

LEON COUNTY COURTHOUSE NEW FIRE ALARM SYSTEM

100% CONSTRUCTION DOCUMENTS

for
LEON COUNTY
TALLAHASSEE, FLORIDA

March 13, 2013



Pinnacle Engineering Group, P.A.

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TALLAHASSEE, FLORIDA 32309
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Engineering Business 9978

PEG #212-116

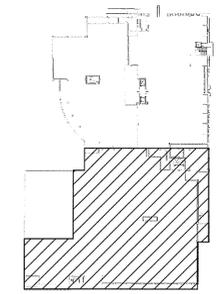
DRAWING LIST

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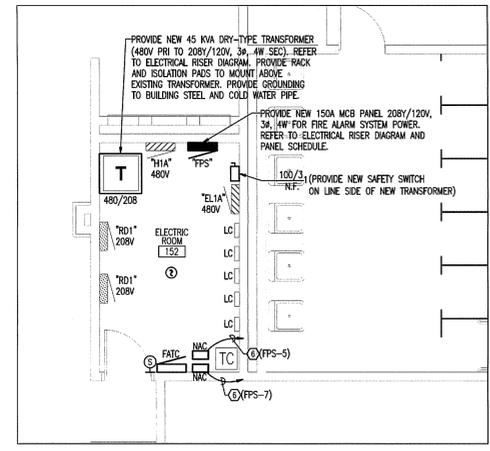
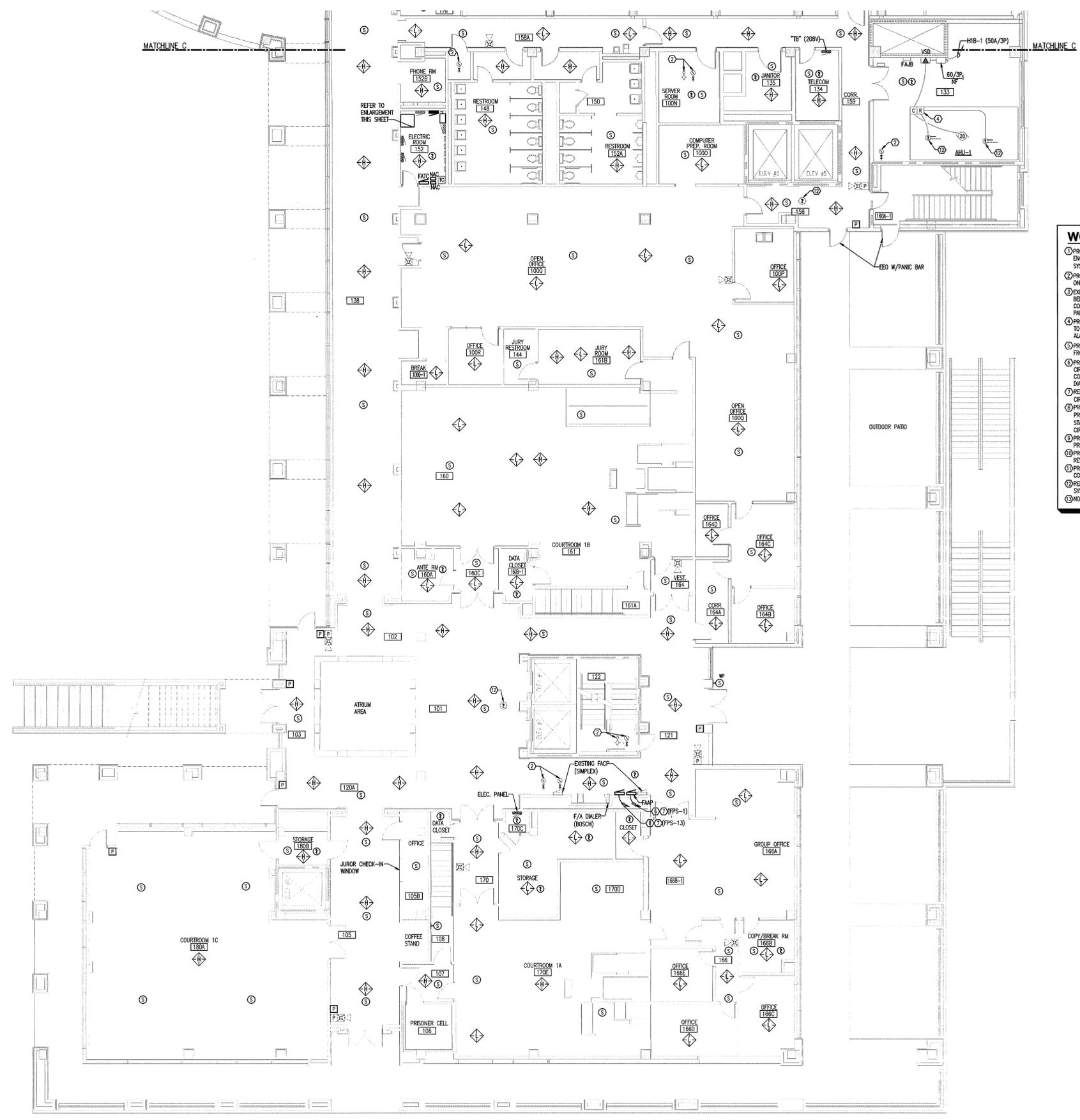
WALL RATING LEGEND	
---	1 HOUR FIRE RATED PARTITION
---	1 HOUR RATED FIRE/SMOKE PARTITION
---	2 HOUR FIRE RATED PARTITION
---	SMOKE TIGHT CONSTRUCTION

- WORK NOTES:**
- 1 PROVIDE A NEW SHUT-DOWN RELAY AND ALL WIRING, CONDUIT ENCLOSURE, AND RELATED IN THE CONTROLLER FOR THE FIRE ALARM SYSTEM GENERAL ALARM TO SHUT-DOWN (DISABLE) THIS EQUIPMENT.
 - 2 PROVIDE AN ADDRESSABLE MODULE FOR EXISTING DEVICE TO FUNCTION ON NEW FIRE ALARM SYSTEM.
 - 3 EXISTING CEILING-MOUNTED SMOKE DETECTORS AND CORRESPONDING BELOW-FLOOR SMOKE DETECTORS IN THE MAIN COMPUTER ROOM ARE CONNECTED ON THE LOAD-SIDE OF THE HALON SYSTEM AND ARE NOT PART OF THIS PROJECT.
 - 4 PROVIDE A NEW SHUT-DOWN RELAY AND RELATED WIRING AS REQUIRED TO TURN INAC EQUIPMENT OFF UPON A GENERAL ALARM OF THE FIRE ALARM SYSTEM.
 - 5 PROVIDE A NEW SMOKE DETECTOR LOCATED A MINIMUM OF 4- FEET FROM THE SUPPLY AIR VENT.
 - 6 PROVIDE (1) 2" x 1" #10 & 1" #10 G TO PANEL AND CIRCUIT INDICATED FOR SERVICE TO NEW FIRE ALARM SYSTEM COMPONENT. REFER TO PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.
 - 7 REMOVE EXISTING FAC'S AND PROVIDE NEW EMERGENCY POWER CIRCUITS TO FEED NEW FAAP'S.
 - 8 PROVIDE MANUAL/AUTO CONTROL SWITCH IN BAILIFFS MONITORING ROOM. PROVIDE INTERCONNECTION CONDUITS/CONDUCTORS. (FIELD VERIFY STARTER LOCATION) EXISTING FAN OPERATION SHALL NOT BE CIRCUMVENTED.
 - 9 PROVIDE NEW CONNECTIONS TO EXISTING DRY PIPE SPRINKLER SYSTEM PRESSURE SWITCHES AND TAMPER SWITCHES.
 - 10 PROVIDE MONITORING OF FIRE PUMP CONTROLLER PHASE LOSS, PHASE REVERSAL AND POWER LOSS.
 - 11 PROVIDE MONITORING OF FIRE SPRINKLER SYSTEM COMPRESSORS CONTROLLER PHASE LOSS, PHASE REVERSAL AND POWER LOSS.
 - 12 REPLACE EXISTING DEVICE WITH NEW COMPATIBLE WITH NEW FIRE ALARM SYSTEM.
 - 13 NO SHUT-DOWN RELAY REQUIRED.

LINE TYPE LEGEND	
---	EXISTING TO BE REMOVED
---	EXISTING TO REMAIN
---	NEW TO BE PROVIDED



KEY PLAN
NOT TO SCALE



ENLARGED ELECTRICAL ROOM
SCALE: 1/4"=1'-0"

PLAZA LEVEL SOUTH - EXISTING CONDITIONS/NEW WORK - FLOOR PLAN
SCALE: 1/8"=1'-0"

Pinnacle Engineering Group, P.A.
TALLAHASSEE, FLORIDA

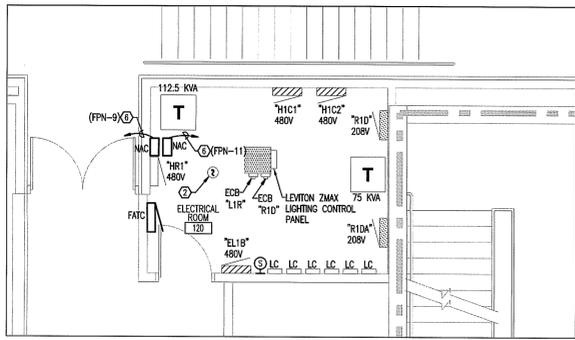
**LEON COUNTY COURTHOUSE
NEW FIRE ALARM SYSTEM**
LEON COUNTY
TALLAHASSEE, FLORIDA

**PLAZA LEVEL SOUTH
EXISTING CONDITIONS/NEW WORK
FLOOR PLAN**

FILE	E1.1S
JOB NO.	212-116
DATE	3/13/2013
SCALE	1"=1'
DRAWN BY	DLG
CHECKED BY	RKF
SHEET NO.	

E1.1S

W:\12-116 Leon Cty Ct Hm Alarm\ELL.dwg - 3/13/2013 3:22:26 PM, Ratched



ENLARGED ELECTRICAL ROOM

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



WALL RATING LEGEND

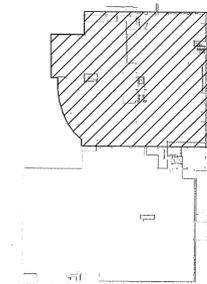
(Symbol: Dashed line)	1 HOUR FIRE RATED PARTITION
(Symbol: Dotted line)	1 HOUR RATED FIRE/SMOKE PARTITION
(Symbol: Solid line)	2 HOUR FIRE RATED PARTITION
(Symbol: Dash-dot line)	SMOKE TIGHT CONSTRUCTION

WORK NOTES:

- PROVIDE A NEW SHUT-DOWN RELAY AND ALL WIRING, CONDUIT, ENCLOSURE, AND RELATED IN THE CONTROLLER FOR THE FIRE ALARM SYSTEM GENERAL ALARM TO SHUT-DOWN (DISABLE) THIS EQUIPMENT.
- PROVIDE AN ADDRESSABLE MODULE FOR EXISTING DEVICE TO FUNCTION ON NEW FIRE ALARM SYSTEM.
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- PROVIDE A NEW SMOKE DETECTOR LOCATED A MINIMUM OF 4- FEET FROM THE SUPPLY AIR VENT.
- PROVIDE (1) 2" x 1" #10 & 1 #10 G TO PANEL AND CIRCUIT INDICATED FOR SERVICE TO NEW FIRE ALARM SYSTEM COMPONENT. REFER TO PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.
- REMOVE EXISTING FACPS AND PROVIDE NEW EMERGENCY POWER CIRCUITS TO FEED NEW FACP'S.
- PROVIDE MANUAL/AUTO CONTROL SWITCH IN BALIFFS MONITORING ROOM. PROVIDE INTERCONNECTION CONDUITS/CONDUCTORS. (FIELD VERIFY STARTER LOCATION) EXISTING FAN OPERATION SHALL NOT BE CIRCUMVENTED.
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- REPLACE EXISTING DEVICE WITH NEW COMPATIBLE WITH NEW FIRE ALARM SYSTEM.
- NO SHUT-DOWN RELAY REQUIRED.

LINE TYPE LEGEND

(Symbol: Dashed line)	EXISTING TO BE REMOVED
(Symbol: Solid line)	EXISTING TO REMAIN
(Symbol: Dash-dot line)	NEW TO BE PROVIDED



KEY PLAN

NOT TO SCALE

PLAZA LEVEL NORTH - EXISTING CONDITIONS/NEW WORK - FLOOR PLAN

SCALE: 1/8"=1'-0"



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DATE	
REV	DESCRIPTION

**LEON COUNTY COURTHOUSE
 NEW FIRE ALARM SYSTEM**
 LEON COUNTY
 TALLAHASSEE, FLORIDA

**PLAZA LEVEL NORTH
 EXISTING CONDITIONS/NEW WORK
 FLOOR PLAN**

FILE	E1.1N
JOB NO.	212-116
DATE	3/13/2013
SCALE	1"=1'
DRAWN BY	DLC
CHECKED BY	RKF
SHEET NO.	

