

# ECHELON CENTRE TENANT FIT-OUT

## VANCOUVER, BC

CIVIC ADDRESS
6F - 575 8TH AVENUE WEST, VANCOUVER, BC

DRAWING LIST	
DWG. NO.	SHEET TITLE
E001	DRAWING LIST, GENERAL NOTES & SYMBOLS
E002	ELECTRICAL SPECIFICATIONS
E003	SINGLE LINE, CALCULATIONS & SCHEDULES
E100	NEW POWER & LOW TENSION PLAN
E101	NEW LIGHTING & FIRE ALARM PLAN
E200	DEMOLITION POWER & LOW TENSION PLAN
E201	DEMOLITION LIGHTING PLAN

GENERAL NOTES	
1	CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, CONDUCTORS, JUNCTION BOXES AND RECEPTACLES UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2	CONTRACTOR SHALL READ THESE DRAWINGS IN CONJUNCTION WITH THE CANADIAN ELECTRICAL CODE (CURRENT EDITION), MECHANICAL AND ARCHITECTURAL DRAWINGS, VANCOUVER BUILDING BY-LAW (CURRENT EDITION), AND ALL OTHER PROJECT RELATED DOCUMENTATION. SCOPE OF WORK IS NOT LIMITED TO THESE DRAWINGS BUT INCLUDES ALL ITEMS AS LISTED ON DRAWINGS, SPECIFICATION AND ALL OTHER PROJECT RELATED DOCUMENTATION.
3	FIELD COORDINATE ELECTRICAL DEVICES AND EQUIPMENT WITH OTHER DIVISIONS ON SITE. ADJUST ELECTRICAL DEVICE AND EQUIPMENT PLACEMENT AS REQUIRED TO SUIT FIELD CONDITIONS. ALL NEW ELECTRICAL INSTALLATION SHALL BE IN CONFORMANCE WITH THE CANADIAN ELECTRICAL CODE (CURRENT EDITION) AND VANCOUVER BUILDING BY-LAW (CURRENT EDITION) INCLUDING CLEARANCES AND SETBACKS.
4	CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL DEVICES AND COMPONENTS WITH EQUIPMENT MANUFACTURERS AND SUPPLIER. NOT ALL SYSTEM COMPONENTS ARE SHOWN. CONTRACTOR SHALL PROVIDE ALL COMPONENTS, DEVICES, AND MATERIAL AS REQUIRED TO ENSURE INSTALLATION OF A COMPLETE AND FUNCTIONAL SYSTEM.
5	CONTRACTOR SHALL CONFIRM WIRING SIZING AND ENSURE THAT VOLTAGE DROPS IN ALL BRANCH CIRCUIT AND FEEDER MEET CODE REQUIREMENT.
6	ALL WIRING SHALL BE INSTALLED IN CONDUIT SYSTEMS AS INDICATED. ALL CONDUITS SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.
7	ENSURE THAT POWER, COMMUNICATION CABLES AND CONTROL WIRING TO BE IN SEPARATE CONDUIT SYSTEMS.
8	CONTRACTOR SHALL BOND ALL NON-CURRENT CARRYING METAL PARTS OF THE SYSTEM AS REQUIRED BY CODE. ENSURE ALL PARTS OF THE SYSTEM ARE GROUNDED AND EXISTING GROUNDING AND BONDING SYSTEMS ARE PROTECTED AND MAINTAIN CONDUCTIVITY.
9	CONTRACTOR SHALL VERIFY THE NEW ELECTRICAL SYSTEMS ARE TESTED, STARTED, AND READY FOR USE PRIOR TO TURNOVER TO THE OWNER. CONTRACTOR SHALL FIELD TEST THE ENTIRE SYSTEM AND ENSURE IT IS OPERATIONAL, AND READY FOR USE. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER OF ALL SYSTEMS AS PART OF THIS SCOPE OF WORK. ALL TEST REPORTS SHALL BE SUBMITTED TO ENGINEER.

LIGHTING	
\$	SINGLE POLE SWITCH
\$	DOUBLE POLE SWITCH
\$	THREE POLE SWITCH
⌘	FOUR POLE SWITCH
⊖	LOW VOLTAGE SWITCH - SINGLE
⊖	LOW VOLTAGE SWITCH - MULTIPLE X: # OF POLES
OS \$	LINE VOLTAGE OCCUPANCY SENSOR SWITCH - OS2 = 2-POLE
OS \$	LOW VOLTAGE OCCUPANCY SENSOR SWITCH
D \$	LINE VOLTAGE DIMMER SWITCH
\$	LOW VOLTAGE DIMMER SWITCH
P \$	LINE VOLTAGE SWITCH WITH PILOT LIGHT
K \$	LINE VOLTAGE KEY SWITCH
\$	LINE VOLTAGE TIMER SWITCH
2 3 4 \$ \$ \$	LINE VOLTAGE SWITCH #: POLES/WAYS
TC	TIME CLOCK
⊖ ⊕	OCCUPANCY SENSOR - WALL AND CEILING D: INDICATES WITH DAYLIGHT SENSOR
⊖ ⊕	PHOTOCELL/DAYLIGHT SENSOR - WALL AND CEILING
⊖	WALL MOUNTED FIXTURE
⊖	CEILING SURFACE/PENDANT MOUNT FIXTURE
⊖	RECESSED FIXTURE
⊖	PENDANT MOUNTED FIXTURE
⊖	BOLLARD FIXTURE
⊖	POLE MOUNTED FIXTURE
⊖	TRACK HEAD AND TRACK
>	DIRECTIONAL LUMINAIRE INDICATOR
⊖ ⊕ SW CCT	RECESSED 2X4 FIXTURE (WITH SWITCH LEG AND CIRCUIT ATTRIBUTES - TYPICAL)
⊖	RECESSED 1X4 FIXTURE
⊖	RECESSED 2X2 FIXTURE
⊖	CEILING SURFACE/SUSPENDED 2X4 FIXTURE
⊖	CEILING SURFACE/SUSPENDED 1X4 FIXTURE
⊖	CEILING SURFACE/SUSPENDED 2X2 FIXTURE
⊖	2FT STRIP (SURFACE OR SUSPENDED - AS INDICATED)
⊖	4FT STRIP (SURFACE OR SUSPENDED - AS INDICATED)
⊖	2FT WALL FIXTURE
⊖	4FT WALL FIXTURE
⊖	FLEXIBLE CORD LIGHTING
⊖	NIGHT LIGHT OR EMERGENCY FIXTURE (TYPICAL)
⊖	LUMINAIRE TYPE TAG

