

Sheet List	
Sheet Name	Sheet Number
ELECTRICAL SHEET LIST	E000
ELECTRICAL LEGEND	E001
ELECTRICAL GENERAL NOTES	E002
ELECTRICAL KEY PLAN	E003
FIRST FLOOR PLAN ELECTRICAL - DEMOLITION	E101
SECOND FLOOR PLAN ELECTRICAL - DEMOLITION	E102
ELECTRICAL EXISTING SINGLE LINE DIAGRAM	E110
FIRST FLOOR PLAN POWER & SYSTEMS - PROPOSED	E201
SECOND FLOOR PLAN POWER & SYSTEMS - PROPOSED	E202
ELECTRICAL SINGLE LINE DIAGRAM - PROPOSED	E210
ELECTRICAL PANEL SCHEDULES 01 - PROPOSED	E211
ELECTRICAL PANEL SCHEDULES 02 - PROPOSED	E212
FIRST FLOOR PLAN LIGHTING - PROPOSED	E301
SECOND FLOOR PLAN LIGHTING - PROPOSED	E302
FIRST FLOOR PLAN FIRE ALARM - PROPOSED	E401
SECOND FLOOR PLAN FIRE ALARM - PROPOSED	E402
FIRE ALARM SCHEMATIC	E403
FIRST FLOOR ELECTRICAL STAGE 1 (PRE-FIFA)	E801



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M5V 3C6

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CONSULTANTS

SEAL

PRIME CONSULTANT



100 - 175 Galaxy Blvd,
Toronto, ON M9W 0C9, Canada
tel 416 679 1930
www.arcadis.com

PROJECT TITLE

TORONTO PARAMEDIC SERVICES
FLEET MAINTENANCE STATION -
UPGRADE WORKS

PROJECT ADDRESS

KING STREET YARD -
BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO: 30276606	
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PROJECT MGR: N. L.	APPROVED BY: F.R

SHEET TITLE

ELECTRICAL SHEET LIST

SHEET NUMBER	ISSUE
E000	G

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SYMBOL	DESCRIPTION
	COMBINATION MAGNETIC STARTER
	MAGNETIC STARTER
	DIRECT CONNECTION TO EQUIPMENT
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MANUAL STARTER
	CEILING MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	RELAY
	MOTOR - SINGLE PHASE
	MOTOR - 3 PHASE
	MOTOR - 3 PHASE WITH NON-FUSIBLE DISCONNECT
	START/STOP PUSHBUTTON FOR POWER
	CONTROL PANEL
	MAN HOLE
	HAND HOLE
	HEAT TRACING
	HORSEPOWER RATED MOTOR TOGGLE SWITCH
	PUSHBUTTON FOR POWER
	FURNITURE FEED
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE
	SPLIT CIRCUIT DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
<u>DESIGNATIONS FOR RECEPTACLES</u>	
C	CEILING
D	DEPRESSED WITH FLOOR SLAB/ACCESS FLOOR
F	FURNITURE MTD
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
S	MOUNTED ON SURFACE OF FLOOR
U	UNDERFLOOR
WP	WEATHER PROTECTED
CR	CORD REEL
	FEEDER BUSWAY
	PLUG-IN BUSWAY WITH BUS PLUG
30 15A	30 DENOTES SWITCH RATING, 15A DENOTES FUSE RATING
	PLUG-IN BUSWAY WITH TAP BOX
	PLUG-IN BUSWAY WITH EXPANSION BOX
	PAD MOUNT TRANSFORMER
	SUSPENDED TRANSFORMER
	RECEPTACLE AND/OR LIGHTING PANELBOARD - SURFACE MOUNTED
	RECEPTACLE AND/OR LIGHTING PANELBOARD - RECESSED
	POWER AND/OR DISTRIBUTION PANELBOARD - SURFACE MOUNTED
	POWER AND/OR DISTRIBUTION PANELBOARD - RECESSED
<u>TRANSFORMER & PANELBOARD IDENTIFICATION</u>	
1. EQUIPMENT DESIGNATION: _____	
LP = LIGHTING	
PP = POWER	
DP = DISTRIBUTION	
SP = SWITCHBOARD	
SG = SWITCHGEAR	
PDC = POWER DISTRIBUTION CENTER	
MCC = MOTOR CONTROL CENTER	
RP = RELAY PANEL	
MP = MECHANICAL	
TX = TRANSFORMER	
UP = UPS	
MTS = MANUAL TRANSFER SWITCH	
2. VOLTAGE DESIGNATION: _____	
2 = 120/208V - 3PH	
6 = 347/600V - 3PH	
3. SYSTEM DESIGNATION: _____	
N = NORMAL	
E = EMERGENCY	
UA = UPS #1	
UB = UPS #2	
4. FLOOR DESIGNATION: _____	
1 = FIRST FLOOR	
2 = SECOND FLOOR	
3 = ROOF	
5. PANEL NO. DESIGNATION: _____	
01 = PANELBOARD #1	
02 = PANELBOARD #2	
03 = PANELBOARD #3	
ETC.	

SYMBOL	DESCRIPTION
NORMAL	LIFE SAFETY
	CEILING, OR PENDANT MOUNTED LUMINAIRE
	LINEAR CEILING, PENDANT OR WALL MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	POLE MOUNTED LUMINAIRE
\$	LIGHT SWITCH
<u>DESIGNATIONS FOR LIGHT SWITCHES</u>	
3 - 3-WAY	
4 - 4-WAY	
D - DIMMER	
K - KEY OPERATED	
MC - MOMENTARY CONTACT	
P - PILOT LIGHT	
OC - OCCUPANCY SENSOR SWITCH	
	CEILING MOUNTED OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR
	CEILING MOUNTED PHOTO-ELECTRIC CONTROL
	WALL MOUNTED PHOTO-ELECTRIC CONTROL
	EXIT SIGN - CEILING MOUNTED
	ARROW(S) DENOTES DIRECTION
	SHADED AREA(S) DENOTES FACE
	EXIT SIGN - WALL MOUNTED
	EMERGENCY LIGHTING BATTERY WITH 2 HEADS
	DOUBLE REMOTE EMERGENCY LIGHTING HEADS
	SINGLE REMOTE EMERGENCY LIGHTING HEADS
	SPACE TYPE FOR LIGHTING CONTROL
	REFER TO SEQUENCE OF OPERATION

SYMBOL	DESCRIPTION
	LIGHTNING AIR TERMINAL
	PIG TAIL CONNECTION
	CONDUCTOR DOWN TO BUILDING GROUND LOOP
	GROUND ROD
	L DENOTES LIGHTNING PROTECTION
	GROUND ROD INSPECTION WELL
	INSPECTION WELL
	GROUND CONNECTION
<u>OTHER CONNECTION TYPES AS NOTED</u>	
GP = GROUND PLATE	
GSU = GROUND STIRRUP	
REB = REBAR	
TH = THERMITWELD	
CW = COMPRESSION WELD	
----- GROUND BUS	
----- #4/0 BARE COPPER GROUND GRID CONDUCTOR (UNDER SLAB)	
----- #4/0 BARE COPPER GROUND GRID CONDUCTOR (EMBEDDED IN SLAB)	
----- #4/0 BARE COPPER GROUND LOOP, RISER & JUMPER	
----- GROUND LOOP SERVICE ROOM	
----- LIGHTNING GROUND CONDUCTOR	

SYMBOL	DESCRIPTION
	REMOTE ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM MANUAL PULL STATION
	PREACTION ABORT
	PREACTION PULL
	CARBON DIOXIDE ABORT
	CARBON DIOXIDE PULL
	FIRE ALARM BELL
	FIRE ALARM BELL w STROBE
	CEILING MOUNTED FIRE ALARM SPEAKER
	WALL MOUNTED FIRE ALARM SPEAKER
	FIRE ALARM HORN
	FIRE ALARM HORN w STROBE
	WALL MOUNTED STROBE LIGHT
	CEILING MOUNTED STROBE LIGHT
	WARNING LIGHT
	ACTIVE FIELD DEVICE CONTROL MODULE
	ACTIVE FIELD DEVICE MONITOR MODULE
	END OF LINE DEVICE
	FIRE ALARM RELAY
	FIRE DO NOT ENTER SIGN
	INDIVIDUAL ADDRESSABLE MODULE
	ISOLATOR MODULE
	MAGNETIC DOOR HOLDER
	POST INDICATOR VALVE
	SPRINKLER FLOW SWITCH
	SPRINKLER PRESSURE SWITCH
	SPRINKLER SUPERVISED VALVE
	ZONE ADAPTOR MODULE
	FLAME DETECTOR
	GAS DETECTOR
	HEAT DETECTOR
	SMOKE DETECTOR
	COMBINATION HEAT & SMOKE DETECTOR
<u>SMOKE DETECTORS</u>	
AS = AIR SAMPLING	
P = PHOTOELECTRIC	
I = IONIZATION	
BR = BEAM RECIEVER	
BT = BEAM TRANSMITER	
ID = IN DUCT	
R = RELAY BASE	
SS = SINGLE STATION	
SB = SOUNDER BASE	
U = UNDER RAISED FLOOR	
<u>HEAT DETECTORS</u>	
R = RATE OF RISE	
F = FIXED	
RF = RATE OF RISE/FIXED COMBO	
RC = RATE COMPENSATION	
LHD = LINEAR HEAT DETECTOR	
<u>FLAME DETECTORS</u>	
IR = INFRA RED	
<u>GAS DETECTORS</u>	
CO = CARBON MONOXIDE	

SYMBOL	DESCRIPTION
	FIBRE OPTIC DATA OUTLET
	COPPER DATA OUTLET
	FIBRE TELEPHONE OUTLET
	COPPER TELEPHONE OUTLET
<u>DESIGNATIONS FOR DATA/TELEPHONE OUTLETS</u>	
ATEL ADMINISTRATIVE TELEPHONE	
C CEILING	
CAP CUSTOMER ASSISTANCE PHONE	
D DEPRESSED WITH FLOOR SLAB/ACCESS FLOOR	
DAS DISTRIBUTED ANTENNA SYSTEM	
DDC DIRECT DIGITAL CONTROL	
EEP EMERGENCY ELECTRICAL CONTROL PANEL	
ETEL EMERGENCY TELEPHONE	
F FURNITURE MOUNTED	
ITEL INFORMATION TELEPHONE	
O OVERHEAD	
P PENDANT	
PATEL PUBLIC ASSISTANCE TELEPHONE	
R RACK MOUNTED PATCH PANEL	
S MOUNTED ON SURFACE OF FLOOR	
U UNDERFLOOR	
W FLUSH WITH SURFACE WALL MOUNTED	
WAP WIRELESS ACCESS POINT	
<u>CCTV</u>	
	CAMERA
<u>ACCESS CONTROL</u>	
	CARD READER
	DOOR CONTROLLER
	DOOR MONITOR CONTACT
	DOOR BY-PASS KEYED SWITCH
	ELECTRIC DOOR STRIKE
	GLASS BREAK DETECTOR
	INTRUSION ACCESS CONTROL
	KEY PAD
	MOTION DETECTOR
	MAGNETIC LOCK
	DRIVER COUPLER VIEW MONITOR
	PUSH TO EXIT
	REQUEST TO EXIT
	PUSH BUTTON
	SIREN
	ELECTRONIC LOCKSET
	FLOOR LIMIT SWITCH
	ELECTRONIC HINGE

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CONSULTANTS		
SEAL		
PRIME CONSULTANT		
 ARCADIS		
100 - 175 Galaxy Blvd, Toronto, ON M9W 0C9, Canada tel 416 679 1930 www.arcadis.com		
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GENERAL ELECTRICAL NOTES

1.

ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE AND FLOOR SLAB SHALL BE METAL. UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.
2.

EXPOSED RACEWAYS WITHIN 10'AFF SHALL BE GRC.
3.

ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN PROCESS AREAS, WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS WHERE NOTED.
4.

COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
5.

VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
6.

CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED.
7.

CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON DRAWINGS.
8.

FURNISH AND INSTALL CONDUIT FROM BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR, UNLESS NOTED OTHERWISE:

•

27mmC (1") TV OUTLETS

•

16mmC (1/2") VOLUME CONTROLS

•

21mmC (3/4") TELEPHONE OUTLETS

•

21mmC (3/4") DATA OUTLETS

•

21mmC (3/4") FIRE ALARM DEVICES
9.

THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. THESE DRAWINGS ARE SUPPLEMENTARY TO THE PROJECT SPECIFICATIONS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
10.

INSTALL SYSTEMS SUCH THAT CODE REQUIRED WORKING CLEARANCE AND DEDICATED EQUIPMENT SPACE ALONG WITH SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
11.

COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND PARTITION RATINGS. ACCESS DOORS IN FIRE RATED SURFACES SHALL MAINTAIN THE FIRE RATING OF THE PARTITION.
12.

PROVIDE ALL MISCELLANEOUS STEEL AND HARDWARE TO SUPPORT ALL DEVICES AND EQUIPMENT AS INDICATED IN THE SPECIFICATIONS. ALL MISCELLANEOUS STEEL TO BE GALVANIZED UNLESS OTHERWISE NOTED.
13.

REFER TO MECHANICAL/ELECTRICAL SCHEDULE DRAWING(S) FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. INSTALL STARTERS, VFDS, DISCONNECTS, ETC WHERE MECHANICAL SCHEDULES INDICATE THESE ITEMS ARE FURNISHED BY MANUFACTURER. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS INDICATED ON THE SCHEDULES AND WHERE ELSEWHERE INDICATED, NOT FURNISHED BY MANUFACTURER. PROVIDE THE CIRCUIT OF HIGHER AMPACITY WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES.
14.

VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH EQUIPMENT SHOP DRAWINGS PRIOR TO ORDERING MATERIALS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE EQUIPMENT SHOP DRAWINGS AND ELECTRICAL DRAWINGS. OBTAIN DIRECTION FROM THE ENGINEER PRIOR TO ORDERING MATERIALS WHERE DISCREPANCIES EXIST.
15.

TRANSFORMER CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE OESC AND TRANSFORMER CIRCUIT SIZING SCHEDULE LOCATED ON THESE DRAWINGS UNLESS NOTED OTHERWISE.
16.

MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE OESC AND MOTOR CIRCUIT SIZING SCHEDULE LOCATED ON THESE DRAWINGS UNLESS NOTED OTHERWISE.
17.

PROVIDE 1#12+ 1#12N + 1#12G FOR 20A BRANCH CIRCUITING, UON; MINIMUM CONDUIT SIZE OF 21mmC, UON. REFER TO CIRCUIT MAXIMUM DISTANCE TABLES FOR WIRING AND CONDUIT UPSIZING REQUIREMENTS.
18.

WHERE MULTIPLE SWITCHES, RECEPTACLES, AND OTHER OUTLETS (EXCEPT WALL PHONES) ARE INDICATED PROVIDE MULTI-GANG BACK BOXES WITH PHASE BARRIERS AND A COMMON FACEPLATE FOR ALL SIMILAR DEVICES.
19.

WHERE DIFFERENT RECESSED ELECTRICAL DEVICES WITH THE SAME MOUNTING HEIGHTS ARE INDICATED SIDE-BY-SIDE, MOUNT THE DEVICES SO THAT THERE IS ONE INCH BETWEEN ADJACENT VERTICAL EDGES OF THE FACEPLATES, UNLESS OTHERWISE NOTED.
20.

WHERE ELECTRICAL DEVICES WITH DIFFERENT MOUNTING HEIGHTS ARE LOCATED IN THE SAME AREA ALIGN DEVICES VERTICALLY THROUGH THEIR CENTERLINES.
21.

REFER TO ARCHITECTURAL MILLWORK/ELEVATIONS FOR RECEPTACLE HEIGHTS FOR KITCHEN/BATHROOM AREAS.
22.

TYPICAL MOUNTING HEIGHTS ARE AS FOLLOWS:

A.

RECEPTACLES 450MM AFF UNLESS OTHERWISE INDICATED

B.

LIGHT SWITCHES, FIRE ALARM PULL STATIONS, CARD READERS 1050MM AFF
23.

WHERE THE NUMBER OF CURRENT-CARRYING CONDUCTORS IN A RACEWAY EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN THE ADJUSTMENT FACTOR TABLE IN THE OESC. LOAD DIVERSITY FACTORS SHALL NOT BE USED IN SIZING BRANCH CIRCUIT CONDUCTORS.
24.

CONTRACTOR SHALL PROVIDE UPDATED, TYPED PANEL DIRECTORIES FOR ALL PANELBOARDS. ANY CIRCUITS NOT USED DURING CONSTRUCTION SHALL BE MARKED "SPARE".
25.

PROVIDE A DISCONNECTING MEANS FOR ALL LIGHTING FIXTURES.
26.

LIGHT LINE WEIGHT INDICATES EXISTING CONSTRUCTION OR CONSTRUCTION PROVIDED BY OTHERS.
27.

ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE ONTARIO ELECTRICAL SAFETY CODE AND LOCAL REQUIREMENTS
28.

WIRING SHALL BE COPPER TYPE THWN/THHN, STRANDED CONDUCTOR.
29.

MINIMUM SIZE POWER CONDUCTOR SHALL BE #12 AWG, RATED FOR 90 DEGREES C 'DRY'.
30.

MINIMUM SIZE CONTROL CONDUCTOR SHALL BE #14 AWG, RATED 90 DEGREE C 'DRY' OR 75 DEGREE C 'WET' UNLESS NOTED OTHERWISE.
33.

ALL CABLES NOT CONCEALED IN A RACEWAY ROUTED IN CEILING SPACE SHALL BE PLENUM RATED PER OESC REQUIREMENTS.
34.

ALL BRANCH CIRCUITS AND HOMERUNS TO RECEPTACLE PANELS SHALL BE 2 #12 & #12 GND - 21mmC. UNLESS NOTED OTHERWISE. REFER TO CIRCUIT MAXIMUM DISTANCE TABLES FOR WIRING AND CONDUIT UPSIZING REQUIREMENTS.
35.

MINIMUM CONDUIT SIZE IS 21mmC ABOVE GRADE, MINIMUM CONDUIT SIZE BELOW GRADE IS 27mmC.
36.

EXTERIOR CONDUIT ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL.
37.

EXTERIOR CONDUIT BELOW GRADE SHALL BE RIGID GALVANIZED STEEL OR SCHEDULE 40 PVC. EXPOSED RISERS UP OUT OF GROUND SHALL BE RIGID GALVANIZED STEEL.
38.

INTERIOR CONDUITS IN OFFICE OR AREA SHALL BE ELECTRICAL METALLIC TUBING, EMT, WITH STEEL, COMPRESSION FITTINGS. ALL CONDUIT IN PRODUCTION AND PROCESS AREA TO RIGID GALVANIZED STEEL.
39.

WHERE REQUIRED FOR FLEXIBLE CONNECTIONS TO EQUIPMENT, FLEXIBLE METAL CONDUIT MAY BE USED IN LENGTHS OF 1820mm OR LESS. FOR EXTERIOR OR DAMP LOCATIONS, USE LIQUID TIGHT FLEXIBLE METAL CONDUIT. CIRCUITS INSTALLED IN FLEXIBLE CONDUIT SHALL CONTAIN A DEDICATED GROUND WIRE, CONDUIT AS GROUND IS NOT ACCEPTABLE.
40.

PROVIDE BUSHINGS ON CONDUITS INSIDE ENCLOSURES, JUNCTION BOXES, OR PULL BOXES.
41.

EMPTY CONDUITS FOR TELEPHONE, DATA OR OTHER LOW VOLTAGE CABLES SHALL HAVE PULL STRING AND BUSHED ENDS.
42.

PROVIDE JUNCTION OR PULL BOXES IN THE CONDUIT SYSTEM PER OESC REQUIREMENTS OVER AND ABOVE THOSE SPECIFICALLY CALLED FOR ON THE DRAWINGS.
43.

ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATIC. EXACT CONDUIT RUNS SHALL BE DETERMINED IN THE FIELD TO CLEAR OTHER EQUIPMENT, PIPES, ETC.
44.

ALL HORIZONTAL AND VERTICAL PENETRATIONS THROUGH FIRE RATED STRUCTURE MUST BE SLEEVED (RGS CONDUIT) AND SEALED WITH AN APPROVED FIRE STOP.
45.

PROVIDE EXPANSION JOINTS IN CONDUITS, CABLE TRAYS, AND BUSWAYS WHERE CONDUITS, CABLE TRAYS, AND BUSWAYS CROSS BUILDING EXPANSION JOINTS.
46.

DO NOT ROUTE RACEWAYS, CABLE TRAY, OR BUSWAY BENEATH ANY ROOF OPENINGS OR HATCHES.
47.

ALL WALL OUTLETS NOT PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH A BLANK WALL PLATE.
48.

ALL OUTLET BOXES INSTALLED BACK-TO-BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIALS INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO ANOTHER.
49.

MISCELLANEOUS SUPPORT STEEL SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. PROVIDE FLOOR MOUNTING SUPPORT RACK FOR CONDUITS RUN BETWEEN THE EQUIPMENT AND VERTICAL DROPS FROM OVERHEAD OR BUSWAY. DO NOT RUN CONDUITS ON THE FLOOR.
50.

GROUNDING CONDUCTOR SHALL BE RUN IN ALL RACEWAYS.
51.

ELECTRICAL EQUIPMENT SHALL BE UL/CSA LISTED AND LABELED.
52.

WIRING DEVICES SHALL BE SPECIFICATION GRADE, SELF GROUNDING WITH BACK AND SIDE WIRING. COORDINATE DEVICE COLOR WITH ARCHITECTURAL FINISH WITH STAINLESS STEEL COVER PLATES.
53.

DISCONNECT SWITCHES SHALL BE HEAVY DUTY, NEMA 1 INDOORS, NEMA 3R OUTDOORS
54.

PROVIDE FUSES IN FUSED SWITCHES AS INDICATED. WHERE NOT INDICATED SIZE PER EQUIPMENT NAMEPLATE. FUSES SHALL BE DUAL ELEMENT TYPE, CURRENT LIMITING, CLASS RK5 UNLESS NOTED OTHERWISE.
55.

CONTRACTOR SHALL SIZE OVERLOAD RELAY HEATERS AFTER READING ACTUAL HORSEPOWER AND SERVICE FACTOR RATING ON THE MANUFACTURER'S NAMEPLATE. HEATER SHALL BE SIZED PER NEC REQUIREMENT. REDUCE HEATER SIZE IF POWER FACTOR CORRECTION CAPACITOR IS CONNECTED ON LOAD SIDE OF OVERLOAD RELAYS CHANGE FUSE SIZE IN PROPORTION IF NAMEPLATE HORSEPOWER IS DIFFERENT THAN SHOWN ON DRAWINGS.
56.

PANELBOARDS SHALL BE SURFACE OR FLUSH MOUNTED WITH MAIN BREAKER OR MAIN LUGS AND BRANCH BREAKERS AS INDICATED. BRANCH BREAKERS SHALL BE PLUG-ON TYPE. PANELBOARD SHALL BE RATED AT 10KAIC UNLESS OTHERWISE INDICATED. BUS BARS SHALL BE COPPER.
57.

ALL FLUSH MOUNTED PANELS SHALL HAVE 3 - 27mmC EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE CIRCUITS.
58.

TRANSFORMERS SHALL BE ENERGY EFFICIENT, VENTILATED TYPE, 115 DEGREES C RISE ABOVE AMBIENT, ALUMINUM WINDINGS UNLESS NOTED OTHERWISE.
59.

OVERHEAD DOOR PACKAGE SUPPLIED WITH CONTROL PANEL, FUSED DISCONNECT SWITCH, STARTERS, FUSED CPT, ETC., AS A COMPLETE PACKAGE BY ES. EC SHALL INSTALL PANEL, ALL REMOTE DEVICES, AND MAKE ALL CONNECTIONS PER CERTIFIED EQUIPMENT DRAWINGS. EC SHALL PROVIDE ALL CONDUIT AND WIRING TO CONNECT AS RECOMMENDED BY MANUFACTURER.
60.

CIRCUIT BREAKERS FOR LIGHTING SHALL BE SWITCH RATED. SHORT CIRCUIT RATINGS SHALL MATCH EXISTING BREAKERS (IF APPLICABLE).
61.

ALL EMERGENCY LIGHTING SHALL BE FED BY BATTERY PACKS SHOWN ON DRAWING.
62.

FUSING FOR LIGHTING FIXTURE BALLASTS/DRIVERS SHALL BE EXTERNALLY ACCESSIBLE.
63.

COORDINATE LIGHT FIXTURE LOCATIONS WITH OTHER TRADES TO AVOID INTERFERENCES.
64.

COORDINATE LIGHTING CONTROL STATION LOCATIONS WITH OWNER'S REPRESENTATIVE.
65.

J-BOXES SHALL BE ACCESSIBLE. DO NOT INSTALL FIRE ALARM, POWER, DATA, CONTROL J-BOXES ABOVE GYPSUM BOARD CEILINGS. J-BOX SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION OUTSIDE OF INACCESSIBLE CEILING SPACES. ACCEPTABLE LOCATIONS ARE; SPACES OPEN TO STRUCTURE AND ACCESSIBLE CEILING SPACE. IF INSTALLATION IN ADJACENT SPACES IS NOT POSSIBLE, COORDINATE J-BOX LOCATION WITH ACCESS PANELS TO ALLOW FUTURE MAINTENANCE, INSPECTION OR RENEWAL.

SPECIFIC CODE NOTES

- FIRE PROTECTION REQUIREMENTS
- A.

PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.

1.

CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.

2.

OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.

3.

OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
- B.

RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

GENERAL NOTES

1.

VERIFY ALL DIMENSIONS WITH VENDOR'S SHOP DRAWINGS AND FIELD MEASUREMENTS.
2.

DETERMINE EXACT LOCATIONS OF EQUIPMENT AND RECEPTACLES IN ROOMS. LOCATE EQUIPMENT AND RECEPTACLES TO SUIT ROOM CONSTRUCTION. OBTAIN CONSULTANT'S APPROVAL PRIOR TO INSTALLATION.
3.

PROVIDE SUITABLE GALVANIZED STEEL CHANNEL AND/OR CHANNELS BETWEEN STRUCTURAL MEMBERS AND FASTEN WITH CLAMPS WHENEVER EQUIPMENT CANNOT BE DIRECTLY SUSPENDED FROM THE STRUCTURE. DO NOT DRILL ROOF DECK MATERIAL AND/OR ITS SUPPORT STRUCTURE OR ANY STRUCTURAL STEEL MEMBER.
4.

