
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Sheet: of

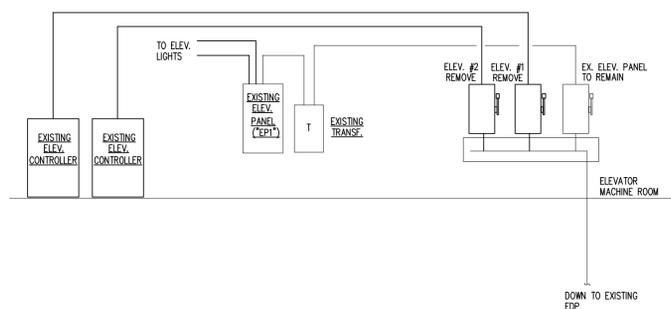


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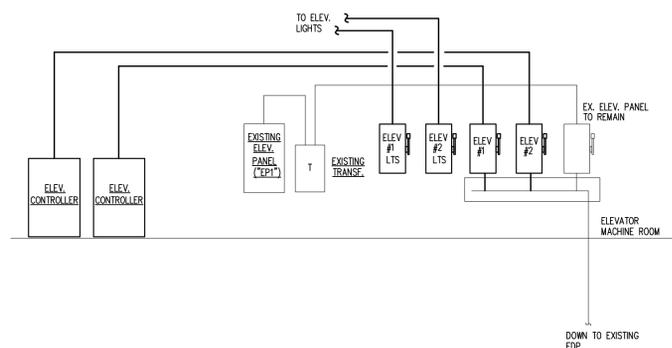
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PARTIAL RISER DIAGRAM - DEMOLITION

SCALE: NONE



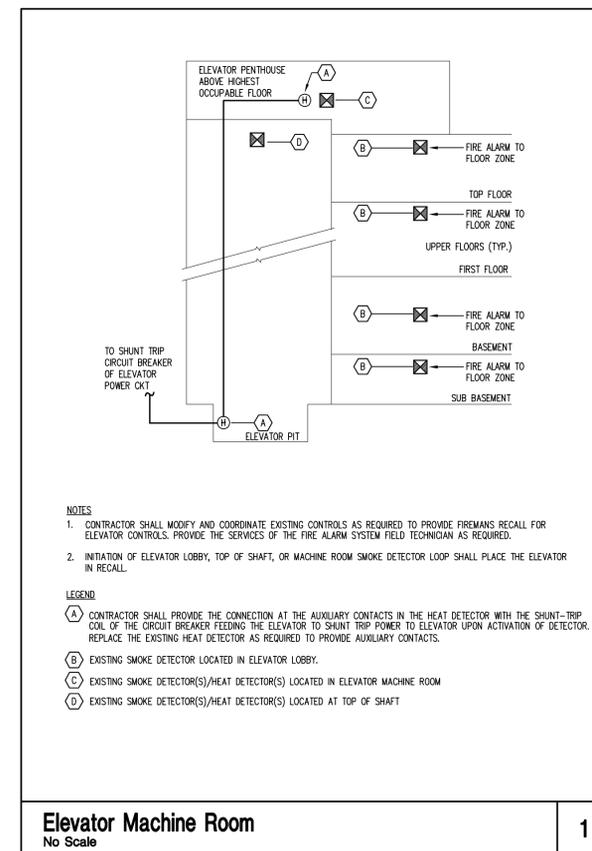
PARTIAL RISER DIAGRAM - RENOVATION

SCALE: NONE

Name: ELEV PNL (EPI)															
MAIN BREAKER: 50 AMPS 3 POLE 3 PHASE						Project Name: LEON CO. CH ELEV									
MAIN LUGS: AMPS						Project Number: 813004									
K.A.L.C.: AMPS						Fed From: EXISTING EDP									
SURFACE MTD: X						480Y/277V									
FLUSH MTD:						240/120V									
C K T N O T E S	IDENTIFICATION	C O D E	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			C O D E	IDENTIFICATION	C K T N O T E S	
			A	B	C	TRIP	POLES	TRIP	A	B	C				
1	MOTOR OPERATED DAMPERS	O	0.1			20	1	2	30	1.9			C	HP-1 (1HP)	2
3	AHU-1 (1/2HP)	H		0.4		20	2			1.9			C		4
5		H			0.4			1	20				R	REC. MACH. RM.	6
7	LTS MACH. RM.	L	0.3			20	1	1	20	1.0			L	LTS. ELEV #2	8
9	REC. MACH. RM.	R		0.2		20	1	1	20	1.0			L	LTS. ELEV #1	10
11	REC. MACH. RM.	R			0.4	20	1	1	20			0.1	O	POWER SUPPLY	12
13	MAIN					50	3							DO NOT USE	14
15														DO NOT USE	16
17														DO NOT USE	18
			0.4	0.6	0.8				2.9	2.9	0.5				

