LEON COUNTY JUDICIAL COMPLEX
UPGRADE ELEVATORS No. 6 & 7
TALLAHASSEE, FLORIDA

LEON COUNTY FACILITIES
LEON COUNTY BOARD OF COMMISSIONERS
LC PROJECT NO.

MARCH 7, 2011

100% CONSTRUCTION DOCUMENTS

McGinniss & Fleming
Engineering, Inc.

Mechanical • Electrical • Fire Protection • Plumbing

INDEX OF SHEETS

COVER

M1.0 MECHANICAL - SCOPE OF WORK, GENERAL NOTES, SPECIFICATIONS, LEGEND, AND ABBREVIATIONS

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E1.0 ELECTRICAL - SYMBOL LEGEND, NOTES AND SCHEDULES

E2.0 ELECTRICAL - ELEVATOR EQUIPMENT ROOM DEMOLITION AND NEW WORK PLANS

E3.0 ELECTRICAL - P-3 LEVEL ELEVATOR PIT DEMOLITION AND NEW WORK PLANS

1012 Leon County Judicial Complex Upgrade Elevators No. 6 & 7 - 100% Construction Documents, March 7, 2011

MECHANICAL SCOPE OF WORK SUMMARY

- COORDINATE WORK WITH OTHER TRADES.
- PERFORM LIMITED DEMOLITION AND DISPOSAL OF HVAC EQUIPMENT, PIPING, AND DUCTWORK.
- PROVIDE AND INSTALL NEW ELEVATOR SHAFT VENT CONTROL DAMPERS.
- PROVIDE AND INSTALL NEW SHAFT VENT DUCTWORK TO ACCOMMODATE NEW DAMPERS.
- DEMOLISH EXISTING REFRIGERANT LINE INSULATION AND INSTALL NEW INSULATION AND JACKETING.
- PROVIDE AND INSTALL NEW SPACE TEMPERATURE SENSOR IN EQUIPMENT ROOM AND PROGRAM AS SPECIFIED.
- CONTROLS CONTRACTOR (JOHNSON) SHALL PERFORM RELATED CONTROLS WORK.
- PERFORM SYSTEMS' OPERATIONAL CHECKOUT AND MAKE CORRECTIONS.
- PERFORM PROJECT CLOSEOUT.

GENERAL NOTES:

FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO COMPLETE ALL WORK SHOWN ON THE CONTRACT DRAWINGS.

ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE CODE STANDARDS INCLUDING:
NFPA 70, NATIONAL ELECTRIC CODE (2008)
NFPA 90 A, AIR CONDITIONING & VENTILATION SYSTEMS
NFPA 101, LIFE SAFETY CODE (2006)
FLORIDA BUILDING CODE BUILDING (2007 WITH 2009 SUPPLEMENTS)
FLORIDA BUILDING CODE MECHANICAL (2007 WITH 2009 SUPPLEMENTS)
FLORIDA BUILDING CODE PLUMBING (2007 WITH 2009 SUPPLEMENTS)
FLORIDA FIRE PREVENTION CODE (2007 EDITION)
STATE AND LOCAL CODES AND ORDINANCES

SHOULD CONFLICT OCCUR BETWEEN PROJECT SPECIFICATIONS & DRAWING NOTES, THE DRAWING NOTES WILL TAKE PRECEDENCE.

THE CONTRACTOR IS EXPECTED TO PROVIDE PROFESSIONAL WORK PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND BEST PRACTICES.

THE WORK SHALL BE COMPLETE, FULLY OPERATIONAL, AND SUITABLE IN EVERY WAY FOR THE SERVICE REQUIRED.

DRAWINGS INDICATE SCOPE AND DO NOT SHOW ALL DETAILS, DEVICES AND INCIDENTAL MATERIALS NECESSARY TO ACCOMPLISH THE WORK. THEREFORE, IT SHALL BE UNDERSTOOD THAT SUCH DEVICES AND INCIDENTAL MATERIALS REQUIRED SHALL BE FURNISHED AT NO COST TO THE OWNER.

CONTRACTOR SHALL FIELD VERIFY DUCT SIZES, LAYOUT, ETC. PRIOR TO COMMENCING WORK AS THIS IS A RETROFIT PROJECT AND INFORMATION ON THESE PLANS IS BASED UPON AVAILABLE ASBUILT PLANS AND LIMITED FIELD OBSERVATIONS AND/OR ACCESS TO THE DUCTS, EQUIPMENT, ETC.

CONTRACTORS SHALL TAKE INTO ACCOUNT FIELD CONDITIONS AND COORDINATE IN ORDER TO AVOID INTERFERENCE BETWEEN TRADES.

EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR PROPER MAINTENANCE & SERVICING CLEARANCES. IF CHANGES TO THE CONTRACT DOCUMENTS ARE NECESSARY TO AVOID CONFLICTS, THE CONTRACTOR IS RESPONSIBLE FOR REQUESTING CLARIFICATION IN A TIMELY FASHION.

CONTRACTOR IS RESPONSIBLE FOR VERIFYING COMPATIBILITY OF EQUIPMENT, INCLUDING AVAILABLE OPTIONS, WITH SPECIFIED SYSTEMS PRIOR TO PROCUREMENT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEFICIENCIES ASSOCIATED WITH WORK PERFORMED BEFORE OBTAINING WRITTEN CLARIFICATION.

THE CONTRACTOR SHALL TAKE DUE CARE DURING ALL PHASES OF WORK TO PROTECT BUILDING FINISHES, FURNISHINGS, EQUIPMENT, ETC. THE CONTRACTOR SHALL BEAR ALL COSTS TO REPAIR ANY DAMAGED ITEMS, FINISHES, ETC. RESULTING FROM HIS OR HIS SUBCONTRACTORS' WORK.

THE CONTRACTOR SHALL COORDINATE THE DISPOSITION OF DEMOLISHED ITEMS WITH THE OWNER IN ADVANCE.

THE CONTRACTOR SHALL BEAR ALL DISPOSAL AND/OR RECYCLING COSTS OF DEMOLISHED AND CONSTRUCTION/DEBRIS ITEMS AND MATERIALS.

THE CONTRACTOR SHALL PROVIDE DAILY CLEANUP OF HIS WORK AFFECTED AREAS. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL THOROUGHLY CLEAN SPACES THAT WERE OCCUPIED BY TEMPORARY WORK AND TEMPORARY FACILITIES. REMOVE ALL DEBRIS, RUBBISH, AND EXCESS MATERIAL FROM THE SITES.

REPAIR DAMAGES CAUSED BY INSTALLATION OR USE OF TEMPORARY FACILITIES. THIS INCLUDES HARDSCAPING, LANDSCAPING, FINISHES, ETC.

