ELECTRICAL SYMBOL LEGEND

POWER

- DUPLEX RECEPTACLE
- GROUND FAULT INTERRUPT RECEPTACLE
- MOTOR
- MOTOR C/W DISCONNECT SWITCH
- DISCONNECT SWITCH
- PANELBOARD (PANEL NAME AS SHOWN)
- JUNCTION BOX
- DIRECT POWER CONNECTION
- AUTOMATIC TRANSFER SWITCH
- TRANSFORMER
- MOLDED CASE CIRCUIT BREAKER
- (DM) DIGITAL METERING POINT
- EV CHARGER

LIGHTING

- LED LUMINAIRE - SURFACE OR SUSPENDED
- LED LUMINAIRE - SURFACE OR SUSPENDED STRIP LIGHT
- LED LUMINAIRE - RECESSED
- LED LUMINAIRE - RECESSED NIGHT LIGHT/EMERGENCY POWERED LUMINAIRE
- RECESSED CEILING MOUNTED LUMINAIRE
- RECESSED CEILING MOUNTED LUMINAIRE - NIGHT LIGHT/EMERGENCY POWERED
- WALL MOUNTED LUMINAIRE
- EXTERIOR POLE MOUNTED LUMINAIRE C/W HEADS AS SHOWN
- SINGLE POLE SWITCH - LINE VOLTAGE
- OS OCCUPANCY SENSOR WALL SWITCH - LINE VOLTAGE
- CEILING EXIT LIGHT - RUNNING MAN DIRECTION AS INDICATED
- WALL EXIT LIGHT - RUNNING MAN DIRECTION AS INDICATED
- CEILING EXIT LIGHT - RUNNING MAN DIRECTION AS INDICATED
- (OC) OCCUPANCY SENSOR - CEILING MOUNT
- (DS) DAYLIGHT SENSOR
- '##' LUMINAIRE TYPE

FIRE ALARM SYSTEM

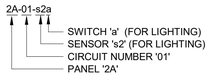
- F FIRE ALARM PULL STATION
- 15cd 30cd 75cd F FIRE ALARM HORN/STROBE. STROBE SET AT 15cd/30cd/75cd
- SMOKE DETECTOR
- HEAT DETECTOR - FIXED TEMPERATURE
- FACP FIRE ALARM CONTROL PANEL

ABBREVIATIONS

GENERAL:

WP	WEATHERPROOF
GND	GROUND

CIRCUITING FORMAT



ELECTRICAL DRAWING LIST

SHEET NUMBER	SHEET NAME
E000	ELECTRICAL NOTES, SYMBOLS AND LEGENDS
E100	SITE PLAN
E200	LEVEL 1 LIGHTING PLAN
E201	LEVEL 1 POWER PLAN
E202	ROOF POWER PLAN
E203	LEVEL 1 FIRE ALARM PLAN
E300	SINGLE LINE DIAGRAM
E400	ELECTRICAL SCHEDULES
E401	ELECTRICAL SCHEDULES
E402	ELECTRICAL SCHEDULES

ELECTRICAL GENERAL NOTE

A. ALL ELECTRICAL MATERIALS AND INSTALLATIONS SHOWN AND/OR SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY IN STRICT ACCORDANCE WITH THE LATEST EDITION OF C.S.A. STANDARDS AND THE C.E.C.

B. ALL CONDUIT WORK AND JUNCTION BOXES AS MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

C. COORDINATE LOCATION OF LIGHTS WITH MECHANICAL, ARCHITECTURAL AND STRUCTURAL DRAWING.

D. ELECTRICAL CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS AT PROJECT COMPLETION.

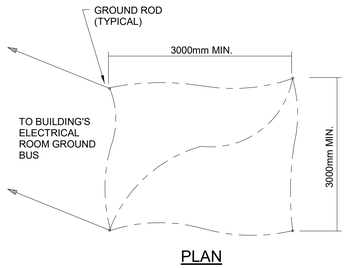
E. PROVIDE LAMACOID LABELS FOR ANY SPECIAL PURPOSE SWITCHES OR RECEPTACLES C/W PANEL FEED AND CIRCUIT NUMBERS.

F. PROVIDE LABELS FOR ALL EQUIPMENT, SWITCHES, RECEPTACLES AND FEEDERS C/W PANEL FEED AND CIRCUIT NUMBERS.

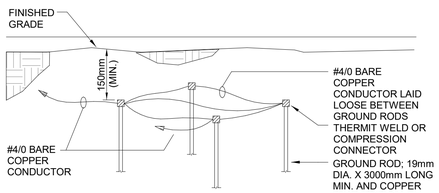
G. THE CONTRACTOR SHALL SEAL ALL PENETRATIONS FOR RACEWAY, CABLES AND ALL OTHER PENETRATIONS MADE BY THE CONTRACTOR THROUGH FIRE RATED ASSEMBLIES TO PREVENT THE SPREAD OF SMOKE AND FIRE. A SYSTEM LISTED IN ULC-S115 AND RATED FTH, FIRESTOP SYSTEMS AND COMPONENTS SHALL BE USED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLIES.

H. CONTRACTOR SHALL SEAL ALL PENETRATIONS FOR RACEWAYS, CABLE AND ALL OTHER PENETRATIONS MADE BY THE CONTRACTOR THROUGH ALL EXTERIOR, SOUND RATED, AND FIRE RATED WALLS.

I. MAXIMUM VOLTAGE DROP FOR BRANCH CIRCUITS SHALL BE 3%. ELECTRICAL CONTRACTOR SHALL SIZE WIRES TO SUIT.



PLAN

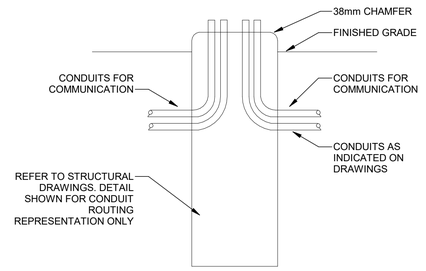


ELEVATION

NOTES:

1. ADDTIONAL GROUND RODS MAY BE REQUIRED ACCORDING TO LOCAL CONDITIONS. SPACE ADDITION GROUND RODS AT MINIMUM OF 3000mm FROM OTHER RODS.

1 SERVICE GROUNDING DETAIL
N.T.S.



2 LIGHTING POLE CONCRETE BASE
N.T.S.

AECOM

CONSULTANT

PRIME:
AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4

PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY,
FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

CLIENT

FORT McMURRAY INTERNATIONAL AIRPORT

REGISTERED OWNER:
FORT MCMURRAY AIRPORT AUTHORITY
300-100 SNOWBIRD WAY
FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN

