

GENERAL	
SYMBOL	DESCRIPTION
	SHEET NOTE CONVENTION: REFERENCED SHEET NOTE GENERAL SHEET NOTE
	FEEDER IDENTIFICATION TAG FEEDER NUMBER
	DETAIL REFERENCE DETAIL NUMBER SHEET WHERE DETAIL APPEARS
	SECTION REFERENCE SECTION LETTER SHEET WHERE SECTION APPEARS
	LINE WORK CONVENTION: NEW OR REINSTALLED ITEM
	ITEM TO BE DEMOLISHED
	EXISTING ITEM TO REMAIN
	FUTURE ITEM
	EXISTING ITEM TO BE RELOCATED
	CONDUIT/FEEDER LINE CONVENTION: CONCEALED UNDERGROUND OR CONCEALED IN FLOOR EXPOSED FLEXIBLE CONDUIT
	CIRCUITING CONVENTION CIRCUIT NUMBER(S) PANEL BRANCH CIRCUIT HOMERUN TO PANELBOARD NUMBER OF MARKS INDICATE NUMBER OF CONDUCTORS IN RACEWAY, NOT COUNTING GROUNDING CONDUCTORS. (ABSENCE OF MARKS INDICATE TWO CONDUCTORS, PLUS REQUIRED GROUNDS) NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS UNSWITCHED CONDUCTORS SHOWN ON HOMERUN SIDE OF NEUTRAL NEUTRAL SWITCHED CONDUCTORS SHOWN ON LOAD SIDE OF NEUTRAL

SHEET INDEX	
E0.01	LEGEND AND ABBREVIATIONS
E0.02	LIGHTING FIXTURE AND PANEL SCHEDULES
E0.03	PANEL SCHEDULES
E0.04	PANEL SCHEDULES
E0.05	PANEL SCHEDULES
E1.01	SITE PLAN - ELECTRICAL
E1.10	OVERALL PLANS
E2.10	FIRST FLOOR - LIGHTING
E2.20	SECOND FLOOR - LIGHTING
E3.10	FIRST FLOOR - POWER
E3.20	SECOND FLOOR - POWER
E4.10	FIRST FLOOR - SPECIAL SYSTEMS
E4.20	SECOND FLOOR - SPECIAL SYSTEMS
E5.01	ENLARGED PLANS
E5.02	ENLARGED PLANS
E6.01	ACS DETAILS
E6.02	CCTV DIAGRAM
E6.03	DETAILS & DIAGRAMS
E7.01	TELECOM ONE-LINE DIAGRAM
E8.01	POWER ONE-LINE DIAGRAM

ABBREVIATIONS	
ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
APPROX	APPROXIMATE
AHJ	AUTHORITY HAVING JURISDICTION
BAS	BUILDING AUTOMATION SYSTEM
CKT	CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION
CMH	COMMUNICATIONS MANHOLE
C	CONDUIT ONLY
C.O.	CONDUIT ONLY
CU	COPPER
(D)	DEMOLISH
DB	DECIBEL
EL	EMERGENCY LIGHT
ELU	EMERGENCY LIGHTING UNIT
ENL	EMERGENCY NIGHT LIGHT
(E)	EXISTING
(F)	FUTURE
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FO	FIBER OPTIC
FOPP	FIBER OPTIC PATCH PANEL
FSD	FIRE/SMOKE DAMPER
Hz	FREQUENCY
HP	HORSEPOWER
IAW	IN ACCORDANCE WITH
K	KELVIN
KVA	KILO VOLT-AMPS
KW	KILOWATT
LCP	LIGHTING CONTROL PANEL
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CONTROL PANEL
MDS	MAIN DISTRIBUTION SWITCHBOARD
MIN	MINIMUM
MM	MULTIMODE FIBER OPTIC CABLE
MTR	MAIN TELECOM ROOM
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NORMALLY CLOSED
NO	NORMALLY OPEN
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OFC	OPTICAL FIBER CABLE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PA	PUBLIC ADDRESS
PH	PHASE (ELECTRICAL)
PLC	PROGRAMMABLE LOGIC CONTROLLER
PMCS	POWER MONITORING CONTROL SYSTEM
SM	SINGLEMODE FIBER OPTIC CABLE
SMR	SURFACE MOUNTED RACEWAY
SPD	SURGE PROTECTIVE DEVICE
TELECOM	TELECOMMUNICATION
TR	TELECOMMUNICATION ROOM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VR	VANDAL RESISTANT
VSD	VARIABLE SPEED DRIVE
VAC	VOLTS (ALTERNATING CURRENT)
VDC	VOLTS (DIRECT CURRENT)
V	VOLTS OR VOLTAGE
W	WATT
WP	WEATHERPROOF
WG	WIRE GUARD

LIGHTING	
SYMBOL	DESCRIPTION
	LIGHTING FIXTURE, LINEAR LAMP(S)
	LIGHTING FIXTURE - WALL MOUNTED
	LIGHTING FIXTURE - SURFACE OR PENDANT MOUNTED
	LIGHTING FIXTURE - RECESS MOUNTED
	LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER CIRCUIT, NIGHT LIGHT
	LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER CIRCUIT
	EXIT FIXTURE - WALL MOUNTED SHADED AREA(S) DENOTE FACE(S) OF SIGN, ARROWS AS NOTED (FIXTURE TYPE EX)
	EXIT FIXTURE - CEILING MOUNTED SHADED AREA(S) DENOTE FACE(S) OF SIGN, ARROWS AS NOTED (FIXTURE TYPE EX)
	EMERGENCY LIGHTING UNIT - WALL MOUNTED (FIXTURE TYPE XA)
	EMERGENCY LIGHTING UNIT - CEILING MOUNTED (FIXTURE TYPE XA)
	SITE LIGHTING - POLE MOUNTED
	SINGLE POLE SWITCH
	THREE-WAY SWITCH
	FOUR-WAY SWITCH
	SWITCH FOR FIXTURES MARKED 'a'
	DIMMER SWITCH
	KEYED SWITCH
	MOMENTARY SWITCH
	OCCUPANCY SENSOR/SWITCH
	PILOT LIGHTED SWITCH
	PHOTOCELL
	OCCUPANCY SENSOR - WALL MOUNTED
	OCCUPANCY SENSOR - CEILING MOUNTED
	LOW VOLTAGE SWITCH(ES) FOR FIXTURES MARKED 'a', 'b', 'c' AS NOTED
	KEYED LOW VOLTAGE SWITCH(ES) FOR FIXTURES MARKED 'a', 'b', 'c', ETC

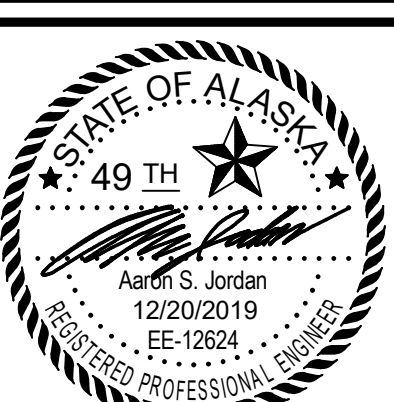
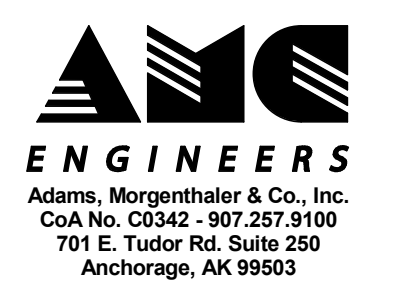
POWER	
SYMBOL	DESCRIPTION
	RECEPTACLE MOUNTING: RECEPTACLE - WALL MOUNTED (SEE 'RECEPTACLE TYPES' BELOW) RECEPTACLE - FLOOR MOUNTED (SEE 'RECEPTACLE TYPES' BELOW) RECEPTACLE - CEILING MOUNTED (SEE 'RECEPTACLE TYPES' BELOW)
	RECEPTACLE TYPES: DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE DOUBLE DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER, DOUBLE DUPLEX RECEPTACLE
	ELECTRICAL DEVICES: SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AS NOTED POWER POLE DRYER MOTOR SWITCH - THERMAL TRIP WITH HEATER SURFACE MOUNTED RACEWAY FUSED DISCONNECT NON-FUSED DISCONNECT COMBINATION STARTER/FUSED DISCONNECT STARTER OR CONTACTOR JUNCTION BOX AND/OR CONNECTION TO EQUIPMENT METERING DEVICE VARIABLE SPEED DRIVE PUSHBUTTON - SPECIAL PUSHBUTTON (1 BUTTON) PUSHBUTTON (2 BUTTON) PUSHBUTTON (3 BUTTON) PANEL - SURFACE MOUNTED PANEL - FLUSH MOUNTED TRANSFORMER RELAY GROUND FAULT RELAY

SPECIAL SYSTEMS	
SYMBOL	DESCRIPTION
	TELECOMMUNICATION OUTLET - WALL MOUNTED (X DENOTES NUMBER OF PORTS)
	TELECOMMUNICATION OUTLET - FLOOR MOUNTED (X DENOTES NUMBER OF PORTS)
	TELECOMMUNICATION OUTLET - CEILING MOUNTED (X DENOTES NUMBER OF PORTS)
	TELEPHONE OUTLET, SINGLE JACK - WALL MOUNTED
	INTERCOM CALL IN STATION
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM STROBE - WALL MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
	FIRE ALARM STROBE - CEILING MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
	FIRE ALARM HORN - WALL MOUNTED
	FIRE ALARM HORN - CEILING MOUNTED
	FIRE ALARM SPEAKER - WALL MOUNTED
	FIRE ALARM SPEAKER - CEILING MOUNTED
	BELL - WALL MOUNTED
	FIRE ALARM HORN/STROBE - WALL MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
	FIRE ALARM HORN/STROBE - CEILING MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
	FIRE ALARM SPEAKER/STROBE - WALL MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
	FIRE ALARM SPEAKER/STROBE - CEILING MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
	FIRE ALARM CHIME/STROBE - WALL MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
	FIRE ALARM CHIME/STROBE - CEILING MOUNTED (X DENOTES CANDELA RATING IF OTHER THAN 15cd)
	PHOTOELECTRIC SMOKE DETECTOR
	MULTI-TECHNOLOGY SMOKE DETECTOR
	HEAT DETECTOR
	FIXED TEMPERATURE HEAT DETECTOR (135 DEGREES FAHRENHEIT)
	DUCT DETECTOR
	FLOW SWITCH
	TAMPER SWITCH
	PRESSURE SWITCH
	DOOR HOLDER
	DOOR HOLDER/CLOSER
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR
	GLASS BREAK DETECTOR - WALL MOUNTED
	GLASS BREAK DETECTOR - CEILING MOUNTED
	SECURITY INFRARED MOTION DETECTOR - LONG RANGE - WALL MOUNTED
	SECURITY INFRARED MOTION DETECTOR - 360 DEGREE COVERAGE - CEILING MOUNTED
	DOOR CONTACT
	SECURITY KEYPAD
	SECURITY CARD READER
	CCTV CAMERA - PAN TILT ZOOM
	CCTV CAMERA - FIXED
	SPEAKER - WALL MOUNTED
	SPEAKER - CEILING OR PENDANT MOUNTED
	HEARING IMPAIRED INFRARED RADIATOR
	MICROPHONE - WALL MOUNTED
	MICROPHONE - FLOOR MOUNTED
	TELEVISION OUTLET, +90° AFF. UON.
	DOCUMENT CAMERA - CEILING MOUNTED
	OVERHEAD PROJECTOR
	ANALOG CLOCK
	ANALOG CLOCK/SPEAKER UNIT
	DIGITAL CLOCK
	DIGITAL CLOCK/SPEAKER UNIT

NOTE: THIS IS A STANDARD LEGEND. NOT ALL SYMBOLS NECESSARILY APPEAR ON THE DRAWINGS



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YAKUTAT TLINGIT TRIBE  
**YAKUTAT COMMUNITY HEALTH CENTER**  
YAKUTAT, ALASKA

Revisions

No.	Description	Date

Drawn by ERP/TRC	Date 12/23/19
Checked ASJ	Job No. 17046.01

Sheet Contents

LEGEND AND ABBREVIATIONS

Sheet No.  
**E0.01**





1SPD
LOCATION: CIRC WELLNESS 112
VOLTS: 120/208 Wye
SCCR: 7,148
PHASES: 3
MAINS TYPE: LUGS
WIRES: 4
RATING: 225 A
Circuit list including REC - ELEV E1-1, JAN 140, REC - EQUIPMENT STORAGE 119, etc.

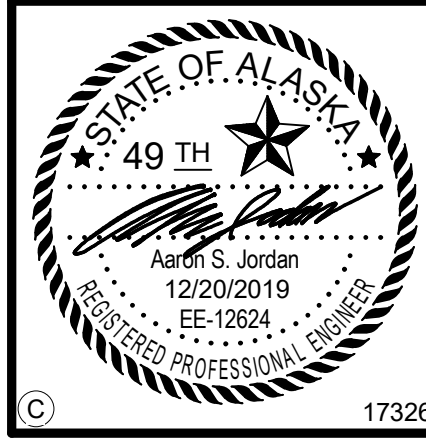
2SPA
LOCATION:
VOLTS: 120/208 Wye
SCCR: 9,324
PHASES: 3
MAINS TYPE: LUGS
WIRES: 4
RATING: 225 A
Circuit list including REC - LAB - LBDN1 225 WORKSTATION, REC - STERILE 227 N., W. WALLS, etc.

1EPA
LOCATION: CIRC WELLNESS 112
VOLTS: 120/208 Wye
SCCR: 2,363
PHASES: 3
MAINS TYPE: LUGS
WIRES: 4
RATING: 100 A
Circuit list including Ltg - NORTH EMERGENCY, SPARE, etc.

2EPA
LOCATION:
VOLTS: 120/208 Wye
SCCR: 3,481
PHASES: 3
MAINS TYPE: LUGS
WIRES: 4
RATING: 100 A
Circuit list including LTG - LEVEL 2 EMERGENCY, SPARE, etc.

Summary table for 1SPD and 1EPA: LOAD TYPE, CONNECTED LOAD, DEMAND FACTOR, TOTAL LOAD WITH NEC FACTORS, PANEL TOTALS.

Summary table for 2SPA and 2EPA: LOAD TYPE, CONNECTED LOAD, DEMAND FACTOR, TOTAL LOAD WITH NEC FACTORS, PANEL TOTALS.



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Revisions table with columns: No., Description, Date.

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Sheet Contents: PANEL SCHEDULES

Sheet No. E0.04

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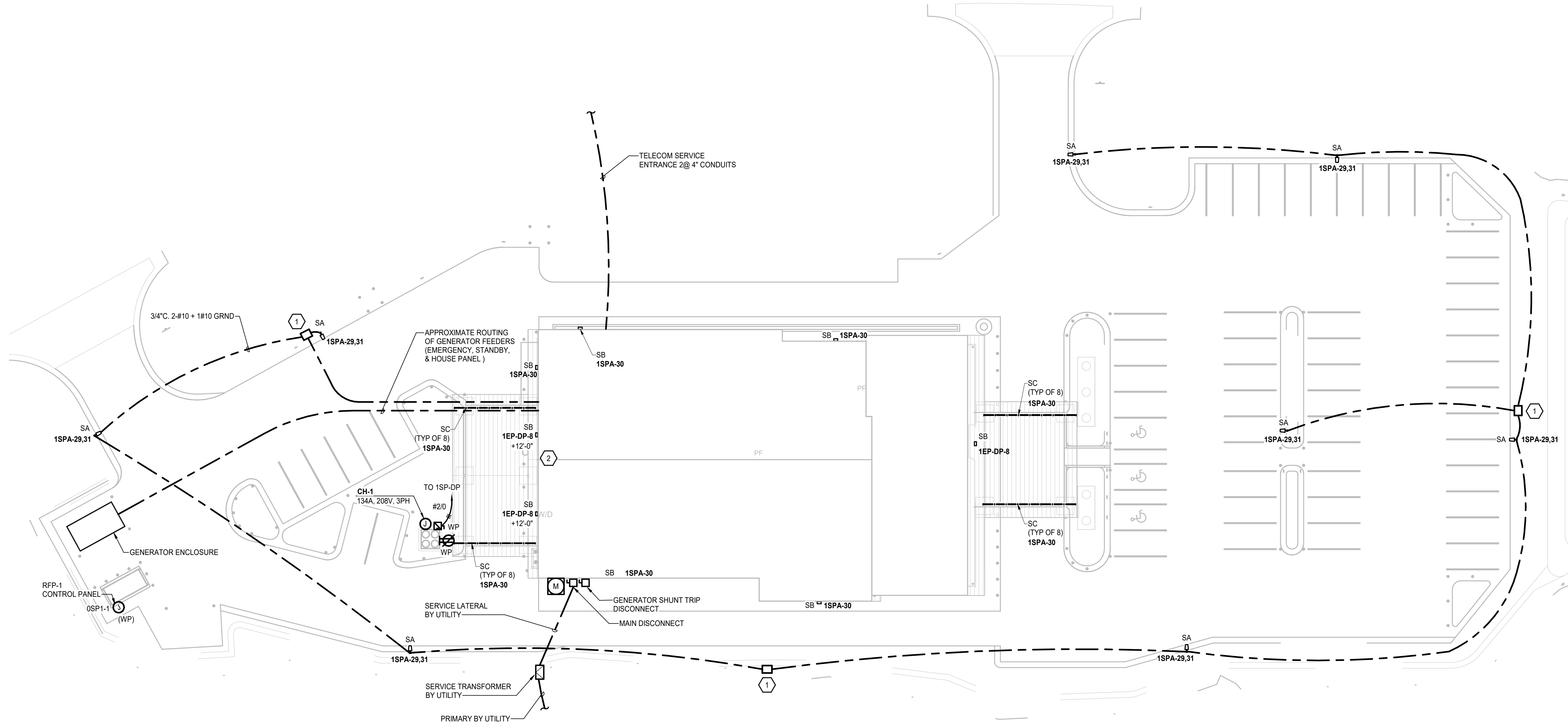


### GENERAL NOTES

1. REFER TO POWER ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

### SHEET NOTES

1. PROVIDE TYPE 1A JUNCTION BOX FOR ROUTING OF EXTERIOR LIGHTING CIRCUIT. PROVIDE EMBOSSED COVER, "LIGHTING".
2. PROVIDE PHOTOCELL FOR CONTROL OF EXTERIOR LIGHTING CONTACTOR. REFER TO SHEET E6.03 FOR ADDITIONAL INFORMATION.