THE CONTRACTOR SHALL DELIVER TO THE OWNER, UPON SUBSTANTIAL COMPLETION OF THE WORK, TWO COPIES OF DESCRIPTIVE LITERATURE RELATED TO THE EQUIPMENT INSTALLED UNDER THIS CONTRACT, INCLUDING PARTS LISTS, WIRING DIAGRAMS, MAINTENANCE AND OPERATION MANUALS AND WARRANTIES CUSTOMARILY SUPPLIED BY MANUFACTURERS FOR EQUIPMENT INCORPORATED IN THIS WORK.

THE LITERATURE SHALL BE NEATLY BOUND IN A 3-RING BINDER AND DELIVERED PRIOR TO FINAL ACCEPTANCE

THE CONTRACTOR SHALL LABEL NEW AND EXISTING EQUIPMENT INCLUDED IN THE SCOPE OF THIS PROJECT.

THE CONTRACTOR SHALL GIVE PHYSICAL DEMONSTRATION AND VERBAL INSTRUCTIONS FOR PROPER OPERATION AND MAINTENANCE OF EQUIPMENT TO THE OWNER OR HIS DESIGNATED REPRESENTATIVE. SCHEDULE THESE DEMONSTRATIONS AND INSTRUCTIONS AT THE OWNER'S CONVENIENCE.

MISCELLANEOUS SPECIFICATIONS:

DUCTWORK:

- ALL WORK SHALL COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
- USE GALVANIZED SHEET METAL FOR RECTANGULAR/ROUND. SEAL ALL DUCT SEAMS (TRANSVERSE AND LONGITUDINAL) JOINTS, ETC. WITH MASTIC. SEAL ALL REPAIRS, CAPS, LEAKS, ETC. WITH MASTIC.

DAMPERS AND OPERATORS:

- STEEL OPPOSED BLADE DAMPERS/FRAMES WITH NEOPRENE BLADE EDGE SEALS EQUAL TO RUSKIN CD 35 (SQUARE/RECTANGULAR) OR APPROVED EQUAL.
- ELECTRIC DAMPER OPERATORS SHALL BE 120V, NORMALLY OPEN, SPRING-RETURN TYPE, WITH INTEGRAL POSITION OUTPUT, TORQUE OUTPUT AS REQUIRED BY DAMPER SIZE, EQUAL TO BELIMO.

INSULATION:

REFRIGERANT LINES SHALL BE INSULATED WITH 3/4" THICK CLOSED CELL NEOPRENE AND COVERED WITH A 13-PLY ALUMINUM SELF-ADHESIVE CLADDING EQUAL TO VENTURE TAPE 1579CW.

CONTROLS SCOPE OF WORK:

ELEVATOR EQUIPMENT ROOM:

- PROVIDE EQUIPMENT ROOM GRAPHIC TO DEPICT ROOM TEMPERATURE SENSOR/ALARM AND NEW CONTROL DAMPERS' POSITION.

NEW SPACE TEMPERATURE SENSOR:

- PROVIDE AND PROGRAM TO ALARM THE OPERATOR WHEN THE SPACE TEMPERATURE IS 5°F (ADJ) ABOVE FCU-1 SETPOINT.

ELEVATOR SHAFT VENT DAMPER:

- NEW ELECTRIC OPERATED DAMPER IN EACH VENT SHAFT SHALL OPEN VIA FIRE ALARM ACTIVATION/SIGNAL. GRAPHIC SHALL DEPICT DAMPER POSITION VIA OPERATOR OUTPUT.

HVAC SYMBOLS/LEGEND

DESIGNATION	DESCRIPTION
12x12	RECTANGULAR DUCTWORK & SIZE
	POINT OF CONNECTION TO EXISTING
T	THERMOSTAT/TEMPERATURE SENSOR & WIREWAY
M	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT
E	ELECTRIC OPERATED DAMPER
	AIR FLOW DIRECTION
OR	DUCT TURNING DOWN
OR	DUCT TURNING UP
	TO BE DEMOLISHED

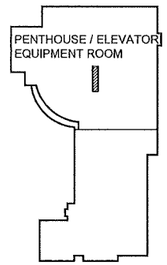
PIPING SYMBOLS

DESIGNATION	DESCRIPTION
	PIPE TURNING DOWN
	PIPE TURNING UP
	TEE UP
	DROP & RUN
	TEE OFF TOP
	TEE OFF BOTTOM
R	REFRIGERANT
C	CONDENSATE PIPING

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
AHAP	AS HIGH AS POSSIBLE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSE POWER
BTUH	BRITISH THERMAL UNIT HOUR
C	CONDENSATE
CLG	CEILING
COND	CONDENSATE
CU	CONDENSING UNIT
DB	DRY BULB
DIA OR Ø	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EMER	EMERGENCY
EL	ELEVATION
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EX OR (E)	EXISTING
EXT	EXTERNAL
FCU	FAN COIL UNIT
FF	FINISH FLOOR
FT LB	FOOT POUND
FPM	FEET PER MINUTE
HDG	HOT-DIP GALVANIZED
MAX	MAXIMUM
MIN	MINIMUM
N OR (N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
RA	RETURN AIR
SA	SUPPLY AIR
SEC	SECONDARY
SP	STATIC PRESSURE
SQ	SQUARE
T	TEMPERATURE
TYP	TYPICAL
UOS	UNLESS OTHERWISE SPECIFIED

NOTES



KEY PLAN
NO SCALE

McGinniss & Fleming
Engineering, Inc.
Mechanical · Electrical · Fire Protection · Plumbing
1401 Micceyukee Road
Tallahassee, Florida 32303-5171 EB #03990

LEON COUNTY JUDICIAL COMPLEX
UPGRADE ELEVATORS No. 6 & 7

LEON COUNTY FACILITIES
Tallahassee, Florida

DATE:
March 7, 2011

REVISED:
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DESIGNED BY:	DRAWN BY:
GHM	TEB

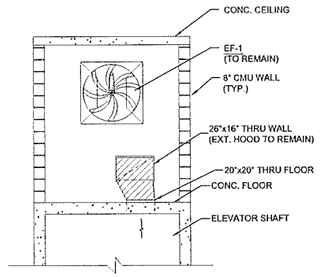
SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
MECHANICAL - SCOPE OF WORK
GENERAL NOTES, SPECIFICATIONS,
LEGEND AND ABBREVIATIONS

SHEET:
M1.0

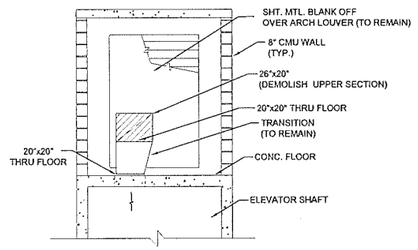
Peter J. McGinniss, PE #37318

JOB NUMBER:
1012



SECTION 1/M1.0 (DEMO)

