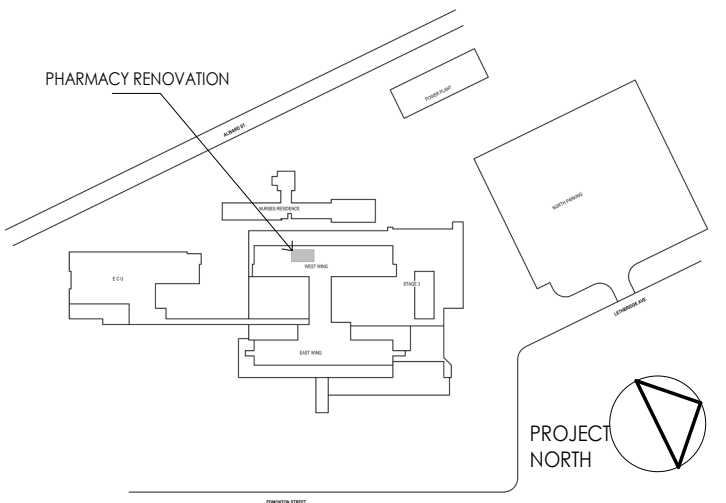


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Notes



DRAWING INDEX	
NO.	DRAWING NAME
ELECTRICAL	
E001	COVER PAGE
E010	SYSTEM OVERVIEW
E100	POWER AND SYSTEMS FLOOR PLAN - PHARMACY
E101	POWER & SYSTEMS FLOOR PLAN - ROOF PLANS
E200	LIGHTING PLAN - PHARMACY
E300	PANEL SCHEDULES
E301	LUMINAIRE AND MECHANICAL SCHEDULES
E400	ELECTRICAL DETAILS

GENERAL NOTES

- DO NOT SCALE THE DRAWINGS. OBTAIN ACCURATE DIMENSIONS FROM THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL COMPLETE A DETAILED REVIEW OF THE ARCHITECTURAL DRAWINGS TO COORDINATE INSTALLATION OF FEEDERS AND DEVICE FEEDS INTO THE BUILDING STRUCTURE.
- CONTRACTOR SHALL FIRESTOP ALL NEW CABLE/CONDUIT PENETRATIONS THROUGH WALLS AND FLOORS.
- WORK SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND THEIR INTENT. WORK SHALL INCLUDE THE PROVISION FOR BUT NOT LIMITED TO ALL MATERIALS, LABOUR, TOOLS, EQUIPMENT AND SERVICES REQUIRED FOR CONSTRUCTING, INSTALLING AND PUTTING INTO REGULAR OPERATION THE COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THIS DOCUMENT.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL EXPOSED TO VIEW DEVICES, LIGHTING AND EQUIPMENT. EXAMINE AND BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT BY WRITTEN NOTICE FOR CLARIFICATION.
- NOT ALL SYMBOLS INDICATED IN THE SYMBOL SCHEDULES ARE USED IN THE DRAWINGS.

GENERAL SYMBOLS	
#	NOTE REFERENCE
#/###	EQUIPMENT REFERENCE
#	REVISION NUMBER
W	WIRING HOME RUN
E004/1	DETAIL REFERENCE (1 DENOTES DETAIL NUMBER, E004 DENOTES SHEET NUMBER)

SECURITY/ACCESS CONTROL SYMBOLS	
CR	CARD READER
CK	CARD READER AND KEYPAD
EDS	ELECTRONIC DOOR STRIKE
ML	MAGNETIC LOCK
DC	DOOR CONTACT
DP	DOOR POSITION SWITCH
RE	REQUEST TO EXIT WALL MOUNTED SENSOR
W	WAVE TO OPEN PUSHBUTTON
EM	EMERGENCY PANIC PUSHBUTTON
ADO	AUTOMATIC DOOR OPENER
EL	ELECTRIFIED LOCK SET
CS	CEILING MOUNTED SECURITY CAMERA

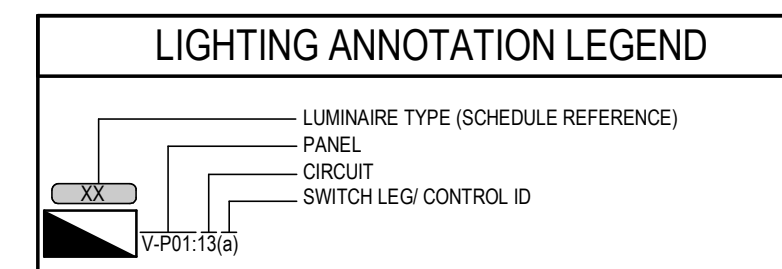
TELECOMMUNICATIONS SYMBOLS	
#	WALL MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CAT 6A CABLES)
INTERCOM	WALL MOUNTED BI-DIRECTIONAL INTERCOM
#	CEILING MOUNTED DATA OUTLET (#DENOTES NUMBER OF DATA DROPS)
WAP	WIRELESS ACCESS POINT (PROCURED BY OTHERS, INSTALLED BY CONTRACTOR)
CR	CLOCK RECEPTACLE

ABBREVIATIONS	
AV	AUDIO-VISUAL
ADO	AUTOMATIC DOOR OPENER
AFF	ABOVE FINISHED FLOOR
EX	EXISTING EQUIPMENT TO REMAIN
WAP	WIRELESS ACCESS POINT
BMS	BUILDING MANAGEMENT SYSTEM
FR	FRIDGE/FREEZER
RE	EXISTING EQUIPMENT TO BE REMOVED
RL	EXISTING EQUIPMENT IN A RELOCATED POSITION
HK	HOUSEKEEPING
JB	JUNCTION BOX
LC	LIGHTING CONTROL
MW	MICROWAVE
PC	PERSONAL COMPUTER
TYP	TYPICAL
UC	UNDERCOUNTER
WP	WEATHERPROOF
WRK	STAFF WORKSTATION
GF	GROUND FAULT CIRCUIT INTERRUPTER
ADO	AUTOMATIC DOOR OPENER

FIRE ALARM SYMBOLS	
F	MANUAL STATION
B	BELL
HS	HORN SPEAKER
CS	CONE SPEAKER
SD	SMOKE DETECTOR
DC	SMOKE DETECTOR, DC DENOTES DUAL CONTACT
DS	SMOKE DETECTOR, DUCT MOUNTED
SA	SMOKE ALARM
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
CAF	CENTRAL ALARM & CONTROL FACILITY
ET	EMERGENCY TELEPHONE
CT	FA CONTROL TERMINAL
H	FIRE ALARM MAGNETIC DOOR HOLD OPEN DEVICE
RIF	RELAY INDIVIDUALLY ADDRESSABLE MODULE FOR FIRE ALARM
OLR	OF LINE RESISTOR
ISD	FAULT ISOLATION MODULE
CM	CONTROL MODULE
MM	MONITOR MODULE

POWER PLAN SYMBOLS	
5-15R	DUPLEX 5-15R RECEPTACLE
5-20R	DUPLEX 5-20R RECEPTACLE, T-SLOT
5-15R	TWO DUPLEX 5-15R RECEPTACLES
JB	CEILING MOUNTED JUNCTION BOX AND EQUIPMENT CONNECTION
JB	WALL MOUNTED JUNCTION BOX AND EQUIPMENT CONNECTION
JB	FLOOR MOUNTED JUNCTION BOX AND EQUIPMENT CONNECTION
P	PANEL (TYPE AS INDICATED - SECURITY, LIGHTING CONTROL, ETC.)
W	WALL MOUNTED DIRECT EQUIPMENT CONNECTION
S	SPLITTER
SR	SURFACE RACEWAY (TYPE AS INDICATED)
W	WAVE TO OPEN PUSHBUTTON
M	MOTOR
M	MOTOR c/w DISCONNECT SWITCH
M	COMBINATION DISCONNECT AND MAGNETIC MOTOR STARTER
D	DISCONNECT SWITCH
D	FUSED DISCONNECT SWITCH
M	MAGNETIC MOTOR STARTER
T	THERMOSTAT
MP	MANUAL MOTOR STARTER c/w PILOT LIGHT
CS	CONDUIT STUB
CS	CONDUIT UP
CS	CONDUIT DOWN
MP	DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP
MP	DEVICE MOUNTED WITHIN MILLWORK COUNTERTOP

LIGHTING PLAN SYMBOLS	
RL	RECESSED LUMINAIRE, 1'x4'
RL	RECESSED LUMINAIRE, 2'x4'
RL	RECESSED LUMINAIRE, 2'x2'
RL	RECESSED LUMINAIRE / POT LIGHT, 6" DIAMETER OR LARGER
RL	RECESSED LUMINAIRE / POT LIGHT, LESS THAN 6" DIAMETER
RL	WALL MOUNTED LUMINAIRE
RL	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)
ES	CEILING MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
ES	WALL MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
LS	LINE VOLTAGE SWITCH (120V TO 347V), D - DIMMER SWITCH (0-10V)
LS	LOW VOLTAGE SWITCH, D - DIMMER SWITCH (0-10V)
OS	WALL MOUNTED COMBINATION OCCUPANCY SENSOR/LOW VOLTAGE SWITCH, D - DIMMER SWITCH (0 TO 10V)
OS	CEILING MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
OS	WALL MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
PC	PHOTOCELL (EXTERIOR, TYPE AS INDICATED)
PC	DAYLIGHT SENSOR (INTERIOR PHOTOCELL, TYPE AS INDICATED)
OS	WALL MOUNTED COMBINATION OCCUPANCY SENSOR/LINE VOLTAGE SWITCH
DAC	DALI DAC MODULE (0 - 10V) DALI DIGITAL TO ANALOG CONVERTER (DAC) (0-10V)
OS	PASSIVE INFRARED OCCUPANCY SENSOR (DALI)
OS	DUAL TECHNOLOGY OCCUPANCY SENSORS (LOW VOLTAGE)
OS	MULTI-SENSOR-PIR OCCUPANCY SENSOR AND DAYLIGHT SENSOR
PP	MOMENTARY PUSH BUTTON
PP	OCCUPANCY SENSOR POWER PACK
EM	EMERG. LTG. BATTERY PACK (# OF LAMPS AS SHOWN)
EM	EMERG. LTG. BATTERY PACK
EM	CEILING MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
EM	WALL MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
EM	COMBINATION EXIT SIGN/EMERG. LTG. BATTERY PACK



ELECTRICAL POWER, LIGHTING, OTHER EQUIPMENT DESIGN (ENERGY)	
BC BUILDING CODE:	2018
ELECTRICAL DESIGN:	
ENERGY STANDARD / CODE:	ASHRAE 90.1-2016
POWER COMPLIANCE PATH:	PRESCRIPTIVE
IN ACCORDANCE WITH:	SECTION 8.1.4 (ALTERNATIONS TO EXISTING BUILDINGS)
LIGHTING COMPLIANCE PATH:	PRESCRIPTIVE
LIGHTING DESIGN METHOD:	SPACE BY SPACE
IN ACCORDANCE WITH:	SECTION 9 (ALTERNATIONS TO EXISTING BUILDINGS)
OTHER EQUIPMENT PATH:	SECTION 10 (ALTERNATIONS TO EXISTING BUILDINGS)