POWER	
⊖	DUPLEX RECEPTACLE (5-16R TYPE UNLESS INDICATED OTHERWISE); PROVIDE WITH 2 USB PORTS IF MARKED "U"
⊖	DUPLEX RECEPTACLE (5-20R)
⊖	GFCI DUPLEX RECEPTACLE
⊖	SPLIT RECEPTACLE
⊖	SINGLE RECEPTACLE
⊖	DIRECT CONNECTION (OR CONNECTION TYPE AS INDICATED)
⊖	GFCI QUAD RECEPTACLE
⊖	QUAD RECEPTACLE
⊖	QUAD RECEPTACLE (5-20R)
⊖	SPECIAL RECEPTACLE - TYPE AS INDICATED
⊖	FLOOR RECEPTACLE (DUPLEX)
⊖	CEILING RECEPTACLE (DUPLEX)
⊖	ISOLATED GROUND FLOOR RECEPTACLE
⊖	ISOLATED GROUND CEILING RECEPTACLE
⊖ ⊖ ⊖	JUNCTION BOX (WALL, CEILING, IN GROUND)
⊖	BASEBOARD HEAT
⊖	MOTOR
⊖	MOTOR AND DISCONNECT
⊖	MOTOR AND FUSED DISCONNECT
⊖	MOTOR AND MAGNETIC STARTER
⊖	DISCONNECT
⊖	FUSED DISCONNECT
⊖	MAGNETIC STARTER
⊖	HAND OFF AUTO CONTROL
⊖	VARIABLE FREQUENCY DRIVE
MP \$	MANUAL MOTOR STARTER
⊖	THERMOSTAT
⊖	PUSH BUTTON - TYPE AS INDICATED
⊖	ELECTRICAL POWER PANEL - SURFACE OR FLUSH AS INDICATED
⊖	PANEL - TYPE AS INDICATED
⊖	GROUND/BOND BUS BAR
—	CONDUIT STUB
—	CONDUIT UP
—	CONDUIT DOWN
•	INDICATES DEVICE IS ABOVE COUNTER; 44" AFF UNLESS NOTED OTHERWISE
⊖	AUTOMATIC DOOR OPENER
⊖	AUTOMATIC DOOR OPENER PUSH PLATE
⊖	JUNCTION BOX FOR FURNITURE POWER WHIP CONNECTION
⊖	FEED-THRU JUNCTION BOX FOR DATA CABLES TO FEED DESKS
⊖	AUDIO / VISUAL CONNECTION

FIRE ALARM	
⊖	FIRE ALARM STROBE
⊖	FIRE ALARM HORN
⊖	FIRE ALARM HORN/STROBE
⊖	PEIZO HORN
⊖	PEIZO HORN/STROBE
⊖	WALL MOUNTED FIRE ALARM SPEAKER
⊖	CEILING MOUNTED FIRE ALARM SPEAKER
⊖	DUCT DETECTOR
⊖	HEAT DETECTOR - ROR: RATE OF RISE, FIX: FIXED
⊖	SMOKE DETECTOR
⊖	MANUAL STATION
⊖	HEAT DETECTOR ALARM
⊖	CARBON MONOXIDE ALARM/DETECTOR
⊖	MONITORING MODULE
⊖	CONTROL MODULE
⊖	FIRE ALARM RELAY
⊖	END OF LINE DEVICE
⊖	ISOLATION MODULE
⊖	DOOR HOLD OPEN
⊖	TAMPER SWITCH
⊖	FLOW SWITCH
⊖	PRESSURE SWITCH
⊖	LEVEL SWITCH
⊖	FIRE ALARM TELEPHONE OR AS NOTED
⊖	FIRE ALARM PANEL - TYPES: FACP, FAAP, DACT

EMERGENCY LIGHTING	
⊖	WALL EXIT, TYPE AS INDICATED
⊖	CEILING EXIT, TYPE AS INDICATED
⊖	WALL REMOTE HEADS - TYPE AS INDICATED
⊖	CEILING REMOTE HEADS - TYPE AS INDICATED
⊖	BATTERY PACK
⊖	BATTERY PACK WITH REMOTE HEADS
⊖	BATTERY PACK WITH REMOTE HEADS AND EXIT SIGN

ABBREVIATIONS	
EX	EXISTING DEVICE TO REMAIN
RM	REMOVE EXISTING DEVICE
RL	RELOCATE EXISTING DEVICE
ER	EXISTING DEVICE IN RELOCATED POSITION
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED FLOOR
ARC	ARC FAULT
BMS	BUILDING MANAGEMENT SYSTEM
C	CEILING MOUNTED DEVICE
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
DW	DISHWASHER
DR	DRYER
F&S	FAUCET & SOAP
FAX	FAX MACHINE
FR	REFRIGERATOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUCIATOR PANEL
GF	GROUND FAULT
GFR	GROUND FAULT RECEPTACLE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HK	HOUSE KEEPING
IG	ISOLATED GROUND
JB	JUNCTION BOX
MCC	MOTOR CONTROL CENTER
MW	MICROWAVE
PRT	PRINTER
RA	RANGE
RCD	RECESSED MOUNTED DEVICE
RSP	RADIO SPEAKER
RVC	RADIO VOLUME CONTROL
SPR	SURGE PROTECTED RECEPTACLE
SRF	SURFACE MOUNTED DEVICE
TR	TAMPER RESISTANT
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TV	TELEVISION
TYP	TYPICAL
WAP	WIRELESS ACCESS POINT
W	WALL MOUNTED DEVICE
WP	WEATHERPROOF
DC	DISCONNECT AND MAKE SAFE
SW	SWITCHED RECEPTACLE PER ASHRAE REQUIREMENTS

COMMUNICATIONS	
⊖	WALL STRUCTURED WIRING OUTLET - #: NUMBER AND TYPES. IF UNMARKED, DEFAULT IS 1D1V (1xDATA AND 1XVOICE)
⊖	FLOOR STRUCTURED WIRING OUTLET - #: NUMBER AND TYPES
⊖	CEILING STRUCTURED WIRING OUTLET - #: NUMBER AND TYPES
⊖	WALL COAXIAL OUTLET - #: NUMBER OF DROPS
⊖	FLOOR COAXIAL OUTLET - #: NUMBER OF DROPS
⊖	CEILING COAXIAL OUTLET - #: NUMBER OF DROPS
⊖	INTERCOM STATION
AV	AUDIO VISUAL BOX / WALL TERMINATION POINT
⊖	INTERCOM MASTER/MAIN STATION
⊖	FIBRE OPTIC OUTLET - #: NUMBER OF DROPS, SM: SINGLE MODE, MM: MULTIMODE
⊖	CLOCK WALL
⊖	CLOCK CEILING
⊖	DATA FEED-THROUGH OUTLET