1/4"=1'-0"



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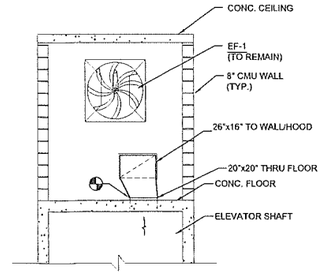
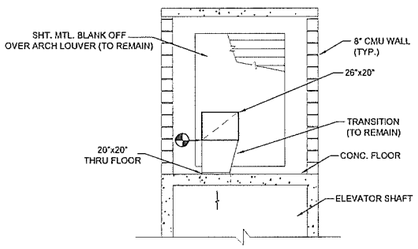


SECTION 3/M1.0 (NEW)

1/4"=1'-0"



SECTION 4/M1.0 (NEW)

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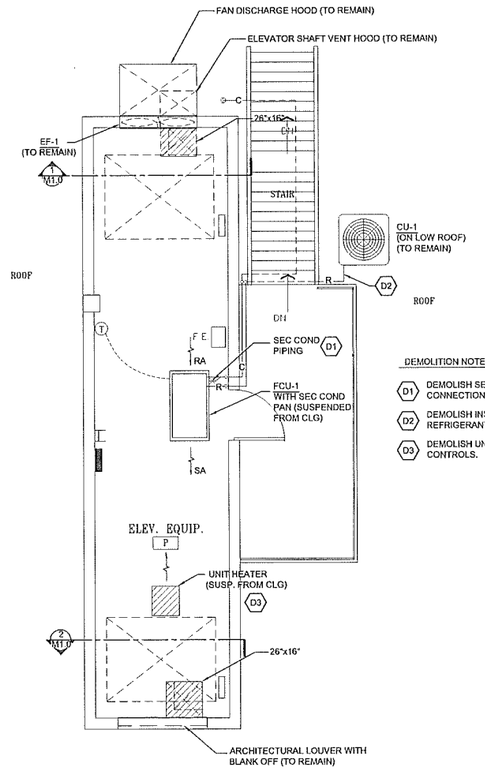
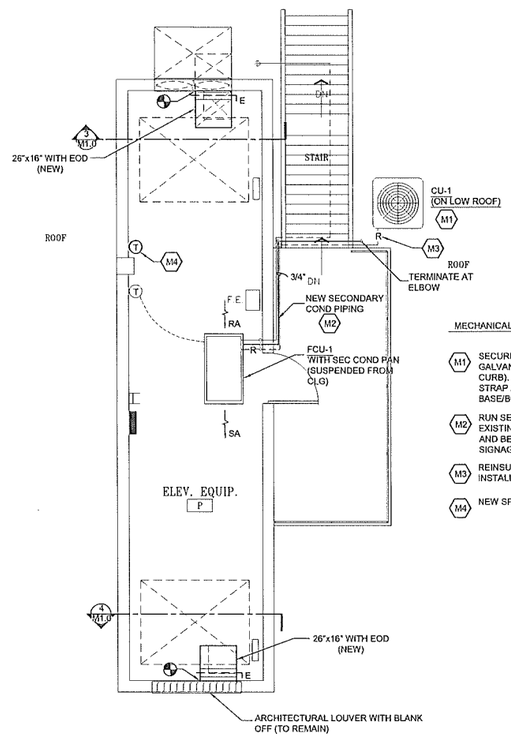


DEMOLITION NOTES

- D1 DEMOLISH SECONDARY CONDENSATE PIPING CONNECTION TO PRIMARY CONDENSATE PIPING.
- D2 DEMOLISH INSULATION ON ALL EXTERIOR REFRIGERANT PIPING.
- D3 DEMOLISH UNIT HEATER, SUPPORTS, AND RELATED CONTROLS.

ELEVATOR EQUIP. RM - HVAC DEMOLITION PLAN

1/4"=1'-0"



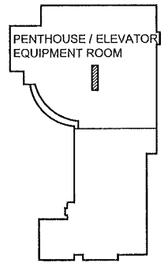
MECHANICAL NOTES

- M1 SECURE CONDENSING UNIT TO WOOD CURB WITH 16 GA.X 2" WIDE GALVANIZED STEEL STRAP - ONE ON EACH SIDE (FULL LENGTH OF CURB). USE 2 EACH 1/4" DIA 1-1/2" LONG LAG BOLTS INTO EACH CURB STRAP AND 2 EA 3/16" DIA SELF DRILLING SCREWS INTO BASE/BOTTOM OF UNIT.
- M2 RUN SEPARATE SECONDARY CONDENSATE PIPING PARALLEL TO EXISTING USING D-W-V OR TYPE "L" COPPER. RACK PIPING TO WALL AND BELOW STAIRWAY AND TERMINATE WHERE SHOWN. ADD SIGNAGE TO IDENTIFY AS SECONDARY CONDENSATE DISCHARGE.
- M3 REINSULATE ALL EXTERIOR REFRIGERANT SUCTION PIPING AND INSTALL JACKET AS SPECIFIED.
- M4 NEW SPACE TEMPERATURE SENSOR. MOUNT AT 48-54" AFF.

ELEVATOR EQUIP. RM - HVAC NEW WORK PLAN

1/4"=1'-0"

NOTES



KEY PLAN
NO SCALE

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SUBMITTAL:
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SHEET TITLE:
MECHANICAL
ELEVATOR EQUIPMENT ROOM
DEMOLITION AND NEW WORK
PLANS AND SECTIONS

SHEET:

M2.0

JOB NUMBER:
1012

Peter J. McGinniss, PE #37318

PANELBOARD SCHEDULE

LOAD / REMARKS	CIR. NO.	BREAKERS AMPS	BREAKERS POLES	H.P. OR K.W.	AMPS PER PHASE LIGHTING ØA	LIGHTING ØB	LIGHTING ØC	GEN. RECEPT. ØA	GEN. RECEPT. ØB	GEN. RECEPT. ØC	SPECIAL ØA	SPECIAL ØB	SPECIAL ØC	H.P. OR K.W.	BREAKERS AMPS	BREAKERS POLES	CIR. NO.	LOAD / REMARKS
SPACE	1	-	1	-	-			-			-			-	-	1	2	SPACE
SPACE	3	-	1	-		-			-			-		-	-	1	4	SPACE
DAMPER OPERATORS	5	20	1	-	-			-			-			-	20	1	6	SPARE
39345 CAB	7	20	1	-	3.0			-			-			-	20	1	8	39346 CAB
FAN CONTROL	9	20	1	-	3.0			-			-			-	20	1	10	LIGHTING
SPARE	11	20	1	-		3.0		-			-			-	20	1	12	RECEPTACLES
MAIN	13	30	3	-	-			-			6.0			-	20	1	14	
-	15			-		-		-				-		-	20	1	16	-
-	17			-			-	-			-			-	-	-	18	-
-	19	-	-	-	-				-		-			-	-	-	20	-
-	21	-	-	-		-		-				-		-	-	-	22	-
-	23	-	-	-	-				-		-			-	-	-	24	-
-	25	-	-	-		-		-				-		-	-	-	26	-
-	27	-	-	-	-				-		-			-	-	-	28	-
-	29	-	-	-		-		-				-		-	-	-	30	-
-	31	-	-	-	-				-		-			-	-	-	32	-
-	33	-	-	-		-		-				-		-	-	-	34	-
-	35	-	-	-	-				-		-			-	-	-	36	-
-	37	-	-	-		-		-				-		-	-	-	38	-
-	39	-	-	-	-				-		-			-	-	-	40	-
-	41	-	-	-		-		-				-		-	-	-	42	-
TOTAL CONNECTED LOAD (AMPS)					6.0	3.0	-	-	-	6.0	-	-	-	TOTAL CONNECTED LOAD (AMPS)				