REPAIR ALL DISTURBED HARD AND SOFT SURFACES UNDER THIS DIVISION TO SATISFACTION OF CITY. CONTRACTOR TO ARRANGE FOR AND PAY ALL COSTS FOR ALL INSPECTIONS WITH AUTHORITIES HAVING JURISDICTION, I.E. ESA, TSSA, UTILITIES, ETC.
5.

WHERE EQUIPMENT OTHER THAN THAT OF SPECIFIED MANUFACTURER IS TO BE INSTALLED ENSURE THAT SPACE IS SUFFICIENT TO MEET ALL REQUIREMENTS. ASSUME FULL RESPONSIBILITY FOR THE INSTALLATION.
6.

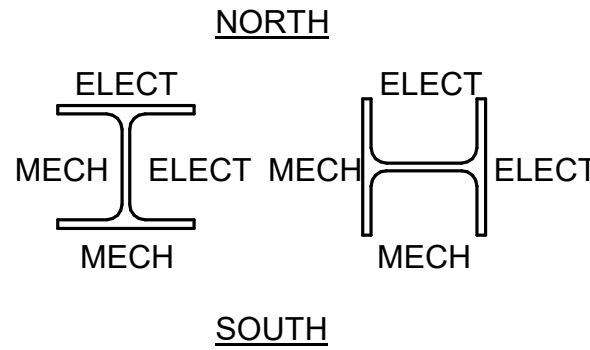
INSTALL POLYPROPYLENE PULL CORD IN ALL EMPTY CONDUITS.
7.

ELECTRICAL CONTRACTOR TO VERIFY EXACT CABLE SIZES TO MEET VOLTAGE DROP AND CURRENT DERATING CODE REQUIREMENT.
8.

PROVIDE SINGLE GANG OUTDOOR OUTLET BOXES FOR ALL TELECOMMUNICATIONS OUTLETS AND CAMERA LOCATIONS.

THE NORTH AND EAST SIDE OF ALL COLUMNS IS TO BE RESERVED FOR MOUNTING OF ELECTRICAL EQUIPMENT. MECHANICAL EQUIPMENT SHALL NOT BE LOCATED AT THESE LOCATIONS UNLESS ABSOLUTELY NECESSARY. REFER TO FLOOR PLANS.

COLUMN ALLOCATIONS
FOR ELECTRICAL AND
MECHANICAL
EQUIPMENT



THE SOUTH AND WEST SIDE OF ALL COLUMNS IS TO BE RESERVED FOR MOUNTING OF MECHANICAL EQUIPMENT. ELECTRICAL EQUIPMENT SHALL NOT BE LOCATED AT THESE LOCATIONS UNLESS ABSOLUTELY NECESSARY. REFER TO FLOOR PLANS.

NOTE:
THE ABOVE COLUMN ALLOCATIONS ARE FOR ALL ELECTRICAL EQUIPMENT (LIGHTING, POWER & MISC. SYSTEMS) AND ALL MECHANICAL EQUIPMENT (ROOF CONDUCTORS, FIRE HOSE CABINETS, DRINKING WATER COOLERS, HOSE BIBS, CA OUTLETS ETC.). ALL DEVIATIONS SHALL BE COORDINATED WITH OTHER DISCIPLINES IN THE FIELD AND NOTED ON AS-BUILT DRAWINGS.

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Toronto, ON M9W 0C9, Canada
tel 416 679 1930
www.arcadis.com

PROJECT TITLE

TORONTO PARAMEDIC SERVICES
FLEET MAINTENANCE STATION -
UPGRADE WORKS

PROJECT ADDRESS

KING STREET YARD -
BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
M.B

CHECKED BY:
L. S.

PROJECT MGR:
N. L.

APPROVED BY:
F.R

SHEET TITLE

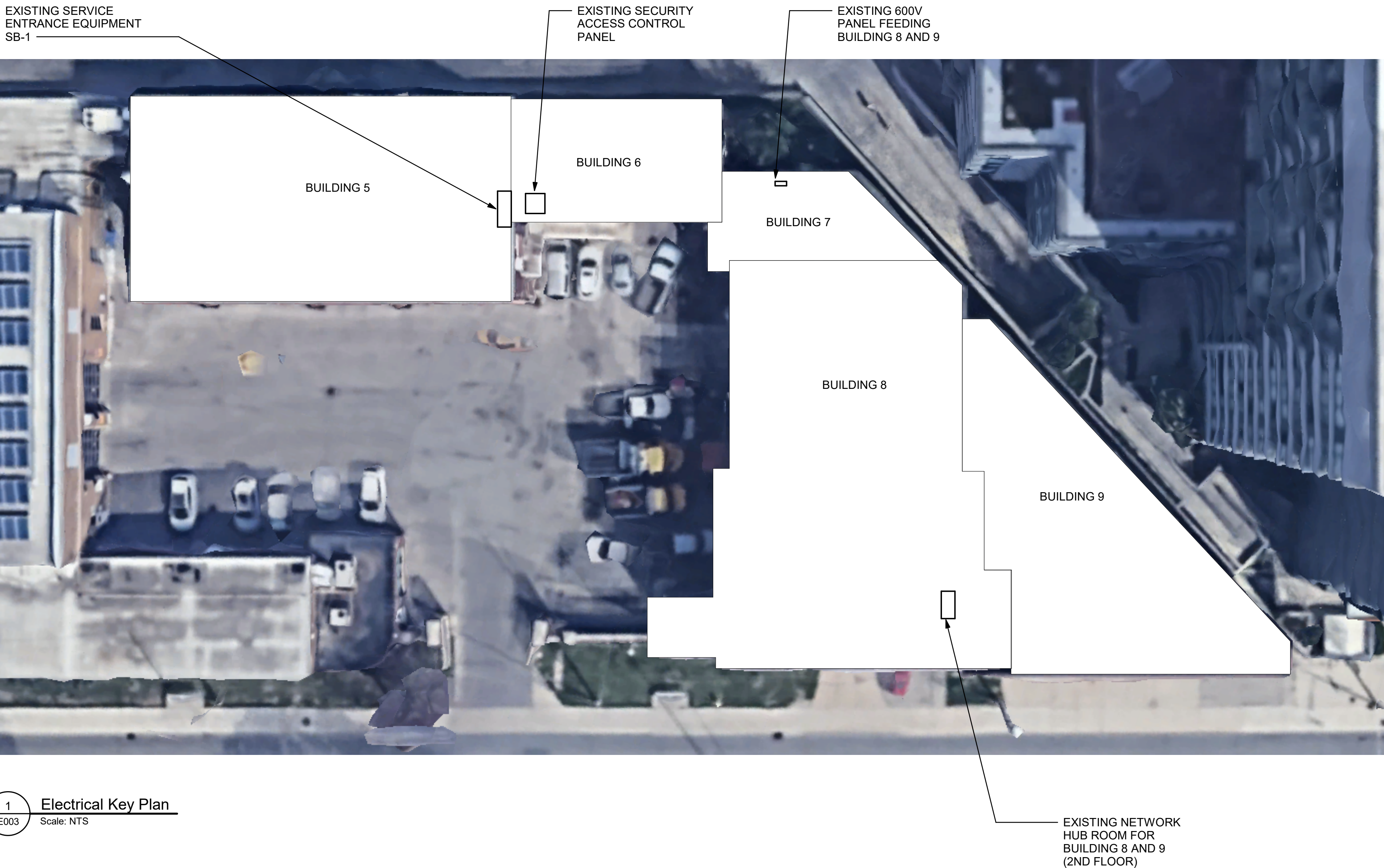
ELECTRICAL GENERAL
NOTES

SHEET NUMBER

E002

ISSUE

G



1 Electrical Key Plan
E003 Scale: NTS

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ELECTRICAL KEY PLAN

SHEET NUMBER

E003

ISSUE

G



EXISTING MAIN PANEL
LP-1



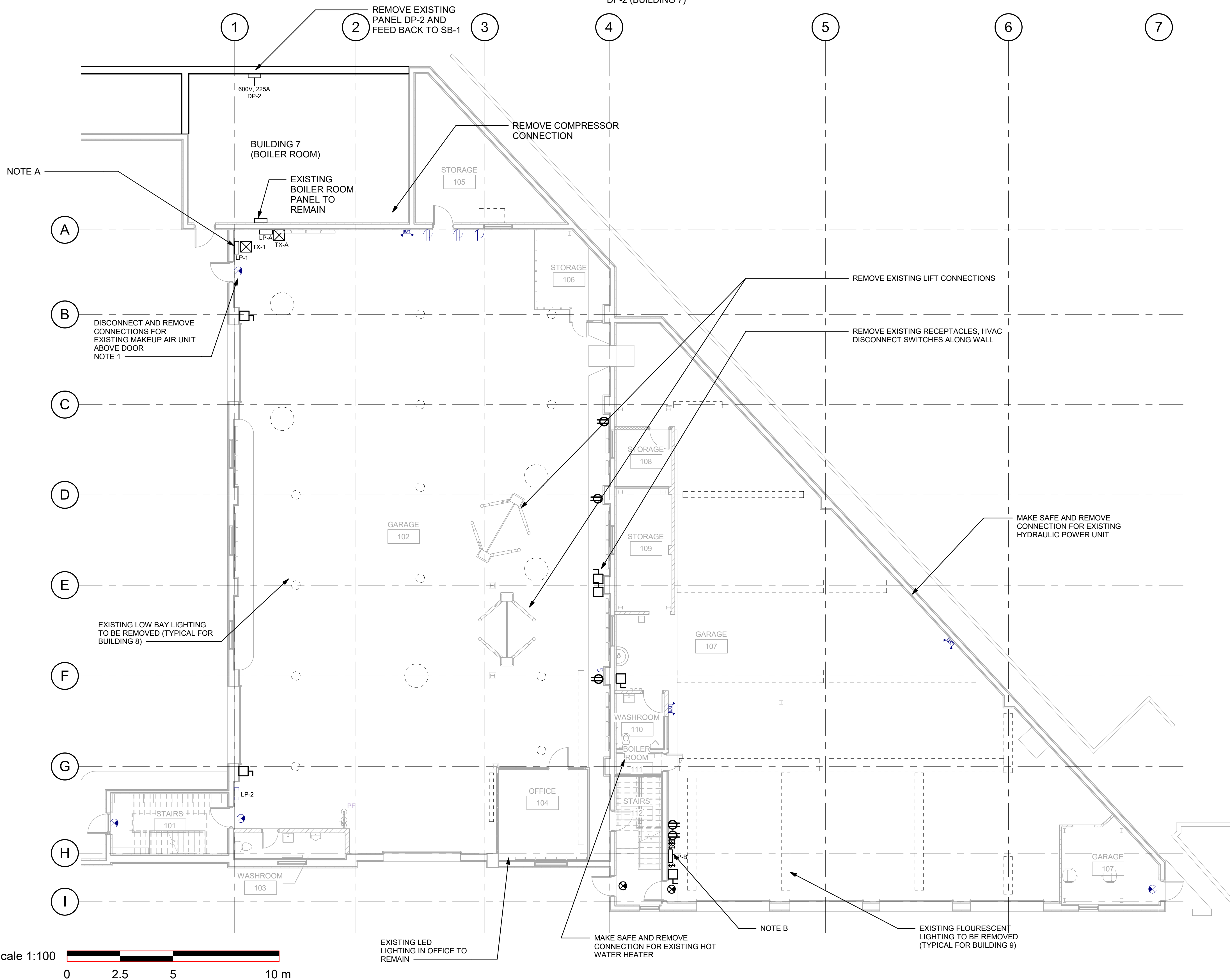
EXISTING PANEL
LP-A



EXISTING PANEL
LP-2



EXISTING PANEL
DP-2 (BUILDING 7)



DEMOLITION KEY NOTES:

- A. MAIN POWER FOR BUILDINGS 8 AND 9 ARE FED FROM DP1 FROM SEPARATE TRANSFORMERS. ALL EXISTING PANELS, TRANSFORMERS TO BE REMOVED AND WIRING BACK TO DP-1.
- B. BUILDING 9 120/240 PANEL LP-B TO BE REMOVED, FED FROM PANEL LP-A
- C. EXISTING POWER DISTRIBUTION SYSTEM, LIGHTING, EMERGENCY POWER AND EXIT SIGNAGE TO REMAIN FOR PHASE 1 OF CONSTRUCTION. PARTIAL REMOVAL OF LOADS FROM WEST GARAGE PANEL TO FACILITATE SPACE FOR PRE-FIFA (PHASE 1 LOADS)

GENERAL DEMOLITION NOTES:
(APPLIES TO BOTH BUILDING 8 AND 9)

1. REMOVE ALL EXISTING MECHANICAL EQUIPMENT CONNECTIONS BACK TO SOURCE INCLUDING CONDUIT, CABLING, DISCONNECT SWITCHES/STARTERS. REFER TO MECHANICAL DEMOLITION DRAWINGS FOR MORE DETAIL REGARDING SPECIFIC EQUIPMENT.
2. REMOVE ALL EXISTING LIGHTING, EMERGENCY LIGHTING EXIT SIGNS, AND LIGHTING CONTROLS IN BOTH BUILDINGS ON THIS FLOOR AS INDICATED.
3. REMOVE ALL EXISTING ROLL UP AUTOMATIC DOOR OPERATORS, STARTERS AND DISCONNECT SWITCHES.
4. REMOVE ALL EXISTING RECEPTACLES AS INDICATED
5. PANELS WITH ALPHABETIC DESIGNATOR ARE 120/240V 1PH, PANELS WITH NUMERIC DESIGNATOR ARE 120/208 3PH, EXISTING POWER DISTRIBUTION SYSTEM IS TO BE REMOVED AND REPLACED WITH NEW. REFER TO SINGLE LINE DIAGRAM.