Issued/Revision	By	Appd	YYYY.MM.DD
B	MG	TF	2024.04.10
A	BH	TF	2023.09.28

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Title
COVER PAGE

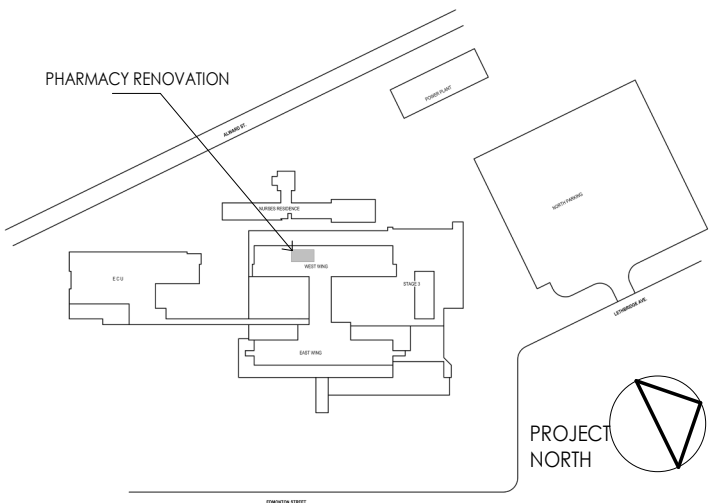
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Revision B	Drawing No. E001

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A	ISSUED FOR TENDER	BH	TF	2023.09.28
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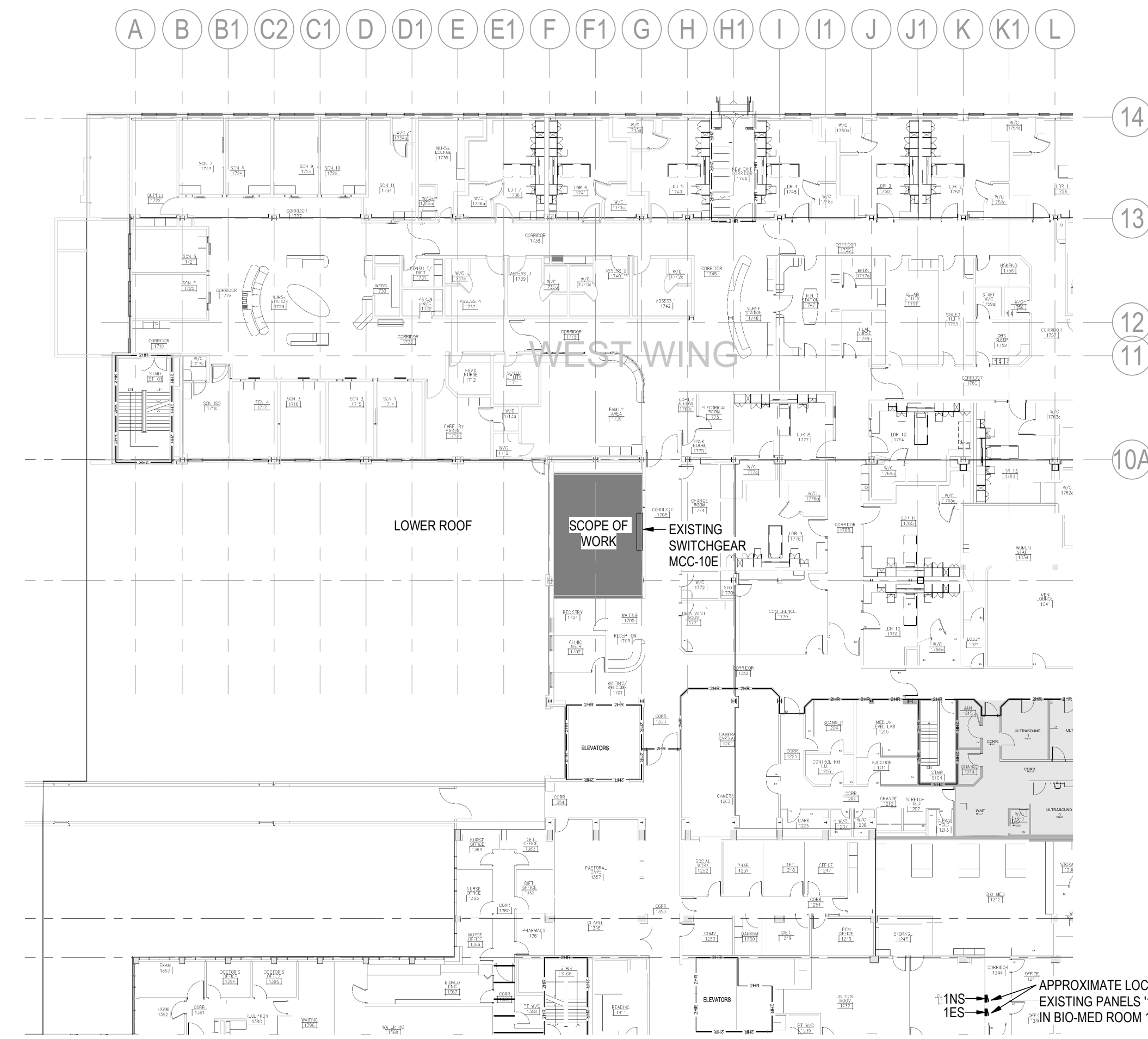
Title
SYSTEM OVERVIEW

Project No.
144320228

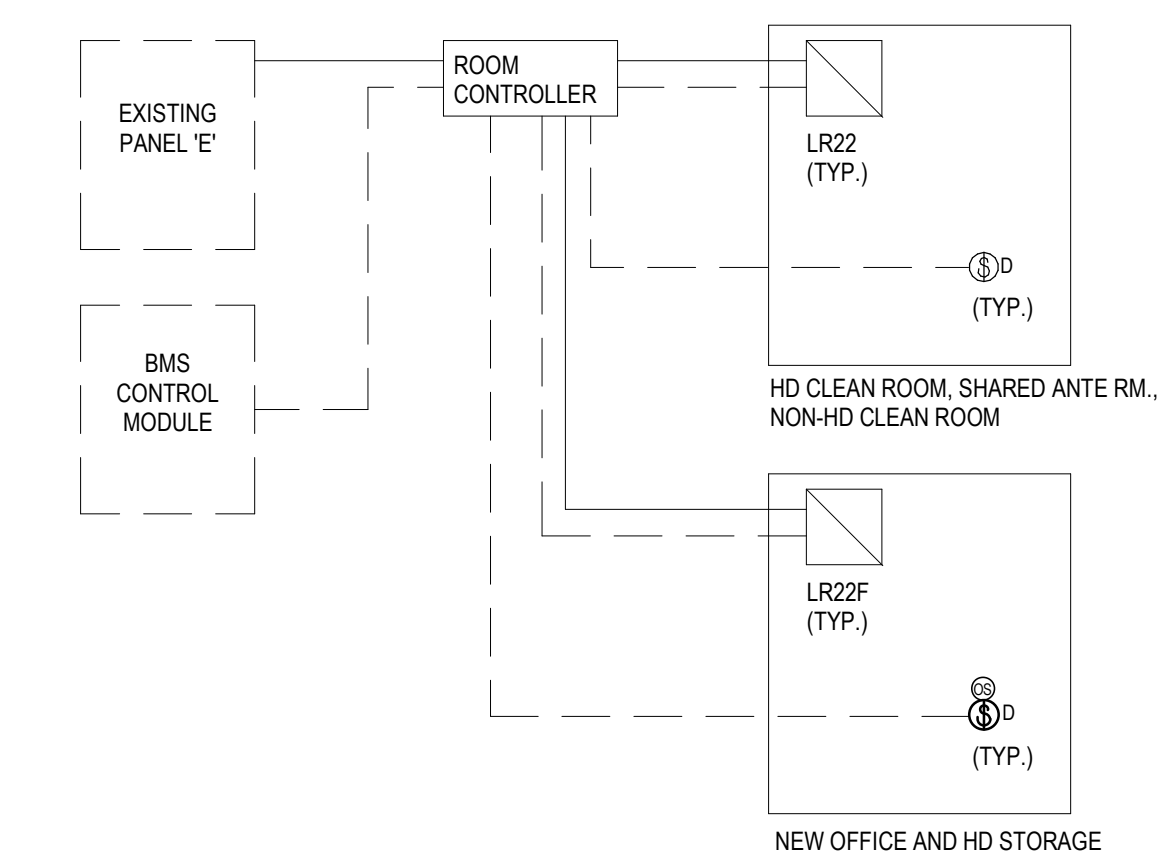
Scale
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Revision
B

Drawing No.
E010



5 LEVEL 1 KEY PLAN
E010 1:300

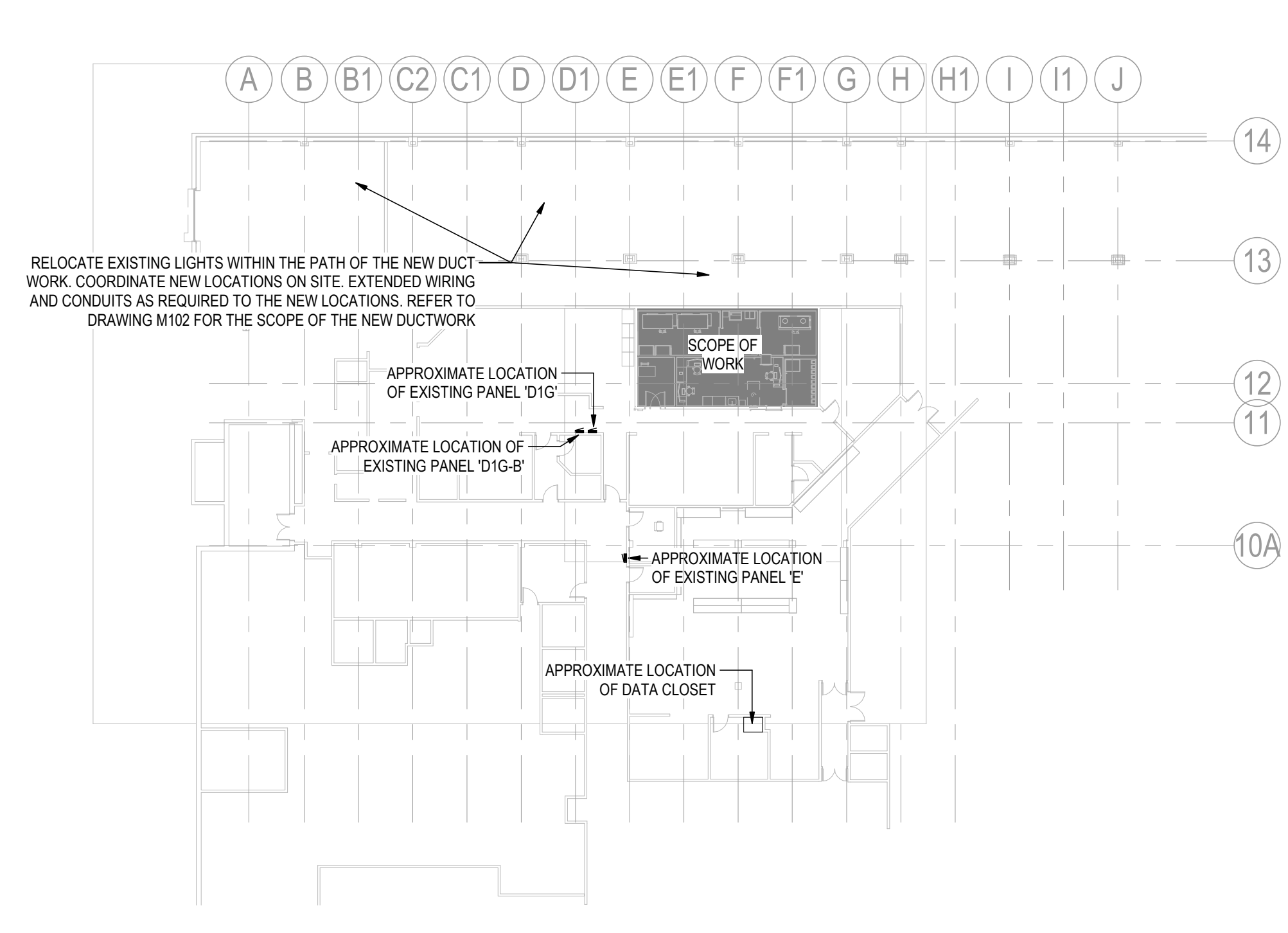


- NOTES:
- PROVIDE ROOM CONTROLLER AND LIGHTING CONTROL DEVICES TO MATCH EXISTING LIGHTING CONTROL SYSTEM (RELIABLE CONTROLS).
 - LIGHTING CONTROL BEHAVIOUR:
 - NEW OFFICE AND HD STORAGE: ALL LIGHTING FIXTURES TO BE MANUAL ON, DIMMABLE AND AUTO OFF UPON 15 MINS OF INACTIVITY.
 - HD CLEAN ROOM, SHARED ANTE RM AND NON-HD CLEAN ROOM: ALL LIGHTING FIXTURES TO BE MANUAL ON AND OFF AND DIMMABLE.
 - CONTRACTOR TO SETUP INTEGRATION TO EXISTING BMS (RC WEBVIEW)