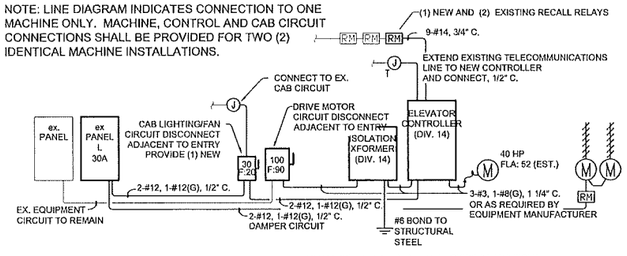
L.C. COURTHOUSE
Tallahassee, Florida

Panel PANEL L
Location PENTHOUSE
Service 3 Phase 4 Wire
■ 208Y/120V
☐ 480Y/277V
Main Bkr. - A - P
Lugs Only 100 A
10,000 AIC Min. at 240 Volts
60 Hz.

■ Surface mounted panel
☐ Flush mounted panel
☐ 200% Neutral Bar

Remarks
EXISTING PANEL
RECONFIGURE AS INDICATED

NOTE: LINE DIAGRAM INDICATES CONNECTION TO ONE MACHINE ONLY. MACHINE, CONTROL AND CAB CIRCUIT CONNECTIONS SHALL BE PROVIDED FOR TWO (2) IDENTICAL MACHINE INSTALLATIONS.



CAB CIRCUITS ARE EXISTING. PROVIDE (1) ADDITIONAL DISCONNECT TO ISOLATE EACH CAB CAR INDEPENDENTLY. EXTEND EXISTING CIRCUITS TO NEW CONTROLLERS. NAMEPLATE EACH DISCONNECT AS TO CIRCUIT ORIGIN.

DIAGRAM NOTES

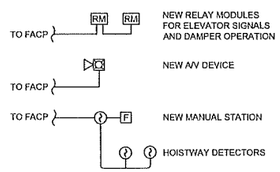
COORDINATE AND SCHEDULE ALL ELECTRICAL WORK WITH ELEVATOR EQUIPMENT SUPPLIER. THESE DRAWINGS GIVE AN INDICATION OF THE WORK EXPECTED, BUT DO NOT SHOW OR EXPLAIN IN DETAIL CERTAIN REQUIREMENTS PARTICULAR TO THE EQUIPMENT TO BE ACTUALLY FURNISHED.

WIRE SIZES, OVERCURRENT DEVICES, ETC. SHALL BE SUITABLE FOR EQUIPMENT INSTALLED. MOTOR CIRCUIT AMPACITY SHALL BE AS SHOWN, BUT NOT LESS THAN 125% OF THE RATED INPUT TO THE CONTROLLER FURNISHED.

PROVIDE FEEDERS AND BRANCH CIRCUITS OF CONSISTENT AND CONTINUOUS CONDUCTOR SIZE UNLESS SPECIFICALLY INDICATED OTHERWISE. EXISTING MOTOR FEEDER CONDUITS CAN BE REUSED AT THE CONTRACTOR'S DISCRETION AFTER REMOVING OLD CONDUCTORS.

LINE DIAGRAM

NO SCALE



FIRE ALARM ONE-LINE DIAGRAM

NO SCALE

LIGHTING FIXTURE SCHEDULE

FIXTURE MARK	MOUNTING	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	LAMPS LUMENS	DESCRIPTION
FS4	SURFACE	4	32	FO32T8 4100°K	2950	4' FLUORESCENT TURRET INDUSTRIAL CHANNEL, 20GA STEEL HOUSING WITH BAKED WHITE ENAMEL FINISH. FACTORY WIRE GUARD TO PROTECT LAMPS. ELECTRONIC BALLAST, 120 VOLT. GUIDE: WILLIAMS 82 SERIES
VT26	WALL	1	26	CF26DTT 4100°K	1800	COMPACT FLUORESCENT VAPORTIGHT FIXTURE WITH GLASS REINFORCED WALL PLATE AND GUARD. HIGH-IMPACT PLASTIC SOCKET. CLEAR ACRYLIC GLOBE. 120 VOLT. GUIDE: PHOENIX VP0027110

1. ALL FLUORESCENT FIXTURES, INCLUDING COMPACT FLUORESCENT TYPES, ARE TO BE PROVIDED WITH ELECTRONIC BALLASTS UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. ALL FLUORESCENT CHANNEL FIXTURES SHALL BE INSTALLED WITH MANUFACTURER'S STANDARD WIRE GUARD.
3. LOCATE FIXTURES IN EQUIPMENT ROOM AND EACH HOISTWAY PIT TO AVOID EQUIPMENT AND PROVIDE EFFICIENT LIGHTING DISTRIBUTION.