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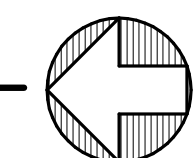
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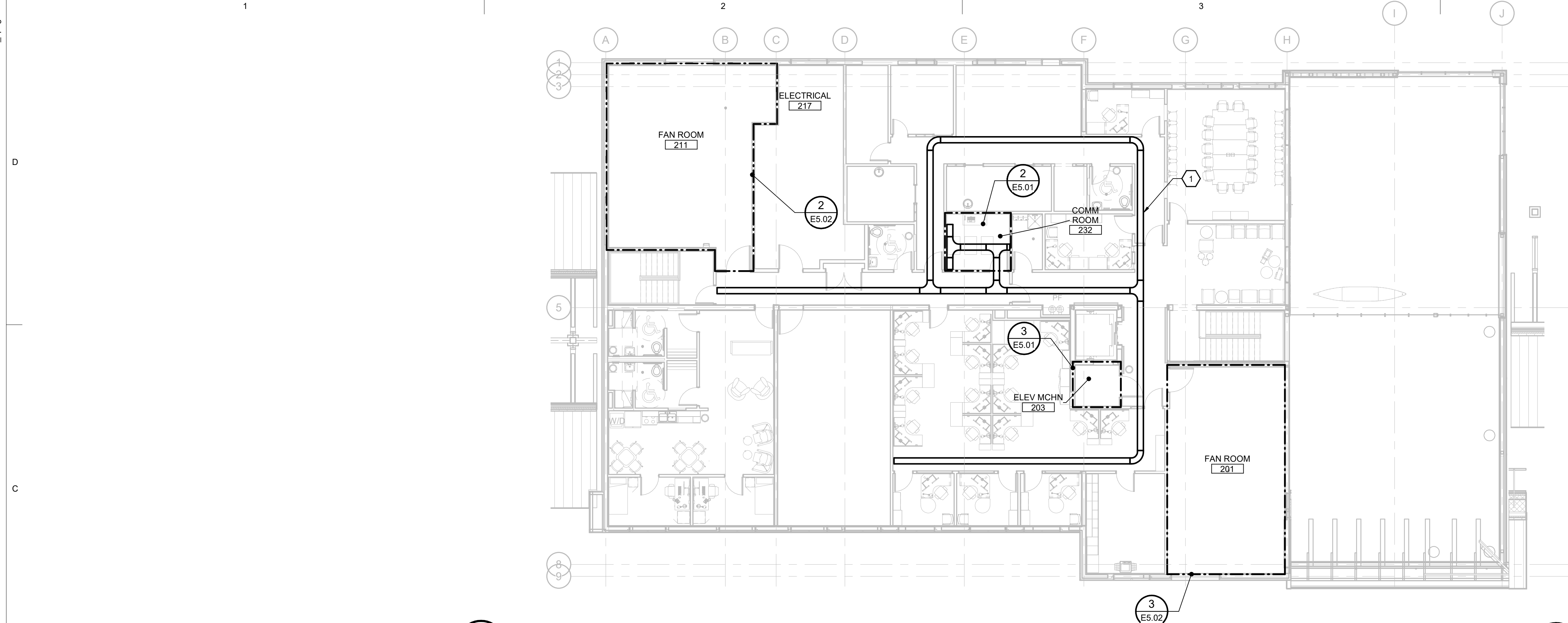
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Sheet Contents  
 SITE PLAN - ELECTRICAL

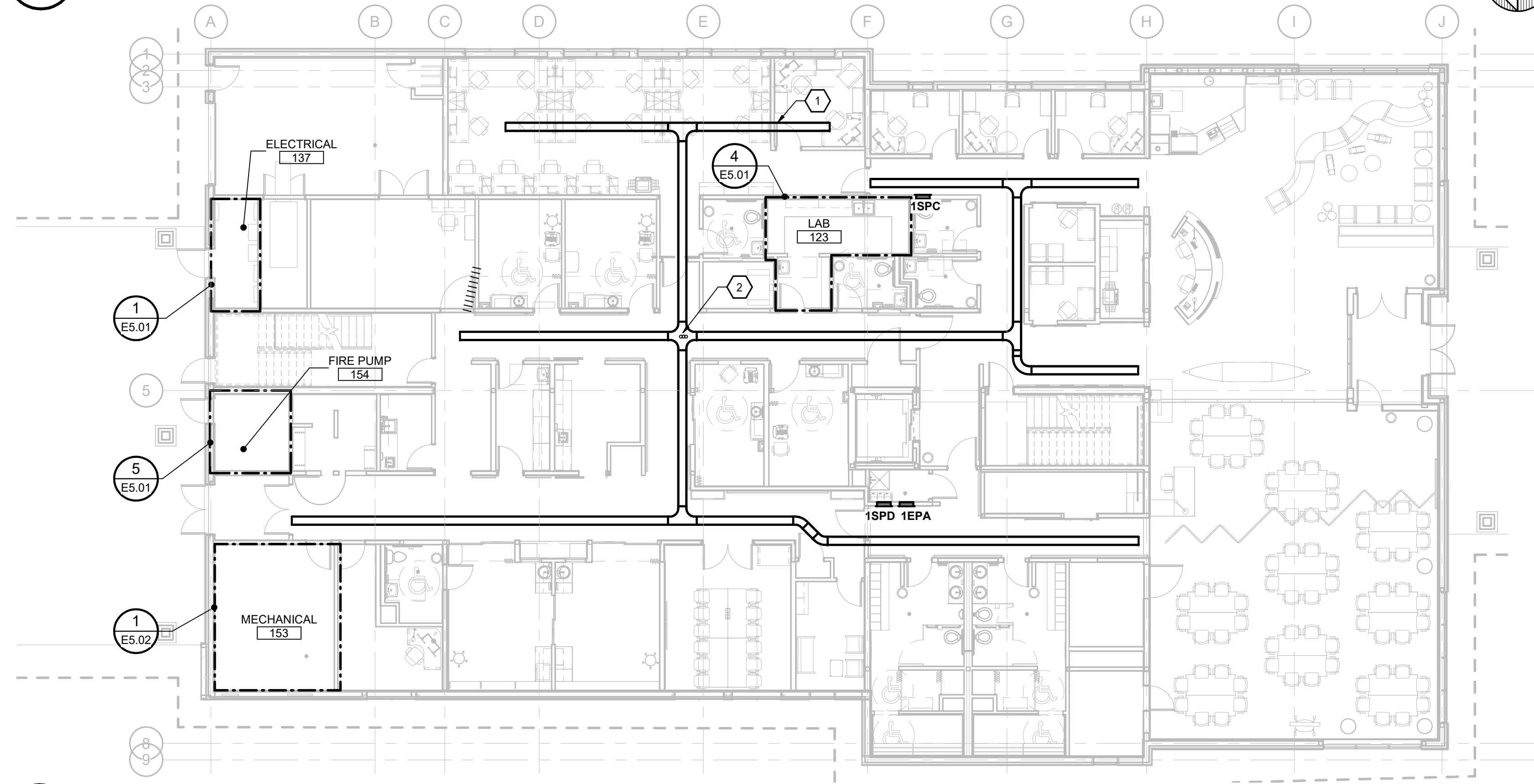
Sheet No.  
**E1.01**

**1 SITE PLAN - ELECTRICAL**  
 E1.01 Scale: 1" = 20'-0"





**2 OVERALL PLAN - SECOND FLOOR - ELECTRICAL**  
E1.10 Scale: 3/32" = 1'-0"



**1 OVERALL PLAN - FIRST FLOOR - ELECTRICAL**  
E1.10 Scale: 3/32" = 1'-0"

**SHEET NOTES**

1. PROVIDE 12 INCH WIDE BY 4 INCH DEEP CABLE TRAY IN ACCESSIBLE CEILING SPACE AT LOCATION INDICATED IAW THE SPECIFICATIONS.
2. PROVIDE CONDUIT SLEEVES THROUGH SECOND FLOOR TELECOM ROOM FLOOR FOR ROUTING OF FIRST FLOOR HORIZONTAL CABLING. REFER TO TELECOM ONE-LINE DIAGRAM ON SHEET E7.01 FOR ADDITIONAL INFORMATION.



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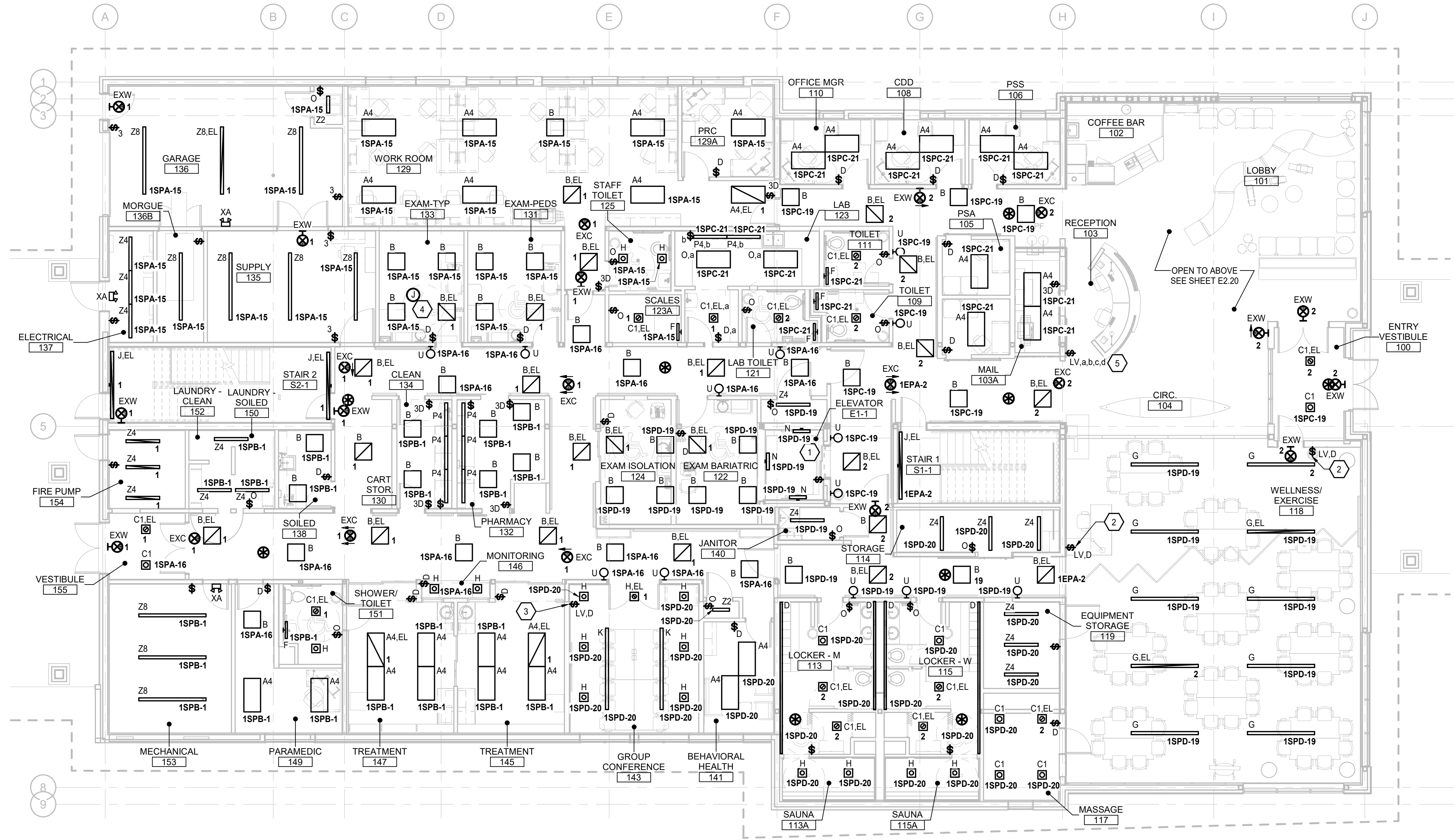
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No.	Description	Date

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Checked ASJ	Job No. 17046.01

Sheet Contents  
OVERALL PLANS

Sheet No.  
**E1.10**



### GENERAL NOTES

1. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E0.02 FOR ADDITIONAL INFORMATION.
2. CONNECT EMERGENCY LIGHTING FIXTURES TO PANEL 1EPA, CIRCUIT AS NOTED.
3. REFER TO SHEET E6.03 FOR INFORMATION ON CORRIDOR AND STAIRWELL LIGHTING CONTROL.

### SHEET NOTES

1. PROVIDE ELEVATOR PIT LIGHTING IAW NEC 620 REQUIREMENTS AND CONNECT TO 120V CIRCUIT UPSTREAM OF ELEVATOR PIT GFCI RECEPTACLE.
2. PROVIDE 2-CHANNEL, ON/OFF, DIMMING SWITCH FOR CONTROL OF LIGHTING FIXTURES IN WELLNESS/EXERCISE 112. PROVIDE CONNECTIONS AND PROGRAMMING SUCH THAT ONE CHANNEL CONTROLS THE DIRECT (DOWN) LIGHT AND THE OTHER CONTROLS THE INDIRECT (UP) LIGHT.
3. PROVIDE 3-CHANNEL, ON/OFF, DIMMING SWITCH FOR CONTROL OF LIGHTING FIXTURES IN GROUP CONFERENCE 143. PROVIDE CONNECTIONS AND PROGRAMMING SUCH THAT ONE CHANNEL CONTROLS TYPE H FIXTURES AND THE REMAINING TWO CHANNELS CONTROL TYPE K FIXTURES (ONE FOR DIRECT (DOWN) LIGHT AND ONE INDIRECT (UP) LIGHT).
4. CONNECT DENTAL LIGHT TO UNSWITCHED LOCAL LIGHTING CIRCUIT.
5. PROVIDE 4-CHANNEL, ON/OFF, DIMMING SWITCH FOR CONTROL OF LIGHTING FIXTURES IN LOBBY. PROVIDE CONNECTIONS AND PROGRAMMING SUCH THAT ONE CHANNEL CONTROLS TYPE R FIXTURES, ONE CHANNEL CONTROLS TYPE M FIXTURES, AND THE REMAINING TWO CHANNELS CONTROL TYPE L FIXTURES (ONE FOR DIRECT (DOWN) LIGHT AND ONE INDIRECT (UP) LIGHT).



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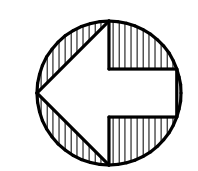
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Sheet Contents  
FIRST FLOOR - LIGHTING

Sheet No.  
**E2.10**

**1 FIRST FLOOR - LIGHTING**  
E2.10 Scale: 1/8" = 1'-0"



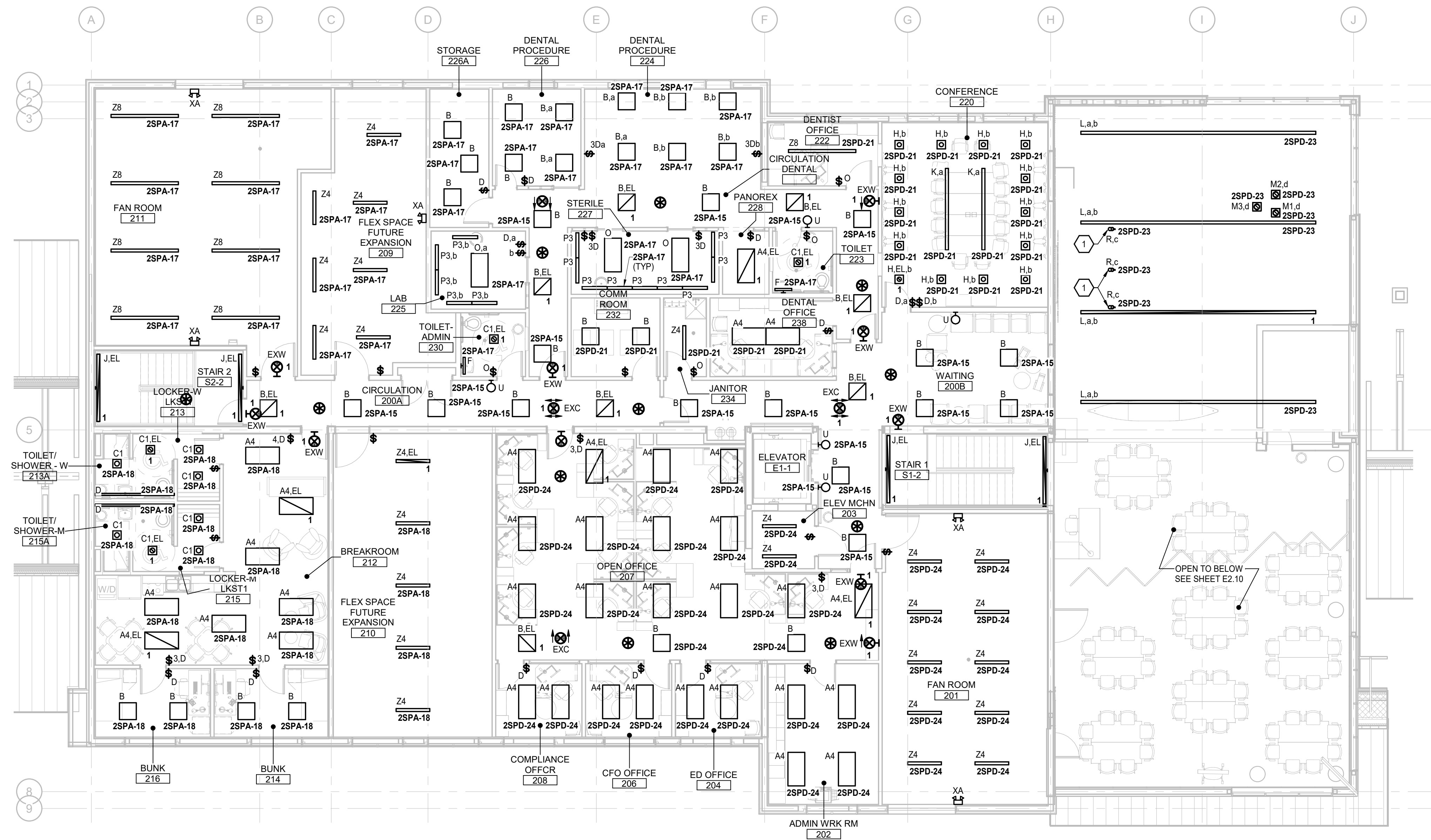


### GENERAL NOTES

1. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E0.02 FOR ADDITIONAL INFORMATION.
2. REFER TO SHEET E6.03 FOR INFORMATION ON CORRIDOR AND STAIRWELL LIGHTING CONTROL.

### SHEET NOTES

1. PROVIDE LIGHTING FIXTURE FOR ILLUMINATION OF WALL MOUNTED ARTIFACT. MOUNT FIXTURE ON SIDE OF STRUCTURAL BEAM.



**1 SECOND FLOOR - LIGHTING**  
 E2.20 Scale: 1/8" = 1'-0"

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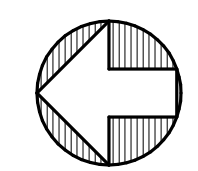
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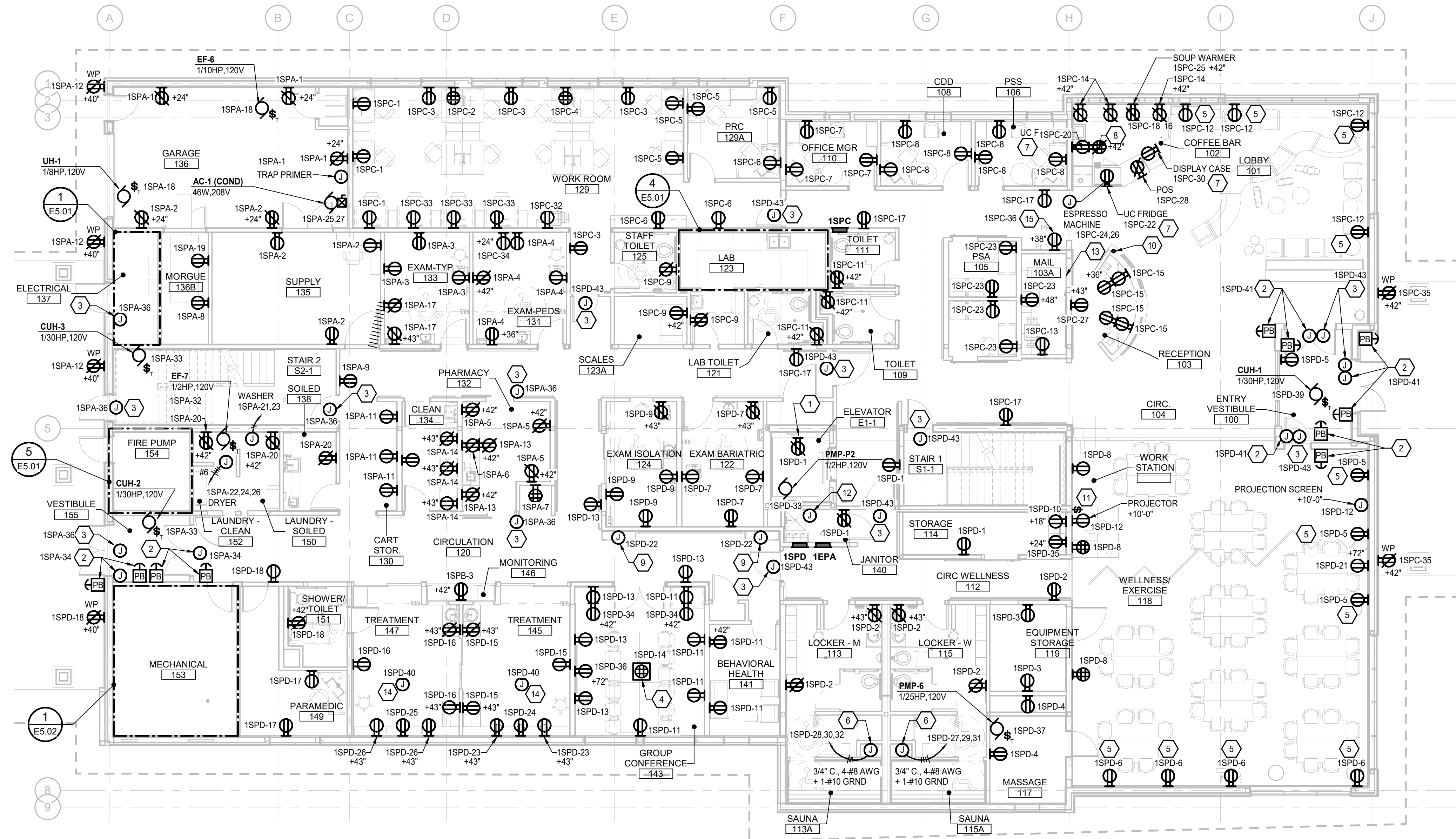
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Sheet Contents  
 SECOND FLOOR - LIGHTING

Sheet No.  
**E2.20**





**1 FIRST FLOOR - POWER**  
 E3.10 Scale: 1/8" = 1'-0"

**GENERAL NOTES**

1. REFER TO PANEL SCHEDULES E0.02 - E0.05 FOR ADDITIONAL INFORMATION.
2. PROVIDE TAMPER-RESISTANT RECEPTACLES FOR ALL NON-LOCKING RECEPTACLES IAW NEC 408.12.