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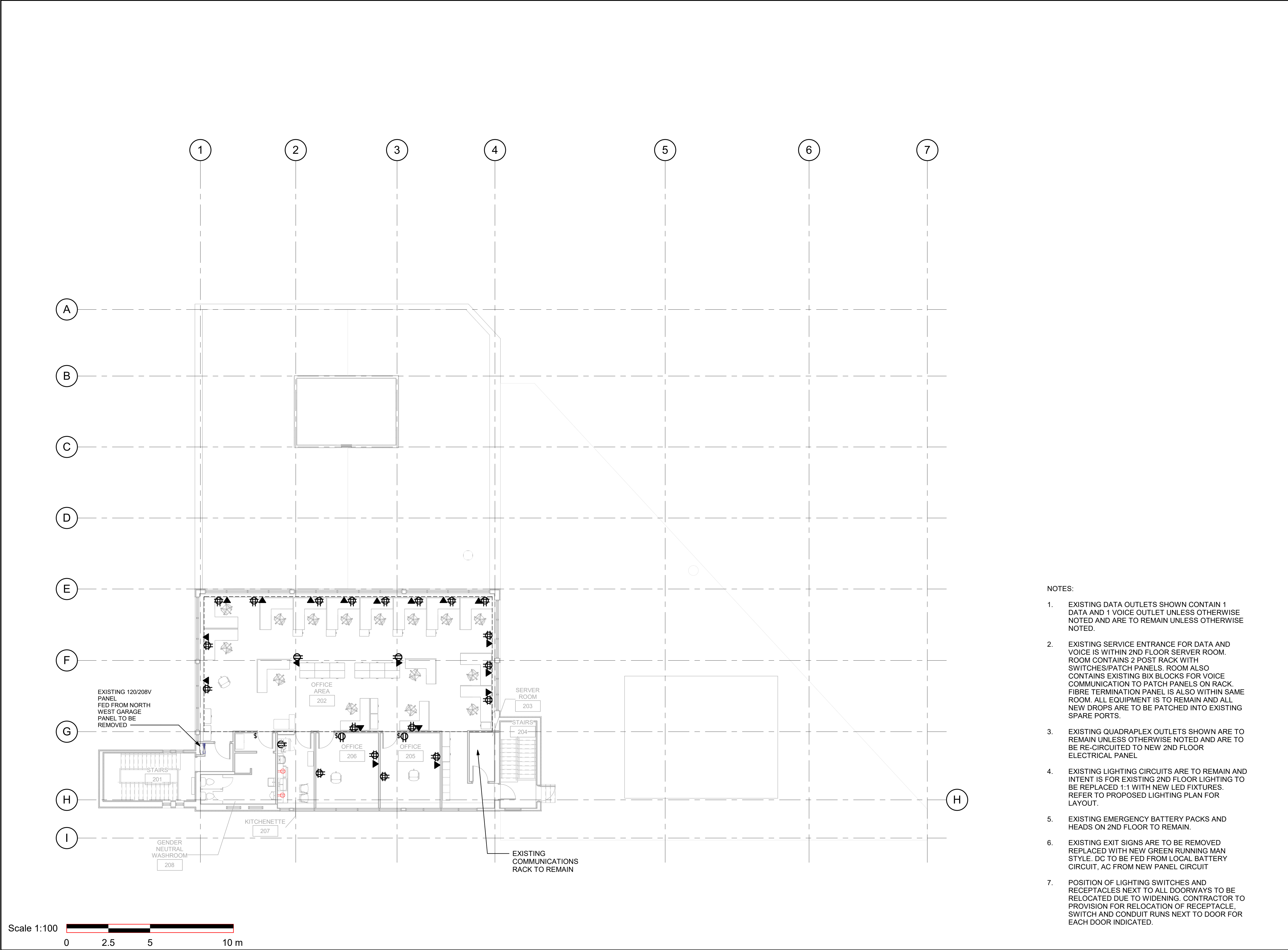
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PROJECT ADDRESS
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1116 KING STREET WEST

PROJECT NO:
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M.B
PROJECT MGR:
N.L
CHECKED BY:
L. S.
APPROVED BY:
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SHEET TITLE
**FIRST FLOOR PLAN
ELECTRICAL - DEMOLITION**

SHEET NUMBER
E101
ISSUE
G



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PROJECT ADDRESS

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BUILDING NO. 8 & 9
1116 KING STREET WEST

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PROJECT MGR:
N. L.

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SHEET TITLE

SECOND FLOOR PLAN
ELECTRICAL - DEMOLITION

SHEET NUMBER

E102

ISSUE

G

- NOTES:
1.

EXISTING DATA OUTLETS SHOWN CONTAIN 1 DATA AND 1 VOICE OUTLET UNLESS OTHERWISE NOTED AND ARE TO REMAIN UNLESS OTHERWISE NOTED.
2.

EXISTING SERVICE ENTRANCE FOR DATA AND VOICE IS WITHIN 2ND FLOOR SERVER ROOM. ROOM CONTAINS 2 POST RACK WITH SWITCHES/PATCH PANELS. ROOM ALSO CONTAINS EXISTING BIX BLOCKS FOR VOICE COMMUNICATION TO PATCH PANELS ON RACK. FIBRE TERMINATION PANEL IS ALSO WITHIN SAME ROOM. ALL EQUIPMENT IS TO REMAIN AND ALL NEW DROPS ARE TO BE PATCHED INTO EXISTING SPARE PORTS.
3.

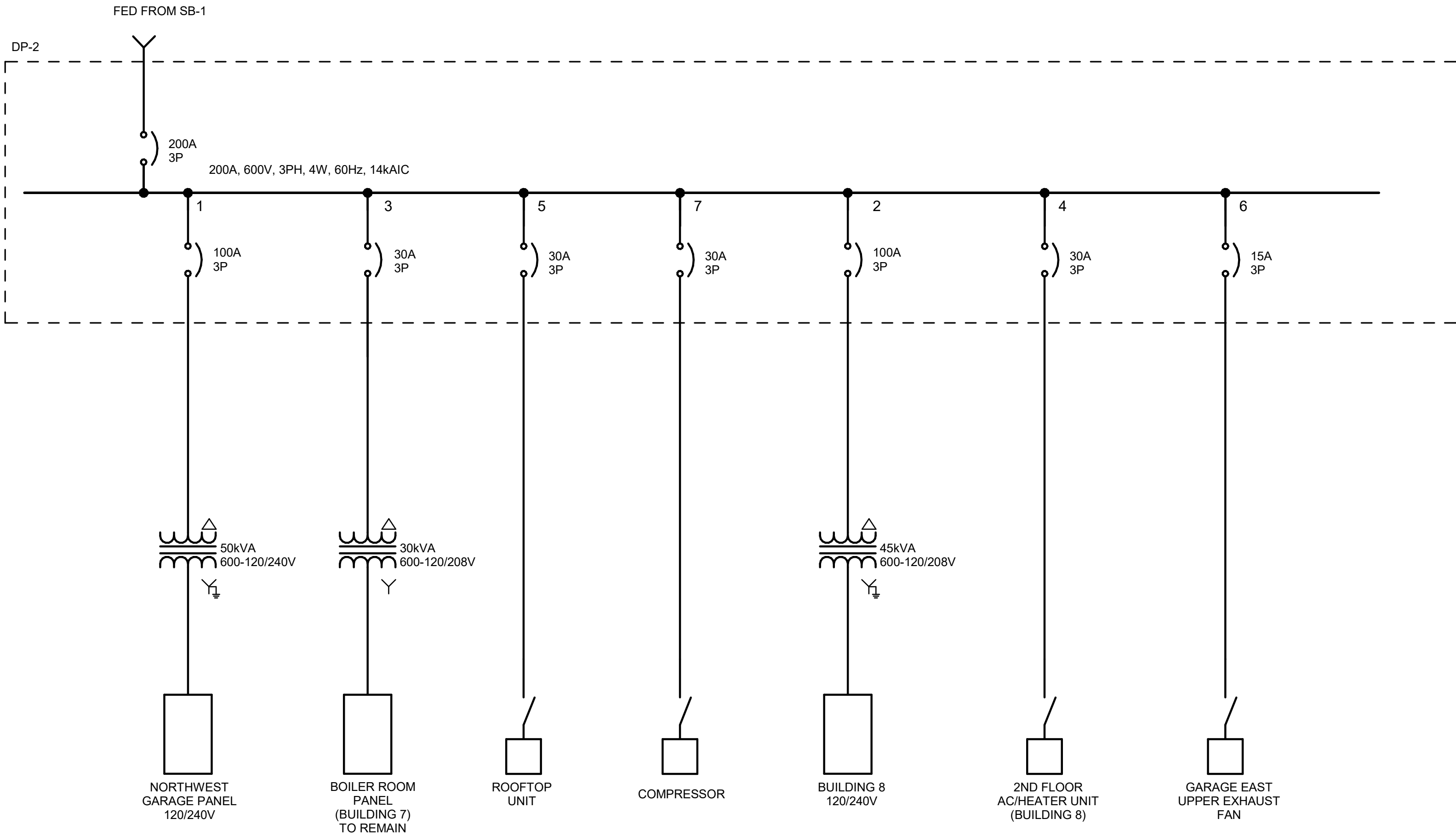
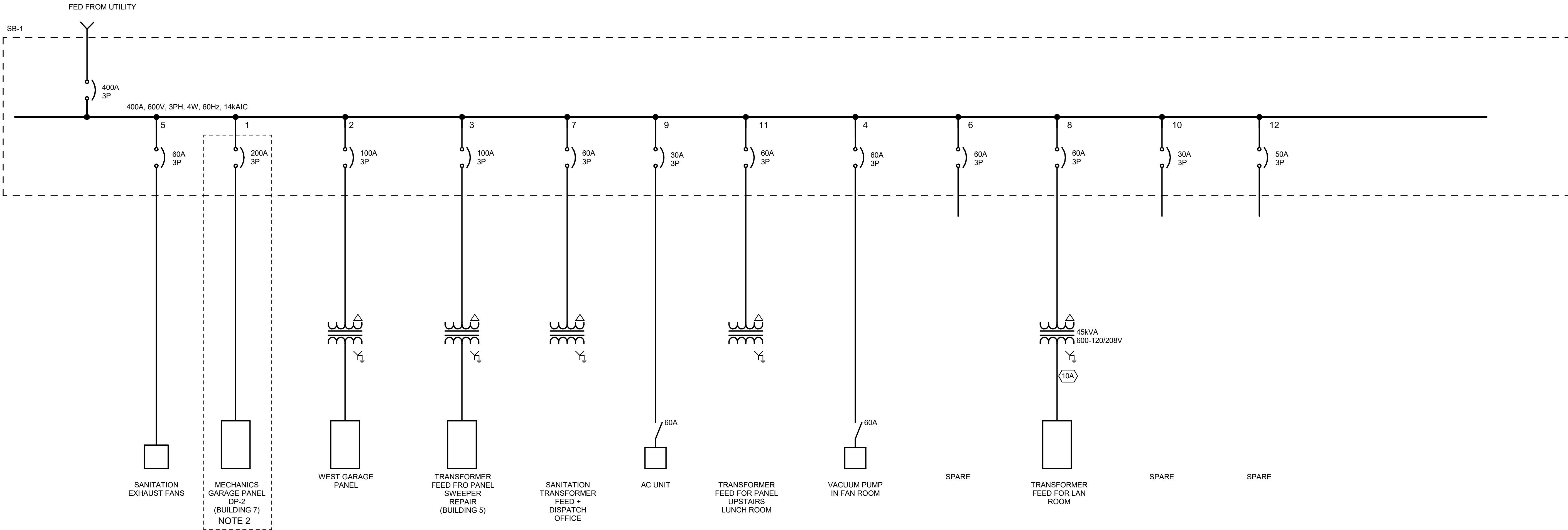
EXISTING QUADRAPLEX OUTLETS SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED AND ARE TO BE RE-CIRCUITED TO NEW 2ND FLOOR ELECTRICAL PANEL
4.

EXISTING LIGHTING CIRCUITS ARE TO REMAIN AND INTENT IS FOR EXISTING 2ND FLOOR LIGHTING TO BE REPLACED 1:1 WITH NEW LED FIXTURES. REFER TO PROPOSED LIGHTING PLAN FOR LAYOUT.
5.

EXISTING EMERGENCY BATTERY PACKS AND HEADS ON 2ND FLOOR TO REMAIN.
6.

EXISTING EXIT SIGNS ARE TO BE REMOVED REPLACED WITH NEW GREEN RUNNING MAN STYLE. DC TO BE FED FROM LOCAL BATTERY CIRCUIT, AC FROM NEW PANEL CIRCUIT
7.

POSITION OF LIGHTING SWITCHES AND RECEPTACLES NEXT TO ALL DOORWAYS TO BE RELOCATED DUE TO WIDENING. CONTRACTOR TO PROVISION FOR RELOCATION OF RECEPTACLE, SWITCH AND CONDUIT RUNS NEXT TO DOOR FOR EACH DOOR INDICATED.