FIRE ALARM NOTES

1. PROVIDE COMPLETE WIRING IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. COLOR CODE WIRING AND INSTALL PER MANUFACTURER'S WIRING DIAGRAMS. INSTALLATION SHALL BE SUPERVISED BY A DULY LICENSED CERTIFIED CONTRACTOR AND INSTALLED BY PERSONNEL SKILLED IN THE TRADE.
2. WIRING SHALL CONFORM TO NFPA 72 AND 90A (AS APPLICABLE) AND ARTICLE 760 OF THE NEC. WIRING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AS NECESSARY TO PERFORM THE REQUIRED FUNCTION.
3. ALL WIRING SHALL BE IN STEEL CONDUIT OR TUBING. SURFACE MOUNTED RACEWAYS SHALL BE PERMITTED.
4. UNLESS STATED OTHERWISE, MOUNTING HEIGHTS ARE TO BOTTOM OF DEVICE. ROUGH-IN OUTLET BOXES AT HEIGHT APPROPRIATE FOR DEVICE TO BE INSTALLED. MOUNTING HEIGHTS SHALL BE AS INDICATED AND IN ACCORDANCE WITH NFPA 72 (2006) AND FBC.
5. IN JUNCTION BOXES, OUTLET BOXES, DEVICES, ETC., WIRING SHALL TERMINATE ON IDENTIFIED TERMINAL STRIPS. WIRE NUTS OR OTHER SIMILAR SPLICING DEVICES SHALL NOT BE ACCEPTABLE IN ANY PART OF THE SYSTEM.
6. EACH JUNCTION BOX AND TERMINAL CABINET WILL BE PAINTED RED WITH "FIRE" STENCILED IN WHITE LETTERS ON THE COVER.
7. SUPERVISED AUXILIARY RELAYS (RATED FOR 120 VAC AT 3 AMPS RESISTIVE) SHALL BE PROVIDED TO CLOSE DAMPERS.
8. DO NOT PASS ADDITIONAL WIRES (USED FOR OTHER THAN SIGNALING DEVICES) THROUGH DEVICE BACK-BOXES. ALL SIGNALING DEVICES SHALL BE INSTALLED WITH DEDICATED CONDUIT DROPS FROM MAIN SYSTEM RACEWAYS TO DEVICE BACK-BOXES.
9. THE COMPLETED SYSTEM SHALL BE INSPECTED AND TESTED IN THE PRESENCE OF THE ENGINEER.
10. THE COMPLETED SYSTEM SHALL BE FULLY TESTED AND RE-CERTIFIED AT THE COMPLETION OF THE PROJECT.
11. IF SYSTEM SHUTDOWN IS REQUIRED, IT SHALL BE LESS THAN 4 HOURS IN ANY GIVEN 24 HOUR PERIOD. IF THIS IS IMPOSSIBLE, THE LOCAL FIRE DEPARTMENT SHALL BE NOTIFIED AND AN APPROVED FIRE WATCH INITIATED IN ACCORDANCE WITH NFPA 101, SECTION 7-6.1.8.
12. ELEVATOR EQUIPMENT ROOM SMOKE DETECTORS SHALL CAUSE THE AIR HANDLER TO SHUT DOWN, CAUSE THE "ELEVATOR DO NOT USE" WARNING LIGHT TO FLASH AND SOUND A GENERAL FIRE ALARM. ALL DETECTORS FOR RECALL SERVICE SHALL CAUSE THE HOISTWAY VENT DAMPERS TO CLOSE. PROVIDE THE ADDITIONAL RELAY(S) TO ACCOMPLISH.
13. ALL NEW FIRE ALARM WORK SHALL REQUIRE A SEPARATE PERMIT. THE CONTRACTOR SHALL SUBMIT PLANS FOR EVALUATION PRIOR TO INSTALLATION OF NEW WORK.

DEMOLITION NOTES - GENERAL

1. ALL ITEMS SHOWN ON DEMOLITION PLANS ARE TO BE REMOVED UNLESS NOTED OTHERWISE. THIS SHALL INCLUDE BUT NOT BE LIMITED TO CONDUIT AND RACEWAYS (BOTH SURFACE MOUNTED AND CONCEALED ACCESSIBLE), WIRE, DEVICES AND CONDUIT SUPPORTS, BACK TO SERVING PANEL. ALL LINE VOLTAGE WIRING SHALL BE DISCONNECTED AND REMOVED BY A QUALIFIED ELECTRICIAN.
2. ALL REMOVED ELECTRICAL EQUIPMENT, INCLUDING DISCONNECTS, MOTORS, ETC., SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER AT A LOCATION DESIGNATED BY THE CONTRACTING SUPERVISOR. ELECTRICAL CONDUIT, WIRE, DEVICES, AND ALL OTHER MATERIALS SHALL BE DISPOSED OF OFFSITE BY THE CONTRACTOR AT NO ADDITIONAL COST.
3. WHERE EXISTING CIRCUITS ARE REWORKED BY THE ADDITION OR REMOVAL OF CONDUCTORS, THE OLD WIRE SHALL BE REMOVED, THE CONDUIT SWABBED OUT, AND NEW THWN WIRES REPULLED UNLESS INDICATED OTHERWISE.
4. IF ANY EXISTING ELECTRICAL EQUIPMENT THAT IS TO REMAIN BECOMES ISOLATED BY THE REMOVAL OF OTHER EQUIPMENT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REROUTE AND RECONNECT THE EQUIPMENT SO THAT THE SYSTEM REMAINS OPERABLE. ANY REQUIRED WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
5. RELOCATE EXISTING ELECTRICAL EQUIPMENT AS REQUIRED TO AVOID NEW CONSTRUCTION. ALL WORK REQUIRED SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS. ENGINEER SHALL BE NOTIFIED BEFORE PERFORMING WORK.
6. WHILE REMOVING ALL ELECTRICAL ITEMS INSIDE THE INDICATED ALTERATION AREA, RECONNECT CIRCUITS TO MAINTAIN INTEGRITY OF EXISTING CIRCUITS AND CONTINUED OPERATION OF LIGHTING, EQUIPMENT AND DEVICES TO REMAIN.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING OR PATCHING OF WALLS AND CEILINGS REQUIRED. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY SKILLED CRAFTSMEN. RETURN ALL WALLS AND THEIR FINISHES TO ORIGINAL CONDITION.
8. ABANDONED CONDUIT SHALL BE REMOVED WHERE POSSIBLE. ABANDONED CONDUIT IN SLAB OR CONCRETE WALLS WHICH CANNOT BE REMOVED SHALL HAVE WIRES PULLED FROM THEM. CUT OFF CONDUIT FLUSH WITH CONCRETE. PATCH OPENINGS AND PENETRATIONS SUITABLE FOR NEW FINISH. EXISTING CONDUITS WHICH PENETRATE EXTERIOR WALLS SHALL BE REMOVED AND EXTERIOR WALL PATCHED.