PN
N

KEY PLAN

PROFESSIONAL ENGINEER ALBERTA
HUSSEIN DESOUKI
76394
May 30 2025

PERMIT TO PRACTICE
AECOM CANADA ULC
RM SIGNATURE:
RM APEGA ID #: 76394
DATE: May 30 2025
PERMIT NUMBER: P010450
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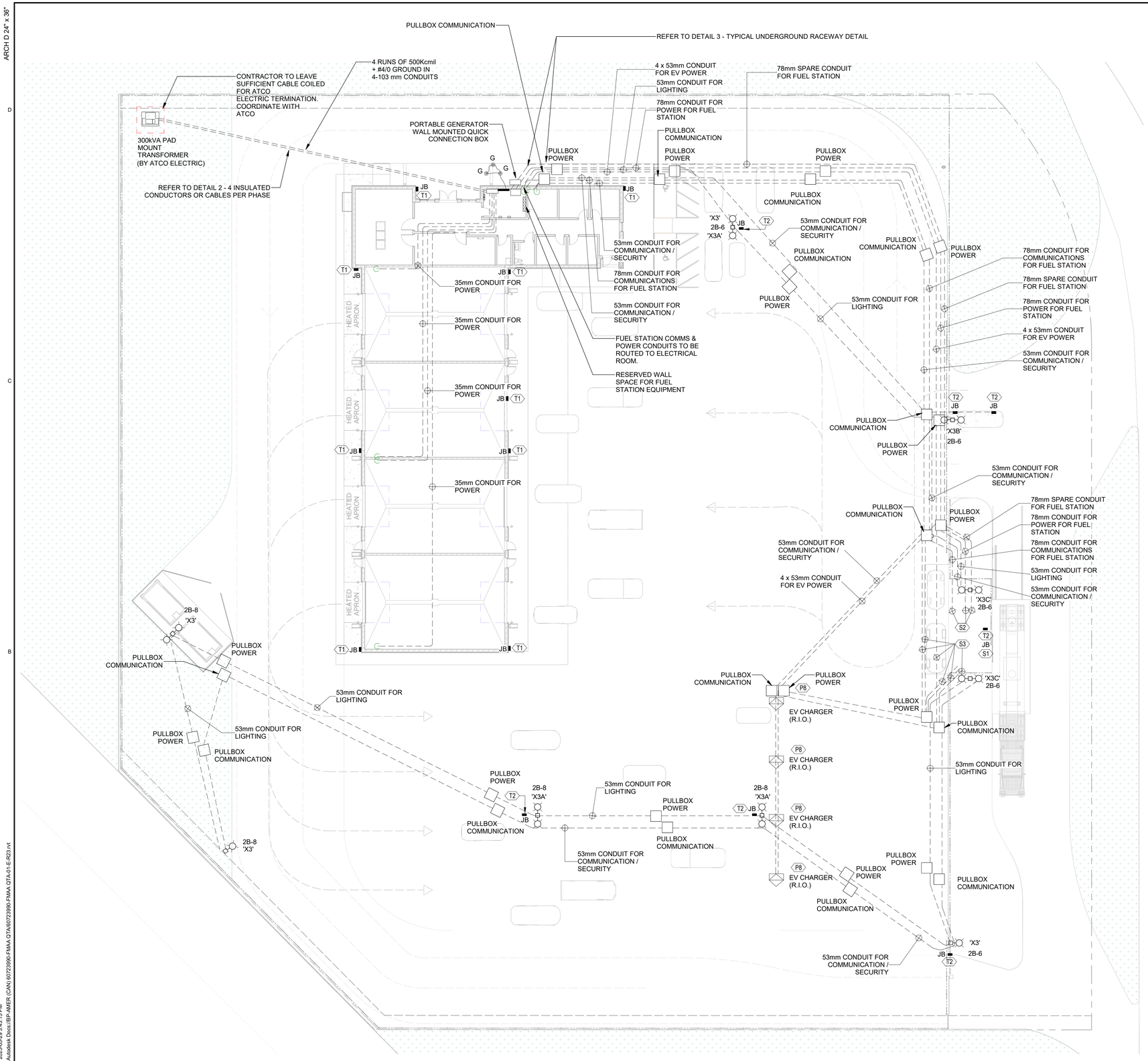
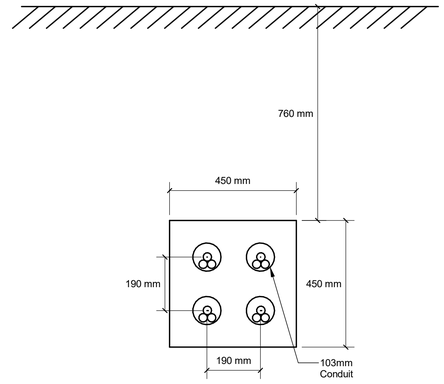
SHEET TITLE

ELECTRICAL NOTES, SYMBOLS AND LEGENDS

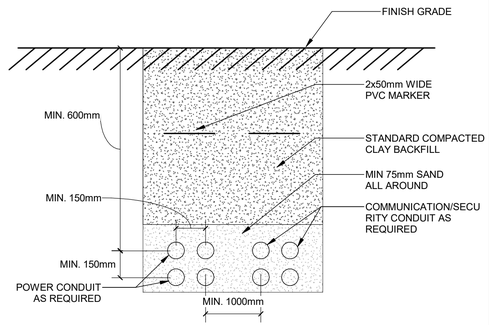
SHEET NUMBER **E000** REVISION **G**



1 **Site plan**
1 : 200



2 **4 INSULATED CONDUCTORS OR CABLES PER PHASE**
N.T.S.



3 **TYPICAL UNDERGROUND RACEWAY DETAIL**
N.T.S.

SITE PLAN GENERAL NOTE

A. PULL BOXES ARE FOR PULLING PURPOSES ONLY AND ARE NOT TO BE USED FOR CABLE SPLICING.

B. COORDINATE INSTALLATION OF ALL UNDERGROUND CONDUITS AND PILES WITH DEEP SERVICES ON SITE

C. NEW PADMOUNT UTILITY TRANSFORMER SUPPLIED AND INSTALLED BY ATCO. CONTRACTOR TO PROVIDE AND INSTALL SECONDARY DUCT BANK AND FEEDERS, TRANSFORMER, VAULT STYLE PAD, GROUND GRID, AND GUARD RAIL TO UTILITY COMPANY SPECIFICATIONS. REFER TO ATCO CUSTOMER CONNECTION GUIDE.

D. COORDINATE ALL UNDERGROUND WORK WITH CIVIL, MECHANICAL, AND LANDSCAPE DRAWINGS.

E. BURIAL DEPTH OF ALL CONDUITS TO CSA C22.1 REQUIREMENTS.

F. PERFORM ALL WORK IN ACCORDANCE WITH ALBERTA EDITION NATIONAL BUILDING CODE AND CANADIAN ELECTRICAL CODE.

G. REFER TO LATEST ATCO CUSTOMER CONNECTION GUIDE FOR ADDITIONAL SPECIFICATIONS AND DETAIL NOT SHOWN ON THIS PLAN.

H. BUILDING GROUND GRID C/W GROUND RODS AND BARE COPPER INTERCONNECTION TO ELECTRICAL ROOM GROUND BUS.

KEYNOTES (#)

P8 ROUGH-IN FOR EV CHARGER TO BE COMPLETE WITH CONDUIT FROM EV CHARGER PANEL A TO EACH EV CHARGER LOCATION WITH CONDUIT STUB UP TO A SURFACE JUNCTION BOX READY FOR FUTURE INSTALLATION.

S1 PROVIDE 2 x 78mm CONDUIT FOR INTERCONNECTION OF EMERGENCY FUEL SHUT OFF FOR FUEL STATION. EXACT REQUIREMENT AND CONDUIT ROUTING TO BE COORDINATED ON SITE.

S2 CONDUIT STUB UP LOCATION TO BE COORDINATED WITH FUEL STATION VENDER PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR TO INCLUDE ALL CONDUIT AND BACK AS REQUIRED TO FACILIATE POWER CONNECTION TO FUEL STATION EQUIPMENT THAT REQUIRES POWER INCLUDING BUT NOT LIMITED TO CONTROL PANEL AND LIGHTING ETC.