CONN. LOAD (KVA)	ADJUST. FACTOR	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	2.3	1.00	2.3
RECEPTACLES (R)	1.0	---	1.0
LARGEST MOTOR (M)	0.0	1.00	0.0
ALL OTHER MOTORS (M)	0.0	1.00	0.0
HEATING (H)	0.8	1.00	0.8
COOLING (C)	3.8	1.00	3.8
OTHER (O)	0.2	1.00	0.2
ELEVATOR (V)	0.0	1.00	0.0
SPARES (S)	0.0	1.00	0.0
DRYERS (D)	0.0	1.00	0.0
X-RAY (X)	0.0	1.00	0.0
KITCHEN (K)	0.0	1.00	0.0

TOTAL CONNECTED LOAD:	8.1 KVA
TOTAL DEMAND LOAD:	8.1 KVA
DEMAND AMPS:	22.5 AMPS



- NOTES**
- CONTRACTOR SHALL MODIFY AND COORDINATE EXISTING CONTROLS AS REQUIRED TO PROVIDE FIREMAN'S RECALL FOR ELEVATOR CONTROLS. PROVIDE THE SERVICES OF THE FIRE ALARM SYSTEM FIELD TECHNICIAN AS REQUIRED.
 - INITIATION OF ELEVATOR LOBBY, TOP OF SHAFT, OR MACHINE ROOM SMOKE DETECTOR LOOP SHALL PLACE THE ELEVATOR IN RECALL.
- LEGEND**
- (A) CONTRACTOR SHALL PROVIDE THE CONNECTION AT THE AUXILIARY CONTACTS IN THE HEAT DETECTOR WITH THE SHUNT-TRIP COIL OF THE CIRCUIT BREAKER FEEDING THE ELEVATOR TO SHUNT TRIP POWER TO ELEVATOR UPON ACTIVATION OF DETECTOR. REPLACE THE EXISTING HEAT DETECTOR AS REQUIRED TO PROVIDE AUXILIARY CONTACTS.
 - (B) EXISTING SMOKE DETECTOR LOCATED IN ELEVATOR LOBBY.
 - (C) EXISTING SMOKE DETECTOR(S)/HEAT DETECTOR(S) LOCATED IN ELEVATOR MACHINE ROOM
 - (D) EXISTING SMOKE DETECTOR(S)/HEAT DETECTOR(S) LOCATED AT TOP OF SHAFT

Elevator Machine Room
No Scale 1

Revisions:		
No.	Date	Description

Seal
Ryan D. Fryman, P.E.
Florida License #55472

Project No.: 813004
Issue Date: FEBRUARY 28, 2013
Drawn By: MRC
Approved By: RDF
Scale: NTS

