

| LIGHTING                                                                                            |                                                                                |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                                                                                     | LINEAR LUMINAIRE - RECESSED                                                    |
|                                                                                                     | HATCHING DENOTES EMERGENCY / NIGHT LIGHTING (TYP.)                             |
|                                                                                                     | LINEAR LUMINAIRE - SURFACE MOUNTED                                             |
|                                                                                                     | LINEAR LUMINAIRE - SUSPENDED                                                   |
|                                                                                                     | STRIP LUMINAIRE - CEILING MOUNTED                                              |
|                                                                                                     | STRIP LUMINAIRE - WALL MOUNTED                                                 |
|                                                                                                     | CEILING MOUNTED LUMINAIRE: NORMAL / NIGHT LIGHTING                             |
|                                                                                                     | WALL MOUNTED LUMINAIRE: NORMAL / NIGHT LIGHTING                                |
|                                                                                                     | DOME LIGHT                                                                     |
|                                                                                                     | DOUBLE SURFACE MOUNTED EMERGENCY LIGHTING - REMOTE HEADS                       |
|                                                                                                     | CEILING MOUNTED EMERGENCY LIGHTING REMOTE HEAD                                 |
|                                                                                                     | EMERGENCY LIGHTING BATTERY UNIT C/W DUPLEX RECEPTACLE AND DOUBLE REMOTE HEADS. |
| EXIT LIGHTING: SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN. DIRECTIONAL ARROWS AS INDICATED. |                                                                                |
|                                                                                                     | WALL MOUNTED DOUBLE FACED EXIT LIGHT                                           |
|                                                                                                     | WALL MOUNTED SINGLE FACED EXIT LIGHT                                           |
|                                                                                                     | CEILING MOUNTED DOUBLE FACED EXIT LIGHT                                        |
|                                                                                                     | CEILING MOUNTED SINGLE FACED EXIT LIGHT                                        |

| SECURITY AND ACCESS SYSTEMS                                                                                                                            |                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                                                                                                                                                        | SECURITY SYSTEM CONTROL PANEL |
|                                                                                                                                                        | KEY PAD                       |
|                                                                                                                                                        | CARD READER                   |
|                                                                                                                                                        | DOOR CONTACT                  |
|                                                                                                                                                        | ELECTRIC STRIKE               |
|                                                                                                                                                        | MOTION DETECTOR               |
|                                                                                                                                                        | GLASS BREAK DETECTOR          |
|                                                                                                                                                        | ALARM SPEAKER                 |
|                                                                                                                                                        | CLOSED CIRCUIT CAMERA:        |
| "B" - DENOTES BOX ENCLOSURE "E" - DENOTES ELEVATOR CORNER MOUNT<br>"P" - DENOTES PEDESTAL MOUNT "PTZ" - DENOTES PAN TILT ZOOM<br>"W" - WEDGE ENCLOSURE |                               |
|                                                                                                                                                        | SECURITY SYSTEM MONITOR       |
|                                                                                                                                                        | KEY SWITCH                    |
|                                                                                                                                                        | PANIC ALARM                   |
|                                                                                                                                                        | PANIC BUTTON                  |
|                                                                                                                                                        | PUSH TO LOCK BUTTON           |
|                                                                                                                                                        | PUSH BUTTON                   |

| GENERAL POWER |                                                                                  |
|---------------|----------------------------------------------------------------------------------|
|               | 15A, DUPLEX RECEPTACLE / WITH USB                                                |
|               | (5-20R) T-SLOT DUPLEX RECEPTACLE                                                 |
|               | 15A, DUPLEX RECEPTACLE / WITH USB - ABOVE COUNTER                                |
|               | 15A, DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - ABOVE COUNTER                 |
|               | (5-20R) T-SLOT DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE                       |
|               | (5-20R) T-SLOT DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - ABOVE COUNTER       |
|               | 15A, DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - ABOVE COUNTER      |
|               | (5-20R) T-SLOT DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER            |
|               | 15A, U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED                            |
|               | 15A, DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH FLOOR MOUNTED           |
|               | (5-20R) T-SLOT DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH FLOOR MOUNTED |
|               | 15A, DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED                                   |
|               | (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED                |

| LIGHTING CONTROL |                                                           |
|------------------|-----------------------------------------------------------|
|                  | ONE, TWO, THREE AND FOUR GANG SINGLE POLE TOGGLE SWITCHES |
|                  | 3-WAY SWITCH                                              |
|                  | 4-WAY SWITCH                                              |
|                  | DOOR LIGHT SWITCH                                         |
|                  | SWITCH MOUNTED OCCUPANCY SENSOR                           |
|                  | DIMMER SWITCH                                             |
|                  | CEILING MOUNTED OCCUPANCY SENSOR                          |
|                  | PHOTO ELECTRIC CONTROL                                    |
|                  | LOW VOLTAGE RELAY                                         |
|                  | LOW VOLTAGE RELAY PANEL                                   |
|                  | LED ANNUNCIATOR                                           |

| FIRE ALARM SYSTEM |                                                             |
|-------------------|-------------------------------------------------------------|
|                   | PULL STATION                                                |
|                   | FLUSH MOUNTED HORN - 'HS' DENOTES HORN STROBE COMBINATION   |
|                   | STROBE - WALL MOUNTED                                       |
|                   | AUTOMATIC FIXED TEMPERATURE HEAT DETECTOR - CEILING MOUNTED |
|                   | AUTOMATIC FIXED TEMPERATURE HEAT DETECTOR - WALL MOUNTED    |
|                   | SMOKE DETECTOR - CEILING MOUNTED                            |
|                   | SMOKE DETECTOR - WALL MOUNTED                               |
|                   | DUCT TYPE SMOKE DETECTOR WITH REMOTE ANNUNCIATION           |
|                   | MOTORIZED DAMPER BY MECHANICAL AND WIRED BY ELECTRICAL      |

| ELECTRIC HEATING |                                                                      |
|------------------|----------------------------------------------------------------------|
|                  | RECESS MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'FFH' AS INDICATED |

| EQUIPMENT CONNECTIONS AND CONTROLS |                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------|
|                                    | DIRECT CONNECTION - 120 OR 208V AS INDICATED                                             |
|                                    | DIRECT CONNECTION - 347 OR 600V AS INDICATED                                             |
|                                    | DIRECT CONNECTION C/W UNFUSED DISCONNECT SWITCH - 120 OR 208V AS INDICATED               |
|                                    | DIRECT CONNECTION - 347 OR 600V C/W UNFUSED DISCONNECT SWITCH AS INDICATED               |
|                                    | MOTOR CONNECTION C/W UNFUSED DISCONNECT SWITCH                                           |
|                                    | UNFUSED DISCONNECT SWITCH                                                                |
|                                    | HAND DRYER                                                                               |
|                                    | POWER ACTIVATED DOOR EXIT BUTTON SUPPLIED BY DOOR HARDWARE SUPPLIER, WIRED BY ELECTRICAL |
|                                    | RECESS MOUNTED ELECTRICAL PANEL                                                          |
|                                    | SURFACE MOUNTED ELECTRICAL PANEL                                                         |

| POWER DISTRIBUTION |                                                                   |
|--------------------|-------------------------------------------------------------------|
|                    | POWER TRANSFORMER                                                 |
|                    | DISCONNECT SWITCH                                                 |
|                    | MOLDED CASE CIRCUIT BREAKER                                       |
|                    | DRAW OUT AIR CIRCUIT BREAKER                                      |
|                    | FIXED AIR CIRCUIT BREAKER                                         |
|                    | FUSE                                                              |
|                    | INCOMING POWER INTERRUPTER SWITCH                                 |
|                    | KWHR METER                                                        |
|                    | DIGITAL METERING SYSTEM                                           |
|                    | AUTOMATIC TRANSFER SWITCH - 'BIP' DENOTES ISOLATION BYPASS SWITCH |

| COMMUNICATIONS |                                                        |
|----------------|--------------------------------------------------------|
|                | TELEVISION OUTLET - WALL MOUNTED                       |
|                | TELEPHONE OUTLET - WALL MOUNTED                        |
|                | TELEPHONE OUTLET - FLUSH FLOOR MOUNTED                 |
|                | DATA OUTLET - WALL MOUNTED                             |
|                | DATA OUTLET - FLUSH CEILING MOUNTED                    |
|                | DATA OUTLET - FLUSH FLOOR MOUNTED                      |
|                | COMBINATION VOICE/ DATA OUTLET - WALL MOUNTED          |
|                | COMBINATION VOICE/ DATA OUTLET - FLUSH CEILING MOUNTED |
|                | COMBINATION VOICE/ DATA OUTLET - FLUSH FLOOR MOUNTED   |
|                | SIGNAL PUSHBUTTON                                      |
|                | INTERCOM MASTER STATION                                |
|                | INTERCOM STATION                                       |

| MISCELLANEOUS |                                                 |
|---------------|-------------------------------------------------|
|               | JUNCTION BOX                                    |
|               | INDICATES EXISTING DEVICE TO REMAIN             |
|               | INDICATES EXISTING DEVICE TO BE MOVED           |
|               | INDICATES EXISTING DEVICE IN RELOCATED POSITION |
|               | INDICATES EXISTING DEVICE TO BE DEMOLISHED      |
|               | INDICATES CONDUIT                               |

| ELEMENT TAGS LEGEND |                                                    |
|---------------------|----------------------------------------------------|
|                     | CIRCUIT OR BATTERY PACK                            |
|                     | REFERENCE TAG (EXISTING, RELOCATE, DEMO, NEW, ETC. |
|                     | TYPE TAG                                           |

| ABBREVIATIONS |                                                           |
|---------------|-----------------------------------------------------------|
| A             | - AMPERES                                                 |
| AC            | - MOUNTED ABOVE CEILING                                   |
| AFF           | - ABOVE FINISHED FLOOR                                    |
| AFG           | - ABOVE FINISHED GRADE                                    |
| BFC           | - BELOW FINISHED CEILING                                  |
| BFG           | - BELOW FINISHED GRADE                                    |
| BB            | - BASEBOARD HEATER                                        |
| BRK           | - BREAKER                                                 |
| BU            | - BATTERY UNIT                                            |
| C             | - CONDUCTOR                                               |
| CDP           | - CENTRAL DISTRIBUTION PANEL                              |
| CFM           | - COFFEE MACHINE                                          |
| CLG           | - CEILING MOUNTED                                         |
| CNDT          | - CONDUIT                                                 |
| CO            | - CARBON MONOXIDE                                         |
| CP            | - COPY MACHINE                                            |
| CS            | - MOUNTED IN CRAWLSPACE                                   |
| CSTE          | - CUSTOMER SERVICE TERMINATION ENCLOSURE                  |
| CT            | - COMPUTER TERMINAL                                       |
| CTP           | - COMPUTER TERMINAL PRINTER                               |
| D             | - DELETE                                                  |
| DB            | - DIRECT BURIED                                           |
| DHWH          | - DOMESTIC HOT WATER HEATER                               |
| DHWT          | - DOMESTIC HOT WATER TANK DIV. 15 PROVIDED BY DIVISION 15 |
| DO            | - DOOR OPERATOR                                           |
| DP            | - DISTRIBUTION PANEL                                      |
| DT            | - DUST TIGHT                                              |
| E             | - EXISTING                                                |
| EC            | - EMPTY CONDUIT                                           |
| EF            | - EXHAUST FAN                                             |
| EH            | - ELECTRIC HEATER                                         |
| F             | - FLUSH FLOOR MOUNTED                                     |
| FA            | - FIRE ALARM                                              |
| FC            | - FAN COIL (WHEN USED WITH MOTOR SYMBOL)                  |
| FC            | - FOOT CANDLE                                             |
| FF            | - FORCE FLOW                                              |
| FM            | - FLOOR MOUNTED                                           |
| FR            | - FRIDGE                                                  |
| FS            | - DEVICE MOUNTED IN RAISED FLOOR SPACE                    |
| FU            | - FUSE                                                    |
| FX            | - FAX MACHINE                                             |
| FZ            | - FREEZER                                                 |
| GFI           | - GROUND FAULT CIRCUIT INTERRUPTER                        |
| GW            | - GROUND WIRE                                             |
| H             | - HORIZONTAL                                              |
| HP            | - HORSEPOWER                                              |
| IG            | - ISOLATED GROUND                                         |
| INT           | - INTERLOCK                                               |
| KVA           | - KILO VOLT-AMPERES                                       |
| KW            | - KILOWATTS                                               |
| LOB           | - LOCK-ON TYPE BREAKER                                    |
| LP            | - LIGHTING PANEL                                          |
| LTG           | - LIGHTING                                                |
| LV            | - LOW VOLTAGE                                             |
| LVR           | - LOW VOLTAGE RELAY                                       |
| MC            | - METERING CENTRE                                         |
| MCC           | - MOTOR CONTROL CENTRE                                    |
| MCD           | - MULTI CONDUCTOR                                         |
| MD            | - MAIN DISTRIBUTION                                       |
| MFC           | - MULTI-FUNCTION COPIER                                   |
| MIC           | - MICROWAVE                                               |
| MP            | - MOISTURE PROOF                                          |
| MTD           | - MOUNTED                                                 |
| MTG           | - MOUNTING                                                |
| MV            | - EXISTING TO BE MOVED                                    |
| MW            | - MOUNTED IN MILLWORK                                     |
| NC            | - NORMALLY CLOSED                                         |
| NIC           | - NOT IN CONTRACT                                         |
| NL            | - NIGHT LIGHT                                             |
| NO            | - NORMALLY OPEN                                           |
| NTS           | - NOT TO SCALE                                            |
| P             | - PUMP (WHEN USED WITH MOTOR SYMBOL)                      |
| PA            | - PUBLIC ADDRESS                                          |
| PDU           | - POWER DISTRIBUTION UNIT                                 |
| PH            | - PHASE PANEL                                             |
| PNL           | - PP POWER PANEL                                          |
| PR            | - PRINTER                                                 |
| R             | - RELOCATE(D)                                             |
| RP            | - RECEPTACLE PANEL                                        |
| SWBRD         | - SWITCHBOARD                                             |
| TEL           | - TELEPHONE                                               |
| TYP           | - TYPICAL                                                 |
| UC            | - UNDER COUNTER                                           |
| V             | - VOLT                                                    |
| W             | - WALL MOUNTED                                            |
| WG            | - WIRE GUARD                                              |
| WL            | - WET LOCATION                                            |
| WP            | - WEATHERPROOF                                            |
| WTP           | - WATERPROOF                                              |

| DRAWING LIST |                                                                   |
|--------------|-------------------------------------------------------------------|
| E1.0         | - DRAWING LIST AND ELECTRICAL SYMBOL LEGEND                       |
| E1.1         | - SITE PLAN ELECTRICAL                                            |
| ED2.0        | - BASEMENT ELECTRICAL DEMOLITION                                  |
| ED2.1        | - MAIN FLOOR & MAIN FLOOR MEZZANINE ELECTRICAL DEMOLITION         |
| ED2.2        | - SECOND FLOOR & SECOND FLOOR MEZZANINE ELECTRICAL DEMOLITION     |
| EL2.0        | - BASEMENT LIGHTING RENOVATION                                    |
| EL2.1        | - MAIN FLOOR & MAIN FLOOR MEZZANINE LIGHTING RENOVATION           |
| EL2.2        | - SECOND FLOOR & SECOND FLOOR MEZZANINE LIGHTING RENOVATION       |
| EP2.0        | - BASEMENT POWER & SYSTEM RENOVATION                              |
| EP2.1        | - MAIN FLOOR & MAIN FLOOR MEZZANINE POWER & SYSTEM RENOVATION     |
| EP2.2        | - SECOND FLOOR & SECOND FLOOR MEZZANINE POWER & SYSTEM RENOVATION |
| EP2.3        | - ROOF ELECTRICAL RENOVATION                                      |
| ES2.0        | - BASEMENT SECURITY RENOVATION                                    |
| ES2.1        | - MAIN FLOOR & MAIN FLOOR MEZZANINE SECURITY RENOVATION           |
| ES2.2        | - SECOND FLOOR & SECOND FLOOR MEZZANINE SECURITY RENOVATION       |
| E4.0         | - ELECTRICAL DEMOLITION & RENOVATION SINGLE LINE DIAGRAM          |
| E5.0         | - ELECTRICAL SCHEDULES                                            |
| E5.1         | - ELECTRICAL SCHEDULE                                             |
| E5.2         | - MOTOR LIST                                                      |
| E5.3         | - MOTOR LIST                                                      |
| E6.0         | - DRAWING DETAILS                                                 |
| E6.1         | - DRAWING DETAILS                                                 |

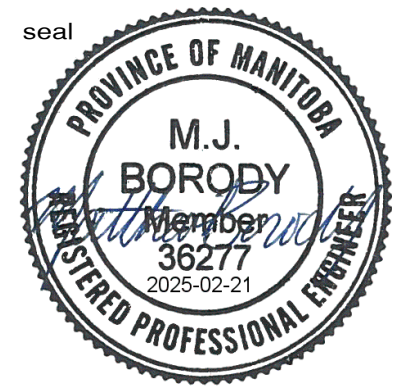
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**MJB**  
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**FEB 21 2025**

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260 - 8th STREET, BRANDON, MANITOBA R7A 3K3

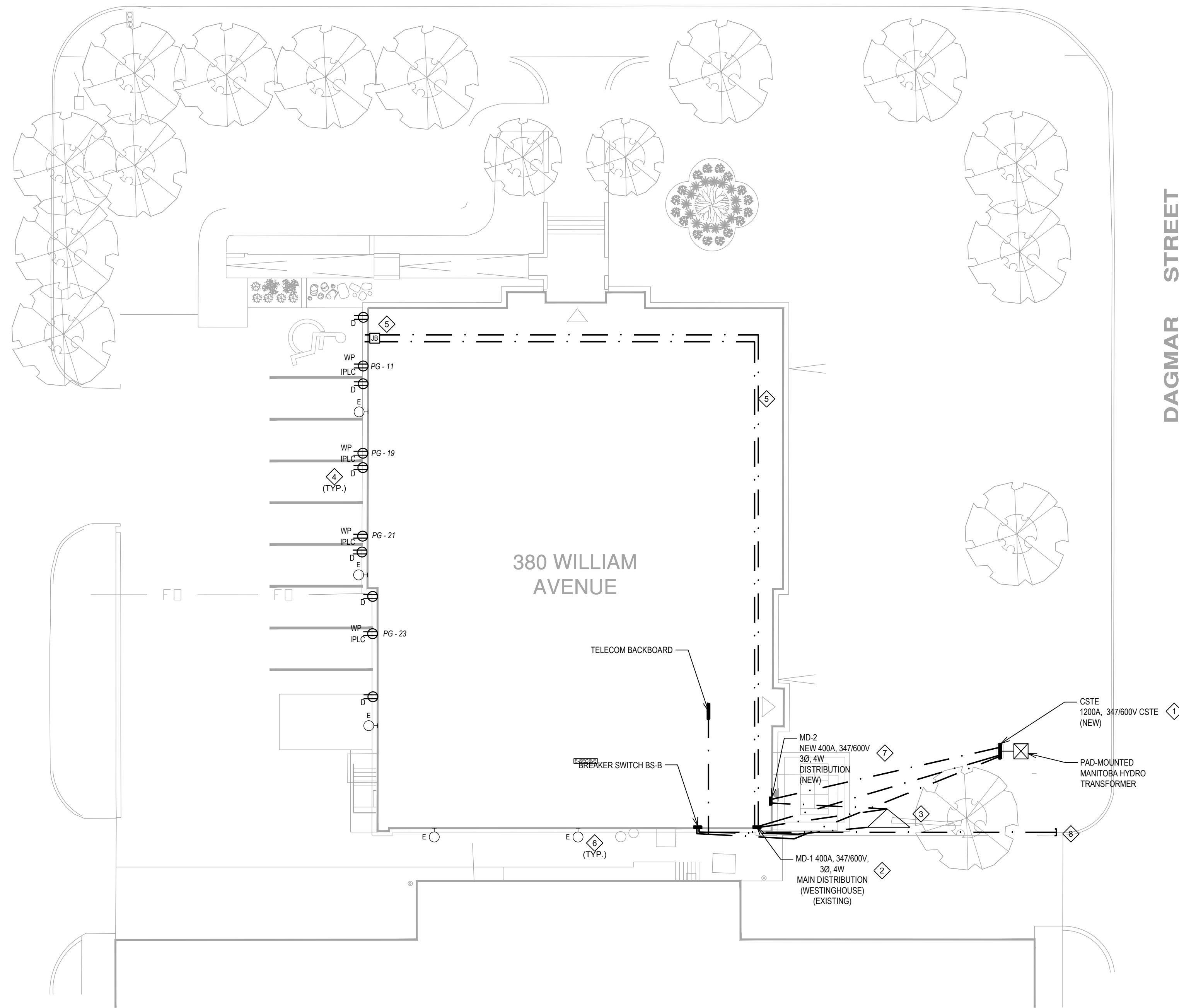
**CITY ARCHIVES BUILDING  
REDEVELOPMENT**  
380 WILLIAM AVENUE - WINNIPEG, MANITOBA

project  
**2624**  
sheet no.  
**E1.0**

ELLEN STREET

WILLIAM AVENUE

DAGMAR STREET

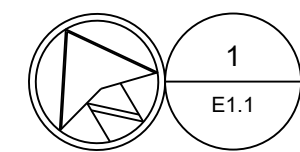


GENERAL NOTES:

1. EXISTING RETAINED EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION.

NOTES:

1. PROVIDE NEW 1200A, 347/600V, 3-PHASE, 4-WIRE, CSTE MOUNTED ON CONCRETE PAD C/W INTEGRAL BI-DIRECTIONAL METERING. COORDINATE INSTALLATION OF METERING WITH MANITOBA HYDRO. CSTE SHALL BE LOCATED WITHIN 3M OF UTILITY SERVICE.
2. DISCONNECT AND REMOVE EXISTING FEEDER TO MD-1. CAP AND SEAL CONDUITS/CABLES BELOW GRADE WHERE SAME EXIST.
3. PROVIDE NEW GROUNDING ELECTRODES AT EXTERIOR OF BUILDING REFER TO DETAIL 2/E6.0. WIRE AND CONNECT NEW GROUND ELECTRODES TO EXISTING MD-1, NEW MD-2, BS-B AND GROUND BUS.
4. DISCONNECT AND REMOVE EXISTING PARKING RECEPTACLES AND ASSOCIATED CONDUIT. PROVIDE NEW CONDUIT AND IPLC RECEPTACLES. RETAIN AND REUSE EXISTING INTERIOR WIRING AND MODIFY EXISTING CIRCUIT(S) TO NEW RECEPTACLES AS REQUIRED.
5. PROVIDE TWO (2) 3" EMT CONDUITS C/W PULL WIRE AND PULL BOXES FROM MD-1 TO EXTERIOR OF BUILDING FOR FUTURE EV CHARGERS. TERMINATE CONDUITS IN 24x24x6 JUNCTION BOX.
6. EXISTING EXTERIOR LUMINAIRES SHALL REMAIN. EXTEND CIRCUIT(S) TO NEW PANEL AS SPECIFIED.
7. COORDINATE EXACT CONDUIT ROUTING W/ EXISTING U/G INFRASTRUCTURE IN AREA.
8. PROVIDE 3" PVC CONDUIT C/W PULL WIRE FROM TELECOM BACKBOARD TO PROPERTY LINE FOR NEW TELECOM ENTRANCE. COORDINATE EXACT LOCATION WITH ISP.