**SHEET NOTES**

1. PROVIDE GFCI RECEPTACLE IN ELEVATOR PIT.
2. PROVIDE JUNCTION BOX FOR AUTOMATIC DOOR OPERATOR CONTROL AT 42 INCHES AFF. PROVIDE POWER CONNECTION TO DOOR OPERATOR AND CONTROL WIRING IAW THE MANUFACTURERS INSTRUCTIONS.
3. PROVIDE CONNECTION TO ACCESS CONTROL SYSTEM DOOR HARDWARE AND POWER SUPPLY. REFER TO SHEET E6.01 FOR ADDITIONAL INFORMATION.
4. PROVIDE POWER AND DATA FLOOR BOX AT LOCATION INDICATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. PROVIDE DUPLEX RECEPTACLE WITH USB CHARGING AT LOCATION INDICATED. ROTATE RECEPTACLE LENGTHWISE TO THE FLOOR, MOUNT UNDER MECHANICAL BASEBOARD FINITURE.
6. PROVIDE CONNECTION TO SAUNA IAW SAUNA MANUFACTURERS INSTRUCTIONS AND REQUIREMENTS.
7. CONNECT TO GFCI BREAKER IN PANELBOARD AND PROVIDE LABEL ABOVE RECEPTACLE THAT READS "GFCI PROTECTED".
8. PROVIDE DOUBLE-DUPLEX RECEPTACLE FOR BLENDERS. CONNECT ONE RECEPTACLE TO ONE CIRCUIT NOTED AND OTHER RECEPTACLE TO OTHER CIRCUIT NOTED.
9. CONNECT LIGHTED DISPLAY CASE TO CIRCUIT NOTED IAW DISPLAY CASE MANUFACTURER'S REQUIREMENTS.
10. STUB 1@ 1 INCH CONDUIT UP THROUGH CONCRETE SLAB FOR ROUTING OF RECEPTION DESK CIRCUITS.
11. PROVIDE 3-POSITION MOMENTARY CONTACT SWITCH FOR CONTROL OF PROJECTION SCREEN.
12. SUMP PUMP CONTROL PANEL PROVIDED BY OTHERS. CONNECT ELEVATOR SUMP PUMP TO PANEL AND CIRCUIT INDICATED VIA CIRCUIT BREAKER IN CONTROL PANEL.
13. GENERATOR REMOTE ANNUNCIATOR. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
14. PROVIDE CONNECTION FOR OVERHEAD PROCEDURE LIGHT. COORDINATE BACKING AND STRUCTURAL BRACING REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
15. PROVIDE RECEPTACLE FOR DRINKING FOUNTAIN. COORDINATE EXACT LOCATION WITH DRINKING FOUNTAIN MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONNECT TO GFCI CIRCUIT BREAKER IN PANELBOARD.

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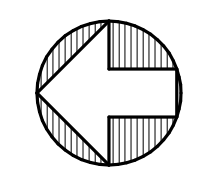
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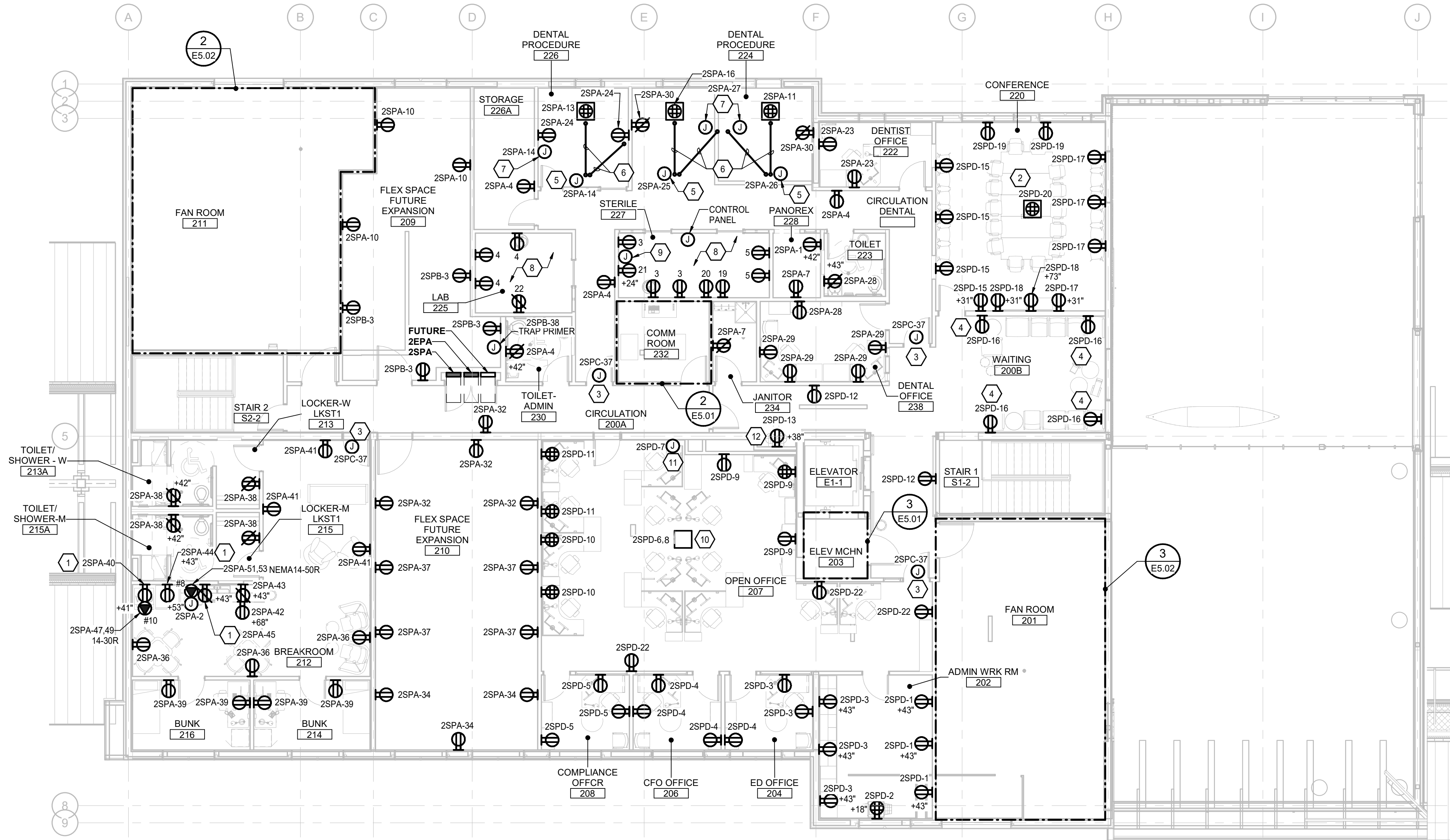
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Sheet Contents  
 FIRST FLOOR - POWER

Sheet No.  
**E3.10**





**GENERAL NOTES**

1. REFER TO PANEL SCHEDULES E0.02 - E0.05 FOR ADDITIONAL INFORMATION.
2. PROVIDE TAMPER-RESISTANT RECEPTACLES FOR ALL NON-LOCKING RECEPTACLES IAW NEC 408.12.

**SHEET NOTES**

1. CONNECT TO GFCI BREAKER IN PANELBOARD AND PROVIDE LABEL ABOVE RECEPTACLE THAT READS "GFCI PROTECTED".
2. PROVIDE POWER AND DATA FLOOR BOX AT LOCATION INDICATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PROVIDE CONNECTION TO ACCESS CONTROL SYSTEM DOOR HARDWARE AND POWER SUPPLY. REFER TO SHEET E6.01 FOR ADDITIONAL INFORMATION.
4. PROVIDE DUPLEX RECEPTACLE WITH USB CHARGING AT LOCATION INDICATED.
5. CONNECT DENTAL EQUIPMENT TO CIRCUIT NOTED.
6. PROVIDE 1@2 INCH CONDUIT IN LEVEL 1 CEILING SPACE AND STUB UP TO DENTAL EQUIPMENT AS INDICATED. COORDINATE FINAL LOCATION WITH DENTAL EQUIPMENT PLANS AND DENTAL EQUIPMENT MANUFACTURERS INSTRUCTIONS.
7. CONNECT DENTAL OPERATING LIGHT TO CIRCUIT NOTED.
8. CONNECT CIRCUITS IN THIS ROOM TO PANEL 2SPA, CIRCUIT AS NOTED. UON. LOCATE RECEPTACLES SHOWN IN THIS ROOM AT +44 INCHES AFF. UON.
9. PROVIDE TWO 4 INCH SQUARE JUNCTION BOXES FOR ULTRASONIC CLEANER TIMER; ONE AT +24 INCHES AFF AND ONE AT +44 INCHES AFF. PROVIDE 1@ 1 INCH CONDUIT BETWEEN BOXES.
10. PROVIDE DUAL SERVICE POWER AND TELECOM FURNITURE FEED FLOOR BOX AT APPROXIMATE LOCATION INDICATED AND CONNECT TO FURNITURE. COORDINATE EXACT LOCATIONS WITH FURNITURE PROVIDER PRIOR TO INSTALLATION. REFER TO SHEET E4.20 FOR ADDITIONAL INFORMATION ON TELECOM REQUIREMENTS.
11. PROVIDE DUAL SERVICE POWER AND TELECOM FURNITURE FEED WALL BOX AT APPROXIMATE LOCATION INDICATED AND CONNECT TO FURNITURE. COORDINATE EXACT LOCATIONS WITH FURNITURE PROVIDER PRIOR TO INSTALLATION. REFER TO SHEET E4.20 FOR ADDITIONAL INFORMATION ON TELECOM REQUIREMENTS.
12. PROVIDE RECEPTACLE FOR DRINKING FOUNTAIN. COORDINATE EXACT LOCATION WITH DRINKING FOUNTAIN MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONNECT TO GFCI CIRCUIT BREAKER IN PANELBOARD.

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**YAKUTAT TLINGIT TRIBE**  
**YAKUTAT COMMUNITY**  
**HEALTH CENTER**  
**YAKUTAT, ALASKA**

**Revisions**

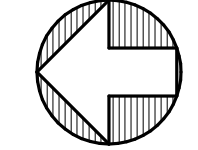
No.	Description	Date

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Sheet Contents  
SECOND FLOOR - POWER

Sheet No.  
**E3.20**

**1 SECOND FLOOR - POWER**  
E3.20 Scale: 1/8" = 1'-0"



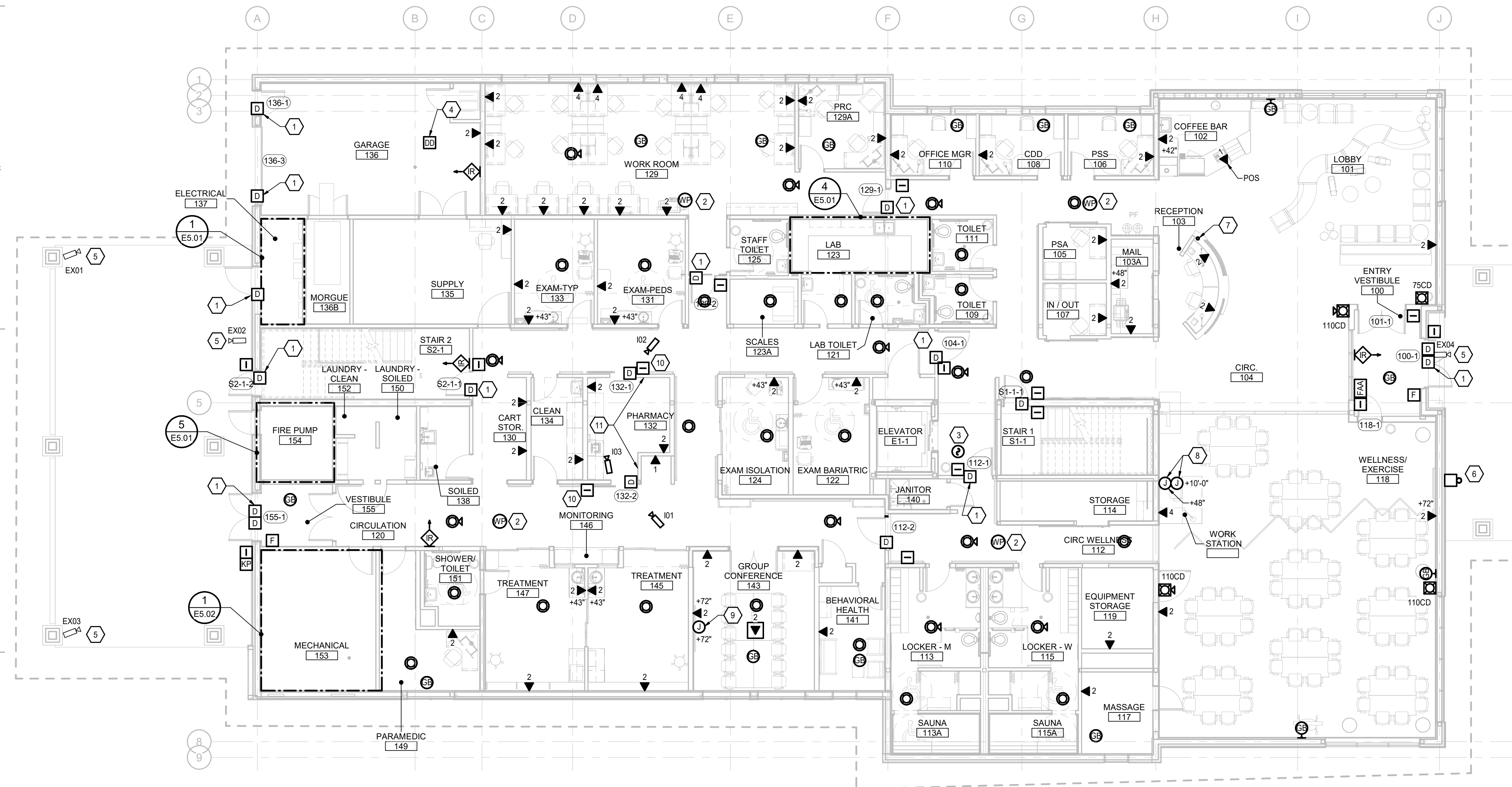


**GENERAL NOTES**

1. FIRE ALARM STROBES ARE 15 CANDELA UON.

**SHEET NOTES**

1. PROVIDE DOOR CONTACT(S) FOR MONITORING DOOR POSITION BY THE ACS AND/OR INTRUSION DETECTION SYSTEM. REFER TO SHEET E6.01 AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE TELECOM OUTLET IN ACCESSIBLE CEILING SPACE AT LOCATION INDICATED FOR FUTURE CONNECTION OF OFDI WIRELESS ACCESS POINT.
3. PROVIDE SMOKE DETECTOR IN ELEVATOR LOBBY FOR ELEVATOR RECALL. LAW THE SPECIFICATIONS.
4. PROVIDE DUCT DETECTOR FOR ACTUATION OF FIRE SMOKE DAMPER. LAW THE SPECIFICATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE IP CAMERA AT LOCATION INDICATED. REFER TO SHEET E6.02 FOR ADDITIONAL INFORMATION.
6. PROVIDE FIRE ALARM SYSTEM BELL AT LOCATION OF FIRE DEPARTMENT CONNECTION.
7. STUB 1@ 1/2 INCH CONDUIT UP THROUGH CONCRETE SLAB FOR ROUTING OF RECEPTION DESK TELECOM CABLING.
8. PROVIDE TWO GARVIN INDUSTRIES 6 INCH SQUARE BY 3-1/2 INCH DEEP JUNCTION BOX WITH 1-1/2 INCH SIDE KNOCKOUTS, OR APPROVED EQUAL. PROVIDE 1/2 INCH RAISED, 6 INCH SQUARE DOUBLE GANG DEVICE COVER. ONE JUNCTION BOX IS FOR WALL-MOUNTED PROJECTOR AND OTHER IS FOR PROJECTOR INPUT. PROVIDE 1@ 1-1/2 INCH CONDUIT BETWEEN JUNCTION BOXES.
9. PROVIDE GARVIN INDUSTRIES 6 INCH SQUARE BY 3-1/2 INCH DEEP JUNCTION BOX WITH 1-1/2 INCH SIDE KNOCKOUTS, OR APPROVED EQUAL. PROVIDE 1/2 INCH RAISED, 6 INCH SQUARE DOUBLE GANG DEVICE COVER. PROVIDE 1@ 1-1/2 INCH CONDUIT FROM JUNCTION BOX INTO ACCESSIBLE CEILING SPACE AND 1@ 1-1/2 INCH CONDUIT BETWEEN JUNCTION BOX AND FLOOR BOX.
10. COORDINATE EXACT PLACEMENT OF ACS CARD READER WITH DOOR PROVIDER FOR SLIDING PHARMACY DOORS.
11. PROVIDE ACS REQUEST TO EXIT BUTTON FOR PHARMACY SLIDING DOORS.