Drawing Title:
RISER DIAGRAM AND
PANEL SCHEDULE -
ELECTRICAL

Drawing No.: **E2.1**

THIS DRAWING IS BEING RELEASED FOR THE
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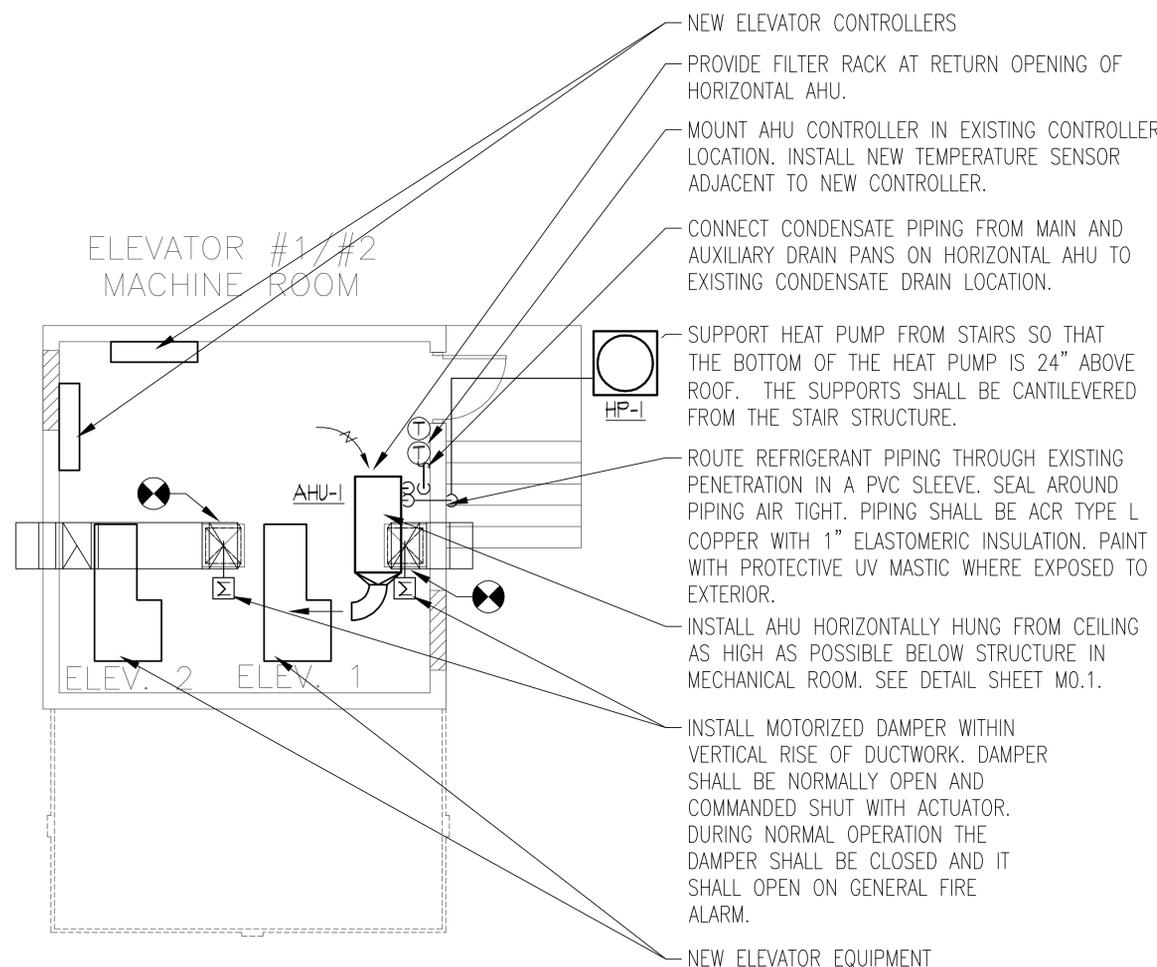
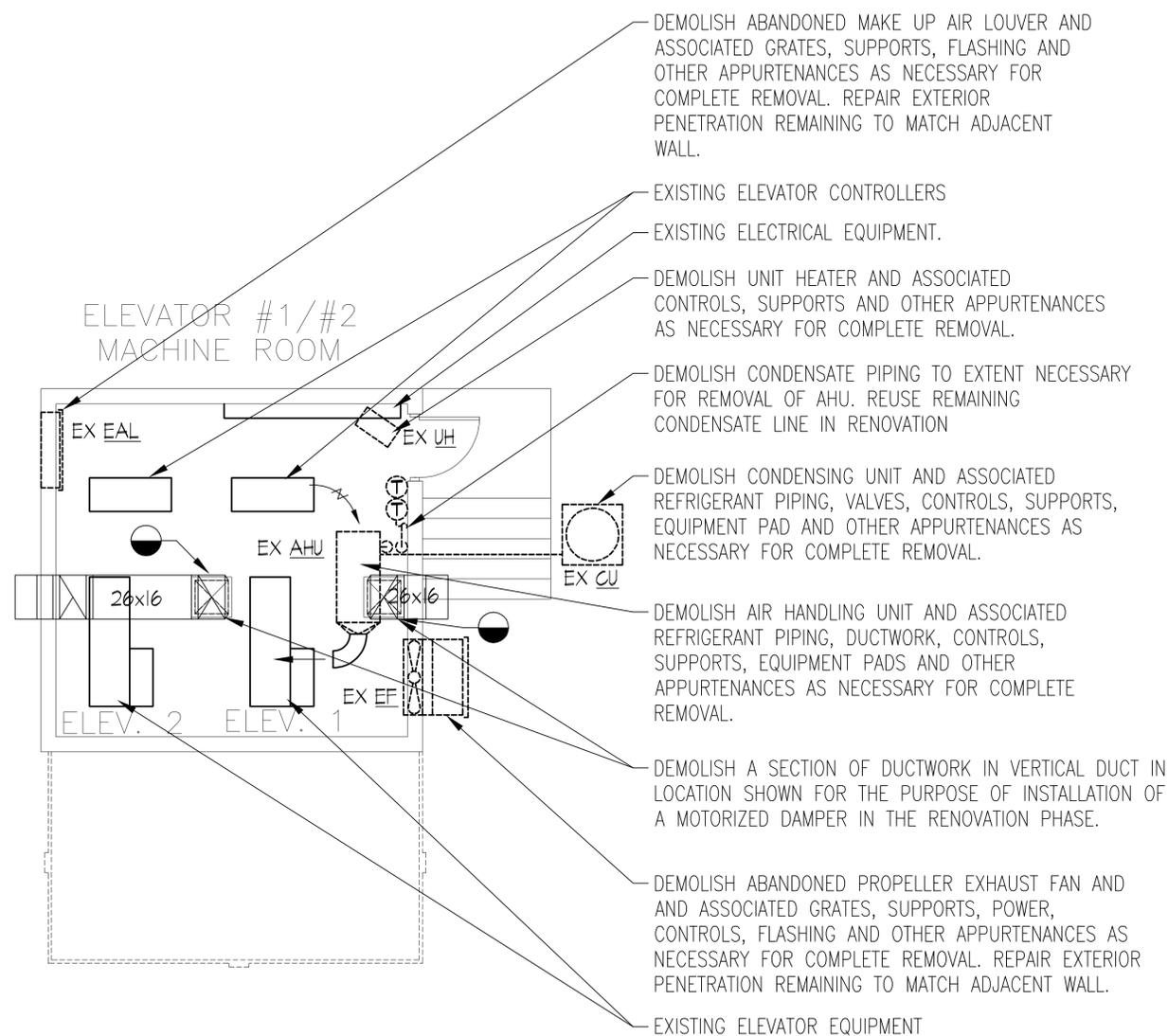
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HEAT PUMP SPLIT SYSTEM CONDENSING UNIT SCHEDULE																			
PLAN MARK	SERVING	SELECTION BASED ON		REFRIGERANT TYPE	MINIMUM EFFICIENCY (EER)	UNIT DATA		CONDENSER FAN MOTOR			COMPRESSOR DATA			UNIT ELECTRIC DATA			NOTES		
		MANUFACTURER	MODEL			CAPACITY MBH	CONDENSER EAT °F	NO.	HP (EA)	VOLT	PHASE	QUANTITY/TYPE	VOLT	PHASE	VOLT	PHASE		MCA	MOCP
HP-1	AHU-1	TRANE	TWB3036	R-410A	13.0	36	95	1	1	208	3	1/SCROLL	208	1	208	1	18	30	1,2

SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE																				
PLAN MARK	SELECTION BASED ON		FAN DATA					COOLING COIL DATA					HEATING DATA		ELECTRICAL DATA				NOTES	
	MANUFACTURER	MODEL	TOTAL CFM	MINIMUM OA CFM	MOTOR HP	EXT. SP (IN H ₂ O)	TOTAL SP (IN H ₂ O)	EAT °F		LAT °F		TOTAL CAP	SENS CAP	HEATING TYPE	HEATER CAPACITY MBH	VOLTAGE	PHASE	MCA		MOCP
								DB	WB	DB	WB									
AHU-1	TRANE	TAM7AOC36	1225	0	0.5	0.5	-	75.0	59.9	53.9	50.7	36	26.7	HEAT PUMP	34.4	208	1	4	15	1-4

REMARKS:
 1. PROVIDE WITH 2" MERV 7 FILTERS.
 2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. STARTER/CONTACTOR, RELAY AND CONTROLS TO BE PROVIDED AS REQUIRED.
 3. AHU'S SHALL HAVE REMOVABLE PANELS FOR ACCESS TO BLOWER AND COIL ASSEMBLY.
 4. HORIZONTAL ARRANGEMENT

NOTES:
 1. HEAT PUMP CONFIGURATION WITH LOW AMBIENT COOLING KIT FOR OPERATION DOWN TO 30°F
 2. SINGLE POINT ELECTRICAL CONNECTION. STARTER, RELAY AND CONTROLS TO BE PROVIDED AS REQUIRED.



Revisions:		
No.	Date	Description

Seal
 Jeffrey Joseph Stone, P.E.
 Florida License #71466

Project No.: 813004
 Issue Date: FEBRUARY 28, 2013
 Drawn By: REGII
 Approved By: JJS
 Scale: AS NOTED

Drawing Title:
 FLOOR PLAN - HVAC

Drawing No.:
M1.1

Sheet: of

ELEV. MACHINE RM. - DEMOLITION
 SCALE: 1/4" = 1'- 0"

ELEV. MACHINE RM. - RENOVATION
 SCALE: 1/4" = 1'- 0"

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