SYMBOL LEGEND

AFF	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTERLINE
EC	EMPTY CONDUIT (3/4" MINIMUM) WITH NYLON PULLWIRE
WP	WATERPROOF - NEMA 3R
S	WALL MOUNTED TOGGLE SWITCH, 20A, 120/277V AC ONLY, SINGLE POLE
S_M	MOTOR SWITCH WITH THERMAL PROTECTION - SNAP SWITCH
	PANELBOARD - SURFACE MOUNTED, EXISTING
	DISCONNECT SWITCH, NON-FUSIBLE, SIZE AND TYPE AS NOTED.
60	DISCONNECT SWITCH, FUSIBLE, SIZE, TYPE AND FUSED AS NOTED, FUSE PER MANUFACTURER'S RECOMMENDATION.
J_T	JUNCTION BOX ON CEILING, SUBSCRIPT "T" INDICATES TELEPHONE
	ARROW INDICATES CIRCUIT HOMERUNS IN CONDUIT
LPA-2,4	INDICATES HOMERUN TO CIRCUIT NUMBERS 2 & 4 IN PANEL "LPA"
	CIRCUITS SHOWN INDICATES 1 #12 PHASE CONDUCTOR, 1 #12 NEUTRAL AND 1 #12 GND IN 1/2" C.
	SHORTER TICKMARKS INDICATE PHASE CONDUCTORS, OR SWITCH LEGS
	LONGER TICKMARKS INDICATE GROUNDED CONDUCTOR(S) (NEUTRAL). 2-#12, 1-#12 GROUND SHALL BE RUN IN 1/2" CONDUIT. 4 OR MORE #12 CONDUCTORS SHALL BE RUN IN 3/4" C. OR AS REQUIRED BY NEC. LARGER THAN #12 CONDUCTORS SHALL BE RUN IN CONDUIT SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
	CONDUIT ROUTED DOWN
	CONDUIT ROUTED UP
	FLEXIBLE CONNECTION TO EQUIPMENT
FS1	SURFACE MOUNTED FIXTURE, SHOWN FIXTURE MARK "FS1"
	LIGHTING FIXTURE - MOUNTING AND TYPE AS INDICATED
EM	SELF-CONTAINED EMERGENCY LIGHTING - TWO 9 WATT HEADS
	DUPLEX RECEPTACLE, 20A, MOUNT 42" AFF, NEMA 5-20R.
GFI	DUPLEX RECEPTACLE, 20A, WITH GROUND FAULT INTERRUPTER
M	MOTOR OR MOTOR CONNECTION
T	120:24VAC TRANSFORMER, 25VA
	FIRE ALARM HORN, FLASHING LIGHT ASSEMBLY (EXISTING)
	FIRE ALARM SYSTEM SMOKE DETECTOR
RM	FIRE ALARM SYSTEM RELAY FOR ELEVATOR CAPTURE
—T—	TELEPHONE WIRING IN CONDUIT
—F—	FIRE ALARM WIRING IN CONDUIT

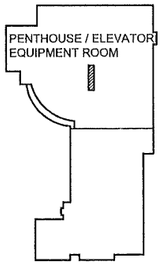
GENERAL NOTES

1. FLEXIBLE CONDUIT SHALL BE LIQUID-TIGHT FLEX WITH SUITABLE FITTINGS.
2. VERIFY EXACT LOCATIONS OF ALL EQUIPMENT BEFORE BEGINNING INSTALLATION
3. PROVIDE CONDUIT EXPANSION FITTINGS WITH BONDING JUMPERS FOR ALL CONDUITS PASSING THROUGH EXPANSION JOINTS.
4. ALL CEILING MOUNTED AND WALL MOUNTED EQUIPMENT OR DEVICES SHALL BE LOCATED TO AVOID DOOR SWINGS WHERE REQUIRED.
5. CONDUIT SHALL PASS THROUGH WALLS AT 90 DEGREES AND SHALL BE RUN PARALLEL AND PERPENDICULAR TO WALLS.
6. BRANCH CIRCUITS AND HOMERUNS SHALL BE #12 WIRE AND 1/2" CONDUIT MINIMUM. EVERY CONDUIT SHALL HAVE A GREEN GROUND WIRE SIZED IN ACCORDANCE WITH TABLE 250-95.
7. NO MORE THAN 3 PHASE CONDUCTORS SHALL BE INSTALLED IN ONE CONDUIT UNLESS NOTED OTHERWISE.
8. MAINTAIN NEC MINIMUM CLEARANCE IN FRONT OF ALL SAFETY SWITCHES AND PANELBOARDS.
9. PRIOR TO ANY ROUGH-IN CONTRACTOR TO PROVIDE SCALED DRAWINGS (WITH ACTUAL DIMENSIONS OF APPROVED EQUIPMENT) SHOWING LOCATIONS AND PROPER CLEARANCES OF ALL ELECTRICAL PANELS, TRANSFORMERS, EQUIPMENT CABINETS, ETC. FOR APPROVAL.
10. NO CONDUIT SHALL PASS THROUGH ELEVATOR HOISTWAY OR ELEVATOR MACHINE ROOM UNLESS IT SPECIFICALLY SERVES ELEVATOR EQUIPMENT.
11. ALL WIRING, INCLUDING FIRE ALARM, COMMUNICATIONS, AND CONTROL SHALL BE INSTALLED IN ELECTRICAL METAL TUBING OR CONDUIT.
12. ALL FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 72 REQUIREMENTS.
13. ALL ITEMS ON PLANS ARE NEW UNLESS NOTED OTHERWISE.
14. EXISTING PANELS TO REMAIN SHALL HAVE THEIR PANEL SCHEDULES UPDATED AND RETYPED AFTER COMPLETION OF NEW WORK.
15. ALL RATED WALL PENETRATIONS SHALL BE SEALED TO MAINTAIN THE RATING OF THE WALL WITH LISTED MATERIALS.

SCOPE OF WORK

1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO COMPLETE ALL ELECTRICAL WORK AS SHOWN ON THE CONTRACT DRAWINGS.
2. DIVISION 16 WORK SHALL INCLUDE THE INSTALLATION OF A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM. THIS SYSTEM REQUIRED CONSISTS BASICALLY OF, AND IS NOT LIMITED TO, THE FOLLOWING:
   - EXTEND THE DISTRIBUTION SYSTEM FOR LIGHTING AND POWER INCLUDING THE NECESSARY FEEDERS, BRANCH CIRCUITS, INSTALLATION OF AND CONNECTION TO LIGHTING FIXTURES, DEVICES, PANELBOARDS, SWITCHES, AND ALL OTHER EQUIPMENT SHOWN, AND THE CONNECTION TO MOTORS, FANS, TRANSFORMERS, CONTROLLERS AND OTHER POWER LOADS FURNISHED UNDER SEPERATE DIVISIONS.
   - EXTEND THE BUILDING GROUND SYSTEM AND PROVIDE EQUIPMENT AND SAFETY GROUNDS.
   - CONNECT ALL CONTROL DEVICES AS INDICATED ON THESE DRAWINGS.
   - FURNISH AND INSTALL LIGHTING EQUIPMENT AS INDICATED.
   - FURNISH AND INSTALL ALL COMMUNICATION SYSTEM COMPONENTS AND CABLING, AND CONNECT TO VERTICAL TRANSPORT CONTROLS.
   - FURNISH AND INSTALL THE ADDITIONAL FIRE ALARM SYSTEM APPLIANCES SHOWN AND REQUIRED AND CONNECT TO BUILDING WIDE SUPERVISED FIRE ALARM SYSTEM. TEST AND CERTIFY THE ADDITIONAL EQUIPMENT.
3. THE BIDDER SHALL INSPECT THE PRESENT JOBSITE CONDITIONS BEFORE PREPARING HIS BID. THE SUBMISSION OF A BID WILL BE CONSIDERED EVIDENCE THAT SUCH A VISIT AND INSPECTION WAS PERFORMED BY THE BIDDER AND THAT HE TAKES FULL RESPONSIBILITY FOR ALL FACTORS GOVERNING HIS WORK.
4. THE ELECTRICAL WORK SHALL BE COMPLETE, FULLY OPERATIONAL, AND SUITABLE IN EVERY WAY FOR THE SERVICE REQUIRED. DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL DETAILS, DEVICES AND INCIDENTAL MATERIALS NECESSARY TO ACCOMPLISH THEIR INTENT. THEREFORE, IT SHALL BE UNDERSTOOD THAT SUCH DEVICES AND INCIDENTAL MATERIALS REQUIRED SHALL BE FURNISHED AT NO COST TO THE OWNER.