S3 ALTERNATIVE ENTRY PATH FOR SPARE, POWER AND COMMUNICATION/SECURITY FOR FUEL STATION.

T1 PROVIDE 27mm EMPTY CONDUIT FROM SECURITY/TELECOMM CONTROL PANEL TO FIELD DEVICES. SUPPLY ADDITIONAL RACEWAY AS REQUIRED FOR INTERCONNECTION OF FIELD DEVICE. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND REQUIREMENT.

T2 JB DENOTES APPROXIMATE LOCATION FOR SECURITY/COMMUNICATION FIELD DEVICE. UTILIZE UNDERGROUND RACEWAY FOR SECURITY/COMMUNICATION TO FACILITATE CONNECTION TO FIELD DEVICE. SUPPLY ADDITIONAL RACEWAY AS REQUIRED FOR INTERCONNECTION OF FIELD DEVICE. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND REQUIREMENT.

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AECOM

CONSULTANT

PRIME:
AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4

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PROJECT NUMBER

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NORTH ARROW AND KEYPLAN

PN

KEY PLAN

PROFESSIONAL ENGINEER ALBERTA HUSSEIN DESOUKY
76394 May 30 2025

PERMIT TO PRACTICE
AECOM CANADA ULC
RM SIGNATURE:
RM APEGA ID #: 76394
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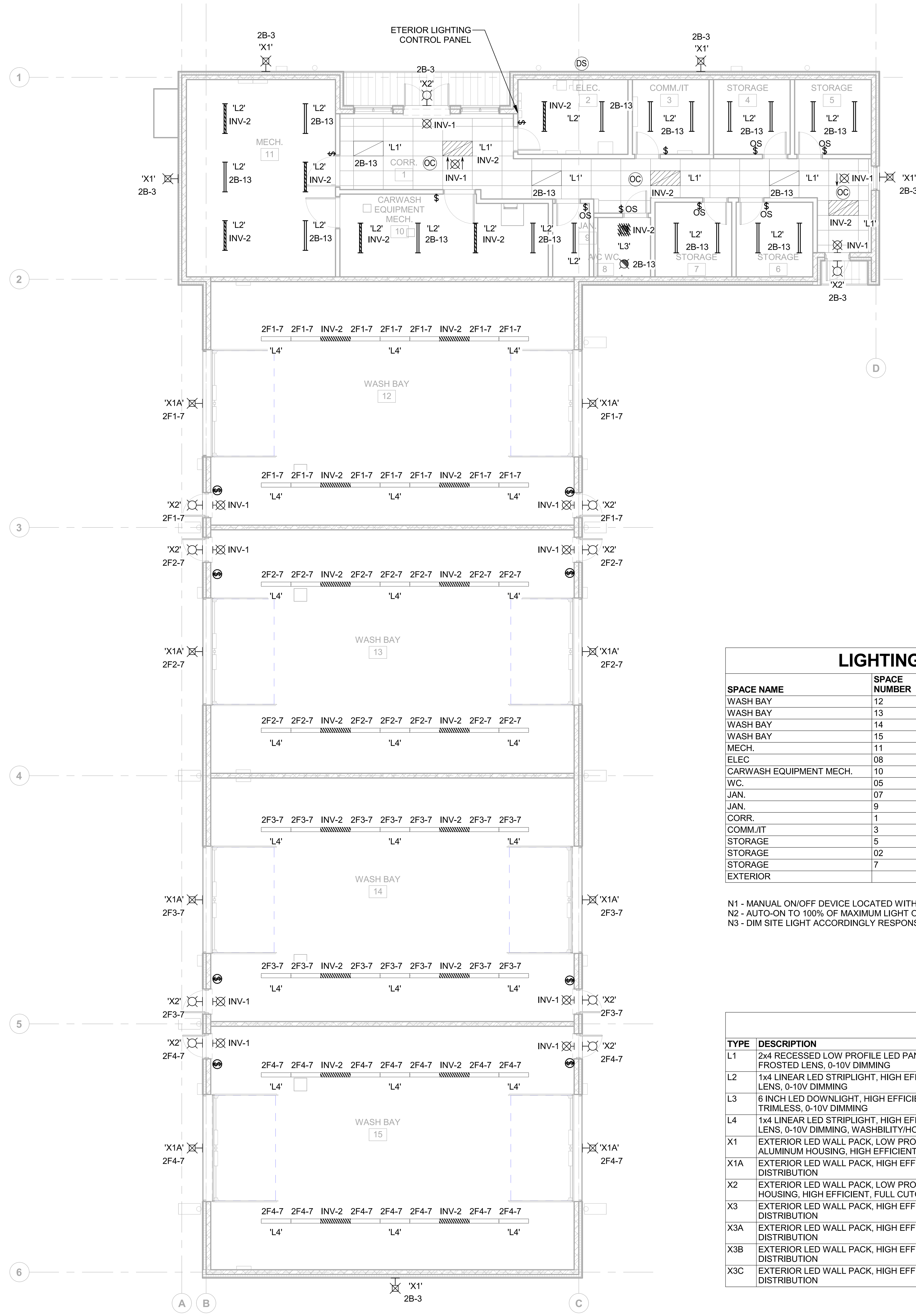
SITE PLAN

SHEET NUMBER **E100** REVISION **G**



1 Lighting Plan
1 : 100

LIGHTING GENERAL NOTES

A. PRIOR TO PROCEEDING WITH WORK, ELECTRICAL CONTRACTOR TO COORDINATE THIS WORK WITH OTHER TRADES.

B. ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTRAL, MECHANICAL, STRUCTURAL AND FURNITURE EQUIPMENT DRAWINGS (IF APPLICABLE) TO COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL LUMINAIRES. IF UNCLEAR, CONFIRM WITH ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN AND INSTALLATION.

C. CONFIRM LOCATIONS OF ALL STRUCTURAL AND CEILING ELEMENTS IN WHICH LUMINAIRES ARE BEING INSTALLED IN WITH ARCHITECT AND STRUCTURAL CONSULTANT PRIOR TO ROUGH-IN AND INSTALLATION OF LUMINAIRES.

D. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL MECHANICAL EQUIPMENT AND COORDINATE LUMINAIRE MOUNTING AROUND EQUIPMENT AND ENSURE THAT ALL LUMINAIRES ARE SUSPENDED CLEAR OF ALL MECHANICAL DUTWORK AND PIPING.

E. ELECTRICAL CONTRACTOR TO COORDINATE AND ENSURE THAT NO CIRCUIT EXCEEDS ANY POWER LIMITATIONS PRIOR TO INSTALLATION. CIRCUIT SHOWN IS DIAGRAMMATIC AND IS SHOW & ONLY CIRCUITING LIGHTING SCHEME. SHOULD ON SITE CONDITIONS DIFFER OR CONFLICT WITH WHAT IS INDICATED ELECTRICAL CONTRACTOR TO CONFIRM WITH ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN AND INSTALLATION.

F. IDENTIFY AND LABEL ALL CONDUIT, JUNCTION BOXES, DEVICES, ALL EQUIPMENT, AND OTHER ELECTRICAL DEVICES IN ACCORDANCE WITH OWNER REQUIREMENTS AND SPECIFICATIONS.

G. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE AND INSTALL FIRE STOPPING AT ALL CONDUIT THROUGH FIRE WALLS AND FLOORS, AND FOR RATING AND SYSTEM REQUIREMENTS (TYPICALTHROUGHOUT).

LIGHTING CONTROL SCHEDULE

SPACE NAME	SPACE NUMBER	N1 - MANUAL ON/OFF SWITCH	N2 - OCCUPANCY SENSOR	N3 - DAYLIGHT SENSOR
WASH BAY	12	X		
WASH BAY	13	X		
WASH BAY	14	X		
WASH BAY	15	X		
MECH.	11	X		
ELEC	08	X		
CARWASH EQUIPMENT MECH.	10	X		
WC.	05	X	X	
JAN.	07	X	X	
JAN.	9	X	X	
CORR.	1		X	
COMM./IT	3	X	X	
STORAGE	5	X	X	
STORAGE	02	X	X	
STORAGE	7	X	X	
EXTERIOR				X

N1 - MANUAL ON/OFF DEVICE LOCATED WITHIN THE AREA IT CONTROLS.
N2 - AUTO-ON TO 100% OF MAXIMUM LIGHT OUTPUT. AUTO-OFF AFTER 15 MINUTES OF VACANCY.
N3 - DIM SITE LIGHT ACCORDINGLY RESPONSE TO DAYLIGHT.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	PRE-APPROVED MANUFACTURER / PRODUCT	LUMENS	VOLTAGE	WATTS	CCT
L1	2x4 RECESSED LOW PROFILE LED PANEL, HIGH EFFICIENT, FROSTED LENS, 0-10V DIMMING	RECESSED	COOPER LIGHTING - METALUX FPS LED SERIE	3534LM	120V	30 W	3500 K
L2	1x4 LINEAR LED STRIPLIGHT, HIGH EFFICIENT, FROSTED LENS, 0-10V DIMMING	SUSPENDED	COOPER LIGHTING - METALUX SNX LENSED SERIE	6320LM	120V	48 W	4000 K
L3	6 INCH LED DOWNLIGHT, HIGH EFFICIENT, FROSTED LENS, TRIMLESS, 0-10V DIMMING	RECESSED	COOPER LIGHTING - HALO COMMETRICAL HC6 SERIE	1095LM	120V	10 W	3500 K
L4	1x4 LINEAR LED STRIPLIGHT, HIGH EFFICIENT, FROSTED LENS, 0-10V DIMMING, WASHBILITY/HOSE DOWN RATED	SUSPENDED	AIMLITE - VWP4-L GEN 2 SERIE	8759LM	120V	62 W	4000 K
X1	EXTERIOR LED WALL PACK, LOW PROFILE, DIE-CAST ALUMINUM HOUSING, HIGH EFFICIENT, TYPE III DISTRIBUTION	WALL MOUNTED	COOPER LIGHTING - LUMARK PREVAIL PETITE	4443LM	120V	31 W	4000 K
X1A	EXTERIOR LED WALL PACK, HIGH EFFICIENT, TYPE III DISTRIBUTION	WALL MOUNTED	COOPER LIGHTING -LUMARK PREVAIL PETITE	4348LM	120V	31 W	4000 K
X2	EXTERIOR LED WALL PACK, LOW PROFILE, DIE-ALUMINUM HOUSING, HIGH EFFICIENT, FULL CUTOFF	WALL MOUNTED	COOPER LIGHTING - LUMARK AXCENT	1806LM	120V	14 W	4000 K
X3	EXTERIOR LED WALL PACK, HIGH EFFICIENT, TYPE II DISTRIBUTION	POLE LIGHT	COOPER LIGHTING -LUMARK PREVAIL	7597LM	120V	54 W	4000 K
X3A	EXTERIOR LED WALL PACK, HIGH EFFICIENT, TYPE VS DISTRIBUTION	POLE LIGHT	COOPER LIGHTING -LUMARK PREVAIL	16281LM	120V	112 W	4000 K
X3B	EXTERIOR LED WALL PACK, HIGH EFFICIENT, TYPE IV DISTRIBUTION	POLE LIGHT	COOPER LIGHTING -LUMARK PREVAIL	19431LM	120V	151 W	4000 K
X3C	EXTERIOR LED WALL PACK, HIGH EFFICIENT, TYPE V DISTRIBUTION	POLE LIGHT	COOPER LIGHTING -LUMARK PREVAIL	7831LM	120V	54 W	4000 K

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50 Sportsworld Crossing Road, Suite 290
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SHEET TITLE
LEVEL 1 LIGHTING PLAN

SHEET NUMBER **E200** REVISION **G**

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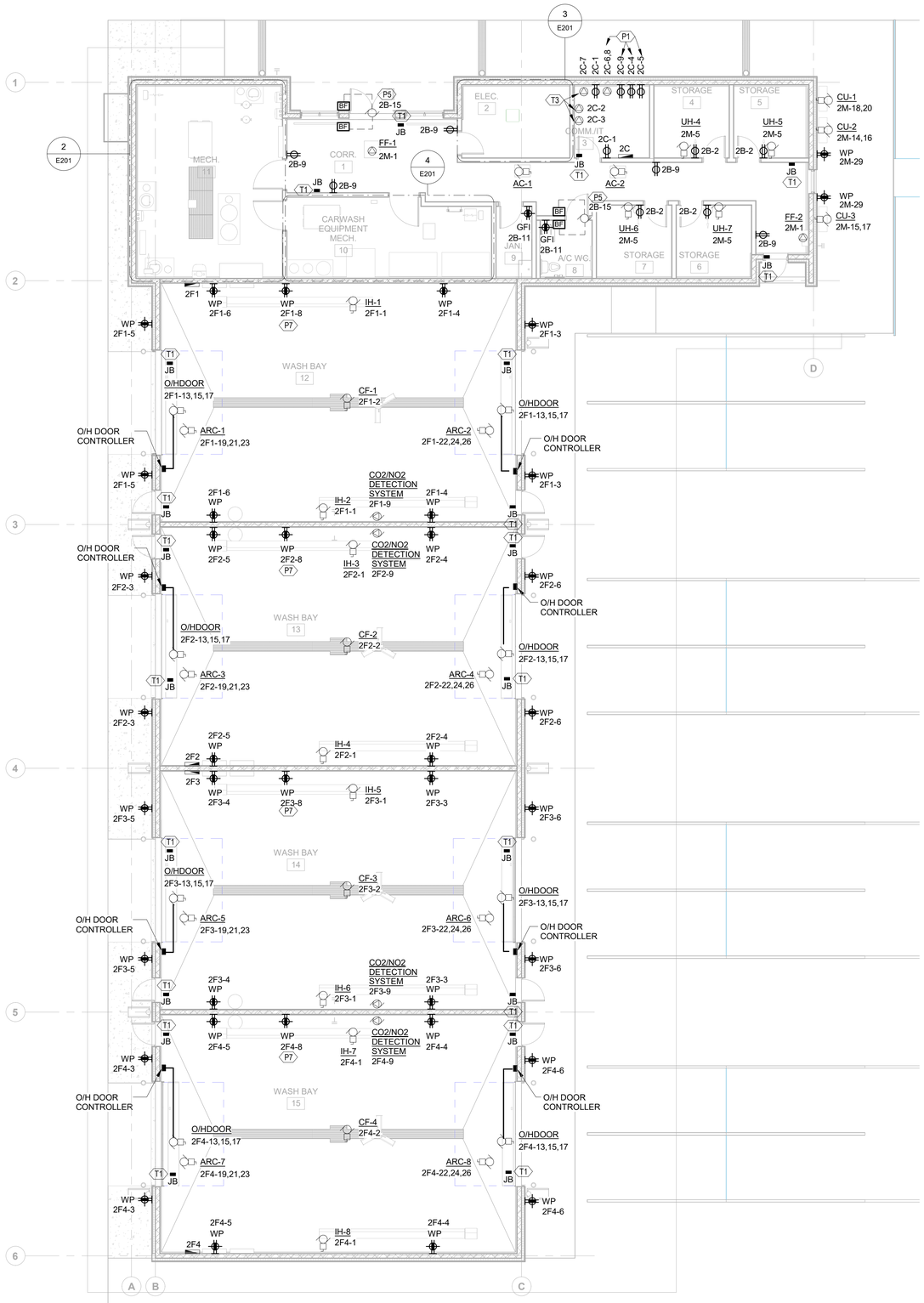