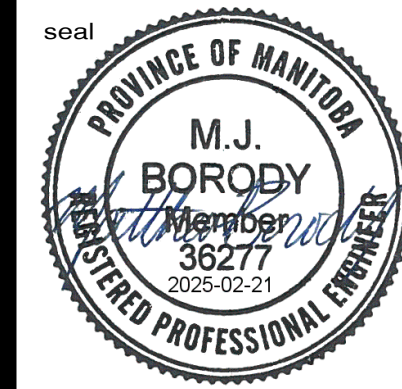
SITE PLAN ELECTRICAL

Scale: 1/16" = 1'-0"

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GEOSCIENTISTS  
MANITOBA  
Certificate of Authorization  
**MCW Consultants Ltd.**  
**No. 7183**

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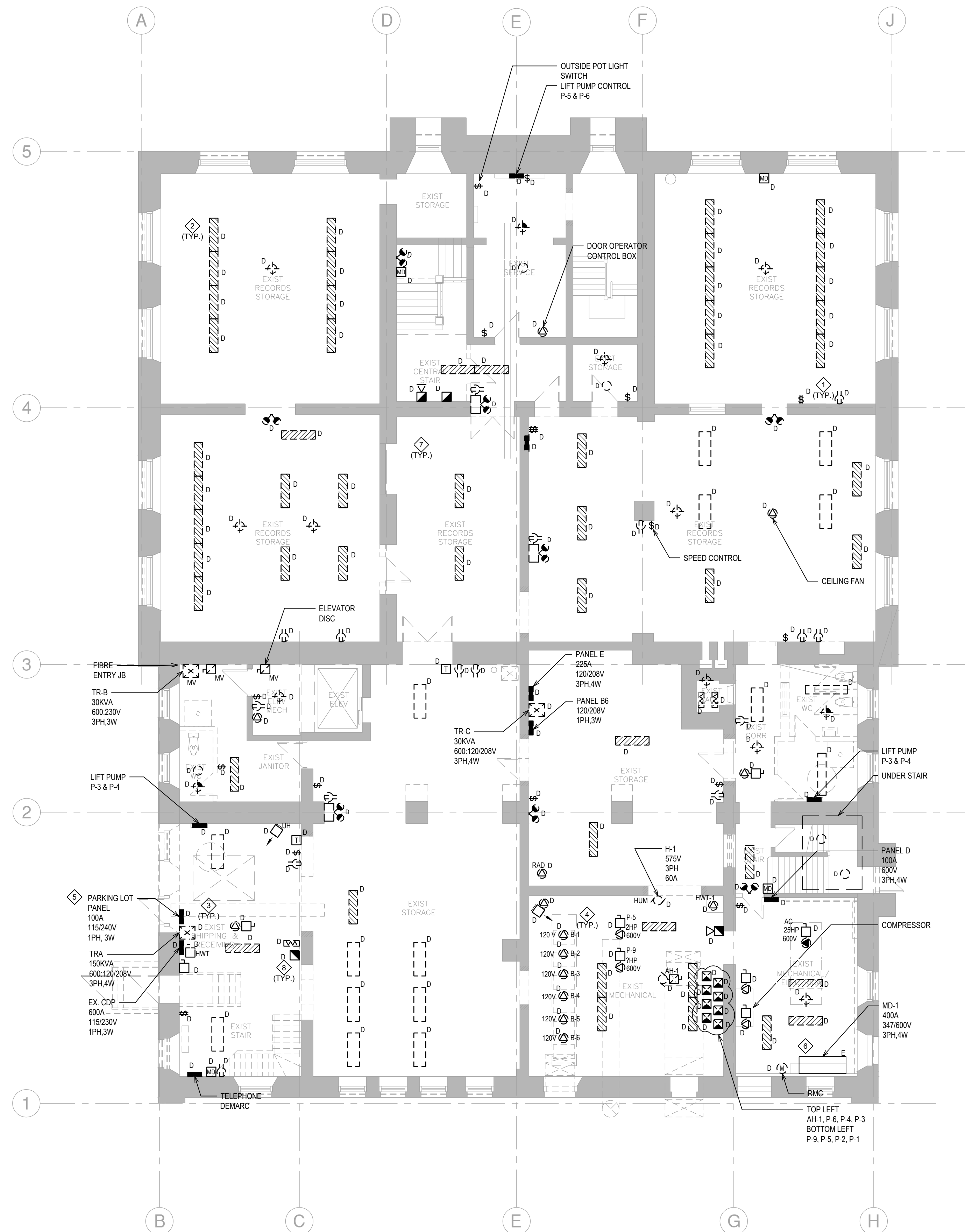


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**GENERAL NOTES:**

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**NOTES:**

- 1 DISCONNECT AND REMOVE EXISTING RECEPTACLES, WIRING DEVICES AND ASSOCIATED CONDUITS AND CABLING TO SOURCE.
- 2 DISCONNECT AND REMOVE EXISTING LUMINAIRES, EMERGENCY LIGHTING AND ASSOCIATED CABLING AND CONDUITS TO SOURCE.
- 3 DISCONNECT AND REMOVE EXISTING PANEL BOARDS, TRANSFORMERS AND ASSOCIATED CABLING AND CONDUIT TO SOURCE UNLESS NOTED OTHERWISE.
- 4 DISCONNECT MECHANICAL EQUIPMENT TO ACCOMMODATE REMOVAL BY OTHERS. REMOVE ASSOCIATED WIRING & CONDUIT TO SOURCE.
- 5 EXISTING MD-1 SHALL REMAIN PROTECTED DURING DEMOLITION.
- 6 RELOCATE EXISTING EXTERIOR LIGHTING & RECEPTACLE CIRCUITS TO NEW PANEL PG. REROUTE/EXTEND WIRING AS REQUIRED.
- 7 ALL REDUNDANT AND ABANDONED CABLING SHALL BE REMOVED FOR ALL SYSTEMS.
- 8 DISCONNECT & REMOVE FIRE ALARM, SECURITY & OTHER ANCILLARY DEVICES CW ALL ASSOCIATED WIRING & CONDUIT TO SOURCE.



1  
ED2.0

**BASEMENT FLOOR PLAN ELECTRICAL DEMOLITION**

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

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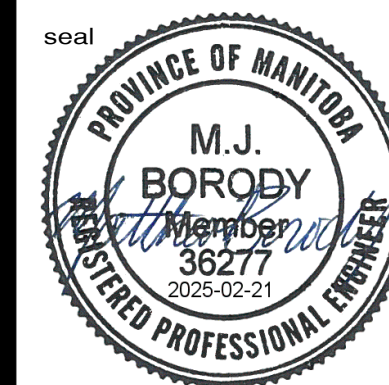


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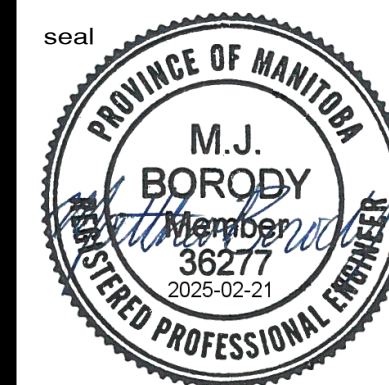
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- 1 DISCONNECT AND REMOVE EXISTING RECEPTACLES, WIRING DEVICES AND ASSOCIATED CONDUITS AND CABLE TO SOURCE.
- 2 DISCONNECT AND REMOVE EXISTING LUMINAIRES, EMERGENCY LIGHTING AND ASSOCIATED CABLEING AND CONDUITS TO SOURCE.
- 3 DISCONNECT AND REMOVE EXISTING PANEL BOARDS, TRANSFORMERS AND ASSOCIATED CABLEING AND CONDUIT TO SOURCE UNLESS NOTED OTHERWISE.
- 4 DISCONNECT MECHANICAL EQUIPMENT TO ACCOMMODATE REMOVAL BY OTHERS. REMOVE ASSOCIATED WIRING & CONDUIT TO SOURCE.
- 5 ALL REDUNDANT AND ABANDONED CABLEING SHALL BE REMOVED FOR ALL SYSTEMS.
- 6 DISCONNECT & REMOVE FIRE ALARM, SECURITY & OTHER ANCILLARY DEVICES C/W ALL ASSOCIATED WIRING & CONDUIT TO SOURCE.

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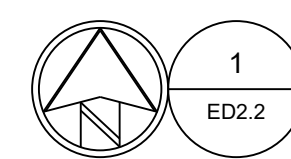
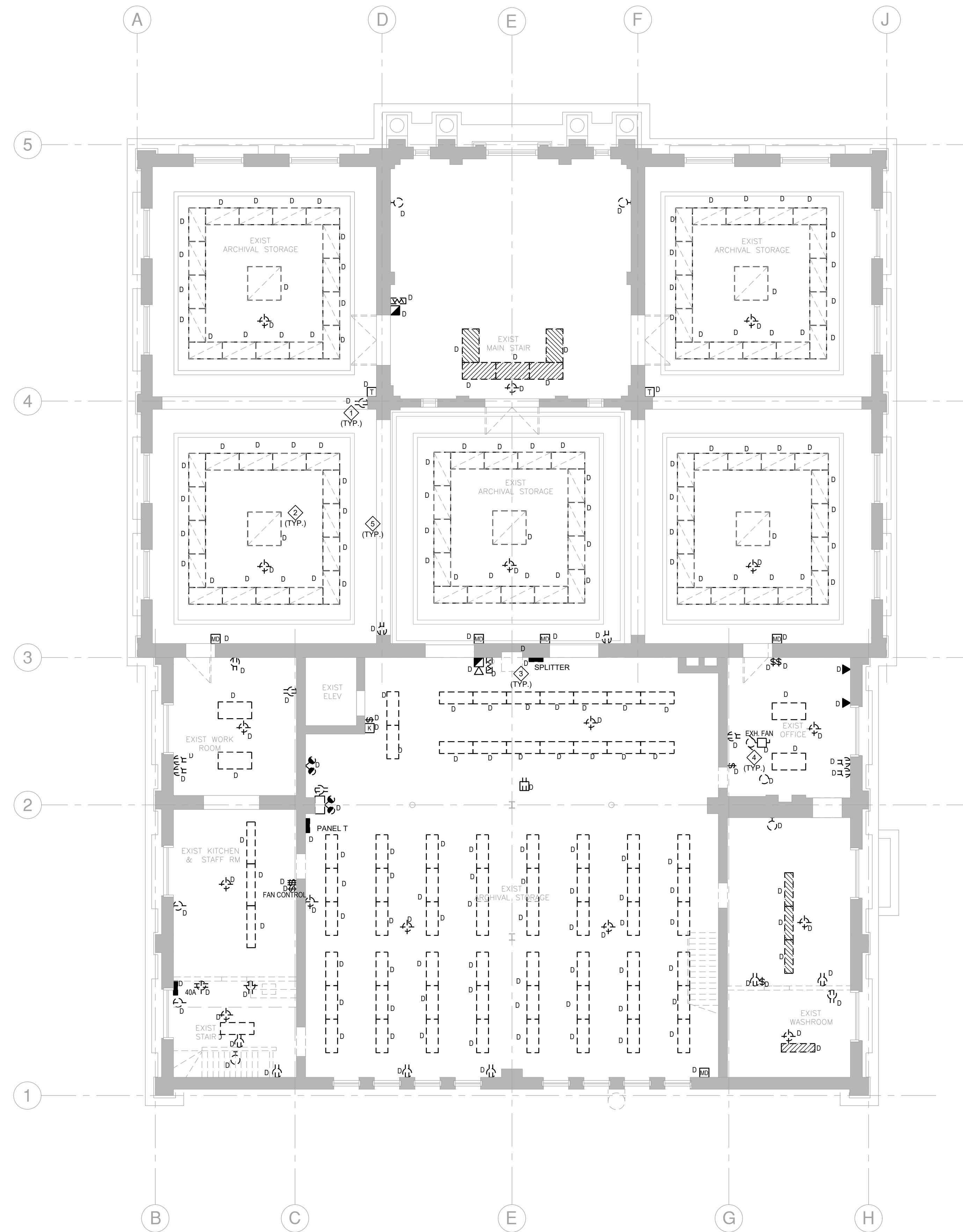
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## ED2.1



**SECOND FLOOR - ELECTRICAL DEMOLITION**

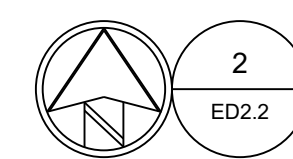
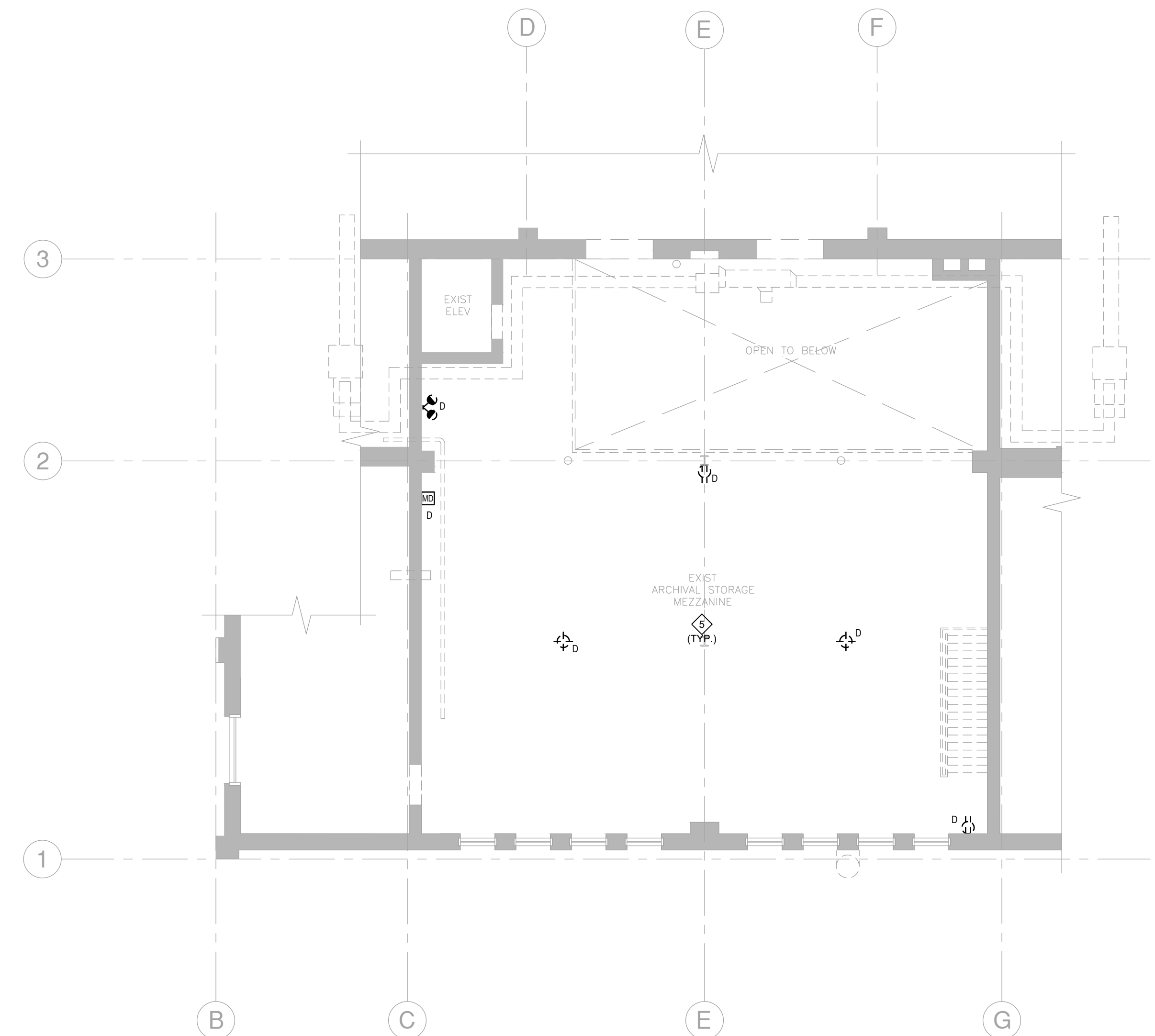
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THIS DRAWING IS FOR "REFERENCE ONLY" SHOWING EXISTING DEVICES TO BE DEMOLISHED/ RELOCATED. NOT ALL EXISTING DEVICES TO BE DEMOLISHED OR RELOCATED ARE NECESSARILY SHOWN. ELECTRICAL CONTRACTOR SHALL CONFIRM QUANTITY AND LOCATION ON SITE PRIOR TO TENDER CLOSE.

**NOTES:**

- 1 DISCONNECT AND REMOVE EXISTING RECEPTACLES, WIRING DEVICES AND ASSOCIATED CONDUITS AND CABLING TO SOURCE.
- 2 DISCONNECT AND REMOVE EXISTING LUMINAIRES, EMERGENCY LIGHTING AND ASSOCIATED CABLING AND CONDUITS TO SOURCE.
- 3 DISCONNECT AND REMOVE EXISTING PANEL BOARDS, TRANSFORMERS AND ASSOCIATED CABLING AND CONDUIT TO SOURCE UNLESS NOTED OTHERWISE.
- 4 RELOCATE EXISTING EXTERIOR LIGHTING & RECEPTACLE CIRCUITS TO NEW PANEL PG. REROUTE/EXTEND WIRING AS REQUIRED.
- 5 ALL REDUNDANT AND ABANDONED CABLING SHALL BE REMOVED FOR ALL SYSTEMS.



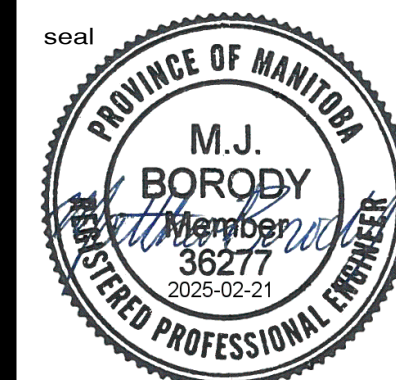
**SECOND FLOOR MEZZANINE - ELECTRICAL DEMOLITION**

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

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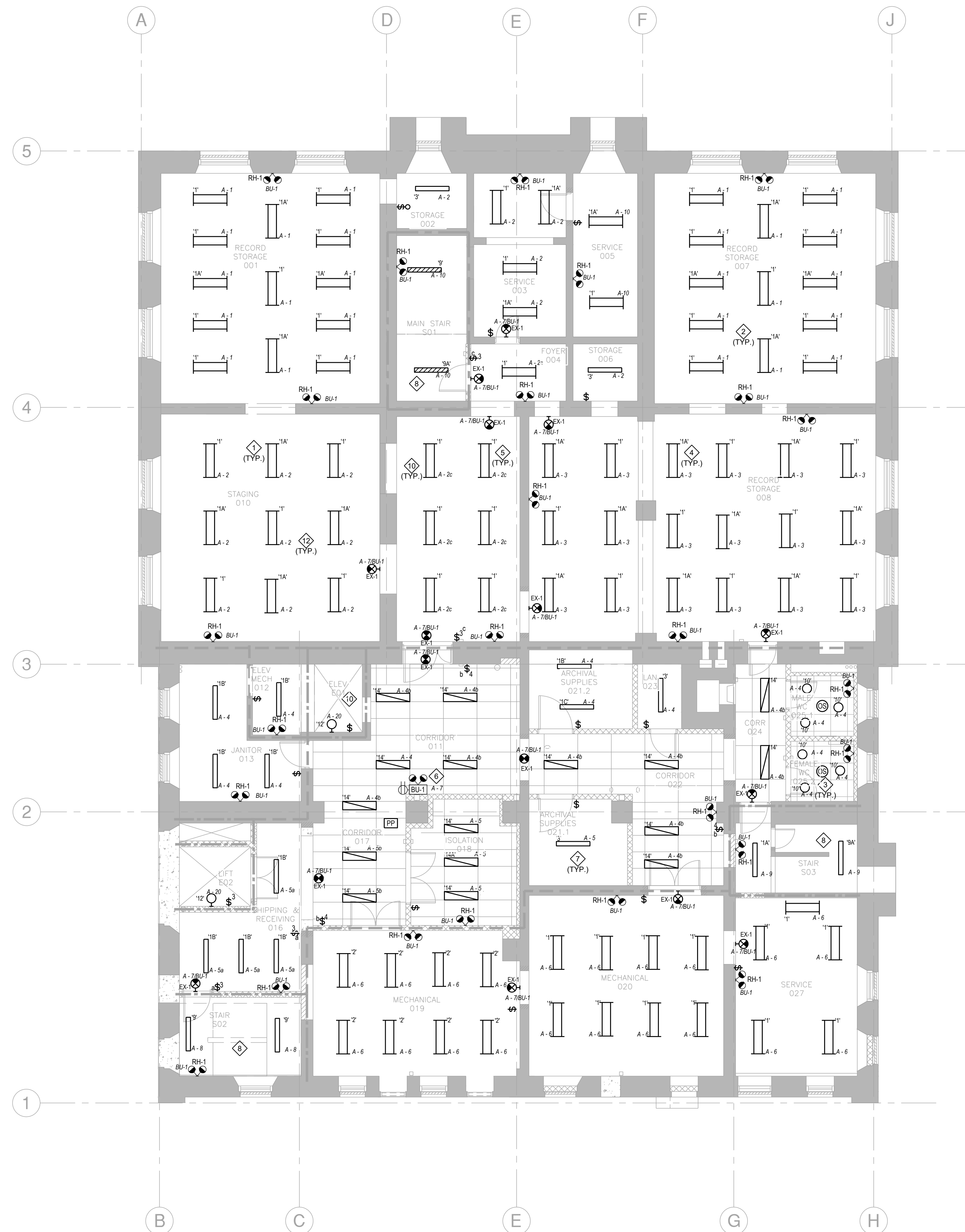
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REDEVELOPMENT**  
380 WILLIAM AVENUE - WINNIPEG, MANITOBA

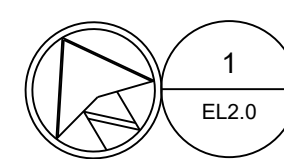
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sheet no.

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NOTES:

- COORDINATE LOCATION & MOUNTING HEIGHT OF ELECTRICAL DEVICES ON SITE WITH ARCHITECTURAL, MECHANICAL & GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- LUMINAIRES IN AREAS RECORD STORAGE 001, 007 AND 008, STAGING 010 SHALL BE CONTROLLED BY NEAR BY LUMINAIRE WITH TYPE '1A' INTEGRATED OCCUPANCY SENSORS.
- OCCUPANCY SENSORS SHALL TURN LUMINAIRES OFF WHEN UNOCCUPIED FOR 15 MINUTES AND TURN LUMINAIRES ON WHEN ACTIVATED.
- OCCUPANCY SENSORS SHALL BE TUNED DURING COMMISSIONING STAGE. CONFIRM SENSOR DURATION WITH OWNER ON SITE.
- CONDUIT/CABLING PENETRATIONS TO WALLS, FLOORS AND CEILING SHALL BE SEALED WITH APPROVED FIRE CAULK/SEALANT.
- PROVIDE ZONE SENSING MODULE ON BATTERY UNIT BU-1 TO DETECT LOSS OF VOLTAGE ON CIRCUITS A-1, A-2, A-3, A-4, A-5, A-6, A-8, A-9.
- PROVIDE INTEGRATED VACANCY SENSORS WITHIN LUMINAIRES, IN ISOLATION ROOM 019, SERVICE ROOM 003, SERVICE ROOM 005, STORAGE ROOM 002, STORAGE ROOM 006, ARCHIVAL SUPPLIES 021.1 AND 21.2, JANITOR 013, ELEV MECH 012 AND SHIPPING & RECEIVING 016. LUMINAIRES IN ROOMS WILL TURN ON WITH A SWITCH AND WILL TURN OFF WHEN NO OCCUPANCY IS DETECTED FOR 15 MINUTES.
- PROVIDE OCCUPANCY SENSOR INTEGRATED WITHIN STAIRWELL TYPE 9A LUMINAIRES WITH 50% OF DIMMING WHEN SPACE IS UNOCCUPIED AND FULLY ON WHEN OCCUPANCY IS DETECTED.
- LUMINAIRES IN CORRIDOR 011, 022, 017, 024 AND FOYER 004 ARE CONTROLLED BY SWITCHES.
- 3-WAY SWITCHES W/ LIGHTS AT TOP OF ELEVATOR SHAFT.
- SUSPENDED LUMINAIRES SHALL BE HUNG SUCH THAT LENS IS FLUSH W/ US OF JOISTS IN AREA.