**1 FIRST FLOOR - SPECIAL SYSTEMS**  
E4.10 Scale: 1/8" = 1'-0"

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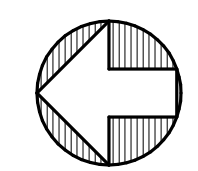
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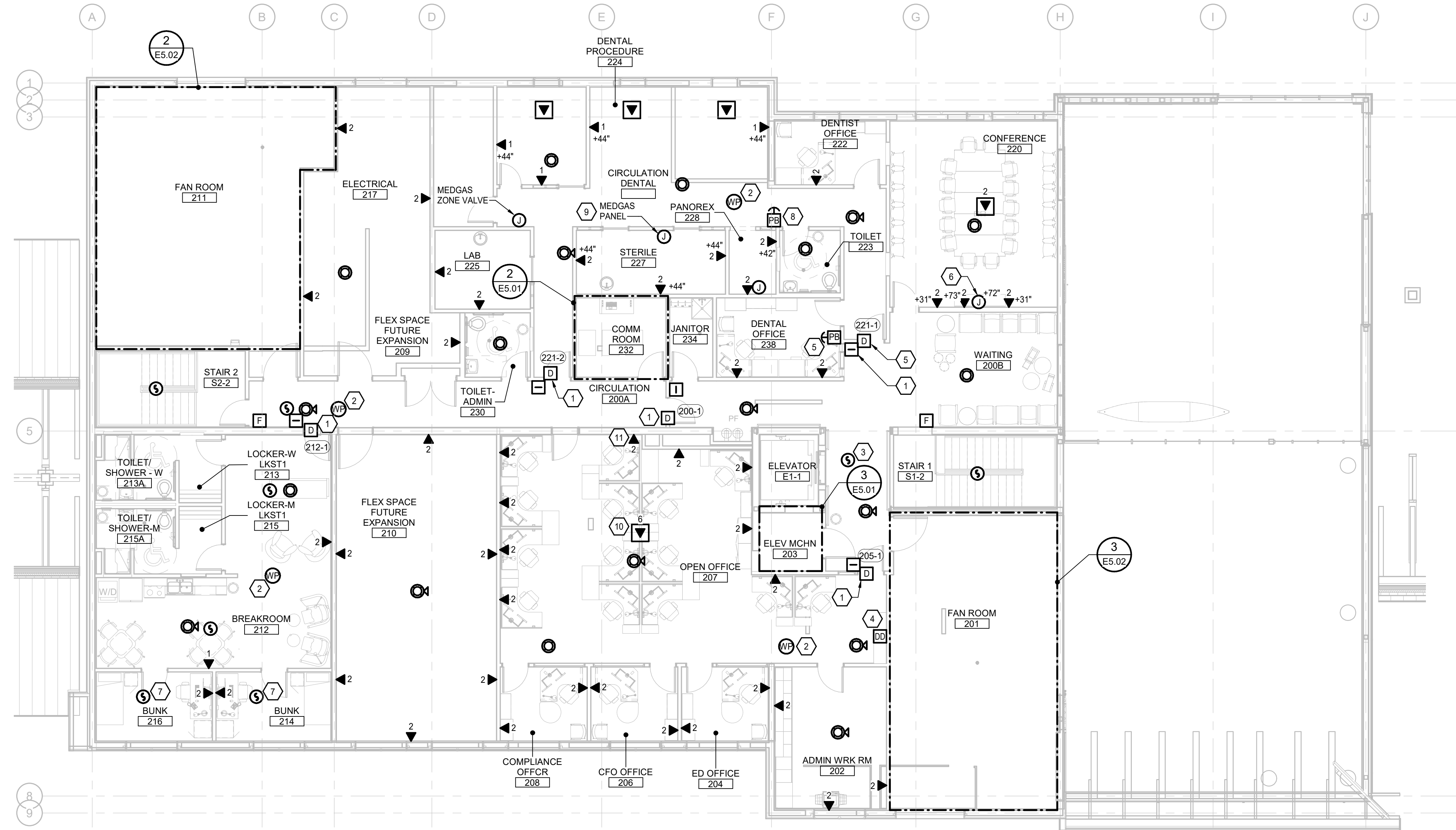
Sheet Contents

FIRST FLOOR - SPECIAL SYSTEMS
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Sheet No.  
**E4.10**







**GENERAL NOTES**

1. FIRE ALARM STROBES ARE 15 CANDELA UON.

**SHEET NOTES** #

1. PROVIDE DOOR CONTACTS FOR MONITORING DOOR POSITION BY THE ACS. REFER TO SHEET E6.01 AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE CEILING MOUNTED TELECOM OUTLET AT LOCATION INDICATED FOR FUTURE CONNECTION OF OFOI WIRELESS ACCESS POINT.
3. PROVIDE SMOKE DETECTOR IN ELEVATOR LOBBY FOR ELEVATOR RECALL. LAW THE SPECIFICATIONS.
4. PROVIDE DUCT DETECTOR FOR ACTUATION OF FIRE SMOKE DAMPER. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE CONNECTION BETWEEN DENTAL OFFICE PUSH BUTTON AND DOOR 221-1 ACCESS CONTROL EQUIPMENT SUCH THAT ACTIVATION OF PUSH BUTTON GRANTS PATIENT ACCESS TO SECURE DENTAL AREA.
6. PROVIDE GARVIN INDUSTRIES 6 INCH SQUARE BY 3-1/2 INCH DEEP JUNCTION BOX WITH 1-1/2 INCH SIDE KNOCKOUTS, OR APPROVED EQUAL. PROVIDE 1/2 INCH RAISED, 6 INCH SQUARE DOUBLE GANG DEVICE COVER. PROVIDE 1@ 1-1/2 INCH CONDUIT FROM JUNCTION BOX INTO ACCESSIBLE CEILING SPACE AND 1@ 1-1/2 INCH CONDUIT BETWEEN JUNCTION BOX AND FLOOR BOX.
7. PROVIDE DUAL SMOKE AND CO DETECTOR WITH SOUNDER BASE FOR LOCAL ALARM IN SLEEPING ROOMS.
8. INSTALL X-RAY REMOTE SWITCH FURNISHED BY OTHERS. PROVIDE 1@ 1 INCH CONDUIT BETWEEN SWITCH AND PANORAMIC X-RAY MACHINE. INSTALL DENTAL EQUIPMENT MANUFACTURER FURNISHED CABLING BETWEEN SWITCH AND X-RAY MACHINE VIA CONDUIT.
9. PROVIDE 1@ 1/2 INCH CONDUIT BETWEEN MEDGAS CONTROL PANEL AND MEDGAS ZONE VALVE AND 1@ 1/2 INCH CONDUIT BETWEEN MEDGAS CONTROL PANEL AND MEDGAS MANIFOLD FOR CONTROL WIRING INSTALLED BY OTHERS. PROVIDE PULLSTRING IN EACH CONDUIT.
10. PROVIDE DUAL SERVICE POWER AND TELECOM FURNITURE FEED FLOOR BOX AT APPROXIMATE LOCATION INDICATED AND CONNECT TO FURNITURE. COORDINATE EXACT LOCATIONS WITH FURNITURE PROVIDER PRIOR TO INSTALLATION. REFER TO SHEET E3.20 FOR ADDITIONAL INFORMATION ON POWER REQUIREMENTS.
11. PROVIDE DUAL SERVICE POWER AND TELECOM FURNITURE FEED WALL BOX AT APPROXIMATE LOCATION INDICATED AND CONNECT TO FURNITURE. COORDINATE EXACT LOCATIONS WITH FURNITURE PROVIDER PRIOR TO INSTALLATION. REFER TO SHEET E3.20 FOR ADDITIONAL INFORMATION ON POWER REQUIREMENTS.

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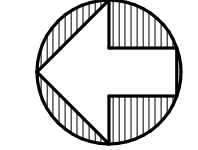
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SECOND FLOOR - SPECIAL SYSTEMS

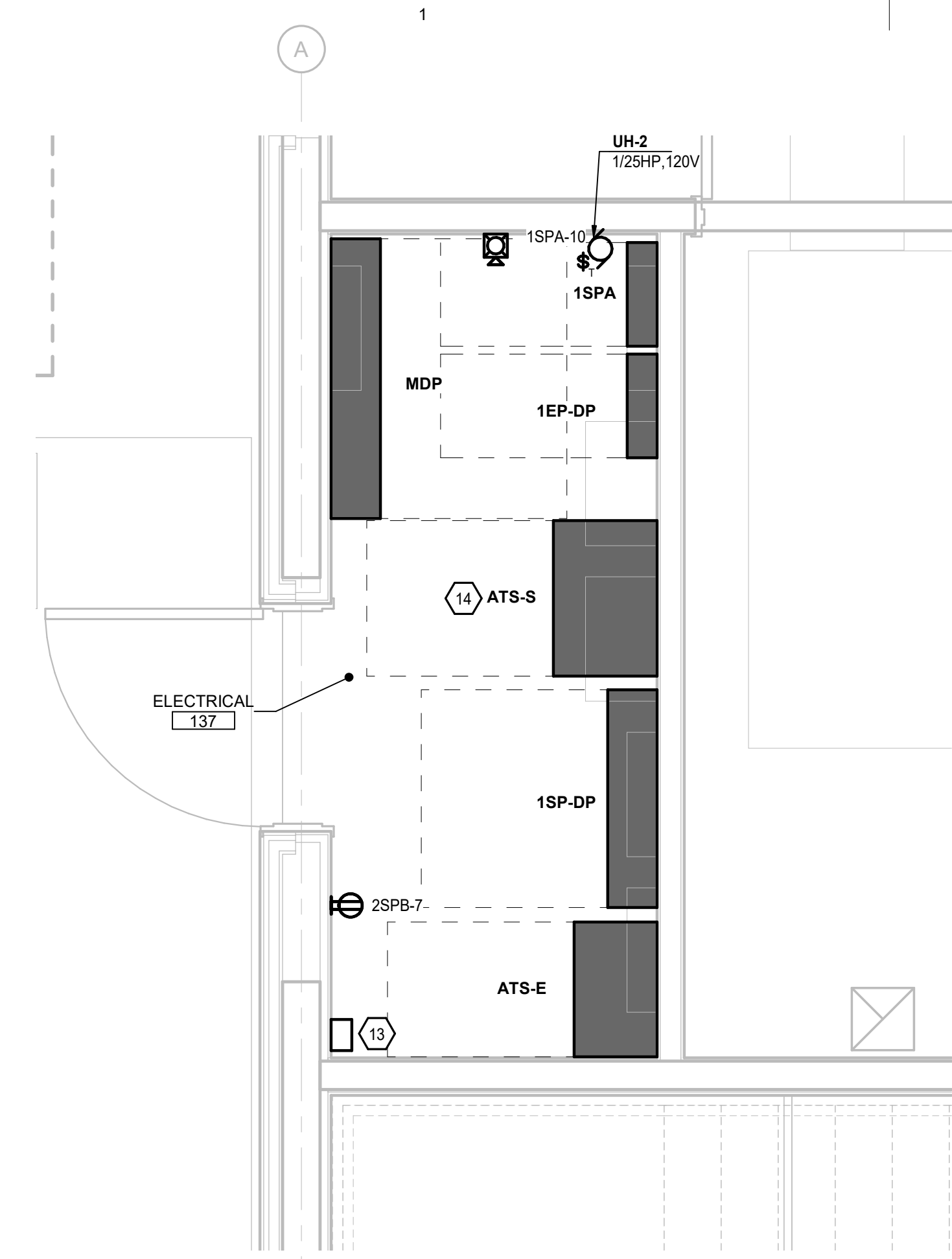
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**1 SECOND FLOOR - SPECIAL SYSTEMS**  
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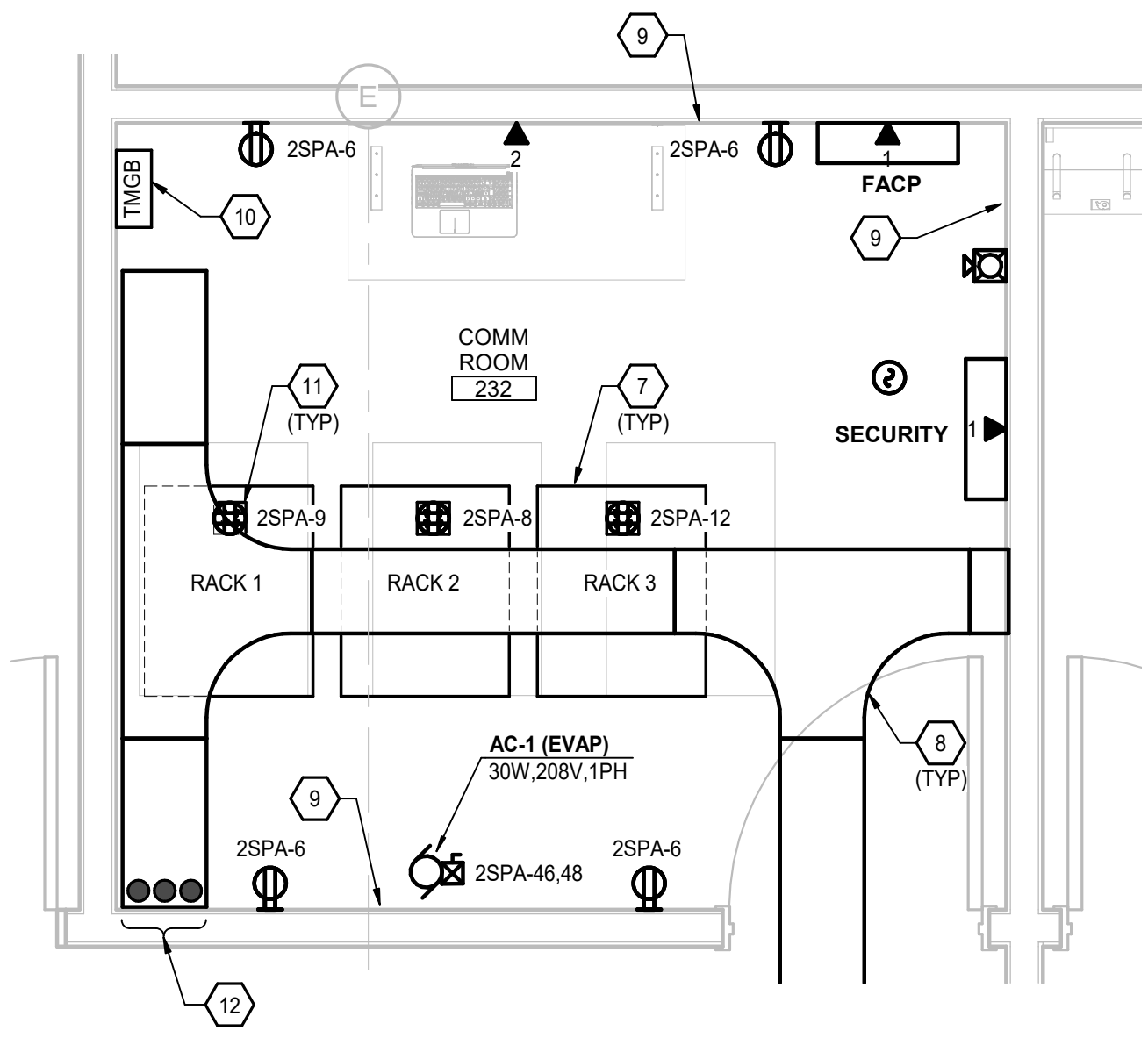
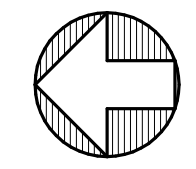


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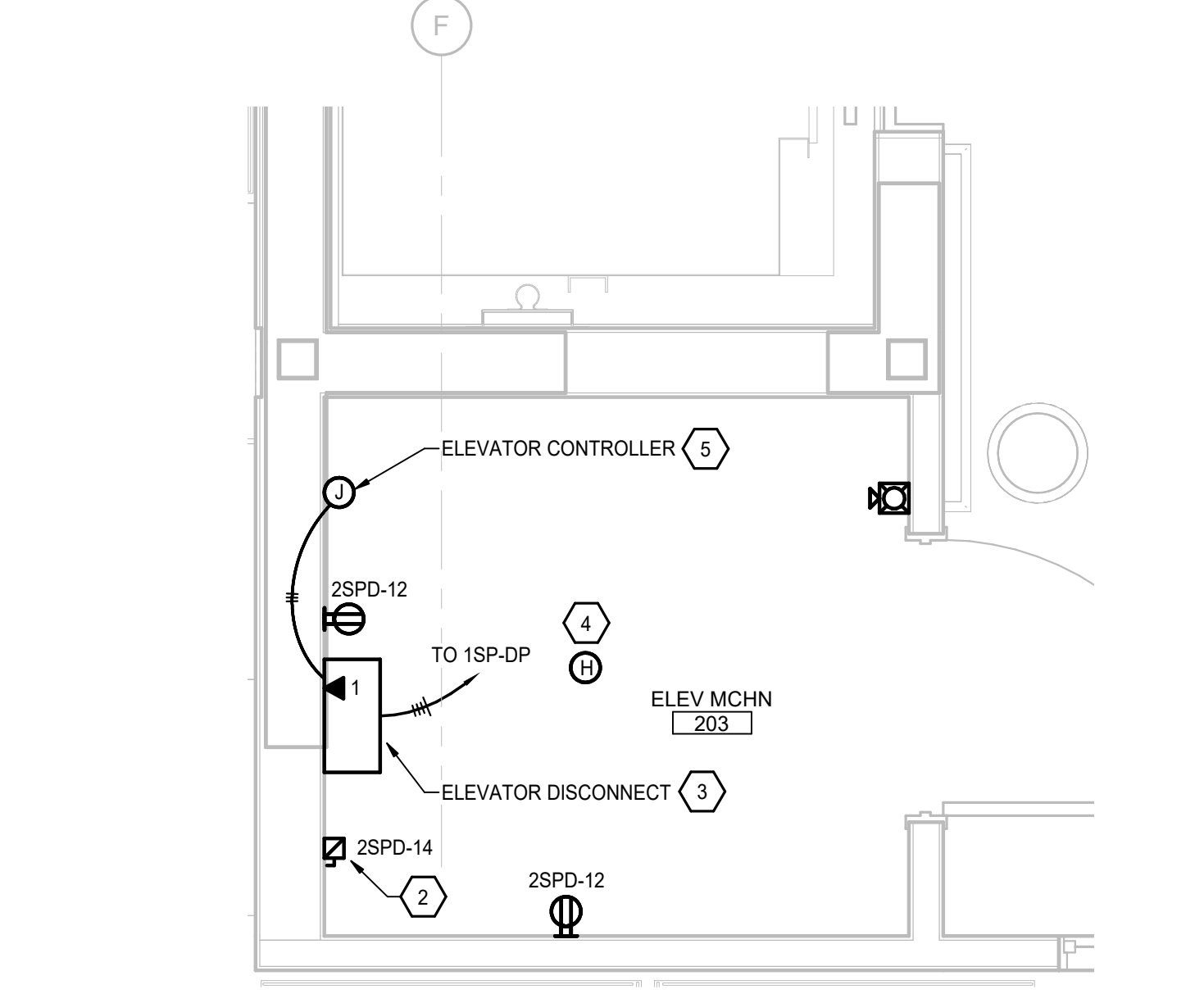
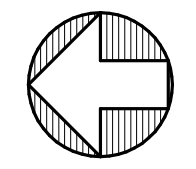
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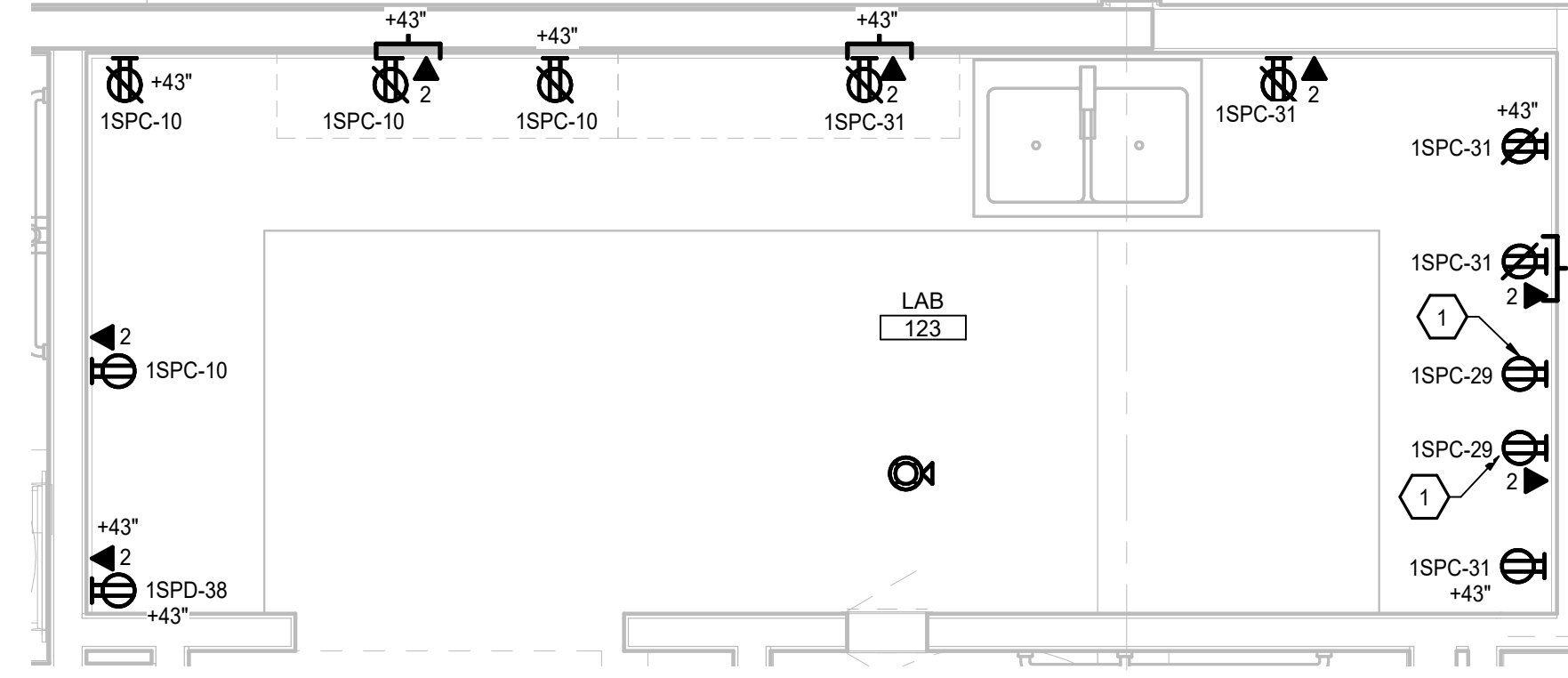
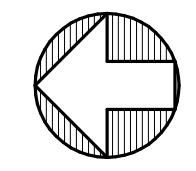
**1 FIRST FLOOR - MAIN ELECTRICAL ROOM**  
E5.01 Scale: 1/2" = 1'-0"