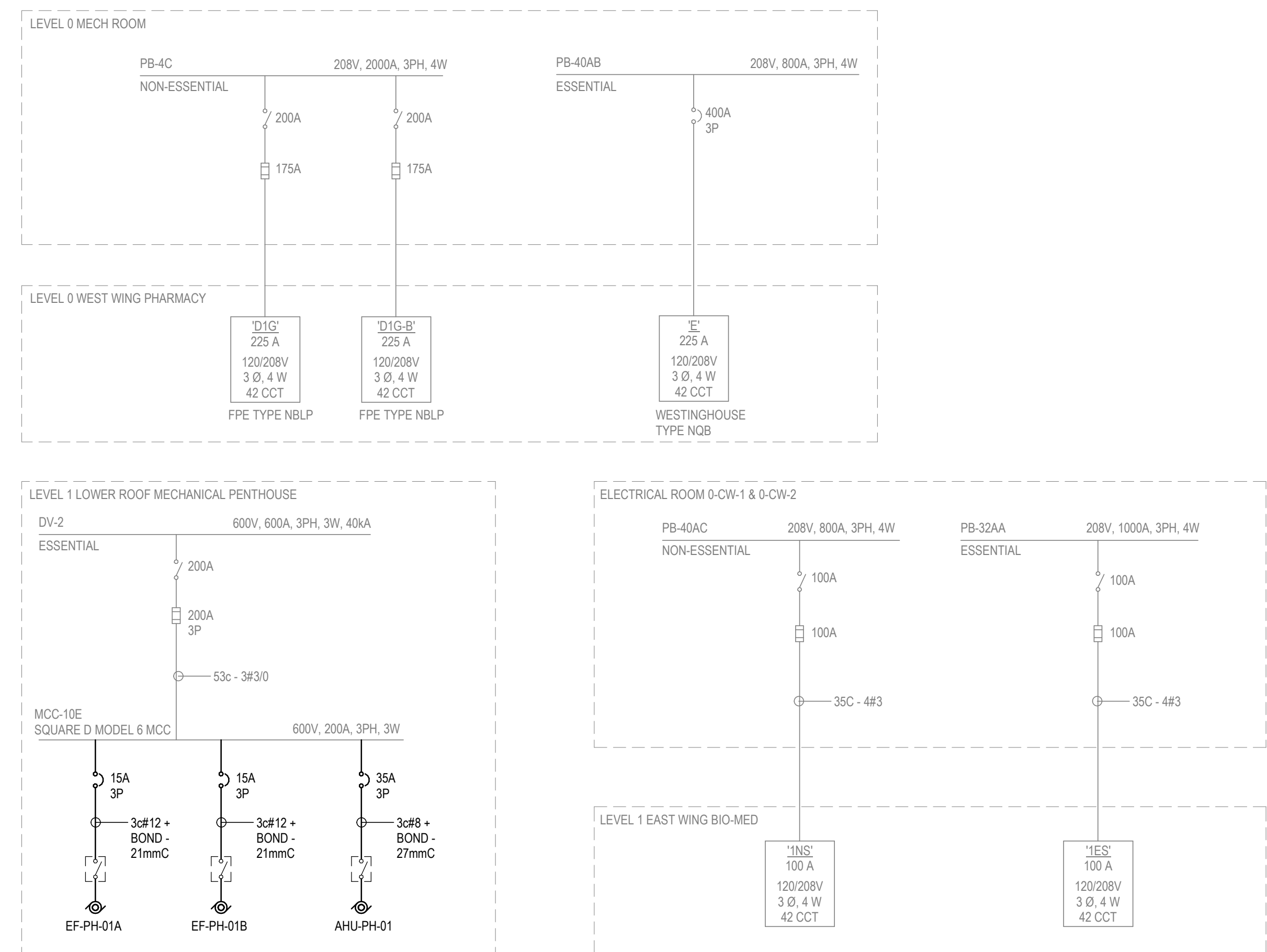


3 EXISTING SWITCHGEAR MCC-10E
E010 N.T.S

PROPOSED BREAKER SPACE FOR NEW AHU. ELECTRICAL CONTRACTOR TO PROVIDE CLAMP ON METERS TO MONITOR ELECTRICAL LOAD OF MCC-10E FOR DURATION OF AT LEAST TWO WEEKS. ENGINEER TO VERIFY THE METERING RESULT PRIOR TO INSTALLATION.



1 LEVEL 0 KEY PLAN
E010 1:300



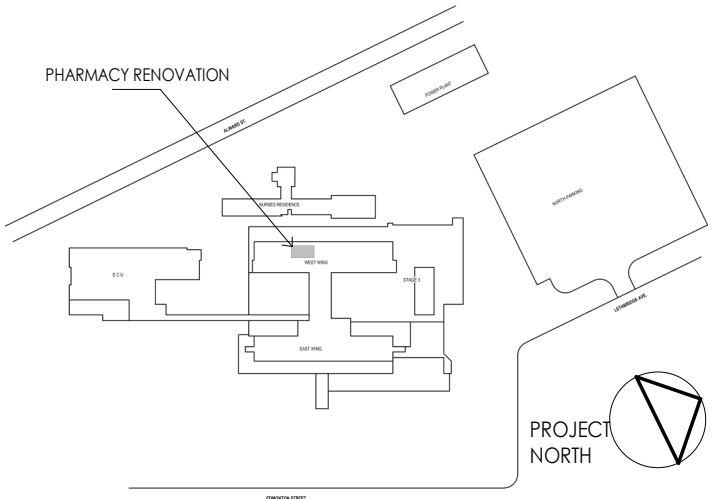
4 PARTIAL EXISTING SINGLE LINE DIAGRAM
E010 N.T.S

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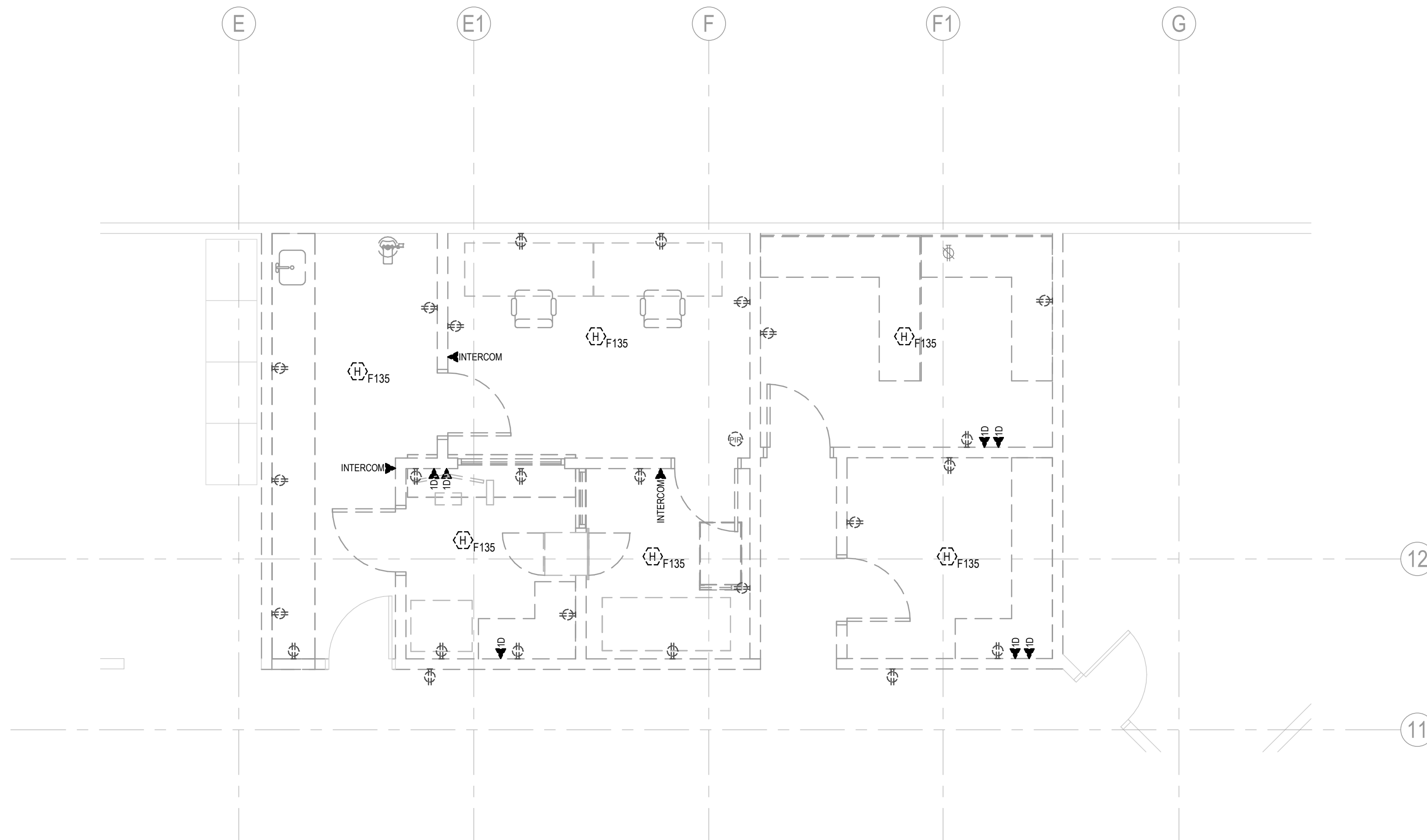
DEMOLITION NOTES

- A. THE INFORMATION ON EXISTING DEVICES AND EQUIPMENT PROVIDED ON THIS DRAWING IS A COMPILATION OF DATA FROM EXISTING DRAWINGS AND SITE INVESTIGATIONS. THE CONTRACTOR IS REQUIRED TO REVIEW THE EXISTING SITE CONDITIONS AND DETERMINE THE EXTENT OF DEMOLITION REQUIRED PRIOR TO SUBMITTING A PRICE. EXISTING DEVICES NOT SHOWN BUT REQUIRING REMOVAL WILL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER. DEVICES NOT NOTED THAT REQUIRE REMOVAL OR RELOCATION WILL BE ASSESSED ON SITE DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- B. GENERAL ELECTRICAL: UNLESS OTHERWISE NOTED AS 'EX' OR 'RL' ON THE PLANS, ALL EXISTING ELECTRICAL EQUIPMENT ON WALLS/CEILINGS TO BE DEMOLISHED.
- C. REMOVE ANY REDUNDANT RACEWAY/WIRING AND CORRECT ANY NON-COMPLIANT INSTALLATIONS. IN THE CASE OF UNSEEN SITE CONDITIONS REGARDING HIDDEN NON-COMPLIANT INSTALLATIONS FROM THE PAST, CONTRACTOR TO IMMEDIATELY BRING THE EXTENT OF WORK TO THE ATTENTION OF THE CONSTRUCTION MANAGER FOR REVIEW AND TO DETERMINE THE PROCEDURE FOR CORRECTING THE INSTALLATIONS.
- D. THE OWNER HAS THE RIGHT TO FIRST REFUSAL FOR ALL REMOVED EQUIPMENT (LIGHTS, PLUGS, ETC...). ALL REMOVED EQUIPMENT NOT CLAIMED BY THE OWNER IS TO BE DISPOSED OF BY THE CONTRACTOR.
- E. UPDATE PANEL SCHEDULE TO REFLECT ADDITIONAL CIRCUIT REQUIREMENTS. FIELD CHECK & CONFIRM AVAILABLE SPACE & SPARE CIRCUITS.