1 BASEMENT - LIGHTING RENOVATION

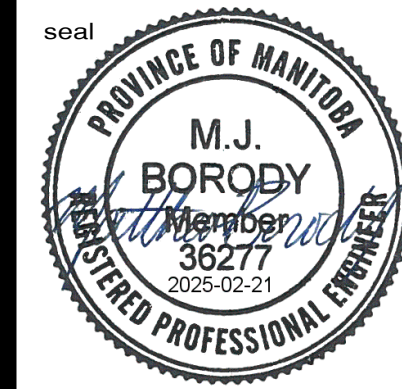
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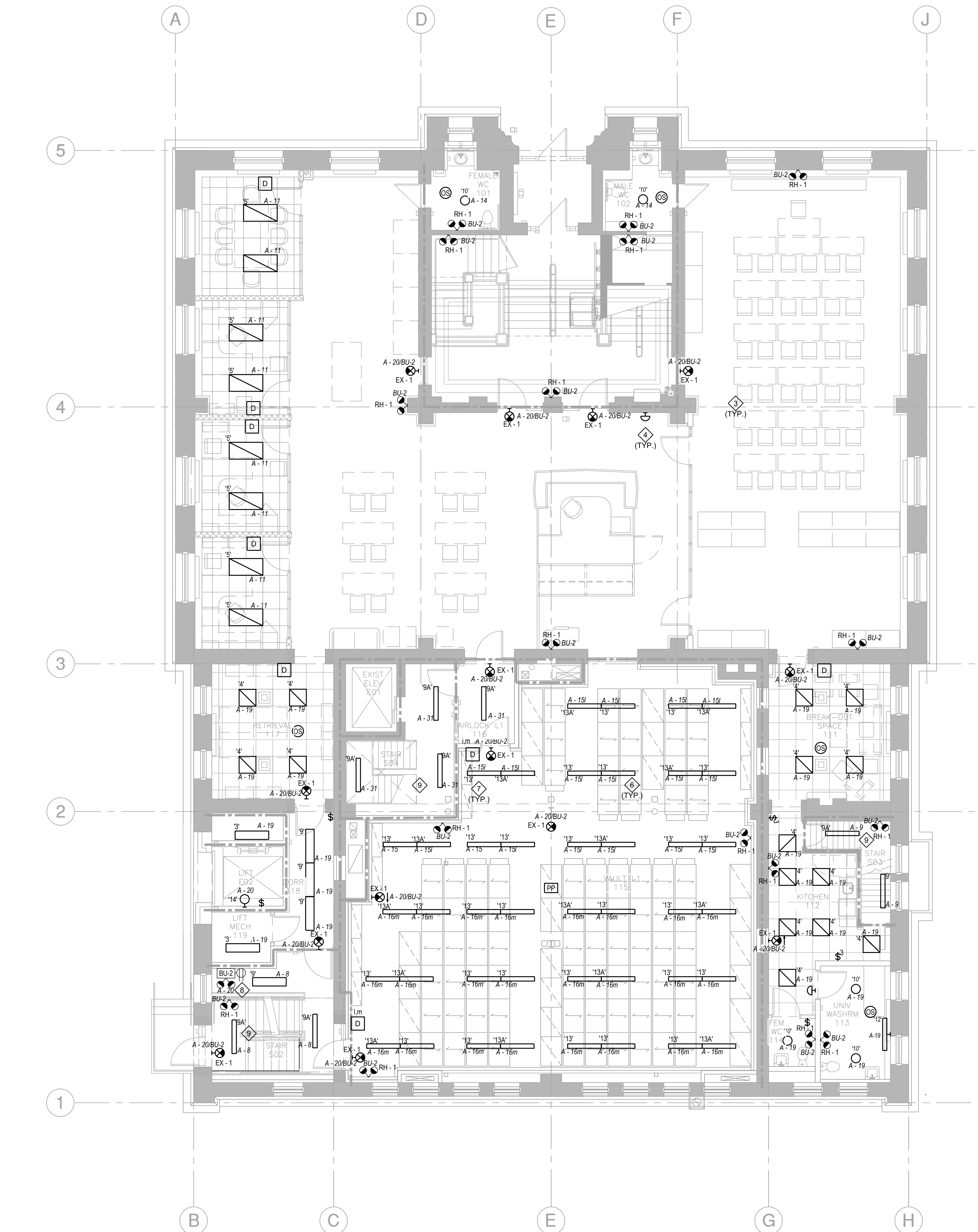
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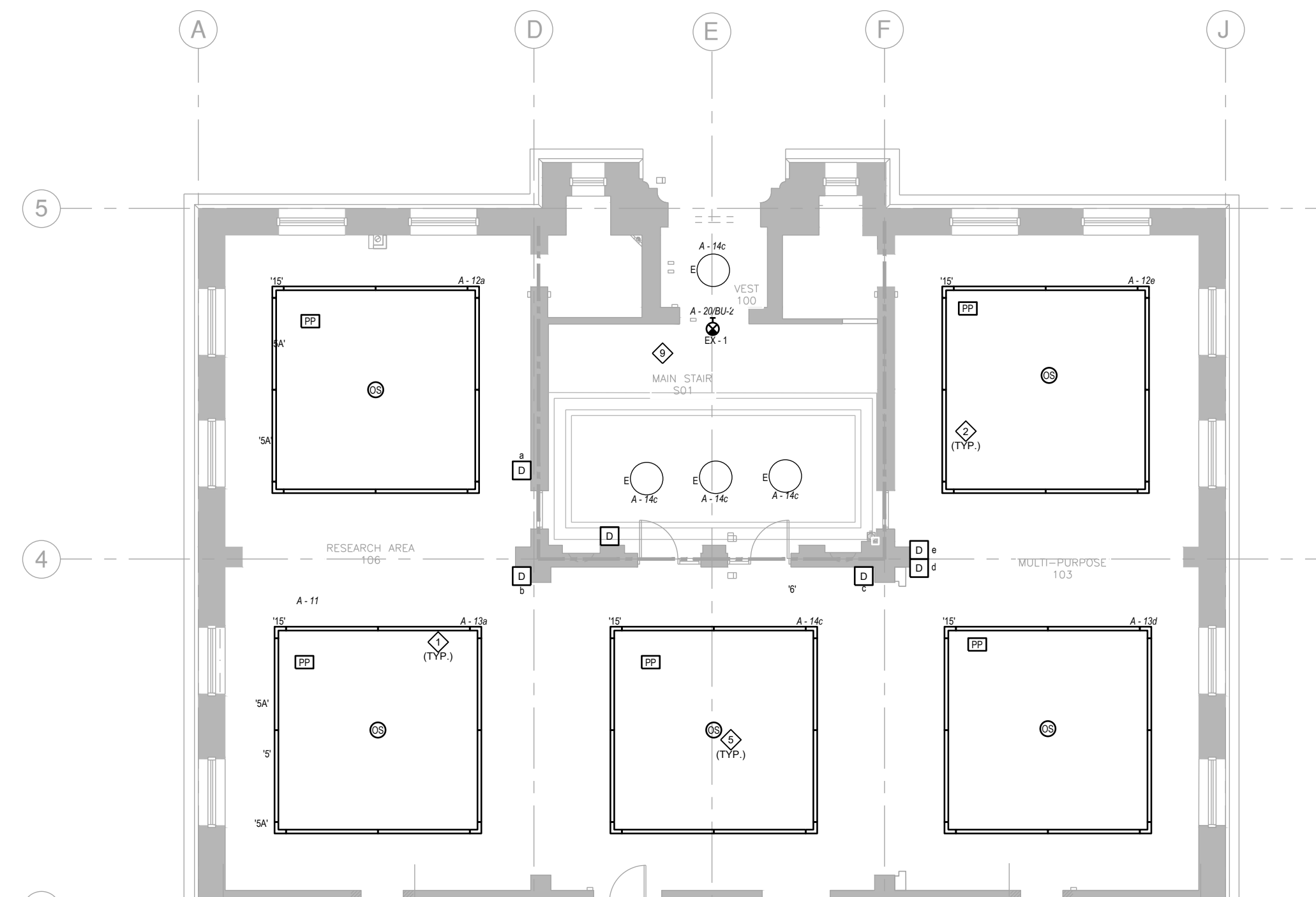
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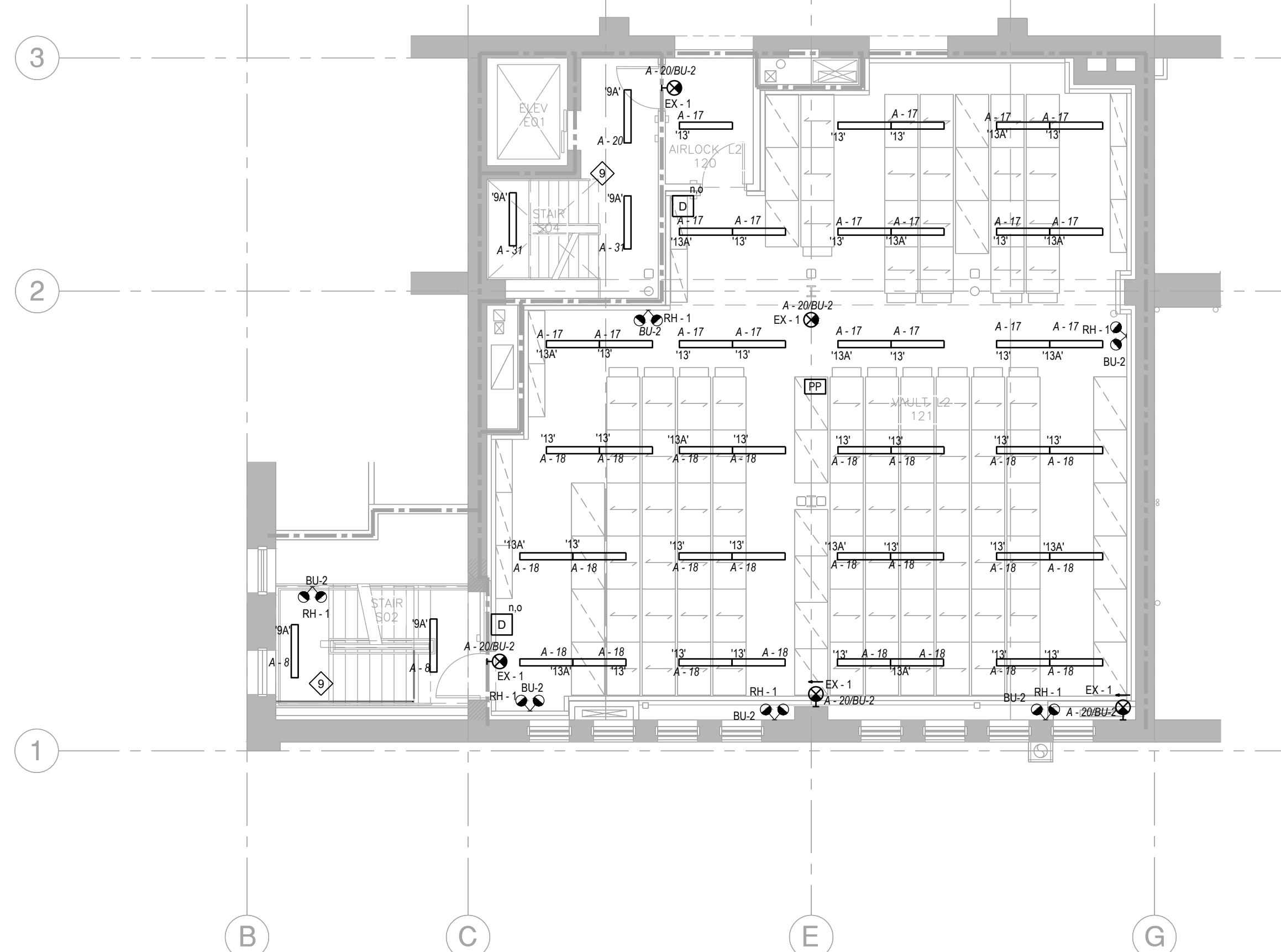
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1 MAIN FLOOR LOWER LEVEL - LIGHTING RENOVATION  
Scale: 1/8" = 1'-0"



2 MAIN FLOOR HIGHER LEVEL - LIGHTING RENOVATION  
Scale: 3/32" = 1'-0"



3 MAIN FLOOR MEZZANINE - LIGHTING RENOVATION  
Scale: 3/32" = 1'-0"

NOTES:

- 1 COORDINATE LOCATION & MOUNTING HEIGHT OF ELECTRICAL DEVICES ON SITE WITH ARCHITECTURAL & GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- 2 LUMINAIRES SHALL BE CONTROLLED BY OCCUPANCY SENSORS.
- 3 PROVIDE DIMMERS FOR EACH ZONE INDICATED C/W ASSOCIATED RELAY AND POWER PACK. OCCUPANCY SENSORS SHALL TURN LUMINAIRES OFF WHEN UNOCCUPIED AND TURN LUMINAIRES ON TO DIMMER SETTING WHEN ACTIVATED.
- 4 PROVIDE 0-10V DIMMING CONTROL CABLING IN SEPARATE CONDUIT FROM CONTROLLER TO LUMINAIRES.
- 5 OCCUPANCY SENSORS SHALL BE TUNED DURING COMMISSIONING STAGE. CONFIRM SENSOR DURATION WITH OWNER ON SITE.
- 6 CONDUIT/CABLING SHALL BE CONCEALED. SURFACE MOUNTED METAL WIREMOLD C/W SOLID SURFACE BOX SHALL ONLY BE UTILIZED IN AREAS APPROVED BY CONSULTANT PRIOR TO INSTALLATION.
- 7 CONDUIT/CABLING PENETRATIONS TO WALLS, FLOORS AND CEILING SHALL BE SEALED WITH APPROVED FIRE CAULK/SEALANT.
- 8 PROVIDE ZONE SENSING MODULE ON BATTERY UNIT BU-2 TO DETECT LOSS OF VOLTAGE ON CIRCUIT A-8,10,12,13,14,17,19.
- 9 PROVIDE OCCUPANCY SENSOR INTEGRATED WITHIN LUMINAIRES WITH 50% OF DIMMING WHEN SPACE IS UNOCCUPIED AND FULLY ON WHEN OCCUPANCY IS DETECTED.
- 10 PROVIDE INTEGRATED VACANCY SENSORS WITHIN LUMINAIRES. OFFICES AND MEETING ROOMS. LUMINAIRES IN ROOMS WILL TURN ON WITH A SWITCH AND WILL TURN OFF WHEN NO OCCUPANCY IS DETECTED FOR 15 MINS.

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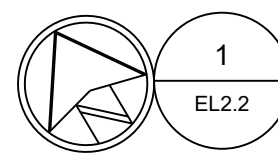
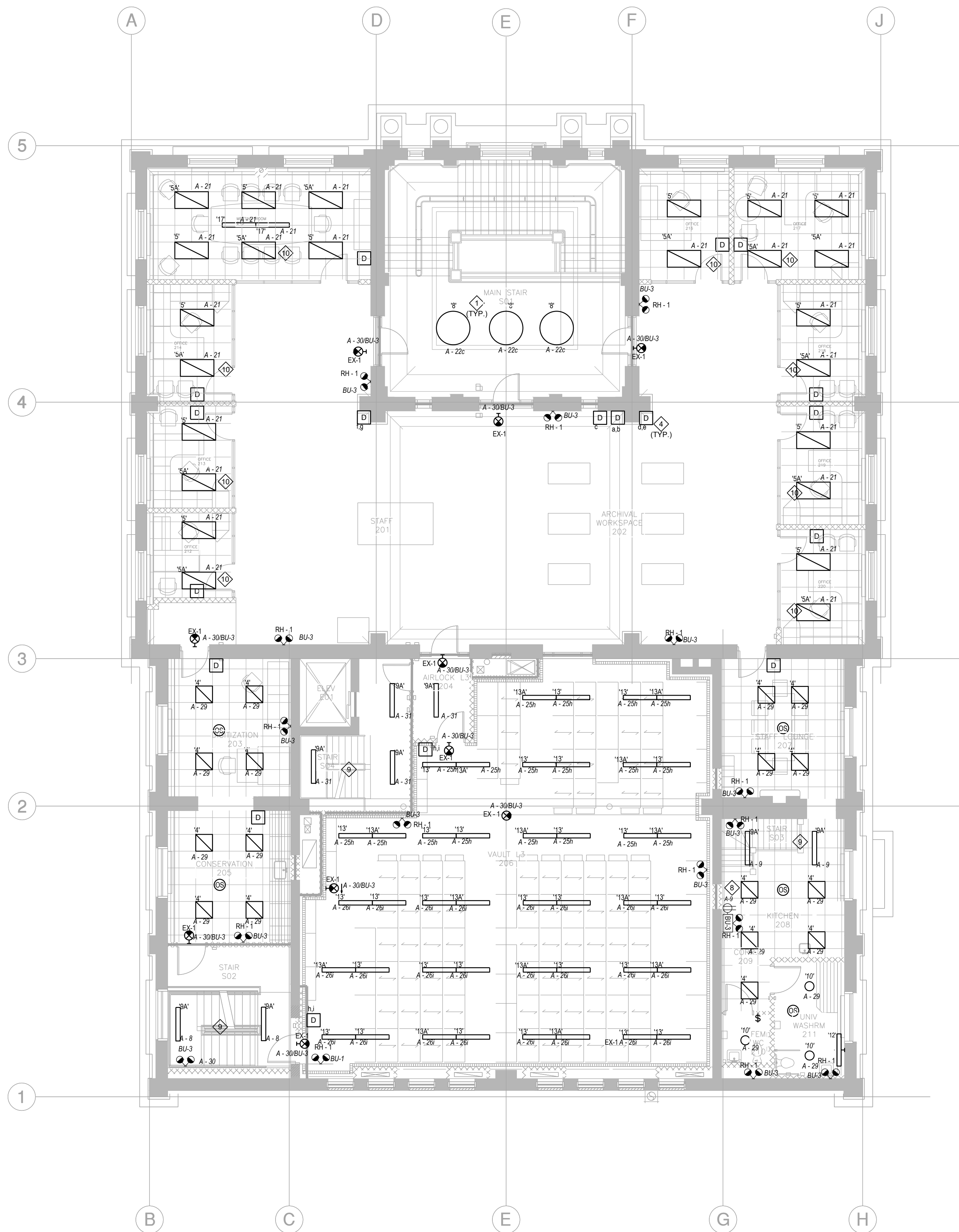
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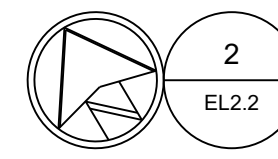
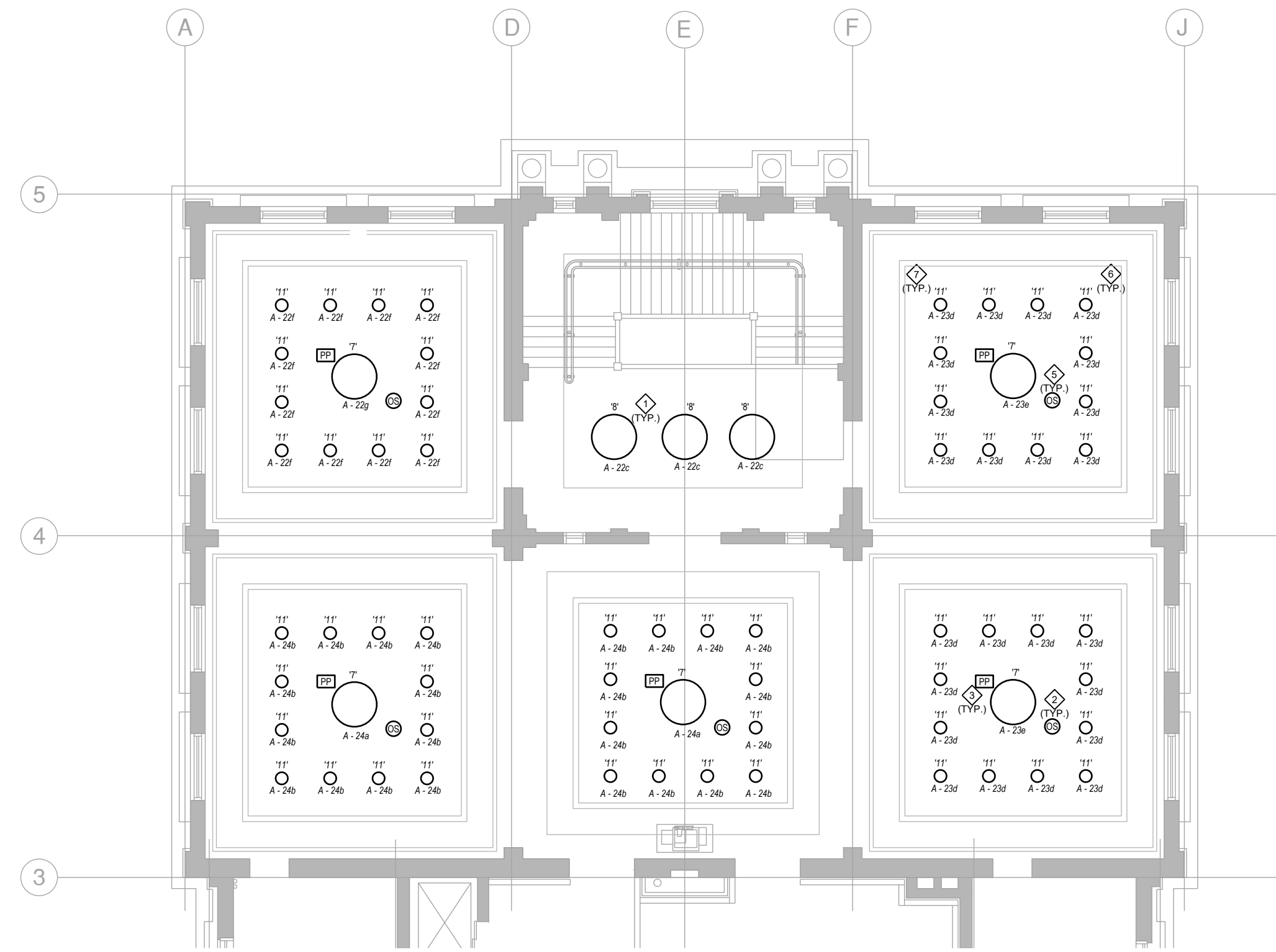
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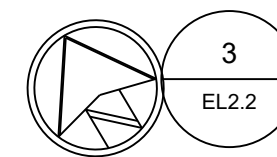
**SECOND FLOOR LOWER LEVEL - LIGHTING RENOVATION**  
Scale: 1/8" = 1'-0"



**SECOND FLOOR HIGHER LEVEL - LIGHTING RENOVATION**  
Scale: 3/32" = 1'-0"

**NOTES:**

1. COORDINATE LOCATION & MOUNTING HEIGHT OF ELECTRICAL DEVICES ON SITE WITH ARCHITECTURAL & GENERAL CONTRACTOR PRIOR TO INSTALLATION.
2. LUMINAIRES SHALL BE CONTROLLED BY OCCUPANCY SENSORS.
3. PROVIDE DIMMERS FOR EACH ZONE INDICATED C/W ASSOCIATED RELAY AND POWER PACK. OCCUPANCY SENSORS SHALL TURN LUMINAIRES OFF WHEN UN-OCCUPIED AND TURN LUMINAIRES ON TO DIMMER SETTING WHEN ACTIVATED.
4. PROVIDE 0-10V DIMMING CONTROL CABLING IN SEPARATE CONDUIT FROM CONTROLLER TO LUMINAIRES.
5. OCCUPANCY SENSORS SHALL BE TUNED DURING COMMISSIONING STAGE. CONFIRM SENSOR DURATION WITH OWNER ON SITE.
6. CONDUIT/CABLING SHALL BE CONCEALED. SURFACE MOUNTED METAL WIREMOLD C/W SOLID SURFACE BOX SHALL ONLY BE UTILIZED IN AREAS APPROVED BY CONSULTANT PRIOR TO INSTALLATION.
7. CONDUIT/CABLING PENETRATIONS TO WALLS, FLOORS AND CEILING SHALL BE SEALED WITH APPROVED FIRE CAULK/SEALANT.
8. PROVIDE ZONE SENSING MODULE ON BATTERY UNIT BU-3 TO DETECT LOSS OF VOLTAGE ON CIRCUIT A-8, A-22, A-23, A-24, A-26, A-27, A-29.
9. PROVIDE OCCUPANCY SENSOR INTEGRATED WITHIN LUMINAIRES WITH 50% OF DIMMING WHEN SPACE IS UNOCCUPIED AND FULLY ON WHEN OCCUPANCY IS DETECTED.
10. PROVIDE INTEGRATED VACANCY SENSORS WITHIN LUMINAIRES. OFFICES AND MEETING ROOMS. LUMINAIRES IN ROOMS WILL TURN ON WITH A SWITCH AND WILL TURN OFF WHEN NO OCCUPANCY IS DETECTED FOR 15 MINS.