LEGEND

----- REMOVAL

NOTES:

- ALL EXISTING SINGLE LINE INFORMATION IS FROM ON SITE OBSERVATION AND READING OF PANEL SCHEDULES. CONTRACTOR TO SITE VERIFY ALL CONNECTIONS AND VALIDATE ALL FEEDS ARE PER THIS SINGLE LINE. IF DISCREPANCIES ARE FOUND, IMMEDIATELY INFORM CONSULTANT.
- THIS PANEL IS ASSUMED TO BE MAIN FEED FOR LOADS IN BUILDING 8 AND 9. CONTRACTOR TO VERIFY ON SITE
- PANEL DP-2 IS TO BE REMOVED AND REPLACED WITH NEW IN SAME POSITION. EXISTING SB-1 IS TO BE MODIFIED UNDER A DIFFERENT CONTRACT.

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tel 416 679 1930
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PROJECT TITLE

TORONTO PARAMEDIC SERVICES
FLEET MAINTENANCE STATION -
UPGRADE WORKS

PROJECT ADDRESS

KING STREET YARD -
BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
M.B

CHECKED BY:
L. S.

PROJECT MGR:
N. L.

APPROVED BY:
F.R

SHEET TITLE

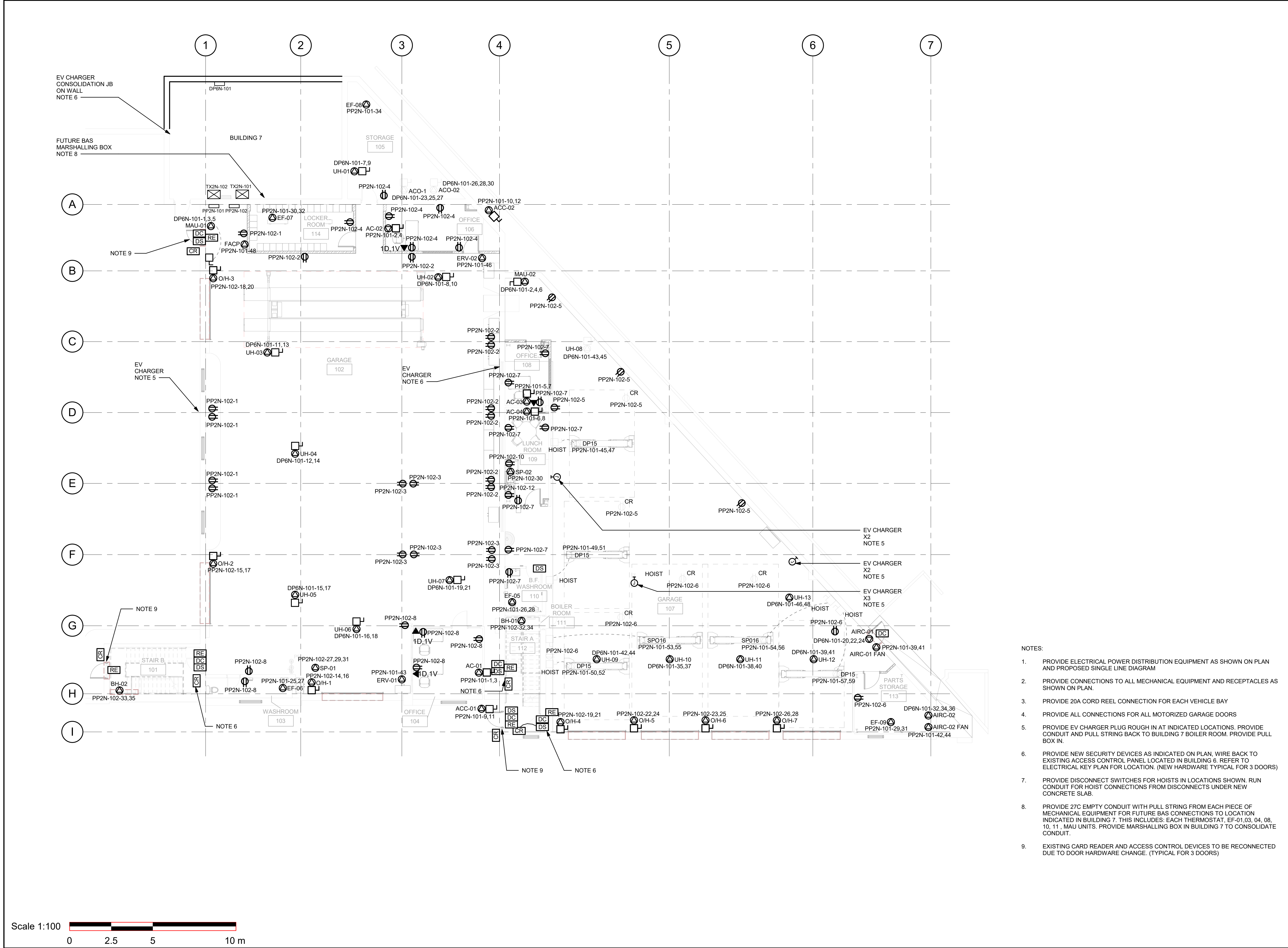
ELECTRICAL EXISTING
SINGLE LINE DIAGRAM

SHEET NUMBER

E110

ISSUE

G



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BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO:
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SHEET TITLE

FIRST FLOOR PLAN POWER &
SYSTEMS - PROPOSED

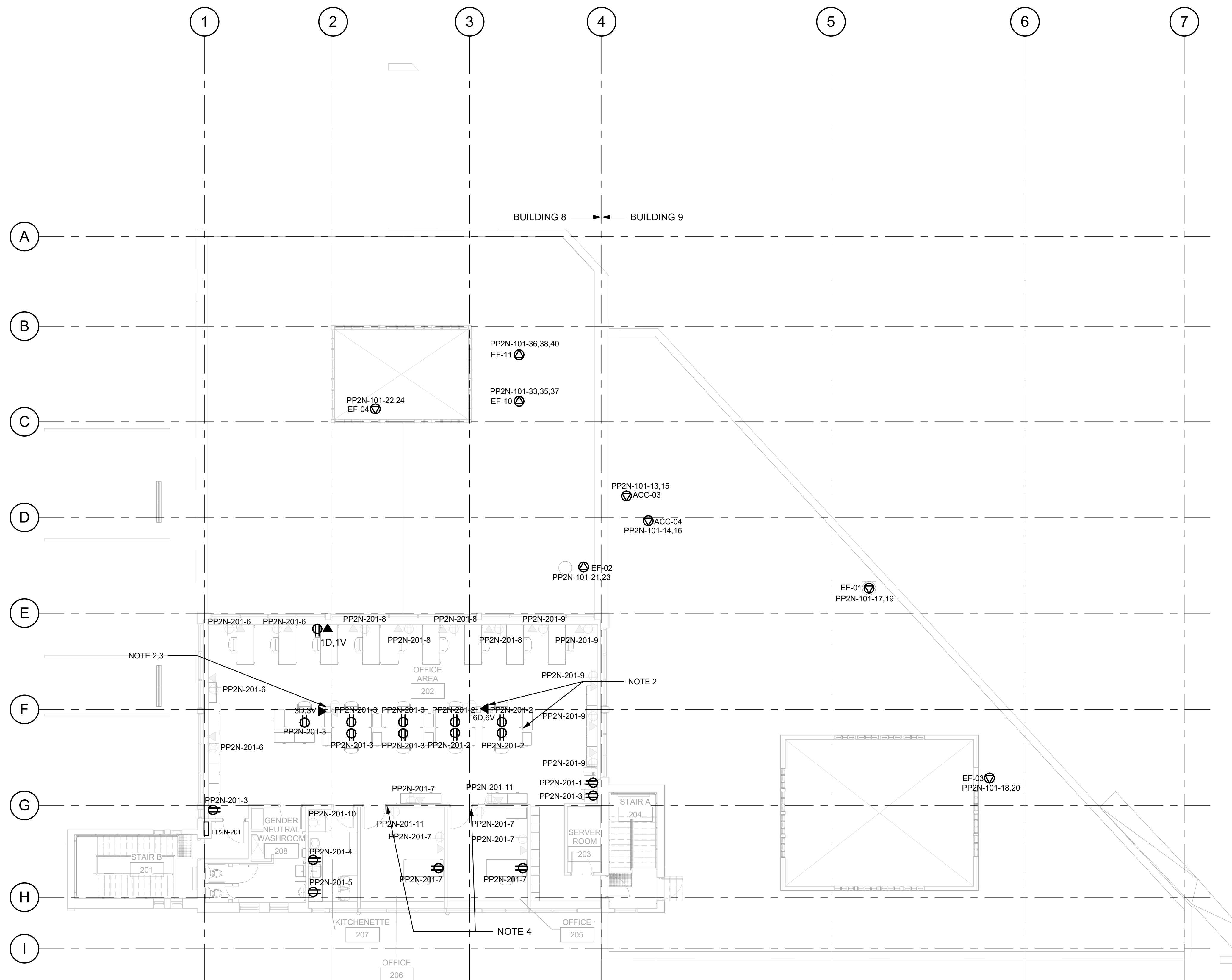
SHEET NUMBER

E201

ISSUE


G

- NOTES:
- PROVIDE ELECTRICAL POWER DISTRIBUTION EQUIPMENT AS SHOWN ON PLAN AND PROPOSED SINGLE LINE DIAGRAM
 - PROVIDE CONNECTIONS TO ALL MECHANICAL EQUIPMENT AND RECEPTACLES AS SHOWN ON PLAN.
 - PROVIDE 20A CORD REEL CONNECTION FOR EACH VEHICLE BAY
 - PROVIDE ALL CONNECTIONS FOR ALL MOTORIZED GARAGE DOORS
 - PROVIDE EV CHARGER PLUG ROUGH IN AT INDICATED LOCATIONS. PROVIDE CONDUIT AND PULL STRING BACK TO BUILDING 6, REFER TO ELECTRICAL KEY PLAN FOR LOCATION. (NEW HARDWARE TYPICAL FOR 3 DOORS)
 - PROVIDE NEW SECURITY DEVICES AS INDICATED ON PLAN. WIRE BACK TO EXISTING ACCESS CONTROL PANEL LOCATED IN BUILDING 6, REFER TO ELECTRICAL KEY PLAN FOR LOCATION. (NEW HARDWARE TYPICAL FOR 3 DOORS)
 - PROVIDE DISCONNECT SWITCHES FOR HOISTS IN LOCATIONS SHOWN. RUN CONDUIT FOR HOIST CONNECTIONS FROM DISCONNECTS UNDER NEW CONCRETE SLAB.
 - PROVIDE 27C EMPTY CONDUIT WITH PULL STRING FROM EACH PIECE OF MECHANICAL EQUIPMENT FOR FUTURE BAS CONNECTIONS TO LOCATION INDICATED IN BUILDING 7. THIS INCLUDES: EACH THERMOSTAT, EF-01,03, 04, 08, 10, 11, MAU UNITS. PROVIDE MARSHALLING BOX IN BUILDING 7 TO CONSOLIDATE CONDUIT.
 - EXISTING CARD READER AND ACCESS CONTROL DEVICES TO BE RECONNECTED DUE TO DOOR HARDWARE CHANGE. (TYPICAL FOR 3 DOORS)




