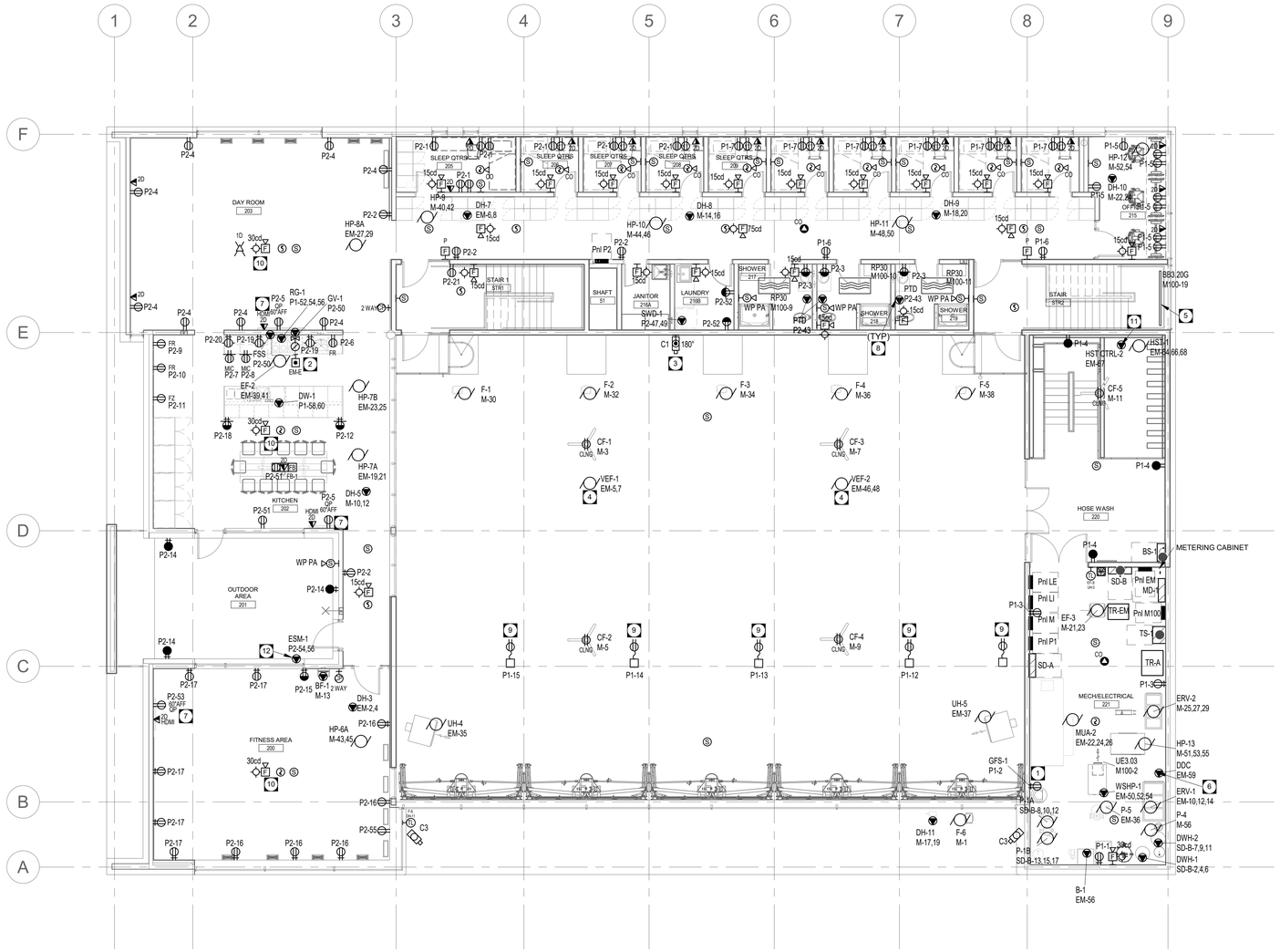

1 / EP2.2 SECOND FLOOR PLAN - POWER AND SYSTEMS
SCALE: 1 : 100

KEY NOTES

1. DEDICATED RECEPTACLE FOR GLYCOL FILL STATION.
2. WIRE AND CONNECT ALL DEVICES AND OUTLETS THROUGH CONTACTORS CONNECTED TO FIRE ALARM PANEL. REFER TO DEVICE SHUT OFF DETAIL ON E 4.2.
3. APPARATUS BAY CCTV CAMERA TO BE MOUNTED AT MINIMUM 12' AFF.
4. DEDICATED VEHICLE EXHAUST FAN. CONFIRM LOCATION WITH OWNER PRIOR TO ROUGH-IN.
5. BASEBOARD HEATER TO BE FLOOR MOUNTED MODEL WITH A FINISHED BACK.
6. CONFIRM LOCATION WITH OWNER PRIOR TO ROUGH-IN.
7. POWER AND DATA OUTLET FOR WALL MOUNTED TV. CONFIRM HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
8. PAPER TOWEL DISPENSER TO BE BOBRICK B-39747 WIRE AND CONNECT AC ADAPTER KIT PART NO. 3974-57. COORDINATE ROUGH-IN LOCATION FOR 5-15R RECEPTACLE OR DIRECT CONNECT AS PER SHOP DRAWINGS.
9. PROVIDE AUTOMATIC RETRACTABLE RECEPTACLE ON CORD REEL KUSSMAUL 091-220-20-120 FOR VEHICLE BATTERY CHARGERS. CONFIRM EXACT LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
10. ALL CEILING MOUNTED DEVICES TO BE ALIGNED TO CEILING WIREMOLD RAN BETWEEN WOOD BEAMS.
11. HOIST CONTROLLER TO BE LOCATED ON THE 3RD FLOOR MEZZANINE.
12. CONFIRM SNOW MELT LAYOUT WITH ARCHITECTURAL PRIOR TO INSTALLATION.

GENERAL NOTES

A. EXPOSED WIRING SHALL NOT BE PERMITTED. WIRING SHALL BE RECESSED IN WALL OR CONCEALED IN CONDUIT ROUTED THROUGH WALL ASSEMBLY.

B. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.

C. PROVIDE LOCKABLE ENCLOSURES WITH COMMON KEY ON ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.

D. FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT SHALL BE FLEXIBLE. CONFIRM FINAL CIRCUIT BREAKER AND WIRE SIZE WITH MECHANICAL EQUIPMENT SHOP DRAWINGS. ADJUST CIRCUIT BREAKER AND WIRE SIZE AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.

E. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 100mm (4") HIGH, 4% AIR ENTRAINED, POLY FIBER REINFORCED CONCRETE, 100mm (4") LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ARCHITECTURAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

F. UNLESS NOTED OTHERWISE, THE CIRCUITING INDICATED ON THE DRAWINGS IS REPRESENTATIONAL ONLY. CONFIRM CIRCUITING REQUIREMENTS ON SITE.

G. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING AND VOLTAGE DROP REQUIREMENTS, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

H. MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS NOTED OTHERWISE.

I. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT/LINE.

J. EMPTY CONDUIT SHALL BE C/W PULL WIRE AND PLASTIC BUSHINGS.

K. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE VABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESIBLE CEILING.

L. ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.

M. INSTALL CONDUIT WITH NO MORE THAN TWO (2) 90° BENDS BETWEEN PULL BOXES, AND NO MORE THAN 30m (100'-0") BETWEEN PULL BOXES. PULL BOXES SHALL BE INSTALLED FOR STRAIGHT THRU PULLS ONLY.

N. PROVIDE VERIFICATION OF FIRE ALARM SYSTEM FOR ALL DEVICES.

O. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

P. ELECTRICAL CONTRACTOR SHALL COORDINATE QUANTITIES AND LOCATIONS OF ALL FLOW SWITCHES AND SUPERVISED VALVES REQUIRING CONNECTION TO FIRE ALARM SYSTEM WITH SPRINKLER CONTRACTOR.

Q. REFER TO FIRE ALARM RISER DIAGRAM AND ZONE SCHEDULE FOR INITIATING ZONES AND SIGNAL CIRCUITS.

R. ALL FIXTURES, DEVICES AND SWITCHED MOUNTED IN CONCRETE MASONRY WALLS AND CONCRETE WALLS TO HAVE CONCEALED WIRING.

S. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR FIXTURE ALIGNMENTS AND MOUNTING HEIGHTS AT SELECT LOCATIONS.

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PROVINCE OF MANITOBA
A.O. SOWUNMI
Member
43015
2023-02-03
REGISTERED PROFESSIONAL ENGINEER

Project
WFPS STATION 9
1083 AUTUMNWOOD DRIVE

Sheet Title
SECOND FLOOR - POWER PLAN

Project No. 22028

Sheet EP2.2

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