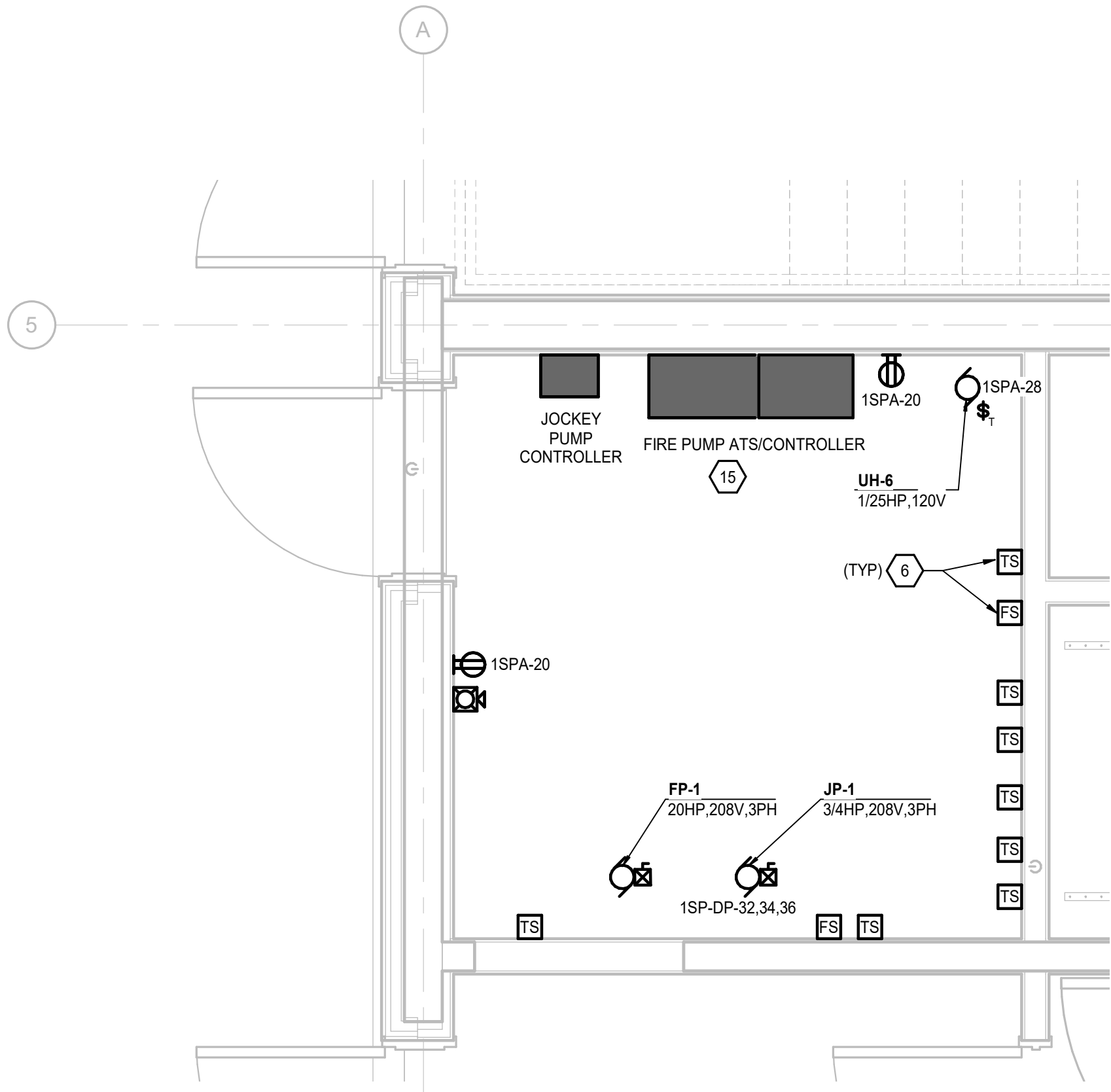
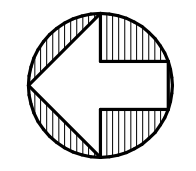
**2 SECOND FLOOR - COMM ROOM**  
E5.01 Scale: 1/2" = 1'-0"



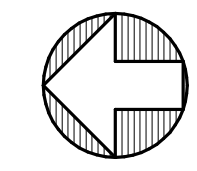
**3 SECOND FLOOR - ELEV MCHN 203**  
E5.01 Scale: 1/2" = 1'-0"



**4 FIRST FLOOR - LAB 123**  
E5.01 Scale: 1/2" = 1'-0"



**5 FIRST FLOOR - FIRE PUMP ROOM**  
E5.01 Scale: 1/2" = 1'-0"



**GENERAL NOTES**

1. FIRE ALARM STROBES ARE 15 CANDELA UON.

**SHEET NOTES**

1. CONNECT TO GFCI BREAKER IN PANELBOARD AND PROVIDE LABEL ABOVE RECEPTACLE THAT READS "GFCI PROTECTED."
2. PROVIDE DISCONNECT FOR ELEVATOR CAR LIGHT AND RECEPTACLE IAW NEC 620. CONNECT DISCONNECT TO CIRCUIT NOTED.
3. PROVIDE ENCLOSED SHUNT TRIP CIRCUIT BREAKER FOR ELEVATOR CONTROLLER DISCONNECT. CONNECT SHUNT TO FACP FOR ELEVATOR RECALL AND AUTOMATIC SHUTDOWN OF ELEVATOR POWER PRIOR TO APPLICATION OF WATER FROM SPRINKLER.
4. PROVIDE DETECTOR(S) IN ELEVATOR MACHINE ROOM. ACTIVATION OF DETECTOR(S) SHALL INITIATE ELEVATOR RECALL AND POWER SHUTDOWN INDICATED IN SHEET NOTE 3. REFER TO SPECIFICATION SECTION 283100 FOR ADDITIONAL INFORMATION.
5. PROVIDE DEDICATED 120V CIRCUIT AND PHONE LINE TO CONTROLLER. PROVIDE CONNECTION FROM ATS-S TO CONTROL TO INDICATE WHEN ELEVATOR IS ON STAND-BY POWER. REFER TO ELEVATOR MANUFACTURER'S SHOP DRAWINGS AND COORDINATE WITH ELEVATOR INSTALLER FOR ADDITIONAL INFORMATION AND REQUIREMENTS PRIOR TO INSTALLATION.
6. PROVIDE FLOW AND TAMPER SWITCHES IN QUANTITIES REQUIRED. COORDINATE REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR.
7. PROVIDE TELECOM RACK IAW TELECOM SPECIFICATIONS.
8. PROVIDE HORIZONTAL CABLE TRAY MOUNTED AT 7'-8" AFF.
9. PROVIDE TELECOM BACKBOARD IAW TELECOM SPECIFICATIONS.
10. PROVIDE TELECOM MAIN GROUNDING BUS TMGB BAR PER TELECOM SPECIFICATIONS. WALL MOUNT GROUND BUS BAR AT 7'-6" AFF.
11. PROVIDE SURFACE FLOOR MOUNTED QUAD-PLEX RECEPTACLES FOR EACH TELECOM RACK PROVIDED, CIRCUIT AS NOTED.
12. PROVIDE 4 INCH CONDUIT SLEEVES FROM TELECOM ROOM TO FIRST FLOOR CABLE TRAY. REFER TO SHEET E1.0 FOR ADDITIONAL INFORMATION.
13. LOCATION OF EXTERIOR LIGHTING CONTACTOR. REFER TO DETAIL 3 ON SHEET E6.03 FOR ADDITIONAL INFORMATION.
14. PROVIDE COMMUNICATION CONNECTION FROM ATS-S TO ELEVATOR CONTROLLER. REFER TO POWER ONE-LINE DIAGRAM ON SHEET E8.01 FOR ADDITIONAL INFORMATION.
15. PROVIDE UTILITY AND GENERATOR CONNECTIONS TO COMBINATION ATS/ FIRE PUMP CONTROLLER IAW THE POWER ONE-LINE DIAGRAM ON SHEET E8.01.

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**YAKUTAT COMMUNITY HEALTH CENTER**  
YAKUTAT, ALASKA

Revisions

No.	Description	Date

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Checked ASJ	Job No. 17046.01

Sheet Contents  
ENLARGED PLANS

Sheet No.  
**E5.01**

**GENERAL NOTES**

1. FIRE ALARM STROBES ARE 15 CANDELA UON.

**SHEET NOTES**

1. PROVIDE BOILER SHUT DOWN SWITCH. REFER TO DETAIL ON SHEET E6.03 FOR ADDITIONAL INFORMATION.
2. PROVIDE FIRE ALARM DUCT DETECTOR IN AHU RETURN PATH. PROVIDE DUCT DETECTOR IN RETURN DUCT BELOW AHU IN FIRST LEVEL ACCESSIBLE CEILING SPACE WHERE INDICATED. REFER TO SPECIFICATIONS SECTION 283100 FOR ADDITIONAL INFORMATION.
3. PROVIDE RECEPTACLE AND TELECOM OUTLET FOR CONNECTION TO BAS CONTROL PANEL. VERIFY EXACT LOCATIONS WITH CONTROL CONTRACTOR PRIOR TO INSTALLATION.
4. LOCATION OF BOILER SHUTDOWN CONTACTOR. REFER TO DETAIL 2 ON SHEET E6.03 FOR ADDITIONAL INFORMATION.
5. PROVIDE RELAY FOR ON/OFF CONTROL OF MECHANICAL EQUIPMENT.



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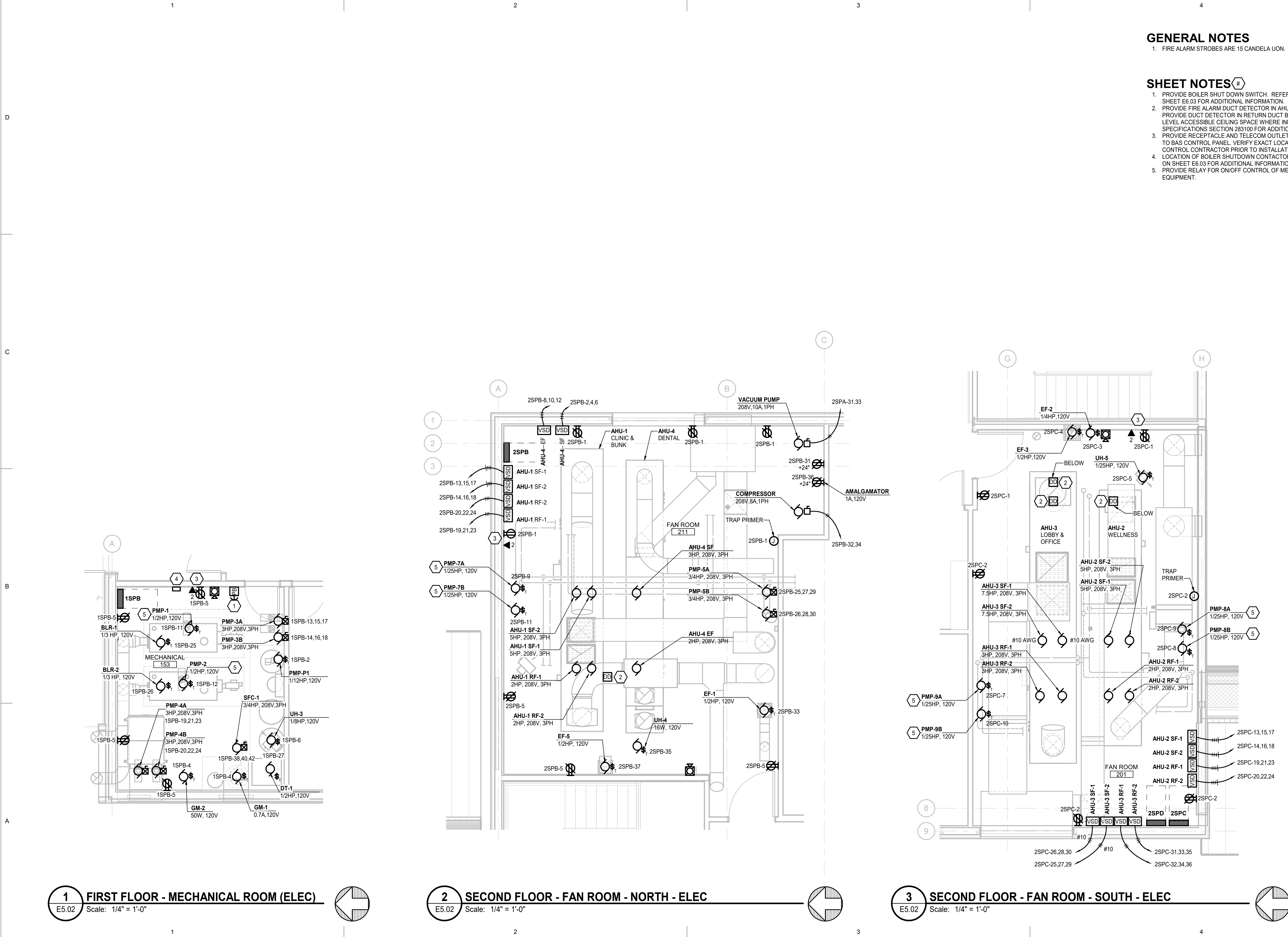
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ENLARGED PLANS

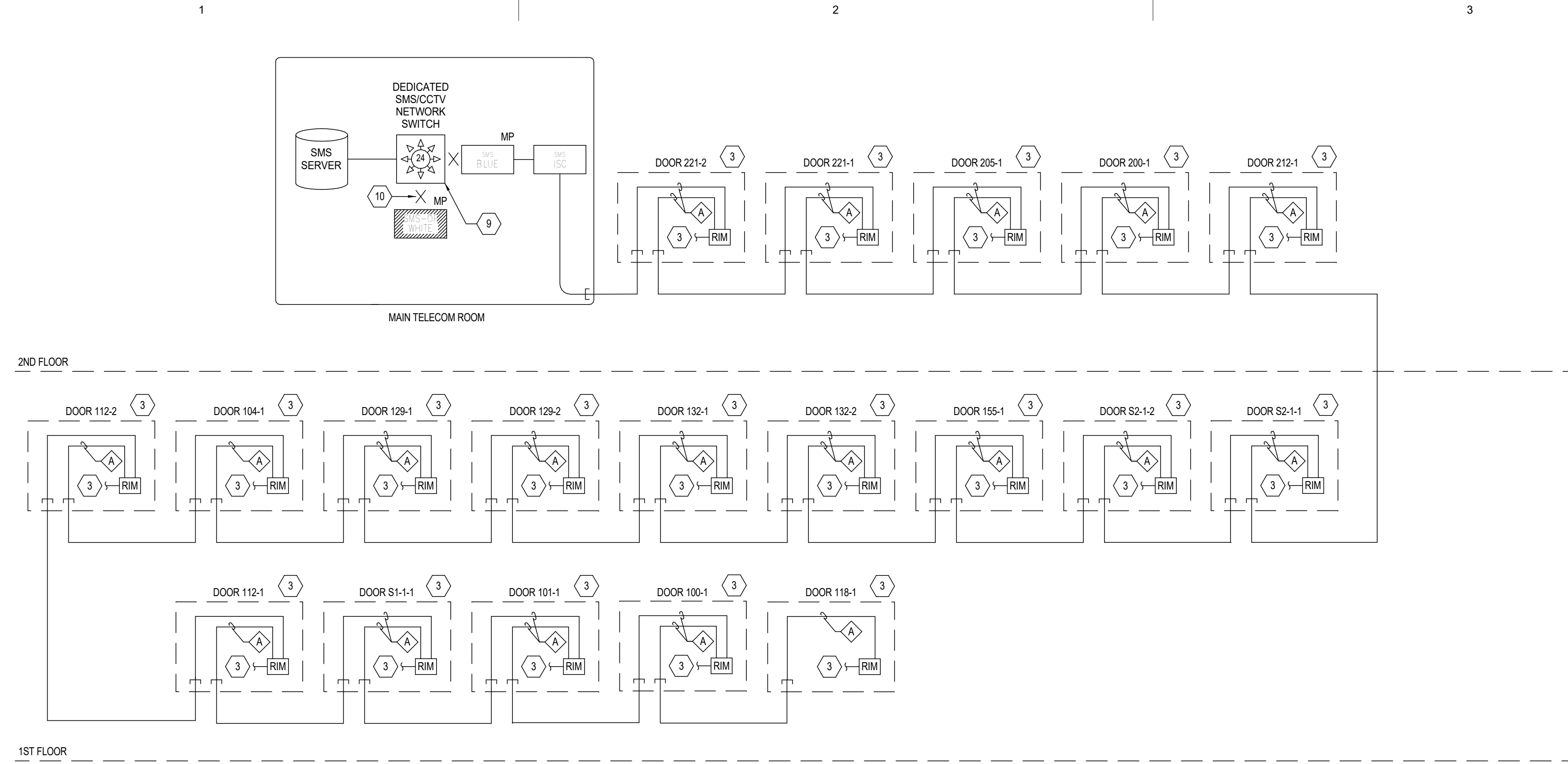
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**E5.02**