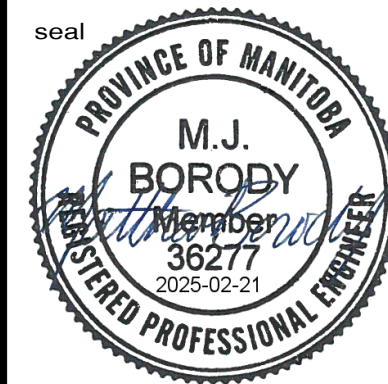


**SECOND FLOOR MEZZANINE - LIGHTING RENOVATION**  
Scale: 3/32" = 1'-0"

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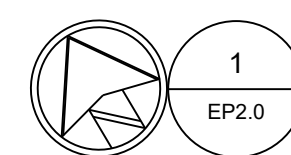
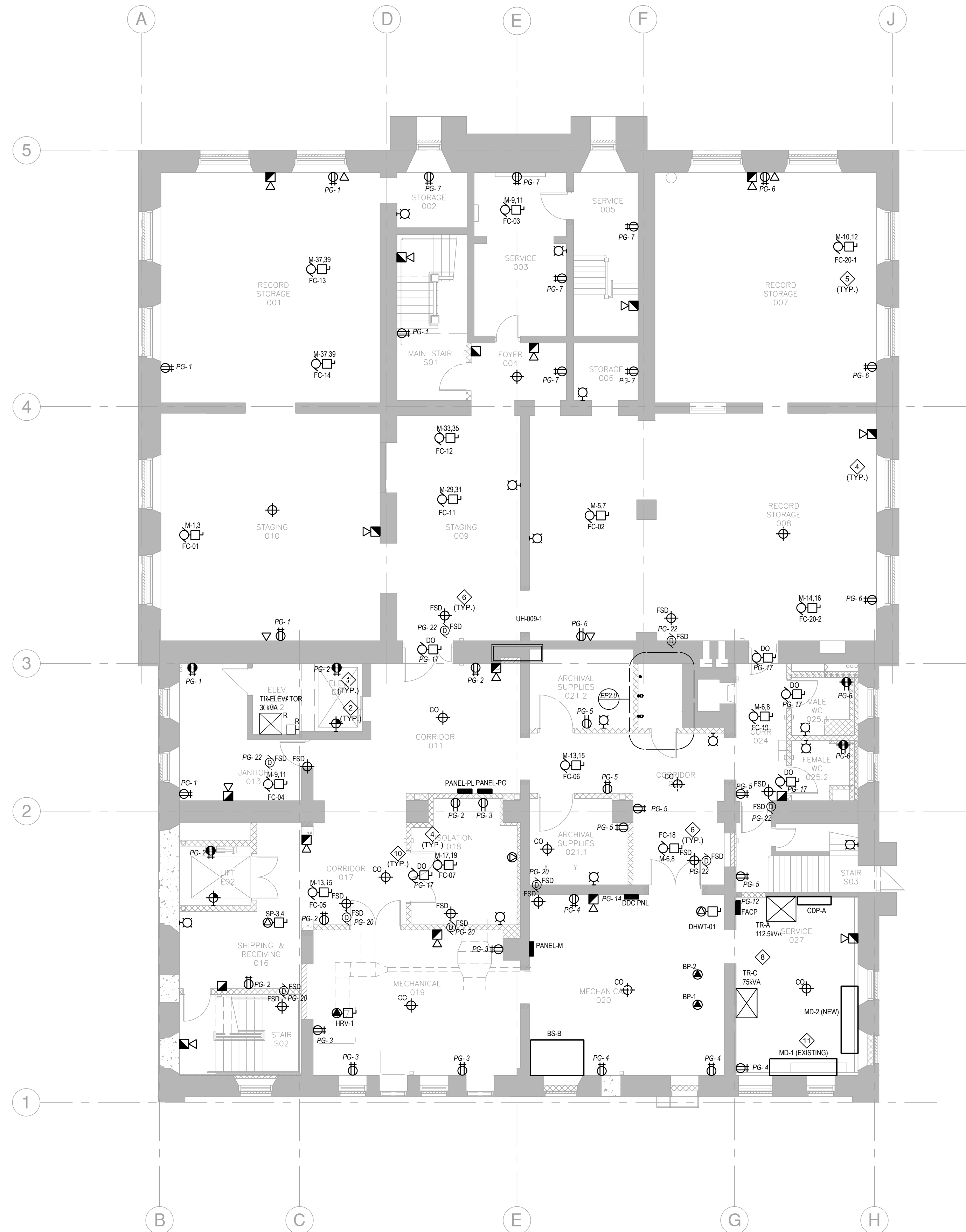
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# BASEMENT - POWER & SYSTEMS RENOVATION

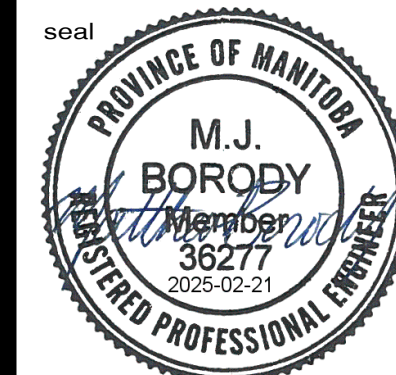
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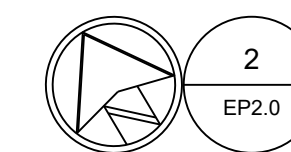
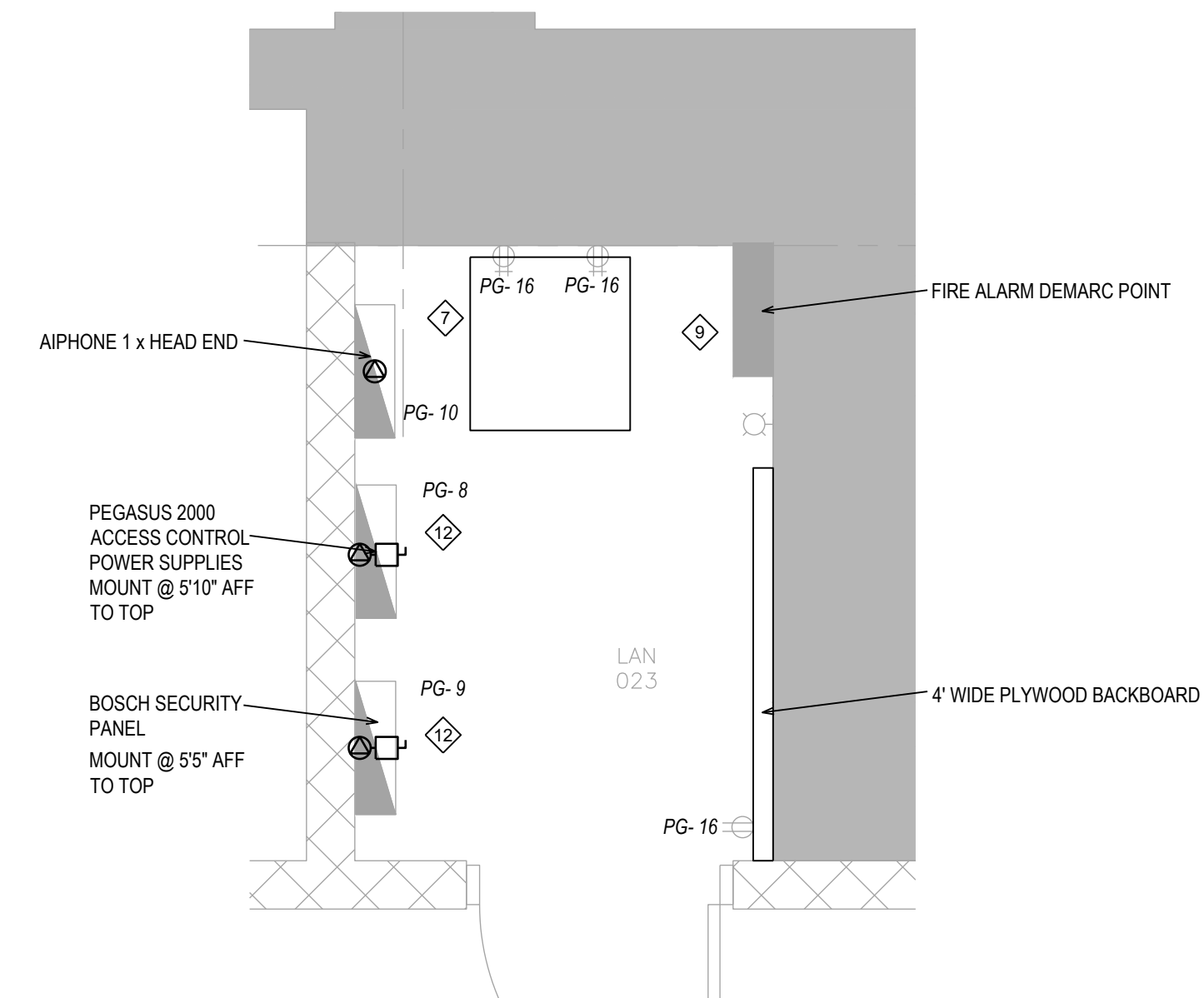
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**REDEVELOPMENT**  
 380 WILLIAM AVENUE - WINNIPEG, MANITOBA

project  
**2624**  
 sheet no.

**EP2.0**

## NOTES:

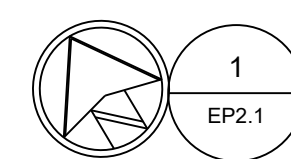
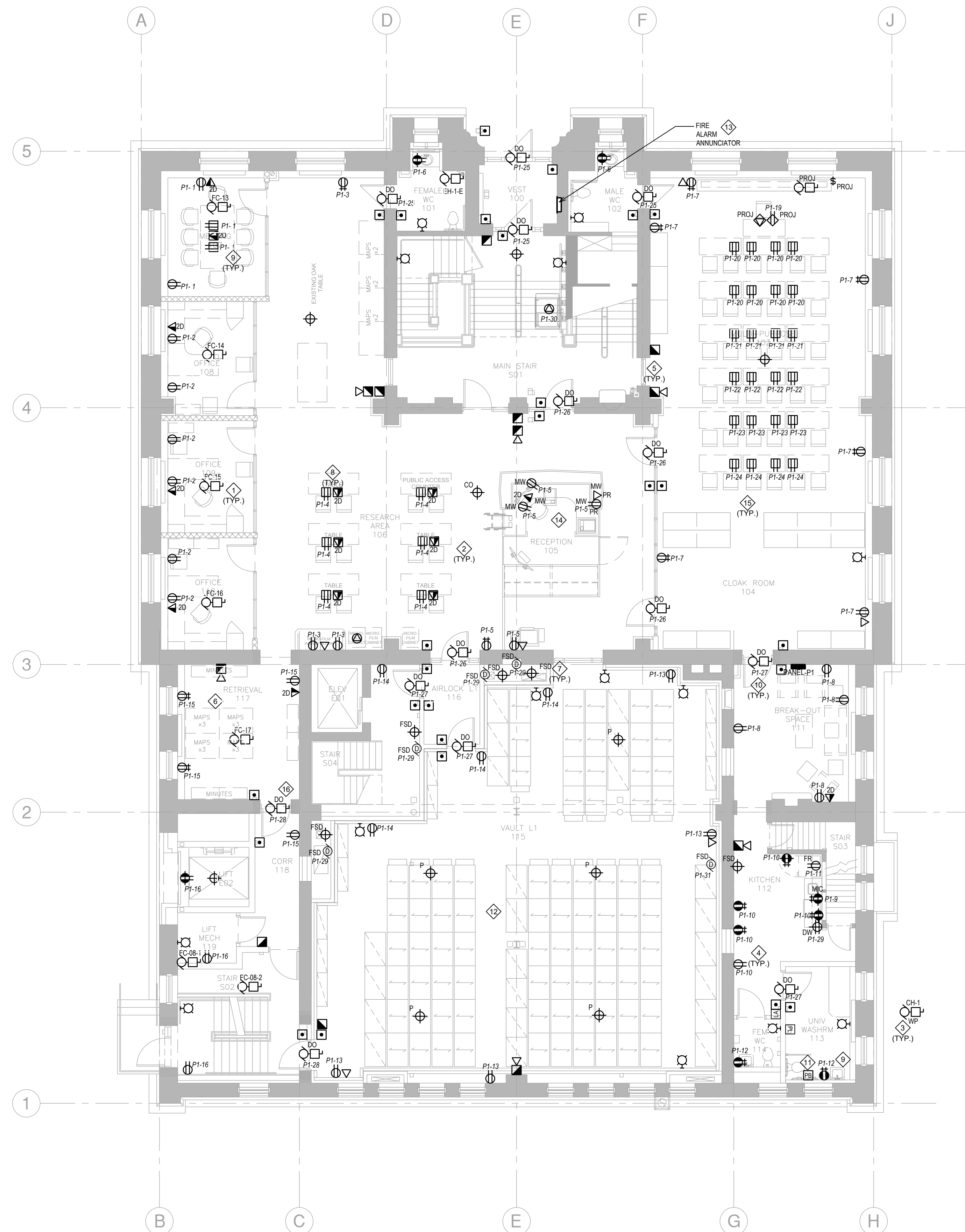
- COORDINATE LOCATION & MOUNTING HEIGHT OF ELECTRICAL DEVICES ON SITE WITH ARCHITECTURAL & GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- WIRING SHALL BE CONCEALED. SURFACE MOUNTED METAL WIREMOLD C/W SURFACE FS BOX SHALL ONLY BE UTILIZED IN AREAS APPROVED BY CONSULTANT PRIOR TO INSTALLATION.
- CABLE/CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS SHALL BE PROPERLY SEALED WITH APPROVED FIRE CAULK/SEALANT.
- PROVIDE CONDUIT C/W PULLWIRE FROM MECHANICAL EQUIPMENT TO CONTROL POINT C/W RECESSED OUTLET BOX. CONFIRM REQUIREMENT & LOCATIONS ON SITE WITH MECHANICAL.
- CABLE/CONDUIT SHALL NOT BE ROUTED THROUGH STEEL BEAMS OR HOLLOW CORE WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER.
- PROVIDE HILTI SPEED SLEEVES C/W FIRE STOP SEAL FOR TRANSITION OF CABLES THROUGH FIRE SEPARATIONS. COORDINATE SIZE OF SLEEVES REQUIRED WITH FLOOR/WALL OPENER.
- CAT6 FT6 CABLEING SHALL BE COLOR CODED AS FOLLOWS:  
 (i) BLUE CAT6 FT6 - DATA CABLEING  
 (ii) BLUE CAT6 FT6 - VOICE CABLEING  
 (iii) GREEN CAT6 FT6 - SPEAKER CABLEING  
 (iv) GREEN CAT6 FT6 - PA SYSTEM CABLEING  
 (v) YELLOW CAT FT6 - CCTV CABLEING
- CONTRACTOR SHALL CAREFULLY MEASURE SERVICE ROOM 027 & ENSURE ALL DISTRIBUTION EQUIPMENT MAINTAINS PROPER CODE REQUIRED CLEARANCES.
- PROVIDE TWO (2) CAT 6 CABLES FROM FIRE ALARM TO FIRE ALARM DEMARC, FROM FIRE ALARM DEMARC TO SECURITY PANEL/DIALER AND FROM DIALER TO TELEPHONE DEMARC.
- WIRE AND CONNECT DOOR OPERATORS C/W ASSOCIATED CONTROL AS PROVIDED BY DOOR HARDWARE SUPPLIER. PROVIDE LOCAL DISCONNECT. COORDINATE REQUIREMENTS ON SITE WITH SHOP DRAWINGS PRIOR TO ROUGH-IN.
- RETRO-FIT EXISTING MAIN DISTRIBUTION PANEL WITH NEW SPRINKLER DRIP SHIELD TO ACCOMMODATE NEW SPRINKLERING IN BUILDING. REMOVE AND RE-INSTALL ANY EXISTING WIRING TO REMAIN TO ACCOMMODATE INSTALLATION OF DRIP SHIELD.
- PROVIDE LOCKABLE DISCONNECT FOR SECURITY PANEL COORDINATE LOCATION WITH CITY.



# BASEMENT - LAN ROOM - POWER & SYSTEMS RENOVATION

Scale: 1/2" = 1'-0"

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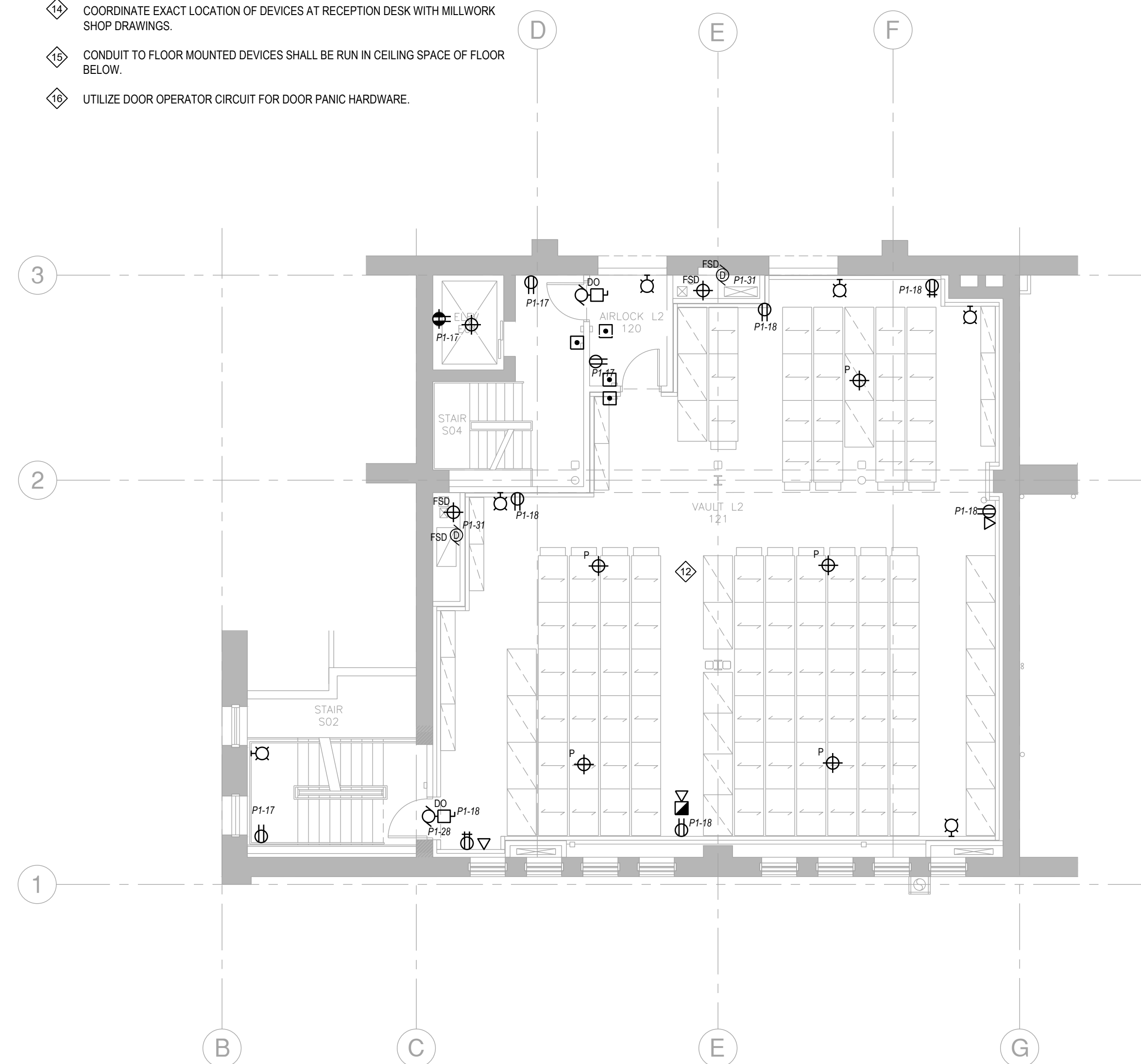


**1 MAIN FLOOR - POWER & SYSTEMS RENOVATION**

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

**NOTES:**

- 1 WIRING SHALL BE CONCEALED. SURFACE MOUNTED METAL WIREMOLD C/W SURFACE FS BOX SHALL ONLY BE UTILIZED IN AREAS APPROVED BY CONSULTANT PRIOR TO INSTALLATION.
- 2 CABLE/CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS SHALL BE PROPERLY SEALED WITH APPROVED FIRE CAULK/SEALANT.
- 3 PROVIDE CONDUIT C/W PULLWIRE FROM MECHANICAL EQUIPMENT TO CONTROL POINT C/W RECESSED OUTLET BOX. CONFIRM REQUIREMENT & LOCATIONS ON SITE WITH MECHANICAL.
- 4 CABLE/CONDUIT SHALL NOT BE ROUTED THROUGH STEEL BEAMS OR HOLLOW CORE WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER.
- 5 PROVIDE HILTI SPEED SLEEVES C/W FIRE STOP SEAL FOR TRANSITION OF CABLES THROUGH FIRE SEPARATIONS.
- 6 PROVIDE 2 ALDS REQUIRED TO BE HEARING AID AND COCHLEAR IMPLANT COMPATIBLE. AND 2 REMOTE ADLS.
- 7 PROVIDE A FIRE SMOKE DETECTOR A METER AWAY FROM FIRE SMOKE DAMPER IN DUCT.
- 8 FLOOR BOX SHALL BE HUBBLE 4" RECESSED FIRE RATED POKE THROUGH OR EQUAL.
- 9 FLOOR BOX SHALL BE HUBBLE 6" RECESSED FIRE RATED POKE THROUGH OR EQUAL.
- 10 WIRE AND CONNECT DOOR OPERATORS C/W ASSOCIATED CONTROL AS PROVIDED BY DOOR HARDWARE SUPPLIER. PROVIDE LOCAL DISCONNECT. COORDINATE REQUIREMENTS ON SITE WITH SHOP DRAWINGS PRIOR TO ROUGH-IN.
- 11 WIRE AND CONNECT THE PANIC BUTTON SUCH THAT IT TURNS ON DOME LIGHT ABOVE DOOR AND NEAR RECEPTION AREA.
- 12 VAULT IS PRE-ACTION SPRINKLER AREA. TWO (2) SMOKE DETECTORS ACTUATED SIMULTANEOUSLY ON A SINGLE VAULT LEVEL SHALL ACTUATE VAULT SOLENOID VALVE.
- 13 FIRE ALARM ANNUNCIATOR SHALL FIT TO EXISTING RECESSED BACKBOX. PROVIDE FILLER PLATES AS REQUIRED.
- 14 COORDINATE EXACT LOCATION OF DEVICES AT RECEPTION DESK WITH MILLWORK SHOP DRAWINGS.
- 15 CONDUIT TO FLOOR MOUNTED DEVICES SHALL BE RUN IN CEILING SPACE OF FLOOR BELOW.
- 16 UTILIZE DOOR OPERATOR CIRCUIT FOR DOOR PANIC HARDWARE.