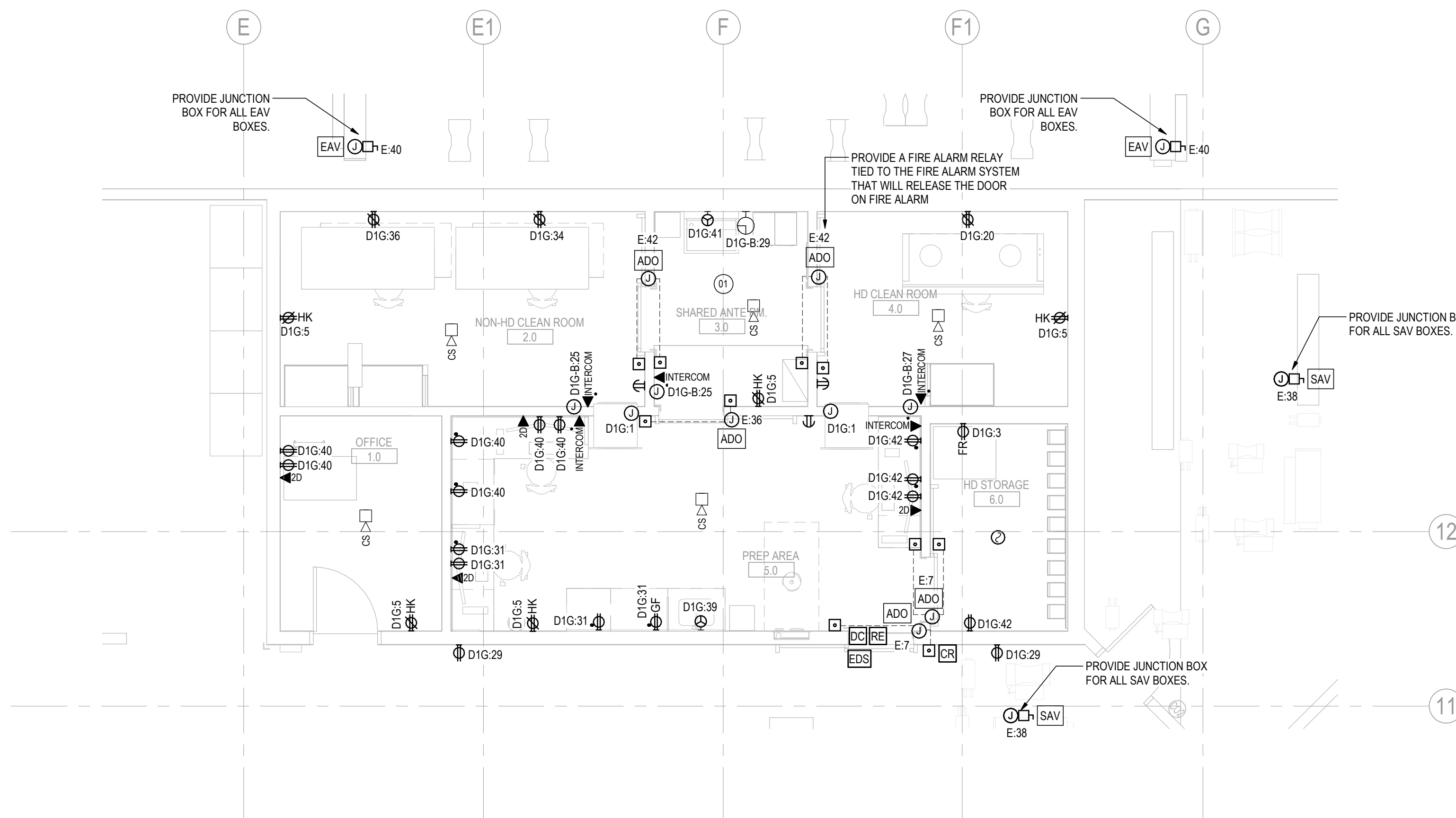
GENERAL NOTES

- A. COORDINATE ALL WORK WITH ARCHITECTURAL, INTERIOR DESIGN AND MECHANICAL DISCIPLINE DRAWINGS AND COORDINATE ALL WORK WITH ASSOCIATED TRADES. REFER TO INTERIOR DESIGN DRAWINGS FOR MOUNTING HEIGHTS OF ALL DEVICES, AND INSTALLATION REQUIREMENTS IN OR NEAR MILLWORK.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE-RATED WALL/FLOOR PENETRATIONS DETAILS. FIRESTOP ALL WALL AND FLOOR PENETRATIONS AS REQUIRED.
- C. ALL POWER CONDUCTORS SHALL BE SIZED AS REQUIRED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
- D. RETAIN A QUALIFIED PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA TO DESIGN AND REVIEW SEISMIC RESTRAINTS FOR ALL WORK ASSOCIATED WITH DIVISION 26 (LUMINAIRES, CONDUIT SUPPORTS, ETC.). THE STRUCTURAL ENGINEER SHALL DESIGN, REVIEW/SUPERVISE THE INSTALLATIONS AND SUBMIT THE LETTERS OF ASSURANCE (SCHEDULES 'S-B' AND 'S-C') TO THE ELECTRICAL ENGINEER.
- E. PROVIDE NEW BREAKERS IN EXISTING PANELS AS REQUIRED TO ACCOMMODATE NEW LOADS. REFER TO ELECTRICAL PANEL SCHEDULES AND SINGLE LINE DIAGRAM. CIRCUITS SHOWN INDICATE THE REQUIRED CIRCUITING ARRANGEMENT. DO NOT DEVIATE FROM THE CIRCUITING GROUPING AS SHOWN. SHOW ALL CIRCUIT NUMBERS USED ON RECORD DRAWINGS. CONNECT A MAXIMUM OF THREE (3) WORK STATION OUTLETS PER 15A CIRCUIT AND SIX (6) CONVENIENCE OUTLETS PER 15A CIRCUIT. PROVIDE TYPE-WRITTEN PANEL SCHEDULES UPON PROJECT COMPLETION.
- F. PERFORM FIRE ALARM RE-VERIFICATION AT END OF PROJECT COMPLETE WITH AUDIBILITY LEVELS OF EACH DEVICE AND AMBIENT AUDIBILITY IN CORRESPONDENCE WITH THE ULC S537 STANDARD.
- G. PROVIDE PROPER SEALING INSTALLATION ON ELECTRICAL WIRING DEVICES IN HAZARDOUS AREA.
- H. ALL NEW RECEPTACLES TO BE HUBBELL HOSPITAL GRADE SNAP TYPE RECEPTACLES (ILLUMINATED).

KEYNOTE LEGEND	
Key Value	Keynote Text
01	PROVIDE ADD CAM MOUNTED UNIT SWITCH (BY ADD VENDOR) AT EACH DOOR IN SHARED ANTEROOM TO BE USED AS INTERLOCK SIGNAL TO RESTRICT OTHER DOORS TO OPEN UNLESS DOOR IS FULLY CLOSED.



1 PHARMACY POWER AND SYSTEMS DEMO PLAN
E100 1:50



2 PHARMACY POWER AND SYSTEMS NEW PLAN
E100 1:50

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B. ISSUED FOR CONSTRUCTION	MG	TF	2024.04.10
A. ISSUED FOR TENDER	BH	TF	2023.09.28

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Title
**POWER AND SYSTEMS FLOOR PLAN -
PHARMACY**

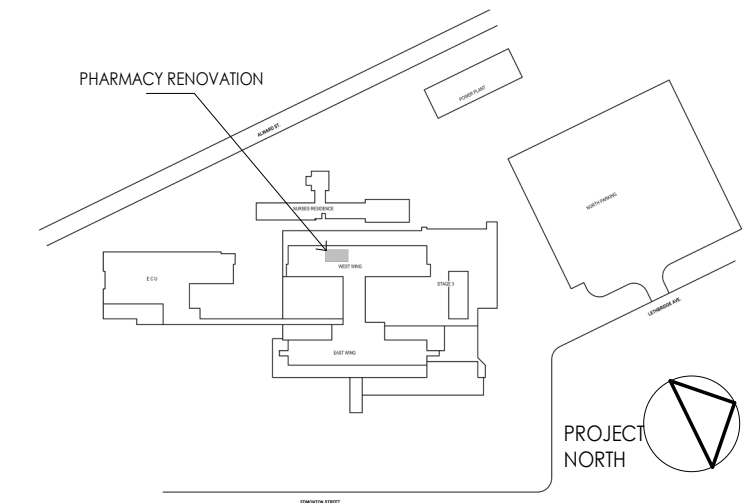
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Revision B	Drawing No. E100