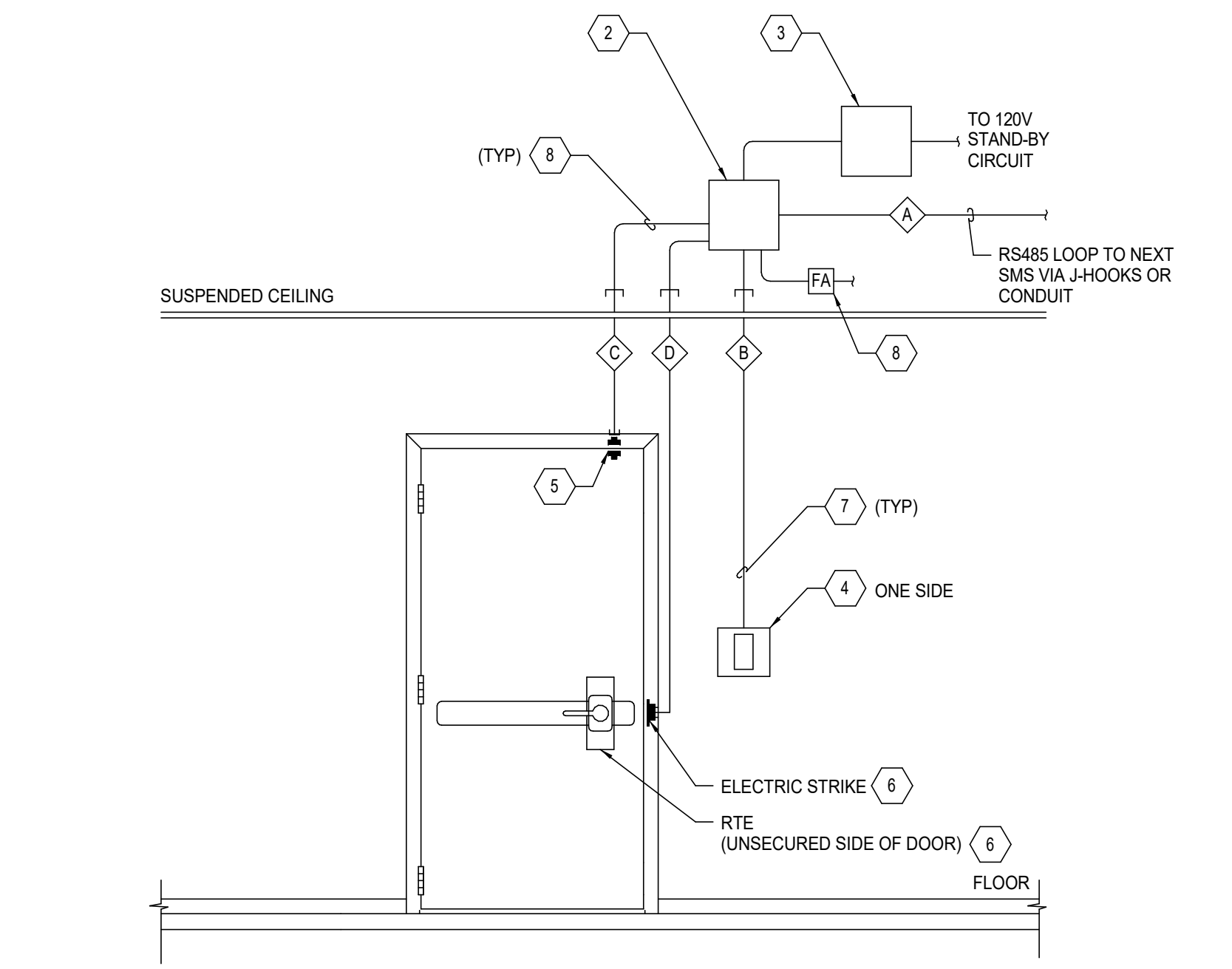
**1 FIRST FLOOR - MECHANICAL ROOM (ELEC)**  
E5.02 Scale: 1/4" = 1'-0"

**2 SECOND FLOOR - FAN ROOM - NORTH - ELEC**  
E5.02 Scale: 1/4" = 1'-0"

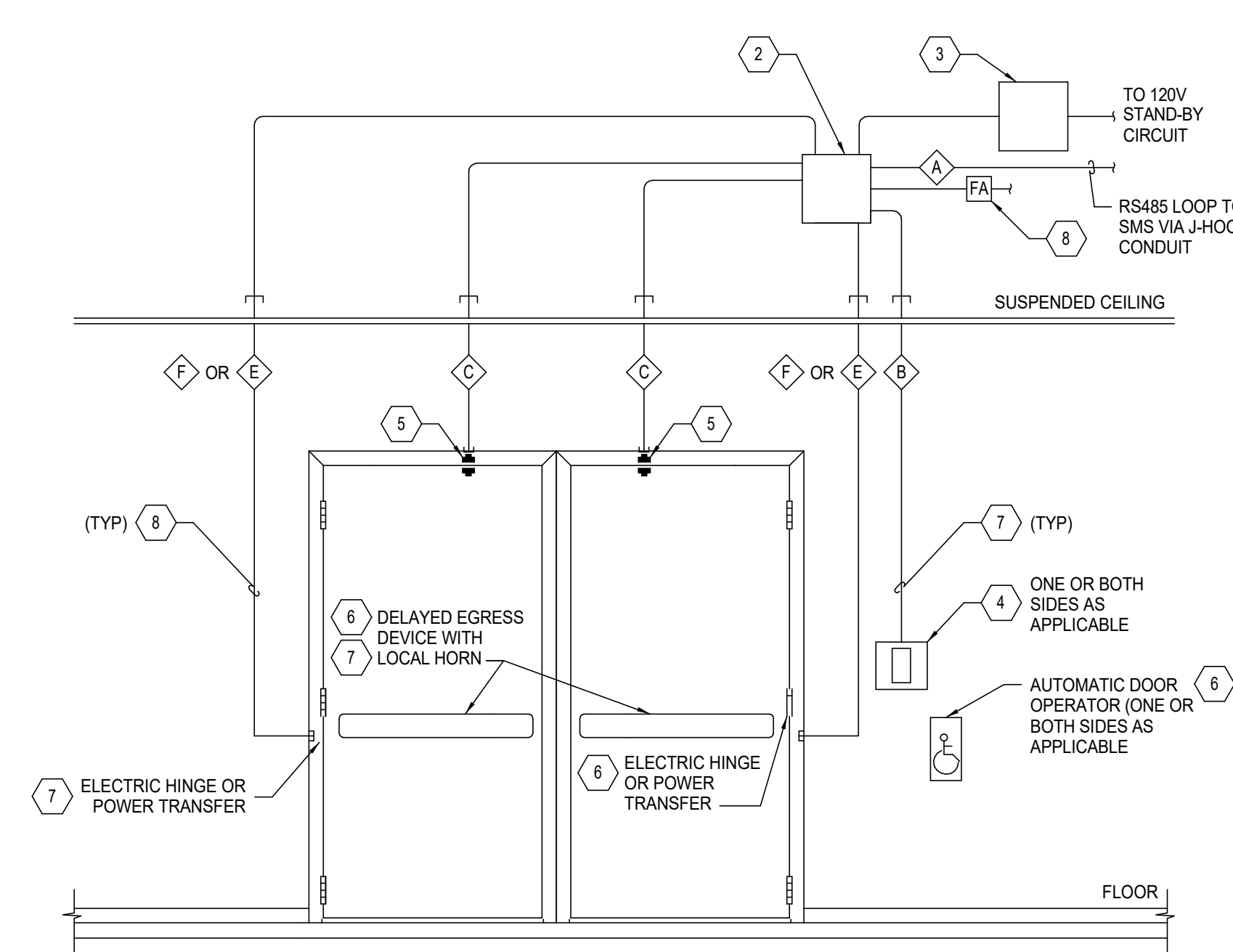
**3 SECOND FLOOR - FAN ROOM - SOUTH - ELEC**  
E5.02 Scale: 1/4" = 1'-0"



**1** DIAGRAM - SECURITY ACCESS SYSTEM (SAS)  
E6.01 SCALE: NONE



**2** DETAIL - SINGLE SMS DOOR  
E6.01 SCALE: NONE



**3** DETAIL - DOUBLE SMS DOOR WITH TWO ACTIVE LEAFS  
E6.01 SCALE: NONE

WIRING SCHEDULE					
DEVICE	LOCATION	TO	WIRE TYPE	PATHWAY	REMARKS
A	RS485	ISC/RIM	RIM	BELDEN #9842 (2) #24AWG	J-HOOKS OR CONDUIT
B	CARD READER	DOOR	RIM	ALPHA #5068/8C (8) #18AWG	J-HOOKS OR CONDUIT
C	DOOR CONTACT	DOOR	RIM	ALPHA #5062 (2) #18AWG	J-HOOKS OR CONDUIT
D	ELECTRIC STRIKE	DOOR	RIM	ALPHA #5064 (4) #18AWG	J-HOOKS OR CONDUIT
E	ELECTRIC HINGE	DOOR	RIM	(4) #18AWG	J-HOOKS OR CONDUIT
F	POWER TRANSFER	DOOR	RIM	(10) #24AWG	J-HOOKS OR CONDUIT

**GENERAL NOTES**

- CLASS 2 WIRING ABOVE ACCESSIBLE CEILING SPACE MAY BE ROUTED THROUGH J-HOOKS AND CABLE TRAY.
- DETAILS ON THIS SHEET ARE REPRESENTATIVE OF MOST SITUATIONS ENCOUNTERED UNDER THIS CONTRACT. ALL DOOR EQUIPMENT AND DEVICES ARE NOT NECESSARILY SHOWN, AND ALL EQUIPMENT SHOWN WILL NOT NECESSARILY BE APPLICABLE TO EACH DOOR. FOR ADDITIONAL INFORMATION REFER TO SPECIAL SYSTEMS FLOOR PLANS AND COORDINATE WITH DIVISION 8 REQUIREMENTS.

**SHEET NOTES**

- REFER TO THE BUILDING FLOOR PLANS FOR LOCATIONS OF DOORS REQUIRING 120V CONNECTION TO AUTOMATIC DOOR OPERATORS. INTERFACE DOOR OPERATOR POWER WITH THE FIRE ALARM SYSTEM SUCH THAT DOORS CLOSE UPON FIRE ALARM. PROVIDE ALL REQUIRED FIRE ALARM SYSTEM ADDRESSABLE RELAYS, ENCLOSURES, PROGRAMMING ETC. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH DIVISION 8.
- PROVIDE SMS RIM IN SMS RIM ENCLOSURE IAW THE MANUFACTURER'S INSTRUCTIONS.
- PROVIDE SMS RIM POWER SUPPLY IAW THE MANUFACTURER'S RECOMMENDATIONS. LOCATE POWER SUPPLY ADJACENT TO SMS ENCLOSURE IN CONCEALED LOCATION WHERE POSSIBLE (i.e. ABOVE ACCESSIBLE CEILING).
- PROVIDE CARD READER(S) ON ONE OR BOTH SIDES OF DOOR AS APPLICABLE. REFER TO THE SPECIAL SYSTEMS FLOOR PLANS, THE ARCHITECTURAL DOOR SCHEDULE, AND DIVISION 8 FOR ADDITIONAL INFORMATION. CONNECT TO SMS RIM IAW THE MANUFACTURER'S INSTRUCTIONS.
- PROVIDE MAGNETIC DOOR CONTACT (BMS). CONNECT TO SMS RIM IAW THE MANUFACTURER'S INSTRUCTIONS.
- DOOR HARDWARE PROVIDED UNDER DIVISION 8. COORDINATE WITH DIVISION 8 TO DETERMINE SCOPE OF WORK AT EACH DOOR AS IT RELATES TO CONNECTION TO AND PROGRAMMING OF THE SMS.
- ROUTE CONDUIT CONCEALED IN WALL INTO THE ACCESSIBLE CEILING SPACE, AS APPROPRIATE.
- PROVIDE FIRE ALARM CONTROL RELAY MODULE TO UNLOCK EMERGENCY EXIT/EGRESS DOORS. LOCATE RELAY WITHIN 36 INCHES OF DEVICE CONTROLLED. REFER TO ARCHITECTURAL AND EMERGENCY EGRESS DRAWINGS AND DIVISION 8 FOR ADDITIONAL INFORMATION AND LOCATIONS OF DOORS REQUIRING FIRE ALARM SYSTEM INTEGRATION.
- PROVIDE ACS/CCTV SYSTEM NETWORK SWITCH.
- PROVIDE FIBER OPTICS CABLE PATCH CORDS AND CONNECT TO THE ACS/CCTV SYSTEM NETWORK SWITCH.

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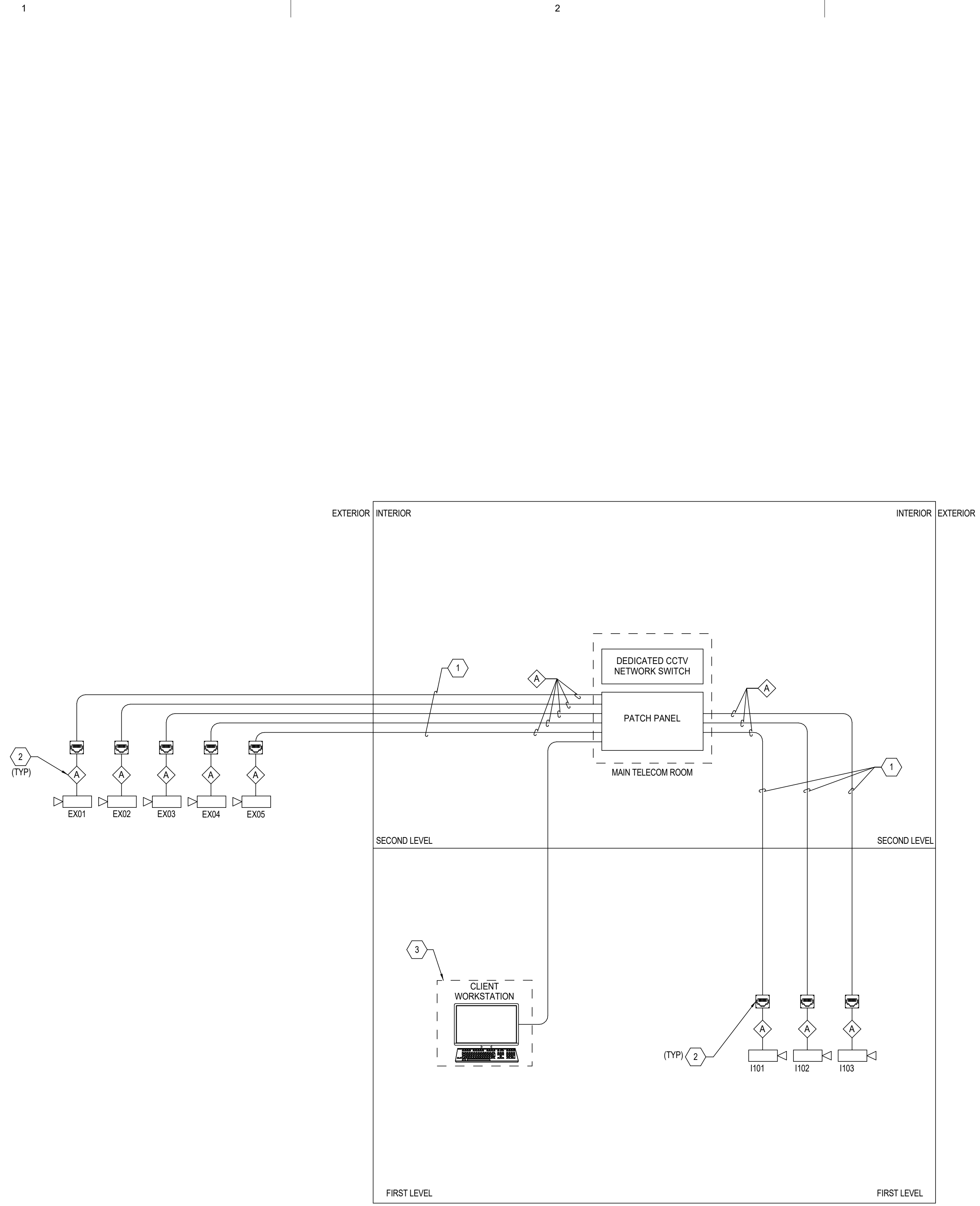
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Sheet Contents  
ACS DETAILS

Sheet No.  
**E6.01**





**GENERAL NOTES**

- REFER TO SPECIAL SYSTEMS FLOOR PLANS FOR ADDITIONAL INFORMATION ON QUANTITIES AND LOCATIONS.

**SHEET NOTES** #

- HORIZONTAL PATHWAYS SHOWN ARE DIAGRAMMATIC REPRESENTATIONS OF TYPICAL PATHWAY CONFIGURATIONS. PROVIDE TELECOM CABLE(S) PER SPECIFICATIONS ROUTED DIRECTLY TO TELECOM ROOM VIA CONCEALED CONDUIT OR VIA J-HOOKS TO CABLE TRAY IN ACCESSIBLE CEILING SPACE.
- PROVIDE RJ-45 PORT TERMINATED IN JUNCTION BOX AT CAMERA LOCATION FOR CONNECTION TO IP CCTV CAMERA. PROVIDE TELECOM HORIZONTAL CABLE FROM OUTLET TO DEDICATED NETWORK VIDEO APPLIANCE IN TELECOM ROOM.
- PROVIDE CLIENT SOFTWARE LICENSE FOR OWNER PROVIDED WORKSTATION IAW SPECIFICATION SECTION 28 2310 AND CONNECT TO THE CCTV SYSTEM NETWORK.

**LEGEND**

C(R) - RECESSED, CEILING	CP - CEILING PENDANT	VF - VARIFOCAL
C(S) - SURFACE, CEILING	EXT - EXTERIOR	P - POLE MOUNTED
W - WALL	ENCL - ENCLOSURE	TYPE A - 3 MEGAPIXEL (INTERIOR)
PTZ - PAN/TILT/ZOOM	ES - EXTERIOR STANCHION	TYPE B - 3 MEGAPIXEL (EXTERIOR)
CL - COLUMN	INT - INTERIOR	
CN - CORNER	VF - VARIFOCAL	

X X X X  
 — SEQUENTIAL CAMERA # (FROM 01 TO 99)  
 — LEVEL - (1) FIRST LEVEL (2) SECOND LEVEL  
 — INTERIOR (I) OR EXTERIOR (EX)

**IP CAMERA SCHEDULE**

NO	CAMERA ID	SHEET NO.	LOCATION TYPE	LEVEL	LENS TYPE	CAMERA TYPE	MOUNT
1	EX01	E4.10	EXT	1	VF w/AUTO IRIS	TYPE B	W
2	EX02	E4.10	EXT	1	VF w/AUTO IRIS	TYPE B	W
3	EX03	E4.10	EXT	1	VF w/AUTO IRIS	TYPE B	W
4	EX04	E4.10	EXT	1	VF w/AUTO IRIS	TYPE B	W
5	EX05	E4.10	EXT	1	VF w/AUTO IRIS	TYPE B	W
6	I101	E4.10	INT	1	VF w/AUTO IRIS	TYPE A	C(S)
7	I102	E4.10	INT	1	VF w/AUTO IRIS	TYPE A	C(S)
8	I103	E4.10	INT	1	VF w/AUTO IRIS	TYPE A	C(S)

**CABLE DESCRIPTIONS**

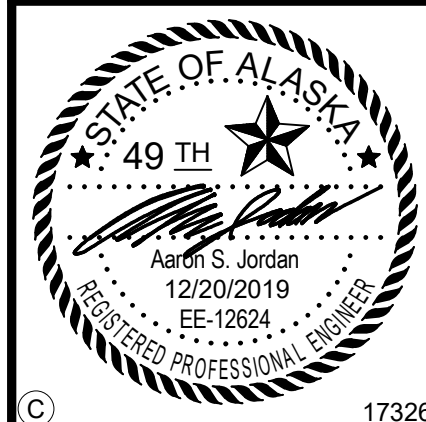
SYMBOL	DESCRIPTION
A	PROVIDE CATEGORY 6 UTP CABLE IAW SPECIFICATIONS
B	PROVIDE OSP RATED CATEGORY 6 UTP CABLE IAW SPECIFICATIONS.