SECURITY / LOW TENSION	
⊖	CAMERA
⊖	CAMERA - PAN/TILT/ZOOM
⊖	CARD READER
⊖	SECURITY KEYPAD (OR KEYPAD TYPE AS INDICATED)
⊖	REQUEST TO EXIT PUSH BUTTON
⊖	REQUEST TO EXIT SENSOR
⊖	PANIC BUTTON
⊖	BUZZER AND KEYSWITCH
⊖	ELECTROMAGNETIC LOCK
⊖	ELECTRIFIED DOOR HARDWARE
⊖	ELECTRIC STRIKE
⊖	DOOR POSITION SWITCH
⊖	DOOR PUSH BUTTON
⊖	MOTION DETECTOR - WALL MOUNTED

PUBLIC ADDRESS	
⊖	WALL MOUNTED SPEAKER
⊖	CEILING MOUNTED SPEAKER
⊖	WALL / GROUND / CEILING AUDIO VIDEO JACK - TYPES AS INDICATED

ELECTRICAL POWER, LIGHTING, OTHER EQUIPMENT DESIGN (ENERGY)	
VANCOUVER BUILDING BY-LAW:	2014
ELECTRICAL DESIGN:	
ENERGY STANDARD / CODE:	ASHRAE 90.1-2010
POWER COMPLIANCE PATH:	PRESCRIPTIVE
IN ACCORDANCE WITH:	8.1.5 ALTS TO EB
LIGHTING COMPLIANCE PATH:	PRESCRIPTIVE
LIGHTING DESIGN METHOD:	SPACE-BY-SPACE
IN ACCORDANCE WITH:	9.1.2 LIGHTING ALTERATIONS
OTHER EQUIPMENT PATH:	N/A
IN ACCORDANCE WITH:	N/A

D	08/08/18	ISSUED FOR TENDER
C	08/02/18	ISSUED FOR BUILDING PERMIT
B	07/23/18	ISSUED FOR REVIEW & COORDINATION
A	07/20/18	ISSUED FOR COORDINATION
No.	DATE	REVISION

PROJECT TITLE  
**TENANT FIT-OUT FOR ECHELON CENTRE**  
6F-575 8TH AVE. WEST  
VANCOUVER

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SHEET TITLE  
**DRAWING LIST, GENERAL NOTES, & SYMBOLS**

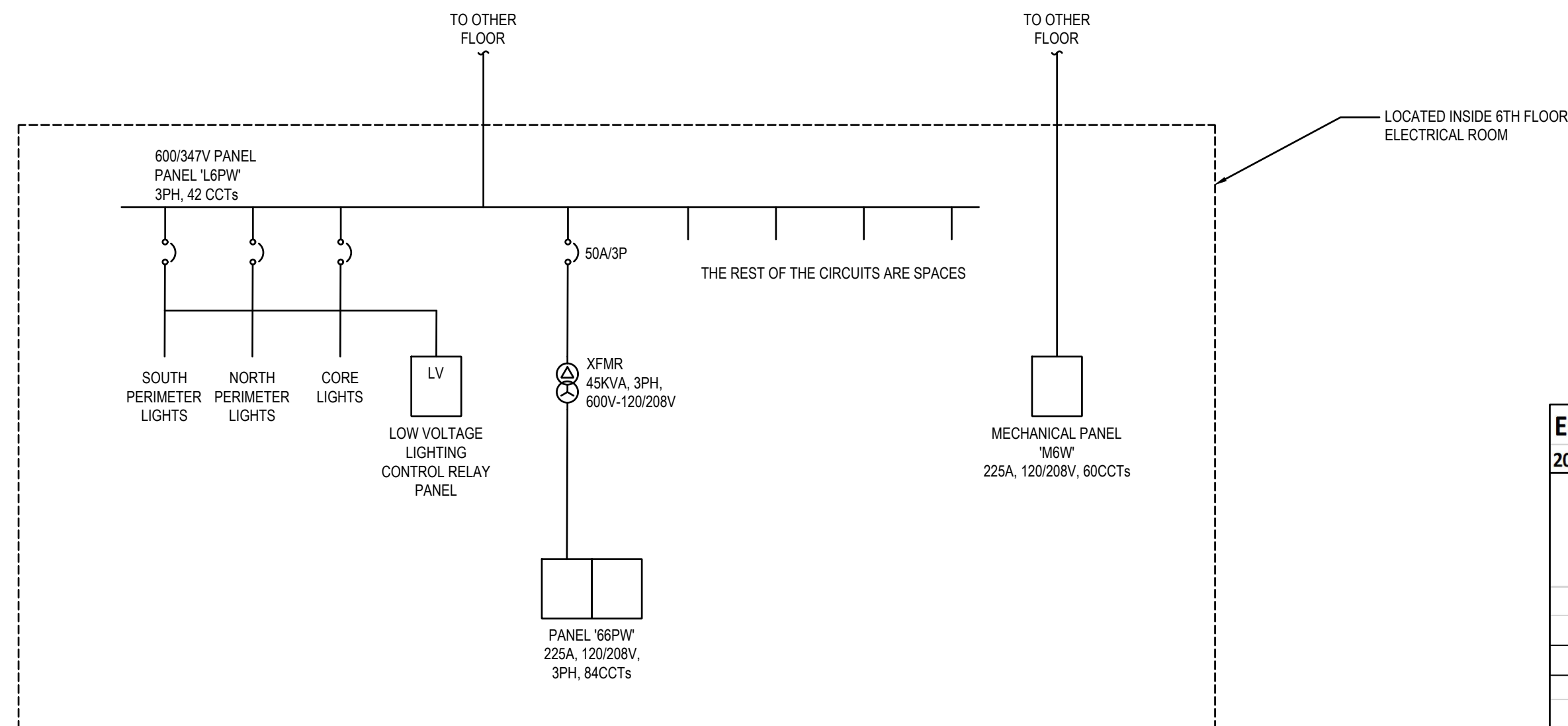
PROJECT No.	0030278.00
DRAWN	AG
CHECKED	MA
SCALE	AS NOTED
DATE	JULY 2018
PRINTED	AUGUST 2018

DRAWING No.  
**E001**

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CHERNOFF THOMPSON ARCHITECTS





Echelon Office		CEC Table 14										
Area Name	Approx. Floor Area (sqft)	Occupancy Type	Power Density (Watts/sq meter)	Power Density (Watts/sqft)	Basic Load (Watts)	Connected Lighting Load (Watts)	Basic Load minus lighting loads (Watts)	Connected Mechanical loads (w/ Demand factor 80%)	Equipment Power Allowance (w/ Demand factor 80%)	Total Load (Watts)	Line Current (Amps @ 208V, 3ph)	Existing transformer serving 208V loads
OFFICE (6th LEVEL)	6,188	Office	50	4.65	28,744	4,608	24,136	266	4,000	28,403	79	
<b>Sub Total</b>	<b>6,188</b>				<b>28,744</b>			<b>266</b>	<b>4,000</b>	<b>28,403</b>	<b>79</b>	<b>45kVA</b>

2 TENANT ELECTRICAL LOAD CALCULATION

**SINGLE LINE NOTES**  
 1 ALL COMPONENTS SHOWN ON THIS SINGLE LINE DIAGRAM ARE EXISTING AND SHALL BE RETAINED OR MODIFIED AS NOTED.