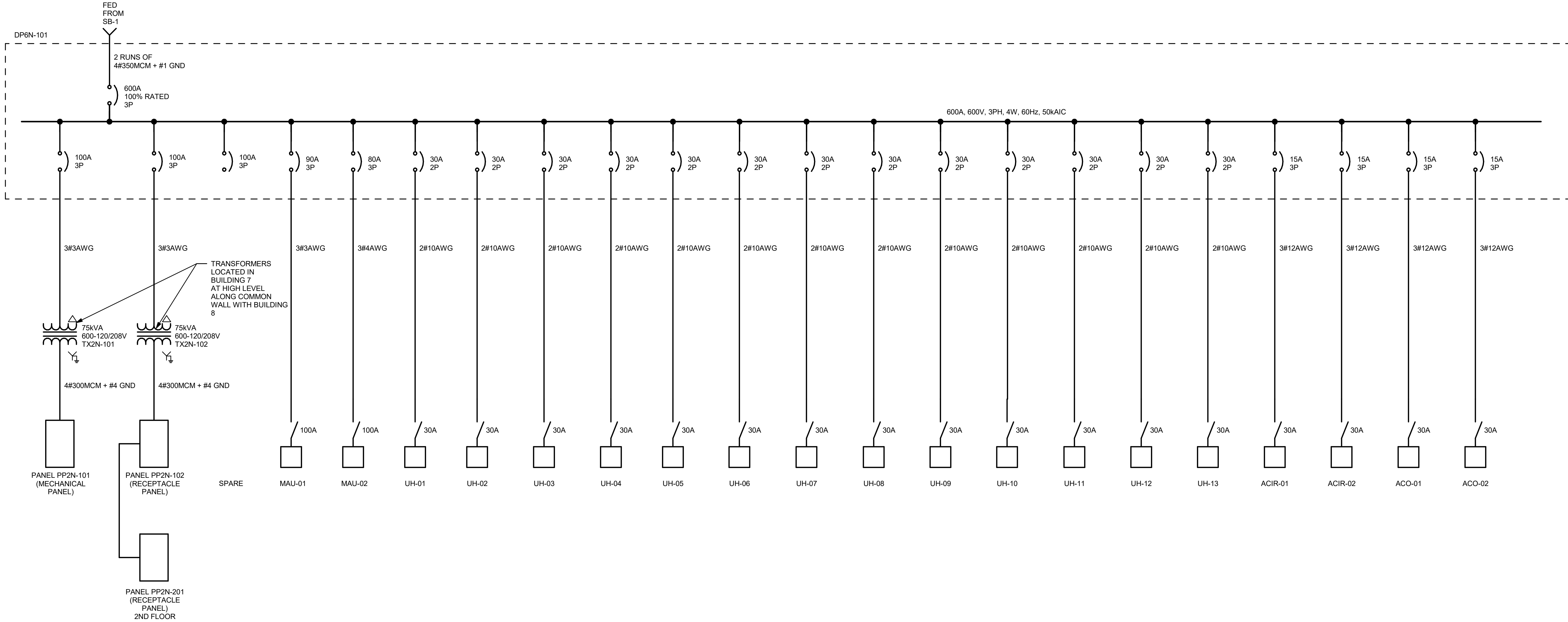
1. PROVIDE NEW ELECTRICAL RECEPTACLES AS INDICATED ON PLAN. FEED FROM NEW 2ND FLOOR PANEL. EXISTING PANEL TO BE INSTALLED IN SAME LOCATION AS EXISTING AND RE-FED FROM NEW DISTRIBUTION. INVENTORY EXISTING PANEL AND VERIFY CIRCUITS PRIOR TO RE-CONNECTION TO NEW. COMPILE LIST OF ORPHANED CIRCUITS AS A SHOP DRAWING FOR CONSULTANT TO INDICATE NEW CIRCUITS IF NECESSARY.
2. FURNITURE FEED:
 - A. FOR PERIMETER FURNITURE POWER AND DATA FEEDS, EXISTING PERIMETER RECEPTACLES ARE TO BE USED/MODIFIED ACCORDINGLY.
 - B. FOR CENTER FURNITURE FEED, CIRCUITS WILL PROCEED FROM COLUMN VIA WHIP CONNECTION TO FURNITURE POWER SPINE. SPINE WILL HAVE BUILT IN RECEPTACLE BELOW DESK LEVEL. RECEPTACLES SHOWN ARE FOR ILLUSTRATIVE PURPOSES AND ARE PART OF THE FURNITURE SYSTEM.
 - C. FOR DATA/VOICE FEED, WILL PROCEED SAME AS POWER WITH DATA/VOICE JACK ON COLUMN, WITH PATCH CORDS EXTENDING FROM COLUMN VIA FURNITURE SPINE AND THROUGH GROMMET BELOW DESK (NO JACK IN SPINE). EXISTING PERIMETER FEED VOICE/DATA ARE 1D/1V JACKS UNLESS OTHERWISE NOTED. BLUE CABLES FOR DATA, GREY FOR VOICE.
3. PROVIDE CAT6 CABLING FOR ALL NEW JACKS INDICATED BACK TO EXISTING PATCH PANEL IN 2ND FLOOR HUB ROOM
4. RELOCATE EXISTING LIGHTING SWITCH, RECEPTACLE DUE TO DOOR WIDENING.

Scale 1:100

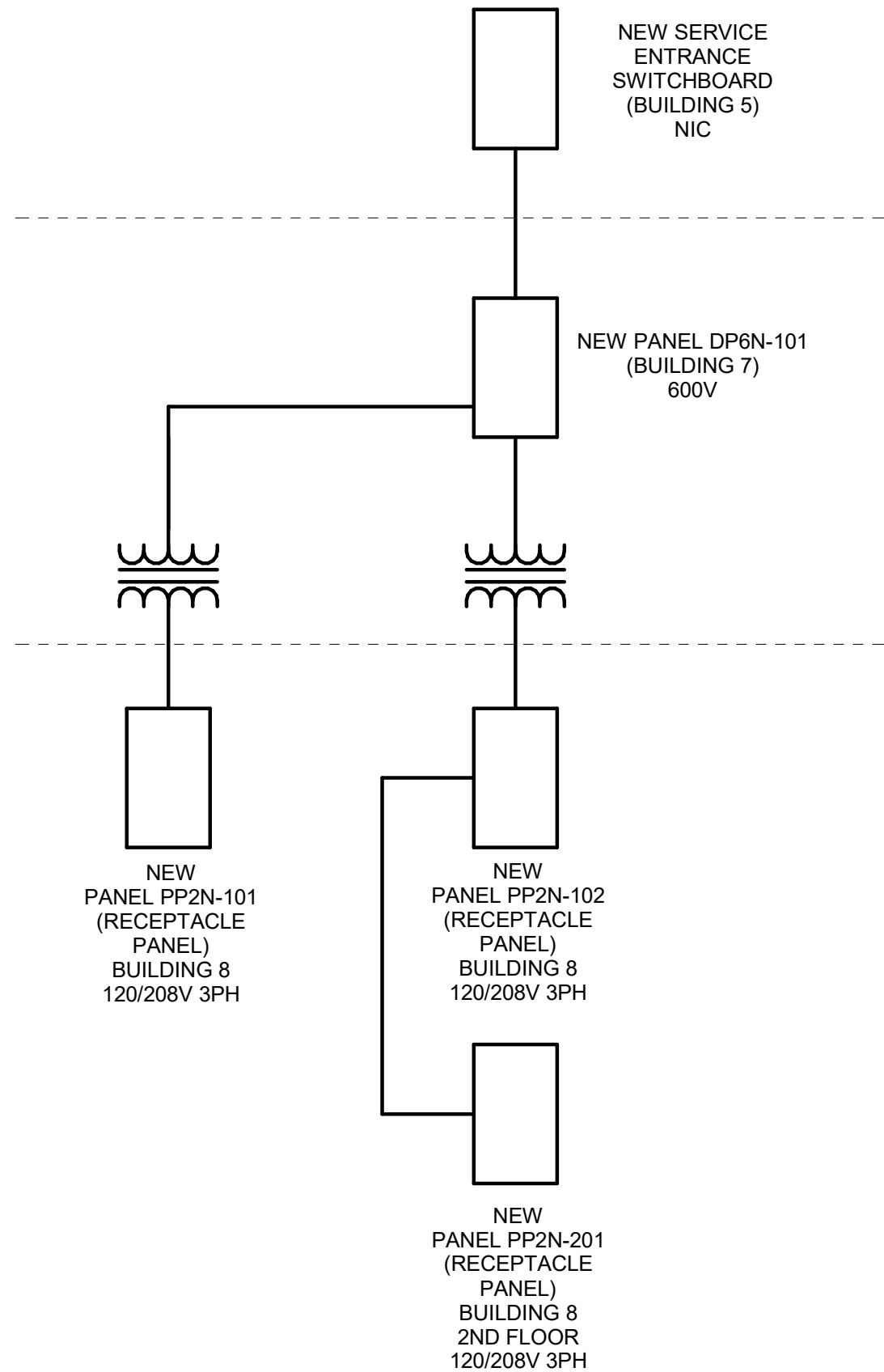


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PROJECT TITLE		
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PROJECT ADDRESS		
KING STREET YARD - BUILDING NO. 8 & 9 1116 KING STREET WEST		
PROJECT NO: 30276606		
DRAWN BY: M.B.	CHECKED BY: L. S.	
PROJECT MGR: N. L.	APPROVED BY: F.R.	
SHEET TITLE		
SECOND FLOOR PLAN POWER & SYSTEMS - PROPOSED		
SHEET NUMBER		ISSUE
E202		G



TRANSFORMERS
LOCATED IN
BUILDING 7
AT HIGH LEVEL
ALONG COMMON
WALL WITH BUILDING
8



SIMPLIFIED SINGLE LINE DIAGRAM

NOTES:

- EXISTING SERVICE ENTRANCE SB-1 IS TO BE UPGRADED UNDER A SEPARATE CONTRACT. CONTRACTOR IS TO RUN CONDUIT AND CABLE FROM BUILDING 7 TO BUILDING 5, PROVIDE A PULL BOX AND COILED CABLE SUCH THAT THE SERVICE UPGRADE CONTRACTOR IS ABLE TO TAKE CABLE AND TERMINATE ONTO NEW SWITCHBOARD BREAKER.
- PROVIDE NEW SWITCHBOARD PP6N-101 TO SUPPLY NEW LOADS FOR BUILDING 8 AND 9.
- PROVIDE NEW TRANSFORMERS AND 120/208V PANELS AS INDICATED.

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KING STREET YARD -
BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
M.B

PROJECT MGR:
N.L

CHECKED BY:
L. S.

APPROVED BY:
F.R

SHEET TITLE

ELECTRICAL SINGLE LINE
DIAGRAM - PROPOSED

SHEET NUMBER

E210

ISSUE

G

Branch Panel: PP2N-102													
Location: GARAGE 102				Volts: 208Y/120				A.I.C. Rating:					
Supply From: TX2N-102				Phases: 3				Mains Type: SPD					
Mounting: Surface				Wires: 4				Mains Rating: 225 A					
Enclosure: Type 1				MCB Rating: 225 A									
Notes:													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RCT (6) - FIRST FLR ROOM #102	20 A	1	900 VA	1440...					1	20 A	RCT (8) - FIRST FLR ROOM #102	2
3	RCT (6) - FIRST FLR ROOM #102	20 A	1			1080...	1080...			1	20 A	RCT (6) - FIRST FLR ROOM #102,#112	4
5	RCT (6) - FIRST FLR ROOM #107	20 A	1					1080...	1080...	1	20 A	RCT (6) - FIRST FLR ROOM #107,#113	6
7	RCT (6) - FIRST FLR ROOM #108,#109,#110	20 A	1	1440...	1080...					1	20 A	RCT (4) - FIRST FLR ROOM #103,#104	8
9	PP2N-201 - SECOND FLR	100 A	3			3780...	180 VA			1	20 A	RCT (1) - FIRST FLR ROOM #109	10
11								3420...	180 VA	1	20 A	RCT (1) - FIRST FLR ROOM #109	12
13				2340...	2340...					2	30 A	O/H-1 - FIRST FLR ROOM #102	14
15	O/H-2 - FIRST FLR ROOM #102	30 A	2			2340...	2340...						16
17								2340...	2340...	2	30 A	O/H-3 - FIRST FLR ROOM #102	18
19	O/H-4 - FIRST FLR ROOM #107	30 A	2	2340...	2340...					2	30 A	O/H-5 - FIRST FLR ROOM #107	20
21						2340...	2340...						22
23	O/H-6 - FIRST FLR ROOM #107	30 A	2					2340...	2340...				24
25				2340...	2340...					2	30 A	O/H-7 - FIRST FLR ROOM #107	26
27						233 VA	2340...						28
29	SP-01 - FIRST FLR ROOM #102	15 A	3					233 VA	300 VA	1	15 A	SP-02 - FIRST FLR ROOM #109	30
31				233 VA	750 VA					2	15 A	BH-01 - FIRST FLR STAIR A #112	32
33	BH-02 - FIRST FLR STAIR B #101	15 A	2			750 VA	750 VA						34
35								750 VA	60 VA	1	20 A	Exit Lighting	36
37	LITES	20 A	1	921 VA	921 VA					1	20 A	LITES	38
39	LITES	20 A	1			1121...	900 VA			1	20 A	Lighting	40
41	LITES	20 A	1					0 VA	250 VA	1	20 A	LITES	42
43	LITES	20 A	1	0 VA									44
45													46
47													48
49													50
51													52
53													54
55													56
57													58
59													60
61													62
63													64
65													66
67													68
69													70
71													72
Total Load:				21299 VA		21165 VA		16401 VA					
Total Amps:				184 A		182 A		137 A					
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Power		36760 VA		100.00%		36760 VA							
Lighting		4050 VA		100.00%		4050 VA		Total Conn. Load: 58863 VA					
Exit Lighting		60 VA		100.00%		60 VA		Total Est. Demand: 54487 VA					
LITES		63 VA		125.00%		79 VA		Total Conn. Current: 163 A					
RCT		19080 VA		76.21%		14540 VA		Total Est. Demand Current: 151 A					
Notes:													