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YAKUTAT TLINGIT TRIBE  
**YAKUTAT COMMUNITY HEALTH CENTER**  
 YAKUTAT, ALASKA

**Revisions**

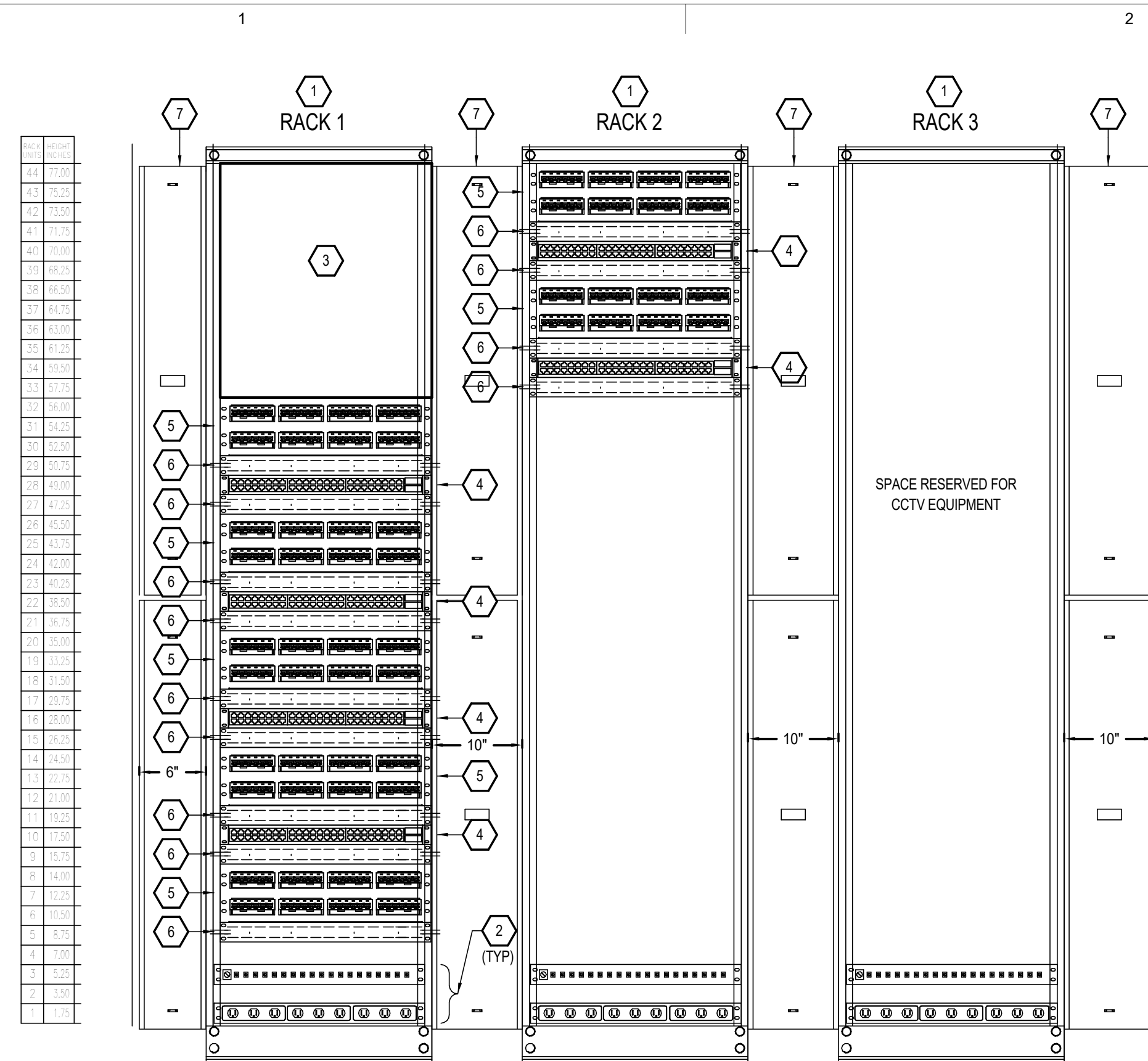
No.	Description	Date

Drawn by ERP/TRC	Date 12/23/19
Checked ASJ	Job No. 17046.01

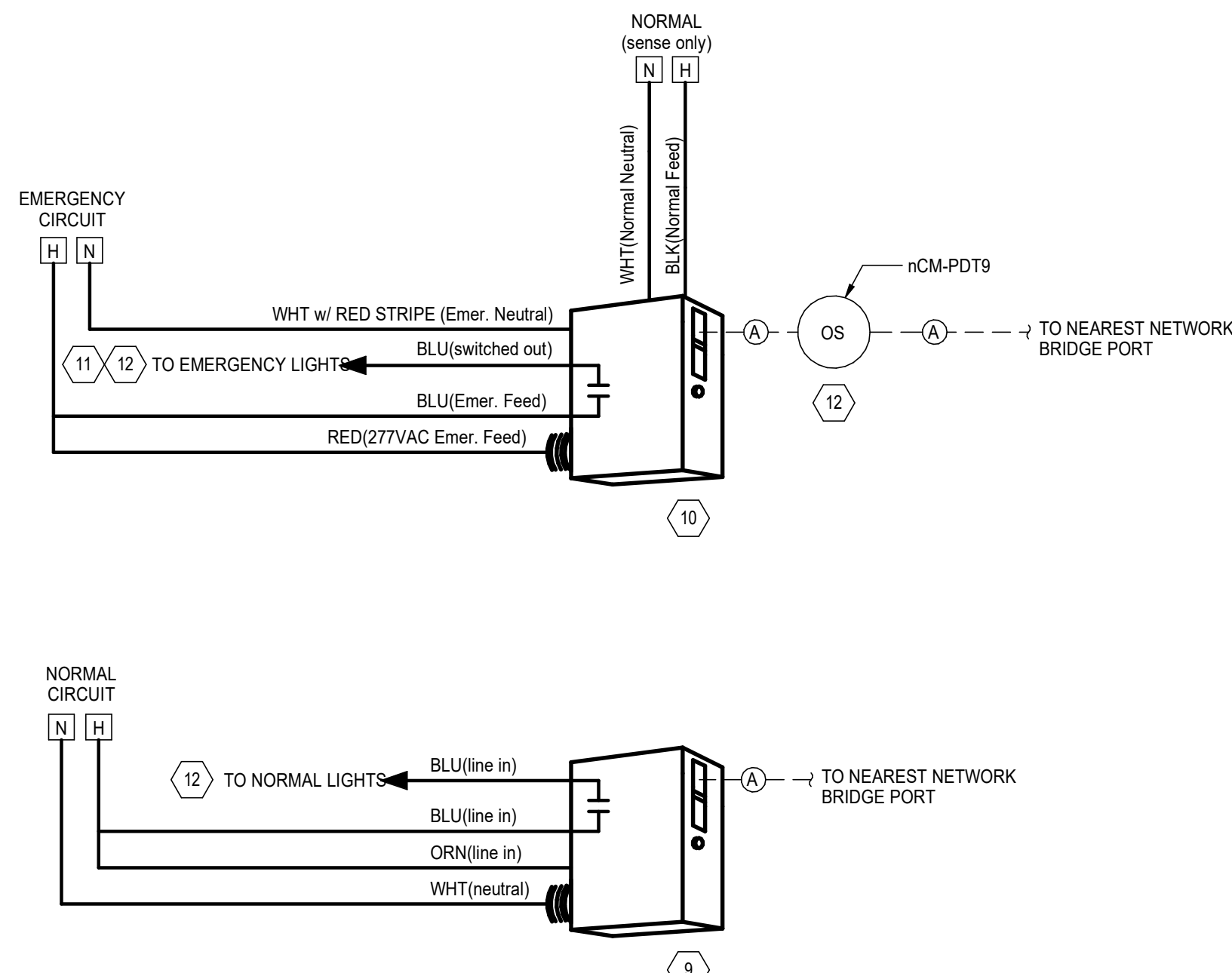
Sheet Contents  
 CCTV DIAGRAM

Sheet No.  
**E6.02**

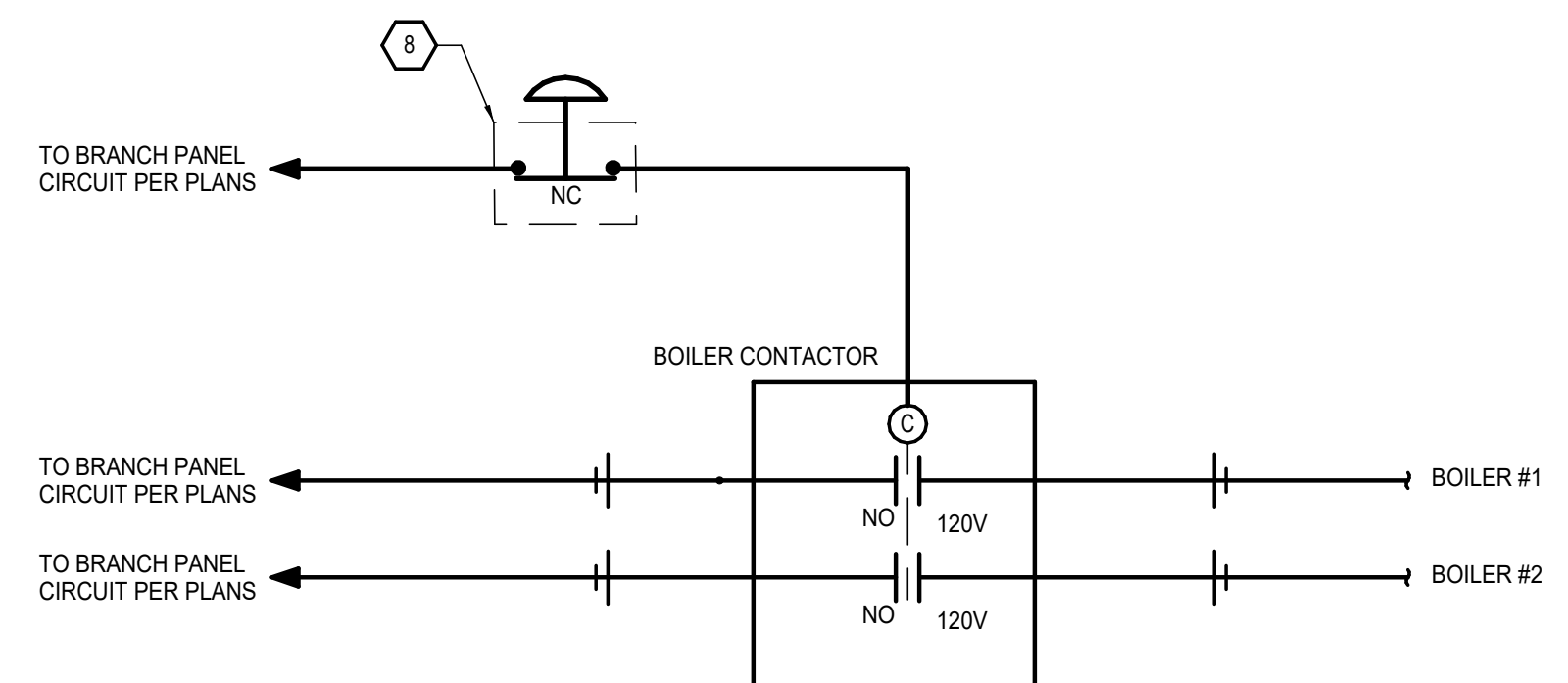
**1** DETAIL - CCTV RISER DIAGRAM  
 E6.02 SCALE: NONE



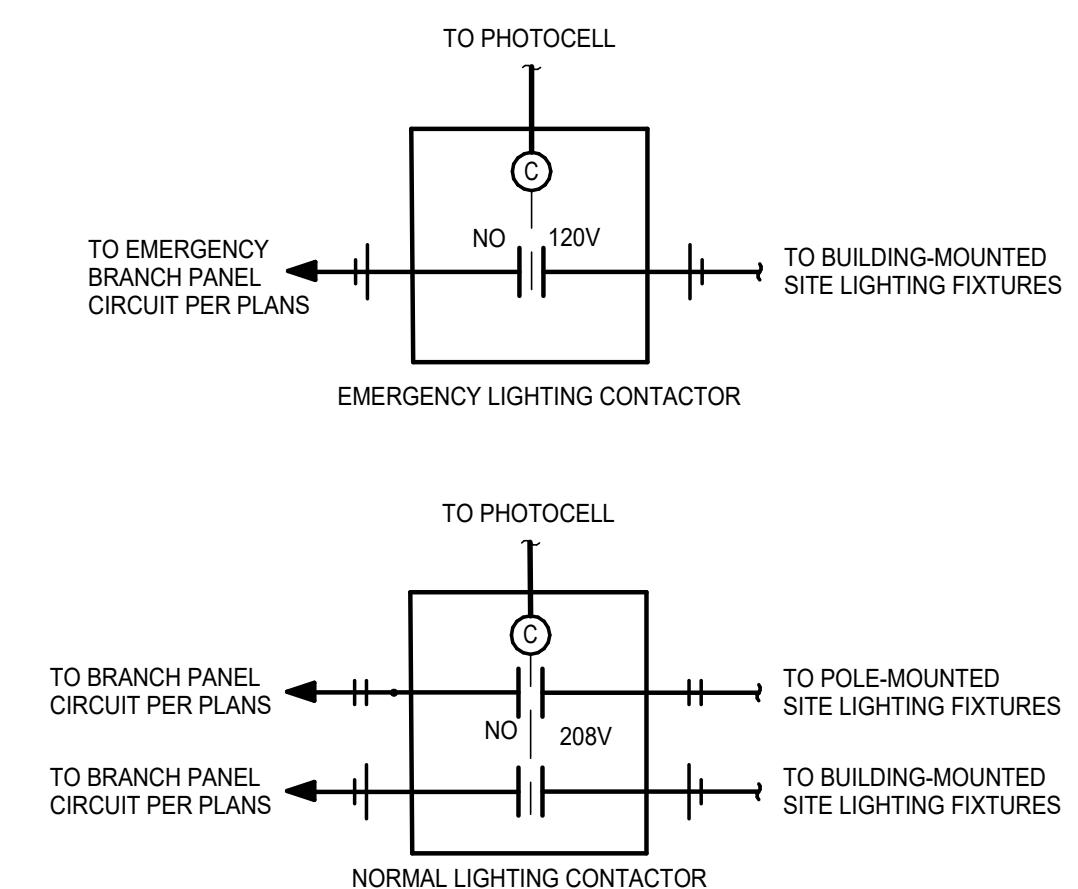
**1** DETAIL - TELECOM RACK ELEVATIONS  
E6.03 SCALE: NONE



**4** DETAIL - CORRIDOR & STAIRWELL LIGHTING CONTROL  
E6.03 SCALE: NONE



**2** DETAIL - BOILER EMERGENCY SHUTDOWN SWITCH  
E6.03 SCALE: NONE



**3** DETAIL - EXTERIOR LIGHTING CONTACTORS  
E6.03 SCALE: NONE

**GENERAL NOTES**

1. PATCH CORDS BETWEEN CFCI PATCH PANELS AND OFOI NETWORK SWITCHES ARE TO BE CFCI.

**SHEET NOTES**

1. PROVIDE TELECOM RACK IAW THE TELECOM SPECIFICATIONS.
2. PROVIDE RACK MOUNTED GROUNDING BUSBAR AND POWER STRIP IAW THE TELECOM SPECIFICATIONS. CONNECT POWER STRIP TO FLOOR MOUNTED RECEPTACLE.
3. PROVIDE OPTICAL FIBER SPLICE TRAY AND PATCH PANEL IAW THE TELECOM SPECIFICATIONS.
4. OFOI RACK MOUNTED NETWORK SWITCH
5. PROVIDE RACK MOUNTED PATCH PANEL IAW THE TELECOM SPECIFICATIONS.
6. PROVIDE HORIZONTAL CABLE MANAGEMENT IAW THE TELECOM SPECIFICATIONS.
7. PROVIDE VERTICAL CABLE MANAGEMENT IAW THE TELECOM SPECIFICATIONS.
8. PROVIDE 2 POSITION PUSH-PULL, LED ILLUMINATED, RED KNOB, WITH "EMERGENCY STOP" PRINTED ON KNOB, MUSHROOM TYPE BUTTON, FOR REMOTE SHUTDOWN OF AUTOMATICALLY FIRED BOILERS IAW ASME. PROVIDE FLIP UP POLYCARBONATE COVER OVER BUTTON. PROVIDE LABEL TO READ "BOILER EMERGENCY SHUTDOWN". REFER TO ENLARGED PLANS ON SHEET E5.01 FOR ADDITIONAL INFORMATION.
9. PROVIDE RELAY PACK FOR ON/OFF CONTROL OF NORMAL CORRIDOR LIGHTING (QUANTITIES AS REQUIRED).
10. PROVIDE UL LISTED EMERGENCY LIGHTING RELAY PACK FOR CONTROL OF CORRIDOR EMERGENCY LIGHTING (QUANTITIES AS REQUIRED).
11. CORRIDOR LIGHTING SHALL BE SCHEDULED ON FROM THE HOURS OF 5:00AM TO 9:00PM, SCHEDULE TIMES TO BE CONFIRMED WITH OWNER.
12. AFTER HOURS CORRIDOR LIGHTING SHALL BE CONTROLLED BY OCCUPANCY SENSOR AND SHALL CONTROL ONLY THE EMERGENCY EGRESS LIGHTING FOR THE CORRIDORS.