1 EXISTING PARTIAL SINGLE LINE DIAGRAM

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 No. DATE REVISION (dd/mm/yr)

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**SHEET TITLE**  
 SINGLE LINE, CALCULATIONS & SCHEDULES

PROJECT No. 0030278.00  
 DRAWN AG  
 CHECKED MA  
 SCALE AS NOTED  
 DATE JULY 2018  
 PRINTED AUGUST 2018

DRAWING No.  
 E003

EXISTING PANEL '66PW' (208/120V, 3PH)					LOCATION: 6TH FLOOR ELECTRICAL ROOM			
NOTE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	NOTE
	TELCOM SERVER OUTLETS	1P20A	1	A	2			
	TELCOM SERVER OUTLETS	1P20A	3	B	4	1P20A	BREAKAREA612 DEDICATED FOR COFFEE MACHINE	
	OPEN WORKSTATIONS #3 DESKS (611)	1P20A	5	C	6	1P20A	BREAKAREA612 DEDICATED FOR MICROWAVE	
	OPEN WORKSTATIONS #3 DESKS (611)	1P20A	7	A	8	1P20A	PRINT / COPY 609 DEDICATED REC	
	OPEN WORKSTATIONS #3 DESKS (611)	1P20A	9	B	10	1P20A	OPEN WORKSTATIONS #2 DESKS (606)	
	OPEN WORKSTATIONS #3 DESKS (611)	1P20A	11	C	12	1P20A	MEETING ROOM FLOOR BOX PROJECTOR	
	OPEN WORKSTATIONS #3 DESKS (611)	1P20A	13	A	14	1P20A	POWER FOR SECURITY SYSTEM	
	OPEN WORKSTATIONS #3 DESKS (611)	1P20A	15	B	16	1P15A	EXHAUST FANS	
	OPEN WORKSTATIONS #3 DESKS (611)	1P20A	17	C	18			
	OPEN WORKSTATIONS #3 DESKS (611)	1P20A	19	A	20			
	MEETING ROOM 607 RECS	1P20A	21	B	22			
	OPEN WORKSTATIONS #2 DESKS (606)	1P20A	23	C	24			
	OPEN WORKSTATIONS #2 DESKS (606)	1P20A	25	A	26			
	OPEN WORKSTATIONS #2 DESKS (606)	1P20A	27	B	28			
	OPEN WORKSTATIONS #2 DESKS (606)	1P20A	29	C	30			
	OPEN WORKSTATIONS #2 DESKS (606)	1P20A	31	A	32			
	VFRS DEPUTY OFFICE 605 RECS	1P20A	33	B	34			
	BREAKOUT ROOM 604 RECS	1P20A	35	C	36			
	OPEN WORKSTATIONS #1 DESKS (601)	1P20A	37	A	38			
	OPEN WORKSTATIONS #1 DESKS (601)	1P20A	39	B	40			
	OPEN WORKSTATIONS #1 DESKS (601)	1P20A	41	C	42			
	OPEN WORKSTATIONS #1 DESKS (601)	1P20A	43	A	44			
	VFRS DEPUTY OFFICE 602 & 603	1P20A	45	B	46			
			47	C	48			
	HOUSE KEEPING RECS	1P20A	49	A	50			
			51	B	52			
	BREAKAREA612 DEDICATED COUNTER RECS	1P20A	53	C	54			
	BREAKAREA612 FRIDGE DEDICATED REC	1P20A	55	A	56			
	ACCESSIBLE SHOWER 610 RECS	1P20A	57	B	58			
	PRINT / COPY 609 DEDICATED REC	1P20A	59	C	60			
	PRINT / COPY 609 DEDICATED REC	1P20A	61	A	62			
3	BREAK AREA 612 - RANGE		63	B	64			
			65	C	66			
			67	A	68			
3	BREAK AREA 612 - DISHWASHER		69	B	70			
			71	C	72			
			73	A	74			
	WORKOUT ROOM 613 DEDICATED REC	1P20A	75	B	76			
	WORKOUT ROOM 613 DEDICATED REC	1P20A	77	C	78			
	BREAK AREA 612 TV REC	1P20A	79	A	80			
			81	B	82			
			83	C	84			

MECHANICAL EQUIPMENT										PANEL		CIRCUIT		UNIT		DISCONNECT		NOTES					
TAG	QTY	DESCRIPTION	LOCATION / AREA SERVED	TYPE	LOAD	UNIT	FLA	KVA INPUT	VOLT	PH	NAME	CCT. NO.	BRKR AMPS	BRKR POLES	NO. OF WIRES	WIRE SIZE (AWG, MIN.)	CO. SIZE (mmØ, MIN.)		Supplied Installed	Connected	Supplied Installed	Connected	
<b>NEW FANS</b>																							
TF-1	1	FAN	MEETING ROOM	N	146	W	1.2	0.146	120	1	SEE PANEL SCHEDULE	SEE PANEL SCHEDULE	15	1	2	#12	3/4	M	M	E	E	E	1
TF-2	1	FAN	IT CLOSET	N	19	W	0.2	0.019	120	1	SEE PANEL SCHEDULE	SEE PANEL SCHEDULE	15	1	2	#12	3/4	M	M	E	E	E	2
EF-1	1	FAN	BREAK ROOM	N	168.000	W	1.4	0.168	120	1	SEE PANEL SCHEDULE	SEE PANEL SCHEDULE	15	1	2	#12	3/4	M	M	E	E	E	