Branch Panel: PP2N-101													
Location: GARAGE 102						Volts: 208Y/120				A.I.C. Rating:			
Supply From: TX2N-101						Phases: 3				Mains Type: SPD			
Mounting: SURFACE						Wires: 4				Mains Rating: 225 A			
Enclosure: Type 1										MCB Rating: 225 A			
Notes:													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	AC-01 - FIRST FLR OFFICE #104	15 A	2	15 VA	15 VA					2	15 A	AC-02 - FIRST FLR OFFICE #106	2
3						15 VA	15 VA						4
5	AC-03 - FIRST FLR OFFICE #108	15 A	2	15 VA	15 VA			15 VA	15 VA	2	15 A	AC-04 - FIRST FLR LUNCH ROOM #109	6
7													8
9	ACC-01 - FIRST FLR OFFICE #104 OUTSIDE	15 A	2			52 VA	52 VA			2	15 A	ACC-02 - FIRST FLR OFFICE #106 OUTSIDE	10
11								52 VA	52 VA				12
13	ACC-03 - FIRST FLR OFFICE #108 ROOF	15 A	2	52 VA	52 VA	52 VA	52 VA			2	15 A	ACC-04 - FIRST FLR LUNCH ROOM #109 ROOF	14
15													16
17	EF-01 - BUILDING 9 ROOF	20 A	2	1300...	1300...			1300...	1300...	2	20 A	EF-03 - BUILDING 9 ROOF	18
19													20
21	EF-02 - BUILDING 8 ROOF	20 A	2			1300...	1300...			2	20 A	EF-04 - BUILDING 8 ROOF	22
23								1300...	1300...				24
25	EF-06 - FIRST FLR ROOM #103	20 A	2	177 VA	177 VA					2	20 A	EF-05 - FIRST FLR ROOM #110	26
27						177 VA	177 VA						28
29	EF-09 - FIRST FLR ROOM #113	20 A	2	177 VA	177 VA			177 VA	177 VA	2	20 A	EF-07 - FIRST FLR ROOM #114	30
31													32
33						1325...	736 VA			1	20 A	EF-08 - FIRST FLR ROOM #105	34
35	EF-010 - BUILDING 8 ROOF	15 A	3					1325...	1325...				36
37				1325...	1325...					3	15 A	EF-011 - BUILDING 8 ROOF	38
39	AIRC-01 FAN - FIRST FLR ROOM #107	15 A	2			52 VA	1325...						40
41								52 VA	52 VA				42
43	ERV-01 - FIRST FLR ROOM #102	15 A	1	102 VA	52 VA					2	15 A	AIRC-02 FAN - FIRST FLR ROOM #113	44
45	DP15 HOIST - FIRST FLR ROOM #107	25 A	2			1768...	102 VA			1	15 A	ERV-02 - FIRST FLR ROOM #102	46
47								1768...	500 VA	1	15 A	FACP PANEL - FIRST FLR ROOM #102	48
49	DP15 HOIST - FIRST FLR ROOM #107	25 A	2	1768...	1768...					2	25 A	DP15 HOIST - FIRST FLR ROOM #107	50
51						1768...	1768...						52
53	SP016 HOIST - FIRST FLR ROOM #107	30 A	2	2718...	2718...			2718...	2718...	2	30 A	SP016 HOIST - FIRST FLR ROOM #107	54
55													56
57	DP15 HOIST - FIRST FLR ROOM #107	25 A	2			1768...							58
59								1768...					60
61													62
63													64
65													66
67													68
69													70
71													72
73													74
75													76
77													78
79													80
81													82
83													84
Total Load:				15246 VA		13803 VA		17912 VA					
Total Amps:				129 A		115 A		151 A					
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Power		46962 VA		100.00%		46962 VA							
								Total Conn. Load: 46962 VA					
								Total Est. Demand: 46962 VA					
								Total Conn. Current: 130 A					
								Total Est. Demand Current: 130 A					
Notes:													

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No.	DESCRIPTION	DATE
B	ISSUED FOR 75% DESIGN	2025-11-05
C	ISSUED FOR 95% DESIGN	2025-12-01
D	ISSUED FOR 100% DESIGN	2025-12-10
E	ISSUED FOR PERMIT	2025-12-10
F	ISSUED FOR TENDER	2025-12-10
G	ISSUED FOR TENDER REV. 01	2025-12-23

Branch Panel: PP2N-201

Location:
Supply From: PP2N-102
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: SPD
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RCT	20 A	1	180 VA	720 VA					1	20 A	RCT (7) - SECOND FLR ROOM #202	2
3	RCT (7) - SECOND FLR ROOM #202	20 A	1			1260...	180 VA			1	20 A	RCT (1) - SECOND FLR ROOM #207	4
5	RCT (1) - SECOND FLR ROOM #207	20 A	1					180 VA	1440...	1	20 A	RCT (4) - SECOND FLR ROOM #202	6
7	RCT (3) - SECOND FLR ROOM #203, #205, #206	20 A	1	1440...	1440...					1	20 A	RCT (4) - SECOND FLR ROOM #202	8
9	RCT (5) - SECOND FLR ROOM #202	20 A	1			1800...	180 VA			1	20 A	RCT (1) - SECOND FLR ROOM #207	10
11	RCT (2) - SECOND FLR ROOM #202,#206	20 A	1					720 VA					12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
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45													46
47													48
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55													56
57													58
59													60
Total Load:				3780 VA		3420 VA		2340 VA					
Total Amps:				33 A		30 A		20 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RCT	9540 VA	100.00%	9540 VA	Total Conn. Load:	9540 VA
				Total Est. Demand:	9540 VA
				Total Conn. Current:	26 A
				Total Est. Demand Current:	26 A

Notes:

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F	ISSUED FOR TENDER	2025-12-10
G	ISSUED FOR TENDER REV. 01	2025-12-23

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Toronto, ON M9W 0C9, Canada
tel 416 679 1930
www.arcadis.com

PROJECT TITLE

TORONTO PARAMEDIC SERVICES
FLEET MAINTENANCE STATION -
UPGRADE WORKS

PROJECT ADDRESS

KING STREET YARD -
BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
M.B

CHECKED BY:
L. S.

PROJECT MGR:
N. L.

APPROVED BY:
F.R

SHEET TITLE

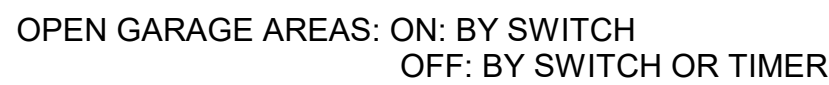
ELECTRICAL PANEL
SCHEDULES 02 - PROPOSED

SHEET NUMBER

E212

ISSUE

G



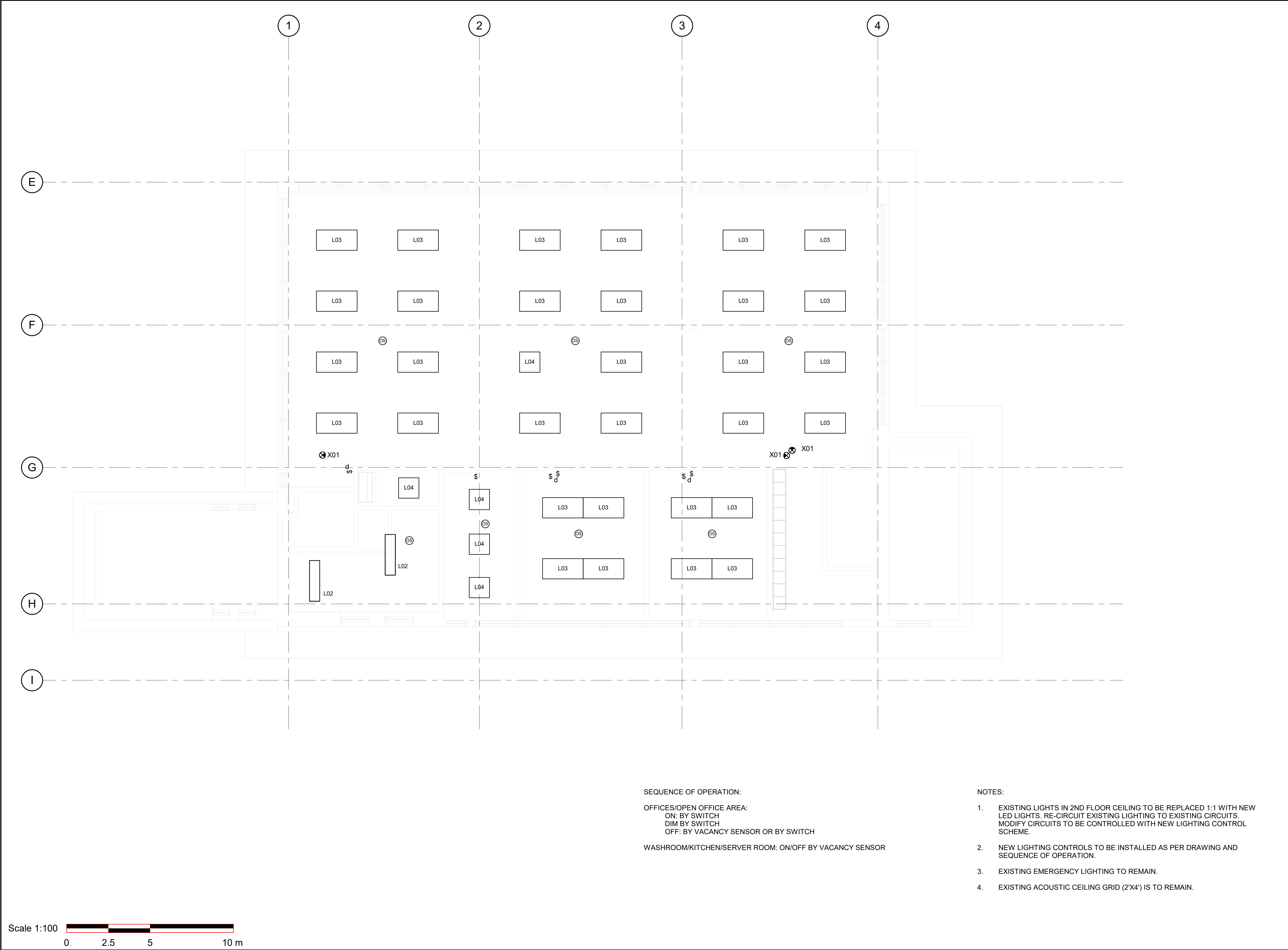
2025-12-24 10:00:29 AM

6. EMERGENCY LIGHTING BATTERY PACK TO BE FED FROM NORMAL CIRCUIT OF LIGHTING WITHIN THE SAME SPACE AS THAT BATTERY PACK. EXIT SIGNS TO BE ON DEDICATED CIRCUITS.

G

Autodesk Docs://ACA-30267599-TPSEMS 1116KingStW/30267599 CoT-1116KINGW-14.CENTRAL-R24.M

1003



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FLEET MAINTENANCE STATION -
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PROJECT ADDRESS

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1116 KING STREET WEST

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30276606

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F.R

SHEET TITLE

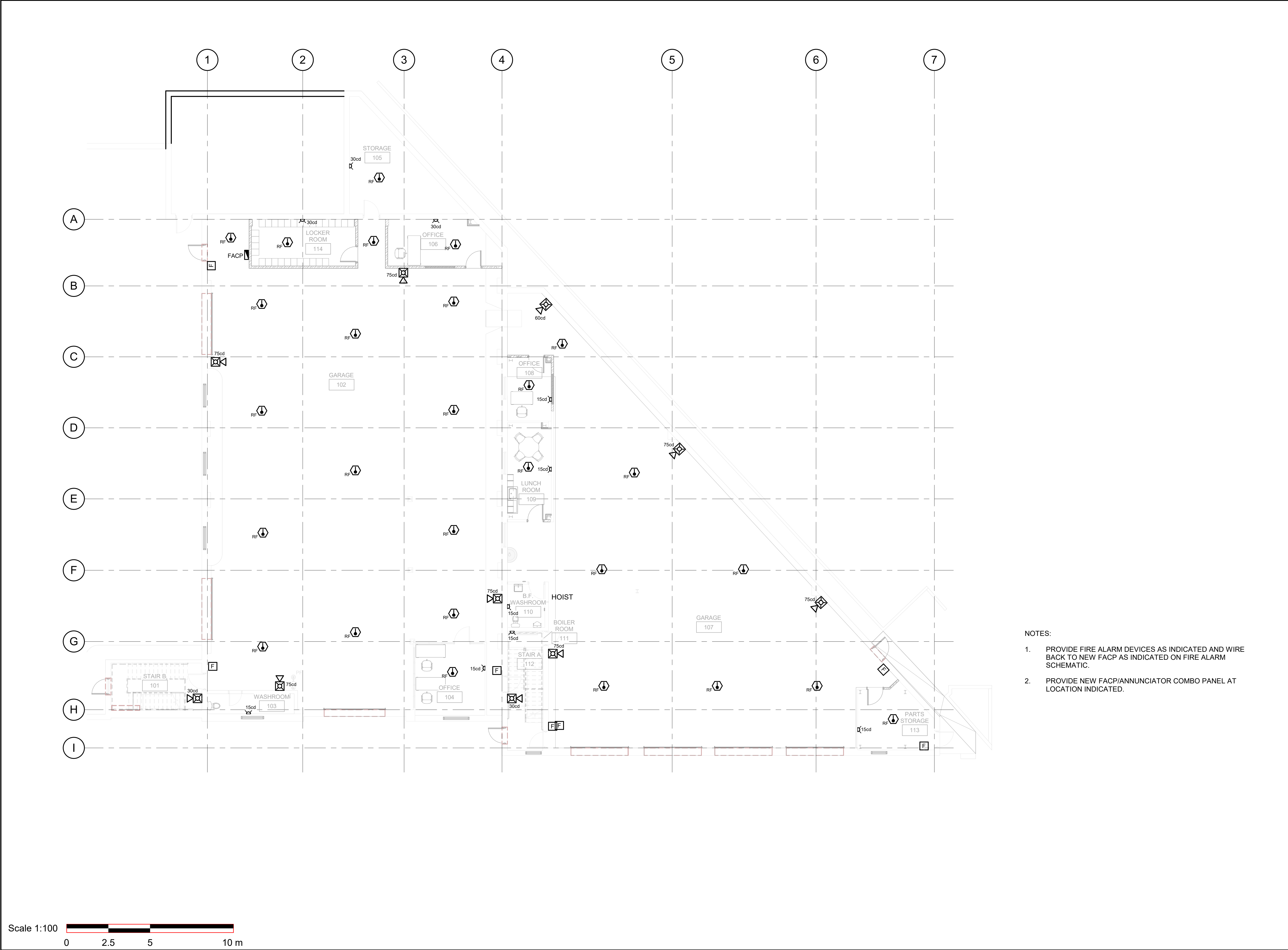
SECOND FLOOR PLAN
LIGHTING - PROPOSED

SHEET NUMBER

E302

ISSUE

G



- NOTES:
1. PROVIDE FIRE ALARM DEVICES AS INDICATED AND WIRE BACK TO NEW FACP AS INDICATED ON FIRE ALARM SCHEMATIC.
 2. PROVIDE NEW FACP/ANNUNCIATOR COMBO PANEL AT LOCATION INDICATED.