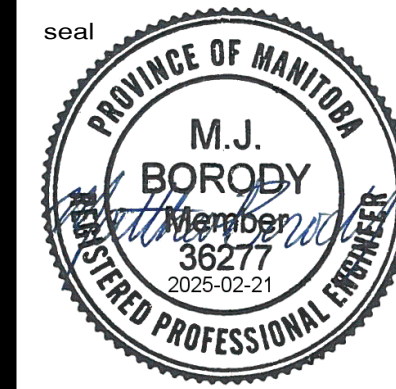
**2 MAIN FLOOR MEZZANINE - POWER & SYSTEMS RENOVATION**

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

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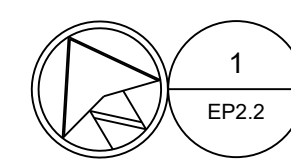
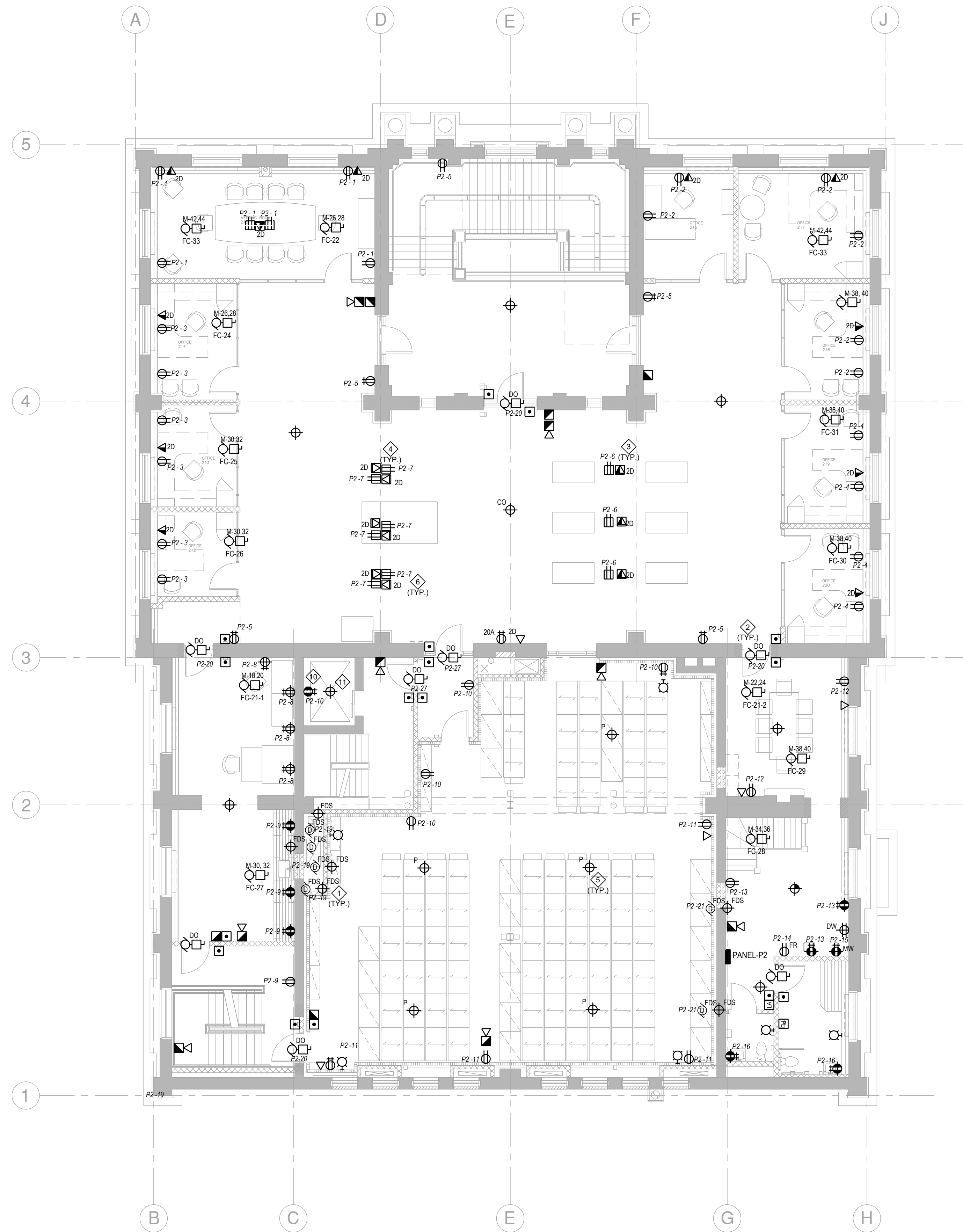
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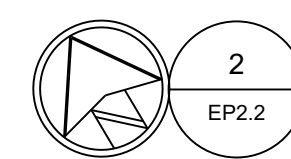
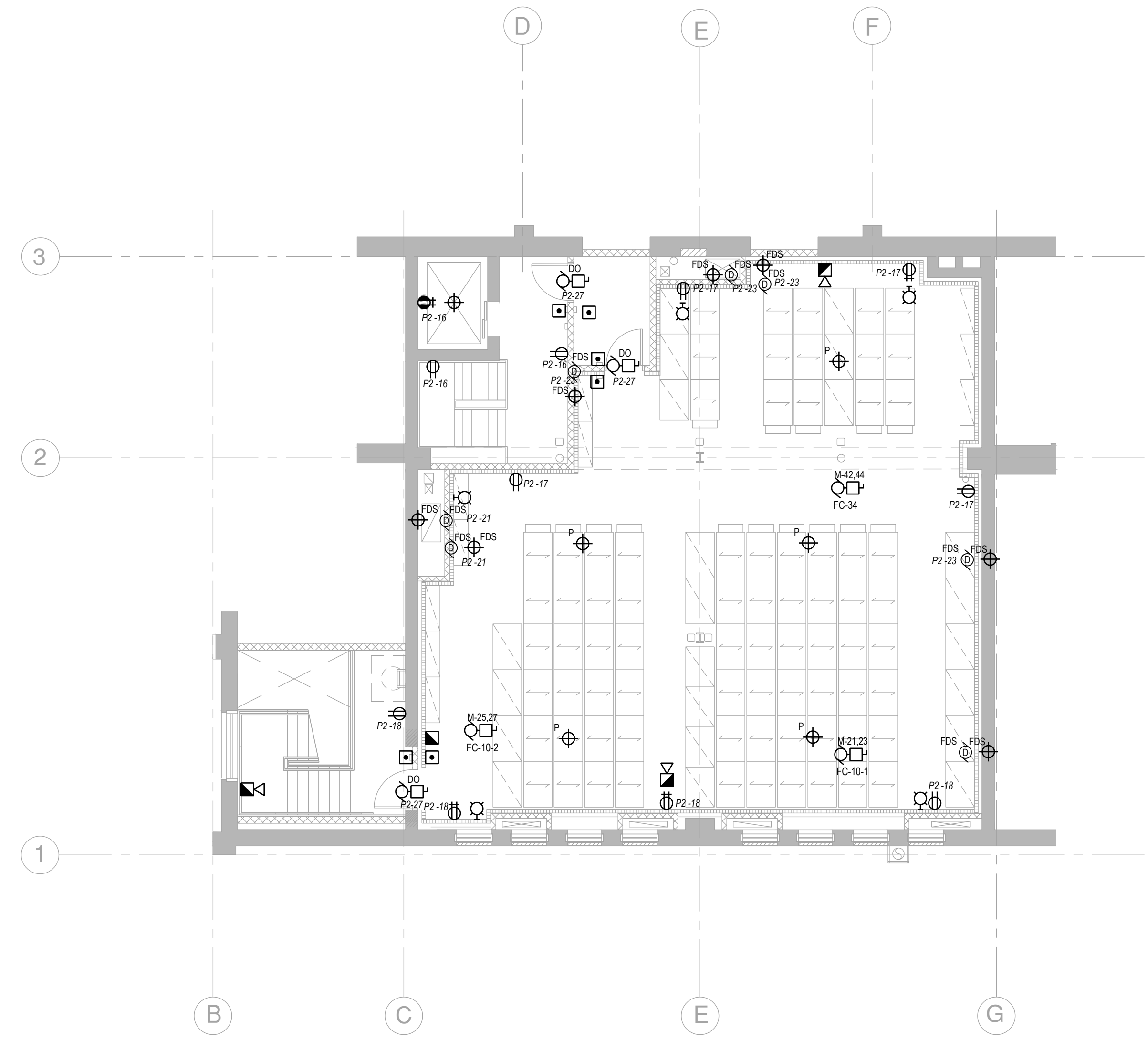
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**1 SECOND FLOOR - POWER & SYSTEMS RENOVATION**

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

- NOTES:**
- 1 PROVIDE A FIRE SMOKE DETECTOR METER AWAY FROM FIRE SMOKE DAMPER IN THE DUCT.
  - 2 WIRE AND CONNECT DOOR OPERATORS ON ASSOCIATED CONTROL AS PROVIDED BY DOOR HARDWARE SUPPLIER. PROVIDE LOCAL DISCONNECT. COORDINATE REQUIREMENTS ON SITE WITH SHOP DRAWINGS PRIOR TO ROUGH-IN.
  - 3 FLOOR BOX SHALL BE HUBBLE 4" RECESSED FIRE RATED POKE THROUGH OR EQUAL.
  - 4 FLOOR BOX SHALL BE HUBBLE 6" RECESSED FIRE RATED POKE THROUGH OR EQUAL.
  - 5 VAULT IS PRE-ACTION SPRINKLER AREA. TWO (2) SMOKE DETECTORS ACTUATED SIMULTANEOUSLY ON A SINGLE VAULT LEVEL SHALL ACTUATE VAULT SOLENOID VALVE.
  - 6 CONTRACTOR SHALL COORDINATE ON SITE ACCESS TO FLOOR / CEILING FOR POWER AND COMMUNICATION TO RECESSED FLOOR BOXES.



**2 SECOND FLOOR MEZZANINE - POWER & SYSTEMS RENOVATION**

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

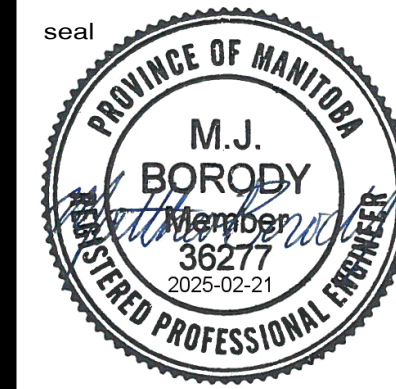
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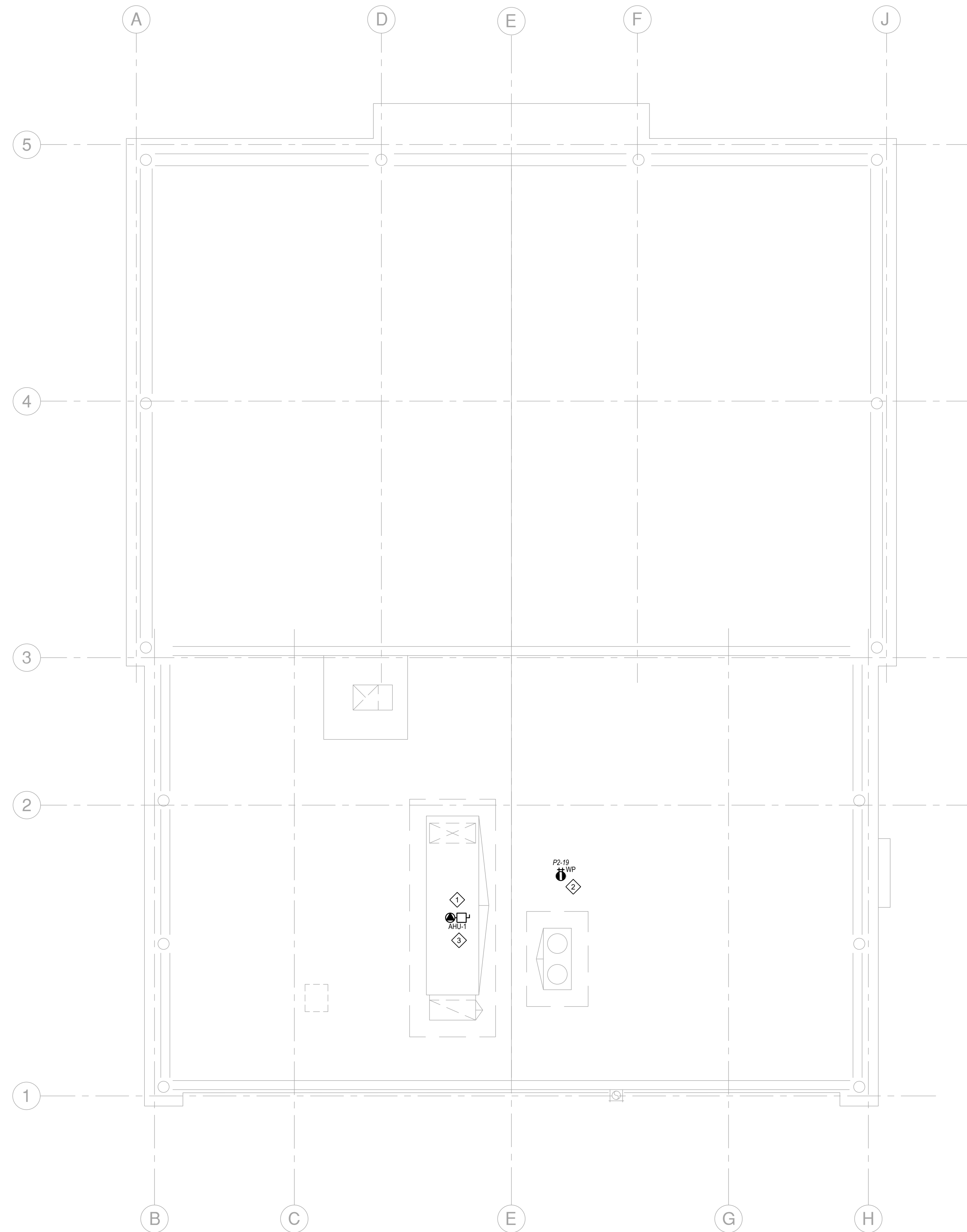
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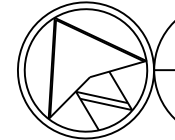
**CITY ARCHIVES BUILDING  
REDEVELOPMENT**  
380 WILLIAM AVENUE - WINNIPEG, MANITOBA

project  
**2624**  
sheet no.

**EP2.2**



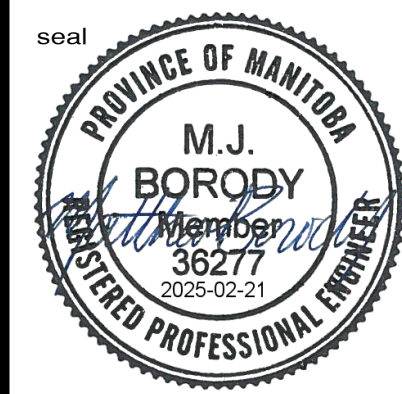
- NOTES:**
- 1. COORDINATE LOCATION AND MOUNTING OF DEVICES ON SITE WITH MECHANICAL PRIOR TO INSTALLATION
  - 2. PROVIDE WEATHERPROOF, INDEPENDENTLY MOUNTED, GFCI PROTECTED 20A T-SLOT RECEPTACLES WITHIN 7.5 METERS OF MECHANICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE ROOF PENETRATIONS WITH GENERAL CONTRACTOR TO ENSURE SAME ARE SEALED PROPERLY. REFER TO DETAIL 8/E6.0.
  - 3. WIRING/CONDUIT SHALL BE ROUTED WITHIN BUILDING AND STUB UP TO NEW SERVICE RECEPTACLES AND EQUIPMENT LOCATED ON ROOF. CABLING/CONDUIT SHALL NOT BE SURFACE ROUTED ON ROOF.

 1  
EP2.3  
**ROOF FLOOR PLAN - POWER & SYSTEMS RENOVATION**  
Scale: 1/8" = 1'-0"

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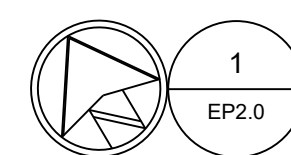
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NOTES:

- 1 CABLE/CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS SHALL BE PROPERLY SEALED WITH APPROVED FIRE CAULK/SEALANT.
- 2 PROVIDE 100x100x60 mm BOX W/ SINGLE GANG REDUCER RING & APPROPRIATE COVER PLATE C/W 21mm CONDUIT PULL WIRE STUBBED UP INTO ACCESSIBLE CEILING SPACE.



1  
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**BASEMENT - SECURITY SYSTEMS RENOVATION**

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

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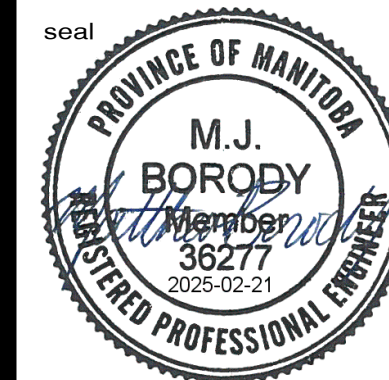


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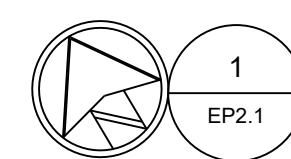
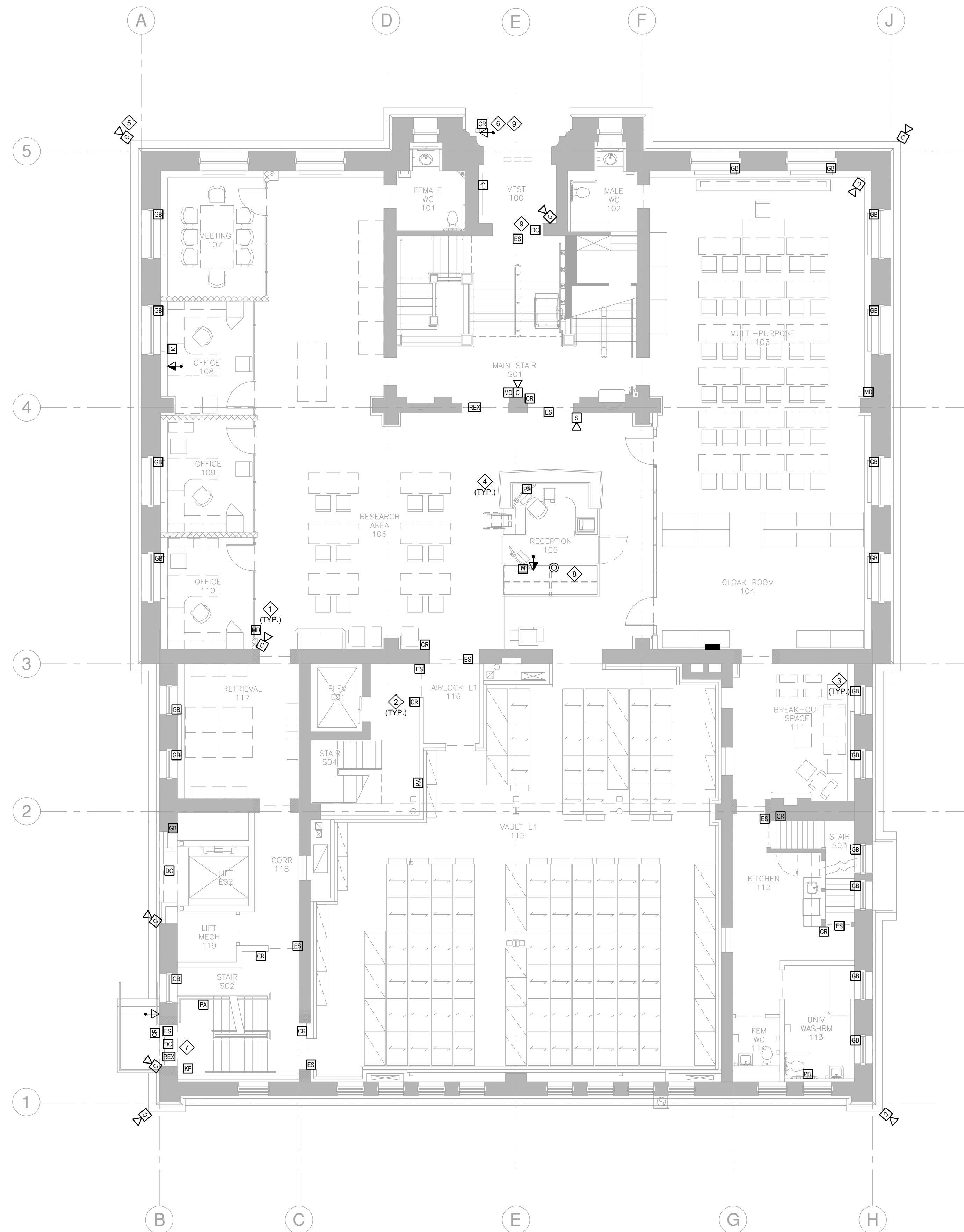
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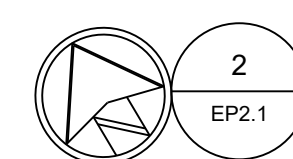
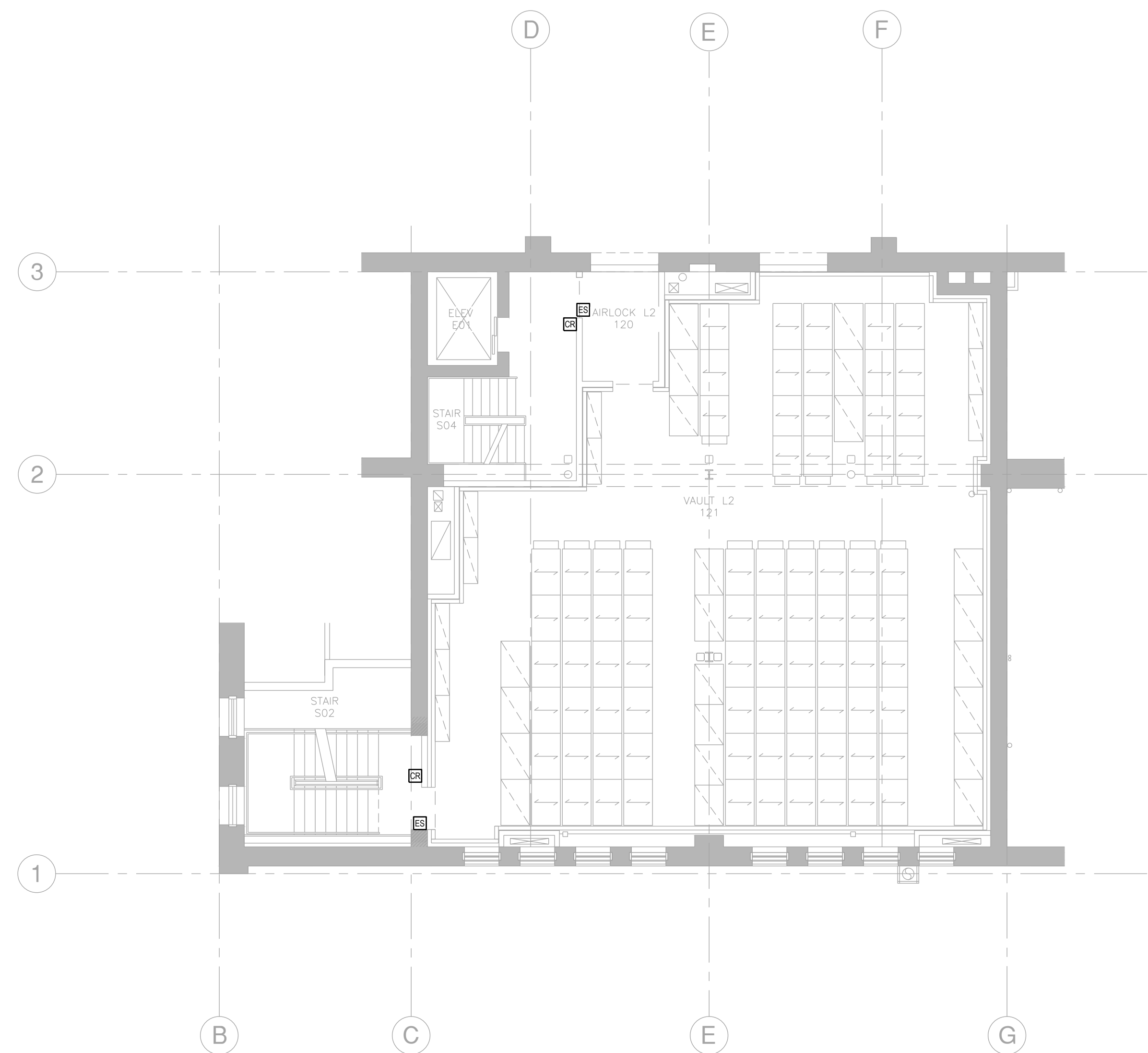
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**ES2.0**



**1 MAIN FLOOR - SECURITY SYSTEMS RENOVATION**

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**2 MAIN FLOOR MEZZANINE - SECURITY SYSTEMS RENOVATION**

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

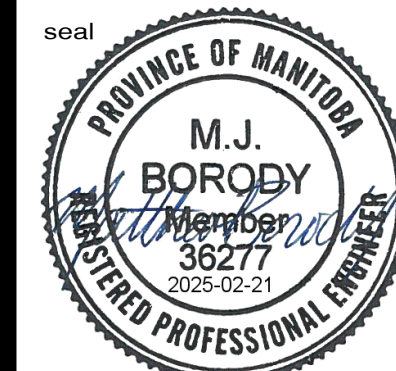
**NOTES:**

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- 2 PROVIDE 100x100x60 mm BOX W/ SINGLE GANG REDUCER RING & APPROPRIATE COVER PLATE C/W 21mm CONDUIT PULL WIRE STUBBED UP INTO ACCESSIBLE CEILING SPACE.
- 3 CABLE/CONDUIT SHALL NOT BE ROUTED THROUGH STEEL BEAMS OR HOLLOW CORE WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER.
- 4 PROVIDE HILTI SPEED SLEEVES C/W FIRE STOP SEAL FOR TRANSITION OF CABLES THROUGH FIRE SEPARATIONS.
- 5 WIRE AND CONNECT CAMERA SUCH THAT IT COVERS NORTH WEST PARKING.
- 6 PUSH TO OPEN, CARD READER AND AIPHONE SYSTEM SHALL BE MOUNDED ON THE PEDESTAL.
- 7 PROVIDE ROUGH-IN FOR REQUEST TO EXIT SENSOR.
- 8 PROVIDE AN EMERGENCY LOCK DOWN SWITCH TO SECURE ALL EXTERIOR DOORS AND PROVIDE THE ACCESS CONTROL AT RECEPTION DESK.
- 9 WIRE AND CONNECT EXISTING SECURITY DEVICES TO NEW SECURITY SYSTEM.