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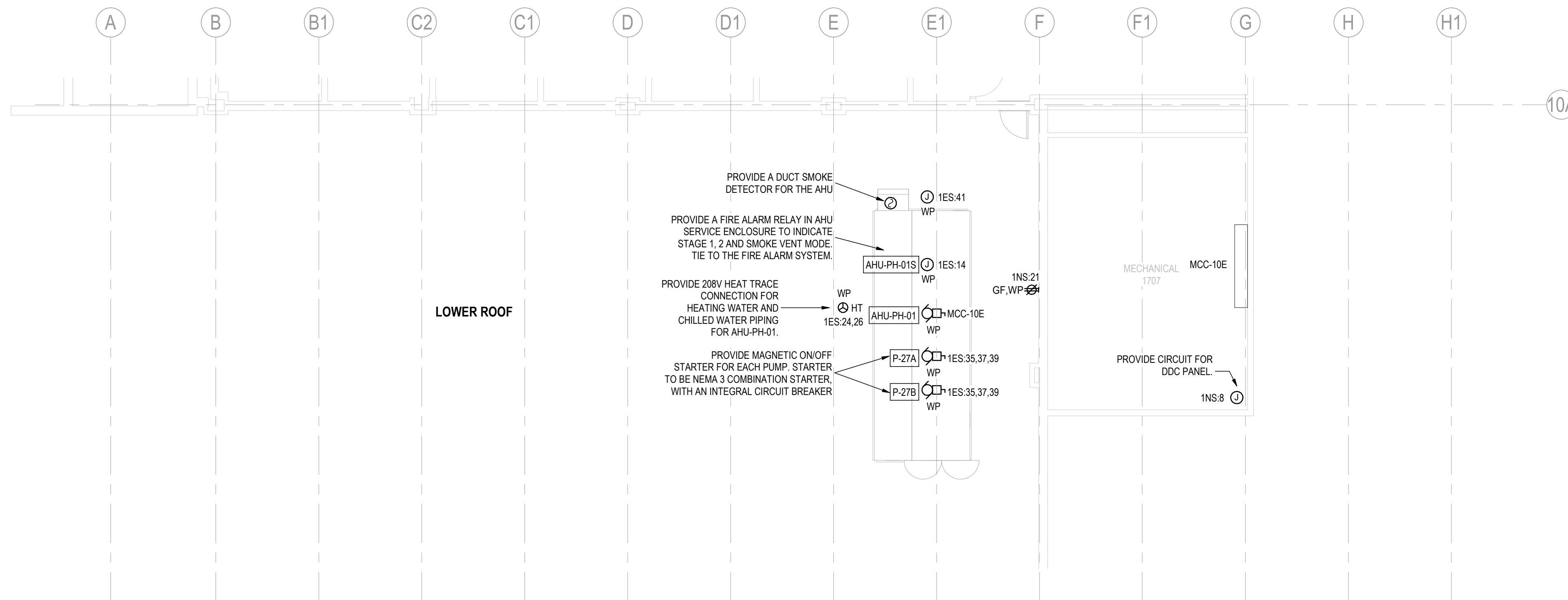
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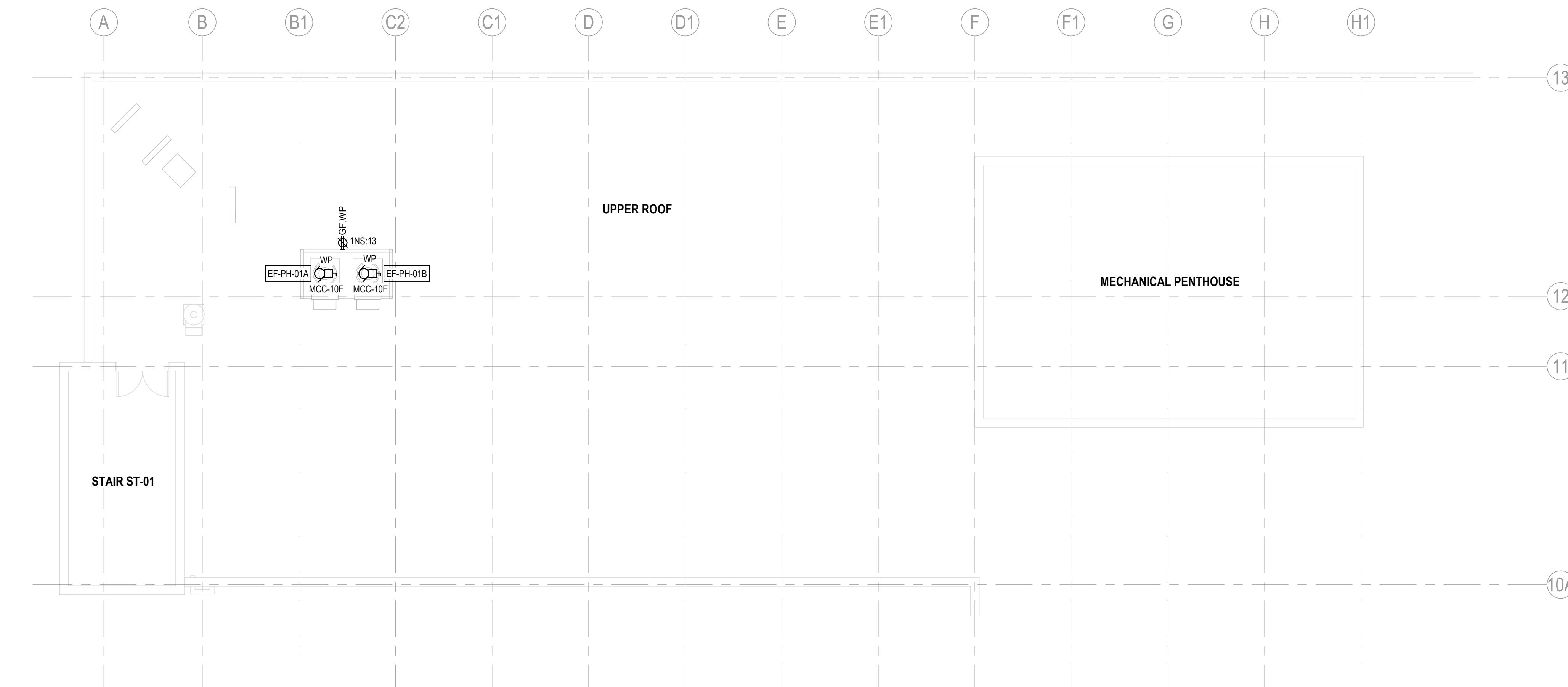


GENERAL NOTES

- A. COORDINATE ALL WORK WITH ARCHITECTURAL, INTERIOR DESIGN AND MECHANICAL DISCIPLINE DRAWINGS AND COORDINATE ALL WORK WITH ASSOCIATED TRADES. REFER TO INTERIOR DESIGN DRAWINGS FOR MOUNTING HEIGHTS OF ALL DEVICES, AND INSTALLATION REQUIREMENTS IN OR NEAR MILLWORK.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE-RATED WALL/FLOOR PENETRATIONS DETAILS. FIRESTOP ALL WALL AND FLOOR PENETRATIONS AS REQUIRED.
- C. ALL POWER CONDUCTORS SHALL BE SIZED AS REQUIRED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
- D. RETAIN A QUALIFIED PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA TO DESIGN AND REVIEW SEISMIC RESTRAINTS FOR ALL WORK ASSOCIATED WITH DIVISION 26 (LUMINAIRES, CONDUIT SUPPORTS, ETC.). THE STRUCTURAL ENGINEER SHALL DESIGN, REVIEW/SUPERVISE THE INSTALLATIONS AND SUBMIT THE LETTERS OF ASSURANCE (SCHEDULES 'S-B' AND 'S-C') TO THE ELECTRICAL ENGINEER.



1 LEVEL 1 - LOWER ROOF POWER PLAN
E101 1:100



2 LEVEL 3 - UPPER ROOF POWER PLAN
E101 1:100

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Title
**POWER & SYSTEMS FLOOR PLAN -
ROOF PLANS**

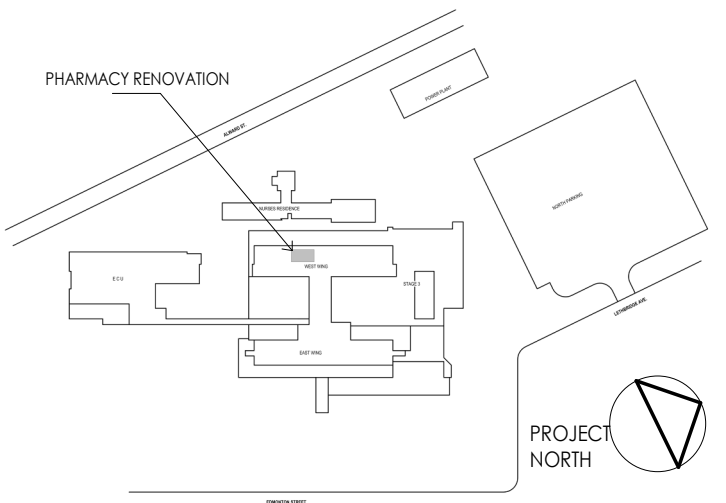
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144320228	As indicated
Revision	Drawing No.
B	E101

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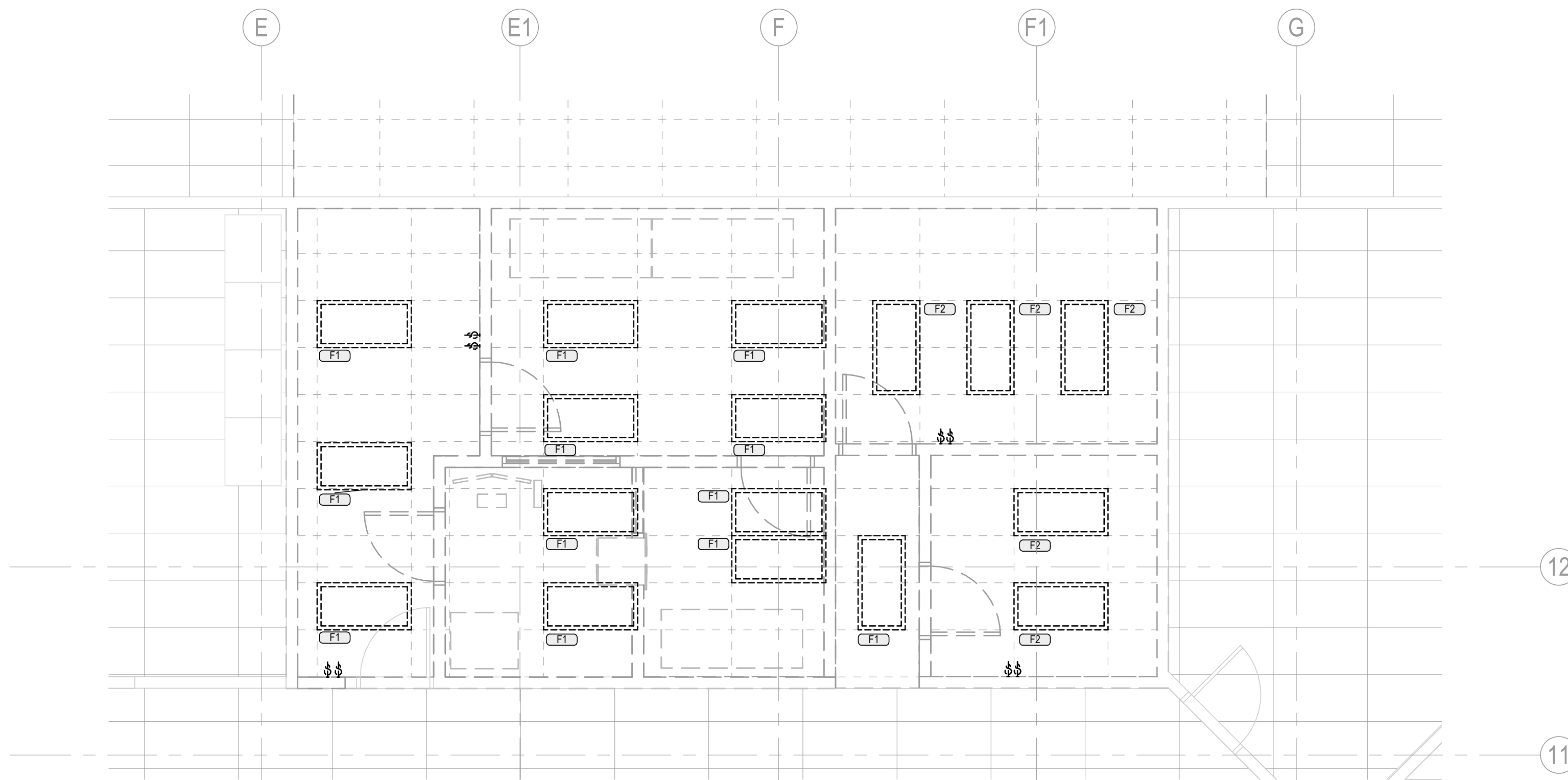