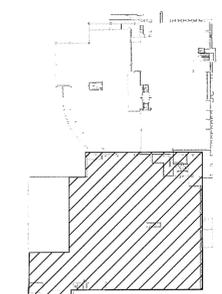
E1.1N

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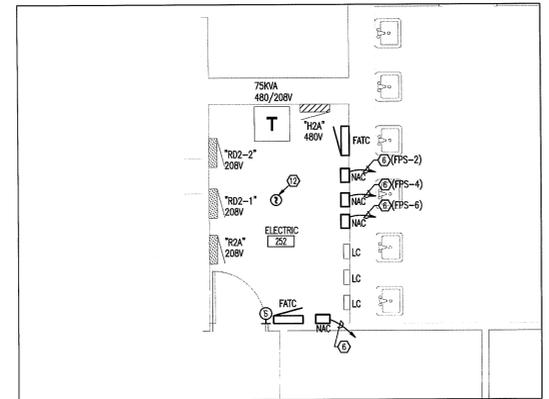
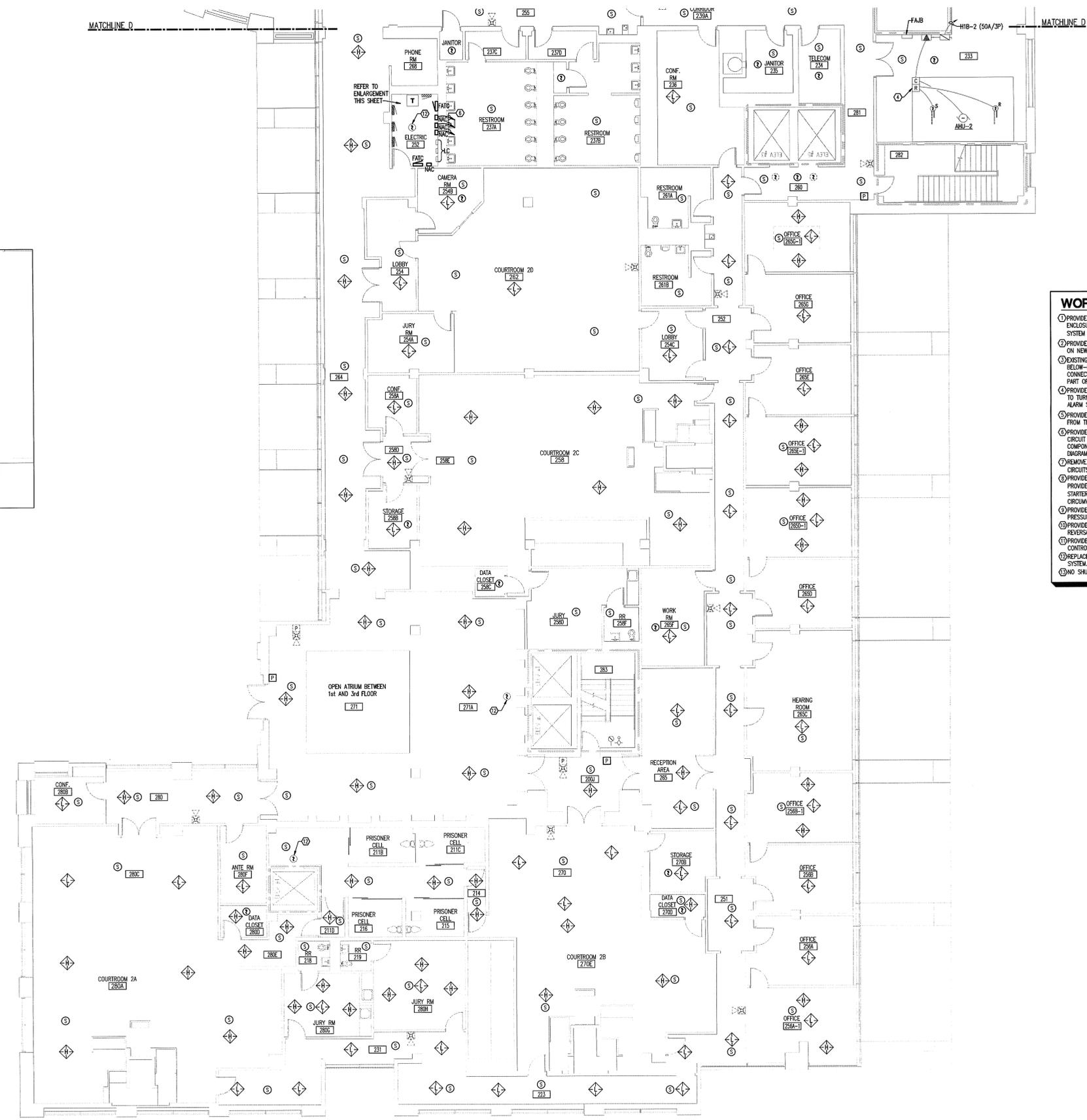
WALL RATING LEGEND	
---	1 HOUR FIRE RATED PARTITION
---	1 HOUR RATED FIRE/SMOKE PARTITION
---	2 HOUR FIRE RATED PARTITION
---	SMOKE TIGHT CONSTRUCTION

- WORK NOTES:**
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 - PROVIDE A NEW SMOKE DETECTOR LOCATED A MINIMUM OF 4- FEET FROM THE SUPPLY AIR VENT.
 - PROVIDE (1) 3/4" - 1 #10 & 1 #10 N & 1 #10 G TO PANEL AND CIRCUIT INDICATED FOR SERVICE TO NEW FIRE ALARM SYSTEM COMPONENT. REFER TO PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.
 - REMOVE EXISTING FACP'S AND PROVIDE NEW EMERGENCY POWER CIRCUITS TO FEED NEW FACP'S.
 - PROVIDE MANUAL/AUTO CONTROL SWITCH IN BALUFFS MONITORING ROOM. PROVIDE INTERCONNECTION CONDUITS/CONDUCTORS. (FIELD VERIFY STARTER LOCATION) EXISTING FAN OPERATION SHALL NOT BE CIRCUMVENTED.
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LINE TYPE LEGEND	
---	EXISTING TO BE REMOVED
---	EXISTING TO REMAIN (LIGHT)
---	NEW TO BE PROVIDED (BOLD)



KEY PLAN
NOT TO SCALE



ENLARGED ELECTRICAL ROOM
SCALE: 1/4"=1'-0"

SECOND FLOOR SOUTH - EXISTING CONDITIONS/NEW WORK - FLOOR PLAN
SCALE: 1/8"=1'-0"

Pinnacle Engineering Group, P.A.
Pinnacle Engineering Group, P.A.
1100 W. UNIVERSITY BLVD., SUITE 200
TALLAHASSEE, FLORIDA 32310
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DATE	REV.	DESCRIPTION

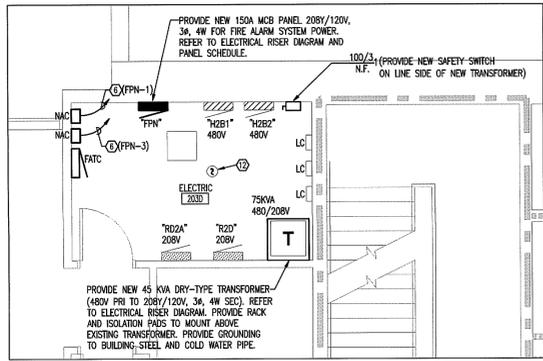
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NEW FIRE ALARM SYSTEM**
LEON COUNTY
TALLAHASSEE, FLORIDA

**SECOND FLOOR SOUTH
EXISTING CONDITIONS/NEW WORK
FLOOR PLAN**

FILE:	E1.2S
JOB NO.:	212-116
DATE:	3/13/2013
SCALE:	1=1
DRAWN BY:	DLC
CHECKED BY:	RKF
SHEET NO.:	

E1.2S

M:\212-116 Leon Cty Ct The Alarm\EL12.dwg, 3/13/2013 3:25:30 PM, RKF



ENLARGED ELECTRIC ROOM
SCALE: 1/4"=1'-0"

WALL RATING LEGEND

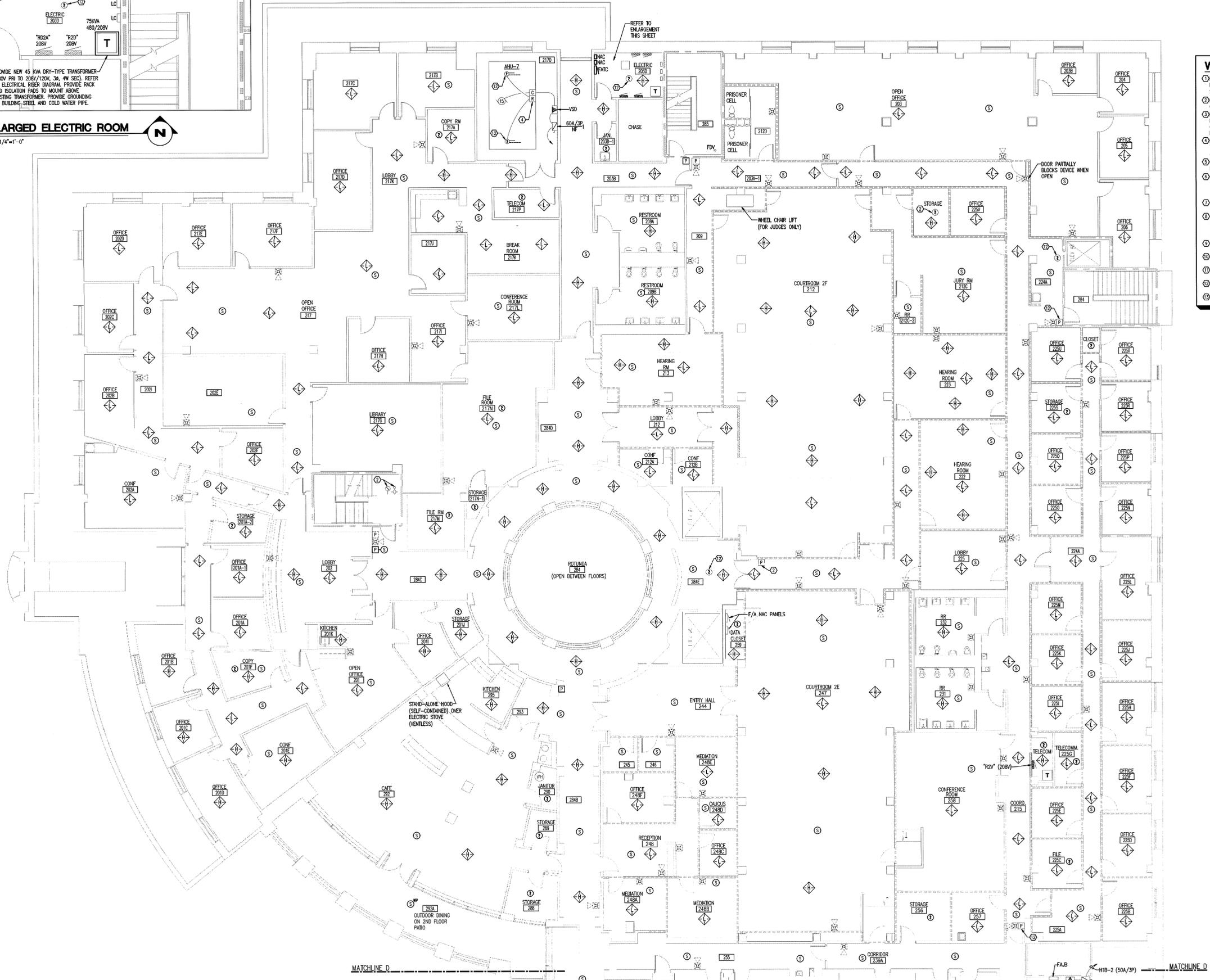
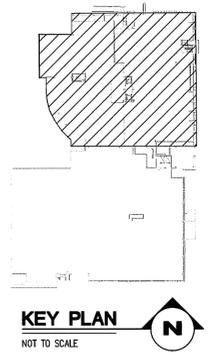
(Symbol: Dashed line)	1 HOUR FIRE RATED PARTITION
(Symbol: Dotted line)	1 HOUR RATED FIRE/SMOKE PARTITION
(Symbol: Solid line)	2 HOUR FIRE RATED PARTITION
(Symbol: Thick solid line)	SMOKE TIGHT CONSTRUCTION

WORK NOTES:

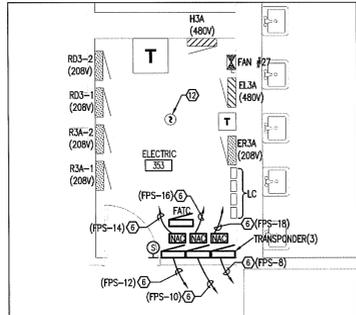
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- PROVIDE A NEW SMOKE DETECTOR LOCATED A MINIMUM OF 4- FEET FROM THE SUPPLY AIR VENT.
- PROVIDE (1) 2" x 1" #10 N & 1" #10 G TO PANEL AND CIRCUIT INDICATED FOR SERVICE TO NEW FIRE ALARM SYSTEM COMPONENT. REFER TO PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.
- REMOVE EXISTING FAC'S AND PROVIDE NEW EMERGENCY POWER CIRCUITS TO FEED NEW FAN'S.
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LINE TYPE LEGEND

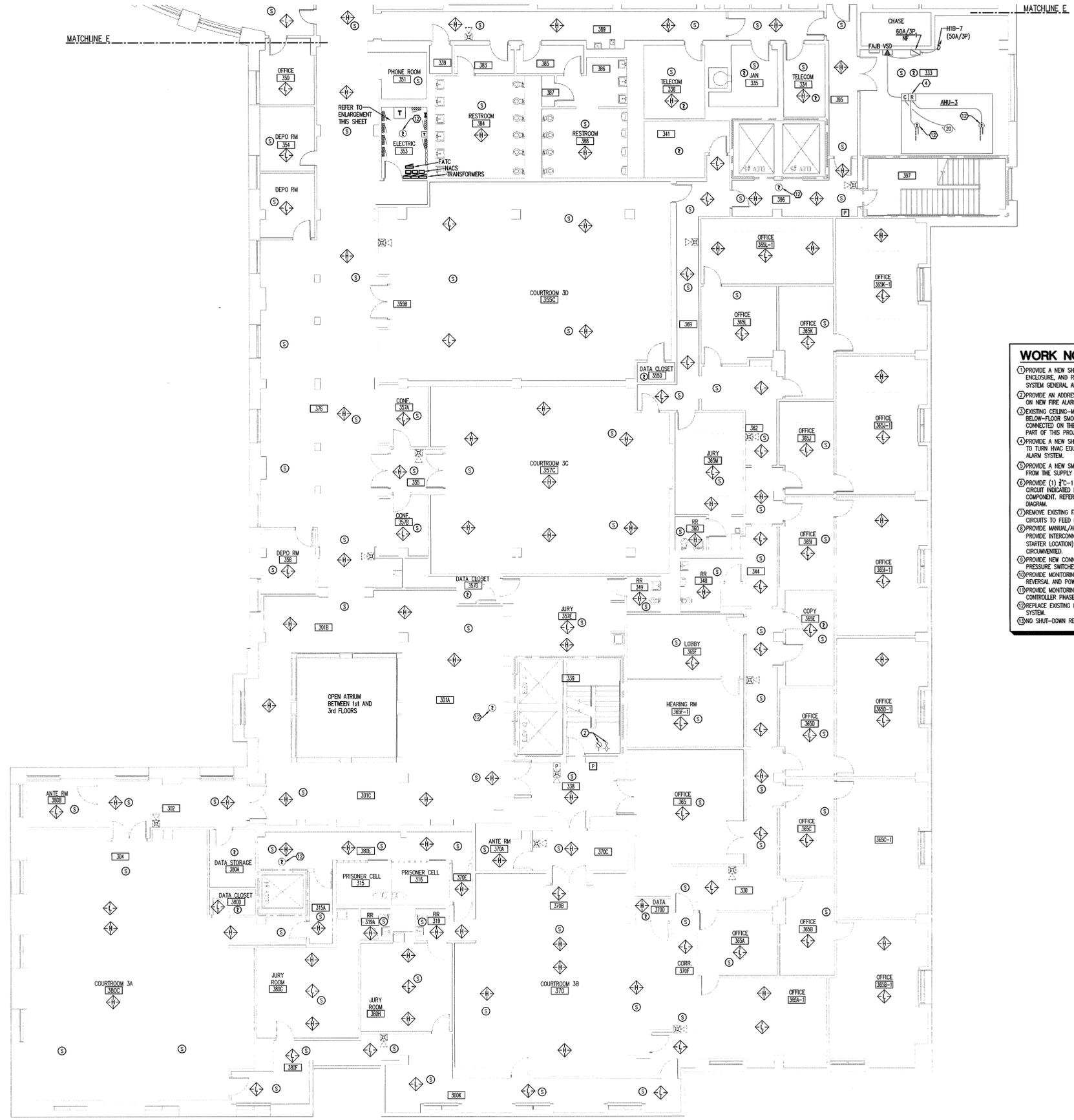
(Symbol: Dashed line)	EXISTING TO BE REMOVED
(Symbol: Dotted line)	EXISTING TO REMAIN (LIGHT)
(Symbol: Solid line)	NEW TO BE PROVIDED (BOLD)