1 Power Plan

1 : 100

KEYNOTES

P1	RACK AND CANBINET OUTLETS LOCATION AND INSTALLATION REQUIREMENT TO BE COORDINATED ON SITE WITH TELECOM CONTRACTOR.
P2	IN CASE WHERE VFD IS NOT COMPLETE WITH LINE REACTORS, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL LINE REACTOR UPSTREAM OF VFD.
P5	CONTROL SEQUENCE OF BARRIER FREE DOOR OPERATOR SHALL BE COORDINATED WITH ACCESS CONTROL SYSTEM SO THAT IT WILL ONLY ACTUATED UPON AUTHORIZED BY CARD READER.
P6	PROVIDE DIRECT POWER CONNECTION TO 208V, 3PH, 30A RECEPTACLE SUPPLIED BY CAR WASH MACHINE VENDER. EXACT LOCATION AND REQUIREMENT TO BE COORDINATED ON SITE.
P7	DEDICATED RECEPTACLE FOR CAR WASH VACCUM. EXACT MOUNTING HIGH AND LOCATION TO BE COORDINDATED ON SITE WITH CAR WASH EQUIPMENT VENDER PRIOR TO ROUGH-IN.
T1	PROVIDE 27mm EMPTY CONDUIT FROM SECURITY/TELECOMM CONTROL PANEL TO FIELD DEVICES. SUPPLY ADDITIONAL RACEWAY AS REQUIRED FOR INTERCONNECTION OF FIELD DEVICE. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND REQUIREMENT.
T3	PROVIDE 120V DIRECT CONNECTION TO SECURITY/COMMUNICATION PANELS. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND REQUIREMENT.

POWER GENERAL NOTES

A. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.

B. CONTRACTOR TO INSTALL NEWLY TYPE-WRITTEN DIRECTORIES IN ALL PANELS TO CLEARLY IDENTIFY ALL CONNECTED CIRCUITS.

C. CONDUCTOR SIZE FOR BRANCH CIRCUITS (120/208V) 24 METERS IN LENGTH FROM BRANCH CIRCUIT PANEL TO CENTER OF LOAD, NOT SMALLER THAN #12, UP TO 38 METERS NOT SMALLER THAN #10, UP TO 61 METERS NOT SMALLER THAN #8.

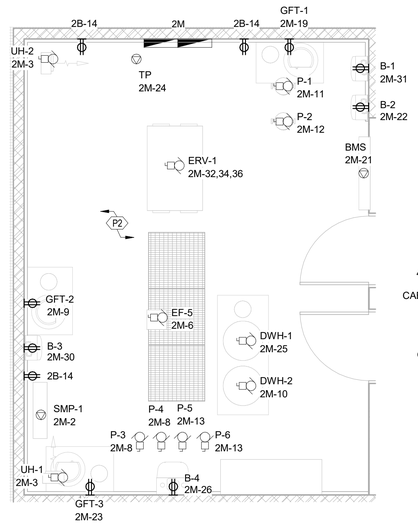
D. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES.

E. THE CONTRACTOR SHALL SEAL ALL PENETRATIONS FOR RACEWAY, CABLES, AND ALL OTHER PENETRATIONS MADE BY THE CONTRACTOR THROUGH FIRE RATED ASSEMBLIES TO PREVENT THE SPREAD OF SMOKE AND FIRE. A SYSTEM LSITED IN ULC-S115 AND RATED FTH, FIRESTOP SYSTEMS AND COMPONENTS SHALL BE USED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLIES.

F. COORDINATE ALL MECHANICAL EQUIPMENT DISCONNECT SWITCHES LOCATIONS WITH MECHANICAL.

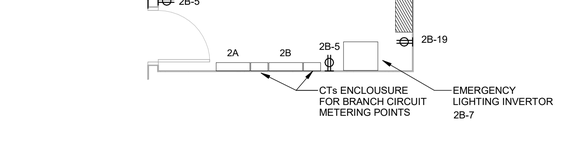
G. AFTER INSTALLATION AND COMMISSIONING CONTRACTOR SHALL PERFORM LOAD BALANCE BETWEEN PHASE A,B, AND C FOR ALL PANELBOARDS SO THAT NO PHASE IS LOADED OVER THAN 15% OF OTHER PHASES.

H. ENSURE THAT ELECTRICAL BOXES ARE NOT LOCATED BACK TO BACK WITHIN THE SAME STUD CAVITY. THERE SHOULD BE AT LEAST A 1-STUD CAVITY SPACE BETWEEN BACK-TO-BACK BOXES AND BACK-TO-BACK MUST NEVER BE ATTACHED TO THE SAME STUD EVEN IF THEY ARE IN A SEPERATE STUD CAVITIES. ENSURE THAT RIGID CONDUIT IS NOT USED TO CONNECT TWO BOXES WHICH ARE BACK-TO-BACK EVEN IF THEY ARE IN A SEPERATE STUD CAVITY. A MINIMUM SPACING OF 150mm BETWEEN BOXES IN CONVENTIONAL WALLS AND 600mm IN ACOUSTIC RATIO WALLS.



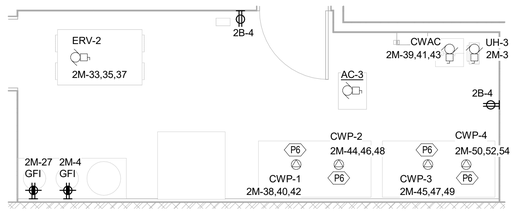
2 MECHANICAL ROOM ENLARGED PLAN

E201 | 1 : 50



3 ELECTRICAL ROOM ENLARGED PLAN

E201 | 1 : 50



4 CAR WASH EQUIPMENT ROOM ENLARGEND PLAN

E201 | 1 : 50

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FILENAME: Autodesk Docs://BP-AMER (CAN) 60723990-FMAA QTA/60723990-FMAA QTA-01-E-R23.rvt

AECOM

CONSULTANT

PRIME:
AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4

PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY,
FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

CLIENT

FORT McMURRAY INTERNATIONAL AIRPORT

REGISTERED OWNER:
FORT MCMURRAY AIRPORT AUTHORITY
300-100 SNOWBIRD WAY
FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN