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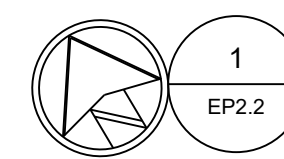
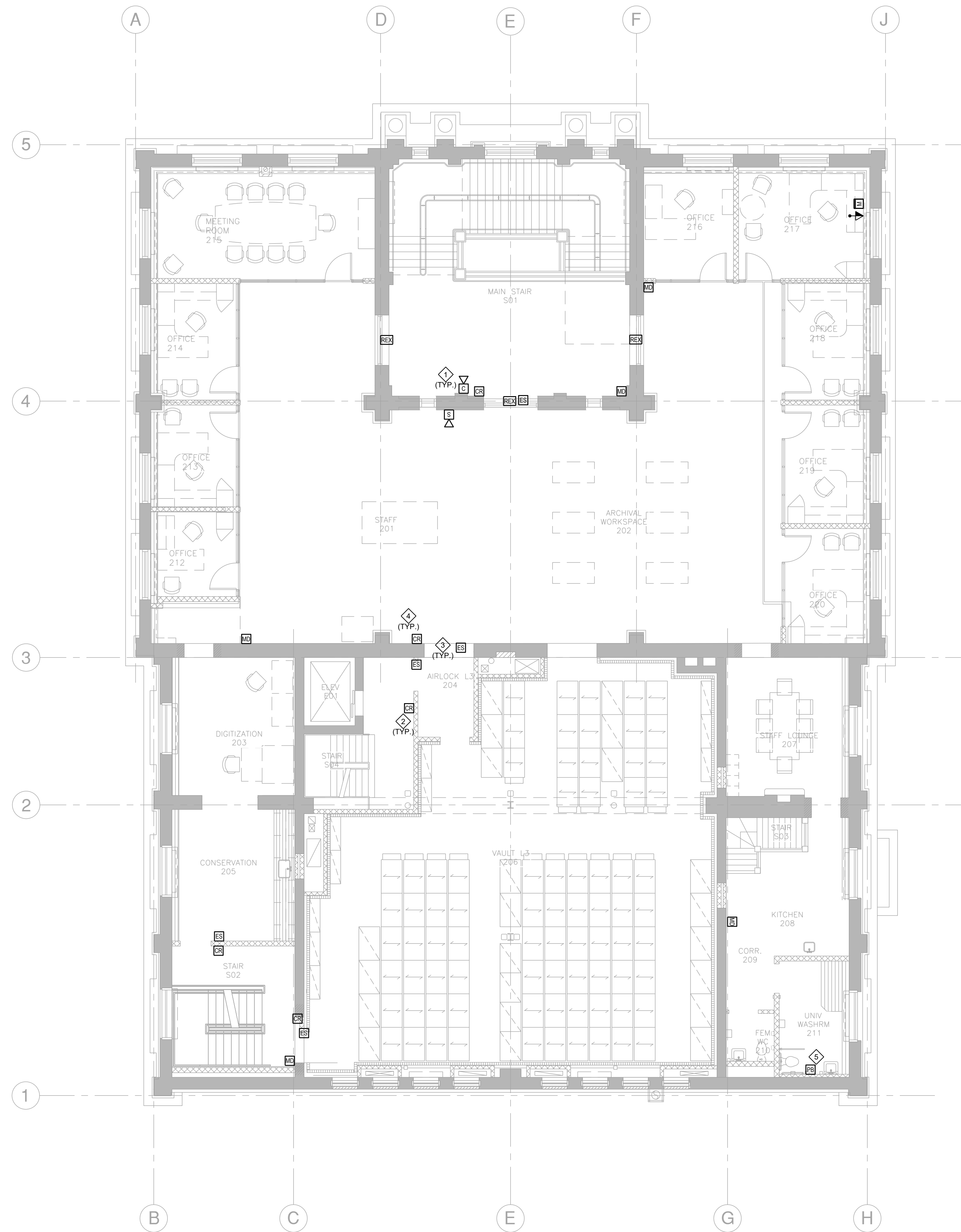
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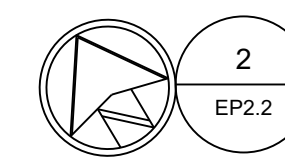
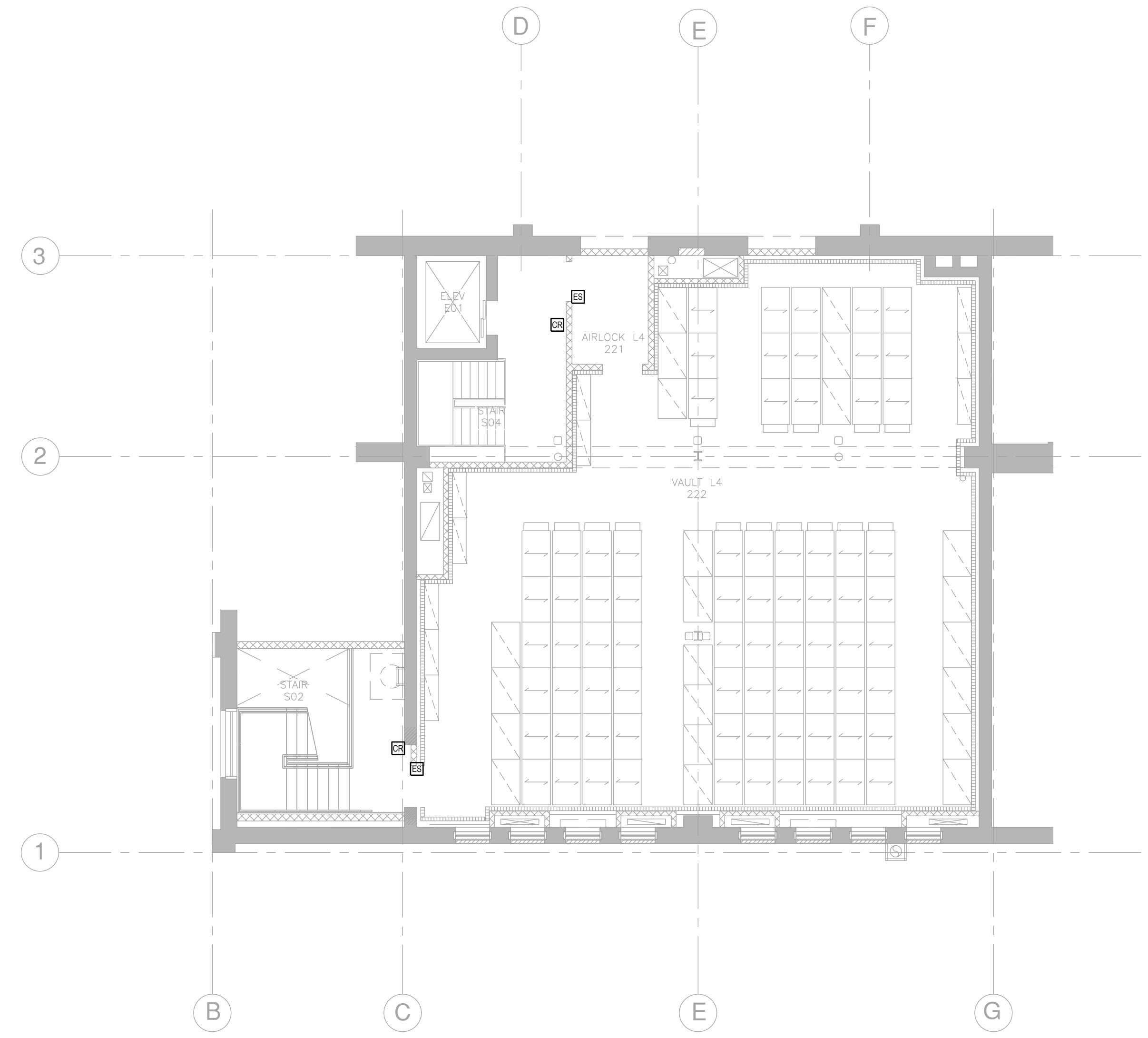
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**1 SECOND FLOOR - SECURITY SYSTEMS RENOVATION**

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



**2 SECOND FLOOR MEZZANINE - SECURITY SYSTEMS RENOVATION**

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

**NOTES:**

- 1 CABLE/CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS SHALL BE PROPERLY SEALED WITH APPROVED FIRE CAULK/SEALANT.
- 2 PROVIDE 100x100x60 mm BOX W/ SINGLE GANG REDUCER RING & APPROPRIATE COVER PLATE C/W 21mm CONDUIT - PULL WIRE STUBBED UP INTO ACCESSIBLE CEILING SPACE.
- 3 CABLING/CONDUIT SHALL NOT BE ROUTED THROUGH STEEL BEAMS OR HOLLOW CORE WITHOUT WRITTEN APPROVAL FROM STRUCTURAL ENGINEER.
- 4 PROVIDE HILTI SPEED SLEEVES C/W FIRE STOP SEAL FOR TRANSITION OF CABLES THROUGH FIRE SEPARATIONS.
- 5 WIRE AND CONNECT PUSH TO LOCK BUTTON SUCH THAT WHEN PRESSED IT TURNS ON DOME LIGHT ABOVE THE DOOR AND DOME LIGHT NEAR RECEPTION DESK.

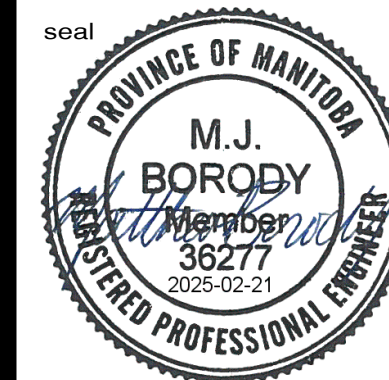
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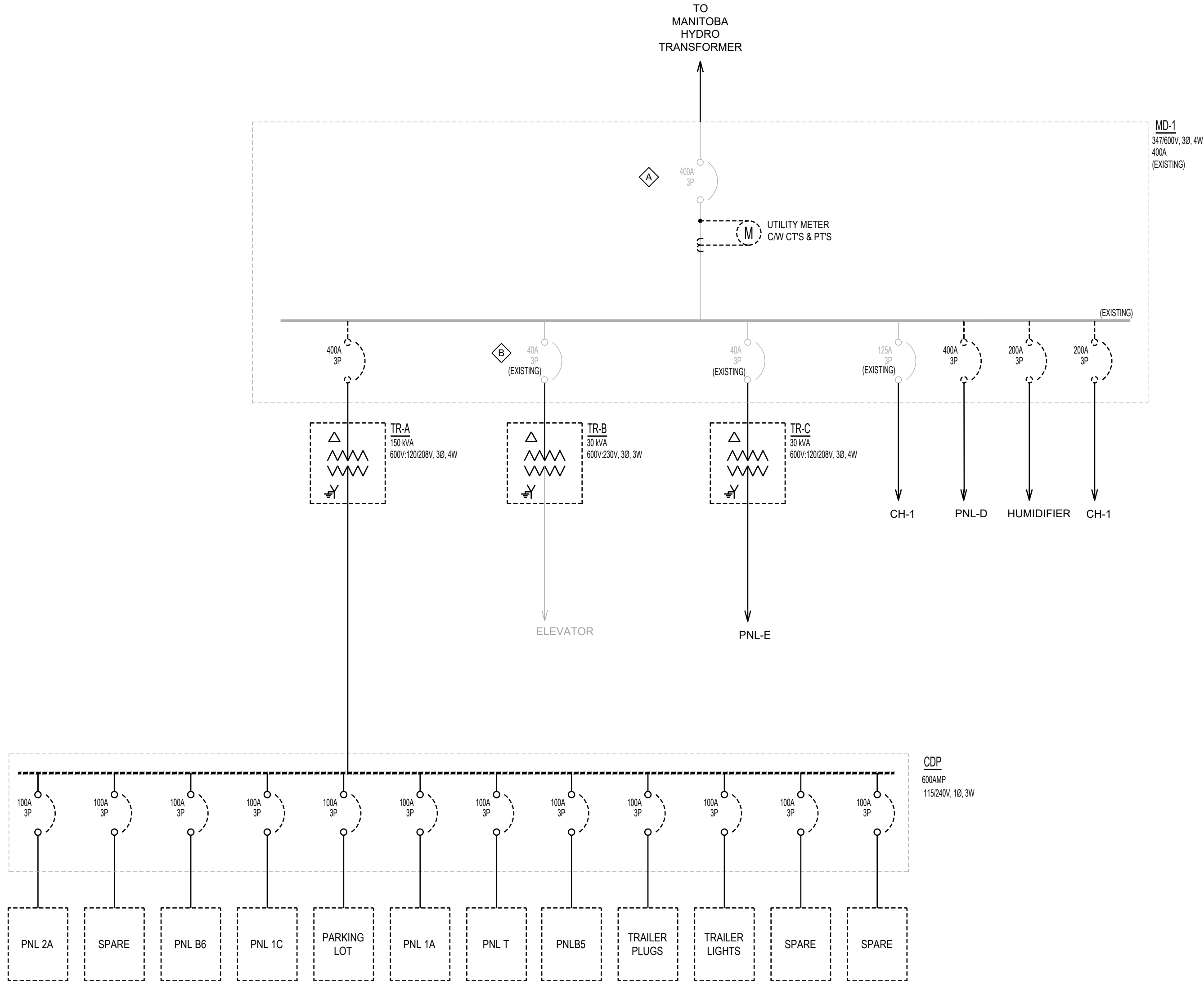
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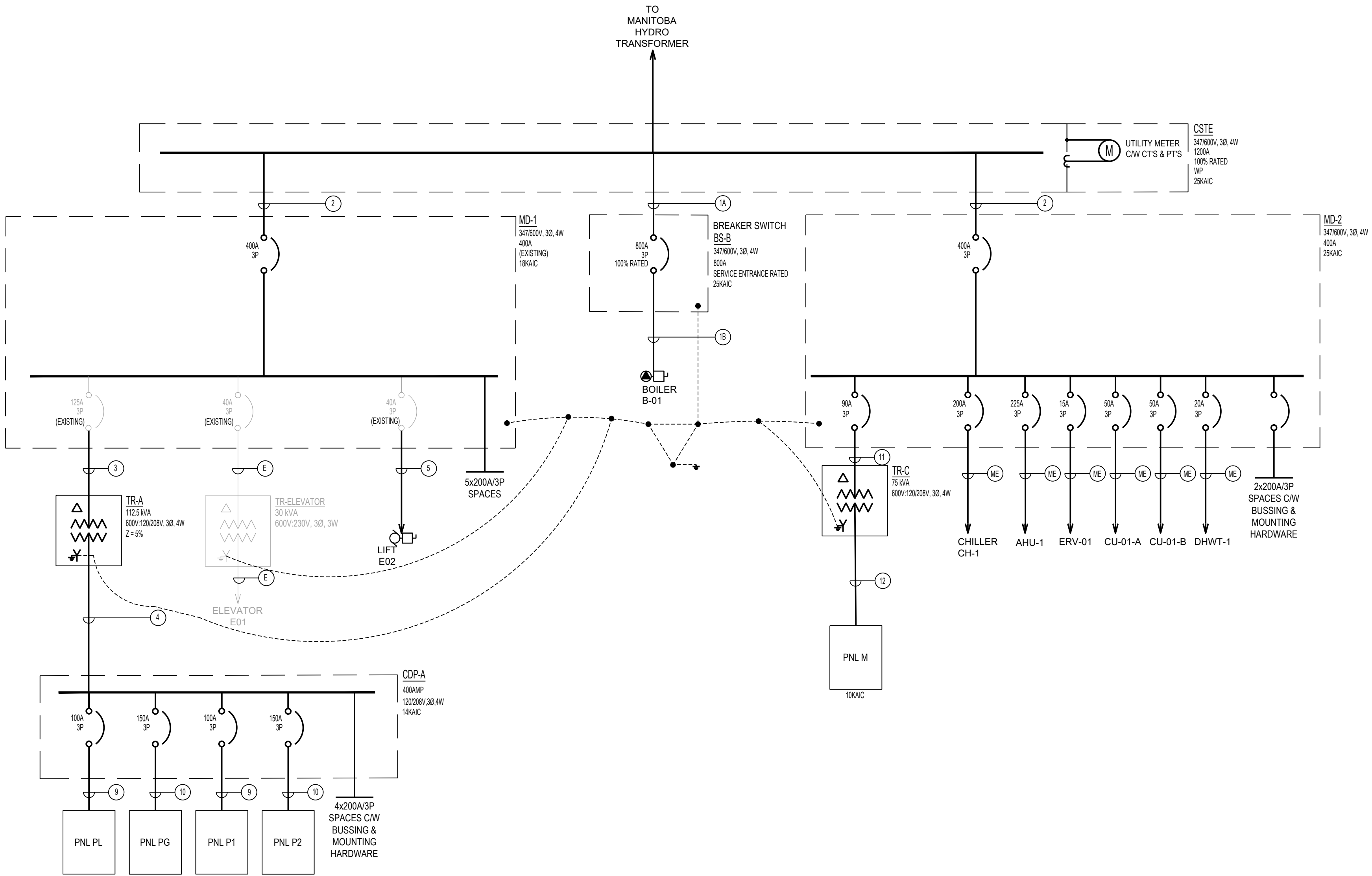
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**ES2.2**



1 SINGLE LINE DEMOLITION  
Scale: N.T.S

- DEMOLITION NOTES:
- DISCONNECT AND REMOVE EXISTING METERING FROM MD-1. PROVIDE CT BUS-JUMPERS ACROSS EXISTING METERING AND BLANK PLATE ACROSS METER BASE OPENING. COORDINATE REMOVAL OF METERING WITH MANITOBA HYDRO.
  - ELECTRICAL CONTRACTOR SHALL CONFIRM BREAKERS ARE SUITABLE FOR RE-USE. CONTRACTOR SHALL PROVIDE NEW BREAKERS AS REQUIRED.



2 SINGLE LINE- RENOVATION  
Scale: N.T.S

| FEEDER SCHEDULE |                                                                                                     |          |
|-----------------|-----------------------------------------------------------------------------------------------------|----------|
| TYPE            | DESCRIPTION                                                                                         | AMPACITY |
| 1A              | 4 x (4 - #350MCM RWU90 AL. IN 3" PVC CONDUIT C/W 4-1AL BOND AS PER DIAGRAM D11/DETAIL 4& TABLE D11B | 825      |
| 1B              | 4 x (4 - #250 RW90 Al in 3" CONDUIT C/W 4 - #2 AL BOND)                                             | 820      |
| 2               | 2 x (4 - #250MCM RWU90 Al in 3" PVC C. + 2 - #2 AL. BOND AS PER DIAGRAM D11/ DETAIL 2 & TABLE D11B) | 409      |
| 3               | 3 - #2/0 RW90 AL. in 1 1/2" CONDUIT C/W #4AL BOND                                                   | 135      |
| 4               | 2 x (4 - #250 RW90 Al. in 3" CONDUIT C/W 2-#2 AL BOND)                                              | 410      |
| 5               | 3 - #8 RW90 Al. in 3/4" CONDUIT C/W #8 AL BOND                                                      | 40       |
| 6               | 4 - #250MCM RW90 Al. in 3" CONDUIT C/W 2-#2 AL BOND                                                 | 205      |
| 7               | 4 - #8 RW90 in 1" CONDUIT C/W #10 CU BOND                                                           | 50       |
| 8               | 4 - #12 RW90 in 3/4" CONDUIT C/W #12 CU BOND                                                        | 15       |
| 9               | 4 - #3 RW90 Cu. in 1 1/4" CONDUIT C/W #8 CU BOND                                                    | 100      |
| 10              | 4 - #3/0 RW90 Al. in 2" CONDUIT C/W #4 AL BOND                                                      | 155      |
| 11              | 3 - #2 RW90 in 1" CONDUIT C/W #6 AL BOND                                                            | 90       |
| 12              | 4 - #500 RW90 Al. in 3" CONDUIT C/W #2 AL BOND                                                      | 310      |
| E               | EXISTING FEEDER TO REMAIN                                                                           |          |
| ME              | REFER TO DRAWING E5.1                                                                               |          |

4 FEEDER SCHEDULE  
Scale: N.T.S

| LOAD SUMMARY                        |                     |               |           |                    |
|-------------------------------------|---------------------|---------------|-----------|--------------------|
| TENANT AREA (ft²)                   | 37221.52            |               |           |                    |
| TENANT AREA (m²)                    | 3458.00             |               |           |                    |
| ITEM                                | CONNECTED LOAD (KW) | DEMAND FACTOR |           | REMARKS            |
|                                     |                     | FACTOR (%)    | LOAD (Kw) |                    |
| BASIC LOAD (50W/m²) (@930m²)        | 46.5                | 100%          | 46.5      | SMALL POWER & LTG  |
| BASIC LOAD (50W/m²)(remaining area) | 126.4               | 90%           | 113.76    |                    |
| MECHANICAL LOADS - CONTINUOUS       | 272.64              | 100%          | 272.64    | FANS/CU/CH/ERV/AHU |
| MECH LOADS - NON CONTINUOUS         | 2.82                | 80%           | 2.26      |                    |
| AIR CONDITIONING                    | 175.16              | 0%            |           | CH/CU              |
| ELEC SPACE HEATING                  | 670.7               | 100%          | 670.7     | HWT/BOILER         |
| TOTAL DEMAND LOAD (Kw)              |                     |               |           | 1105.858039        |
| CURRENT @ 600V/3PH (A)              |                     |               |           | 1065.4             |
| MIN. SERVICE REQUIRED               |                     |               |           | 1200               |

3 LOAD SUMMARY - RENOVATION  
Scale: N.T.S

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|--------------------------------------------------|------|----------|-----|---------------|------------|------|-----------|-------------------------------------------|
| PANEL                                            | A    |          |     |               |            |      | FED FROM: | CDP-A                                     |
|                                                  |      |          |     |               |            |      | MOUNTING: | SURFACE                                   |
|                                                  |      | VOLTAGE: |     | 120/208V/3Ø4W | 225A MAINS |      | POWER:    | NORMAL                                    |
|                                                  |      |          |     |               |            |      |           |                                           |
| DESCRIPTION                                      | LOAD | BRKR     | CCT | PHASE         | CCT        | BRKR | LOAD      | DESCRIPTION                               |
| RECORD STORAGE 001007 LIGHTING                   | 892  | 15       | 1   | A             | 2          | 15   | 791       | LIGHTING RM - 002/003/004/005/006/009/010 |
| LIGHTING RM - 008                                | 618  | 15       | 3   | B             | 4          | 15   | 764       | LIGHTING RM - 013/012/011/022/023/024/025 |
| LIGHTING RM - 016/017/018/021                    | 384  | 15       | 5   | C             | 6          | 15   | 721       | LIGHTING RM - 019/020/027                 |
| BASEMENT - EX - 1BU-1                            | 404  | 15       | 7   | A             | 8          | 15   | 279       | LIGHTING STAIR S02                        |
| LIGHTING STAIR S03                               | 233  | 15       | 9   | B             | 10         | 15   | 159       | LIGHTING STAIR S01                        |
| LIGHTING RM - 107/108/109/110                    | 373  | 15       | 11  | C             | 12         | 15   | 926       | LIGHTING RM - 102/103                     |
| LIGHTING RM - 106/104                            | 926  | 15       | 13  | A             | 14         | 15   | 1200      | LIGHTING ENTERANCE/105                    |
| LIGHTING VAULT L1                                | 867  | 15       | 15  | B             | 16         | 15   | 1156      | LIGHTING VAULT L1                         |
| LIGHTING VAULT L2                                | 916  | 15       | 17  | C             | 18         | 15   | 1156      | LIGHTING VAULT L2                         |
| LIGHTING RM - 117/118/119/111/112/113/114        | 863  | 15       | 19  | A             | 20         | 15   | 766       | LEVEL - 1 - EX - 1BU-1/ ELEVATOR LIGHT    |
| LIGHTING RM - 212/213/214/152/162/172/182/19/220 | 1025 | 15       | 21  | B             | 22         | 15   | 1021      | LIGHTING RM 202/ ENTRANCE-L2              |
| LIGHTING RM 202                                  | 1026 | 15       | 23  | C             | 24         | 15   | 1026      | LIGHTING RM 202                           |
| LIGHTING VAULT L3                                | 867  | 15       | 25  | A             | 26         | 15   | 1156      | LIGHTING VAULT L3                         |
| LIGHTING VAULT L4                                | 915  | 15       | 27  | B             | 28         | 15   | 1156      | LIGHTING VAULT L4                         |
| LIGHTING RM - 205/203/207/208/209/210/211        | 673  | 15       | 29  | C             | 30         | 15   | 378       | LEVEL -2 - EX - 1BU-1                     |
| LIGHTING STAIR S03                               | 557  | 15       | 31  | A             | 32         | 15   |           | SPARE                                     |
| SPARE                                            |      | 15       | 33  | B             | 34         | 15   |           | SPARE                                     |
| SPARE                                            |      | 15       | 35  | C             | 36         |      |           | SPACE                                     |
| SPACE                                            |      |          | 37  | A             | 38         |      |           | SPACE                                     |
| SPACE                                            |      |          | 39  | B             | 40         |      |           | SPACE                                     |
| SPACE                                            |      |          | 41  | C             | 42         |      |           | SPACE                                     |
|                                                  |      |          |     |               |            |      |           |                                           |
| TOTAL (kVA)                                      |      |          |     |               |            |      |           | 24.17                                     |