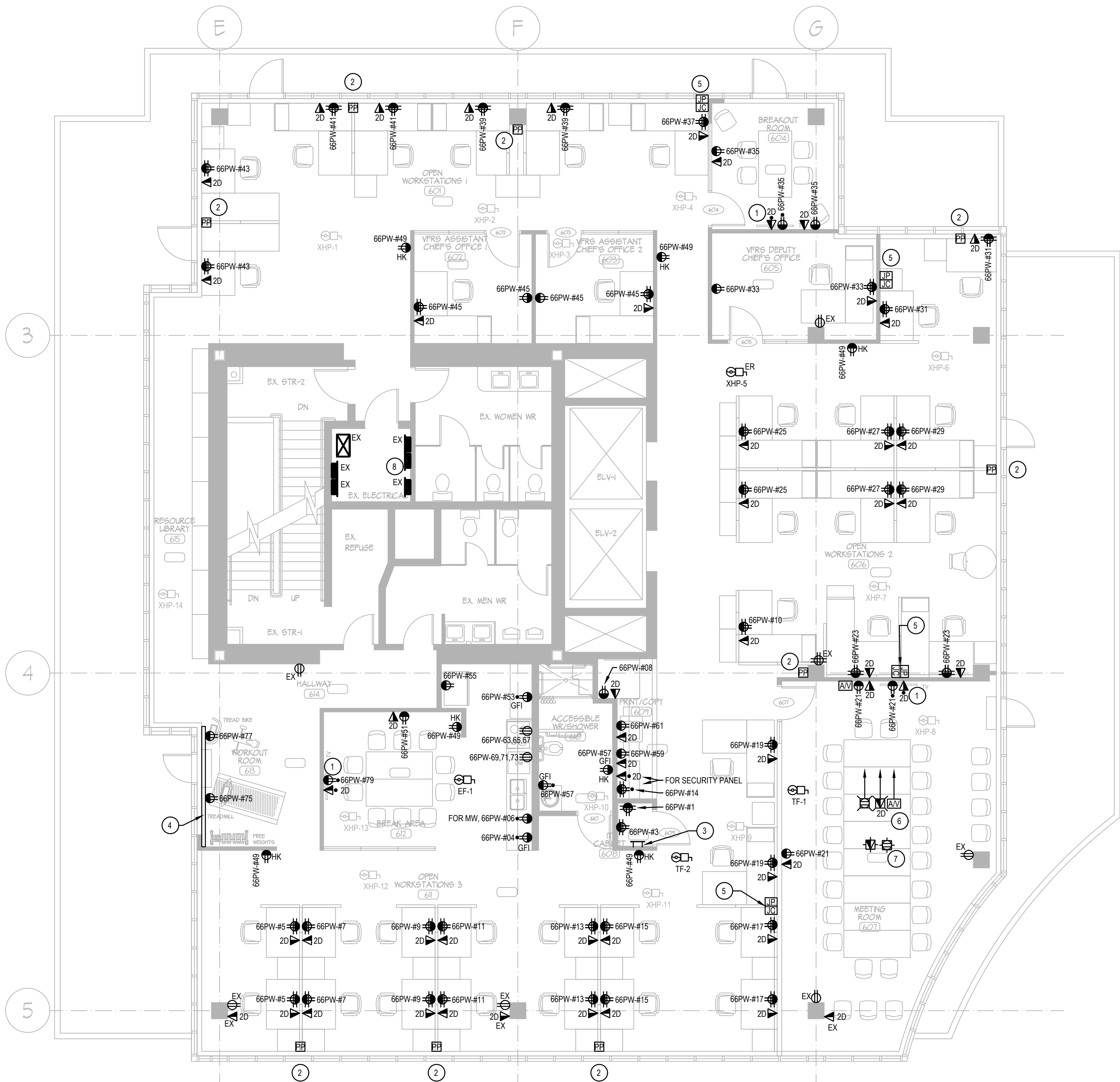
4 MECHANICAL EQUIPMENT LIST

- NOTES:**
- CONTROLLED BY TIMECLOCK
  - CONTROLLED BY REVERSE ACTING THERMOSTAT
  - 
  - 
  - 
  -

3 PANEL SCHEDULES

E003

CHERNOFF THOMPSON ARCHITECTS



1 NEW POWER & LOW TENSION PLAN  
E100 1/75

GENERAL NOTES

- A. FOR ALL WORK PERTAINING TO FIRE ALARM SYSTEM, CONTRACTOR MUST COORDINATE DIRECTLY WITH BASE BUILDING SUPERINTENDENT PRIOR TO STARTING WORK. CONTRACTOR MUST PROVIDE FIRE ALARM VERIFICATION FOR THE ENTIRE FLOOR TO BE DONE BY LANDLORD'S CONSULTANT. VERIFICATION COST TO BE CARRIED BY THIS CONTRACTOR.
- B. PROVIDE STICKERS AT ALL OUTLET FACE PLATES INDICATING CIRCUIT NUMBERS OR DATA DROP PORT.
- C. CONTRACTOR SHALL PROVIDE FIRE-STOPPING ASSEMBLIES TO ALL PENETRATIONS IN FIRE RATED SEPARATIONS.
- D. PROVIDE POWER AND DISCONNECT TO NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND TO UNITS' NAMEPLATES FOR EXACT POWER REQUIREMENTS. FOR HEAT PUMP/HPs THAT IS BEING RE-LOCATED, CONTRACTOR MUST PROVIDE POWER TO NEW LOCATIONS.
- E. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.
- F. ALL WIRING FOR POWER, DATA AND AV SHALL BE IN SEPARATE RACEWAYS.
- G. '2D' BY DATA OUTLETS INDICATE NUMBER OF DATA DROPS. PROVIDE 3/4" CONDUIT INSIDE WALL FOR EACH DATA OUTLET.