PN

KEY PLAN

PROFESSIONAL ENGINEER ALBERTA HUSSEIN DESOUKY
76394
May 30 2025

PERMIT TO PRACTICE
AECOM CANADA ULC
RM SIGNATURE:
RM APEGA ID #: 76394
DATE: May 30 2025
PERMIT NUMBER: P010450
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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F	24/04/2025	ISSUED FOR TENDER (DRAFT)
E	14/02/2025	100% SUBMISSION
D	07/02/2025	ISSUED FOR 100% REVIEW
C	10/06/2024	60% SUBMISSION
B	31/05/2024	DRAFT 60% SUBMISSION
A	19/04/2024	30% SUBMISSION
I/R	DATE	DESCRIPTION

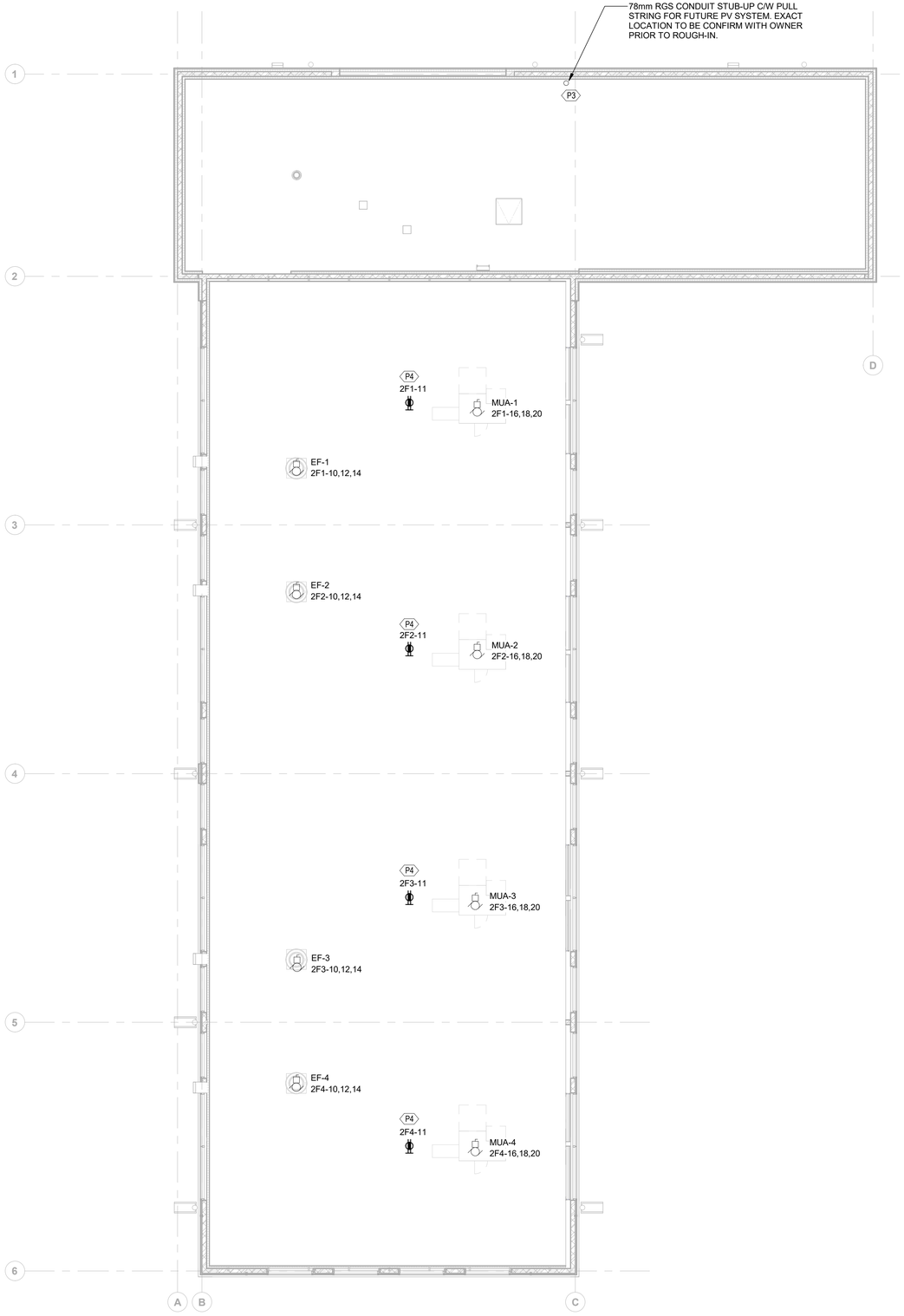
PRODUCTION INFORMATION

DRAWN: Author
REVIEWED: Checker
VERIFIED: Approver

SHEET TITLE

LEVEL 1 POWER PLAN

SHEET NUMBER **E201** REVISION **G**



1 Power Roof
1 : 100

POWER GENERAL NOTES

A. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.

B. CONTRACTOR TO INSTALL NEWLY TYPE-WRITTEN DIRECTORIES IN ALL PANELS TO CLEARLY IDENTIFY ALL CONNECTED CIRCUITS.

C. CONDUCTOR SIZE FOR BRANCH CIRCUITS (120/208V) 24 METERS IN LENGTH FROM BRANCH CIRCUIT PANEL TO CENTER OF LOAD, NOT SMALLER THAN #12, UP TO 38 METERS NOT SMALLER THAN #10, UP TO 61 METERS NOT SMALLER THAN #8.

D. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES.

E. THE CONTRACTOR SHALL SEAL ALL PENETRATIONS FOR RACEWAY, CABLES, AND ALL OTHER PENETRATIONS MADE BY THE CONTRACTOR THROUGH FIRE RATED ASSEMBLIES TO PREVENT THE SPREAD OF SMOKE AND FIRE. A SYSTEM LSITED IN ULC-S115 AND RATED FTH, FIRESTOP SYSTEMS AND COMPONENTS SHALL BE USED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLIES.

F. COORDINATE ALL MECHANICAL EQUIPMENT DISCONNECT SWITCHES LOCATIONS WITH MECHANICAL.

G. AFTER INSTALLATION AND COMMISSIONING CONTRACTOR SHALL PERFORM LOAD BALANCE BETWEEN PHASE A,B, AND C FOR ALL PANELBOARDS SO THAT NO PHASE IS LOADED OVER THAN 15% OF OTHER PHASES.

H. ENSURE THAT ELECTRICAL BOXES ARE NOT LOCATED BACK TO BACK WITHIN THE SAME STUD CAVITY. THERE SHOULD BE AT LEAST A 1-STUD CAVITY SPACE BETWEEN BACK-TO-BACK BOXES AND BACK-TO-BACK MUST NEVER BE ATTACHED TO THE SAME STUD EVEN IF THEY ARE IN A SEPERATE STUD CAVITIES. ENSURE THAT RIGID CONDUIT IS NOT USED TO CONNECT TWO BOXES WHICH ARE BACK-TO-BACK EVEN IF THEY ARE IN A SEPERATE STUD CAVITY. A MINIMUM SPACING OF 150mm BETWEEN BOXES IN CONVENTIONAL WALLS AND 600mm IN ACOUSTIC RATIO WALLS.

KEYNOTES (#)

P3 78mm RGS CONDUIT STUB-UP C/W PULL STRING FOR FUTURE PV SYSTEM. EXACT LOCATION TO BE CONFIRM WITH OWNER PRIOR TO ROUGH-IN.