WALL RATING LEGEND	
---	1 HOUR FIRE RATED PARTITION
---	1 HOUR RATED FIRE/SMOKE PARTITION
---	2 HOUR FIRE RATED PARTITION
---	SMOKE TIGHT CONSTRUCTION

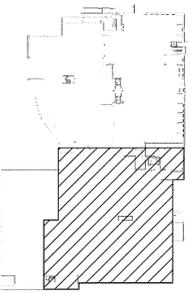


ENLARGED ELECTRICAL ROOM
SCALE: 1/4"=1'-0"



- WORK NOTES:**
- PROVIDE A NEW SHUT-DOWN RELAY AND ALL WIRING, CONDUIT, ENCLOSURE, AND RELATED IN THE CONTROLLER FOR THE FIRE ALARM SYSTEM GENERAL ALARM TO SHUT-DOWN (DISABLE) THIS EQUIPMENT ON NEW FIRE ALARM SYSTEM.
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 - PROVIDE A NEW SMOKE DETECTOR LOCATED A MINIMUM OF 4'-FEET FROM THE SUPPLY AIR VENT:
 - PROVIDE (1) 1/2" x 1 #10 & 1 #10 N & 1 #10 G TO PANEL AND CIRCUIT INDICATED FOR SERVICE TO NEW FIRE ALARM SYSTEM COMPONENT. REFER TO PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.
 - REMOVE EXISTING FACP'S AND PROVIDE NEW EMERGENCY POWER CIRCUITS TO FEED NEW FACP'S.
 - PROVIDE MANUAL/AUTO CONTROL SWITCH IN BULFP'S MONITORING ROOM. PROVIDE INTERCONNECTION CONDUITS/CONDUCTORS. (FIELD VERIFY STARTER LOCATION) EXISTING FAN OPERATION SHALL NOT BE CIRCUMVENTED.
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 - NO SHUT-DOWN RELAY REQUIRED.

LINE TYPE LEGEND	
---	EXISTING TO BE REMOVED
---	EXISTING TO REMAIN (LIGHT)
---	NEW TO BE PROVIDED (BOLD)



KEY PLAN
NOT TO SCALE

THIRD FLOOR SOUTH - EXISTING CONDITIONS/NEW WORK - FLOOR PLAN
SCALE: 1/8"=1'-0"

Pinnacle Engineering Group, P.A.
Pinnacle Engineering Group, P.A.
Tallahassee, Florida 32308
OFFICE: (904) 480-1100
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REV.	DESCRIPTION	DATE

**LEON COUNTY COURTHOUSE
NEW FIRE ALARM SYSTEM**
LEON COUNTY
TALLAHASSEE, FLORIDA

**THIRD FLOOR SOUTH
EXISTING CONDITIONS/NEW WORK
FLOOR PLAN**

FILE:	E1.3S
JOB NO.:	212-116
DATE:	3/13/2013
SCALE:	1=1
DRAWN BY:	DLC
CHECKED BY:	RKF
SHEET No.:	

E1.3S

EXISTING FAN SCHEDULE

UNIT NO.	LOCATION	AREA SERVED	CFM	MOTOR HP	FIRE ALARM DEVICES
EF-2	P1	PARKING LEVEL 1	7200	3/4	N
EF-4	P1	PARKING LEVEL 1	7200	3/4	N
EF-6	P1	PARKING LEVEL 1	7200	3/4	N
EF-7	P2	CHILLER ROOM 1 VENTILATION	15,000	2	R
EF-9	P2	PARKING LEVEL 2	7200	3/4	N
EF-11	P2	PARKING LEVEL 2	7200	3/4	N
EF-12	P2	PARKING LEVEL 2	7200	3/4	N
EF-13	P2	PARKING LEVEL 2	7200	3/4	N
EF-14	P3S	PRISON HOLD TOILET	90	50 WATTS	R
EF-16	P3S	PARKING LEVEL 3	7200	3/4	N
EF-19	P3S	PARKING LEVEL 3	7200	3/4	N
EF-21	P4S	PARKING LEVEL 4	20200	3	N
EF-22	P4S	PARKING LEVEL 4	20200	3	N
EF-23	P4S	PARKING LEVEL 4	20200	3	N
EF-24	P4S	PARKING LEVEL 4	20200	3	N
EF-25	ROOF	TOILET EXHAUST	725	1/16	R
EF-26	ROOF	TOILET EXHAUST	7195	1.5	R
EF-27	RPPF	SOUTH ATRIUM SMOKE EXHAUST	40000	10	*A INTERLOCK TO START UPON F.A. ACTIVATION
EF-28	P2	TRANSFORMER ROOM VENTILATION	15000	2	R
EF-30	P0	PARKING LEVEL 0	7200	3/4	N
EF-32	P0	PARKING LEVEL 0	7200	3/4	N
EF-34	P0	PARKING LEVEL 0	7200	3/4	N
EF-36	P0	PARKING LEVEL 0	14400	3	N
EF-39	P1	PARKING LEVEL 1	14400	3	N
EF-42	P2	PARKING LEVEL 2	14400	3	N
EF-45	P3S	PARKING LEVEL 3	14400	3	N
EF-47	P4S	ELEVATOR #4 MACH. RM VENTILATION	5000	1/4	R
EF-48	ROOF	ELEVATORS #1 & #2 MACH. RM VENTILATION	15000	2	R
EF-49	ROOF	ELEVATORS #3 & #5 MACH. RM VENTILATION	15,000	2	R
EF-51	P4N	PARKING LEVEL 4	18,115	3	N
EF-52	P4N	PARKING LEVEL 4	18,115	3	N
EF-53	P4N	PARKING LEVEL 4	18,115	3	N
EF-54	P4N	PARKING LEVEL 4	18,115	3	N
EF-55	P4N	PARKING LEVEL 4	18,115	3	N
EF-56	P4N	PARKING LEVEL 4	18,115	3	N
EF-57	P4N	PARKING LEVEL 4	18,115	3	N
EF-58	P4N	PARKING LEVEL 4	18,115	3	N
EF-59	P4N	PARKING LEVEL 4	18,115	3	N
EF-61	P4N	PARKING LEVEL 4	18,115	3	N
EF-62	P4N	PARKING LEVEL 4	18,115	3	N
EF-63	P4N	PARKING LEVEL 4	18,115	3	N
EF-64	P4N	PARKING LEVEL 4	18,115	3	N
EF-65	ROOF	SMOKE EXHAUST	56,000	15	*A INTERLOCK TO START UPON F.A. ACTIVATION
EF-66	ROOF	SMOKE EXHAUST	56,000	15	*A INTERLOCK TO START UPON F.A. ACTIVATION
EF-67	ROOF	NORTH ATRIUM SMOKE EXHAUST	40,000	10	*A INTERLOCK TO START UPON F.A. ACTIVATION
EF-68	ROOF	TOILET EXHAUST	4,315	3/4	R
EF-69	ROOF	TOILET EXHAUST	260	130 WATTS	R
EF-70	ROOF	TOILET EXHAUST	500	1/6	R
EF-71	ROOF	LOCKER EXHAUST	2100	1/4	R
EF-72	ROOF	ELEV. #6 & #7 MACH. RM VENTILATION	15,000	2	R
EF-73	P4N	PARKING LEVEL 4 ELECT. RM VENTILATION	2000	1	R
EF-74	P2	PARKING LEVEL 2	1800	1/4	N

R=PROVIDE F.A. SHUTDOWN RELAY AND INTERCONNECTION TO F.A. SYSTEM.
 N=NO F.A. RELAY.
 A=THIS IS THE PRESENT JOHNSON CONTROL'S CONFIGURATION.
 *A=PROVIDE MANUAL/AUTO CONTROL SWITCH IN BULLF'S MONITORING ROOM. PROVIDE INTERCONNECTION CONDUITS/CONDUCTORS, (FC-2 #10, 1 #10 GND. EA. SWITCH). EXISTING AUTOMATIC FAN OPERATION SHALL NOT BE CIRCUMVENTED.

GENERAL NOTES

- THE SCOPE OF THIS PROJECT IS TO:
 - REPLACE EXISTING HORN/STROBES WITH NEW VOICE EVACUATION TYPE SPEAKER/STROBES (AS APPLICABLE).
 - PROVIDE ADDITIONAL VOICE EVACUATION TYPE SPEAKER/STROBES.
 - UPGRADE THE SYSTEM ALARM TO PRE-RECORDED VOICE EVACUATION TYPE.
 - PROVIDE ADDITIONAL DEVICES INCLUDING DOOR-HOLDERS, SMOKE AND HEAT DETECTORS, AND PULL STATIONS AS INDICATED.
 - REPLACE THE FIRE ALARM PANELS.
 - REPLACE OTHER PANELS ANNUNCIATORS.
 - PROVIDE INTERFACE BETWEEN FACP AND LOCAL AREA NETWORK, TELEPHONE SYSTEM, DOOR ACCESS CONTROL SYSTEM AND ENERGY MANAGEMENT CONTROL SYSTEM.
 - PROVIDE LOCAL RESTRICTED EMERGENCY USE HANDETS FOR LIVE EMERGENCY VOICE BROADCAST OVER THE SYSTEM SPEAKERS FROM MAIN RECEPTION DESK (B-1) AND CONTROL ROOM (CENTRAL UTILITY PLANT).
 - REPLACE ALL NON-ADDRESSABLE DEVICES WITH ADDRESSABLE DEVICES (AS APPLICABLE).
- THE NEW SYSTEM SHALL BE A MICRO-PROCESSOR BASED, MULTI-PLEX, ADDRESSABLE FIRE ALARM CONTROL PANEL WITH ADDRESSABLE INITIATING DEVICES AND VOICE-EVACUATION ALARM FEATURE.
- REFER TO PLANS FOR LOCATION AND QUANTITY OF DEVICES.
- CONTRACTOR SHALL PROVIDE ALL TESTING AND REPORTS REQUIRED TO RE-CERTIFY THE SYSTEM.
- CONTRACTOR SHALL INSPECT AND REPLACE DEFECTIVE CONDUIT, WIRING, AND DEVICES TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM IN COMPLIANCE WITH CURRENT NFPA CODE REQUIREMENTS.
- ALL WIRING SHALL BE INSTALLED IN CONDUIT (2" MINIMUM).
- DUCT SMOKE DETECTORS SHALL BE LOCATED NEAR AHU'S AND SHALL BE FULLY ACCESSIBLE. PROVIDE A REMOTE INDICATOR FOR EACH DUCT SMOKE DETECTOR.
- OUTDOOR MOUNTED DUCT SMOKE DETECTORS SHALL BE INSTALLED IN WEATHERPROOF ENCLOSURES.
- CONTRACTOR SHALL FIRE-CAULK AND SEAL ALL CONDUIT PENETRATIONS OF WALLS, FLOORS, AND CEILINGS TO MAINTAIN CURRENT FIRE/SMOKE RATINGS.
- THIS FACILITY IS FULLY SPRINKLERED. THIS FIRE ALARM DESIGN TAKES ADVANTAGE OF ACCEPTABLE CODE PROVISIONS.
- FOR EACH ELEVATOR LOBBY, PIT, SHAFT, AND EQUIPMENT ROOM SMOKE AND HEAT DETECTORS SHALL BE INTERCONNECTED TO COMPLY WITH ALL APPLICABLE ELEVATOR CODE AND NFPA REQUIREMENTS IN ADDITION TO THE FOLLOWING:
 - ELEVATOR LOBBY SMOKE DETECTORS SHALL ACTIVATE ELEVATOR RECALL TO DESIGNATED LEVEL OR ALTERNATE LEVEL.
 - ELEVATOR EQUIPMENT ROOM AND SHAFT SMOKE DETECTORS SHALL ACTIVATE PH1 ELEVATOR RECALL AND FLASH "DO NOT USE ELEVATOR" WARNING LIGHT.
- ACTIVATION OF ANY MANUAL OR AUTOMATIC FIRE ALARM INITIATION DEVICE SHALL INITIATE A GENERAL ALARM (PRE-RECORDED VOICE-EVACUATION AND STROBE LIGHTS) THROUGHOUT THE FACILITY. UPON A GENERAL ALARM, THE FIRE ALARM SYSTEM SHALL CLOSE FIRE/SMOKE DOORS AND SHUT DOWN HVAC EQUIPMENT IN AFFECTED SMOKE COMPARTMENT ON SAME FLOOR AND SMOKE COMPARTMENTS ABOVE AND BELOW.
- GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS. SHEET NOTES APPLY ONLY ON THE DRAWING ON WHICH THEY APPEAR. FLAG NOTES REFER TO LIKE NUMBERED ITEMS ON THE SHEET WHICH THEY APPEAR.
- ALL EQUIPMENT SHALL BE UL LABELED AND LISTED.
- PROJECT PHASING SHALL BE COORDINATED WITH OWNER AND ENGINEER.
- LEGEND NOTES APPLY TO ALL SHEETS.
- THE PROSPECTIVE BIDDER IS REQUIRED TO VISIT THE SITE TO REVIEW ALL EXISTING CONDITIONS TO VERIFY ALL EQUIPMENT, DEVICE LOCATIONS, AND WIRING PRIOR TO SUBMITTING BID PRICE.
- ALL PLANS DEPICT THE EXISTING SYSTEM AND REPLACEMENT REQUIRED TO A NEW PRE-RECORDED, VOICE-EVACUATION SYSTEM. HOWEVER, ALL PROPOSALS MUST BE BASED UPON REPLACEMENT OF ALL EXISTING SIMPLEX EQUIPMENT WITH AN EQUIVALENT TO SIMPLEX 4100 ES SYSTEM.
- CONNECTION TO AND INTERFACE WITH ACCESS CONTROL SYSTEM AND JOHNSON CONTROLS, (BAS) SYSTEMS IS REQUIRED. PROSPECTIVE BIDDERS SHALL INVESTIGATE AND INCLUDE ALL WORK COMPONENTS AND PROGRAMMING NECESSARY, INCLUDE ALL COSTS IN BID PRICE.
- THIS CONTRACTOR SHALL PROVIDE (10) NEW FIRE/SMOKE DAMPERS, PER FIRE/SMOKE DAMPER DETAIL AND 100' OF FIRE ALARM CABLE/CONDUIT PER UNIT, LABOR, MATERIAL, OVERHEAD, AND PROFIT SHALL BE INCLUDED. PROVIDE INTERCONNECTIONS, (INTERFACE RELAY) TO NEW FIRE ALARM SYSTEM, POWER CONSISTING OF FC-2 #10, 1 #10 GND. TO NEAREST EM PANEL "FPI" OR "FPS". EXACT LOCATIONS OF THESE DEVICES TO BE DETERMINED BY ENGINEER. IF THESE DEVICES ARE NOT USED, THEN A CREDIT WILL BE ISSUED BACK TO OWNER AT PROJECT SUBSTANTIAL COMPLETION.
- THIS CONTRACTOR SHALL DISPOSE OF ALL REMOVED/SURPLUS MATERIAL IN A LEGAL MANNER. THE OWNER MAY TAKE POSSESSION OF ANY REMOVED/SURPLUS MATERIAL AT THEIR DISCRETION UPON NOTIFICATION OF THE CONTRACTOR.
- THIS CONTRACTOR SHALL REPAIR ALL WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RELOCATION OF EXISTING DEVICES OR PANELS. BLANK PLATES MAY BE USED OVER EXISTING WALL OR CEILING BOXES.

