

	LEGEND
	NOTE: DEVICES SHOWN DOTTED ARE EXISTING
	LIGHTING
	FLUORESCENT STRIP LUMINAIRE
	CEILING MOUNTED TRACK LIGHTS
ф П	WALL MOUNTED FLUORESCENT LUMINAIRE
• •	PENDANT MOUNTED FLUORESCENT LUMINAIRE
	RECESSED MOUNTED 1200x600mm FLUORESCENT LUMINAIRE
0	SURFACE MOUNTED OR SUSPENDED DOWNLIGHT LUMINAIRE
Ģ	WALL MOUNTED DOWNLIGHT LUMINAIRE
	RECESSED MOUNTED DOWNLIGHT LUMINAIRE
Φ	UNSWITCHED WALL MOUNTED FLUORESCENT LUMINAIRE
<u>\$</u>	WALL MOUNTED LINE VOLTAGE SWITCH
\$ ³	WALL MOUNTED LINE VOLTAGE THREE WAY SWITCH
\$4 \$D	WALL MOUNTED DIAMED SWITCH
\$D	WALL MOUNTED DIMMER SWITCH
101	CEILING MOUNTED OCCUPANCY SENSOR INDICATES LUMINAIRE TYPE '101'
101	EMERGENCY LIGHTING BATTERY PACK
\$\$ \$\$\$	EMERGENCY LIGHTING REMOTE HEADS WALL MOUNTED COMPINATION EXIT LIGHT/EMERGENCY LIGHT
-80€ 80€	WALL MOUNTED COMBINATION EXIT LIGHT/EMERGENCY LIGHT
XY.	CEILING MOUNTED COMBINATION EXIT LIGHT/EMERGENCY LIGHT
	POWER
Ф	DUPLEX RECEPTACLE
#	FOURPLEX RECEPTACLE
ф	GROUND FAULT INTERRUPTER (GFI) DUPLEX RECEPTACLE
\bigcirc	SPECIAL RECEPTACLE (SINGLE PHASE)
(M)	ELECTRIC MOTOR
Ò	DISCONNECT SWITCH
\$ M₽	ELECTRICAL SWITCH (MP=MOTOR PROTECTION)
	SURFACE MOUNTED PANELBOARD
	COMMUNICATIONS
\Box	
∇	LOW TENSION OUTLET
\bigcirc _D,_T	DATA/VOICE OUTLET (REFER TO DWG. ANNOTATION FOR QUANTITY OF VOICE AND DATA OUTLETS)
	CONDUIT & COMMON SYMBOLS
	CONDUIT RUN IN WALL OR CEILING
	RECESSED MOUNTED LOW TENSION CABINET
	LOW TENSION ZONE BOX
<u>(x)</u>	KEYNOTE SYMBOL
\otimes	SINGLE LINE DIAGRAM WIRE IDENTIFICATION SYMBOL
<u>(x)</u>	MECHANICAL EQUIPMENT / KITCHEN EQUIPMENT SYMBOL
	ABBREVIATIONS
WP	WEATHERPROOF
СН	COUNTER HEIGHT
	FIRE ALARM
	FIRE ALARM
F	FIRE ALARM PULL STATION
SD	SMOKE DETECTOR
<u>E</u>	HEAT DETECTOR
(Ē)	FLOW VALVE MONITOR
<u>©</u>	TAMPER VALVE MONITOR (GATE)
	FIRE ALARM ISOLATOR
<u> </u>	FIRE ALARM HORN AND STROBE
	WALL MOUNTED FIRE ALARM STROBE
FR	FIRE ALARM RELAY
	SECURITY
O +	MOTION DETECTOR (REQUEST TO EXIT)
	CARD READER
	SECURITY KEYPAD
	SECURITY CAMERA
	DOOR CONTACT
GB	GLASS BREAK SENSOR
	SINGLE LINE DIAGRAM
	DELTA-WYE POWER TRANSFORMER
Y	
, M	POTENTIAL TRANSFORMER (PT)
3	CURRENT TRANSFORMER (CT)
(°	CIRCUIT BREAKER
Ш	FUSE
	MOTOR
(M)	MOTOR
M	
	PANELBOARD
	PANELBOARD



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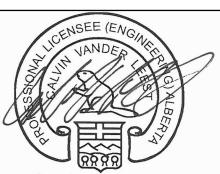
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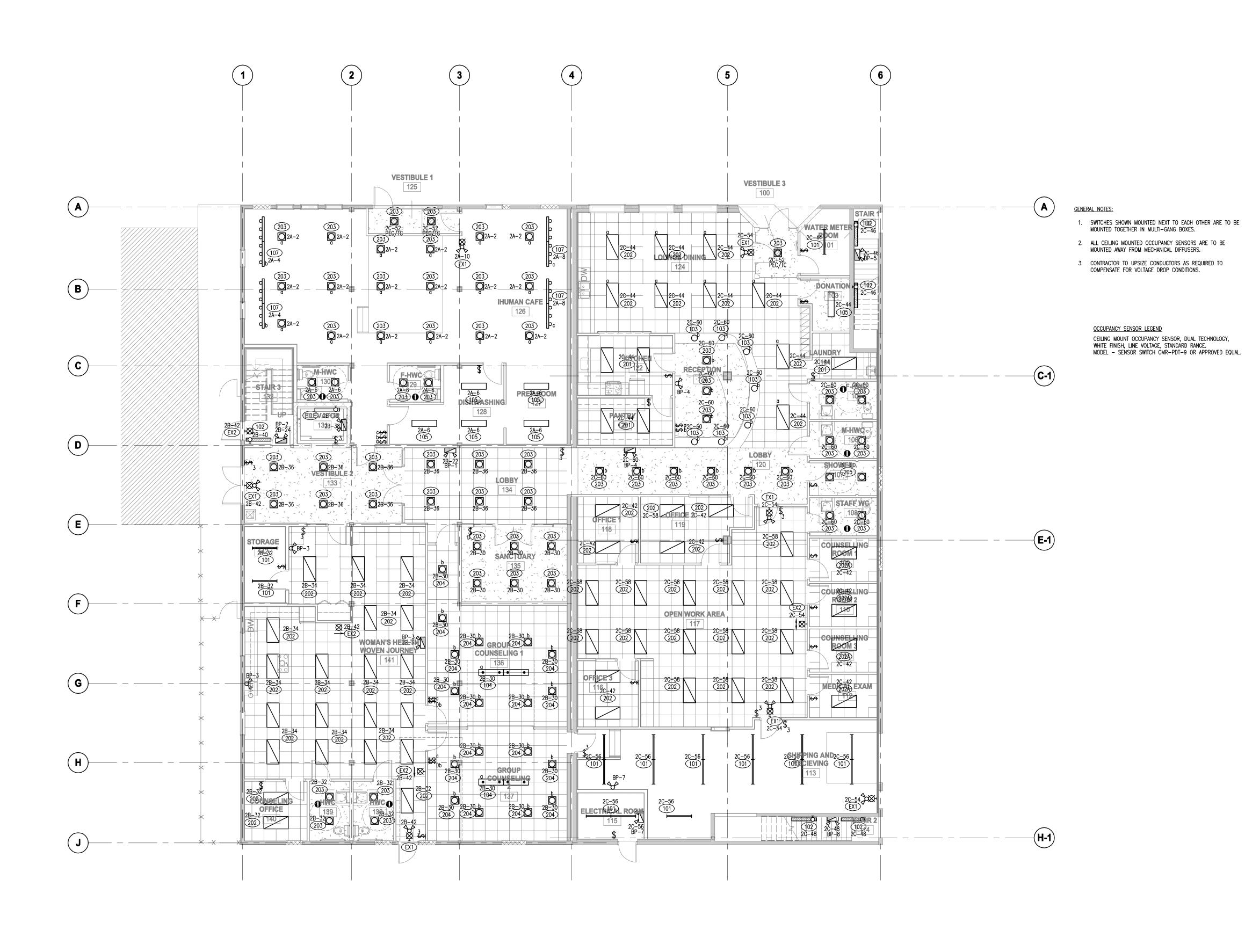
ELECTRICAL SITE PLAN