P4 SUPPLY AND INSTALL PEDESTAL MOUNTED 120 V 20A DUPLEX RECEPTACLE WITHIN 7.5m OF MECHANICAL EQUIPMENT.

AECOM

CONSULTANT

PRIME:
AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4

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300-100 SNOWBIRD WAY,
FORT MCMURRAY, ALBERTA

PROJECT NUMBER
60723990

CLIENT

FORT McMURRAY INTERNATIONAL AIRPORT

REGISTERED OWNER:
FORT MCMURRAY AIRPORT AUTHORITY
300-100 SNOWBIRD WAY
FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN

PN
N

KEY PLAN

PROFESSIONAL ENGINEER ALBERTA
HUSSEIN DESOUKY
76394
May 30 2025

PERMIT TO PRACTICE
AECOM CANADA ULC
RM SIGNATURE:
RM APEGA ID #: 76394
DATE: May 30 2025
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A	19/04/2024	30% SUBMISSION
I/R	DATE	DESCRIPTION

PRODUCTION INFORMATION

DRAWN: Author
REVIEWED: Checker
VERIFIED: Approver

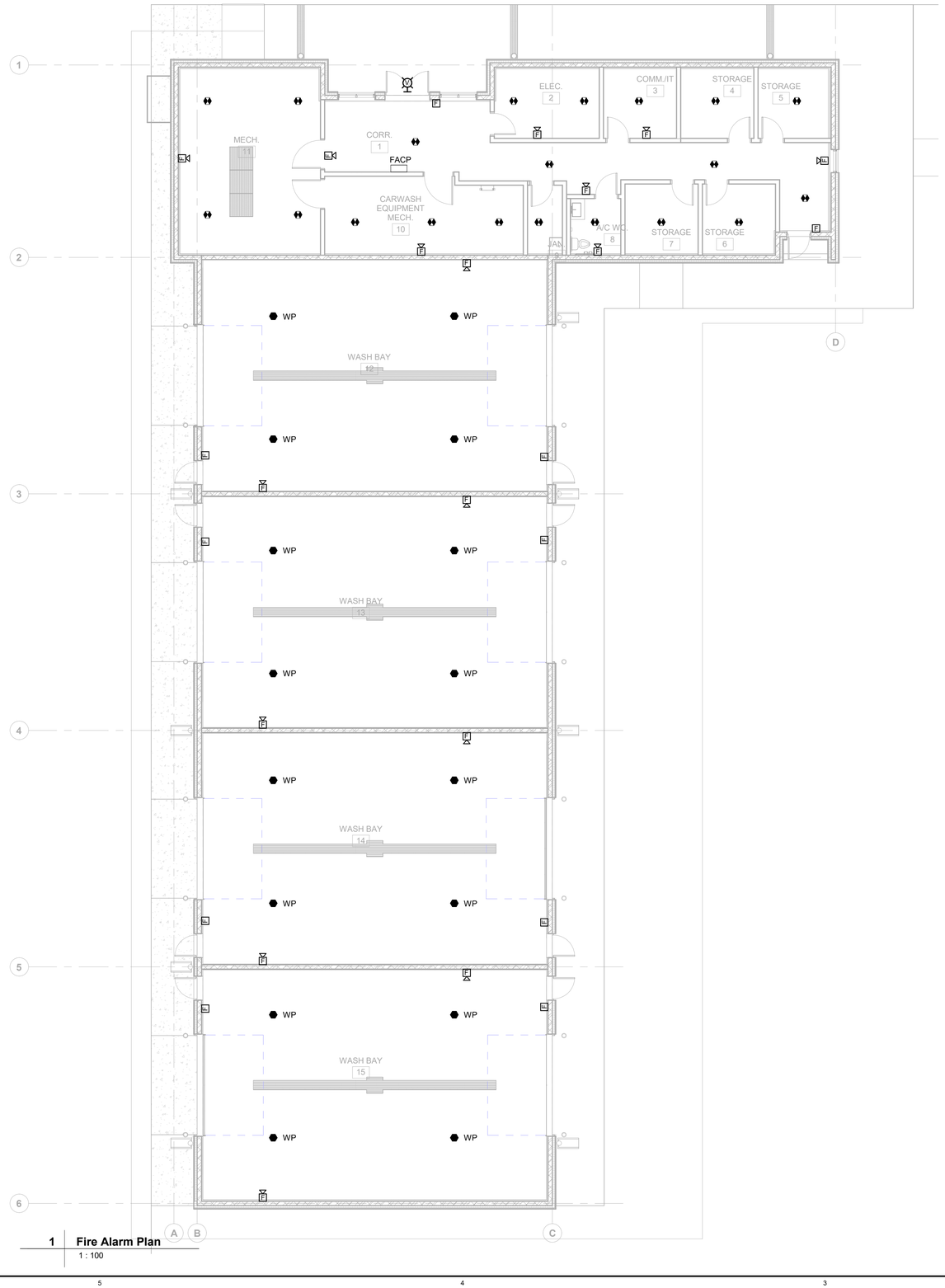
SHEET TITLE

ROOF POWER PLAN

SHEET NUMBER **E202**

REVISION **G**

ARCH D 24" X 36"
Last Plotted: 2025-05-29 3:43:31 PM
FILENAME: Autodesk Docs://BP-AMER (CAN) 60723990-FMAA QTA/60723990-FMAA QTA-01-E-R23.rvt



1 **Fire Alarm Plan**
1 : 100

FIRE ALARM GENERAL NOTES

A. COORDINATE LOCATION OF EQUIPMENT AND DEVICES WITH OTHER TRADES PRIOR TO COMMENCING WORK. COORDINATE LOCATIONS OF ALL CEILING-MOUNTED EQUIPMENT AND DEVICES WITH ARCHITECTURAL CEILING ELEMENTS PRIOR TO COMMENCING WORK AND ANY ROUGH-IN OR INSTALLATION. IF NOT CLEAR, CONFIRM WITH ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN AND INSTALLATION.

B. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE AND INSTALL FIRE STOPPING AT ALL CONDUIT THROUGH FIRE WALLS AND FLOORS. COORDINATE WITH GENERAL CONTRACTOR FOR RATING AND SYSTEM REQUIREMENTS (TYPICAL THROUGH-OUT).

C. FIRE ALARM SYSTEM SHALL BE INSTALLED TO CAN/ULC S524 AND VERIFIED TO CAN/ULC S537. ELECTRICAL CONTRACTOR SHALL ALLOW COSTS FOR ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA TO WITNESS FIRE ALARM VERIFICATION.