ABBREVIATIONS, LEGENDS AND GENERAL NOTES

ABBREVIATIONS

A	AMPERE
AC	AIR CONDITIONING OR ALTERNATING CURRENT
ACC	ACCESS
AF	AMPERE FRAME
AFB	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMP	AMMETER
ARH	ARCHITECT
AT	AMPERE TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BELOW GRADE
C	CONDUIT
CB	CIRCUIT BREAKER
CH	CHILLER
CKT	CIRCUIT
CL	CENTER LINE
CLF	CURRENT-LIMITING FUSE
CM	CEILING MOUNTED CONTROL
CU	COPPER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ELECTRICAL METALLIC TUBING ENCLOSURE
EPO	EMERGENCY POWER OFF
ENCL	ENCLOSURE
EW	ELECTRIC WATER HEATER
EXIST	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCCP	FIRE ALARM COMMAND CENTER
FATC	FIRE ALARM TERMINAL CABINET
FIR	FLOOR
FMC	FURNISHED BY MECHANICAL CONTRACTOR
FO	FIBER OPTIC
FOC	FIBER OPTIC TERMINAL CABINET
FWE	FURNISHED WITH EQUIPMENT
GFI	GROUND FAULT INTERRUPTER
GND,G	GROUND
HDA	HAND-OFF-AUTO
HACR	HEATING/AIR CONDITIONING-RATED
HID	HIGH INTENSITY DISCHARGE
HPP	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
HP	HORSEPOWER
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
JB	JUNCTION BOX
KWML	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MCC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
M-G	MOTOR GENERATOR
MOP	MAN DISTRIBUTION PANEL
MH	METAL HALIDE
MOD	MOTOR OPERATED DAMPER OR DOOR
MTD	MOUNTED
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NOT	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
PNL	PANEL
PH	PHASE
PCD	OWNER FURNISHED CONTRACTOR INSTALLED
PB	PUSHBUTTON
PE	PHOTOELECTRIC
PIC	PATCH PANEL
PP	POLYVINYL CHLORIDE CONDUIT
R	RELOCATED
RSC	RIGID STEEL CONDUIT
SCH	SCHEDULE
SEC	SECURITY
SW	SWITCH
SWR	SWITCHGEAR
TEL	TELEPHONE
TBB	TELEPHONE BACKBOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TS	TIME SWITCH
XMR	TRANSFER
XTR	TRANSFER
TIP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UPS	UNINTERRUPTIBLE POWER SUPPLY
UN	UNLESS OTHERWISE NOTED
V	VAPORPROOF
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
V	VOLT
VM	VOLTMETER
W	WATT
WMM	WATTMETER
WM	WATTMETER
WP	WEATHER PROOF

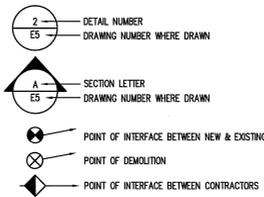
LEGEND NOTES

- THE LEGEND INDICATES STANDARD SYMBOLS AND ALL SYMBOLS MAY NOT BE USED ON THESE PLANS. HOWEVER, WHERE THE SYMBOL APPEARS ON THE PLANS IT SHALL BE PROVIDED AND INSTALLED ACCORDING TO PLANS AND SPECIFICATIONS.
- THE LETTER "WP" ADJACENT TO RECEPTACLE INDICATES A WEATHERPROOF COVER IS REQUIRED.
- THE LETTER "GFI" ADJACENT TO RECEPTACLE INDICATES A GROUND FAULT INTERRUPTING RECEPTACLE. FEED THROUGH CONFIGURATION IS NOT PERMITTED.

LINE TYPE LEGEND

---	EXISTING TO BE REMOVED
---	EXISTING TO REMAIN
---	NEW TO BE PROVIDED

DRAWING SYMBOLS



WALL RATING LEGEND

---	1 HOUR FIRE RATED PARTITION
---	1 HOUR RATED FIRE/SMOKE PARTITION
---	2 HOUR FIRE RATED PARTITION
---	SMOKE TIGHT CONSTRUCTION

NOTE TO REVIEWING AUTHORITY:
 THIS FACILITY IS FULLY SPRINKLERED.

EXISTING FIRE ALARM POINTS LIST*

ALARM INITIATING DEVICES	{	DUCT SMOKE DETECTOR - 21
	{	PRESSURE SWITCH - 7
	{	PHOTO SMOKE DETECTOR - 58
	{	PULL STATION-SINGLE ACTION - 56
	{	WATER FLOW DETECTOR - 12
ALARM INITIATING DEVICES	{	ANNUNCIATOR - 1
	{	SPEAKER/VISUAL - 169
	{	VISUAL ONLY - 11
SUPERVISORY DEVICES	{	FIRE PUMP - 1
	{	SPRINKLER TAMPER SWITCH - 21

*-DOES NOT INCLUDE PANELS, NACS, AND SHUT-DOWN RELAYS.

FIRE ALARM LEGEND

- PULL STATION (ON CENTERLINE MOUNTED 48" AFF WHERE EXISTING PULL STATIONS ARE TO BE REPLACED IN THE SAME LOCATION, THIS CONTRACTOR SHALL ADJUST THE HEIGHT TO 48" AFF AT CENTERLINE. PROVIDE ALL PULL STATIONS WITH STI ENCLOSURE)
- STROBE
BOTTOM OF DEVICE SHALL BE MOUNTED 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER
- HORN/STROBE
- SPEAKER/STROBE WITH MULTI-WATTAGE, MULTI-TAP VOICE TRANSFORMER. BOTTOM OF DEVICE SHALL BE MOUNTED 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER (WHEN WALL MOUNTED).
- HEAT DETECTOR CEILING MOUNTED
- SMOKE DETECTOR CEILING MOUNTED
- DUCT SMOKE DETECTOR DUCT MOUNTED
- FIRE ALARM CONTROL PANEL- UON MOUNT TOP OF ENCLOSURE 72" AFF
- FIRE ALARM ANNUNCIATOR PANEL- UON MOUNT TOP OF ENCLOSURE 66" AFF
- FIRE ALARM TERMINAL CABINET-UON, MOUNT TOP OF ENCLOSURE 66" AFF.
- FLOW SWITCH
- TAMPER SWITCH
- PRESSURE SWITCH
- SHUT-DOWN RELAY
- MAGNETIC DOOR HOLDER
- REMOTE ALARM INDICATOR WITH TEST SWITCH, FLUSH CEILING MOUNTED, (WALL MOUNTED, CENTER LINE 48" AFF IN MECHANICAL ROOMS).
- EF- EXHAUST FAN
- SEF- SMOKE EVACUATION FAN
- ASF- AIR SUPPLY FAN
- PUSH-BUTTON PRE-ACTION SYSTEM ABORT
- ◊ INDICATES AREA WITH LAY-IN GRID CEILING CONSIDERED ACCESSIBLE. AREA SHOWN IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
- ◊ INDICATES AREA WITH HARD (GYPSUM BOARD TYPE) CEILING CONSIDERED ACCESSIBLE. AREA SHOWN IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
- ◊ INDICATES CEILING IN THIS AREA IS EXPOSED. CONSIDERED INACCESSIBLE. AREA SHOWN IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
- VOICE/DATA OUTLET
- HALL CONTROL PANEL
- NOTIFICATION APPLIANCE CABINET
- 277/480V PANELBOARD.
- 120/208V PANELBOARD.
- SAFETY SWITCH
- DRY TIE TRANSFORMER
- DUPLEX RECEPTACLE. 20A, 125A
- HOMERUN CONDUIT AND CONDUCTORS TO DESIGNATED PANEL

UNIT PRICING LIST

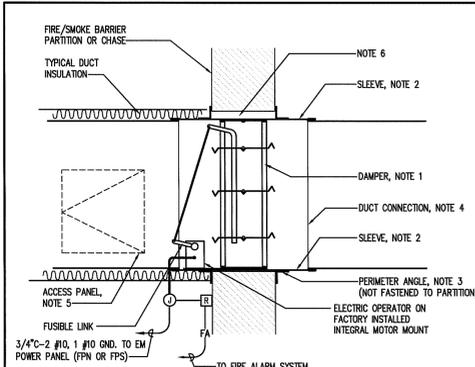
EACH BIDDER SHALL PROVIDE THE FOLLOWING UNIT PRICING INFORMATION		
ITEM NO.	UNIT PRICE TO INCLUDE L, M, O & P	DESCRIPTION (ALL ITEMS PER SPECS)
1	\$	FIRE ALARM PULL STATION W/OUTLET BOX, STI ENCLOSURE, 50' OF FIRE ALARM CABLE & CONDUIT
2	\$	CEILING MOUNTED SMOKE DETECTOR W/OUTLET BOX, 50' OF FIRE ALARM CABLE & CONDUIT
3	\$	DUCT TYPE SMOKE DETECTOR WITH REMOTE INDICATOR AND SHUTDOWN RELAY W/50' OF FIRE ALARM CABLE & CONDUIT
4	\$	CEILING MOUNTED RECESSED SPEAKER/STROBE, W/HOUSING BOX, 50' OF FIRE ALARM CABLE & CONDUIT
5	\$	WALL MOUNTED SPEAKER/STROBE W/OUTLET BOX, 50' OF FIRE ALARM CABLE & CONDUIT
6	\$	CEILING MOUNTED HEAT DETECTOR W/OUTLET BOX, 50' OF FIRE ALARM CABLE & CONDUIT
7	\$	DUCT TYPE SMOKE DETECTOR WITH REMOTE INDICATOR AND SHUTDOWN RELAY, BOX, 50' OF FIRE ALARM CABLE & CONDUIT
8	\$	SPRINKLER FLOW SWITCH, 50' OF FIRE ALARM CABLE & CONDUIT
9	\$	SPRINKLER TAMPER SWITCH, 50' OF FIRE ALARM CABLE & CONDUIT
10	\$	DOOR HOLD OPEN DEVICE, OUTLET BOX, 50' OF FIRE ALARM CABLE & CONDUIT
11	\$	24"x36" FIRE/SMOKE DAMPER WITH FIRE ALARM CONNECTIONS 50' OF FIRE ALARM CABLE AND CONDUIT, 2 HOUR FIRE RATED HINGED DOOR ACCESS HATCH WITH LOCKING PROVISIONS 36"x36"
12	\$	
13	\$	
14	\$	
15	\$	
16	\$	

EXISTING AIR HANDLING UNIT SCHEDULE

UNIT NO.	AREA SERVED	CFM	MOTOR HP	FIRE ALARM DEVICES
AHU-1	FIRST FLOOR SOUTH (PLAZA)	23,100	20	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-2	SECOND FLOOR SOUTH	25,200	20	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-3	THIRD FLOOR SOUTH	23,970	20	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-4	FOURTH FLOOR SOUTH	23,660	20	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-5	P3 (PRISON HOLD AREA)	2,110	2	(1) SUPPLY DUCT SMOKE DETECTOR AND SHUTDOWN RELAY
AHU-6	FIRST FLOOR NORTH	23,990	20	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-7	SECOND FLOOR NORTH	17,740	15	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-8	THIRD FLOOR NORTH	17,520	15	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-9	FOURTH FLOOR NORTH	16,900	20	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-10	FIFTH FLOOR NORTH	18,840	20	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-11	P3 NORTH DATA PROCESSING SOUTH HALF	7,500	10	(2) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-12	P3 NORTH DATA PROCESSING NORTH HALF	7,900	10	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
AHU-13	FOURTH FLOOR NORTH	10,440	7.5	(1) SUPPLY/(1) RETURN DUCT SMOKE DETECTORS AND SHUTDOWN RELAYS
RTU-1	FIFTH FL. - NORTH (AHU-10)		20	(1) SUPPLY DUCT SMOKE DETECTOR AND SHUTDOWN RELAY
RTU-2	FOURTH FL. - SOUTH (AHU-4)		25	(1) SUPPLY DUCT SMOKE DETECTOR AND SHUTDOWN RELAY

NOTE:

PROVIDE ARC FLASH LABELING ON ALL NEW PANELS. SPECIFICS FOR ARC FLASH LABELS SHALL BE PROVIDED BY ENGINEER AFTER SHOP DRAWINGS/SUBMITTALS ARE APPROVED.



- ### NOTES
- A VERTICAL COMBINATION FIRE/SMOKE DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAUGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR, NOT OUTSIDE THE PARTITION.
 - GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
 - PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1/2" X 1/2" X 1/4" GAUGE, TO PROVIDE 1/2" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
 - BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMOA LPS, FIG. 2-13. SEAL JOINTS.
 - ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK AND OPERATOR.
 - PROVIDE 1/4 TO 3/8 INCH CLEARANCE ON HEIGHT AND WIDTH.
 - ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH A 3" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.
 - INSTALLATION OF FIRE/SMOKE DAMPERS SHALL BE PERFORMED BY A QUALIFIED/LICENSED MECHANICAL CONTRACTOR. COORDINATE ALL WORK BETWEEN FIRE ALARM AND MECHANICAL.

- ### OPERATION
- FIRE DAMPER MODE
HIGH TEMPERATURE MELTS THE FUSIBLE LINK, CLOSING FIRE DAMPER.
 - SMOKE DAMPER MODE
ACTIVATED BY THE BUILDING FIRE ALARM SYSTEM TO CLOSE WHEN THE ZONE IN WHICH THE DAMPER IS LOCATED OR THE ASSOCIATED AIR HANDLING UNIT IS IN ALARM.

FIRE / SMOKE DAMPER DETAIL
 NOT TO SCALE

**LEON COUNTY COURTHOUSE
 NEW FIRE ALARM SYSTEM**
 LEON COUNTY
 TALLAHASSEE, FLORIDA

**ABBREVIATIONS, LEGEND
 AND GENERAL NOTES**

FILE: E0.01
 JOB NO.: 212-116
 DATE: 3/13/2013
 SCALE: 1=1
 DRAWN BY: DLG
 CHECKED BY: RKF
 SHEET NO.:

PARTIAL SPECIFICATIONS

SECTION 16000
PART 1 - GENERAL

1.1 SUMMARY

A. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO COMPLETE THE CONSTRUCTION OF THE ELECTRICAL SYSTEM.