KEY NOTES

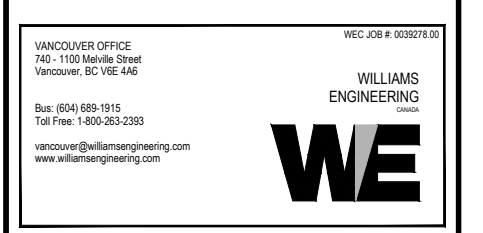
- 1. PROVIDE POWER AND DATA MOUNTED BEHIND THE TV.
- 2. PROVIDE PAC POLES TO RUN DOWN FROM CEILING TO FEED POWER AND DATA TO FURNITURE OUTLETS. FURNITURE OUTLETS ARE TO BE PROVIDED BY FURNITURE SUPPLIER.
- 2.1. CONTRACTOR TO PROVIDE POWER CIRCUITS TO BE CONNECTED TO FURNITURE WHIP AND MUST BE COMPLETED FOR FINAL CONNECTIONS AFTER FURNITURES ARE INSTALLED. CONTRACTOR TO ENSURE CIRCUIT BREAKERS AMPERAGE RATING TO MATCH FURNITURE OUTLET AMPERAGE RATING.
- 2.2. DATA WIRING TO PASS THROUGH PAC POLES AND TERMINATE AT FURNITURE DATA OUTLETS.
- 3. PROVIDE THE FOLLOWING FOR IT CABINET:
  - 3.1. GROUND BUS ON 1" STANDOFFS. COPPER, 1/4" THK x 4" HIGH x 12" WIDE. PROVIDE #6 BARE COPPER CONDUCTOR FROM BUILDING GROUNDING SYSTEM TO THIS BUS BAR. LOCATE BUS BAR @+12" AFF.
  - 3.2. 2x 20A RATED QUADPLEX WITH 20A DEDICATED CIRCUITS.
- 4. PROVIDE NEW WIRE MOLD AND OUTLETS TO SERVE POWER TO EXERCISE MACHINES.
- 5. PROVIDE THE FOLLOWING:
  - 5.1. JUNCTION BOX FOR FURNITURE POWER WHIP CONNECTION
  - 5.2. FEED-THRU JUNCTION BOX FOR DATA CABLES TO PASS THROUGH TO FEED THE DESKS.
  - 5.3. JUNCTION BOXES MUST BE RECESSED IN WALL AND CONCEALED.
- 6. FOR MEETING ROOM, PROVIDE THE FOLLOWING:
  - 6.1. FLOOR BOX: SURFACE MOUNTED UNDER THE TABLE TO HOUSE 1x 20A RATED QUADPLEX RECEPTACLE, 1x DATA OUTLET AND AV CONNECTIONS.
  - 6.2. POWER, DATA AND AV WIRINGS TO RUN SURFACE ON FLOOR TO TV WALL. PROVIDE LOW PROFILE WIREMOLD FOR PHYSICAL PROTECTION OF WIRES. PROVIDE CONDUITS INSIDE WALL TO HOUSE THE WIRES TO BE 1°C FOR DATA, 3/4°C FOR POWER, 2°C FOR AV.
  - 6.3. COORDINATE EXACT LOCATIONS ON SITE AND WITH A/V SUPPLIER.
- 7. PROVIDE CEILING MOUNTED POWER AND DATA OUTLETS FOR PROJECTOR. COORDINATE EXACT LOCATIONS ON SITE.
- 8. CONTRACTOR TO PROVIDE AND INSTALL NEW LIGHTING CONTROLS PANEL, C/W TIME CLOCK AND RELAYS. LABEL AS 'LVLC#1'. CONTRACTOR MAY CHOOSE TO RE-USE EXISTING RELAYS IF THEY ARE COMPATIBLE WITH NEW CONTROLLER. PERFORM A SITE VISIT TO ASSESS THE CONDITION AND TO DETERMINE WHAT COMPONENTS ARE CURRENTLY EXISTING. PROVIDE ALL NEW NECESSARY COMPONENTS INCLUDING BUT NOT LIMITED TO ENCLOSURE, TIME CLOCK, RELAY CONTROLLER, RELAYS, CONTACTS, LOW VOLTAGE WIRING, LIGHT SWITCHES, ETC. TO ACHIEVE A FULLY FUNCTIONAL AUTOMATIC LIGHTING CONTROL SYSTEM.

D	08/08/18	ISSUED FOR TENDER
C	08/02/18	ISSUED FOR BUILDING PERMIT
B	07/23/18	ISSUED FOR REVIEW & COORDINATION
A	07/20/18	ISSUED FOR COORDINATION
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**TENANT FIT-OUT FOR ECHELON CENTRE**  
6F-575 8TH AVE. WEST VANCOUVER

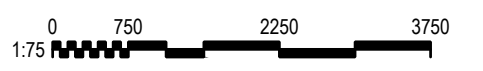
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SHEET TITLE  
**6TH FLOOR NEW POWER & LOW TENSION PLAN**

PROJECT No.	0030278.00
DRAWN	AG
CHECKED	MA
SCALE	AS NOTED
DATE	JULY 2018
PRINTED	AUGUST 2018

DRAWING No.  
**E100**



CHERNOFF THOMPSON ARCHITECTS



1 NEW LIGHTING PLAN  
E101 1/75

**GENERAL NOTES**

- A. FOR ALL WORK PERTAINING TO FIRE ALARM SYSTEM, CONTRACTOR MUST COORDINATE DIRECTLY WITH BASE BUILDING SUPERINTENDENT PRIOR TO STARTING WORK. CONTRACTOR MUST PROVIDE FIRE ALARM VERIFICATION FOR THE ENTIRE FLOOR TO BE DONE BY LANDLORD'S CONSULTANT. VERIFICATION COST TO BE CARRIED BY THIS CONTRACTOR.
- B. CONTRACTOR TO RE-USE EMERGENCY CIRCUITS FOR EXIT SIGNS AND EMERGENCY LIGHTS.
- C. CONTRACTOR TO PROVIDE NEW EXIT SIGNS AS SHOWN ON LAYOUT. EXIT SIGNS TO BE LED GREEN RUNNING MAN PICTOGRAM, SELF-POWERED FOR 120 MINUTES, EQUIVALENT TO LUMACELL "LA" SERIES. RE-USE EXISTING EXIT SIGN CIRCUITS AND EXTEND TO NEW LOCATIONS. CONTRACTOR TO DETERMINE VOLTAGE USED FOR EXIT SIGN CIRCUIT(S) AND ENSURE NEW DEVICES MATCH THE VOLTAGE.
- D. AS STATED ON THE POWER LAYOUT, CONTRACTOR TO PROVIDE NEW LIGHTING CONTROLS PANEL C/W TIME CLOCK, RELAYS AND CONTACTS. LABEL CONTROL PANEL AS "LVLCF1". THESE LIGHTS TO AUTOMATICALLY TURN "ON" AT THE START OF TIME CLOCK PROGRAMMED HOURS AND TO AUTOMATICALLY TURN "OFF" AT THE END OF PROGRAMMED HOURS. COORDINATE HOURS TO BE USED FOR PROGRAMMING DIRECTLY WITH CLIENT.
- E. UNLESS NOTED OTHERWISE, ALL LIGHT FIXTURES MUST BE WIRED TO BE TIED TO THE NEW LIGHTING CONTROLS SYSTEMS. CONTRACTOR TO RE-WIRE LIGHTS AS NEEDED.
  - a. ALL LIGHTS SHOWN ON NEW LIGHTING PLAN LOCATED INSIDE ENCLOSED ROOMS TO BE RE-WIRED SUCH THAT THESE LIGHT FIXTURES ARE CONTROLLED BY LOCAL OCCUPANCY SENSORS. ALL LUMINAIRES CONTROLLED BY LOCAL OCCUPANCY SENSORS MUST NOT BE TIED TO BASE BUILDING LIGHTING CONTROLS SYSTEM.
  - b. CONTRACTOR TO PROVIDE EMERGENCY LIGHTING LAYOUT AS SHOWN ON PLAN. RE-WIRE EXISTING EMERGENCY LIGHTING CIRCUITS TO ACHIEVE LAYOUT SHOWN. THESE LIGHTS TO SERVE AS NIGHT LIGHTS AND EMERGENCY LIGHTING THEREFORE MUST NOT BE PART OF SWITCHING.
- F. CONTRACTOR TO VERIFY VOLTAGE OF EXISTING LUMINAIRES. ALL NEW OCCUPANCY SENSORS, LIGHT SWITCHES, DIMMERS TO MATCH VOLTAGE RATING OF LUMINAIRES.
- G. CONTRACTOR MUST HIRE AND DIRECTLY INTERFACE WITH LIGHTING CONTROLS MANUFACTURER. PROVIDE ALL NECESSARY COMPONENTS, DEVICES, WIRING, PROGRAMMING FOR A FULLY FUNCTIONAL LIGHTING CONTROLS SYSTEMS.
- H. CONTRACTOR SHALL PROVIDE AND PAY FOR COMMISSIONING AND PROGRAMMING OF TIME CLOCK AND LIGHTING CONTROLS DEVICES. COORDINATE DIRECTLY WITH CLIENT FOR HOURS TO BE USED FOR TIME CLOCK FUNCTION. CONTRACTOR MUST CARRY THE COST OF INDEPENDENT THIRD PARTY TO PERFORM THE COMMISSIONING. SUBMIT COMMISSIONING REPORT TO THE ELECTRICAL CONSULTANT UPON COMPLETION.