|                            |                |      |            |       |     |        |           |                                    |
|----------------------------|----------------|------|------------|-------|-----|--------|-----------|------------------------------------|
| PANEL                      | PG             |      |            |       |     |        | FED FROM: | CDP-A                              |
|                            |                |      |            |       |     |        | MOUNTING: | SURFACE                            |
| VOLTAGE:                   | 120/208V/3Ø/4W |      | 225A MAINS |       |     | POWER: | NORMAL    |                                    |
|                            |                |      |            |       |     |        |           |                                    |
| DESCRIPTION                | LOAD           | BRKR | CCT        | PHASE | CCT | BRKR   | LOAD      | DESCRIPTION                        |
| RM 001/010/013 RECEPTACLES | 1200           | 15   | 1          | A     | 2   | 15     | 1000      | RM E01/E02/016/017/011 RECEPTACLES |
| RM 018/019 RECEPTACLES     | 1000           | 15   | 3          | B     | 4   | 15     | 1200      | RM 020/027 RECEPTACLES             |
| RM 008/021.1/021.2/024     | 1200           | 15   | 5          | C     | 6   | 15     | 1200      | RM 007/008/025 RECEPTACLES         |
| RM 005/003/002             | 1200           | 15   | 7          | A     | 8   | 15     | 500       | PEGASUS 200 ACCESS CONTROL         |
| BOSCH SECURITY PANEL       | 500            | 15   | 9          | B     | 10  | 15     | 500       | AIPHONE I X HEAD END               |
| PARKING RECEPTACLES        | 650            | 15   | 11         | C     | 12  | 15     | 200       | FIRE ALARM PANEL                   |
| RM023 RECEPTACLES          | 600            | 15   | 13         | A     | 14  | 15     | 200       | DDC PANEL                          |
| TELEPHONE DEMARC RECEP     |                | 15   | 15         | B     | 16  | 15     | 600       | RM 023 RECEPTACLES                 |
| DOOR OPERATOR              | 1200           | 15   | 17         | C     | 18  | 15     |           | EXTERIOR LIGHTING                  |
| PARKING RECEPTACLES        | 650            | 15   | 19         | A     | 20  | 15     | 200       | FIRE SMOKE DAMPER                  |
| PARKING RECEPTACLES        | 650            | 15   | 21         | B     | 22  | 15     | 250       | FIRE SMOKE DAMPER                  |
| PARKING RECEPTACLES        | 650            | 15   | 23         | C     | 24  | 15     |           | SPARE                              |
| TELECOM BB.                |                | 20   | 25         | A     | 26  | 15     |           | SPARE                              |
| SPARE                      |                | 15   | 27         | B     | 28  | 20     |           | SPARE                              |
| SPARE                      |                | 15   | 29         | C     | 30  |        |           | SPACE                              |
| SPARE                      |                | 20   | 31         | A     | 32  |        |           | SPACE                              |
| SPACE                      |                |      | 33         | B     | 34  |        |           | SPACE                              |
| SPACE                      |                |      | 35         | C     | 36  |        |           | SPACE                              |
| SPACE                      |                |      | 37         | A     | 38  |        |           | SPACE                              |
| SPACE                      |                |      | 39         | B     | 40  |        |           | SPACE                              |
| SPACE                      |                |      | 41         | C     | 42  |        |           | SPACE                              |
|                            |                |      |            |       |     |        |           |                                    |
| TOTAL (kVA)                |                |      |            |       |     |        |           | 15.35                              |

|                              |                |  |            |       |     |            |         |       |       |                              |
|------------------------------|----------------|--|------------|-------|-----|------------|---------|-------|-------|------------------------------|
| PANEL                        | P1             |  |            |       |     | FED FROM:  | CDP-A   |       |       |                              |
|                              |                |  |            |       |     | MOUNTIN G: | SURFACE |       |       |                              |
| VOLTAGE:                     | 120/208V/3Ø/4W |  | 225A MAINS |       |     | POWER:     | NORMAL  |       |       |                              |
|                              |                |  |            |       |     |            |         |       |       |                              |
| DESCRIPTION                  |                |  | LOA D      | BRK R | CCT | PHASE      | CCT     | BRK R | LOA D | DESCRIPTION                  |
| MEETING 107                  |                |  | 800        | 15    | 1   | A          | 2       | 15    | 120 0 | OFFICE 108/109/110           |
| CORRIDOR                     |                |  | 600        | 15    | 3   | B          | 4       | 15    | 120 0 | RESEARCH AREA 106            |
| RECEPTION 105                |                |  | 100 0      | 15    | 5   | C          | 6       | 15    | 400   | WASHROOM 101/102             |
| MULTI-PURPOSE 103/104        |                |  | 120 0      | 15    | 7   | A          | 8       | 15    | 120 0 | RM 111 RECEPTACLES           |
| FRIDGE                       |                |  | 800        | 15    | 9   | B          | 10      | 15    | 100 0 | KITCHEN 112                  |
| MICROWAVE                    |                |  | 120 0      | 15    | 11  | C          | 12      | 15    | 400   | WASHROOM 113/114             |
| VAULT L1                     |                |  | 800        | 15    | 13  | A          | 14      | 15    | 800   | VAULT L-1                    |
| RETRIEVAL 117 RECEPTACLE     |                |  | 800        | 15    | 15  | B          | 16      | 15    | 600   | CORR 118/STAIR S0/119        |
| RM 120/S02 RECEPTACLES       |                |  | 600        | 15    | 17  | C          | 18      | 15    | 120 0 | VAULT L-2                    |
| POJECTOR                     |                |  | 120 0      | 15    | 19  | A          | 20      | 15    | 800   | MULTI-PURPOSE 103 RECEPTACLE |
| MULTI-PURPOSE 103 RECEPTACLE |                |  | 800        | 15    | 21  | B          | 22      | 15    | 800   | MULTI-PURPOSE 103 RECEPTACLE |
| MULTI-PURPOSE 103 RECEPTACLE |                |  | 800        | 15    | 23  | C          | 24      | 15    | 800   | MULTI-PURPOSE 103 RECEPTACLE |
| DOOR OPERATOR                |                |  | 120 0      | 15    | 25  | A          | 26      | 120 0 |       | DOOR OPERATOR                |
| DOOR OPERATOR                |                |  | 120 0      | 15    | 27  | B          | 28      | 15    |       | SPARE                        |
| FIRE SMOKE DAMPER            |                |  | 200        | 15    | 29  | C          | 30      | 15    |       | SPARE                        |
| FIRE SMOKE DAMPER            |                |  | 200        | 15    | 31  | A          | 32      | 15    |       | SPARE                        |
| SPARE                        |                |  |            | 15    | 33  | B          | 34      | 20    |       | SPARE                        |
| SPARE                        |                |  |            | 15    | 35  | C          | 36      |       |       | SPACE                        |
| SPARE                        |                |  |            | 20    | 37  | A          | 38      |       |       | SPACE                        |
| SPACE                        |                |  |            |       | 39  | B          | 40      |       |       | SPACE                        |
| SPACE                        |                |  |            |       | 41  | C          | 42      |       |       | SPACE                        |
|                              |                |  |            |       |     |            |         |       |       |                              |
| TOTAL (kVA)                  |                |  |            |       |     |            |         |       |       | 23.80                        |

|                              |                |      |            |       |     |      |           |                        |
|------------------------------|----------------|------|------------|-------|-----|------|-----------|------------------------|
| PANEL                        | P2             |      |            |       |     |      | FED FROM: | CDP-A                  |
|                              |                |      |            |       |     |      | MOUNTING: | SURFACE                |
| VOLTAGE:                     | 120/208V/3Ø/4W |      | 225A MAINS |       |     |      | POWER:    | NORMAL                 |
|                              |                |      |            |       |     |      |           |                        |
| DESCRIPTION                  | LOAD           | BRKR | CCT        | PHASE | CCT | BRKR | LOAD      | DESCRIPTION            |
| MEETING ROOM 215 RECEPTACLES | 1200           | 15   | 1          | A     | 2   | 15   | 1200      | OFFICE 216/217/218     |
| OFFICE 214/213/212           | 1200           | 15   | 3          | B     | 4   | 15   | 800       | OFFICE 219/220         |
| CORRIDOR                     | 800            | 15   | 5          | C     | 6   | 15   | 600       | RECEPTACLES AREA 202   |
| STAFF 201                    | 1200           | 15   | 7          | A     | 8   | 15   | 800       | DIGITIZATION 203       |
| CONSERVATION 205             | 800            | 15   | 9          | B     | 10  | 15   | 1200      | AIRLOCK 204/VAULT 206  |
| VAULT L3                     | 800            | 15   | 11         | C     | 12  | 15   | 400       | STAFF LOUNGE 207       |
| KITCHEN                      | 600            | 15   | 13         | A     | 14  | 15   | 800       | FRIDGE                 |
| MICROWAVE                    | 1200           | 15   | 15         | B     | 16  | 15   | 600       | AIRLOCK L4 221         |
| VAULT L4 222                 | 800            | 15   | 17         | C     | 18  | 15   | 800       | VAULT L4 222/STAIR S02 |
| ROOF TOP RECEPTACLE          | 200            | 15   | 19         | A     | 20  | 15   | 1200      | DOOR OPERATOR          |
| FIRE SMOKE DAMPER            | 200            | 15   | 21         | B     | 22  | 15   |           | SPARE                  |
| FIRE SMOKE DAMPER            | 200            | 15   | 23         | C     | 24  | 15   |           | SPARE                  |
| FIRE SMOKE DAMPER            | 150            | 15   | 25         | A     | 26  |      |           | SPACE                  |
| DOOR OPERATOR                | 1200           | 15   | 27         | B     | 28  |      |           | SPACE                  |
| SPARE                        |                | 15   | 29         | C     | 30  |      |           | SPACE                  |
| SPACE                        |                | 20   | 31         | A     | 32  |      |           | SPACE                  |
| SPACE                        |                |      | 33         | B     | 34  |      |           | SPACE                  |
| SPACE                        |                |      | 35         | C     | 36  |      |           | SPACE                  |
| SPACE                        |                |      | 37         | A     | 38  |      |           | SPACE                  |
| SPACE                        |                |      | 39         | B     | 40  |      |           | SPACE                  |
| SPACE                        |                |      | 41         | C     | 42  |      |           | SPACE                  |
|                              |                |      |            |       |     |      |           |                        |
| TOTAL (kVA)                  |                |      |            |       |     |      |           | 16.00                  |

|                          |      |      |     |       |     |      |           |                            |
|--------------------------|------|------|-----|-------|-----|------|-----------|----------------------------|
| PANEL                    | M    |      |     |       |     |      | FED FROM: | MD-2                       |
|                          |      |      |     |       |     |      | MOUNTING: | SURFACE                    |
|                          |      |      |     |       |     |      | POWER:    | NORMAL                     |
|                          |      |      |     |       |     |      |           |                            |
| DESCRIPTION              | LOAD | BRKR | CCT | PHASE | CCT | BRKR | LOAD      | DESCRIPTION                |
| FC-01                    | 901  | 15   | 1   | A     | 2   | 15   | 721       | FC-16, FC-17               |
|                          | 901  |      | 3   | B     | 4   |      | 721       |                            |
| FC-02                    | 1081 | 15   | 5   | C     | 6   | 15   | 1081      | FC-18, FC-19               |
|                          | 1081 |      | 7   | A     | 8   |      | 1081      |                            |
| FC03, FC04               | 721  | 15   | 9   | B     | 10  | 15   | 1081      | FC-20-1                    |
|                          | 721  |      | 11  | C     | 12  |      | 1081      |                            |
| FC05, FC06               | 1081 | 15   | 13  | A     | 14  | 15   | 1081      | FC-20-2                    |
|                          | 1081 |      | 15  | B     | 16  |      | 1081      |                            |
| FC07, FC09               | 901  | 15   | 17  | C     | 18  | 15   | 901       | FC-21-1                    |
|                          | 901  |      | 19  | A     | 20  |      | 901       |                            |
| FC-10-1                  | 1081 | 15   | 21  | B     | 22  | 15   | 901       | FC-21-2                    |
|                          | 1081 |      | 23  | C     | 24  |      | 901       |                            |
| FC-10-2                  | 1081 | 15   | 25  | A     | 26  | 15   | 1081      | FC-22, FC-23, FC-24        |
|                          | 1081 |      | 27  | B     | 28  |      | 1081      |                            |
| FC-11                    | 1261 | 15   | 29  | C     | 30  | 15   | 1441      | FC-25, FC-26, FC-27        |
|                          | 1261 |      | 31  | A     | 32  |      | 1441      |                            |
| FC-12                    | 721  | 15   | 33  | B     | 34  | 15   | 901       | FC-28                      |
|                          | 721  |      | 35  | C     | 36  |      | 901       |                            |
| FC-13, FC-14, FC-15      | 1081 | 15   | 37  | A     | 38  | 15   | 1620      | FC-29, FC-30, FC-31, FC-32 |
|                          | 1081 |      | 39  | B     | 40  |      | 1620      |                            |
| FF-100-1                 | 75   | 15   | 41  | C     | 42  | 15   | 1261      | FC-33, FC-34               |
| FF-100-2                 | 75   | 15   | 43  | A     | 44  |      | 1261      |                            |
| FF-S03-B-1               | 50   | 15   | 45  | B     | 46  | 15   |           |                            |
| FF-S01-2-1               | 149  | 15   | 47  | C     | 48  | 15   |           | FC-08-1, FC-08-2           |
| SP-01/SP-02              |      | 15   | 49  | A     | 50  | 15   |           | FF-102-1                   |
| SP-03/SP-4               |      |      | 51  | B     | 52  | 15   |           |                            |
| SP-07/SP-08              |      | 15   | 53  | C     | 54  | 20   |           | FF-S02-1-2                 |
|                          |      | 15   | 55  | A     | 56  |      |           |                            |
| FF-S01-2-2               |      | 20   | 57  | B     | 58  | 15   |           | SPARE                      |
| FF-S02-1-2               |      | 15   | 59  | C     | 60  | 15   |           |                            |
| BOILER B-02              |      | 15   | 61  | A     | 62  | 15   |           | SPARE                      |
| DHWT-1                   |      | 15   | 63  | B     | 64  |      |           |                            |
| CONDENSATE PUMPS 01 - 10 |      | 15   | 65  | C     | 66  | 15   |           | SPARE                      |
| CONDENSATE PUMPS 11-19   |      | 15   | 67  | A     | 68  | 15   |           | SPARE                      |
| CONDENSATE PUMPS 20-29   |      | 15   | 69  | B     | 70  | 20   |           | SPARE                      |
| CONDENSATE PUMPS 30-34   |      | 15   | 71  | C     | 72  |      |           | SPACE                      |
| COMP-1                   |      | 30   | 73  | A     | 74  |      |           | SPACE                      |
|                          |      |      | 75  | B     | 76  |      |           | SPACE                      |
|                          |      |      | 77  | C     | 78  |      |           | SPACE                      |
| SPACE                    |      |      | 79  | A     | 80  |      |           | SPACE                      |
| SPACE                    |      |      | 81  | B     | 82  |      |           | SPACE                      |
| SPACE                    |      |      | 83  | C     | 84  |      |           | SPACE                      |
|                          |      |      |     |       |     |      |           |                            |
| TOTAL (kVA)              |      |      |     |       |     |      |           | 44.96                      |

| EMERGENCY LUMINAIRE SCHEDULE |              |                  |          |       |       |                                                           |
|------------------------------|--------------|------------------|----------|-------|-------|-----------------------------------------------------------|
| TYPE                         | MANUFACTURER | CATALOGUE NO.    | VOLTS    | LAMPS | WATTS | REMARKS                                                   |
| BU-1                         | STANPRO      | 24350-2N4LRWH    | 120      | LED   | 350W  | STEEL BATTERY UNIT C/W DOUBLE REMOTE HEAD                 |
| RH-1                         | STANPRO      | M-2-24V-6W-LA-WH | 24       | LED   | 6W    | DOUBLE REMOTE HEAD                                        |
| EX-1                         | STANPRO      | RMQ-1-BK-WH-UDC  | 120 / 24 | LED   | 2W    | UNIVERSAL EXIT LIGHT SINGLE FACE WALL MOUNT C/W WIREGUARD |

| LUMINAIRE SCHEDULE |                                                                                                               |              |       |           |             |                      |        |                   |                                                                        |  |
|--------------------|---------------------------------------------------------------------------------------------------------------|--------------|-------|-----------|-------------|----------------------|--------|-------------------|------------------------------------------------------------------------|--|
| TYPE               | DESCRIPTION                                                                                                   | MOUNTING     | VOLTS | LAMP TYPE | COLOUR TEMP | TOTAL WATTS / LUMENS | DRIVER | MANUFACTURER      | CATALOGUE NO.                                                          |  |
| 1                  | SUSPENDED ZL1N 5,000 LUMENS FROSTED DIFFUSER MVOLT 3,500 K 80CRI                                              | SUSPENDED    | 120V  | LED       | 3500K       | 34.31                | 0-10V  | LITHONIA LIGHTING | ZL1N L48 5000LM FST<br>MVOLT 35K 80 CRI<br>NLTAIR2 RLSXR10 WH HC36 M12 |  |
| 1A                 | SUSPENDED ZL1N 5,000 LUMENS FROSTED DIFFUSER MVOLT 3,500 K 80CRI INTEGRATED WITH OCCUPANCY SENSOR             | SUSPENDED    | 120V  | LED       | 3500K       | 34.31                | 0-10V  | LITHONIA LIGHTING | ZL1N L48 5000LM FST<br>MVOLT 35K 80 CRI<br>NLTAIR2 RLSXR10 WH L5XR     |  |
| 1B                 | ZL1N 5,000 LUMENS FROSTED DIFFUSER MVOLT 3,500 K 80CRI                                                        | SURFACE      | 120V  | LED       | 3500K       | 34.31                | 0-10V  | LITHONIA LIGHTING | ZL1N L48 5000LM FST<br>MVOLT 35K 80 CRI<br>NLTAIR2 RLSXR10 WH          |  |
| 1C                 | ZL1N 5,000 LUMENS FROSTED DIFFUSER MVOLT 3,500 K 80CRI INTEGRATED WITH OCCUPANCY SENSOR                       | SURFACE      | 120V  | LED       | 3500K       | 34.31                | 0-10V  | LITHONIA LIGHTING | ZL1N L48 5000LM FST<br>MVOLT 35K 80 CRI<br>NLTAIR2 RLSXR10 WH L5XR     |  |
| 2                  | ZL1N 48" 3,000 LUMENS FROSTED DIFFUSER MVOLT 3,500 K 80CRI                                                    | SUSPENDED    | 120V  | LED       | 3500K       | 25.21                | 0-10V  | LITHONIA LIGHTING | ZL1N L48 3000LM FST<br>MVOLT 35K 80 CRI<br>NLTAIR2 RLSXR10 WH HC36 M12 |  |
| 3                  | ZL1N 48" 7,000 LUMENS FROSTED DIFFUSER MVOLT 3,500 K 80CRI                                                    | SURFACE      | 120V  | LED       | 3500K       | 52.07                | 0-10V  | LITHONIA LIGHTING | ZL1N L48 7000LM FST<br>MVOLT 35K 80 CRI<br>NLTAIR2 RLSXR10 WH L5XR     |  |
| 4                  | 2X2 BLT 4800, CURVED RIBBED, 82CRI 3500 K,                                                                    | RECESSED     | 120V  | LED       | 3500K       | 42.86                | 0-10V  | LITHONIA LIGHTING | 2BLT2 48L ADPT EZ1 LP835 NLTAIR2 RES7PDT                               |  |
| 5                  | 2X4 BLT 6000, CURVED RIBBED, 82CRI 3500 K,                                                                    | RECESSED     | 120V  | LED       | 3500K       | 46.6                 | 0-10V  | LITHONIA LIGHTING | 2BLT4 60L ADPT EZ1 LP835 NLTAIR2 RES7PDT                               |  |
| 5                  | 2X4 BLT 6000, CURVED RIBBED, 82CRI 3500 K, INTEGRATED OCCUPANCY SENSOR                                        | RECESSED     | 120V  | LED       | 3500K       | 46.6                 | 0-10V  | LITHONIA LIGHTING | 2BLT4 60L ADPT EZ1 LP835 NLTAIR2 RES7PDT NES7                          |  |
| 6                  | FLEXIBLE LINEAR LED STRIP LIGHT,                                                                              | STRIP LIGHT  | 120V  | LED       | 3500K       | 100                  | 1-10V  | VEROBOARD         | VBDFS-L2835-10-120-24-NS                                               |  |
| 7                  | EXISTING LIGHTING                                                                                             | PENDENT      | 120V  | LED       | 3500K       |                      | 0-10V  |                   |                                                                        |  |
| 8                  | CP 4069 CARLTON 42" BOWL, STEM SUSPENSION                                                                     | PENDENT      | 120V  | LED       | 3500K       | 271.8                | 0-10V  | CARLTON           |                                                                        |  |
| 9                  | BLWP 4FT 4800 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 3500K CCT, 80CRI                                  | SURFACE      | 120V  | LED       | 3500K       | 39.81                | 0-10V  | LITHONIA LIGHTING | BLWP4 48L ADP EZ1 LP835 NLTAIR2 RES7PDT                                |  |
| 9A                 | BLWP 4FT 4800 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 3500K CCT, 80CRI WITH INTEGRATED OCCUPANCY SENSOR | SURFACE      | 120V  | LED       | 3500K       | 39.81                | 0-10V  | LITHONIA LIGHTING | BLWP4 48L ADP EZ1 LP835 NLTAIR2 RES7PDT ES7                            |  |
| 10                 | 4 INCH LBR DOWNLIGHT 1000LM 4000K CLEAR SEM-SPECULAR WIDE 80 CRI                                              | RECESSED     | 120V  | LED       | 4000K       | 13.06                | 0-10V  | LITHONIA LIGHTING | LBR4 ALO1 (1000LM)<br>SWW1 (4000K) AR LSS<br>WD MVOLT UGZ1<br>NLTAIR2  |  |
| 11                 | IVO ROUND CYLINDER SURFACE MOUNT                                                                              | SURFACE      | 120V  | LED       | 4000K       | 13.32                | 0-10V  | GOTHAM            | IVO4CYL 9C D 15LM 35K 80 CRI MWD MIN1 MVOLT ZT L5                      |  |
| 12                 | CONTEMPORARY SQUARE 4FT, SWITCHABLE WHITE CCT                                                                 | WALL MOUNTED | 120V  | LED       | 3500K       | 35.18                | 0-10V  | LITHONIA LIGHTING | FMVCSLS 48IN MVOLT 30K35K40K BN                                        |  |
| 13                 | TZL1N 96" 6,000 LUMENS FROSTED DIFFUSER MVOLT 3,500 K 80CRI                                                   | RECESSED     | 120V  | LED       | 3500K       | 48.15                | 0-10V  | LITHONIA LIGHTING | TZL1N L96 6000LM FST<br>MVOLT 35K 80 CRI<br>NLTAIR2<br>RLSXR10 WH      |  |
| 13A                | TZL1N 96" 6,000 LUMENS FROSTED DIFFUSER MVOLT 3,500 K 80CRI                                                   | RECESSED     | 120V  | LED       | 3500K       | 48.15                | 0-10V  | LITHONIA LIGHTING | TZL1N L96 6000LM FST<br>MVOLT 35K 80 CRI<br>NLTAIR2<br>RLSXR10 WH L5XR |  |
| 14                 | 1X4 BLT 6000, CURVED RIBBED, 82CRI 3500 K,                                                                    | RECESSED     | 120V  | LED       | 3500K       | 38.8                 | 0-10V  | LITHONIA LIGHTING | 1BLT4 48L ADPT EZ1 LP835 NLTAIR2                                       |  |
| 14A                | 1X4 BLT 6000, CURVED RIBBED, 82CRI 3500 K,                                                                    | RECESSED     | 120V  | LED       | 3500K       | 38.8                 | 0-10V  | LITHONIA LIGHTING | 2BLT4 60L ADPT EZ1 LP835 NLTAIR2 RES7PDT                               |  |
| 15                 | CASPER BEAM, 96L, SQUARE, CUSTOM CONFIGURATION,3500K                                                          | SUSPENDED    | 120V  | LED       | 3500K       | 51.52                | 0-10V  | CASPER LIGHTING   | COL-CASPR-BEAM-96L-COS-STD-350CK-650LM-P01-STD0-J<br>B-RRWPC WH        |  |
| 16                 | WALL LIGHT FOR ELEVATOR PIT                                                                                   | WALL MOUNTED | 120V  | LED       | 4000K       | 15                   | 0-10V  | LITHONIA LIGHTING | OLVTWM                                                                 |  |
| 17                 | HIGH PERFORMANCE 2" APERTURE (HP-2)                                                                           | SUSPENDED    | 120V  | LED       | 3500K       | 95                   | 0-10V  | FINELITE          | HP-P-D-36"-S-S-835-DSO-120- FC-10%                                     |  |

| LIGHTING CONTROLS                                                                   |                              |                  |                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE                                                                                | MANUFACTURER                 | CATALOGUE #      | DESCRIPTION                                                                                                                                                                           |
|  | ACUTY BRANDS / nLight        | NCM PDT ADCX RJB | LOW VOLTAGE CEILING MOUNT SENSOR, PASSIVE DUAL TECHNOLOGY, EXTENDED RANGE 360 DEGREE LENS, PHOTOCONTROL, W/ AUTO DIMMING, 0-10V OUTPUT PROVIDED BY OTHER DEVICE(S), REAR RJ-45 PORTS. |
|  | ACUTY BRANDS / SENSOR SWITCH | WSXA PDT XX      | WALL SWITCH SENSOR, PASSIVE DUAL TECHNOLOGY                                                                                                                                           |
|  | ACUTY BRANDS / nLight        | NPODMA DX XX     | Nlight WIRED AESTHETIC WALLPOD, RAISE/LOWER DIMMING                                                                                                                                   |

ISSUED FOR CONSTRUCTION



drawn by  
MK  
approved by  
MJB  
date  
FEB 21 2025



CITY ARCHIVES BUILDING  
REDEVELOPMENT  
380 WILLIAM AVENUE - WINNIPEG, MANITOBA

project  
2624  
sheet no.