1.2 WORK INCLUDED

A. THE WORK REQUIRED UNDER THIS DIVISION SHALL INCLUDE ALL MATERIALS, LABOR AND AUXILIARIES REQUIRED TO INSTALL A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM. THE ELECTRICAL SYSTEM WORK REQUIRED UNDER THIS DIVISION SHALL BE AS SPECIFIED HEREIN AND AS SHOWN ON PLANS.

B. DRAWINGS FOR THE WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY THE EXTENT, GENERAL ARRANGEMENT, AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS CONDUIT FITTINGS, ACCESS PANELS, SLEEVES, PULL AND JUNCTION BOXES MAY NOT BE SHOWN. INCLUDE SUCH ITEMS WHERE REQUIRED BY CODE, OTHER SECTIONS, OR FOR PROPER INSTALLATION OF THE WORK.

C. EQUIPMENT SPECIFICATIONS MAY NOT DEAL INDIVIDUALLY WITH EVERY PART, CONTROL, OR DEVICE, WHICH MAY BE REQUIRED TO PRODUCE THE EQUIPMENT PERFORMANCE SPECIFIED OR AS REQUIRED TO MEET THE EQUIPMENT WARRANTIES. INCLUDE SUCH ITEMS AS REQUIRED, WHETHER OR NOT SPECIFICALLY INDICATED.

D. COORDINATE WITH ALL TRADES IN SUBMITTAL OF SHOP DRAWINGS. SHOP DRAWINGS SHALL DETAIL SPACE CONDITIONS TO THE SATISFACTION OF ALL CONCERNED TRADES, SUBJECT TO FINAL REVIEW OF THE ENGINEER. IF ELECTRICAL WORK IS INSTALLED, BEFORE COORDINATING WITH OTHER TRADES, WHICH INTERFERES WITH WORK OF OTHER TRADES, MAKE ALL NECESSARY CHANGES TO CORRECT THE CONDITION AT NO ADDITIONAL COST TO THE OWNER.

1.3 CODES AND STANDARDS

- a. INSTALL ALL WORK IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING:
 - b. (SBC) FAC 99-3.047 STATE BUILDING CODE ADOPTED
 - c. (NFPA) NFPA 72, 2007 NATIONAL FIRE ALARM CODE
 - d. (NEC) NFPA 70, 2008 NATIONAL ELECTRICAL CODE
 - e. (NFPA) NFPA 101, 2009 LIFE SAFETY CODE
 - f. FAC 44-3.012 STANDARD OF THE NATIONAL FIRE PROTECTION ASSOCIATION ADOPTED.
 - g. (FBC) FLORIDA BUILDING CODE, 2010

B. STANDARDS OF THE FOLLOWING ASSOCIATIONS OR ORGANIZATIONS SHALL BE FOLLOWED AND APPLIED WHERE APPLICABLE.

- a. (UL) UNDERWRITERS LABORATORIES
- b. (IEEE) INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
- c. (NEMA) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- d. (FM) FACTORY MUTUAL

C. IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO COMPLY WITH THE APPLICABLE CODES, ORDINANCES, REGULATIONS, AND STANDARDS. WHERE DISCREPANCIES OCCUR, NOTIFY THE ENGINEER, IN WRITING, AND ASK FOR INTERPRETATION. CORRECT ANY INSTALLATION THAT FAILS TO COMPLY WITH THE APPLICABLE CODES AND STANDARDS AT NO ADDITIONAL COST TO THE OWNER.

1.4 PERMITS AND INSPECTIONS

A. OBTAIN AND MAKE ALL PAYMENT FOR PERMITS AND INSPECTIONS REQUIRED. AT THE COMPLETION OF THE PROJECT AND BEFORE FINAL ACCEPTANCE OF THE ELECTRICAL WORK, PROVIDE EVIDENCE OF FINAL INSPECTION AND APPROVAL BY THE AUTHORITIES HAVING JURISDICTION.

1.5 ACTIVE SERVICES

A. PROTECT EXISTING ACTIVE SERVICES, WATER, GAS, SEWER, ELECTRIC, WHEN ENCOUNTERED, AGAINST DAMAGE. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES WHICH ARE TO REMAIN. IF ACTIVE SERVICES ARE ENCOUNTERED WHICH REQUIRE RELOCATION, MAKE REQUEST TO AUTHORITIES WITH JURISDICTION FOR DETERMINATION OF PROCEDURES. WHERE EXISTING SERVICES ARE TO BE ABANDONED, TERMINATE THEM IN CONFORMANCE WITH REQUIREMENTS OF THE UTILITY OF MUNICIPALITY HAVING JURISDICTION.

1.6 TESTS AND DEMONSTRATIONS

A. TEST ALL SYSTEMS AND PLACE IN PROPER WORKING ORDER PRIOR TO DEMONSTRATING SYSTEMS TO THE OWNER.

B. PERFORM SUCH TESTS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THE SITE.

C. PRIOR TO ACCEPTANCE OF THE WORK, DEMONSTRATE TO THE OWNER ALL FEATURES AND FUNCTIONS OF ALL SYSTEMS, AND INSTRUCT THE OWNER IN THE PROPER OPERATION, CARE AND MAINTENANCE OF THE SYSTEMS AND EQUIPMENT.

D. ARRANGE WITH THE OWNER THE DATES AND TIMES FOR EACH DEMONSTRATION.

1.7 IDENTIFICATION

A. PROVIDE ENGRAVED LAMINATED NAMEPLATES ON THE FOLLOWING, LISTING THE DESIGNATED INFORMATION:

- 1. SAFETY SWITCHES, MOTOR STARTERS, VARIABLE FREQUENCY DRIVES, PANELS AND PANELBOARDS (WITH EQUIPMENT SERVED IDENTIFIED).
- 2. NAMEPLATES SHALL BE WHITE LETTERS ON BLACK BACKGROUND FOR NORMAL SYSTEM
- B. POWER WIRING SHALL HAVE CONDUCTORS COLOR Banded IN EACH JUNCTION AND PULL BOX
- C. CONTROL CIRCUIT WIRING SHALL BE IDENTIFIED WITH WIRE NUMBERS AT EACH TERMINATION.

1.8 DELIVERY AND STORAGE

A. HANDLE, STORE AND PROTECT EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WITH THE REQUIREMENTS OF NFPA B, APPENDIX I, TITLED "EQUIPMENT STORAGE AND MAINTENANCE DURING CONSTRUCTION". REPLACE DAMAGED OR DEFECTIVE ITEMS WITH NEW ITEMS.

1.9 ELECTRICAL CONNECTIONS TO EQUIPMENT

- A. PROVIDE POWER CIRCUIT AND CONTROL WIRING FOR ALL ELECTRICAL EQUIPMENT AND CONNECT COMPLETE UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.
- B. ALL CONNECTION SHALL BE TIGHTENED TO THE TORQUE VALUES RECOMMENDED BY THAT DEVICE MANUFACTURERS INSTRUCTIONS. IF THESE VALUES ARE NOT LISTED, TIGHTEN TO POUND-INCH OR POUND-FOOT VALUES RECOMMENDED BY UL STANDARD 488B, A SUMMARY OF WHICH MAY BE FOUND IN SECTION 110-14 OF THE NATIONAL ELECTRIC CODE HANDBOOK.

1.10 SUBMITTALS

- A. SUBMIT DATA CONSISTING OF SHOP DRAWINGS AND/OR CATALOGUE CUTS COMPLETE WITH TECHNICAL DATA NECESSARY TO EVALUATE THE MATERIAL OR EQUIPMENT. INCLUDE DIMENSIONS, WIRING DIAGRAMS, PERFORMANCE CURVES, RATINGS, CONTROL SEQUENCE, AND OTHER DESCRIPTIVE DATA NECESSARY TO DESCRIBE FULLY THE ITEM PROPOSED AND ITS OPERATING CHARACTERISTICS.
- B. DO NOT PURCHASE OR INSTALL EQUIPMENT REQUIRING SUBMITTAL UNTIL THE REVIEW PROCESS IS COMPLETE.

1.11 ACCEPTABLE PRODUCTS

A. USE ONLY NEW PRODUCTS MADE BY COMPANIES REGULARLY ENGAGED IN THE MANUFACTURE OF THE TYPE EQUIPMENT SPECIFIED. USE THE PRODUCTS OF A SINGLE MANUFACTURER FOR SIMILAR TYPE EQUIPMENT, I.E. SAFETY SWITCHES, PANELBOARDS, CONDUIT, CONDUCTORS AND CIRCUIT BREAKERS.

1.12 RECORD DRAWINGS

A. AT THE JOB SITE, MAINTAIN A SET OF PRINTS ON WHICH ARE RECORDED ALL FORMAL FIELD CHANGES AND OTHER PORTIONS OF THE WORK THAT VARY SIGNIFICANTLY FROM THE CONTRACT DOCUMENTS. INDICATE ACTUAL ROUTING OF ELECTRICAL FEEDERS.

B. DELIVER RECORD DRAWINGS TO THE OWNER IN THE QUANTITY AND MANNER REQUESTED.

C. FINAL ACCEPTANCE AND PAYMENT FOR THE PROJECT WILL NOT BE GIVEN UNTIL THESE DRAWINGS HAVE BEEN RECEIVED.

1.13 GUARANTEES

A. ALL MATERIALS AND LABOR SHALL BE UNCONDITIONALLY WARRANTED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION. SPECIFIC MANUFACTURER'S EQUIPMENT WARRANTIES IN EXCESS OF ONE (1) YEAR SHALL TAKE PRECEDENCE. MANUFACTURER'S WARRANTIES SHALL BE PROVIDED WHENEVER AVAILABLE AND POSSIBLE. ALL EQUIPMENT SHALL BE NEW AND UNUSED FROM THE FACTORY AND SHALL NOT BE MODIFIED OR REBUILT.

PART 2 - PRODUCTS

2.1 - OUTLET BOXES

GENERAL USE BOXES: GALVANIZED, PRESSED STEEL UNITS OF PROPER DEPTH AND GAUGE REQUIRED BY THE OUTLET LOCATION. EQUIP WITH PLASTER RING OR COVER AS NECESSARY.

ACCEPTABLE MANUFACTURERS: RACO OR STEEL CITY.

SPECIAL BOXES: GALVANIZED SHEET METAL OR CAST CONSTRUCTION AND SIZED IN ACCORDANCE WITH THE NEC BASED ON THE NUMBER OF CONDUCTORS AND SPLICES TO BE HOUSED. FOR SPECIAL SYSTEMS, USE BOXES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

2.2 CONDUIT

RIGID METALLIC CONDUIT (RMC): HOT DIPPED GALVANIZED STEEL CONFORMING TO FS WW-C581E AND UL 6.

ELECTRICAL METALLIC TUBING (EMT/THINWALL): GALVANIZED STEEL CONFORMING TO ASA C80.3, FS WW-C583 AND UL 797.

INTERMEDIATE METAL CONDUIT (IMC): HOT DIPPED GALVANIZED STEEL CONFORMING TO FS WW-C581E AND UL 1242.

FLEXIBLE METAL CONDUIT: SPIRAL WOUND, SQUARE- LOCKED, HOT-DIPPED GALVANIZED STEEL CONFORMING TO UL 1.

2.3 CONDUIT FITTINGS

RMC: THREADED, MALLEABLE IRON, HOT-DIPPED GALVANIZED OR CADMIUM PLATED. FITTINGS USED WITH COATED RMC SHALL HAVE A SIMILAR COATING.

EMT: COMPRESSION TYPE, MADE OF CADMIUM PLATED STEEL OR HOT-DIPPED GALVANIZED MALLEABLE IRON.

FLEXIBLE METAL: TWO SCREW, DOUBLE CLAMP MALLEABLE IRON, HOT-DIPPED GALVANIZED OR CADMIUM PLATED.

2.4 WIRE AND CABLE - 600 VOLT

ALL CONDUCTORS SHALL BE COPPER.

INSULATION: HEAT AND MOISTURE RESISTANT WITH A TEMPERATURE RATING OF AT LEAST 75 DEGREES (THIN, THIN) AND A 600 VOLT RATING UNLESS OTHERWISE INDICATED.

USE STRANDED CONDUCTOR ON ALL WIRING #10 AWG AND LARGER. ALL OTHER WIRING MAY BE SOLID.

COLOR CODE WIRING AS FOLLOWS:

120/208 VOLT, 3 PHASE, 4 WIRE	277/480 VOLT, 3 PHASE, 4 WIRE
NEUTRAL - WHITE	NEUTRAL - NATURAL GRAY
PHASE A - BLACK	PHASE A - BROWN
PHASE B - RED	PHASE B - ORANGE
PHASE C - BLUE	PHASE C - YELLOW
GROUND - GREEN	GROUND - GREEN

ALL OTHER COLORS SHALL BE RESERVED FOR AND ONLY USED FOR SWITCH LEADS, CONTROL CIRCUITS, COMMUNICATIONS WIRING, FIRE ALARM, ETC. USE DIFFERENT COLOR FOR DIFFERENT CIRCUIT TYPES.

2.5 GROUNDING

A. PROVIDE AN EQUIPMENT CONDUCTOR IN ALL RACEWAYS SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC).

B. BOND ALL BRANCH CIRCUIT DEVICES TO THE BUILDING GROUND SYSTEM BY MEANS OF THE GROUNDING CONDUCTOR INSTALLED IN EACH RACEWAY.

2.6 ANCHORS AND FASTENERS

A. USE ANCHORS AND FASTENERS OF A TYPE DESIGNED AND INTENDED FOR USE IN THE BASE MATERIAL TO WHICH THE MATERIAL OR SUPPORT IS TO BE ATTACHED, AND CAPABLE OF SUPPORTING THE INTENDED LOAD AND WITHSTANDING ANY ASSOCIATED STRESSES AND VIBRATIONS. DO NOT USE WOODEN PLUGS FOR FASTENING.

2.7 PANELBOARDS

A. ALL PANELBOARDS SHALL BE DEADFRONT CONSTRUCTION WITH COPPER BUSS BRACED FOR A MINIMUM 22,000 A.L.C. RATING, (UNLESS NOTED OTHERWISE). ENCLOSURES SHALL BE NEMA 1 LOCKABLE UNLESS OTHERWISE NOTED. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC BOLT-ON TYPE. ACCEPTABLE MANUFACTURERS ARE:

- SQ. D
- SIEMENS
- G.E.

2.8 DRY TYPE TRANSFORMERS

TRANSFORMERS SHALL BE ENCLOSED, VENTED DRY QUIET TYPE, NON-LINEAR LOAD RATED, (K-15), IMPEDANCE OF 5.13% 480V, DELTA, 3# PRIMARY TO 120/208V, 3# 4# SECONDARY. TRANSFORMER INSULATION CLASS TO BE 220C, TEMPERATURE RISE 115C ABOVE AMBIENT. TRANSFORMER SHALL HAVE ALUMINUM WINDINGS. TRANSFORMER SHALL BE U.L. LISTED. EFFICIENCIES SHALL BE: 1/4 LOAD = 96.38%, 1/2 LOAD = 97.6%, 3/4 LOAD = 97.77%, FULL LOAD = 97.67%.