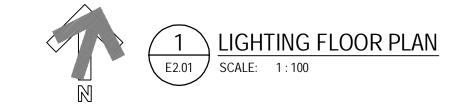
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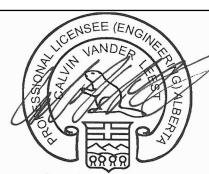
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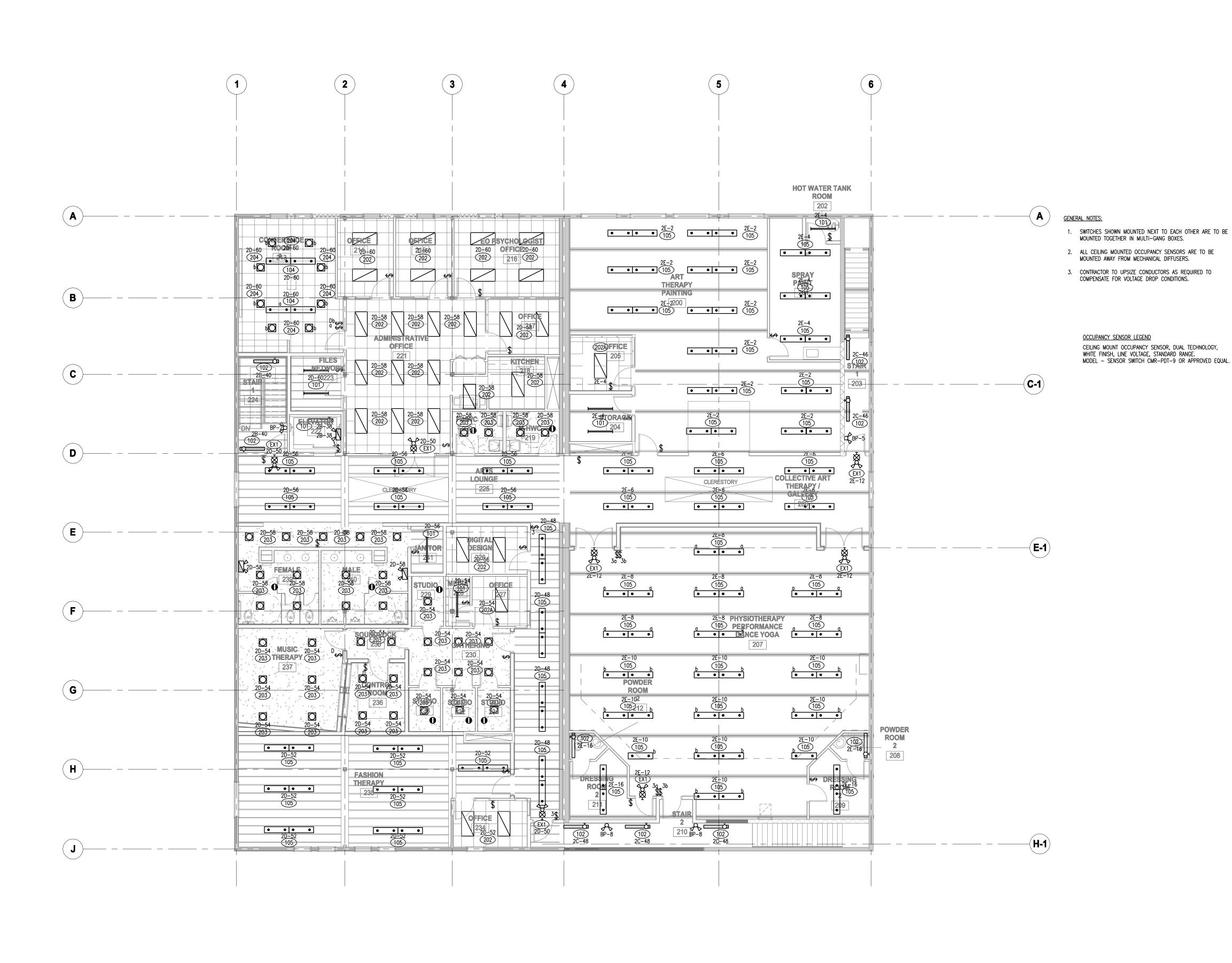
GROUND FLOOR LIGHTING PLAN

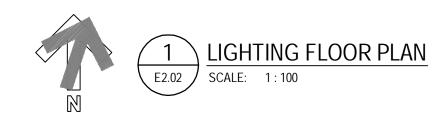
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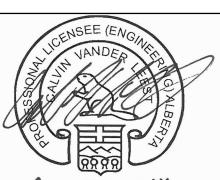
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SECOND FLOOR LIGHTING PLAN

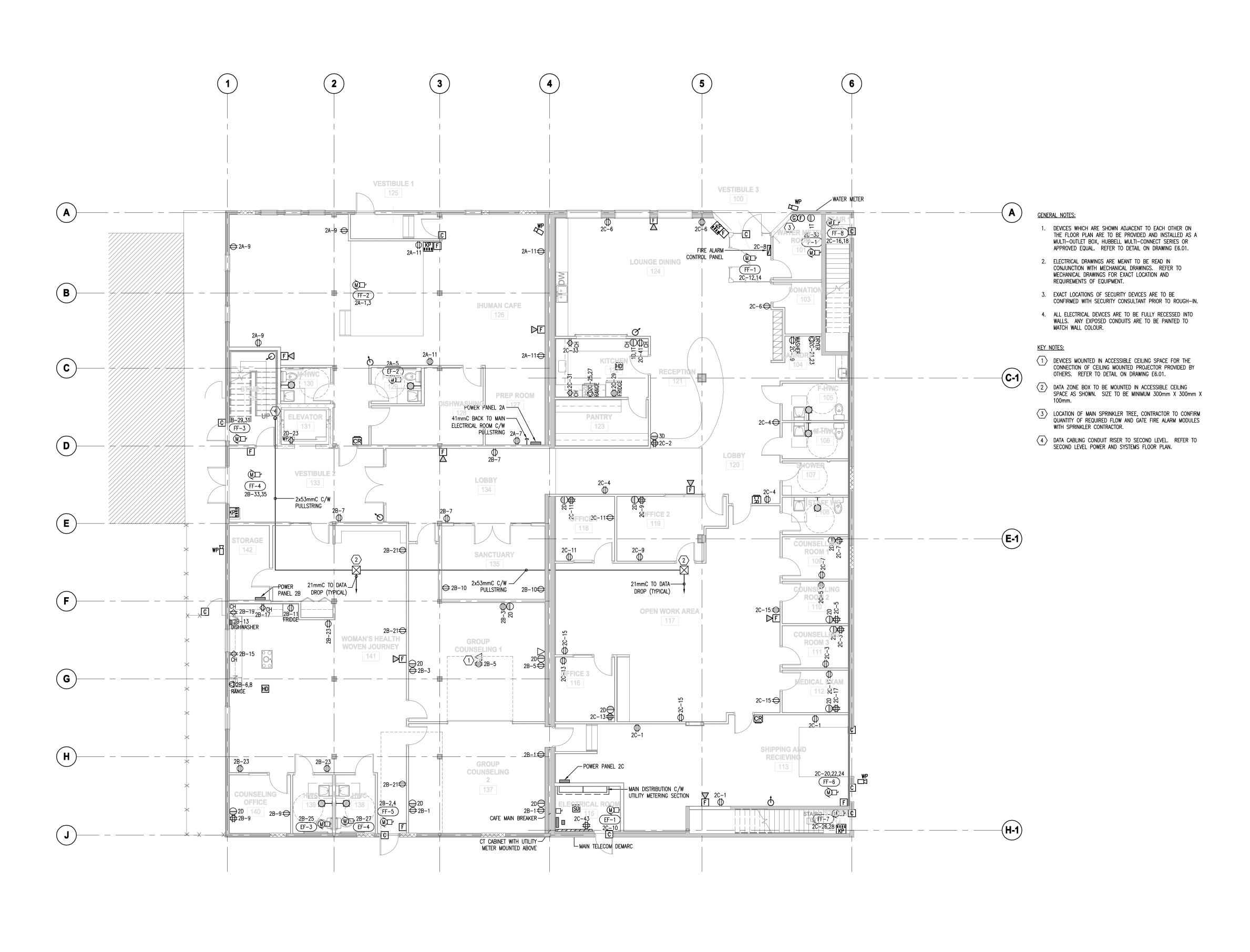
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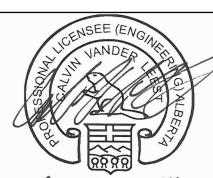
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DRAWING TITLE

GROUND FLOOR POWER & SYSTEMS PLAN

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1. DEVICES WHICH ARE SHOWN ADJACENT TO EACH OTHER ON THE FLOOR PLAN ARE TO BE PROVIDED AND INSTALLED AS A MULTI-OUTLET BOX, HUBBELL MULTI-CONNECT SERIES OR APPROVED EQUAL. REFER TO DETAIL ON DETAIL DRAWING. 2. ELECTRICAL DRAWINGS ARE MEANT TO BE READ IN CONJUNCTION WITH MECHANICAL DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND

3. EXACT LOCATIONS OF SECURITY DEVICES ARE TO BE CONFIRMED WITH SECURITY CONSULTANT PRIOR TO ROUGH-IN.

4. ALL ELECTRICAL DEVICES ARE TO BE FULLY RECESSED INTO WALLS. ANY EXPOSED CONDUITS ARE TO BE PAINTED TO MATCH WALL COLOUR.