NOTES



KEY PLAN
NO SCALE

McGinniss & Fleming Engineering, Inc.
Mechanical · Electrical · Fire Protection · Plumbing
1401 Miccosukee Road
Tallahassee, Florida 32308-5171 EB #05990

LEON COUNTY JUDICIAL COMPLEX
UPGRADE ELEVATORS No. 6 & 7

LEON COUNTY FACILITIES
Tallahassee, Florida

DATE:
March 7, 2011

REVISED:
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DESIGNED BY:	DRAWN BY:
CKF	CKF

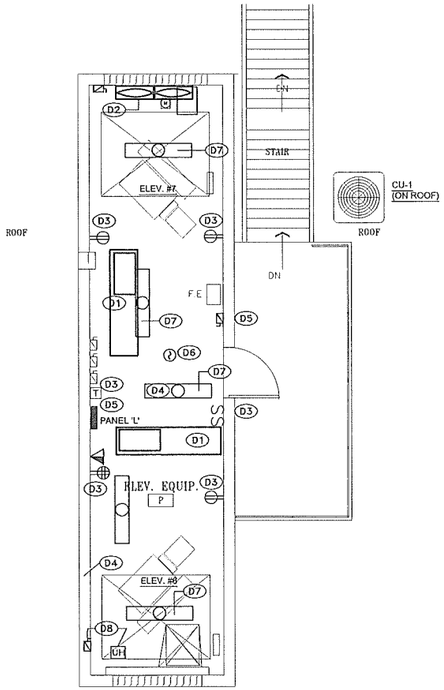
SUBMITTAL:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
ELECTRICAL
SYMBOL LEGEND, NOTES AND SCHEDULES

SHEET:
E1.0

JOB NUMBER:
1012

Charles K. Fleming, PE #48107



ELEVATOR EQUIPMENT ROOM - DEMO

1/4"=1'-0"

ELECTRICAL NOTES - KEY

(E1) PROVIDE NEW FIRE ALARM RELAY CONNECTIONS TO NEW CONTROLLER EQUIPMENT FOR RECALL FUNCTION. DO NOT SPLICE, PROVIDE NEW. SEE FIRE ALARM GENERAL NOTES.

(E2) ELEVATOR RECALL RELAYS ARE EXISTING TO REMAIN. ADD THE WIRING NECESSARY TO OPERATE (OPEN) HOISTWAY VENTILATION DAMPERS UPON ALARM SIGNAL.

(E3) FIRE ALARM SYSTEM INITIATING DEVICES ARE EXISTING AND TO REMAIN. RELOCATE DEVICES TO AVOID NEW HVAC WORK AS INDICATED.

(E4) EXISTING LIGHTING FIXTURES ARE TO REMAIN. CLEAN LENSES WITH SOAP AND WATER. INSTALL NEW T-8 ELECTRONIC BALLASTS. INSTALL NEW LAMP SOCKETS. INSTALL NEW T8-841 LAMPS.

(E5) INSTALL NEW FUSING IN EACH DISCONNECT, APPROPRIATELY RATED FOR NEW EQUIPMENT.

(E6) RECONNECT EXISTING DEDICATED EMERGENCY IN-CAB TELEPHONE LINES TO NEW CONTROLLER ENCLOSURES. EXTEND EXISTING CONDUIT AS NECESSARY.

(E7) PROVIDE ENGRAVED LABELS FOR PANELBOARD AND EACH DISCONNECT IN ACCORDANCE WITH THE SPECIFICATIONS.

(E8) INTERLOCK DAMPER OPERATORS WITH ELEVATOR RECALL RELAY(S) SUCH THAT DAMPERS OPEN UPON RECALL SIGNAL.

(E9) PROVIDE FIRE ALARM SYSTEM ADDRESSABLE RELAY TO SHUTDOWN AIR HANDLER UPON ACTIVATION OF MACHINE ROOM DETECTOR. USE OF RELAY BASE IS ACCEPTABLE.

(E10) PROVIDE FIRE ALARM SYSTEM ADDRESSABLE SMOKE DETECTOR IN TOP OF HOISTWAY. PROGRAM DETECTION SEQUENCE SUCH THAT SMOKE DETECTOR ACTIVATION INITIATES DAMPER OPERATION OPEN (THRU RELAY), INITIATES ELEVATOR RECALL OPERATION AND CAUSES A DISTINCTLY IDENTIFIED SYSTEM ALARM AT THE CONTROL PANEL.

DEMOLITION NOTES - KEY

(D1) DISCONNECT AND REMOVE ALL POWER WIRING FROM EXISTING ELEVATOR EQUIPMENT AND PREPARE FOR REMOVAL BY ELEVATOR CONTRACTOR. VERIFY EXACTLY WHAT IS TO BE REMOVED AND WHAT IS TO REMAIN AND CONDUCT WORK ACCORDINGLY.

(D2) REMOVE ELECTRICAL CONNECTION TO VENTILATION FAN AND RACEWAY COMPLETE. REMOVE STARTER.

(D3) REMOVE EXISTING RECEPTACLES AND SWITCHES AND PREPARE TO REPLACE WITH NEW.