DEMOLITION NOTES

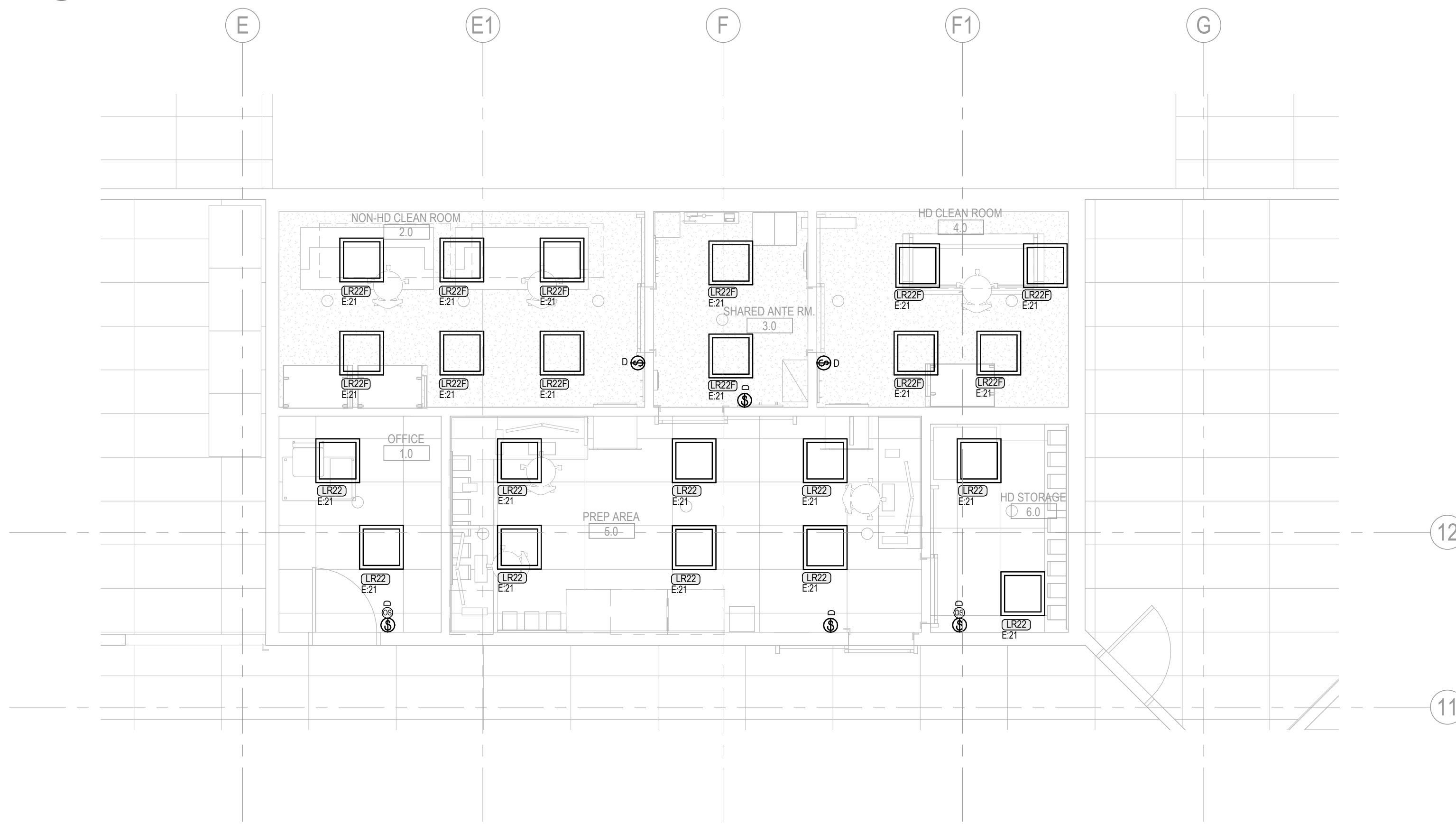
- A. THE INFORMATION ON EXISTING DEVICES AND EQUIPMENT PROVIDED ON THIS DRAWING IS A COMPILATION OF DATA FROM EXISTING DRAWINGS AND SITE INVESTIGATIONS. THE CONTRACTOR IS REQUIRED TO REVIEW THE EXISTING SITE CONDITIONS AND DETERMINE THE EXTENT OF DEMOLITION REQUIRED PRIOR TO SUBMITTING A PRICE. EXISTING DEVICES NOT SHOWN BUT REQUIRING REMOVAL WILL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER. DEVICES NOT NOTED THAT REQUIRE REMOVAL OR RELOCATION WILL BE ASSESSED ON SITE DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- B. GENERAL ELECTRICAL, UNLESS OTHERWISE NOTED AS 'EX' OR 'RL' ON THE PLANS, ALL EXISTING ELECTRICAL EQUIPMENT ON WALLS/Ceilings TO BE DEMOLISHED.
- C. REMOVE ANY REDUNDANT RACEWAY/WIRING AND CORRECT ANY NON-COMPLIANT INSTALLATIONS. IN THE CASE OF UNSEEN SITE CONDITIONS REGARDING HIDDEN NON-COMPLIANT INSTALLATIONS FROM THE PAST, CONTRACTOR TO IMMEDIATELY BRING THE EXTENT OF WORK TO THE ATTENTION OF THE CONSTRUCTION MANAGER FOR REVIEW AND TO DETERMINE THE PROCEDURE FOR CORRECTING THE INSTALLATIONS.
- D. THE OWNER HAS THE RIGHT TO FIRST REFUSAL FOR ALL REMOVED EQUIPMENT (LIGHTS, PLUGS, ETC.). ALL REMOVED EQUIPMENT NOT CLAIMED BY THE OWNER IS TO BE DISPOSED OF BY THE CONTRACTOR.
- E. UPDATE PANEL SCHEDULE TO REFLECT ADDITIONAL CIRCUIT REQUIREMENTS. FIELD CHECK & CONFIRM AVAILABLE SPACE & SPARE CIRCUITS.
- F. LIGHTING DEMO PHASING PLAN. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PHASING PLAN FOR WALLS AND CEILINGS. COORDINATE WITH CONTRACTORS FROM OTHER DISCIPLINE TO MAKE A COMPLETE AND OPERABLE SYSTEM DURING TEMP. PHASES.
 - a. PHASE I: REMOVE ALL EXISTING LIGHTING FIXTURES, EXIT SIGNS AND LIGHTING SWITCHES AS INDICATED IN THE DRAWINGS.
 - b. PHASE II: PROVIDE LIGHTING FIXTURES AND SWITCHES AS INDICATED IN THE DRAWINGS.
 - c. PHASE III: REMOVE THE GASKET FIXTURES 1" IN TEMP MIXING ROOM AND ANTE ROOM CAREFULLY AND REUSE THEM IN THE NEW PHARMACY. PROVIDE FIXTURE TYPE 'F2' IN THE OFFICE AFTER THE TEMP. WALLS ARE REMOVED.

GENERAL NOTES

1. COORDINATE ALL WORK WITH THE TRADES (MECHANICAL, FIRE PROTECTION, ARCHITECTURAL, INTERIOR DESIGN, ETC.) ON SITE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE-RATED WALL/FLOOR PENETRATIONS DETAILS. FIRESTOP ANY PENETRATIONS MADE THROUGH FIRE SEPARATIONS.
3. ALL LIGHTING CONDUCTORS SHALL BE SIZED AS REQUIRED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
4. RETAIN A QUALIFIED PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA TO DESIGN AND REVIEW SEISMIC RESTRAINTS FOR ALL WORK ASSOCIATED WITH DIVISION 26 (LUMINAIRES, CONDUIT SUPPORTS, ETC.). THE STRUCTURAL ENGINEER SHALL DESIGN, REVIEW/SUPERVISE THE INSTALLATIONS AND SUBMIT THE LETTERS OF ASSURANCE (SCHEDULES 'S-B' AND 'S-C') TO THE ELECTRICAL ENGINEER.
5. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM ABOVE FINISHED FLOOR TO THE BOTTOM OF THE LUMINAIRE.
6. ALL EXISTING DEVICES ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AS REQUIRED. WHERE FIRE ALARM SPEAKERS OR EXIT SIGNS WILL BE OBTURED BY THE NEW CIRCULAR CEILING PANELS, OR NEW WALLS, DOORS, PARTITIONS, OR ANY OTHER NEW STRUCTURES, THESE FIRE ALARM SPEAKERS AND EXIT SIGNS SHALL BE RELOCATED TO A LOCATION AS NEAR TO THE ORIGINAL LOCATION AS POSSIBLE BUT WITHOUT BEING OBTURED BY THE NEW STRUCTURE.
7. LIGHTING CONTROL DEVICES ARE SHOWN DIAGRAMMATICALLY TO SHOW DESIGN INTENT. ZONES DENOTING NUMBER OF RELAYS REQUIRED ON LIGHTING CONTROL DEVICES ARE SHOWN VIA LETTERS ADJACENT TO DEVICE ON PLAN. LETTERS NEXT TO LUMINAIRES DENOTE THEY ARE CONTROLLED BY THE DEVICE. WHERE DIMMERS ARE SHOWN TO PROVIDE CONTROL TO MORE THAN ONE ZONE, EACH ZONE SHALL HAVE ITS OWN DIMMER. WHEN OCCUPANCY/DAYLIGHT SENSOR IS SHOWN CONTRACTOR SHALL COORDINATE ON SITE AND WITH MANUFACTURERS RECOMMENDATIONS FOR PLACEMENT OF THE SENSOR TO ACHIEVE DESIGN INTENT. IF REQUIRED, LARGE ROOM OR ROOMS WITH ABNORMAL LAYOUTS SHALL HAVE MORE THAN ONE OCCUPANCY SENSOR.



1 PHARMACY LIGHTING DEMO PLAN
E200 1:50



2 PHARMACY LIGHTING NEW PLAN
E200 1:50

Rev	Issued/Revision	By	Appd	Date
B	ISSUED FOR CONSTRUCTION	MG	TF	2024.04.10
A	ISSUED FOR REVIEW	BH	TF	2023.09.28

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Title
LIGHTING PLAN - PHARMACY

Project No. 144320228	Scale As indicated
Revision B	Drawing No. E200



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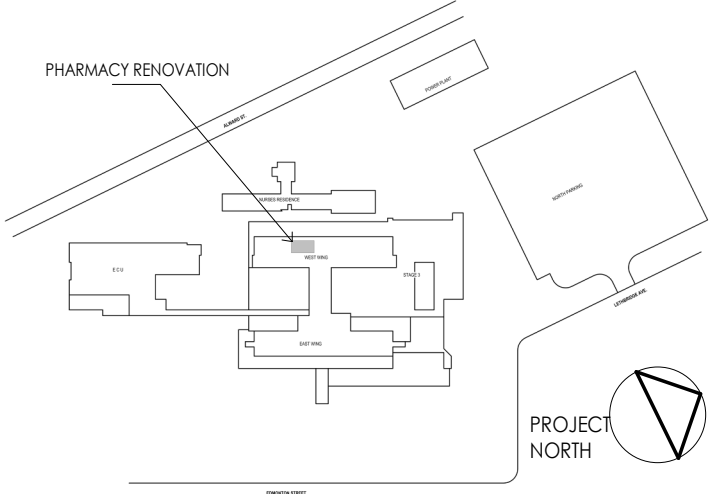


Table with 4 columns: Issued/Revision, By, Appd, Date. Row 1: B - ISSUED FOR CONSTRUCTION, MG, IF, 2024.04.10.

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PANEL SCHEDULES

Project No. 144320228

Revision B Drawing No. E300

Panel schedule table for Name: D1G-B, 208Y/120V, 3 Phases, 4 Wires. Includes circuit descriptions, load classification, and total demand.

Panel schedule table for Name: D1G, 208Y/120V, 3 Phases, 4 Wires. Includes circuit descriptions, load classification, and total demand.

Panel schedule table for Name: 1NS, 208Y/120V, 3 Phases, 4 Wires. Includes circuit descriptions, load classification, and total demand.

Panel schedule table for Name: 1ES, 208Y/120V, 3 Phases, 4 Wires. Includes circuit descriptions, load classification, and total demand.