REQUIREMENTS OF EQUIPMENT.

KEY NOTES:

GENERAL NOTES:

1) DEVICES MOUNTED IN ACCESSIBLE CEILING SPACE FOR THE CONNECTION OF CEILING MOUNTED PROJECTOR PROVIDED BY OTHERS. REFER TO DETAIL ON DETAIL DRAWING.

2 DATA ZONE BOX TO BE MOUNTED IN ACCESSIBLE CEILING SPACE AS SHOWN. SIZE TO BE MINIMUM 300mm X 300mm X

3 PROVIDE AND INSTALL TWO DEDICATED FUSED DISCONNECTS AS SHOWN. ONE FOR ELEVATOR MACHINE POWER, ONE FOR ELEVATOR CAB LIGHTING AND CONTROLS POWER.

4 DATA CABLING CONDUIT RISER FROM MAIN LEVEL. STUB 2x53mmC THROUGH SERVER ROOM WALL AND INTO CABLE

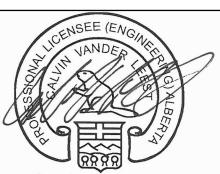
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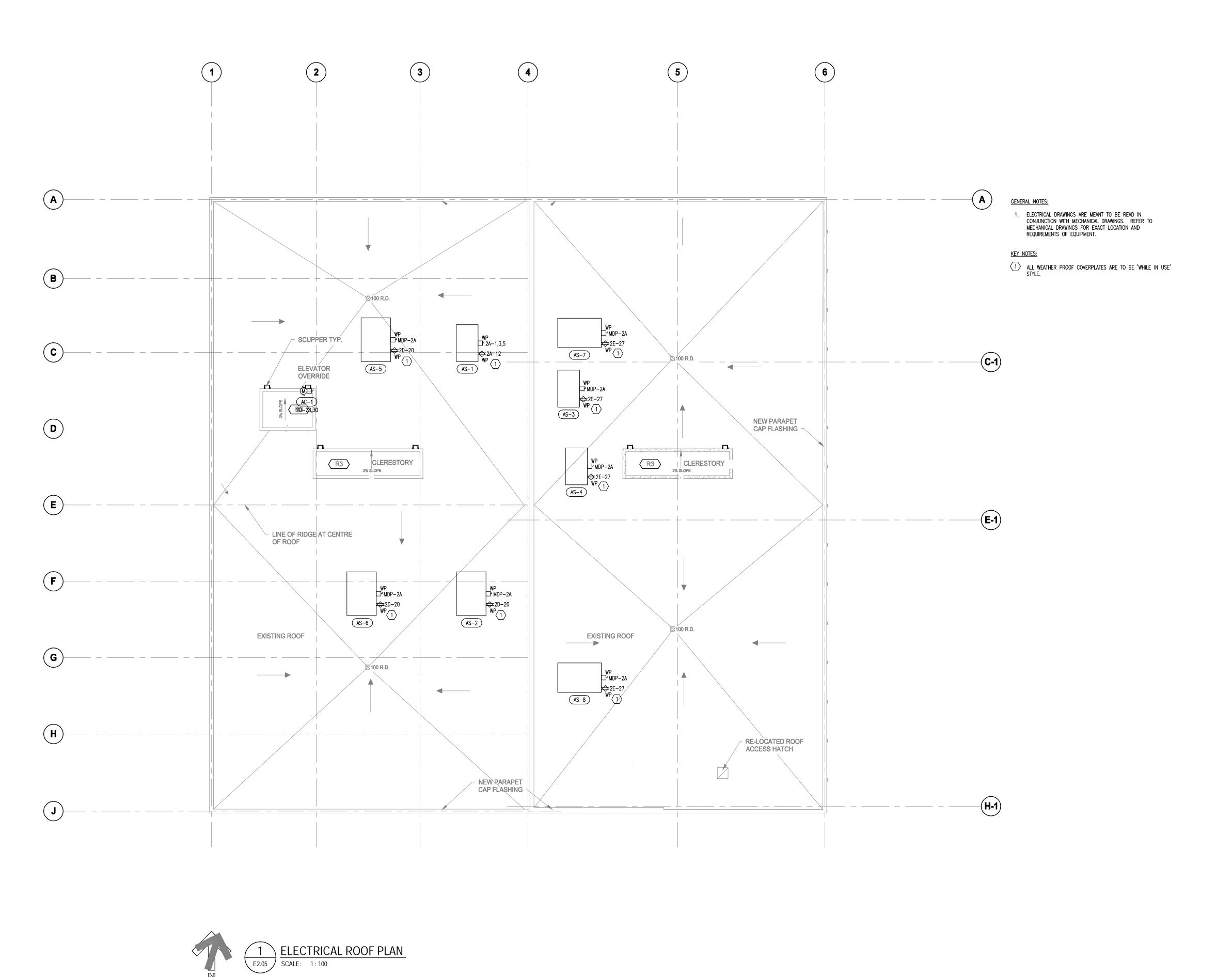
SECOND FLOOR POWER & SYSTEMS PLAN

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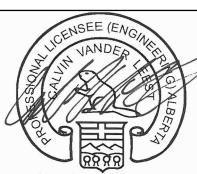
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ELECTRICAL ROOF PLAN