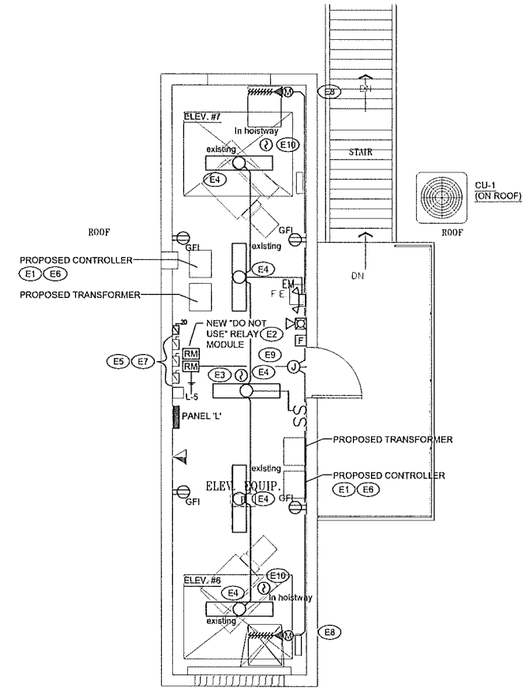
(D4) REMOVE ABANDONED MECHANICAL CONTROLS INCLUDING PNEUMATIC CONTROLS AND PIPING. REMOVE ALL ATTACHMENT HARDWARE. REMOVE ABANDONED DUCT HANGARS. PATCH HOLES.

(D5) PROTECT EXISTING EQUIPMENT TO REMAIN.

(D6) PROTECT EXISTING FIRE ALARM SYSTEM SMOKE DETECTION DEVICES DURING CONSTRUCTION. DISABLE SOFTWARE POINTS IF NECESSARY AND ONLY DURING BUSINESS HOURS AND ONLY DURING WORK PERIODS WHEN CONTRACTOR'S SUPERINTENDANT IS ON SITE.

(D7) DELIVER LAMPS AND BALLASTS TO A RECLAIM CENTER.

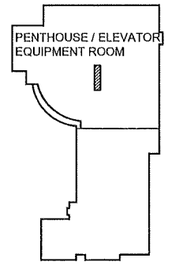
(D8) REMOVE EXISTING MECHANICAL EQUIPMENT COMPLETE. DISPOSE OF ALL MATERIALS.



ELEVATOR EQUIPMENT ROOM - NEW WORK

1/4"=1'-0"

NOTES



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CKF	TEB

SUBMITTAL:
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ELECTRICAL
ELEVATOR EQUIPMENT ROOM
DEMOLITION AND NEW WORK
PLANS

SHEET:
E2.0

Charles K. Fleming, FL #48107

JOB NUMBER:
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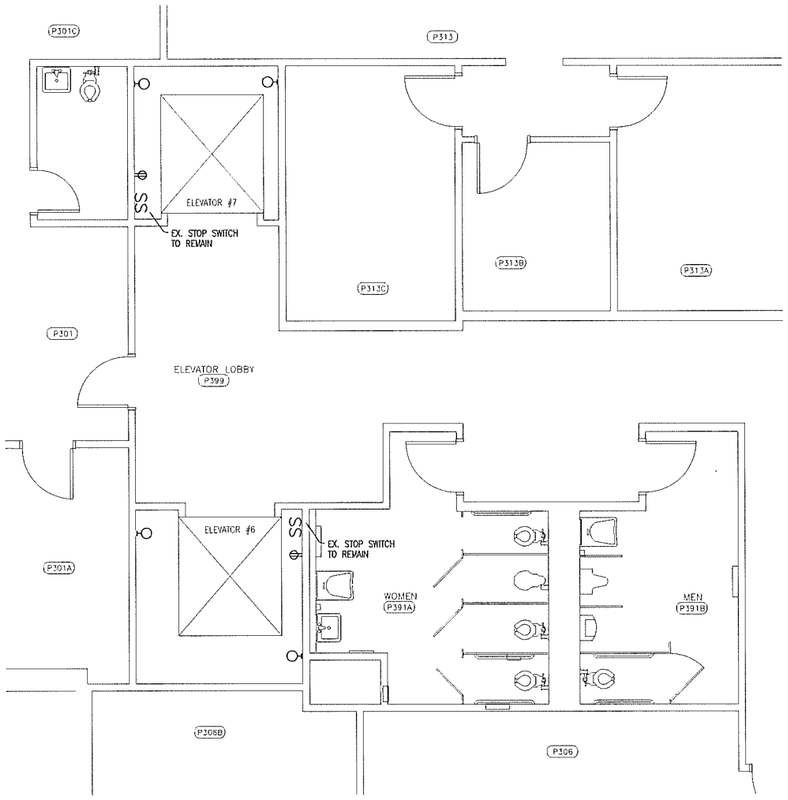
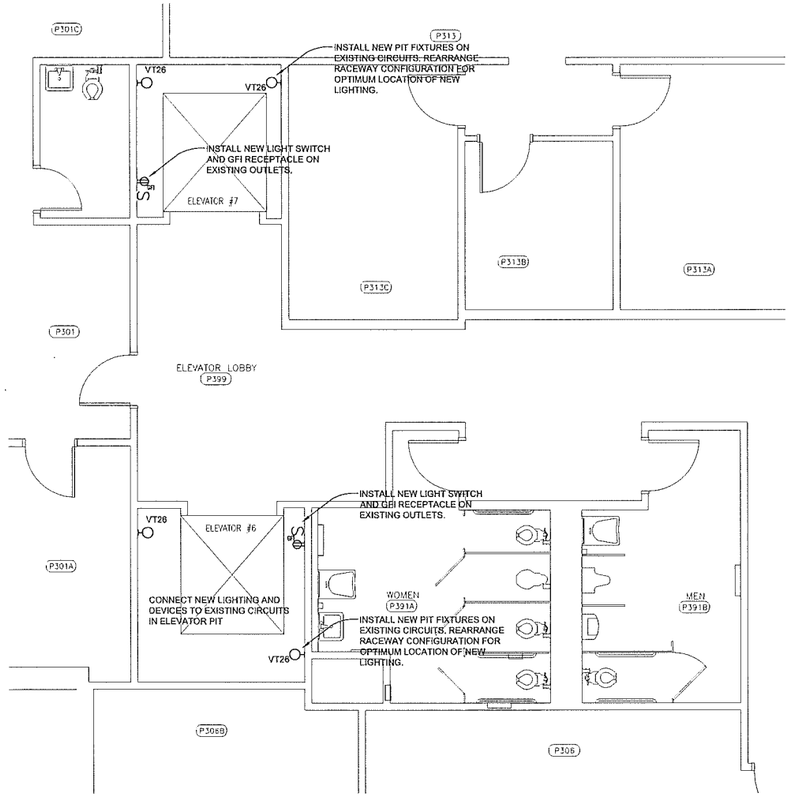


P-3 LEVEL ELEVATOR PIT - DEMO

1/4"=1'-0"



P-3 LEVEL ELEVATOR PIT - NEW WORK

1/4"=1'-0"

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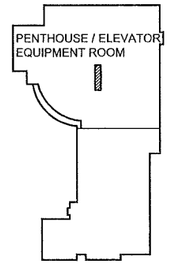

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P-3 LEVEL ELEVATOR PIT
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PLANS

SHEET:
E3.0

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