ACCEPTABLE MANUFACTURERS ARE:
SQUARE D
SIEMENS
OUTLER-HAMMER

B. THIS CONTRACTOR SHALL PROVIDE A PERMANENT NAMEPLATE ON EACH PANEL TOUCHED OR AFFECTED BY THIS PROJECT SCOPE. THIS IDENTIFICATION NAMEPLATE SHALL IDENTIFY THE FEEDER AND BRANCH CIRCUIT COLOR CODES USED IN THE PANEL. PROVIDE COLOR CODING FOR ALL FEEDERS AND BRANCH CIRCUITS ALSO, AS FOLLOWS:

PHASE	120/208V	277/480V
A	BLACK	YELLOW
B	RED	BROWN
C	BLUE	ORANGE
NEUTRAL	WHITE	NATURAL GRAY
GROUND	GREEN	GREEN

2.9 RECEPTACLES, SWITCHES & PLATES:

RECEPTACLES, SWITCHES AND COVER PLATES SHALL BE VOLTAGE & AMPACITY APPLICABLE TO LOAD AND CIRCUIT. PROVIDE BRUSHED STAINLESS STEEL COVER PLATE AND IVORY DEVICES, (UNLESS NOTED OTHERWISE). ACCEPTABLE MANUFACTURERS ARE:
LEVITON
HUBBELL
PASS-SAYMORE

2.91 SAFETY SWITCHES:

ALL SAFETY SWITCHES SHALL BE THE HEAVY DUTY TYPE, FUSED OR NON-FUSED AS INDICATED ON PLANS. ENCLOSURE TYPE, (NEMA 1 OR NEMA 3R DEPENDING ON LOCATION) AS INDICATED ON PLANS. ACCEPTABLE MANUFACTURERS ARE:

- SQUARE D
- SIEMENS
- G.E.

2.92 COMBINATION MAGNETIC MOTOR STARTERS

PROVIDE FVNR, 3P MAGNETIC MOTOR STARTERS AS INDICATED ON PLANS. STARTERS SHALL HAVE H.O.A. START/STOP PUSH BUTTONS, RED/GREEN PILOT LIGHTS, DISCONNECT AND CONTROL TRANSFORMER. ENCLOSURE TYPE (NEMA 1 OR NEMA 3R DEPENDING ON LOCATION) MANUFACTURERS ARE: SQUARE D, G.E., SIEMENS.

2.93 CIRCUIT BREAKERS

PROVIDE CIRCUIT BREAKERS IN AMPACITY, POLES, AND A.L.C. RATINGS TO MATCH PANEL & CIRCUIT. CIRCUIT BREAKERS THAT ARE LARGER THAN 90 AMPS SHALL BE ADJUSTABLE ELECTRONIC TYPE WITH LSG SETTING.

2.94 FIRE ALARM SYSTEM:

SEE BOUND FIRE ALARM SYSTEM SPECIFICATIONS.

3.1 MINIMUM SIZES

A. CONDUIT: 3/4" FOR ALL INSTALLATIONS, UNLESS OTHERWISE NOTED.

B. WIRE: #12 AWG FOR ALL POWER AND LIGHTING CIRCUITS. SIGNAL AND CONTROL WIRING MAY BE SMALLER, AS INDICATED.

3.2 LOCATIONS AND DIMENSIONS

A. LOCATE ALL DEVICES AND EQUIPMENT WHERE SHOWN ON THE DRAWINGS. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE FROM FINISHED FLOOR TO THE CENTER OF THE DEVICE UNLESS OTHERWISE INDICATED.

3.3 WIRING METHODS

A. INSTALL ALL WIRING IN CONDUIT OR APPROVED RACEWAYS. PROVIDE NYLON PULL CORD IN EMPTY CONDUITS.

B. SET OUTLET BOXES SQUARE, LEVEL, AND FLUSH WITH FINISHED SURFACES. SECURE AND BRACE WORK IN SUCH A MANNER AS TO INSURE THAT OUTLET BOXES AND CONDUIT DO NOT BECOME DISLOCATED DURING THE CONCRETE PLACING OPERATIONS OR WHILE OTHER CONSTRUCTION WORK IS BEING DONE.

C. UNLESS OTHERWISE INDICATED, PROVIDE CONDUIT IN ACCORDANCE WITH THE FOLLOWING:

- 1. RIGID METAL CONDUIT (RMC): USE ANYWHERE FOR SERVICE ENTRANCE OR WHERE RUN EXPOSED. PVC: USE WHERE SHOWN ON THE DRAWINGS OR BELOW GRADE. WHERE CONDUITS EMERGE FROM SLAB.
- 2. TRANSITION TO METALLIC RACEWAY BELOW SLAB.
- 3. THIN WALL METAL (EMT): USE ANYWHERE EXCEPT:
 - 1. UNDERGROUND
 - 2. IN SLABS ON GROUND

D. USE FLEXIBLE STEEL CONDUIT WITH GROUND WIRE FOR FINAL 24" OF CONNECTION TO MOTORS OR EQUIPMENT SUBJECT TO VIBRATION. PROVIDE IN LIQUID-TITE FLEXIBLE CONDUIT IN OUTDOOR APPLICATIONS.

E. FIRMLY AND SECURELY FASTEN CONDUITS TO OR SUPPORT FROM THE BUILDING OR STRUCTURAL MEMBER OR EMBEDDED IN CONCRETE OR MASONRY. USE HANGERS AND SUPPORTS THAT ARE STANDARD CATALOG ITEMS OF A TYPE COMPATIBLE WITH AND SUITABLE FOR THE INTENDED USE. TWISTED WIRE HANGERS AND SUPPORTS ARE NOT ACCEPTABLE.

F. DO NOT PULL CONDUCTORS INTO CONDUITS UNTIL ALL WORK WHICH MAY CAUSE DAMAGE TO THE WIRES IS COMPLETED. INSTALL WIRE AND CABLES SO AS NOT TO DAMAGE THE INSULATION OR CABLE SHEATH. PULL ALL CONDUCTORS TO BE INSTALLED IN A RACEWAY TOGETHER.

G. KEEP CONDUCTOR SPLICES TO A MINIMUM. PROVIDE SPLICES AND TAPS WITH AT LEAST THE EQUIVALENT MECHANICAL STRENGTH AND INSULATION AS THE CONDUCTORS. PROVIDE SPLICE AND TAP DEVICE OF THE PROPER SIZE AND TYPE FOR THE USE AND COMPATIBLE WITH THE CONDUCTOR MATERIAL.

H. PROVIDE SUFFICIENT LENGTH OF CONDUCTORS WITHIN CABINETS AND OUTLET BOXES TO NEATLY TRAIN THE CONDUCTOR TO THE TERMINAL POINT WITH NO EXCESS. FASTEN THE CABLES TOGETHER IN NEAT BUNDLES WHEN THERE ARE MANY CONDUCTORS.

I. PROVIDE FIRE RESISTANT COMPOUND TO RESTORE FIRE AND SMOKE RATING WHEN PENETRATING A RATED WALL OR CEILING.

3.4 EQUIPMENT MOUNTING

A. INSTALL EQUIPMENT AS INDICATED OR AS APPROPRIATE. PROVIDE FASTENERS OR SUPPORTS SUFFICIENT IN SIZE AND QUANTITY TO SUBSTANTIALLY SECURE THE EQUIPMENT IN PLACE TO THE BUILDING STRUCTURE OR STRUCTURAL ELEMENT.

B. INSTALL THE EQUIPMENT PLUMB AND TRUE AS INTENDED AND SECURE. WHEN SEVERAL ITEMS OF EQUIPMENT ARE WALL OR RACK MOUNTED IN THE SAME AREA, LINE THEM UP VERTICALLY AND HORIZONTALLY ALONG WITH ANY ASSOCIATED RACEWAYS.

3.5 SLEEVES

A. WHERE ELECTRICAL CONDUITS PASS THROUGH WALLS, ROOFS, CEILING, OR FLOORS, SET SLEEVES FOR THEM WHEN THE FLOORS, WALLS, CEILING OR ROOFS ARE CONSTRUCTED. IF ANY HOLES ARE CUT IN FINISHED WORK WHERE SLEEVES HAVE BEEN OMITTED, USE A CONCRETE CORING MACHINE OR OTHER APPROVED METHOD AND ONLY WITH WRITTEN CONSENT OF THE ARCHITECT. CUT ALL SUCH HOLES CAREFULLY, NO LARGER THAN NECESSARY. COVER THESE HOLES ENTIRELY BY ESCUTCHEON PLATES WHEN WORK IS COMPLETED. PROVIDE SLEEVES MADE OF STEEL NO LIGHTER THAN 18 GAUGE.

B. WHERE CONDUITS PASS THROUGH SLEEVES IN EXTERIOR WALLS, CAULK THE ANNULAR SPACE WITH OAKUM AND FILL INSIDE AND OUT WITH A NON-HARDENING, WATERPROOF SEALANT FINISHED OFF FLUSH WITH BOTH FACES OF THE WALL.

C. PRIOR TO ANY WORK ON ROOF, VERIFY EXTENT OF ROOFING WARRANTIES WITH OWNER AND ARCHITECT. OBTAIN OWNER'S WRITTEN APPROVAL OF ROOFING WORK. WHERE CONDUITS PASS THROUGH SLEEVES IN THE ROOF, FLASH THE PENETRATION IN ACCORDANCE WITH PLATE 59, FIGURE C OF THE "ARCHITECTURAL SHEET METAL MANUAL" OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC., AND THE ROOFING MANUFACTURER'S RECOMMENDED PROCEDURES AND MATERIALS.

3.6 CUTTING AND PATCHING

A. CUT WALLS, FLOORS, PAVEMENT, ETC., AS REQUIRED FOR THE ELECTRICAL INSTALLATIONS. UNLESS OTHERWISE INDICATED, PATCH AND FINISH TO MATCH ADJACENT SURFACES AND IN ACCORDANCE WITH THE OTHER DIVISIONS OF THESE SPECIFICATIONS.

3.7 PROTECTION OF EQUIPMENT

A. DURING CONSTRUCTION, PROTECT ALL EQUIPMENT FROM INSULATION MOISTURE ABSORPTION AND METALLIC COMPONENT CORROSION BY APPROPRIATE USE OF STRIP HEATERS, LAMPS, COVERINGS, OR OTHER SUITABLE MEANS. APPLY PROTECTION IMMEDIATELY UPON RECEIVING THE PRODUCTS AND MAINTAIN CONTINUALLY.

C. KEEP PRODUCTS CLEAN BY ELEVATING ABOVE GROUND OR FLOOR AND BY USING SUITABLE COVERINGS. TAKE SUCH PRECAUTIONS AS ARE NECESSARY TO PROTECT APPARATUS AND MATERIALS FROM DAMAGE. FAILURE TO PROTECT MATERIALS IS SUFFICIENT CAUSE FOR REJECTION OF THE APPARATUS OR MATERIAL IN QUESTION.

D. PROTECT FACTORY FINISH FROM DAMAGE DURING CONSTRUCTION OPERATIONS AND UNTIL ACCEPTANCE OF THE PROJECT. SATISFACTORILY RESTORE ANY FINISHES THAT BECOME STAINED OR DAMAGED.

SEAL

Pinnacle Engineering Group, P.A.
Pinnacle Engineering Group, P.A.
11111 W. WINDY HILL ROAD
TALLAHASSEE, FLORIDA 32310
TEL: 904-833-1111 FAX: 904-833-1111
www.pinnacle-engineering.com

DATE

REV# DESCRIPTION

LEON COUNTY COURTHOUSE
NEW FIRE ALARM SYSTEM
LEON COUNTY
TALLAHASSEE, FLORIDA

DRAWING TITLE: **PARTIAL SPECIFICATIONS**

FILE: E0.02

JOB NO.: 212-116

DATE: 3/13/2013

SCALE: 1=1

DRAWN BY: DLG

CHECKED BY: RKF

SHEET No.: **E0.02**

14-112-116 Leon Cty On the Alarm (E) 02.dwg, 3/13/2013 3:22:53 PM, hatched

WALL RATING LEGEND	
---	1 HOUR FIRE RATED PARTITION
---	1 HOUR RATED FIRE/SMOKE PARTITION
---	2 HOUR FIRE RATED PARTITION
---	SMOKE TIGHT CONSTRUCTION

- WORK NOTES:**
- PROVIDE A NEW SHUT-DOWN RELAY AND ALL WIRING, CONDUIT, ENCLOSURE, AND RELATED IN THE CONTROLLER FOR THE FIRE ALARM SYSTEM GENERAL ALARM TO SHUT-DOWN (DISABLE) THIS EQUIPMENT.
 - PROVIDE AN ADDRESSABLE MODULE FOR EXISTING DEVICE TO FUNCTION ON NEW FIRE ALARM SYSTEM.
 - EXISTING CEILING-MOUNTED SMOKE DETECTORS AND CORRESPONDING BELOW-FLOOR SMOKE DETECTORS IN THE MAIN COMPUTER ROOM ARE CONNECTED ON THE LOAD-SIDE OF THE HALON SYSTEM AND ARE NOT PART OF THIS PROJECT.
 - PROVIDE A NEW SHUT-DOWN RELAY AND RELATED WIRING AS REQUIRED TO TURN HVAC EQUIPMENT OFF UPON A GENERAL ALARM OF THE FIRE ALARM SYSTEM.
 - PROVIDE A NEW SMOKE DETECTOR LOCATED A MINIMUM OF 4- FEET FROM THE SUPPLY AIR VENT.
 - PROVIDE (1) 20-1 #10 & 1 #10 N & 1 #10 G TO PANEL AND CIRCUIT INDICATED FOR SERVICE TO NEW FIRE ALARM SYSTEM COMPONENT, REFER TO PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.
 - REMOVE EXISTING FACP'S AND PROVIDE NEW EMERGENCY POWER CIRCUITS TO FEED NEW FACP'S.
 - PROVIDE MANUAL/AUTO CONTROL SWITCH IN BALIFFS MONITORING ROOM. PROVIDE INTERCONNECTION CONDUITS/CONDUCTORS. (FIELD VERIFY STARTER LOCATION) EXISTING FAN OPERATION SHALL NOT BE CIRCUMVENTED.
 - PROVIDE NEW CONNECTIONS TO EXISTING DRY PIPE SPRINKLER SYSTEM PRESSURE SWITCHES AND TAMPER SWITCHES.
 - PROVIDE MONITORING OF FIRE PUMP CONTROLLER PHASE LOSS, PHASE REVERSAL AND POWER LOSS.
 - PROVIDE MONITORING OF FIRE SPRINKLER SYSTEM COMPRESSORS CONTROLLER PHASE LOSS, PHASE REVERSAL AND POWER LOSS.
 - REPLACE EXISTING DEVICE WITH NEW COMPATIBLE WITH NEW FIRE ALARM SYSTEM.
 - NO SHUT-DOWN RELAY REQUIRED.