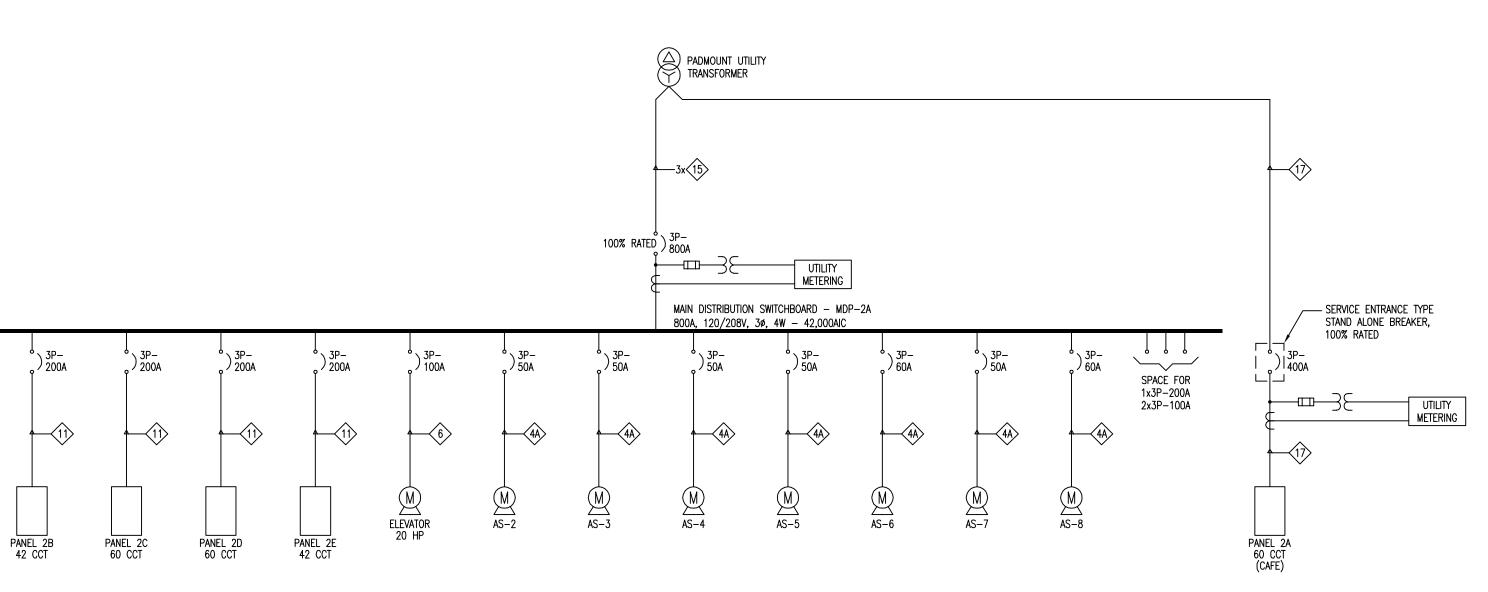
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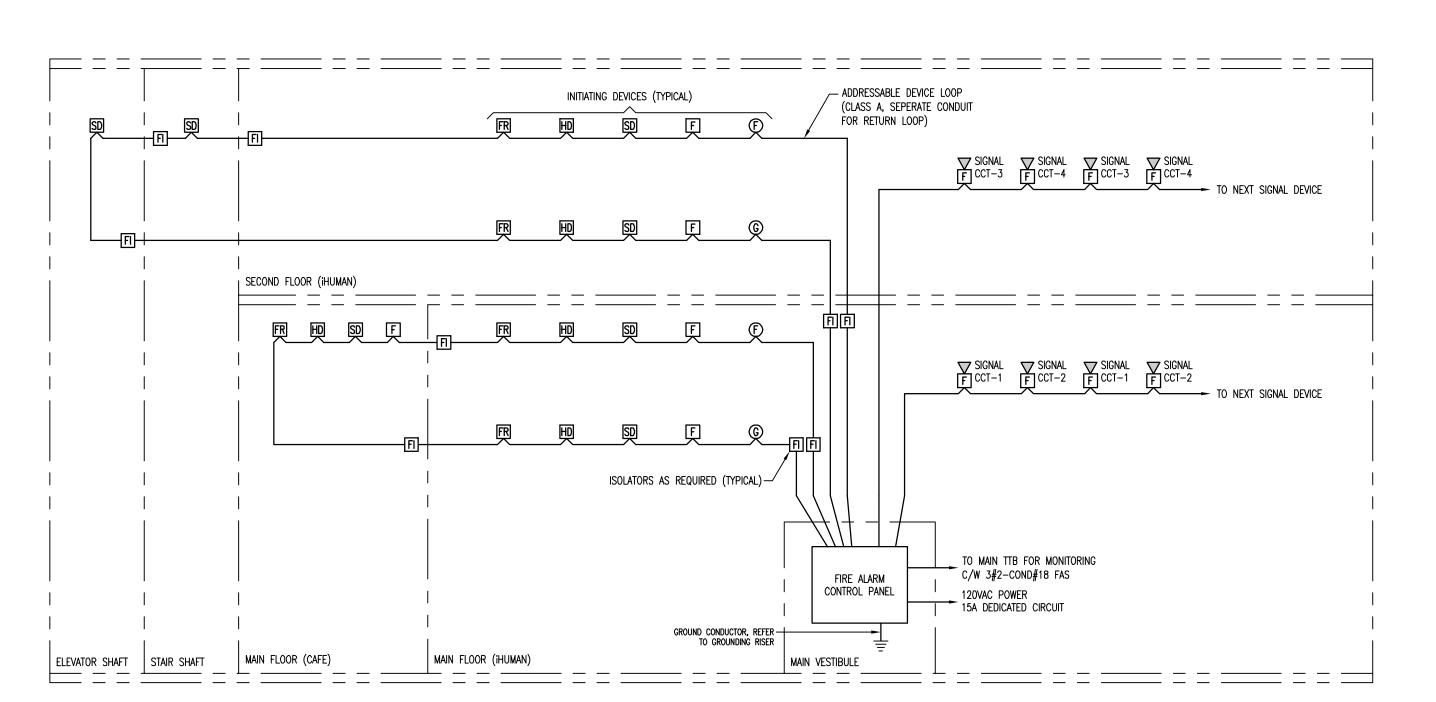
DRAWING NO.

2014-05-30 DRAWN AS SHOWN REVIEWED CVL / MPH



FEEDER AMPS.	FEEDER NO.	SIZE/TYPE	FEEDER NO.	SIZE/TYPE					
20	1	4 #12, 16mm C	1A	3 #12, 16mm C					
30	2	4 #10, 21mm C	2A	3 #10, 21mm C					
50	3	4 #8, 27mm C	3A	3 #8, 21mm C					
65	4	4 #6, 35mm C	4A	3 #6, 27mm C					
85	5	4 #4, 35mm C	5A	3 #4, 35mm C					
100	6	4 #3, 35mm C	6A	3 #3, 35mm C					
115	7	4 #2, 41mm C	7A	3 #2, 35mm C					
130	8	4 #1, 53mm C	8A	3 #1, 41mm C					
150	9	4 #1/0, 53mm C	9A	3 #1/0, 53mm C					
175	10	4 #2/0, 53mm C	10A	3 #2/0, 53mm C					
200	11	4 #3/0, 63mm C	11A	3 #3/0, 53mm C					
230	12	4 #4/0, 63mm C	12A	3 #4/0, 63mm C					
255	13	4 #250MCM, 78mm C	13A	3 #250MCM, 63mm C					
285	14	4 #300MCM, 78mm C	14A	3 #300MCM, 78mm C					
310	15	4 #350MCM, 78mm C	15A	3 #350MCM, 78mm C					
335	16	4 #400MCM, 91mm C	16A	3 #400MCM, 78mm C					
380	17	4 #500MCM, 103mm C	17A	3 #500MCM, 91mm C					

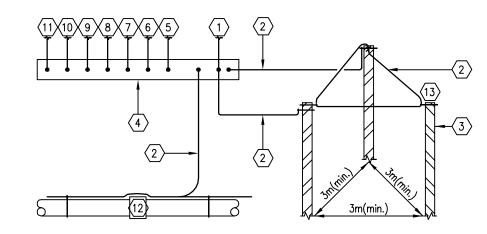
POWER DISTRIBUTION SINGLE LINE DIAGRAM E4.01 / SCALE: N.T.S.



<u>NOTES:</u>

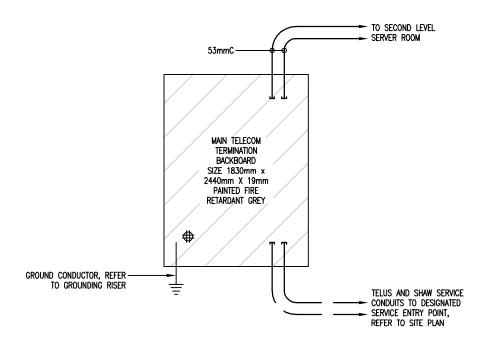
- 1. FOR INITIATING DEVICES DATA LOOP, THE RETURN TRUNK SHALL BE RUN IN A SEPARATE CONDUIT. PROVIDE LOOP ISOLATORS ON THE ADDRESSABLE LOOP TO COMPLY WITH ULC-S524 INSTALLATION STANDARD AND ULC-S527 VERIFICATION STANDARD, ISOLATORS TO BE MOUNTED IN ACCESSIBLE AREAS.
- 2. EACH OF THE FOLLOWING AREAS OF THIS FACILITY SHALL HAVE ITS OWN DEDICATED DATA LOOP, SIGNALING CIRCUITS AND CONTROL DEVICES LOOP:
 - LOOP 1: MAIN FLOOR LOOP 2: SECOND FLOOR
- 3. SIGNALING CIRCUITS SHALL NOT SERVE MORE THAN ONE FLOOR. CIRCUITING SHOWN FOR GROUPING PURPOSES ONLY, QUANTITY OF CIRCUITS DICTATED BY DEVICE COUNT. EACH SIGNALING CIRCUIT SHALL HAVE A MINIMUM OF 25% SPARE CAPACITY FOR FUTURE DEVICES. SIGNALING DEVICES ARE TO BE WIRED ON AN ALTERNATING CIRCUIT BASIS SO THAT ADJACENT DEVICES ARE NOT ON THE SAME CIRCUIT. (MAX 12 SIGNAL DEVICES PER CIRCUIT.)
- 4. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATIONS.
- 5. REFER TO MOTOR CONTROL SCHEDULE AND FLOOR PLANS FOR MECHANICAL SYSTEMS SHUTDOWN REQUIREMENTS.