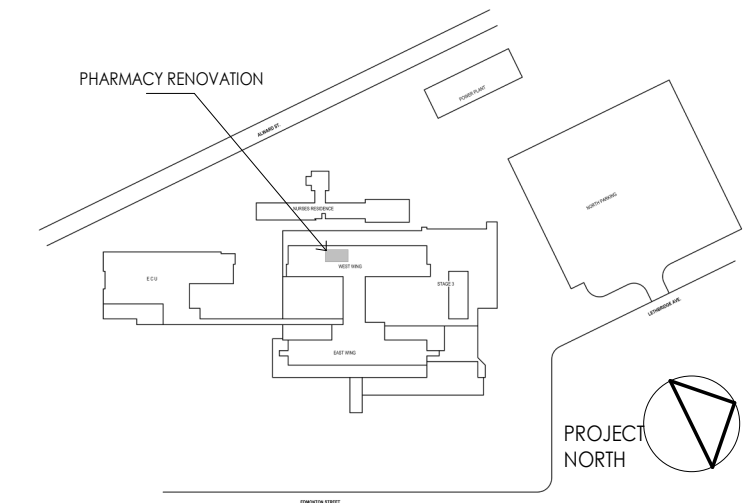
Panel schedule table for Name: E, 208Y/120V, 3 Phases, 4 Wires. Includes circuit descriptions, load classification, and total demand.

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Notes



LUMINAIRE SCHEDULE													
Type Mark	Image	Size	Description	Mounting	LED					Voltage	Manufacturer	Cat#	Remarks
					Wattage	Lumen Output	Efficacy	CRI	Color Temperature				
F1		2'X4'	EXISTING LIGHTING FIXTURE	RECESSED						120 V			
F2		2'X4'	EXISTING LIGHTING FIXTURE	RECESSED						120 V			
LR22		2'X2'	2'X2' LED RECESSED LIGHT SEALED	RECESSED - T-BAR	31 W	4100	116	90	3500	120 V	DAY-BRITE	2SBP2440L8CSP-2-UN3-DIM	
LR22F		2'X2'	2'X2' LED RECESSED LIGHT - CLEAN ROOM RATED	RECESSED - DRYWALL	31 W	4100	116	90	3500	120 V	DAY-BRITE	2SBP2440L8CSP-2-UN3-DIM-FMA22	

MECHANICAL EQUIPMENT SCHEDULE																																	
EQUIPMENT ID	UNIT DESCRIPTION	LOCATION	VOLTAGE (V)	Φ	HZ	HP	FLA	LOAD	MCA	MOP	STARTER				CONTROLS			DISCONNECT			ACCESSORIES	INTERFACE REQ'D	AUTO ON	AUTO OFF	REMO E HOA	DUCT SMOKE DET.	PWR SOURCE TYPE	PANEL	BREAKER	CONDUCTOR SIZE	CONDUIT SIZE	NOTES	
											GROUPING	TYPE	SUPPLIED	INSTALLED	WIRE	SIZE	(TYPE)	SUPPLIED	INSTALLED	WIRE													SUPPLIED
AHU-PH-01	PHARMACY AIR HANDLING UNIT	LEVEL 1 LOWER ROOF	600 V	3	60 Hz	0	0.0 A	11200 W	21 A	25 A		VFD	M	M	E	BAS	M	M	M	E	E		No	No	No	No	Yes	VITAL	MCC-10E	25A/3P	3c#10 + BOND	21mm	
AHU-PH-01S	AHU-PH-01 LIGHT PLUGS CIRCUIT	LEVEL 1 LOWER ROOF	120 V	1	60 Hz	0	0.0 A	1400 W	0 A	0 A						BAS	M	M	M	E	E		No	No	No	No	No	VITAL	1ES	15A/1P	2c#12 + BOND	21mm	
EAV BOX	EXHAUST AIR VALVE BOX CONNECTION	LEVEL 0 PHARMACY	120 V	1	60 Hz	0	1.0 A	120 W	0 A	0 A						BAS	M	M	M	E	E		No	No	No	No	No	VITAL	E	15A/1P	2c#12 + BOND	21mm	
EAV BOX	EXHAUST AIR VALVE BOX CONNECTION	LEVEL 0 PHARMACY	120 V	1	60 Hz	0	1.0 A	120 W	0 A	0 A						BAS	M	M	M	E	E		No	No	No	No	No	VITAL	E	15A/1P	2c#12 + BOND	21mm	
EF-PH-01A	HIGH PLUME EXHAUST FAN	LEVEL 3 UPPER ROOF	600 V	3	60 Hz	5	6.1 A	4052 W	15 A	15 A	PCS1	VSD	M	M	E	BAS	M	M	M	E	E		No	No	No	No	No	VITAL	MCC-10E	15A/3P	3c#12+ BOND	21mm	
EF-PH-01B	HIGH PLUME EXHAUST FAN	LEVEL 3 UPPER ROOF	600 V	3	60 Hz	5	6.1 A	4052 W	15 A	15 A	PCS1	VSD	M	M	E	BAS	M	M	M	E	E		No	No	No	No	No	VITAL	MCC-10E	15A/3P	3c#12 + BOND	21mm	
P-27A	AIR HANDLING UNIT PUMPS	LEVEL 1 LOWER ROOF	208 V	3	60 Hz	0	0.0 A	800 W	6 A	20 A		MAG	E	M	E	BAS	M	M	M	E	E		No	No	No	No	No	VITAL	1ES	20A/3P	3c#10 + BOND	21mm	
P-27B	AIR HANDLING UNIT PUMPS	LEVEL 1 LOWER ROOF	208 V	3	60 Hz	0	0.0 A	8000 W	6 A	20 A		MAG	E	M	E	BAS	M	M	M	E	E		No	No	No	No	No	VITAL	1ES	20A/3P	3c#10 + BOND	21mm	
SAV BOX	SUPPLY AIR VALVE BOX CONNECTIONS	LEVEL 0 PHARMACY	120 V	1	60 Hz	0	1.0 A	120 W	0 A	15 A						BAS	M	M	M	E	E		No	No	No	No	No	VITAL	E	15A/1P	2c#12 + BOND	21mm	
SAV BOX	SUPPLY AIR VALVE BOX CONNECTIONS	LEVEL 0 PHARMACY	120 V	1	60 Hz	0	1.0 A	120 W	0 A	15 A						BAS	M	M	M	E	E		No	No	No	No	No	VITAL	E	15A/1P	2c#12 + BOND	21mm	

ABBREVIATIONS:

GENERAL:

M MECHANICAL (DIVISIONS 21/22/23/25)
E ELECTRICAL (DIVISION 26)
FLA FULL LOAD AMPACITY
NCA MINIMUM CIRCUIT AMPACITY
MOP MAXIMUM OVERCURRENT PROTECTION DEVICE
BAS BUILDING AUTOMATION SYSTEM
CACF CENTRAL ALARM & CONTROL FACILITY (FIRE ALARM)
CDP CENTRAL DISTRIBUTION PANEL
FVNR FULL VOLTAGE, NON REVERSING
OIC OVERCURRENT
OIL OVERLOAD

CONTROLS:

BAS BUILDING AUTOMATION SYSTEM (DDC)
CP SYSTEM CONTROL PANEL (EG IRRIGATION CONTROLLER)
ES END SWITCH
FA FIRE ALARM (CONTROL MODULE)
FAFS FIRE ALARM (WET SPRINKLER) FLOW SWITCH
FALS FIRE ALARM (SPRINKLER RESERVOIR) LEVEL SWITCH
FAPS FIRE ALARM (DRY SPRINKLER) PRESSURE SYSTEM
FATS FIRE ALARM (SPRINKLER VALVE) TAMPER SWITCH
GS GAS SENSOR
H HUMIDISTAT
I INTERLOCK
LS LEVEL SWITCH
TC TIME CLOCK
T THERMOSTAT
VS VARIABLE SPEED SWITCH
WS WALL SWITCH

STARTER TYPE:

MAN MANUAL (w/ OIL)
MRR MOTOR RATED RELAY (N/C/N/O)
MAG MAGNETIC (FVNR)
MAG2 MAGNETIC (TWO SPEED)
FVR MAGNETIC, FULL VOLTAGE REVERSING
RVVD REDUCED VOLTAGE (WYE-DELTA)
RVAT REDUCED VOLTAGE (AUTOTRANSFORMER)
RVPW REDUCED VOLTAGE (PART WINDING)
RVSS REDUCED VOLTAGE (SOFT STARTER)
VSD VARIABLE SPEED DRIVE
VFD VARIABLE FREQUENCY DRIVE

STARTER GROUPING:

PCS1 PACKAGED CONTROL SYSTEM (INTEGRAL TO LOAD(S))
PCS2 PACKAGED CONTROL SYSTEM (SEPARATE FROM LOADS)
MCC MOTOR CONTROL CENTRE
MDC MOTOR DISTRIBUTION CENTRE
(FOUR-PLEX' OR SIMILAR SMALL GROUPED MOTOR CONTROL)
LOOSE INDIVIDUALLY-MOUNTED MOTOR STARTER/RELAY/VSD

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LUMINAIRE AND MECHANICAL
SCHEDULES

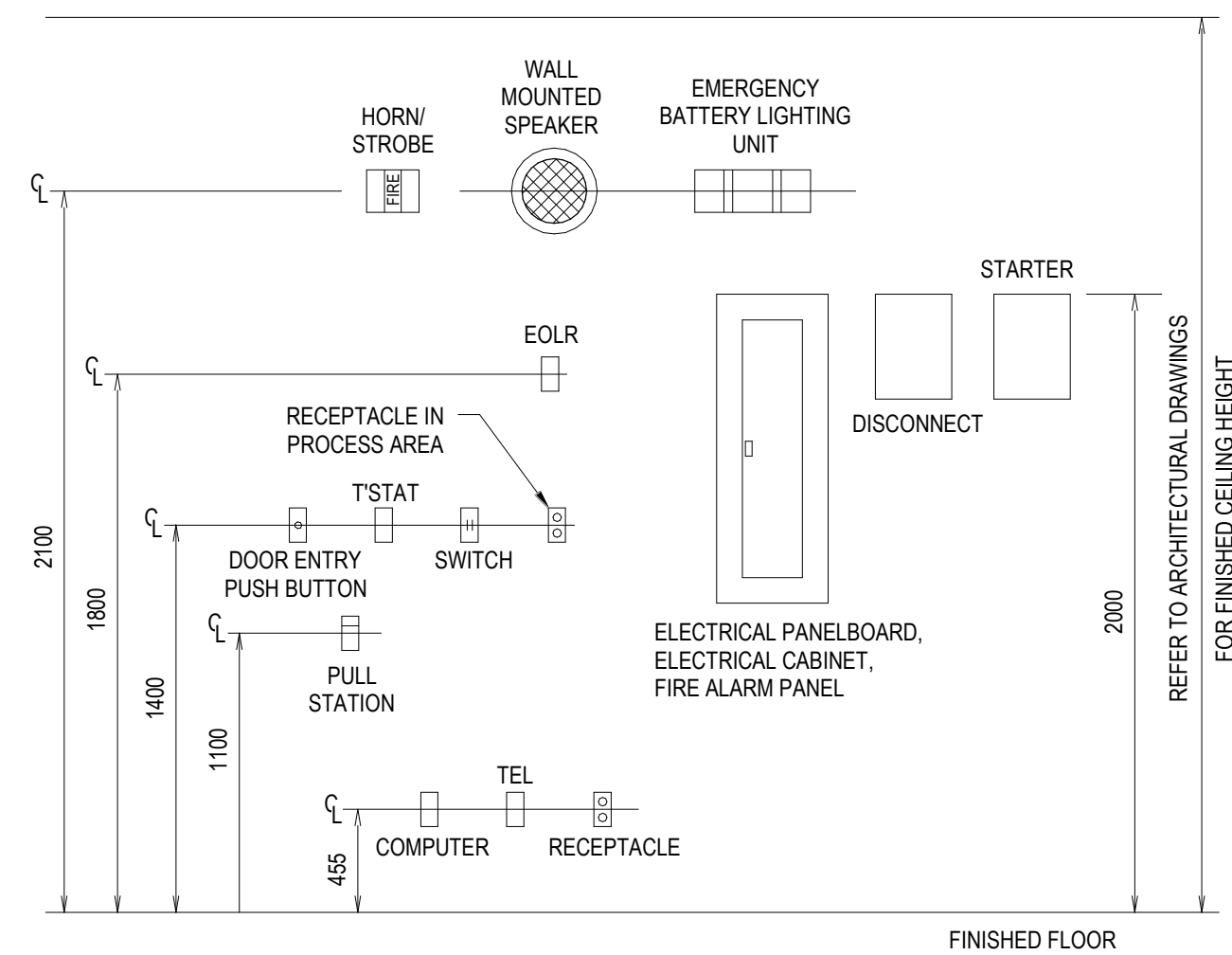
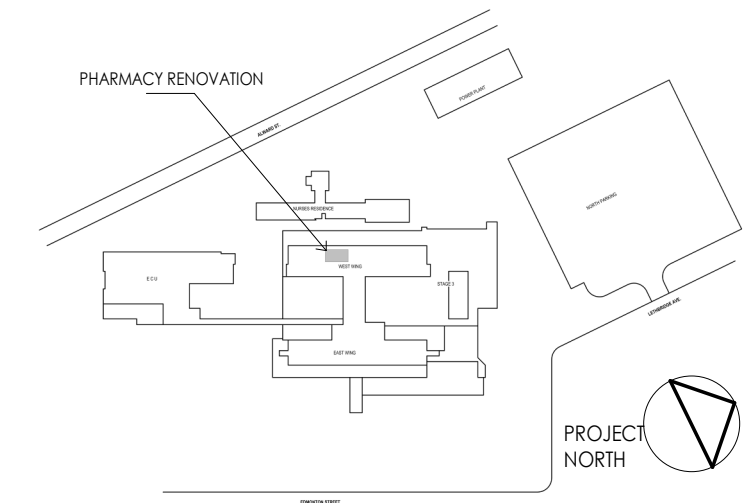
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Revision B	Drawing No. E301