DATE: _____

DESCRIPTION: _____

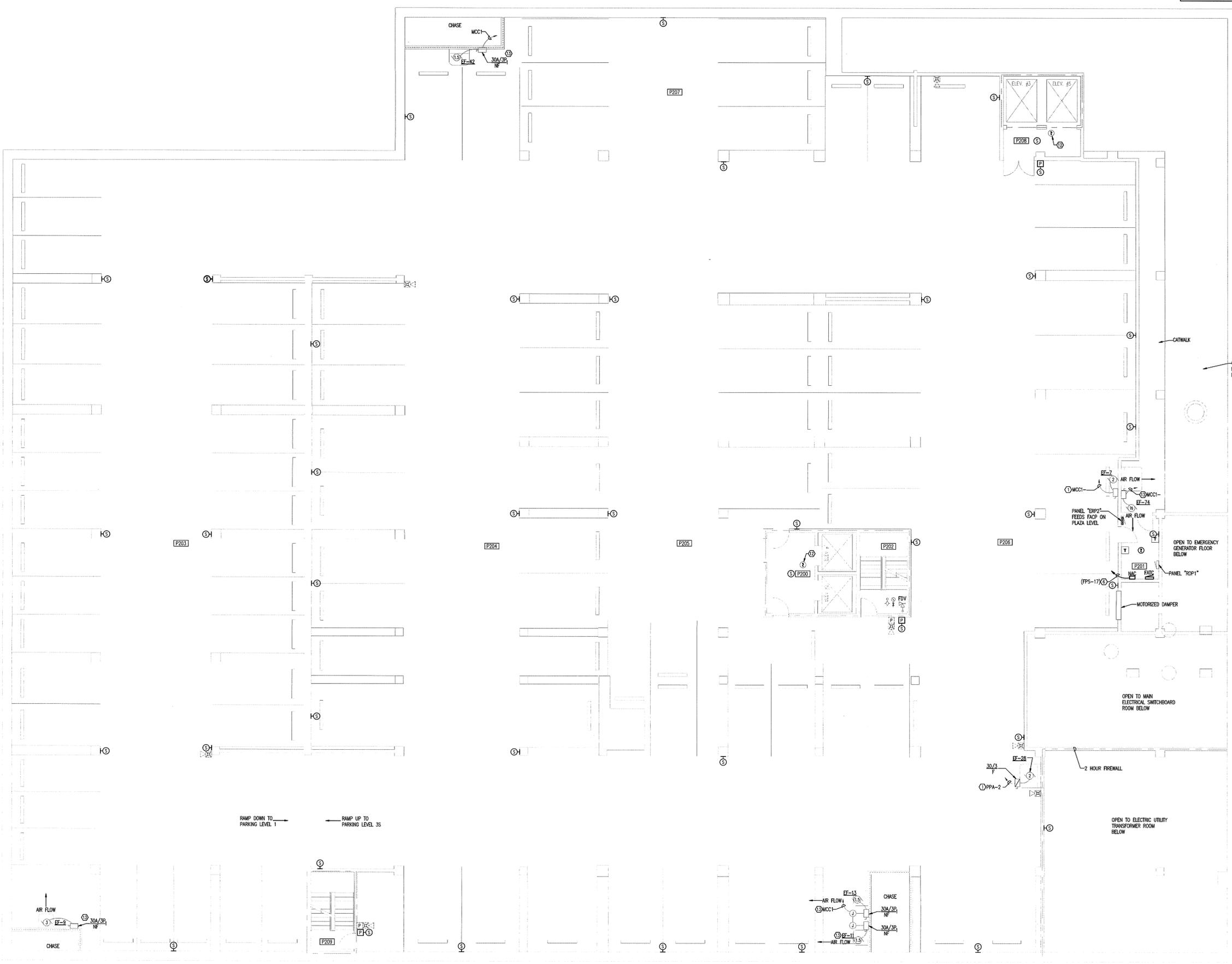
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**LEON COUNTY COURTHOUSE
NEW FIRE ALARM SYSTEM**
LEON COUNTY
TALLAHASSEE, FLORIDA

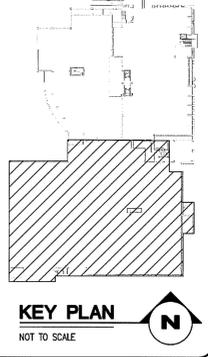
DRAWING TITLE: **PARKING LEVEL 2
EXISTING CONDITIONS/NEW WORK
FLOOR PLAN**

FILE: E1.P2
JOB NO.: 212-116
DATE: 3/13/2013
SCALE: 1"=1'
DRAWN BY: DLG
CHECKED BY: RKF
SHEET NO.: _____

E1.P2



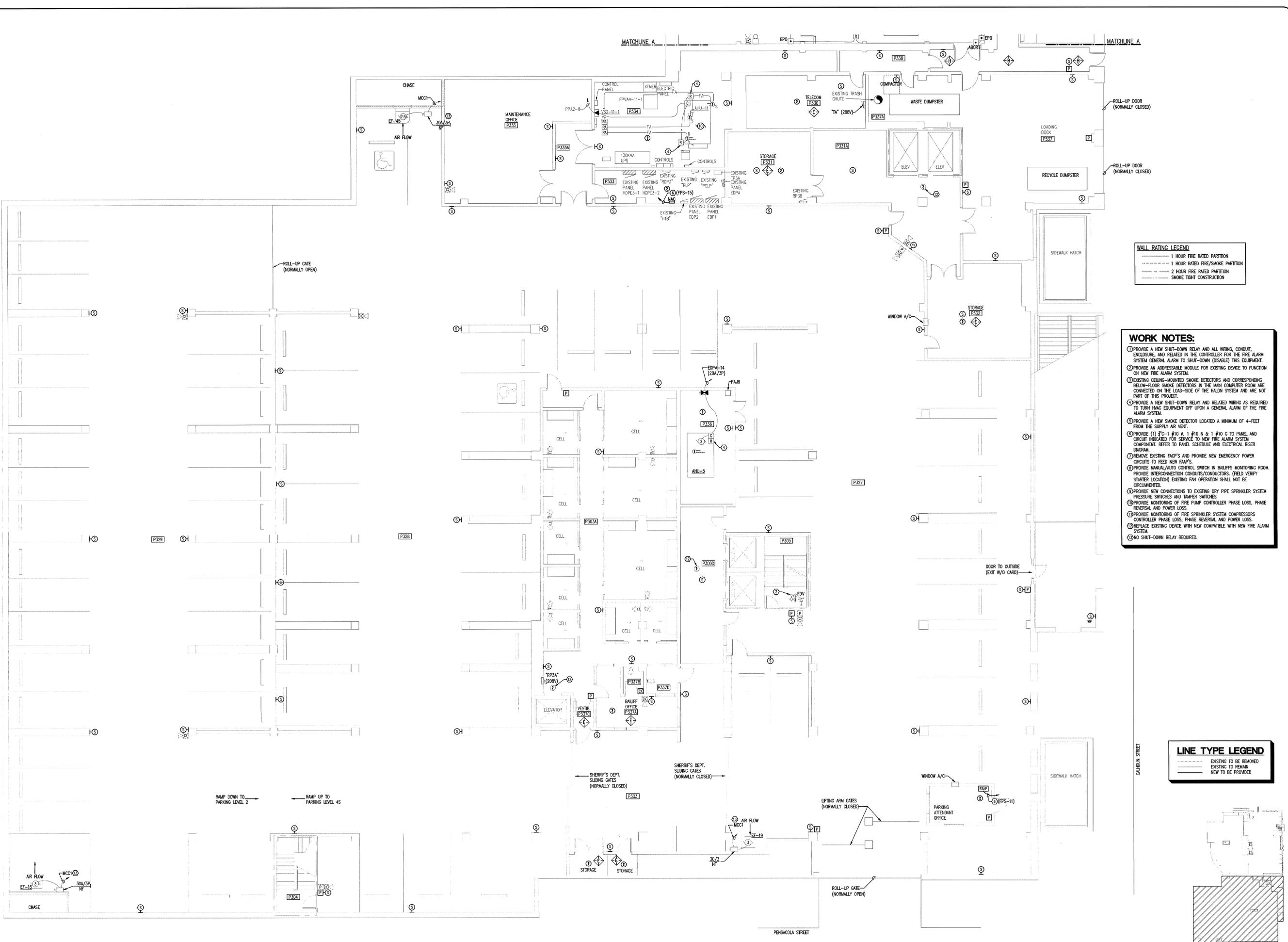
LINE TYPE LEGEND	
---	EXISTING TO BE REMOVED
---	EXISTING TO REMAIN
---	NEW TO BE PROVIDED



PARKING LEVEL 2 - EXISTING CONDITIONS/NEW WORK - FLOOR PLAN
SCALE: 1/8"=1'-0"



P:\212-116 Leon County Courthouse\EL.P2.dwg, 3/13/2013 3:24:48 PM, hachad



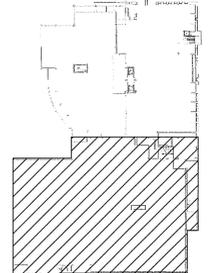
WALL RATING LEGEND

(Solid line)	1 HOUR FIRE RATED PARTITION
(Dashed line)	1 HOUR RATED FIRE/SMOKE PARTITION
(Dotted line)	2 HOUR FIRE RATED PARTITION
(Thick solid line)	SMOKE TIGHT CONSTRUCTION

- WORK NOTES:**
1. PROVIDE A NEW SHUT-DOWN RELAY AND ALL WIRING, CONDUIT, ENCLOSURE, AND RELATED IN THE CONTROLLER FOR THE FIRE ALARM SYSTEM GENERAL ALARM TO SHUT-DOWN (DISABLE) THIS EQUIPMENT ON NEW FIRE ALARM SYSTEM.
 2. PROVIDE AN ADDRESSABLE MODULE FOR EXISTING DEVICE TO FUNCTION ON NEW FIRE ALARM SYSTEM.
 3. EXISTING CEILING-MOUNTED SMOKE DETECTORS AND CORRESPONDING BELOW-FLOOR SMOKE DETECTORS IN THE MAIN COMPUTER ROOM ARE CONNECTED ON THE LOAD-SIDE OF THE HALON SYSTEM AND ARE NOT PART OF THIS PROJECT.
 4. PROVIDE A NEW SHUT-DOWN RELAY AND RELATED WIRING AS REQUIRED TO TURN HVAC EQUIPMENT OFF UPON A GENERAL ALARM OF THE FIRE ALARM SYSTEM.
 5. PROVIDE A NEW SMOKE DETECTOR LOCATED A MINIMUM OF 4- FEET FROM THE SUPPLY AIR VENT.
 6. PROVIDE (1) 1/2" x 1/2" #10 N & 1 #10 G TO PANEL AND CIRCUIT INDICATED FOR SERVICE TO NEW FIRE ALARM SYSTEM COMPONENT. REFER TO PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.
 7. REMOVE EXISTING FACP'S AND PROVIDE NEW EMERGENCY POWER CIRCUITS TO FEED NEW FACP'S.
 8. PROVIDE MANUAL/AUTO CONTROL SWITCH IN BALIFFS MONITORING ROOM. PROVIDE INTERCONNECTION CONDUITS/CONDUCTORS. FIELD VERIFY STARTER LOCATION) EXISTING FAN OPERATION SHALL NOT BE CIRCUMVENTED.
 9. PROVIDE NEW CONNECTIONS TO EXISTING DRY PIPE SPRINKLER SYSTEM PRESSURE SWITCHES AND TRAMPER SWITCHES.
 10. PROVIDE MONITORING OF FIRE PUMP CONTROLLER PHASE LOSS, PHASE REVERSAL AND POWER LOSS.
 11. PROVIDE MONITORING OF FIRE SPRINKLER SYSTEM COMPRESSORS CONTROLLER PHASE LOSS, PHASE REVERSAL AND POWER LOSS.
 12. REPLACE EXISTING DEVICE WITH NEW COMPATIBLE WITH NEW FIRE ALARM SYSTEM.
 13. NO SHUT-DOWN RELAY REQUIRED.

LINE TYPE LEGEND

(Dashed line)	EXISTING TO BE REMOVED
(Solid line)	EXISTING TO REMAIN
(Thick solid line)	NEW TO BE PROVIDED



PARKING LEVEL 3 SOUTH - EXISTING CONDITIONS/NEW WORK - FLOOR PLAN
SCALE: 1/8"=1'-0"

**LEON COUNTY COURTHOUSE
NEW FIRE ALARM SYSTEM
LEON COUNTY
TALLAHASSEE, FLORIDA**

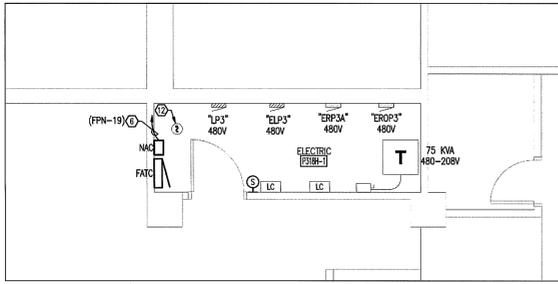
**PARKING LEVEL 3 SOUTH
EXISTING CONDITIONS/NEW WORK
FLOOR PLAN**

DATE	
REV	DESCRIPTION

FILE: E1.P3S
 JOB NO.: 212-116
 DATE: 3/13/2013
 SCALE: 1=1
 DRAWN BY: DLG
 CHECKED BY: RKF
 SHEET No.:

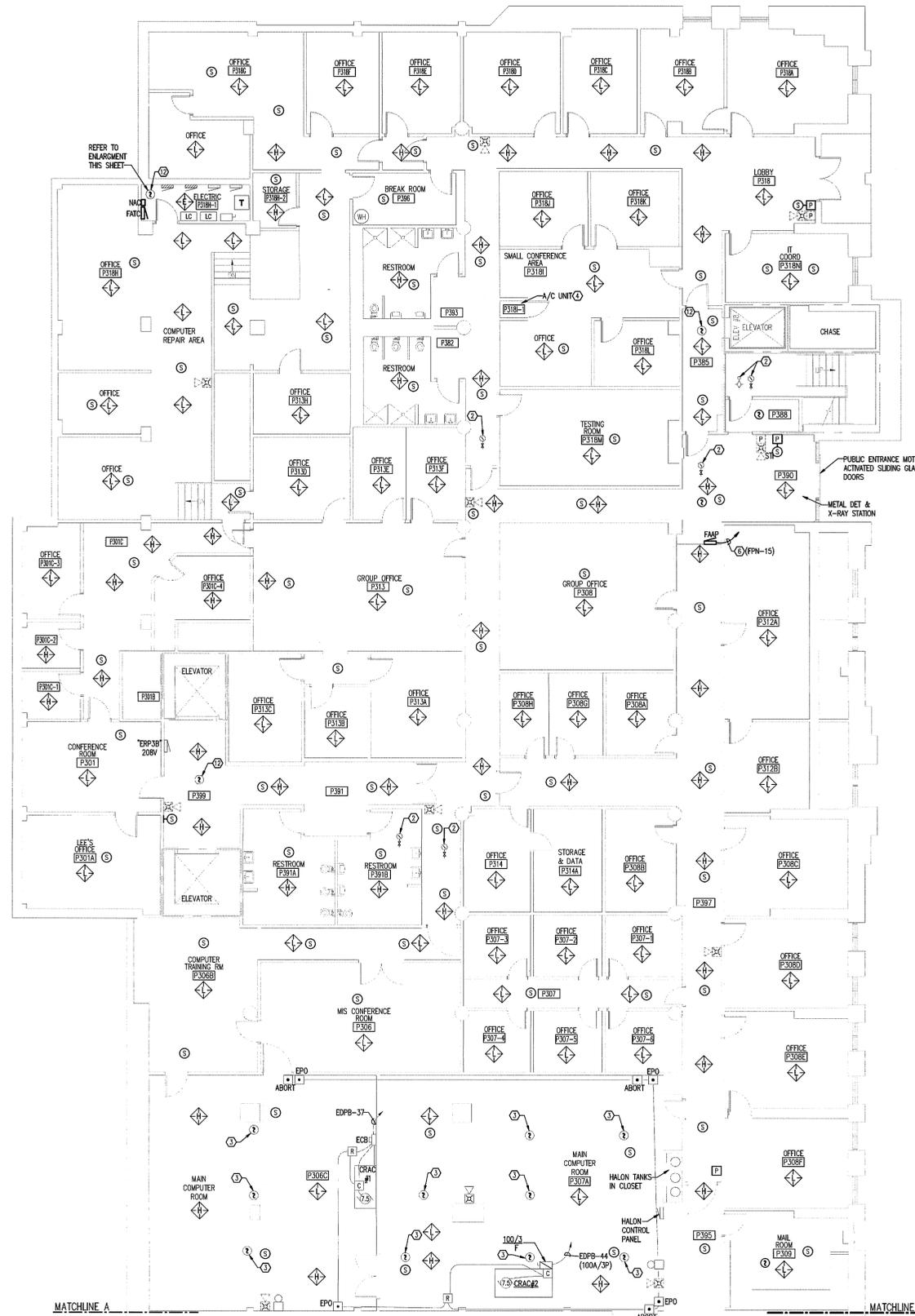
E1.3PS

M:\12-116 Leon CTY Ct Hm Admin\EL.P3N S.Awp_3/13/2013 3:26:23 PM - Ruckel



ENLARGED ELECTRIC ROOM

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



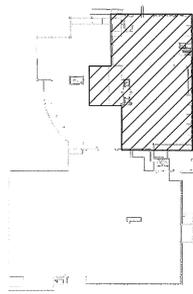
- WORK NOTES:**
- PROVIDE A NEW SHUT-DOWN RELAY AND ALL WIRING, CONDUIT, ENCLOSURE AND RELATED IN THE CONTROLLER FOR THE FIRE ALARM SYSTEM GENERAL ALARM TO SHUT-DOWN (DISABLE) THIS EQUIPMENT.
 - PROVIDE AN ADDRESSABLE MODULE FOR EXISTING DEVICE TO FUNCTION ON NEW FIRE ALARM SYSTEM.
 - EXISTING CEILING-MOUNTED SMOKE DETECTORS AND CORRESPONDING BELOW-FLOOR SMOKE DETECTORS IN THE MAIN COMPUTER ROOM ARE CONNECTED ON THE LOAD-SIDE OF THE HALON SYSTEM AND ARE NOT PART OF THIS PROJECT.
 - PROVIDE A NEW SHUT-DOWN RELAY AND RELATED WIRING AS REQUIRED TO TURN INAO EQUIPMENT OFF UPON A GENERAL ALARM OF THE FIRE ALARM SYSTEM.
 - PROVIDE A NEW SMOKE DETECTOR LOCATED A MINIMUM OF 4- FEET FROM THE SUPPLY AIR VENT.
 - PROVIDE (1) 20-1 #10 & 1 #10 N & 1 #10 G TO PANEL AND CIRCUIT INDICATED FOR SERVICE TO NEW FIRE ALARM SYSTEM COMPONENT. REFER TO PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.
 - REMOVE EXISTING FACP'S AND PROVIDE NEW EMERGENCY POWER CIRCUITS TO FEED NEW FACP'S.
 - PROVIDE MANUAL/AUTO CONTROL SWITCH IN BALIFFS MONITORING ROOM. PROVIDE INTERCONNECTION CONDUITS/CONDUCTORS. (FIELD VERIFY STARTER LOCATION) EXISTING FAN OPERATION SHALL NOT BE DOCUMENTED.
 - PROVIDE NEW CONNECTIONS TO EXISTING DRY PIPE SPRINKLER SYSTEM PRESSURE SWITCHES AND TAMPER SWITCHES.
 - PROVIDE MONITORING OF FIRE PUMP CONTROLLER PHASE LOSS, PHASE REVERSAL AND POWER LOSS.
 - PROVIDE MONITORING OF FIRE SPRINKLER SYSTEM COMPRESSORS CONTROLLER PHASE LOSS, PHASE REVERSAL AND POWER LOSS.
 - REPLACE EXISTING DEVICE WITH NEW COMPATIBLE WITH NEW FIRE ALARM SYSTEM.
 - NO SHUT-DOWN RELAY REQUIRED.

WALL RATING LEGEND

---	1 HOUR FIRE RATED PARTITION
---	1 HOUR RATED FIRE/SMOKE PARTITION
---	2 HOUR FIRE RATED PARTITION
---	SMOKE TIGHT CONSTRUCTION

LINE TYPE LEGEND

---	EXISTING TO BE REMOVED
---	EXISTING TO REMAIN
---	NEW TO BE PROVIDED



PARKING LEVEL 3 NORTH - EXISTING CONDITIONS/NEW WORK - FLOOR PLAN

SCALE: 1/8"=1'-0"



**LEON COUNTY COURTHOUSE
NEW FIRE ALARM SYSTEM**
LEON COUNTY
TALLAHASSEE, FLORIDA

**PARKING LEVEL 3 NORTH
EXISTING CONDITIONS/NEW WORK
FLOOR PLAN**

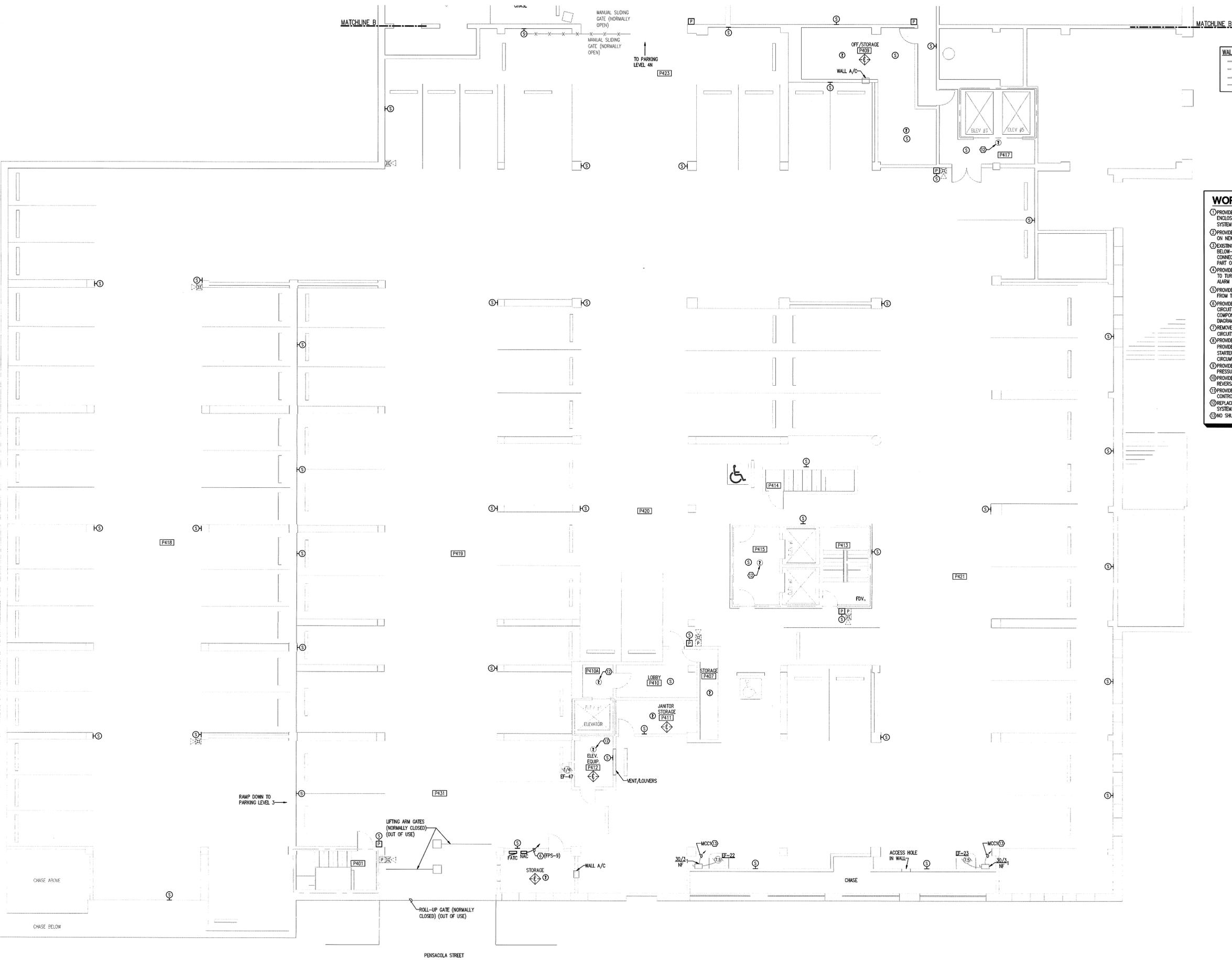
FILE:	E1.P3N
JOB NO.:	212-116
DATE:	3/13/2013
SCALE:	1=1
DRAWN BY:	DLG
CHECKED BY:	RKF
SHEET NO.:	

E1.P3N

Pinnacle Engineering Group, P.A.
TALLAHASSEE, FLORIDA 32309
www.pinnacleeng.com

DATE	
DESCRIPTION	

14-12-145 Leon Cty Of the alarm/E1.P3N 5.dwg, 3/13/2013 2:24:04 PM, Ratched



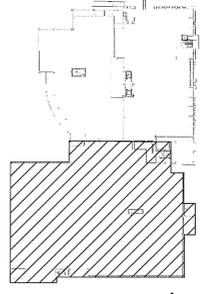
WALL RATING LEGEND

(Symbol: Dashed line)	1 HOUR FIRE RATED PARTITION
(Symbol: Dotted line)	1 HOUR RATED FIRE/SMOKE PARTITION
(Symbol: Solid line)	2 HOUR FIRE RATED PARTITION
(Symbol: Dash-dot line)	SMOKE TIGHT CONSTRUCTION

- WORK NOTES:**
- PROVIDE A NEW SHUT-DOWN RELAY AND ALL WIRING, CONDUIT, ENCLOSURE, AND RELATED IN THE CONTROLLER FOR THE FIRE ALARM SYSTEM GENERAL ALARM TO SHUT-DOWN (DISABLE) THIS EQUIPMENT.
 - PROVIDE AN ADDRESSABLE MODULE FOR EXISTING DEVICE TO FUNCTION ON NEW FIRE ALARM SYSTEM.
 - EXISTING CEILING-MOUNTED SMOKE DETECTORS AND CORRESPONDING BELOW-FLOOR SMOKE DETECTORS IN THE MAIN COMPUTER ROOM ARE CONNECTED ON THE LOAD-SIDE OF THE HALON SYSTEM AND ARE NOT PART OF THIS PROJECT.
 - PROVIDE A NEW SHUT-DOWN RELAY AND RELATED WIRING AS REQUIRED TO TURN HVAC EQUIPMENT OFF UPON A GENERAL ALARM OF THE FIRE ALARM SYSTEM.
 - PROVIDE A NEW SMOKE DETECTOR LOCATED A MINIMUM OF 4- FEET FROM THE SUPPLY AIR VENT.
 - PROVIDE (1) 3/4" x 1/2" x 1/2" #10 N & 1 #10 G TO PANEL AND CIRCUIT INDICATED FOR SERVICE TO NEW FIRE ALARM SYSTEM COMPONENT. REFER TO PANEL SCHEDULE AND ELECTRICAL RISER DIAGRAM.
 - REMOVE EXISTING FACP'S AND PROVIDE NEW EMERGENCY POWER CIRCUITS TO FEED NEW FAAP'S.
 - PROVIDE MANUAL/AUTO CONTROL SWITCH IN BAILEYS MONITORING ROOM. PROVIDE INTERCONNECTION CONDUITS/CONDUCTORS. (FIELD VERIFY STARTER LOCATION) EXISTING FAN OPERATION SHALL NOT BE CIRCUMVENTED.
 - PROVIDE NEW CONNECTIONS TO EXISTING DRY PIPE SPRINKLER SYSTEM PRESSURE SWITCHES AND TAMPER SWITCHES.
 - PROVIDE MONITORING OF FIRE PUMP CONTROLLER PHASE LOSS, PHASE REVERSAL AND POWER LOSS.
 - PROVIDE MONITORING OF FIRE SPRINKLER SYSTEM COMPRESSORS CONTROLLER PHASE LOSS, PHASE REVERSAL AND POWER LOSS.
 - REPLACE EXISTING DEVICE WITH NEW COMPATIBLE WITH NEW FIRE ALARM SYSTEM.
 - NO SHUT-DOWN RELAY REQUIRED.

LINE TYPE LEGEND

(Symbol: Dashed line)	EXISTING TO BE REMOVED
(Symbol: Dotted line)	EXISTING TO REMAIN
(Symbol: Solid line)	NEW TO BE PROVIDED



PARKING LEVEL 4 SOUTH - EXISTING CONDITIONS/NEW WORK - FLOOR PLAN
 SCALE: 1/8"=1'-0"

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REV#	DESCRIPTION	DATE

LEON COUNTY COURTHOUSE
NEW FIRE ALARM SYSTEM
 LEON COUNTY
 TALLAHASSEE, FLORIDA

DRAWING TITLE:
PARKING LEVEL 4 SOUTH
EXISTING CONDITIONS/NEW WORK
FLOOR PLAN

FILE:	E1.P45
JOB NO.:	212-116
DATE:	3/13/2013
SCALE:	1=1
DRAWN BY:	DLG
CHECKED BY:	RKF
SHEET NO.:	

E1.P45

M:\212-116 Leon CTY CH Fire Alarm\EL.P45.dwg, 3/13/2013 3:25:46 PM, Richard