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STATE OF ALASKA  
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12/20/2019  
EE-12624  
REGISTERED PROFESSIONAL ENGINEER  
17326

YAKUTAT TLINGIT TRIBE  
**YAKUTAT COMMUNITY HEALTH CENTER**  
YAKUTAT, ALASKA

Revisions		
No.	Description	Date

Drawn by ERP/TRC	Date 12/23/19
Checked ASJ	Job No. 17046.01

Sheet Contents  
DETAILS & DIAGRAMS

Sheet No.  
**E6.03**

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Sheet Contents  
 TELECOM ONE-LINE DIAGRAM

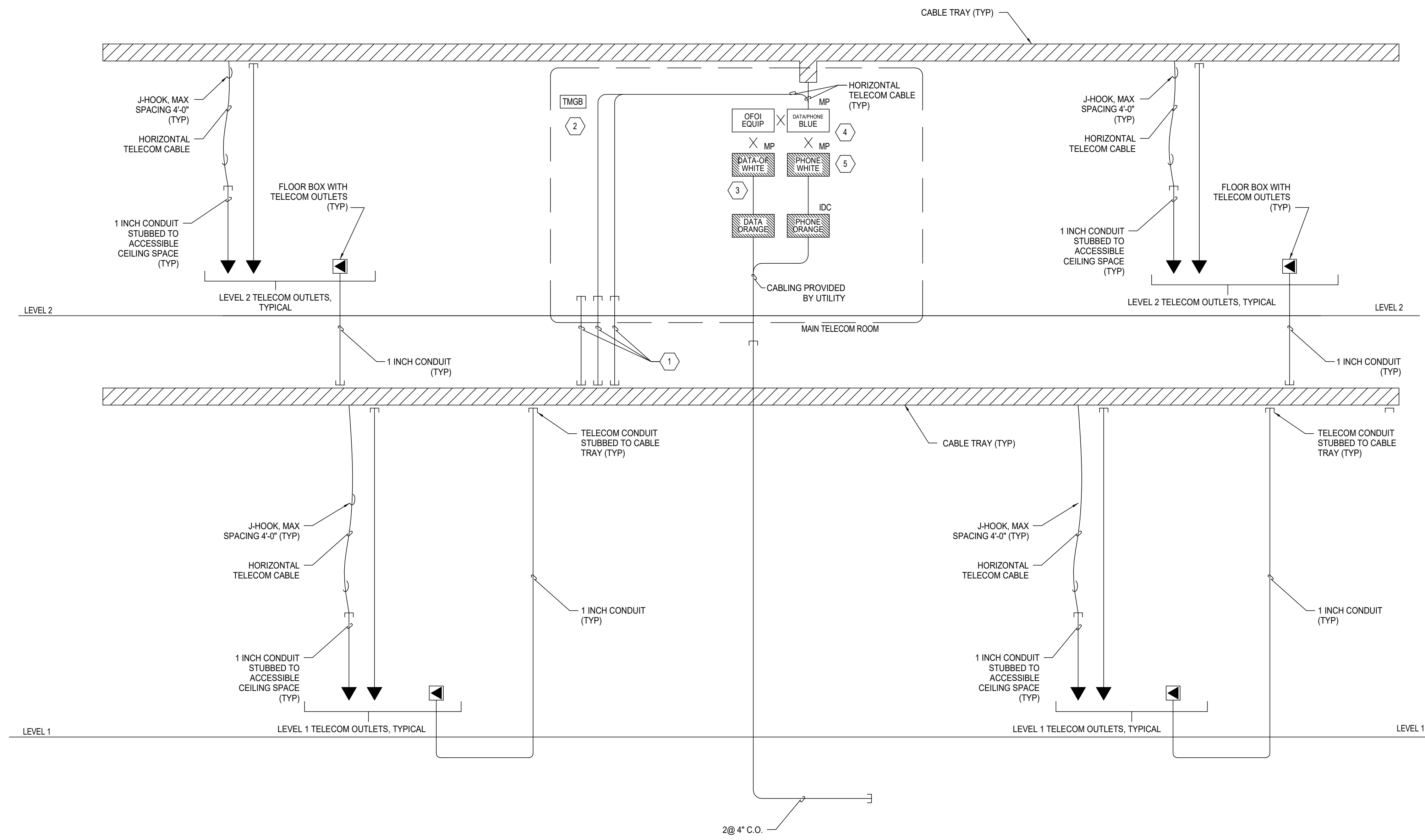
Sheet No.  
**E7.01**

**GENERAL NOTES**

- HORIZONTAL PATHWAYS SHOWN ARE DIAGRAMMATIC REPRESENTATIONS OF TYPICAL PATHWAY CONFIGURATIONS. TELECOM CABLES SHALL BE ROUTED TO THE TELECOM ROOM DIRECTLY IN CONDUIT OR VIA AVAILABLE HORIZONTAL CABLE TRAYS.
- REFER TO ENLARGED TELECOM ROOM PLAN FOR ADDITIONAL INFORMATION.

**SHEET NOTES**

- PROVIDE 3@ 4 INCH CONDUITS ROUTED FROM LEVEL 2 TELECOM ROOM TO CABLE TRAY IN ACCESSIBLE CEILING SPACE OF LEVEL 1. PROVIDE FIRE STOPPING FOR CONDUITS IAW THE SPECIFICATIONS.
- PROVIDE TELECOM MAIN GROUNDING BUS IAW THE SPECIFICATIONS. LOCATE GROUNDING BUS IAW THE ENLARGED PLAN ON SHEET E5.01.
- PROVIDE RACK MOUNTED FIBER OPTIC CABLE PATCH PANELS. PROVIDE PATCH PANELS IN SUFFICIENT QUANTITY TO TERMINATE FIBER OPTIC CABLES PROVIDED PLUS 10 PERCENT SPARE.
- PROVIDE RACK MOUNTED HORIZONTAL TELECOM CABLE PATCH PANELS. PROVIDE PATCH PANELS IN SUFFICIENT QUANTITY TO TERMINATE HORIZONTAL TELECOM CABLES PROVIDED PLUS 10 PERCENT SPARE.
- PROVIDE RACK MOUNTED PATCH PANELS. PROVIDE PATCH PANELS IN SUFFICIENT QUANTITY TO TERMINATE THE NUMBER OF COPPER VOICE BACKBONE PAIRS.



**LEGEND**

- LEC LOCAL EXCHANGE CARRIER (TELEPHONE COMPANY)
- X CROSS-CONNECT
- TBB TELECOMMUNICATION BONDING BACKBONE
- OF OPTICAL FIBER CABLE
- MP MODULAR PATCH PANEL
- IDC INSULATION DISPLACEMENT CONNECTOR BLOCK
- [Hatched Box] TELEPHONE CONNECTING HARDWARE (110 BLOCKS)  
 LABEL COLOR AS INDICATED  
 QUANTITY TO MATCH CONNECTED CABLES
- [Hatched Box] DATA/TELEPHONE CONNECTING HARDWARE  
 LABEL COLOR AS INDICATED  
 QUANTITY TO MATCH CONNECTED CABLES
- [Hatched Box] DATA CONNECTING HARDWARE  
 LABEL COLOR AS INDICATED  
 QUANTITY TO MATCH CONNECTED CABLES

**1 TELECOM ONE-LINE DIAGRAM**  
 E7.01 SCALE: NONE

FEEDER SCHEDULE			
FEEDER TAG	EQUIPMENT	FEEDER	LENGTH
050V1			
050V1	1EPA	1-1/4" C, 4# AL, #4 AL G	123'
050V1	2EPA	1-1/4" C, 4# AL, #4 AL G	71'
050V2			
050V2	0SP1	1-1/4" C, 4#2 AL, #2 AL G	194'
050V2			194'
100E			
100E	ELEVATOR	1-1/2" C, 4-1/0 AL, 1/0 AL G	122'
100E			122'
100F1			
100F1	FP ATS/CONT (PRIMARY)	1-1/4" C, 4#1 AL	45'
100F1			45'
100F2			
100F2	FP ATS/CONT (SECONDARY)	1-1/4" C, 3#1 AL, #6 AL G	189'
100F2			189'
1004			
1004	1EP-DP	1-1/4" C, 4#1 AL, #6 AL G	19'
1004	ATS-E (SECONDARY)	1-1/4" C, 4#1 AL, #6 AL G	200'
1004	ATS-E (PRIMARY)	1-1/4" C, 4#1 AL, #6 AL G	23'
1004			242'
150V			
150V	1SPD	2" C, 4-4/0 AL, #2 AL G	114'
150V	1SPC	2" C, 4-4/0 AL, #2 AL G	100'
1504			213'
1504	1SPA	2" C, 4-3/0 AL, #4 AL G	18'
1504	2SPA	2" C, 4-3/0 AL, #4 AL G	62'
1753			80'
1753	CH-1	1-1/2" C, 3-2/0 AL, #4 AL G	86'
1753			86'
200V			
200V	2SPC	2-1/2" C, 4-300kcmil AL, #2 AL G	188'
200V			188'
2004			
2004	1SPB	2-1/2" C, 4-250kcmil AL, #4 AL G	48'
2004	2SPB	2-1/2" C, 4-250kcmil AL, #4 AL G	52'
2004	2SPD	2-1/2" C, 4-250kcmil AL, #4 AL G	15'
2004			116'
6004			
6004	ATS-S (SECONDARY)	(2)3" C, 4-500kcmil AL, 2/0 AL G	208'
6004			208'
8004			
8004	1SP-DP	(3)3" C, 4-400kcmil AL, 3/0 AL G	8'
8004	ATS-S (PRIMARY)	(3)3" C, 4-400kcmil AL, 3/0 AL G	18'
8004			25'
12004			
12004	MDP	(4)4" C, 4-500kcmil AL, 250kcmil AL G	76'
12004			76'

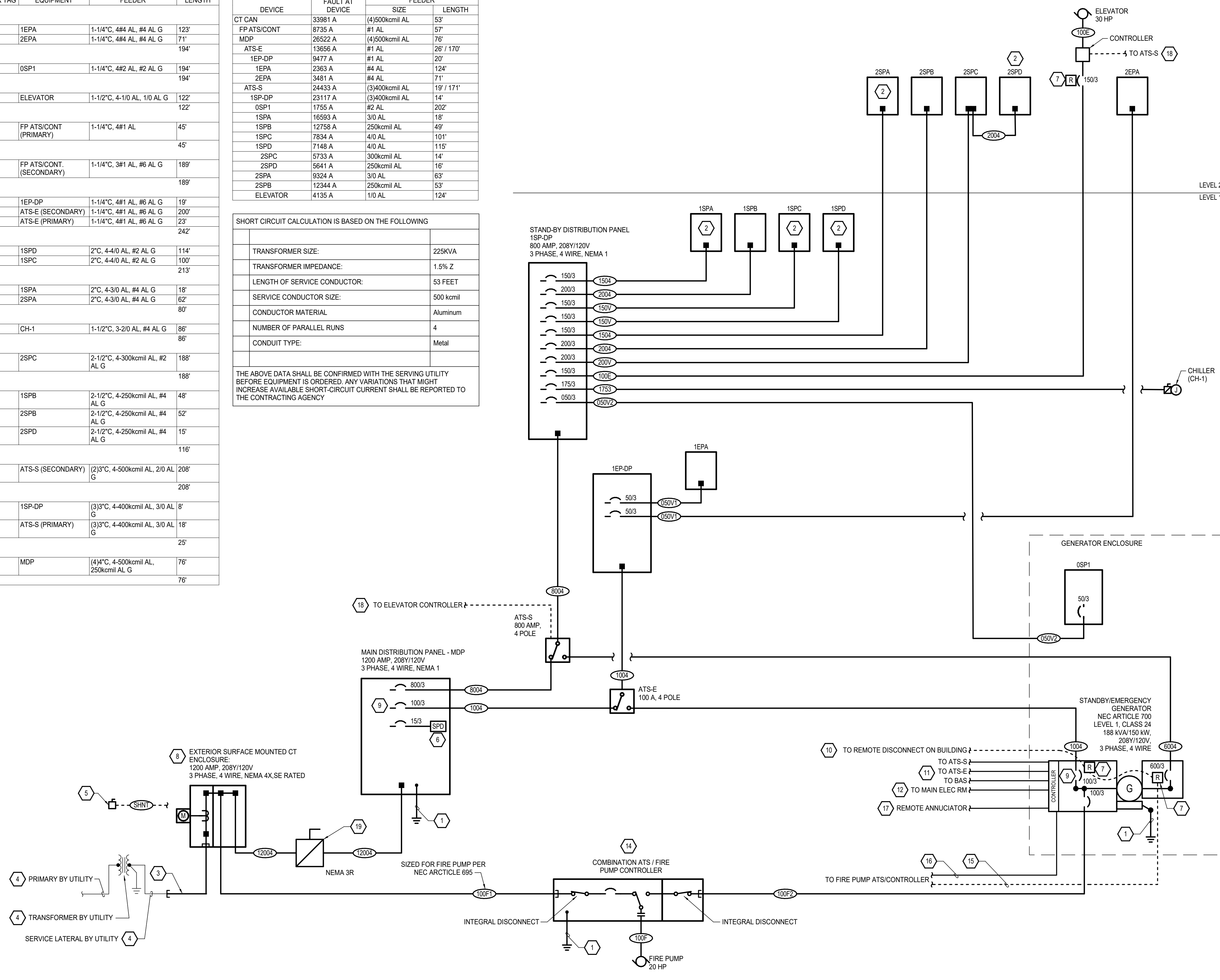
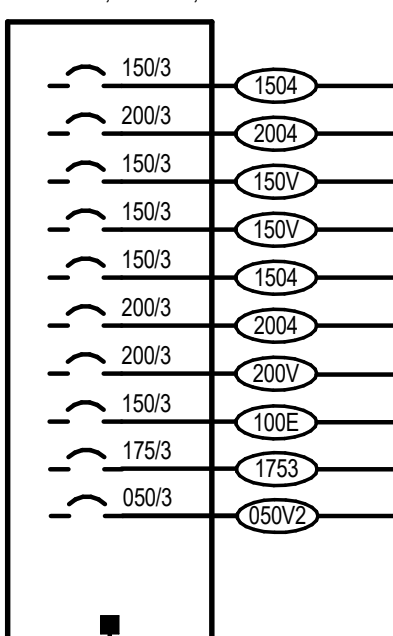
FAULT CURRENT SCHEDULE			
DEVICE	FAULT AT DEVICE	FEEDER	
		SIZE	LENGTH
CT CAN	33981 A	(4)500kcmil AL	53'
FP ATS/CONT	8735 A	#1 AL	57'
MDP	26522 A	(4)500kcmil AL	76'
ATS-E	13656 A	#1 AL	26' / 170'
1EP-DP	9477 A	#1 AL	20'
1EPA	2363 A	#4 AL	124'
2EPA	3481 A	#4 AL	71'
ATS-S	24433 A	(3)400kcmil AL	19' / 171'
1SP-DP	23117 A	(3)400kcmil AL	14'
0SP1	1755 A	#2 AL	202'
1SPA	16593 A	3/0 AL	18'
1SPB	12758 A	250kcmil AL	49'
1SPC	7834 A	4/0 AL	101'
1SPD	7148 A	4/0 AL	115'
2SPC	5733 A	300kcmil AL	14'
2SPD	5641 A	250kcmil AL	16'
2SPA	9324 A	3/0 AL	63'
2SPB	12344 A	250kcmil AL	53'
ELEVATOR	4135 A	1/0 AL	124'

SHORT CIRCUIT CALCULATION IS BASED ON THE FOLLOWING

TRANSFORMER SIZE:	225KVA
TRANSFORMER IMPEDANCE:	1.5% Z
LENGTH OF SERVICE CONDUCTOR:	53 FEET
SERVICE CONDUCTOR SIZE:	500 kcmil
CONDUCTOR MATERIAL:	Aluminum
NUMBER OF PARALLEL RUNS:	4
CONDUIT TYPE:	Metal

THE ABOVE DATA SHALL BE CONFIRMED WITH THE SERVING UTILITY BEFORE EQUIPMENT IS ORDERED. ANY VARIATIONS THAT MIGHT INCREASE AVAILABLE SHORT-CIRCUIT CURRENT SHALL BE REPORTED TO THE CONTRACTING AGENCY

STAND-BY DISTRIBUTION PANEL  
1SP-DP  
800 AMP, 208Y/120V  
3 PHASE, 4 WIRE, NEMA 1



**GENERAL NOTES**

- ESTIMATED FEEDER LENGTHS ARE BASED ON ASSUMED ROUTING DERIVED FROM THE DESIGN MODEL AND SHALL NOT BE UTILIZED FOR CONTRACTOR PRICING. ACTUAL LENGTHS ARE DEPENDENT ON THE MEANS AND METHODS OF THE CONTRACTOR'S WORK.

**SHEET NOTES**

- PROVIDE GROUNDING IN ACCORDANCE WITH NEC ARTICLE 250.
- PROVIDE BRANCH CIRCUIT PANEL WITH SURGE PROTECTIVE DEVICE (SPD) INTEGRATED INTO PANEL.
- PROVIDE CONDUIT STUB OUT TO UTILITY TRANSFORMER IN ACCORDANCE WITH UTILITY SERVICE REQUIREMENTS.
- COMPLY WITH UTILITY SERVICE REQUIREMENTS.
- PROVIDE NEMA 4X, NON-FUSED DISCONNECT TO FUNCTION AS REMOTE SHUNT TRIP DISCONNECT FOR GENERATOR. DISCONNECT SHALL BE WIRED SUCH THAT WHEN THE HANDLE IS IN THE "OFF" POSITION THE SHUNT TRIP DEVICE WILL BE TRIPPED. PROVIDE ELECTRICAL INTERLOCK KIT WITH THE DISCONNECT TO ENABLE THIS FUNCTIONALLY. LOCATE SHUNT TRIP DISCONNECT ADJACENT TO EXTERIOR CT ENCLOSURE AND MAIN DISCONNECT. PROVIDE ENGRAVED NAMEPLATE TO READ: "GENERATOR SHUNT TRIP DISCONNECT"
- PROVIDE SERVICE ENTRANCE SPD.
- PROVIDE SHUNT TRIP BREAKER.
- PROVIDE METER BASE AND CT ENCLOSURE IN ACCORDANCE WITH UTILITY REQUIREMENTS.
- PROVIDE ADJUSTABLE ELECTRONIC TRIP LSI BREAKER ON THE EMERGENCY BRANCH TO ENSURE PROPER COORDINATION AS REQUIRED BY NEC 700.27
- PROVIDE 1 INCH CONDUIT AND #12AWG CONDUCTORS FROM GENERATOR ENCLOSURE TO REMOTE SHUNT TRIP DISCONNECT. ROUTE CONDUIT THROUGH MAIN ELECTRICAL ROOM.
- PROVIDE 3 @ 1 INCH CONDUITS FOR CONTROL/COMMUNICATION TO BAS AND ATS's. COORDINATE EXACT CABLING REQUIREMENTS WITH GENERATOR MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE SPARE 2-1/2 INCH CONDUIT ONLY FROM GENERATOR ENCLOSURE TO MAIN ELECTRICAL ROOM.
- PROVIDE INSTANTANEOUS TRIP CIRCUIT BREAKER LOCKABLE IN THE "ON" POSITION. PROVIDE ENGRAVED LABEL INDICATING "FIRE PUMP DISCONNECTING MEANS" WITH 1 INCH LETTERS.
- PROVIDE PLACARD(S) ADJACENT TO THE FIRE PUMP CONTROLLER STATING THE LOCATION OF THE ALTERNATE POWER SOURCE DISCONNECTING MEANS AND THE LOCATION(S) OF THE ASSOCIATED KEY(S) IAW NEC ARTICLE 695.
- PROVIDE 1 @ 3/4 INCH CONDUIT BETWEEN GENERATOR AND COMBINATION ATS / FIRE PUMP CONTROLLER FOR STANDBY LOAD SHEDDING. PROVIDE CONNECTION BETWEEN COMBINATION ATS / FIRE PUMP CONTROLLER AND GENERATOR STANDBY BREAKER SUCH THAT OPERATION OF FIRE PUMP WHILE FIRE PUMP ATS IS CONNECTED TO ALTERNATE (GENERATOR) POWER SOURCE CAUSES THE SHUNT TRIP DEVICE TO TRIP STANDBY BREAKER.
- PROVIDE 1 @ 3/4 INCH CONDUIT FOR CONTROL/COMMUNICATION TO FIRE PUMP ATS. COORDINATE EXACT CABLING REQUIREMENTS WITH GENERATOR AND COMBINATION ATS / FIRE PUMP CONTROLLER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MONITORING OF CABLING INTEGRITY IAW NEC ARTICLE 695. LOSS OF INTEGRITY OF THE REMOTE START CIRCUIT(S) SHALL INITIATE VISUAL AND AUDIBLE ANNUNCIATION OF GENERATOR MALFUNCTION AT THE GENERATOR LOCAL AND REMOTE ANNUNCIATOR(S) AND START THE GENERATOR.
- PROVIDE 1 @ 1 INCH CONDUIT FOR GENERATOR REMOTE ANNUNCIATOR. COORDINATE EXACT CABLING REQUIREMENTS WITH GENERATOR MANUFACTURER. REFER TO SHEET E3.01 FOR ANNUNCIATOR LOCATION.
- PROVIDE CONNECTION BETWEEN ATS-S AND ELEVATOR CONTROLLER TO NOTIFY ELEVATOR CONTROLLER WHEN BUILDING IS ON STANDBY POWER.
- PROVIDE DISCONNECT WITH 3 @ 1200A FUSES AND 3 SPARE FUSES.

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Revisions

No.	Description	Date
1	RFI-13	10/02/2019

Drawn by	ERP/TRC	Date	12/23/19
Checked	ASJ	Job No.	17046.01

Sheet Contents  
POWER ONE-LINE DIAGRAM

Sheet No.  
**E8.01**

**1 POWER ONE-LINE DIAGRAM**  
E8.01 SCALE: NONE