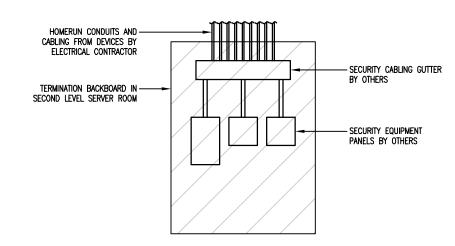


- 1) 25C-1#3/0 INSULATED CU. SYSTEM GROUND CONTINUOUS TO SERVICE NEUTRAL.
- $\langle 2 \rangle$ 2#3/0 INSULATED CU. BONDING CONDUCTOR.
- 3 19mm X 3m CU. CLAD GROUND ROD MIN. OF 3 REQUIRED.
- COPPER GROUND BUS, REFER TO DETAIL FOR TYPE. LOCATE ADJACENT TO MAIN DISTRIBUTION EQUIP.
- 5 20C-1#6 INSULATED CU. GRD. TO METAL WASTE PIPING SYSTEM.
- 20C-1#6 INSULATED CU. GRD. TO METAL GAS PIPING. PIPING TO BE MADE ELECTRICALLY CONTINUOUS.
- 7 20C-1#6 INSULATED CU. GRD. TO MAIN TELEPHONE TERMINAL BOARD. (8) INSULATED CU. GRD. TO ISOLATED GRD. PANEL. SEE POWER RISER.
- 9 12C-1#10 INSULATED CU. GRD. TO TELEVISION TERMINAL BOARD.
- (10) 12C-1#10 INSULATED CU. GRD. TO FIRE ALARM CONTROL PANEL.
- (11) 12C-1#10 INSULATED CU. GRD. TO INTRUSION ALARM CONTROL PNL.
- SERVICE WATER PIPE UTILIZE AS GRD. ELECTRODE IN ADDITION TO GRD. RODS IF CONTINUOUSLY CONDUCTIVE, PLACED 250mm UNDERGRD. BELOW PERMANENT MOISTURE LEVEL AND EXTENDS MORE THAN 3m BEYOND BUILDING. BOND CONDUCTOR TO BUILDING AND SUPPLY SIDE OF WATER METER.
- (13) FOR ALL GRD. CONNECTIONS UTILIZE CU. COMPRESSION CONNECTORS, T & B GRD. RODS, LUG BOLT AND 'C' TAP 50000 SERIES.





TELECOM RISER DIAGRAM E4.01 / SCALE: N.T.S.



<u>NOTES:</u>

1. WIRING REQUIREMENTS FOR SECURITY DEVICES ARE AS FOLLOWS: - SECURITY KEYPADS: 4 CONDUCTOR, 22 AWG, STRANDED, TWISTED PAIR. - MOTION SENSORS: 4 CONDUCTOR, 22 AWG, STRANDED, TWISTED PAIR. - GLASSBREAK SENSORS: 4 CONDUCTOR, 22 AWG, STRANDED, TWISTED PAIR. - CAMERAS: 2 CONDUCTOR, 18 AWG, STRANDED, TWISTED PAIR AND 1-RG59 CABLE. - REFER TO DOOR DETAIL FOR DOOR ACCESS CONTROL REQUIREMENTS.

SECURITY TERMINATION BACKBOARD DETAIL E4.01 SCALE: N.T.S.



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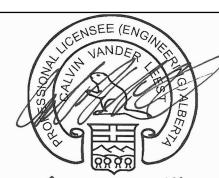
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DRAWING TITLE

ELECTRICAL RISER DIAGRAMS

DRAWING ISSUE

DRAWING NO.

ISSUED FOR PERMIT/ CONSTRUCTION MAY 30, 2014

PROJECT NO. PLOT DATE 2014-05-30 E13053 REVIEWED CVL / MPH SCALE AS SHOWN |

E4.01

			1./	AMP			
YPE	DESCRIPTION	ACCEPTABLE PRODUCTS	QTY	TYPE	VOLT	MOUNTING	REMARKS
101	FLUORESCENT GENERAL PURPOSE STRIP LIGHT, 1220mm NOMINAL LENGTH ELECTRONIC BALLAST, WIREGUARD.	DAY-BRITE — T SERIES METALUX — SNF SERIES LITHONIA — Z SERIES OR APPROVED EQUAL	2	32W T8 3500K	120	SUSPENDED	SUSPENDED AT 2700mm A.F.F.
102	FLUORESCENT WALL MOUNTED FIXTURE, LOW PROFILE WRAP, ELECTRONIC BALLAST, OPAL LENS, WHITE HOUSING.	DAY-BRITE — CUBE SERIES METALUX — CR SERIES LITHONIA — WC SERIES OR APPROVED EQUAL	2	32W T8 3500K	120	SURFACE	
103	DECORATIVE ARCHITECTURAL PENDANT, COMPACT FLUORESCENT, HAND BLOWN GLASS DIFFUSER, SATIN ALUMINUM HOUSING, NOMINAL 125mm DIAMETER.	LIGHTOLIER — FA01 SERIES OR APPROVED EQUAL	1	13W TT 3500K	120	SUSPENDED	
104	1220mm DIRECT/INDIRECT SUSPENDED FLUORESCENT FIXTURE, COLD—ROLLED STEEL HOUSING, SEMI—SPECULAR LOUVER, 80% DOWN/20% UP DISTRIBUTION, ELECTRONIC BALLAST, AIRCRAFT CABLE SUSPENDED, POWDER COAT ALUMINUM COLOUR FINISH.	LEDALITE — SONA SERIES CORELITE — i2 SERIES OR APPROVED EQUAL	2	32W T8 3500K	120	SUSPENDED	SUSPENDED 450mm BELOW FINISHED CEILING.
105	610mm X 1200mm SUSPENDED WRAPAROUND FLUORESCENT FIXTURE, COLD-ROLLED STEEL HOUSING, NARROW HOUSING, ACRYLIC LENS, ELECTRONIC BALLAST.	DAY-BRITE – OW SERIES METALUX – WN SERIES OR APPROVED EQUAL	2	32W T8 3500K	120	SURFACE OR SUSPENDED	BOTTOM OF FIXTURE TO BE SUSPENDED AT SAME LEVEL AS BOTTOM OF JOIST.
106	ULTRA LOW PROFILE FLUORESCENT UNDER-CABINET LIGHT FIXTURE, ROLLED STEEL CONSTRUCTION, ACRYLIC DIFFUSER, ELECTRONIC BALLAST, PAF WHITE FINISH.	DAY—BRITE — 8US SERIES METALUX — CL SERIES OR APPROVED EQUAL	1	32W T8 3500K	120	SURFACE	
107	INCANDESCENT STYLE TRACK LIGHT FIXTURE, DIE CAST ALUMINUM HOUSING, SINGLE CIRCUIT, LOCKABLE AIMING, INTEGRAL ON/OFF SWITCH, BLACK FINISH.	HALO — L10638 SERIES OR APPROVED EQUAL	1	PHILIPS 19W LED PAR38 FLOOD 3500K	120	SUSPENDED/SURFACE	SURFACE OR SUSPENDED MOUNT ACCORDING TO ARCHITECTURAL CEILING TYPE IN ROOM, REFER TO FLOOR PLANS. CONTRACTOR TO SUPPLY AND INSTALL LED REPLACEMENT STYLE LAMPS AS NOTED.
201	610mm X 1220mm FLUORESCENT TROFFER, SPECIFICATION GRADE, REGRESSED ALUMINUM WHITE FRAME AND DOOR, 0.125mm THICK #12 PATTERN ACRYLIC LENS, ELECTRONIC BALLAST	DAY-BRITE - TG8 SERIES METALUX - GC8 SERIES LITHONIA - SP8 SERIES OR APPROVED EQUAL	2	32W T8 3500K	120	RECESSED	
202	610mm X 1220mm FLUORESCENT TROFFER, ARCHITECTURAL DESIGN, ONE PIECE STEEL HOUSING, HINGED DOOR FRAME, SMOOTH OUTER ACRYLIC DIFFUSERS, WHITE RADIAL LOUVERS CENTRE DIFFUSER/REFRACTOR, ELECTRONIC BALLAST.	DAY-BRITE - SOFTRACE SERIES METALUX - ACCORD 2 SERIES LITHONIA - 2AL SERIES OR APPROVED EQUAL	2	32W T8 3500K	120	RECESSED	
202A	SAME AS TYPE 202, BUT WITH 3 LAMP.	DAY-BRITE - SOFTRACE SERIES METALUX - ACCORD 2 SERIES LITHONIA - 2AL SERIES OR APPROVED EQUAL	3	32W T8 3500K	120	RECESSED	
203	LED DOWNLIGHT, 150mm NOMINAL DIAMETER, WHITE REFLECTOR, WHITE FLANGE TRIM, MEDIUM DISTRIBUTION, 1500 NOMINAL LUMEN OUTPUT, 0-10V DIMMING DRIVER.	OMEGA — OM6LED SERIES OR APPROVED EQUAL	1	27W LED 3500K	120	RECESSED	
204	LED DOWNLIGHT, 100mm NOMINAL DIAMETER, WHITE REFLECTOR, WHITE FLANGE TRIM, MEDIUM DISTRIBUTION, 1000 NOMINAL LUMEN OUTPUT, 0-10V DIMMING DRIVER.	OMEGA — OM4LED SERIES OR APPROVED EQUAL	1	20W LED 3500K	120	RECESSED	
205	LED NON-CONDUCTIVE DOWNLIGHT, 150mm NOMINAL DIAMETER, WHITE REFLECTOR, WHITE FLANGE TRIM, MEDIUM DISTRIBUTION, C/W SHOWER LENS.	OMEGA — OM6LED SERIES OR APPROVED EQUAL	1	39W LED 3500K	120	RECESSED	
301	EXTERIOR WALL PACK HID FIXTURE, ONE PIECE DIE—CAST ALUMINUM HOUSING, HINGED REMOVABLE DOOR, HIGH REFLECTANCE ALUMINUM REFLECTORS, FLAT GLASS LENS, WEATHER RESISTANT POWDER COAT FINISH, DARK BRONZE COLOUR, WET LOCATION RATED.	KEENE — MAXI WALLCUBE SERIES LUMARK — WAL—PAK SERIES OR APPROVED EQUAL	1	PULSE START 70W MH	120	WALL MOUNTED	MOUNTING HEIGHT AS NOTED ON PLANS. PROVIDE STANDARD JUNCTION BOX FOR MOUNTING.
EX1	LED COMBO EMERGENCY/EXIT SIGN, SELF POWERED, EXTRUDED ALUMINUM CONSTRUCTION, C/W DUAL HEADS, LED, WHITE FINISH, SINGLE FACE, UNIVERSAL MOUNTING, NRCAN C860 REGISTERED.	BEGHELLI — QUADRA COMBO SERIES AIMLITE — CXAL SERIES OR APPROVED EQUAL	2	10W LED	120	SURFACE	WALL OR CEILING MOUNTED AS SHOWN ON DRAWINGS
EX2	LED EXIT SIGN, SELF POWERED, EXTRUDED ALUMINUM CONSTRUCTION, WHITE FINISH, SINGLE FACE, UNIVERSAL MOUNTING, NRCAN C860 REGISTERED.	BEGHELLI — QUADRA SERIES AIMLITE — EXAL SERIES OR APPROVED EQUAL	_	LED	120	SURFACE	WALL OR CEILING MOUNTED AS SHOWN ON DRAWINGS
ATTERY PACK	EMERGENCY LIGHTING BATTERY PACK, C/W DUAL HEADS, LED, STEEL CONSTRUCTION, WHITE COLOUR, AUTO—TEST SELF DIAGNOSTICS, SIZED TO PROVIDE 60 MINUTES OF LIGHTING ON LOSS OF NORMAL POWER.	BEGHELLI — NOVA SERIES AIMLITE — EBST SERIES OR APPROVED EQUAL	2	10W LED	120 12VDC	SURFACE	
EMOTE EADS	EMERGENCY LIGHTING REMOTE FIXTURE, DUAL HEADS, LED, DIE CAST METAL CONSTRUCTION, WHITE COLOUR.	BEGHELLI — BTMR SERIES AIMLITE — RMMB SERIES OR APPROVED EQUAL	2	10W LED	12VDC	SURFACE	