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F	ISSUED FOR TENDER	2025-12-10
G	ISSUED FOR TENDER REV. 01	2025-12-23

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tel 416 679 1930
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PROJECT TITLE

TORONTO PARAMEDIC SERVICES
FLEET MAINTENANCE STATION -
UPGRADE WORKS

PROJECT ADDRESS

KING STREET YARD -
BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
M.B

CHECKED BY:
L. S.

PROJECT MGR:
N. L.

APPROVED BY:
F.R

SHEET TITLE

FIRST FLOOR PLAN FIRE
ALARM - PROPOSED

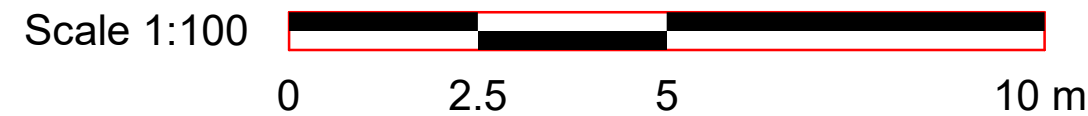
SHEET NUMBER

E401

ISSUE

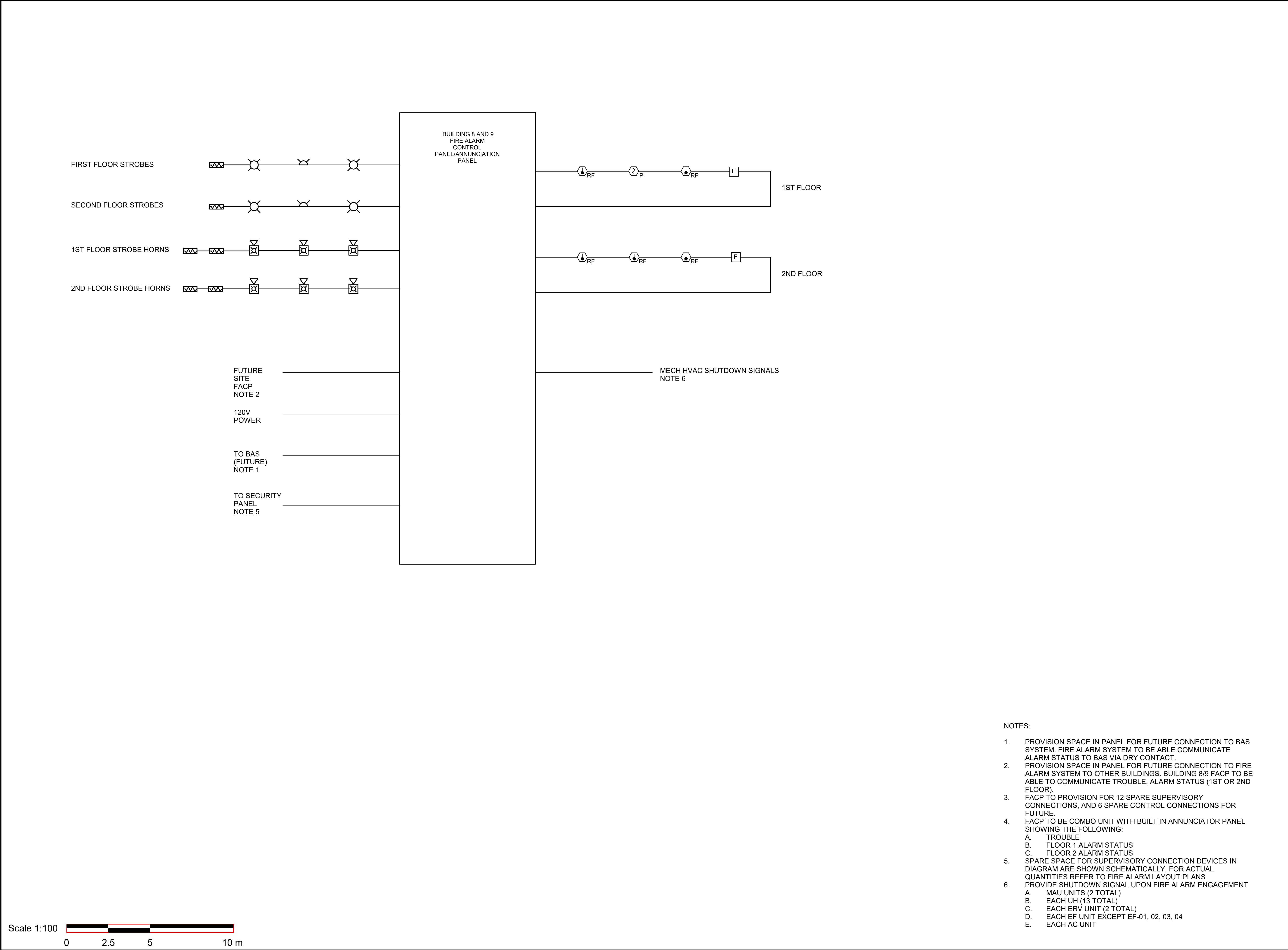
G

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SCALE CHECK

G



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G	ISSUED FOR TENDER REV. 01	2025-12-23

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tel 416 679 1930
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L. S.

PROJECT MGR:
N. L.

APPROVED BY:
F.R

SHEET TITLE

FIRE ALARM SCHEMATIC

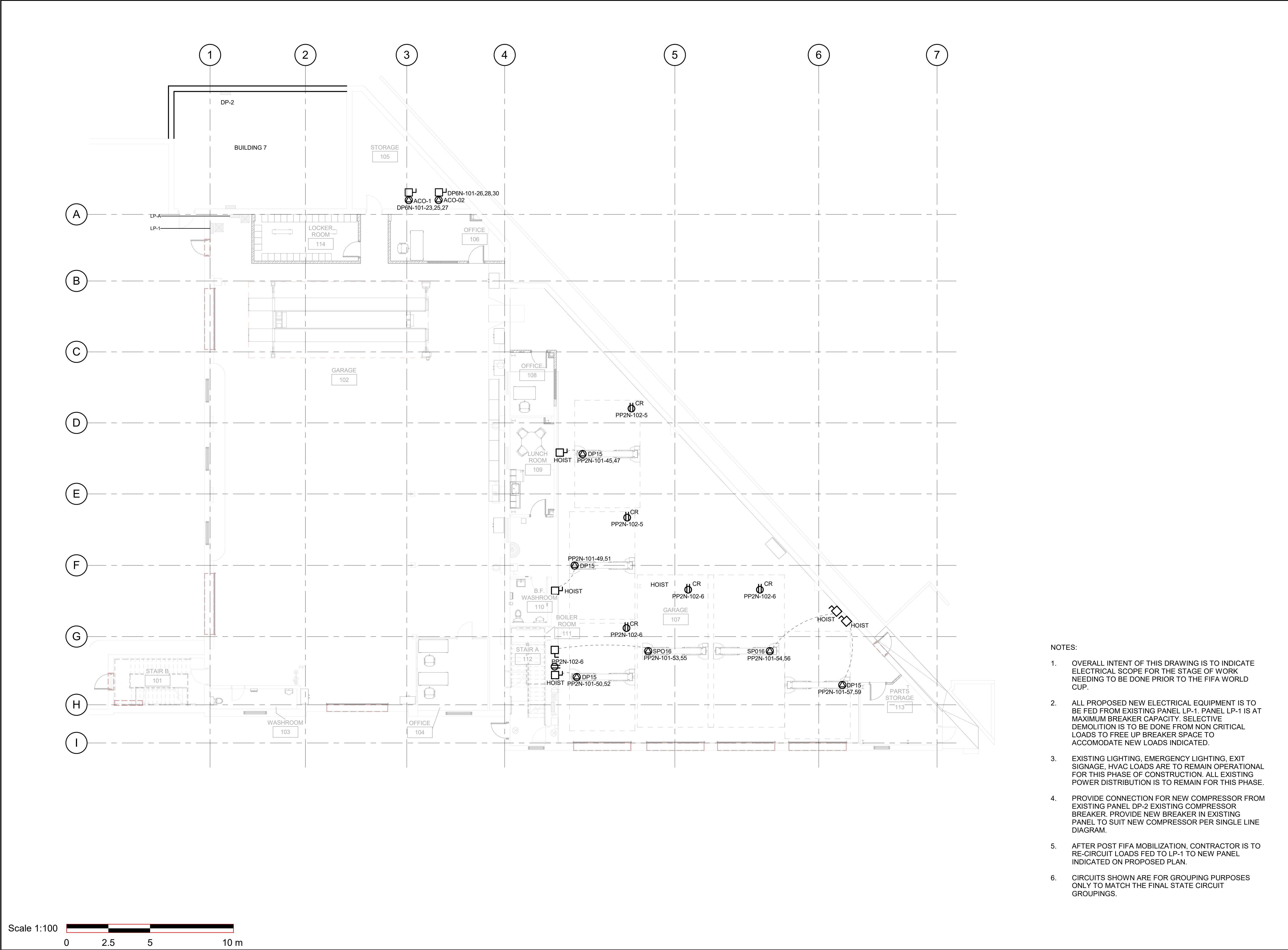
SHEET NUMBER

E403

ISSUE

G

- NOTES:
- PROVISION SPACE IN PANEL FOR FUTURE CONNECTION TO BAS SYSTEM. FIRE ALARM SYSTEM TO BE ABLE COMMUNICATE ALARM STATUS TO BAS VIA DRY CONTACT.
 - PROVISION SPACE IN PANEL FOR FUTURE CONNECTION TO FIRE ALARM SYSTEM TO OTHER BUILDINGS. BUILDING 8/9 FACP TO BE ABLE TO COMMUNICATE TROUBLE, ALARM STATUS (1ST OR 2ND FLOOR).
 - FACP TO PROVISION FOR 12 SPARE SUPERVISORY CONNECTIONS, AND 6 SPARE CONTROL CONNECTIONS FOR FUTURE.
 - FACP TO BE COMBO UNIT WITH BUILT IN ANNUNCIATOR PANEL SHOWING THE FOLLOWING:
 - A. TROUBLE
 - B. FLOOR 1 ALARM STATUS
 - C. FLOOR 2 ALARM STATUS
 - SPARE SPACE FOR SUPERVISORY CONNECTION DEVICES IN DIAGRAM ARE SHOWN SCHEMATICALLY, FOR ACTUAL QUANTITIES REFER TO FIRE ALARM LAYOUT PLANS.
 - PROVIDE SHUTDOWN SIGNAL UPON FIRE ALARM ENGAGEMENT
 - A. MAU UNITS (2 TOTAL)
 - B. EACH UH (13 TOTAL)
 - C. EACH ERV UNIT (2 TOTAL)
 - D. EACH EF UNIT EXCEPT EF-01, 02, 03, 04
 - E. EACH AC UNIT



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F	ISSUED FOR TENDER	2025-12-10
G	ISSUED FOR TENDER REV. 01	2025-12-23

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PROJECT TITLE

TORONTO PARAMEDIC SERVICES
FLEET MAINTENANCE STATION -
UPGRADE WORKS

PROJECT ADDRESS

KING STREET YARD -
BUILDING NO. 8 & 9
1116 KING STREET WEST

PROJECT NO:
30276606

DRAWN BY:
M.B

CHECKED BY:
L. S.

PROJECT MGR:
N. L.

APPROVED BY:
F.R

SHEET TITLE

FIRST FLOOR ELECTRICAL
STAGE 1 (PRE-FIFA)

SHEET NUMBER

E801

ISSUE

G

NOTES:

- OVERALL INTENT OF THIS DRAWING IS TO INDICATE ELECTRICAL SCOPE FOR THE STAGE OF WORK NEEDING TO BE DONE PRIOR TO THE FIFA WORLD CUP.
- ALL PROPOSED NEW ELECTRICAL EQUIPMENT IS TO BE FED FROM EXISTING PANEL LP-1. PANEL LP-1 IS AT MAXIMUM BREAKER CAPACITY. SELECTIVE DEMOLITION IS TO BE DONE FROM NON CRITICAL LOADS TO FREE UP BREAKER SPACE TO ACCOMMODATE NEW LOADS INDICATED.
- EXISTING LIGHTING, EMERGENCY LIGHTING, EXIT SIGNAGE, HVAC LOADS ARE TO REMAIN OPERATIONAL FOR THIS PHASE OF CONSTRUCTION. ALL EXISTING POWER DISTRIBUTION IS TO REMAIN FOR THIS PHASE.
- PROVIDE CONNECTION FOR NEW COMPRESSOR FROM EXISTING PANEL DP-2 EXISTING COMPRESSOR BREAKER. PROVIDE NEW BREAKER IN EXISTING PANEL TO SUIT NEW COMPRESSOR PER SINGLE LINE DIAGRAM.
- AFTER POST FIFA MOBILIZATION, CONTRACTOR IS TO RE-CIRCUIT LOADS FED TO LP-1 TO NEW PANEL INDICATED ON PROPOSED PLAN.
- CIRCUITS SHOWN ARE FOR GROUPING PURPOSES ONLY TO MATCH THE FINAL STATE CIRCUIT GROUPINGS.

2025-12-24 10:00:31 AM

Scale 1:100

0 2.5 5 10 m

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