**KEY NOTES**

- 1. CONTRACTOR TO PROVIDE CEILING MOUNTED OR WALL MOUNTED OCCUPANCY SENSORS AS SHOWN ON LAYOUT. OCCUPANCY SENSORS TO BE DUAL TECHNOLOGY (INFRARED & MICROPHONICS / ULTRASONIC). SENSORS TO AUTOMATICALLY TURN "ON" UPON OCCUPANCY AND MUST AUTOMATICALLY TURN "OFF" WHEN 30 MINUTES OF VACANCY IS DETECTED. SHOWN LOCAL OCCUPANCY SENSOR(S) AND LIGHT SWITCH MUST BE TIED TOGETHER TO CONTROL ROOM LIGHTS.
- 2. CONTRACTOR TO PROVIDE NEW MASTER SWITCH (REPLACE EXISTING SWITCH). THIS SWITCH MUST FUNCTION AS AN OVERRIDE SWITCH TO TIME CLOCK TO ALLOW OCCUPANTS TO TURN LIGHTS "ON" OUTSIDE OF PROGRAMMED HOURS. REFER TO GENERAL NOTES ABOVE FOR MORE LIGHTING INSTRUCTIONS.
- 3. CONTRACTOR TO PROVIDE NEW 4" LED DOWN LIGHT FOR SHOWER TO BE EQUIVALENT TO SENSO LATONA 1, WET RATED, 1000 LUMENS, 10 WATTS, CRI 80+, 2 STEP MACADAM ELLIPSE, 3500K COLOUR TEMP, TO BE MOUNTED RECESSED IN DRYWALL CEILING.

D 08/08/18 ISSUED FOR TENDER  
 C 08/02/18 ISSUED FOR BUILDING PERMIT  
 B 07/23/18 ISSUED FOR REVIEW & COORDINATION  
 A 07/20/18 ISSUED FOR COORDINATION  
 No. DATE REVISION (dd/mm/yy)

110-1281 WEST GEORGIA, VANCOUVER, B.C. V6E 3J5  
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**PROJECT TITLE**  
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 FOR ECHELON  
 CENTRE  
 6F-575 8TH AVE. WEST  
 VANCOUVER

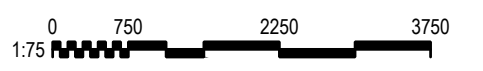
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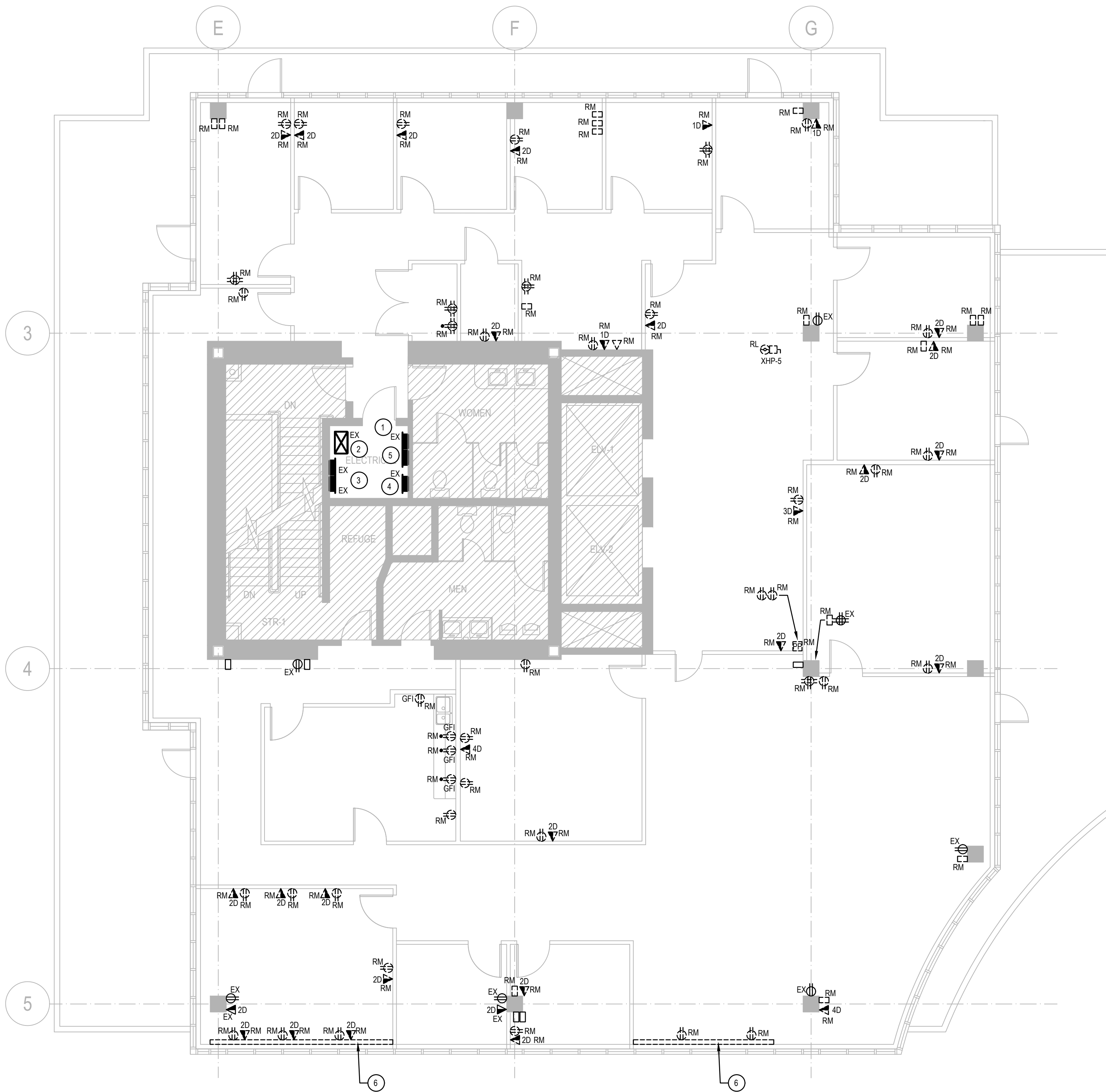
**SHEET TITLE**  
 6TH FLOOR  
 NEW LIGHTING  
 & FIRE ALARM  
 PLAN