10.	EQUIPMENT	LOCATION	KW	HP	PHASE	VOLT	AMP	CIRCUIT	BREAKER	FEEDER	STARTER	SIZE P/L	KEYED	H.O.A.	S/S	N.O.	N.C.	CONTROL	REMARKS
S-1	AIR SYSTEM	ROOF	-	3.0	3	208V	33 MCA	PANEL 2A	3P-50A	3#6XL + GRD - 27mmC	INTEGRAL	-				_	-	DIV. 23	PACKAGED UNIT C/W STARTER, SINGLE POINT CONNECTION
S-2	AIR SYSTEM	ROOF	-	3.0	3	208V	41.1 MCA	MDP-2A	3P-50A	3#6XL + GRD - 27mmC	INTEGRAL	-				-	-	DIV. 23	PACKAGED UNIT C/W STARTER, SINGLE POINT CONNECTION
S-3	AIR SYSTEM	ROOF	-	3.0	3	208V	33 MCA	MDP-2A	3P-50A	3#6XL + GRD - 27mmC	INTEGRAL	-				_	_	DIV. 23	PACKAGED UNIT C/W STARTER, SINGLE POINT CONNECTION
S-4	AIR SYSTEM	ROOF	-	3.0	3	208V	41.1 MCA	MDP-2A	3P-50A	3#6XL + GRD - 27mmC	INTEGRAL	-				-	-	DIV. 23	PACKAGED UNIT C/W STARTER, SINGLE POINT CONNECTION
S-5	AIR SYSTEM	ROOF	-	3.0	3	208V	41.1 MCA	MDP-2A	3P-50A	3#6XL + GRD - 27mmC	INTEGRAL	-				-	-	DIV. 23	PACKAGED UNIT C/W STARTER, SINGLE POINT CONNECTION
S-6	AIR SYSTEM	ROOF	-	3.0	3	208V	48.5 MCA	MDP-2A	3P-60A	3#6XL + GRD - 27mmC	INTEGRAL	-				-	-	DIV. 23	PACKAGED UNIT C/W STARTER, SINGLE POINT CONNECTION
S-7	AIR SYSTEM	ROOF	-	3.0	3	208V	41.1 MCA	MDP-2A	3P-50A	3#6XL + GRD - 27mmC	INTEGRAL	-				-	-	DIV. 23	PACKAGED UNIT C/W STARTER, SINGLE POINT CONNECTION
S-8	AIR SYSTEM	ROOF	-	3.0	3	208V	48.5 MCA	MDP-2A	3P-60A	3#6XL + GRD - 27mmC	INTEGRAL	-				-	-	DIV. 23	PACKAGED UNIT C/W STARTER, SINGLE POINT CONNECTION
F-1	CEILING EXHAUST FAN	SHIPPING 122		1/4 HP	1	120V	-	PANEL 2C	1P-15A	2#12XL + GRD - 21mmC	COMBO MAG	-		•			_	DIV. 23	INTERLOCKED WITH AS-4
F-2	CEILING EXHAUST FAN	WR 128	-	1/4 HP	1	120V	-	PANEL 2A	1P-15A	2#12XL + GRD - 21mmC	COMBO MAG	-		•		-	-	DIV. 23	INTERLOCKED WITH AS-2
F-3	CEILING EXHAUST FAN	WR 138	-	FRAC	1	120V	-	PANEL 2B	1P-15A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	ON/OFF CONTROL
F-4	CEILING EXHAUST FAN	STORAGE 139	-	FRAC	1	120V	-	PANEL 2B	1P-15A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	ON/OFF CONTROL
- 5	CEILING EXHAUST FAN	WR 218	-	FRAC	1	120V	-	PANEL 2D	1P-15A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	ON/OFF CONTROL
-6	CEILING EXHAUST FAN	STORAGE 235	-	1/4 HP	1	120V	-	PANEL 2D	1P-15A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	ON/OFF CONTROL
F-7	CEILING EXHAUST FAN	STORAGE 204	-	FRAC	1	120V	-	PANEL 2E	1P-15A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	ON/OFF CONTROL
F-8	CEILING EXHAUST FAN	DARK ROOM 206	-	1/3 HP	1	120V	-	PANEL 2E	1P-15A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	ON/OFF CONTROL
F-9	CEILING EXHAUST FAN	STORAGE 209	-	FRAC	1	120V	-	PANEL 2E	1P-15A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	ON/OFF CONTROL
-10	CEILING EXHAUST FAN	STAIR 210	-	FRAC	1	120V	-	PANEL 2E	1P-15A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	ON/OFF CONTROL
F-1	FORCE FLOW	VEST 101	5.0	-	1	208V	24.0	PANEL 2C	2P-30A	2#10XL + GRD - 21mmC	_	-					_	DIV. 23	C/W INTEGRAL THERMOSTAT
F-2	FORCE FLOW	VEST 125	3.0	_	1	208V	14.4	PANEL 2A	2P-20A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	C/W INTEGRAL THERMOSTAT
F-3	FORCE FLOW	STAIR 129	3.0	_	1	208V	14.4	PANEL 2B	2P-20A	2#12XL + GRD - 21mmC	-	-				_	_	DIV. 23	C/W INTEGRAL THERMOSTAT
-4	FORCE FLOW	ENTRY 132	3.0	-	1	208V	14.4	PANEL 2B	2P-20A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	C/W INTEGRAL THERMOSTAT
F-5	FORCE FLOW	KITCHEN 135 ENTRY	3.0	-	1	208V	14.4	PANEL 2B	2P-20A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	C/W INTEGRAL THERMOSTAT
-6	FORCE FLOW	SHIPPING 122	5.0	-	3	208V	13.9	PANEL 2C	3P-20A	3#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	LINE VOLTAGE TSTAT WIRED BY ELECTRICAL CONTRACTOR
F-7	FORCE FLOW	STAIRS 124	3.0	-	1	208V	14.4	PANEL 2C	2P-20A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	C/W INTEGRAL THERMOSTAT
- -8	FORCE FLOW	STAIRS 103	3.0	-	1	208V	14.4	PANEL 2C	2P-20A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	C/W INTEGRAL THERMOSTAT
-1	RECIRCULATION PUMP	SPRINKLER ROOM 115	_	FRAC	1	120V	-	PANEL 2C	1P-15A	2#12XL + GRD - 21mmC	_	-				_	-	DIV. 23	ON/OFF CONTROL
VH-1	GAS FIRED HOT WATER HEATER	HOT WATER ROOM	-	FRAC	1	120V	-	PANEL 2E	1P-15A	2#12XL + GRD - 21mmC	-	-				-	-	DIV. 23	PROVIDE DEDICATED 15A RECEPTACLE
C-1	SPLIT AC CONDENSING UNIT	SERVER ROOM/ROOF	_	_	1	208V	25 MCA	PANEL 2D	2P-30A	2#10XL + GRD - 21mmC	INTEGRAL	-				_	-	DIV. 23	POWER TO INDOOR UNIT IS SUPPLIED THROUGH OUTDOOR UNI