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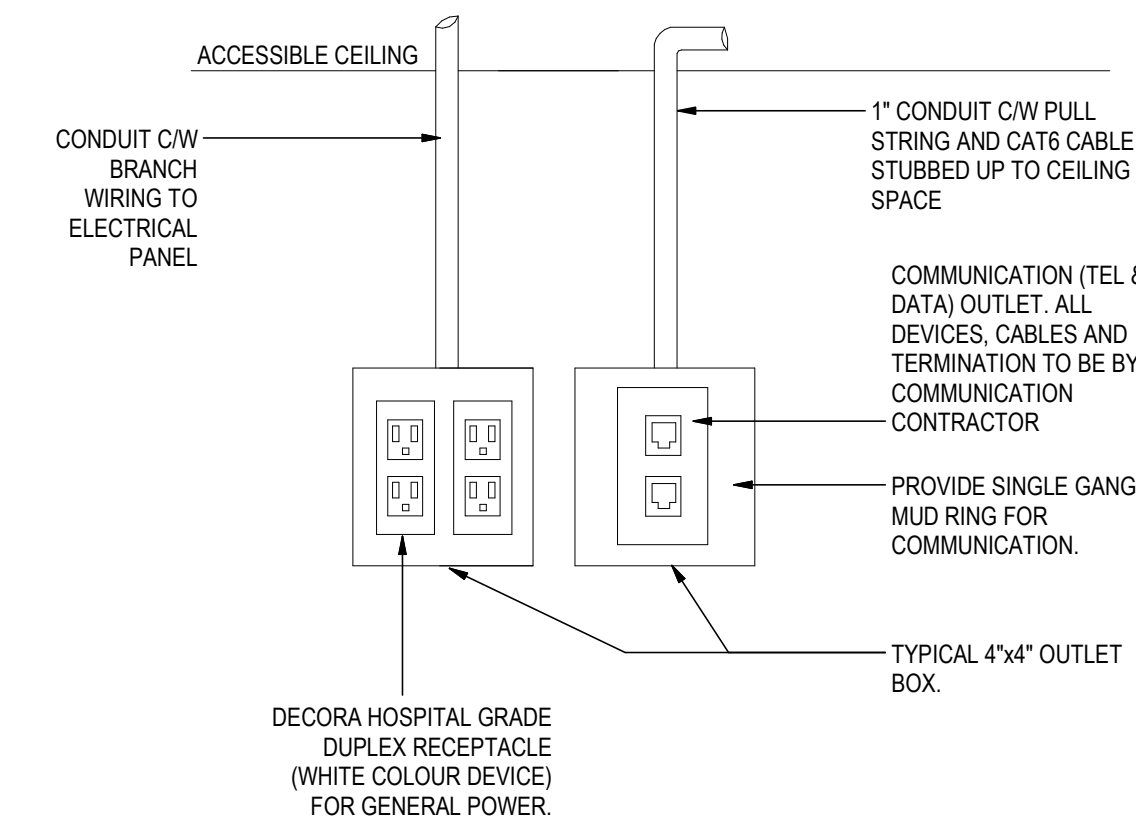
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Notes



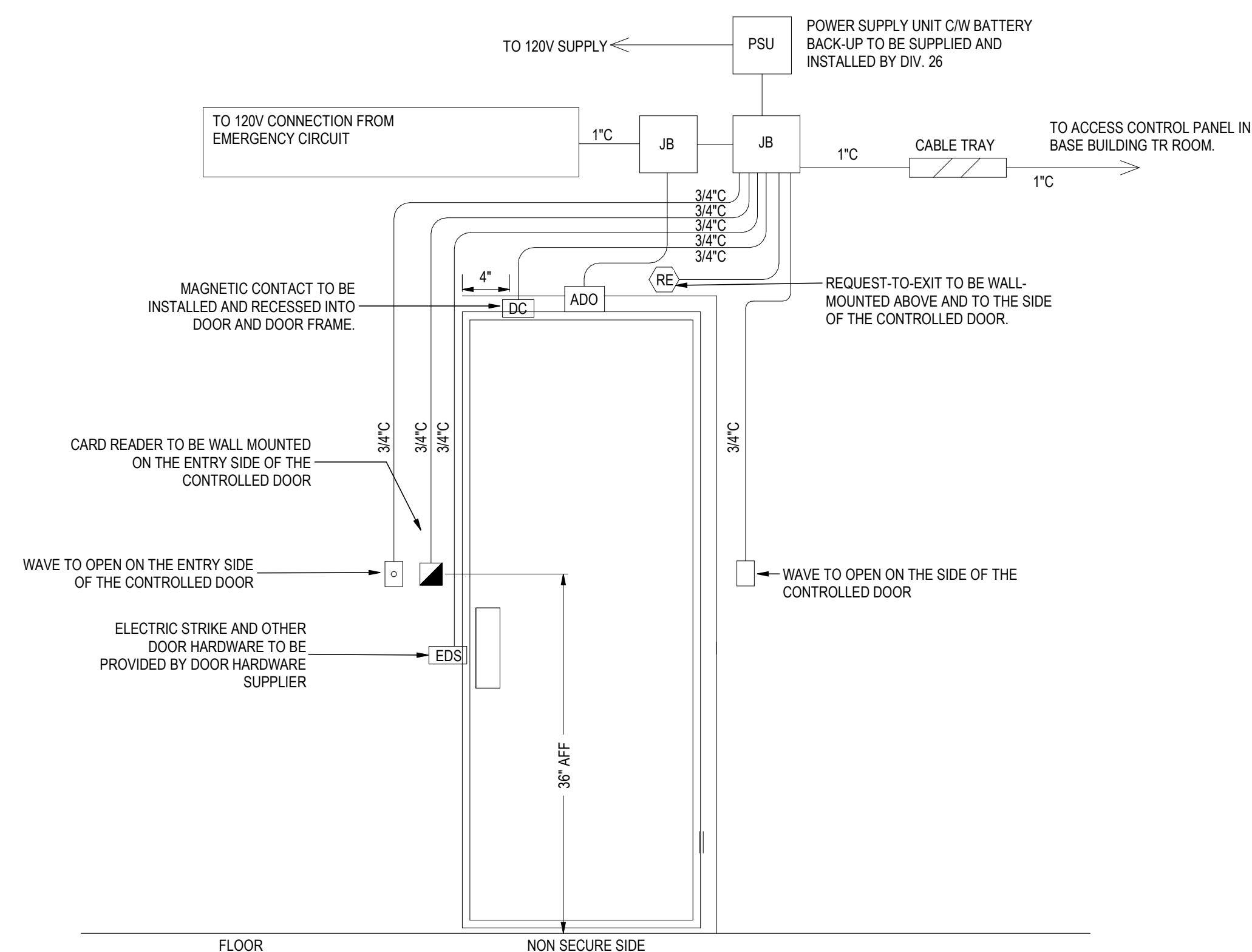
- NOTES:
- ALIGN ALL EQUIPMENT VERTICALLY AND HORIZONTALLY.
 - REFER TO ARCHITECTURAL DETAILS FOR USE OF NON-STANDARD MOUNTING HEIGHTS FOR DEVICES IN SPECIFIC CASES.

1 STANDARD MOUNTING HEIGHTS
E400 N.T.S



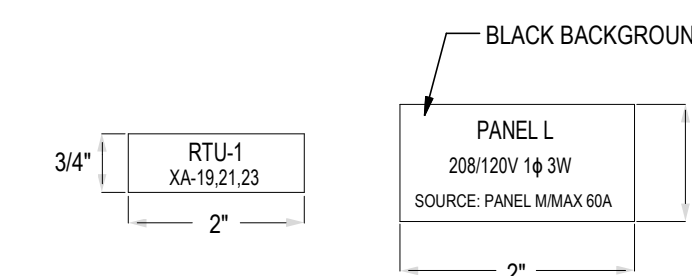
- NOTES:
- DOUBLE DUPLEX RECEPTACLE IS SHOWN, HOWEVER, PROVIDE SINGLE DUPLEX RECEPTACLE WHERE INDICATED ON THE PLANS. PROVIDE WHITE DEVICE WITH WHITE COVER PLATE. CONTRACTOR SHALL CONFIRM DEVICE COLOUR WITH INTERIOR DESIGNER PRIOR TO PROCUREMENT.
 - PROVIDE MINIMUM OF FOUR (4) PLATES WITH FILLER PLATES FOR EACH UNUSED PORT.

2 TYPICAL COMMUNICATIONS & POWER WALL OUTLET DETAILS
E400 N.T.S



- NOTES:
- PROVIDE CONDUITS, BOXES, AND WIRING AS INDICATED.

4 TYPICAL CONDUIT LAYOUT FOR A CARD READER ACCESS CONTROL SINGLE DOOR (FULL MONITORING)
E400 N.T.S



3 LAMICOID ID
E400 N.T.S

Issued/Revision	By	Appd	YYYY.MM.DD
B. ISSUED FOR CONSTRUCTION	MG	TF	2024.04.10
A. ISSUED FOR TENDER	BH	TF	2023.09.28

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Title
ELECTRICAL DETAILS

Project No. 144320228	Scale N.T.S
Revision B	Drawing No. E400