PROJECT No.	0330278.00
DRAWN	AG
CHECKED	MA
SCALE	AS NOTED
DATE	JULY 2018
PRINTED	AUGUST 2018

DRAWING No.  
**E101**



CHERNOFF THOMPSON ARCHITECTS



1 DEMOLITION POWER & LOW TENSION PLAN  
E200 1/75

**GENERAL NOTES**

- A. CONTRACTOR MUST PERFORM A SITE VISIT AND BASE THE COUNT OF LUMINAIRES, OUTLETS, WIRING AND DEVICES TO BE REMOVED OR TO BE RE-LOCATED FROM THE SITE VISIT. INFORMATION SHOWN ON THESE LAYOUTS ARE ESTIMATED ONLY AND MAY NOT INCLUDE ALL EXISTING CONDITION.
- B. ALL DEMOLITION WORK MUST BE DONE AFTER HOURS UNLESS OTHERWISE PRE-APPROVED BY THE LANDLORD.
- C. FOR ALL WORK PERTAINING TO FIRE ALARM SYSTEM, CONTRACTOR MUST COORDINATE DIRECTLY WITH BASE BUILDING SUPERINTENDENT PRIOR TO STARTING WORK.
- D. NO ELECTRICAL CIRCUITS, FANS OR PUMPS ARE TO BE TURNED OFF WITHOUT PRIOR PERMISSION OF THE BASE BUILDING SUPERINTENDENT. CONTRACTOR MUST COORDINATE DIRECTLY PRIOR TO STARTING WORK.
- E. REFER TO MECHANICAL DRAWINGS TO DETERMINE WHICH MECHANICAL UNITS ARE TO REMAIN, TO BE RE-LOCATED OR TO BE REMOVED. ASSOCIATED ELECTRICAL POWER AND WIRING TO BE REMOVED OR RE-LOCATED ACCORDINGLY.
- F. UNLESS NOTED OTHERWISE, WHERE INDICATED AS 'RM' ON LAYOUT, CONTRACTOR TO REMOVE INDICATED EXISTING LUMINAIRES, OUTLETS, JUNCTION BOXES AND DEVICES THAT WILL NOT BE RE-USED. ASSOCIATED WIRING AND CONDUIT TO BE REMOVED BACK TO SOURCE. FIRE-STOP ALL OPENINGS ON FIRE RATED SEPARATIONS.
- G. EXISTING CEILING ZONE JUNCTION BOX SYSTEM TO REMAIN TO BE RE-USED.
- H. CONTRACTOR MAY RE-USE CIRCUITS OF OUTLETS BEING REMOVED IF EXISTING LOCATIONS ARE IN CLOSE PROXIMITY OF NEW OUTLETS SHOWN ON THE NEW POWER LAYOUT.

**KEY NOTES**

- 1. APPROX. LOCATION OF EXISTING PANEL 'L6PW', 600/347V, 42CCTS.
- 2. APPROX. LOCATION OF EXISTING 45KVA TRANSFORMER
- 3. APPROX. LOCATION OF EXISTING PANEL 'PP6W', 225A, 208/120V, 84CCTS.
- 4. APPROX. LOCATION OF EXISTING PANEL 'M6W', 225A, 208/120V, 60 CCTS.
- 5. APPROX. LOCATION OF EXISTING LIGHTING CONTROLS RELAY PANEL.
- 6. EXISTING WIREMOLD, OUTLETS AND WIRING TO BE REMOVED.

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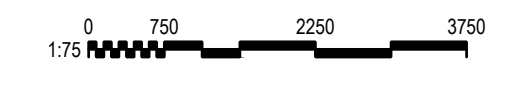
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**SHEET TITLE**  
**6TH FLOOR DEMOLITION POWER & LOW TENSION PLAN**

PROJECT No.	0030278.00
DRAWN	AG
CHECKED	MA
SCALE	AS NOTED
DATE	JULY 2018
PRINTED	AUGUST 2018

DRAWING No.  
**E200**



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**GENERAL NOTES**

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- F. CONTRACTOR TO RE-USE EMERGENCY CIRCUITS FOR EXIT SIGNS AND EMERGENCY LIGHTS.
- G. CONTRACTOR TO RE-LOCATE EXISTING LIGHT FIXTURES AS INDICATED TO ACCOMMODATE NEW WALL PARTITION LAYOUT. LIGHTS LABELED AS 'RL' TO BE RE-LOCATED. REFER TO NEW LIGHTING LAYOUT FOR NEW LOCATIONS.
- H. CONTRACTOR TO REMOVE ALL EXISTING EXIT SIGNS TO BE REPLACED BY NEW GREEN RUNNING MAN TYPE EXIT SIGNS. REFER TO NEW LIGHTING LAYOUT FOR LOCATIONS AND SPECIFICATIONS OF NEW EXIT SIGNS. EXTEND EXISTING EMERGENCY CIRCUITS TO NEW LOCATIONS.

**KEY NOTES** ⓪

- 1. EXISTING FIRE ALARM SPEAKER(S) TO BE RE-LOCATED TO NEW LOCATION AS SHOWN. REFER TO NEW LIGHTING PLAN FOR NEW LOCATIONS.

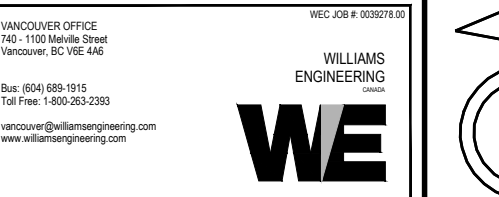
1 DEMOLITION LIGHTING PLAN  
E201 1/75

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**SHEET TITLE**  
6TH FLOOR  
DEMOLITION  
LIGHTING PLAN

PROJECT No. 0030278.00  
DRAWN AG  
CHECKED MA  
SCALE AS NOTED  
DATE JULY 2018  
PRINTED AUGUST 2018

DRAWING No.  
E201



CHERNOFF THOMPSON ARCHITECTS