1. LOCAL MOTOR PROTECTION DISCONNECT SWITCH AS SHOWN ON PLANS. THERMOSTAT PROVIDED BY DIVISION 23, WIRED AND INSTALLED BY DIVISION 26.
2. COORDINATE LOCATIONS AND INSTALLATION REQUIREMENTS OF ALL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH—IN.

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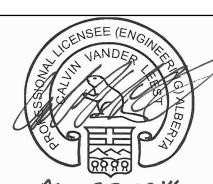
2014-05-30 RE-ISSUED FOR BUILDING PERMIT AND ISSUED FOR CONSTRUCTION 2013-09-13 BUILDING PERMIT 2013-08-16 75% COORDINATION 2013-08-07 50% COORDINATION REV. YYYY-MM-DD REVISION / DRAWING ISSUE

HEMISPHERE

10950 - 119 Street, Edmonton, Alberta, T5H 3P5 TEL (780) 452-1800 FAX (780) 453-5205 HE# E13053-10

PERMIT STAMP

CONSULTANT



May 30,2014 E13053 PERMIT TO PRACTICE HEMISPHERE ENGINEERING INC.
Signature Date May hay 2014. PERMIT NUMBER: P 4520 The Association of Professional Engineers, Geologists and Geophysicists of Alberta

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iHUMAN FACILITY RENOVATION

9625 102A AVE, EDMONTON, ALBERTA, CANADA

DRAWING TITLE

ELECTRICAL SCHEDULES

DRAWING ISSUE

ISSUED FOR PERMIT/ CONSTRUCTION MAY 30, 2014

2014-05-30 DRAWN PROJECT NO. E13053

AS SHOWN REVIEWED CVL / MPH SCALE DRAWING NO.

E5.01

LOCATION:	lhuman	126											
BUS AMPS:	225						MIN AIC: 22000						
							100% RATED NEUTRAL BUS						
M.L.O.													
SURFACE MOUNT					HAS	SE	EQUIPMENT GROUND BUS						
LOAD DESCRIPTION	TRIP	POLE	NO.	Α	В	С	NO.	POLE		LOAD DESCRIPTION			
FF-2	20	2	1	Х			2	1	15	IHUMAN RECEPTION POT LIGHTS			
-	-	-	3		Х		4	1	15	IHUMAN RECEPTION TRACK LIGHTS			
EF-2	15	1	5			X	6	1	15	PREP AREA LIGHTING			
PANEL RECEPTACLE	15	1	7	X			8	1	15	IHUMAN RECEPTION TRACK LIGHTS			
WEST RECEPTACLES	15	1	9		Х		10	1	15	EXIT LIGHTS			
EAST RECEPTACLES	15	1	11	1		X	12	1	15	RTU RECEPTACLE			
SPARE	15	1	13	Х			14						
SPARE	15	1	15		Х		16						
SPARE	15	1	17			X	18						
SPARE	15	1	19	Х			20						
			21	1	Х		22						
			23	1		X	24						
			25	X			26						
			27	1	Х		28						
			29	1		X	30						
			31	X			32						
			33	1	Х		34						
			35	1		X	36						
			37	X			38						
			39	1	Х		40						
			41	1		X	42						

ELECTRICAL PANEL SCHEDULE

VOLTAGE: 120 /208

PANEL:	2B					VOLTA	GE:	120	/208					
FED FROM:	MDP-2	A				\dashv	3 PHASE, 4 WIRE							
LOCATION:	STORA				·									
BUS AMPS:	225	MIN AI	C:	22000										
		100%	RATEDIN	EUTRAI	BUS									
M.L.O.														
SURFACE MOUNT	I IDEACE MOLINIT				HASE	EQUIP	MENT G	ROUND	BUS					
LOAD DESCRIPTION	TRIP	POLE	NO.	A	В	NO.	POLE	TRIP	LOAD DESCRIPTION					
GROUP COUNSELING 2 ROOM RECEPTACLES	15	1	1	X		2	2	20	FF-5					
GROUP COUNSELING ROOM RECEPTACLES	15	1	3	1	X	4	-	-	-					
GROUP COUNSELING ROOM RECEPTACLES	15	1	5	1		6	2	40	KITCHEN OVEN					
CIRCULATION SPACE RECEPTACLES	15	1	7	X		8	- 1	-	-					
COUNSELING OFFICE RECEPTACLES	15	1	9	1	X	10	1	15	SANCTUARY RECEPTACLES					
KITCHEN FRIDGE	15	1	11	1		12	1	15	SPARE					
DISHWASHER	15	1	13	X		14								
KITCHEN COUNTER RECEPTACLE	15	1	15	1	X	16								
KITCHEN COUNTER RECEPTACLE	15	1	17	1		(18								
KITCHEN COUNTER RECEPTACLE	15	1	19	X		20								
WOMENS HEALTH RECEPTACLES	15	1	21	1	X	22	1	15	SPARE					
WOMENS HEALTH RECEPTACLES	15	1	23	1		24	1	15	SPARE					
EF-3	15	1	25	X		26	1	15	SPARE					
EF-4	15	1	27	1	X	28	1	15	SPARE					
FF-3	20	2	29	1		30	1	15	GROUP COUNSELING LIGHTING					
-	-	-	31	 x		32	1	15	SW STORAGE, OFFICE, WASHROOM LIGHTING					
FF-4	20	2	33	1	X	34	1	20	WOMENS HEALTH LIGHTING					
-	-	-	35	1		36	1	15	LOBBY AND VESITBULE LIGHTING					
			37	X		38	1	15	ELEVATOR PIT LIGHTING					
			39	1	X	40	1	15	STAIR THREE LIGHTS					
			41	1		4 2	1	15	EXIT LIGHTS					

PANEL:	2D						VOLTA	GF ·	120	/208				
FED FROM:	MDP-2/	Α					3 PHASE, 4 WIRE							
LOCATION:		GE ROC	OM 236											
BUS AMPS:	AMPS: 225													
					MIN AI0	RATEDIN	22000 IEUTRA							
VI.L.O.:														
SURFACE MOUNT				Τ_			EQUIPMENT GROUND BUS							
				P	HA:	SE								
	TRIP	POLE	NO.	Α	В	С	NO.	POLE	TRIP	LOAD DESCRIPTION				
KITCHEN COUNTER RECEPTACLE	15	1	1	X		П	2	1	15	SPARE				
KITCHEN COUNTER RECEPTACLE	15	1	3	1	X		4	1	15	SPARE				
KITCHEN COUNTER RECEPTACLE	15	1	5	1		X	6	1	15	SPARE				
OFFICE 215 RECEPTACLES	15	1	7	X			8	1	15	ADMIN OFFICE COPIER				
OFFICE 211 RECEPTACLES	15	1	9	1	X		10	1	15	SERVER BACKBOARD RECEPTACLE				
OFFICE 213/214 RECEPTACLES	15	1	11	1		X	12	1	15	SERVER BACKBOARD RECEPTACLE				
CONFERENCE ROOM RECEPTACLES	15	1	13	X			14	1	15	SERVER BACKBOARD RECEPTACLE				
CONFERENCE ROOM RECEPTACLES	15	1	15	1	X		16	1	20	SERVER ROOM TRAY RECEPTACLE				
LOUNGE CORRIDOR RECEPTACLES	15	1	17	1		X	18	1	20	SERVER ROOM TRAY RECEPTACLE				
			19	X			20	1	15	RTU RECEPTACLES				
ELEVATOR CAB LTG AND POWER	15	1	21	1	X		22	1	15	SPARE				
ELEVATOR PIT RECEPTACLE	15	1	23	1		X	24	1	15	EF-5				
DIGITAL DESIGN OFFICE RECEPTACLES	15	1	25	X			26	1	15	EF-6				
STUDIO RECEPTACLES	15	1	27	1	X		28	2	30	AC-1				
STUDIO RECEPTACLES	15	1	29	1		X	30	-	-	-				
SOUND OFFICE RECEPTACLES	15	1	31	X			32							
CONTROL/SOUND ROOMS RECEPTACLES	15	1	33	1	X		34							
COUNSELLING OFFICE RECEPTACLES	15	1	35	1		X	36							
FASHION THERAPY RECEPTACLES	15	1	37	X			38							
FASHION THERAPY RECEPTACLES	15	1	39		X		40							
ADMIN OFFICE RECEPTACLES	15	1	41			X	42							
			43	X			44							
			45		X		46							
			47			X	48	1	15	CORRIDOR LIGHTS				
			49	X			50	1	15	EXIT SIGNS				
			51		X		52	1	15	FASHION AREA LIGHTS				
			53			X	54	1	15	SOUND AND STUDIO LIGHT				
			55	X			56	1	15	LOUNGE AND WASHROOM LIGHTS				
			57		X		58	1	15	ADMINISTRATIVE OFFICE LIGHTS				
			59			X	60	1	15	CONFERENCE ROOM & NORTH OFFICE LIGHTS				