E5.1

| MOTOR LIST |         |                                      |                |             |       |         |        |         |         |          |              |             |          |      |       |         |         |        |         |      |    |    |         |     |
|------------|---------|--------------------------------------|----------------|-------------|-------|---------|--------|---------|---------|----------|--------------|-------------|----------|------|-------|---------|---------|--------|---------|------|----|----|---------|-----|
| TAG        | SUB TAG | DESCRIPTION                          | LOCATION       | POWER       |       |         |        |         |         |          | WIRING       |             |          |      |       |         | STARTER |        |         |      |    |    | REMARKS |     |
|            |         |                                      |                | VOLTAGE [V] | PHASE | HP      | MOTORS | FLA [A] | MCA [A] | MOCp [A] | FEEDER       | FEEDER TYPE | CONDUIT  | BRKR | POLES | CCT     | TYPE    | SUPPLY | INSTALL | FUNC | PL | PB |         | HOA |
| AHU-1      |         | AIR HANDLER WITH HUMIDITY CONTROL    | ROOF           | 600         | 3     | 181.6kW |        | 158.26  | 197.83  | 200.0    | 3-#3/0       | RW90        | 2" EMT   | 200A | 3P    | MD-2    | PACK    |        |         |      |    |    |         |     |
| ERV-01     |         | DUAL CORE ENERGY RECOVERY VENTILATOR | MECHANICAL 019 | 600         | 3     | 3HP     | 2      | 27      | 34.00   | 40.0     | 3-#8         | RW90        | 1" EMT   | 40A  | 3P    | MD-2    | PACK    |        |         |      |    |    |         |     |
| CU-01-A    |         | CONDENSING UNIT                      | ROOF           | 600         | 3     |         |        |         | 26.40   | 36.7     | 3-#10        | RW90        | 3/4" EMT | 40A  | 3P    | MD-2    | MAG     |        |         |      |    |    |         |     |
| CU-01-B    |         | CONDENSING UNIT                      | ROOF           | 600         | 3     |         |        |         | 38.30   | 53.8     | 3-#8         | RW90        | 1" EMT   | 60A  | 3P    | MD-2    | MAG     |        |         |      |    |    |         |     |
| CH-01      |         | AIR COOLED CHILLER W/ FREE COOLING   | OUTSIDE        | 600         | 3     | 108kW   |        |         | 131.00  | 156.0    | 3-#1/0       | RW90        | 2" EMT   | 150A | 3P    | MD-2    | PACK    |        |         |      |    |    |         |     |
| B-01       |         | ELECTRIC BOILER                      | MECHANICAL 020 | 600         | 3     | 660kW   |        | 635.84  | 794.80  | 800.0    | 3x3C #350MCM | TECK90      |          | 800A | 3P    | CSTE    | PACK    |        |         |      |    |    |         |     |
| B-02       |         | CONDENSING N. GAS FIRED BOILER       | MECHANICAL 021 | 120         | 1     | 0KW     |        |         | 16.00   | 20.0     | 3-#12        | RW90        | 3/4" EMT | 20A  | 1P    | M-61    | PACK    |        |         |      |    |    |         |     |
| DHWT-01    |         | ELECTRIC HOT WATER HEATER            | MECHANICAL 022 | 600         | 3     | 9KW     |        | 9       | 11.25   | 15.0     | 3-#12        | RW90        | 3/4" EMT | 15A  | 3P    | MD-2    |         |        |         |      |    |    |         |     |
| FC-01      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 5.00    | 5.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-1,3   |         |        |         |      |    |    |         |     |
| FC-02      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 6.00    | 7.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-5,7   |         |        |         |      |    |    |         |     |
| FC-03      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-9,11  |         |        |         |      |    |    |         |     |
| FC-04      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 2.00    | 4.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-9,11  |         |        |         |      |    |    |         |     |
| FC-05      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 3.00    | 4.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-13,15 |         |        |         |      |    |    |         |     |
| FC-06      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 3.00    | 4.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-13,15 |         |        |         |      |    |    |         |     |
| FC-07      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-17,19 |         |        |         |      |    |    |         |     |
| FC-08-1    |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | FIRST FLOOR    | 120         | 1     |         |        |         | 0.00    | 4.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 1P    | M-46,48 |         |        |         |      |    |    |         |     |
| FC-08-2    |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | FIRST FLOOR    | 120         | 1     |         |        |         | 0.00    | 4.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 1P    | M-46,48 |         |        |         |      |    |    |         |     |
| FC-09      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 3.00    | 4.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-17,19 |         |        |         |      |    |    |         |     |
| FC-10-1    |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 6.00    | 7.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-21,23 |         |        |         |      |    |    |         |     |
| FC-10-2    |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 6.00    | 7.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-21,23 |         |        |         |      |    |    |         |     |
| FC-11      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 7.00    | 7.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-29,31 |         |        |         |      |    |    |         |     |
| FC-12      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 4.00    | 4.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-33,35 |         |        |         |      |    |    |         |     |
| FC-13      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-37,39 |         |        |         |      |    |    |         |     |
| FC-14      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-37,39 |         |        |         |      |    |    |         |     |
| FC-15      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-37,39 |         |        |         |      |    |    |         |     |
| FC-16      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-2,4   |         |        |         |      |    |    |         |     |
| FC-17      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-2,4   |         |        |         |      |    |    |         |     |
| FC-18      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 3.00    | 3.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-6,8   |         |        |         |      |    |    |         |     |
| FC-19      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | BASEMENT       | 208         | 1     |         |        |         | 3.00    | 7.5      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-6,8   |         |        |         |      |    |    |         |     |
| FC-20-1    |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 6.00    | 7.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-10,12 |         |        |         |      |    |    |         |     |
| FC-20-2    |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 6.00    | 7.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-10,12 |         |        |         |      |    |    |         |     |
| FC-21-1    |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 5.00    | 5.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-18,20 |         |        |         |      |    |    |         |     |
| FC-21-2    |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 5.00    | 5.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-22,24 |         |        |         |      |    |    |         |     |
| FC-22      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-26,28 |         |        |         |      |    |    |         |     |
| FC-23      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-26,28 |         |        |         |      |    |    |         |     |
| FC-24      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-26,28 |         |        |         |      |    |    |         |     |
| FC-25      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-30,32 |         |        |         |      |    |    |         |     |
| FC-26      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-30,32 |         |        |         |      |    |    |         |     |
| FC-27      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 4.00    | 4.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-30,32 |         |        |         |      |    |    |         |     |
| FC-28      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 5.00    | 5.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-34,36 |         |        |         |      |    |    |         |     |
| FC-29      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 3.00    | 3.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-38,40 |         |        |         |      |    |    |         |     |
| FC-30      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-38,40 |         |        |         |      |    |    |         |     |
| FC-31      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-38,40 |         |        |         |      |    |    |         |     |
| FC-32      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 2.00    | 2.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-38,40 |         |        |         |      |    |    |         |     |
| FC-33      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 4.00    | 3.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-42,44 |         |        |         |      |    |    |         |     |
| FC-34      |         | 4-PIPE HYDRONIC DUCTED FAN COIL      | SECOND FLOOR   | 208         | 1     |         |        |         | 3.00    | 3.0      | 3-#12        | RW90        | 3/4" EMT | 15A  | 2P    | M-42,44 |         |        |         |      |    |    |         |     |

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E5.1

MOTOR LIST

Scale: N.T.S

ISSUED FOR CONSTRUCTION

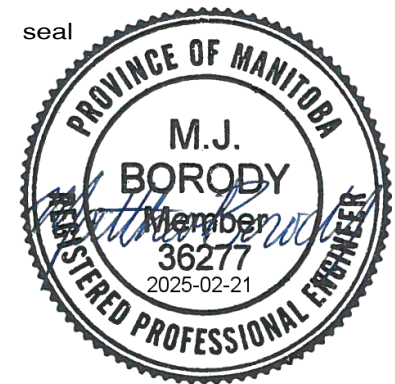




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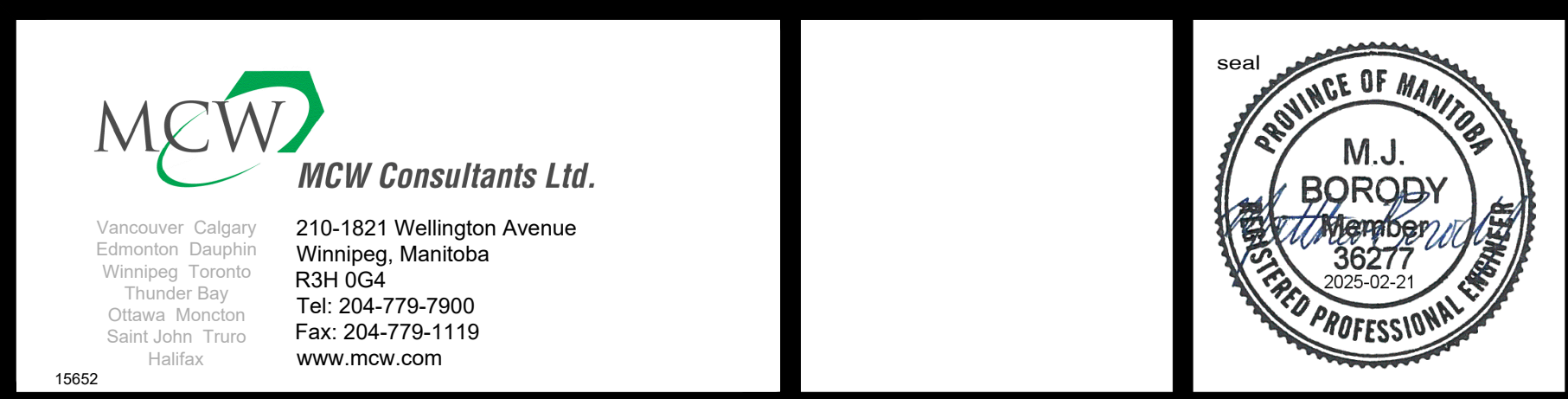
E5.2

| MOTOR LIST |         |                                       |                 |             |       |      |        |         |         |          |        |             |          |      |       |            |         |        |               |      |    |    |         |     |
|------------|---------|---------------------------------------|-----------------|-------------|-------|------|--------|---------|---------|----------|--------|-------------|----------|------|-------|------------|---------|--------|---------------|------|----|----|---------|-----|
| TAG        | SUB TAG | DESCRIPTION                           | LOCATION        | POWER       |       |      |        |         |         |          | WIRING |             |          |      |       |            | STARTER |        |               |      |    |    | REMARKS |     |
|            |         |                                       |                 | VOLTAGE [V] | PHASE | HP   | MOTORS | FLA [A] | MCA [A] | MOCP [A] | FEEDER | FEEDER TYPE | CONDUIT  | BRKR | POLES | CCT        | TYPE    | SUPPLY | INSTALL       | FUNC | PL | PB |         | HOA |
| SP-01      |         | SUMP PUMP                             | BASEMENT        | 120         | 1     | 2/5  | 1      | 0.30    | 0.37    | 0.7      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-49       | PACK    | MECH   | WIRED BY ELEC |      |    |    |         |     |
| SP-02      |         | SUMP PUMP                             | BASEMENT        | 120         | 1     | 2/5  | 1      | 0.30    | 0.37    | 0.7      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-49       | PACK    | MECH   | WIRED BY ELEC |      |    |    |         |     |
| SP-03      |         | SUMP PUMP                             | BASEMENT        | 120         | 1     | 2/5  | 1      | 0.30    | 0.37    | 0.7      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-51       | PACK    | MECH   | WIRED BY ELEC |      |    |    |         |     |
| SP-04      |         | SUMP PUMP                             | BASEMENT        | 120         | 1     | 2/5  | 1      | 0.30    | 0.37    | 0.7      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-51       | PACK    | MECH   | WIRED BY ELEC |      |    |    |         |     |
| SP-07      |         | LIFT SUMP PUMP                        | BASEMENT        | 120         | 1     | 1/3  | 1      | 0.25    | 0.31    | 0.6      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-53       | PACK    | MECH   | WIRED BY ELEC |      |    |    |         |     |
| SP-08      |         | LIFT SUMP PUMP                        | BASEMENT        | 120         | 1     | 1/3  | 1      | 0.25    | 0.31    | 0.6      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-53       | PACK    | MECH   | WIRED BY ELEC |      |    |    |         |     |
| RP-01      |         | DOMESTIC HOT WATER RECIRCULATING PUMP | 027 ELECTRICAL  | 120         | 1     | 1/25 | 1      | 0.03    | 0.04    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-55       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-01     |         | FC-01 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-02     |         | FC-02 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-03     |         | FC-03 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-04     |         | FC-04 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-05     |         | FC-05 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-06     |         | FC-06 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-07     |         | FC-07 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-08-1   |         | FC-08-1 CONDENSATE PUMP               | FIRST FLOOR     | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-08-2   |         | FC-08-2 CONDENSATE PUMP               | FIRST FLOOR     | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-09     |         | FC-09 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-10-1   |         | FC-10-1 CONDENSATE PUMP               | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-10-2   |         | FC-10-2 CONDENSATE PUMP               | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-65       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-11     |         | FC-11 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-67       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-12     |         | FC-12 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-67       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-13     |         | FC-13 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-67       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-14     |         | FC-14 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-67       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-15     |         | FC-15 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-67       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-16     |         | FC-16 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-67       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-17     |         | FC-17 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-67       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-18     |         | FC-18 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-67       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-19     |         | FC-19 CONDENSATE PUMP                 | BASEMENT        | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-67       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-20-1   |         | FC-20-1 CONDENSATE PUMP               | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-67       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-20-2   |         | FC-20-2 CONDENSATE PUMP               | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-21-1   |         | FC-21-1 CONDENSATE PUMP               | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-21-2   |         | FC-21-2 CONDENSATE PUMP               | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-22     |         | FC-22 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-23     |         | FC-23 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-24     |         | FC-24 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-25     |         | FC-25 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-26     |         | FC-26 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-27     |         | FC-27 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-28     |         | FC-28 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-29     |         | FC-29 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-69       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-30     |         | FC-30 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-71       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-31     |         | FC-31 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-71       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-32     |         | FC-32 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-71       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-33     |         | FC-33 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-71       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| CON-34     |         | FC-34 CONDENSATE PUMP                 | SECOND FLOOR    | 120         | 1     | 1/30 | 1      | 0.02    | 0.03    | 0.1      | 3-#12  | RW90        | 3/4" EMT | 15A  | 1P    | M-71       | MAN     | ELEC   | ELEC          |      | *  | *  |         |     |
| COMP-01    |         | DRY PIPE SYSTEM AIR COMPRESSOR        | ELECTRICAL ROOM | 208         | 3     | 3    | 1      | 10.60   | 13.25   | 26.5     | 3-#12  | RW90        | 3/4" EMT | 30A  | 3P    | M-73,75,77 | MAG     | ELEC   | ELEC          | FVNR | *  |    | *       |     |

MOTOR LIST

Scale: N.T.S

ISSUED FOR CONSTRUCTION



drawn by  
MK  
approved by  
MJB  
date  
JAN 30 2025

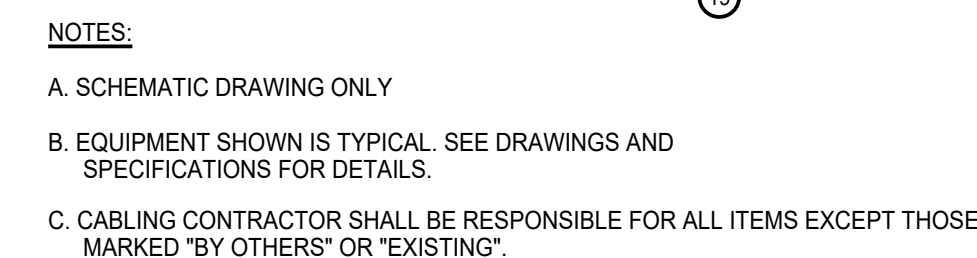


CITY ARCHIVES BUILDING  
REDEVELOPMENT  
380 WILLIAM AVENUE - WINNIPEG, MANITOBA

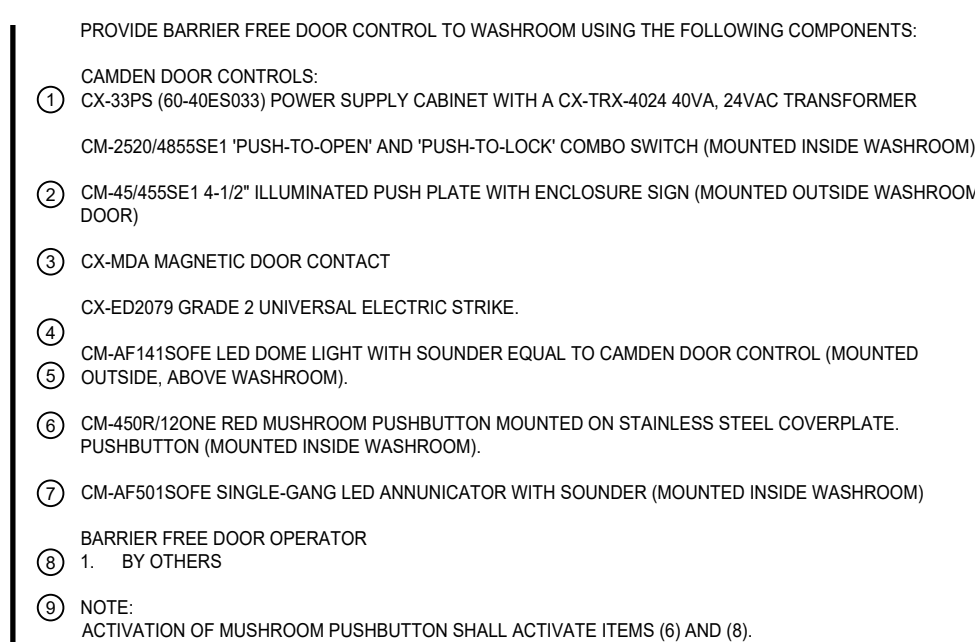
project  
2624  
sheet no.  
E5.3



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- GENERAL NOTES:
- 1 LAYOUT DEPICTS CONFIGURATION. ALL COMPONENTS SHOWN ARE FOR DIAGRAMMATIC PURPOSES ONLY. E.C. SHALL COORDINATE ALL DATA REQUIREMENTS WITH ELECTRICAL DRAWINGS.
- NOTES:
- 1 SURGE SUPPRESSOR SHALL BE SUPPLIED C/W EIGHT (8) 15A C14 RECEPTACLES AND TWO (2) NEMA 5-15R RECEPTACLES.
- 2 48 PORT PATCH PANELS SHALL BE CISCO 300 SERIES.

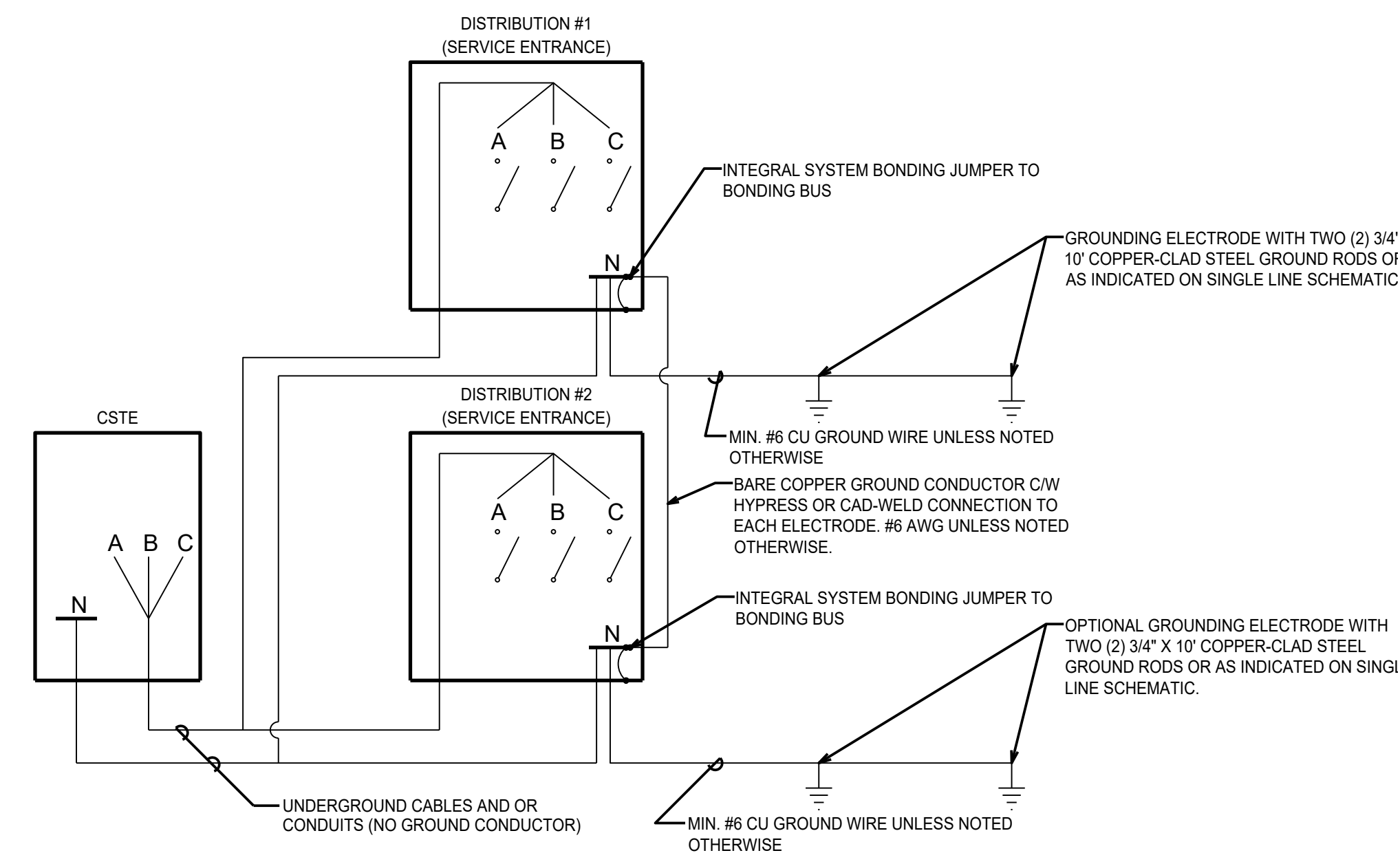


E6.1 Scale: N.T.S

E6.1 Scale: N.T.S

NOTES:

1. ALARM SUPPLIED BY DIV. 15, INSTALLED BY DIV. 16.
2. IF REMOTE ALARM IS REQUIRED, IT SHALL BE SUPPLIED BY DIV. 15, INSTALLED BY DIV. 16. CONFIRM LOCATION ON SITE.
3. REFER TO DIV. 15 FOR CONTROL WITH DDC SYSTEM.
4. PROVIDE TWO (2) SIMPLEX RECEPTACLES IN THE EVENT SUMP PUMPS #1 & #2 ARE PROVIDED WITH CORD ENDS.



E6.1 Scale: N.T.S.



E6.1 Scale: N.T.S.



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## E6.1