		ELECT	NOA		<u> </u>					/200						
PANEL:	2C	Λ					VOLTA		120							
FED FROM:	MDP-2		NA 444						3 PHAS	E, 4 WIRE						
LOCATION:		GE ROC) ∨ 141				MIN AIC: 22000									
BUS AMPS:	225						I		22000	DLIO						
41.0							100% RATED NEUTRAL BUS									
A.L.O.:				_			FOLUD	VIENTO	DOLIND	DLIO.						
SURFACE MOUNT				PI	HAS	SE	EQUIPMENT GROUND BUS									
	TRIP	POLE	NO.	IA	В	С	NO.	POLE	TRIP	LOAD DESCRIPTION						
RECEIVING BAY RECEPTACLES	15	1	1	X			2	1	15	RECEPTION DESK RECEPTACLE						
COUNSELING 3 ROOM RECEPTACLES	15	1	3	1	X		4	1	15	CORRIDOR RECEPTACLES						
COUNSELING 2 ROOM RECEPTACLES	15	1	5	1	"	$ _{X} $	6	1	15	LOUNGE RECEPTACLES						
COUNSELING 1 ROOM RECEPTACLES	15	1	7	X			8	1	15	FIRE ALARM CONTROL PANEL						
OFFICE 2 ROOM RECEPTACLES	15	1	9	1	X		10	1	15	EF-1						
OFFICE 1 ROOM RECEPTACLES	15	1	11	1		x	12	2	30	FF-1						
OFFICE 3 ROOM RECEPTACLES	15	1	13	X			14	-	-	-						
COMMON WORK AREA RECEPTACLES	15	1	15	1	X		16	2	20	FF-8						
MEDICAL EXAM RECEPTACLES	15	1	17	1		x	18	-	-	_						
WASHING MACHINE	15	1	19	X			20	-	-	-						
CLOTHES DRYER	30	2	21	1	X		22	3	20	FF-6						
-	-	-	23	1		X	24	-	-	-						
KITCHEN RANGE	40	2	25	X			26	2	20	FF-7						
-	-	- 1	27	1	X		28	-	-	-						
KITCHEN FRIDGE	15	1	29	1		X	30	1	15	P-1						
KITCHEN RECEPTACLE	15	1	31	X			32									
KITCHEN RECEPTACLE	15	1	33	1	Х		34	1	15	SPARE						
LOUNGE COUNTER RECEPTACLE	15	1	35	1		X	36	1	15	SPARE						
LOUNGE COUNTER RECEPTACLE	15	1	37	X			38	1	15	SPARE						
LOUNGE COUNTER RECEPTACLE	15	1	39	1	X		40	1	15	SPARE						
KITCHEN RECEPTACLE	15	1	41	1		X	42	1	15	OFFICES LIGHTING						
MAIN TTB RECEPTACLE	15	1	43	X			44	1	15	RECEPTION/LOUNGE/DINING LIGHTS						
			45		X		46	1	15	STAIR 1 LIGHTS						
			47			X	48	1	15	STAIR 2 LIGHTS						
			49	X			50	1	15	EXTERIOR LIGHTING						
			51		X		52	1	15	EXTERIOR LIGHTING						
			53			X	54	1	15	EXIT SIGNS						
			55	X			56	1	15	SHIPPING AND RECEIVING LIGHTS						
			57		X		58	1	15	COMMON WORK AREA AND OFFICE LIGHTS						
			59			X	60	1	15	RECEPTION/LOUNGE/DINING LIGHTS						

		ELEC1	TRICA	L P	PAN	IEL	SCH	EDUL	Ξ					
PANEL:	2E					V	/OLTA	GE:	120	/208				
FED FROM:	MDP-2	A					3 PHASE, 4 WIRE							
LOCATION:	STORA	GE RO	OM 204											
BUS AMPS:	225					IV	/IN AI	D:	22000					
M.L.O.				100% RATED NEUTRAL BUS										
M.L.O.								AENTO		DLIO				
SURFACE MOUNT				Р	HAS	SE E	:QUIPI	MENT G	ROUND	BOS				
LOAD DESCRIPTION	TRIP	POLE	NO.	Α	В	С	NO.	POLE	TRIP	LOAD DESCRIPTION				
ART THERAPY RECEPTACLES	15	1	1	Х			2	1	20	ART THERAPY TRAINING LIGHTS				
ART THERAPY RECEPTACLES	15	1	3	1	X		4	1	15	ART PAINTING OFFICE LIGHTS				
ART THERAPY RECEPTACLES	15	1	5	1		X	6	1	15	COLLECTIVE ART THERAPY LIGHTS				
ART OFFICE RECEPTACLES	15	1	7	1 x			8	1	15	PHYSIOTHERPAY LIGHTS				
SILKSCREEN/DARK ROOM RECEPTACLES	15	1	9	1	X		10	1	15	PHYSIOTHERPAY LIGHTS				
DIGITAL PRINT/WET ROOM RECEPTACLES	15	1	11	1		X	12	1	15	EXIT SIGNS				
PERFORMANCE RECEPTACLES	15	1	13	X			14	1	15	HOT WATER TANK				
PERFORMANCE RECEPTACLES	15	1	15	1	X		16	1	15	DRESSING ROOM LIGHTS				
COLLECTIVE ART RECEPTACLES	15	1	17	1		x	18	1	15	SPARE				
PERFORMANCE RECEPTACLES	15	1	19	X			20	1	15	SPARE				
			21	1	X		22	1	15	SPARE				
PERFORMANCE DANCE SOUND RECEPTACLE	50	2	23	1		x	24	1	15	SPARE				
-	-	-	25	1 x			26							
RTU RECEPTACLES	15	1	27	1	X		28							
EF-7	15	1	29	1		x	30							
EF-8	15	1	31	X			32							
EF-9	15	1	33	1	X		34							
EF-10	15	1	35	1		x	36							
	1	1	37	X			38							
	1	1	39	1	X		40							
		1	41	1		x	42							



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2014-05-30 RE-ISSUED FOR BUILDING PERMIT AND ISSUED FOR CONSTRUCTION 2013-09-13 BUILDING PERMIT 2013-08-16 75% COORDINATION 2013-08-07 50% COORDINATION REV. YYYY-MM-DD REVISION / DRAWING ISSUE

HEMISPHERE

10950 - 119 Street, Edmonton, Alberta, T5H 3P5 TEL (780) 452-1800 FAX (780) 453-5205 HEI# E13053-10

PERMIT STAMP

CONSULTANT



May 30,2014 E13053 PERMIT TO PRACTICE HEMISPHERE ENGINEERING INC.
Signature PERMIT NUMBER: P 4520 The Association of Professional Engineers, Geologists and Geophysicists of Alberta

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IHUMAN FACILITY RENOVATION

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DRAWING TITLE

ELECTRICAL PANEL SCHEDULES

DRAWING NO.

ISSUED FOR PERMIT/ CONSTRUCTION MAY 30, 2014

2014-05-30 DRAWN PROJECT NO. E13053 AS SHOWN REVIEWED CVL / MPH

E5.02