D. ALL STROBE CIRCUITS TO BE SYNCHRONIZED THROUGHOUT THE BUILDING'S ENTIRETY.

E. ALL HORN/STROBE TAP SETTINGS TO BE FINALIZED ON SITE. ALLOW FOR UPSIZING OF AMPLIFIERS AS REQUIRED.

F. PROVIDE A FRAMED FIRE ALARM ZONE PASSIVE GRAPHIC AT MAIN ENTRANCE TO BUILDING.

G. MANUAL PULL STATION SHALL BE MOUNTED WITHIN 1500mm OF THE EXIT DOOR.

H. DETECTOR LOCATED NEAR DIFFUSERS SHALL BE PLACED MINIMUM 450mm AWAY FROM DIFFUSER.

AECOM

CONSULTANT

PRIME:
AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4

PROJECT

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300-100 SNOWBIRD WAY,
FORT MCMURRAY, ALBERTA

PROJECT NUMBER

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REGISTERED OWNER:
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FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN

PN
N

KEY PLAN

PROFESSIONAL ENGINEER ALBERTA
HUSSEIN DESOUKY
76394
May 30 2025

PERMIT TO PRACTICE
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A	19/04/2024	30% SUBMISSION

PRODUCTION INFORMATION

DRAWN: Author
REVIEWED: Checker
VERIFIED: Approver

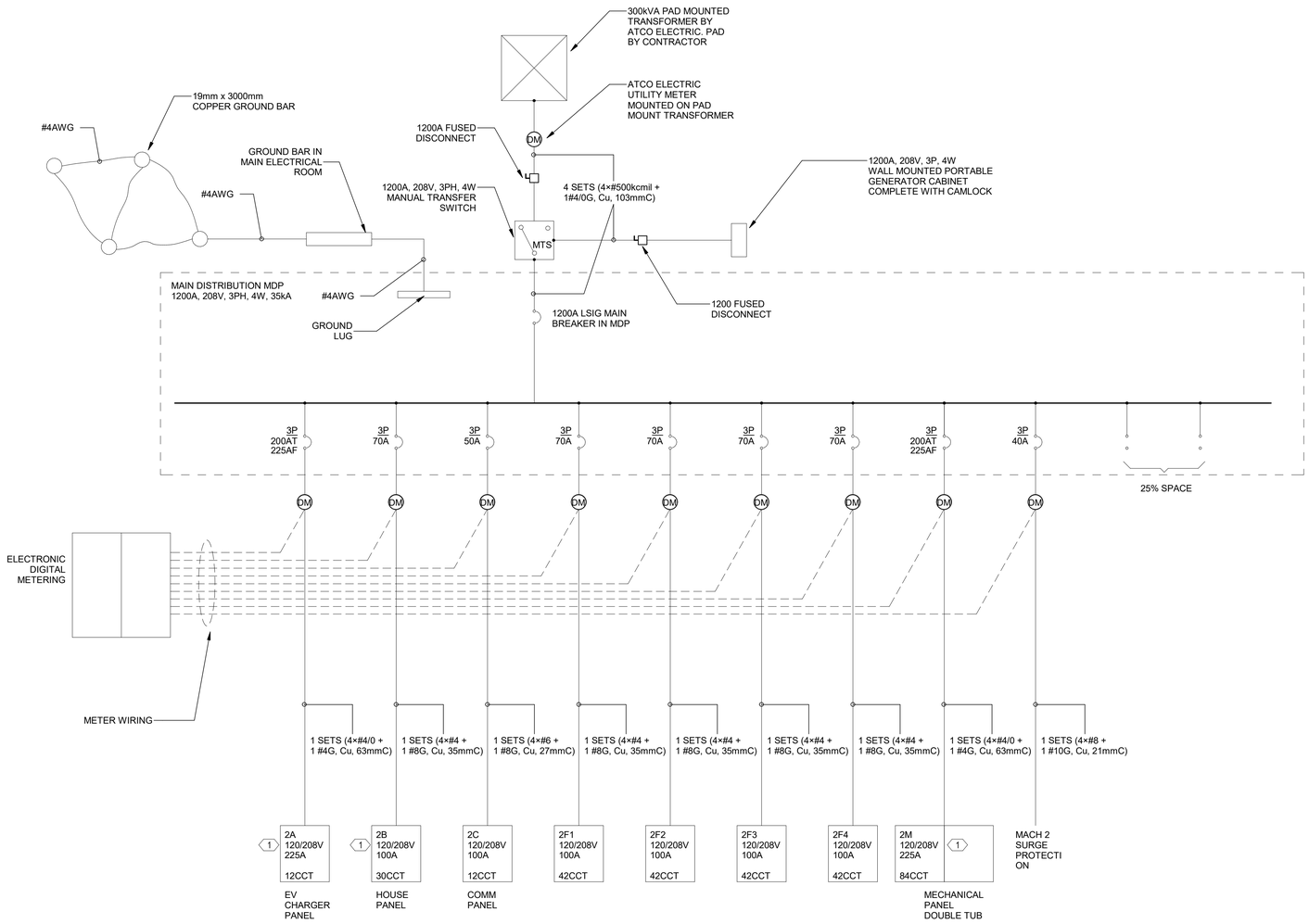
SHEET TITLE

LEVEL 1 FIRE ALARM PLAN

SHEET NUMBER **REVISION**

E203 **G**

ARCH D 24" X 36"
Last Plotted: 2025-05-29 3:43:34 PM
FILENAME: Autodesk Docs://BP-AMER (CAN) 60723990-FMAA QTA/60723990-FMAA QTA-01-E-R23.rvt



1 SINGLE LINE DIAGRAM

N.T.S.

GENERAL NOTE

A. BREAKER TRIP RATING AND SWITCHBOARD / PANELS SHORT CIRCUIT RATING ARE PRELIMINARY. CONTRACTOR MUST PERFORM COORDINATION STUDY, SHORT CIRCUIT STUDY, ARC FLASH STUDY, AND LOAD FLOW STUDY BASED ON THE SELECTED EQUIPMENT AND ALLOW FOR ANY CHANGES REQUIRED FOR BREAKERS TRIP RATINGS AND SWITCHBOARD/PANELS SHORT CIRCUIT RATING.

B. FEEDER SIZES SHOWN ON THE DRAWINGS ARE THE MINIMUM REQUIRED. CONTRACTOR SHALL CONFIRM BASED ON REAL SITE ROUTES SO THAT THE VOLTAGE DROP SHALL NOT EXCEED 2% FOR FEEDERS, 3% FOR BRANCH CIRCUIT AND THE OVERALL VOLTAGE DROP AT ANY OUTLET SHALL NOT EXCEED 5% AND ALLOW TO UP SIZE THE FEEDERS IF REQUIRED.CONTRACTOR SHALL SUBMIT VOLTAGE DROP CALCULATION FOR REVIEW PRIOR TO ORDERING THE CABLES.

C. ALL BREAKERS SHALL BE PROVIDED WITH 75°C RATED TERMINALS.

D. THE DRAWINGS AND SPECIFICATIONS ARE ALL ONE COMPLETE SET THAT COMPLIMENT EACH OTHER. WHATEVER SHOWN OR INDICATED ON THE SPECIFICATIONS AND/OR DRAWINGS IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

E. MAIN SWITCHBOARD AND ALL CENTRAL DISTRIBUTION BOARDS SHALL BE PROVIDED WITH 25% SPARE CAPACITY.

KEYNOTES

1 REFER TO PANEL SCHEDULE FOR BRANCH CIRCUIT METERING REQUIREMENT.

AECOM

CONSULTANT

PRIME:
AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4

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300-100 SNOWBIRD WAY,
FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

CLIENT

FORT McMURRAY INTERNATIONAL AIRPORT

REGISTERED OWNER:
FORT MCMURRAY AIRPORT AUTHORITY
300-100 SNOWBIRD WAY
FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN

PN

KEY PLAN

PROFESSIONAL ENGINEER ALBERTA HUSSEIN DESOUKI
76394
May 30 2025

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A	19/04/2024	30% SUBMISSION

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VERIFIED: Approver

SHEET TITLE

SINGLE LINE DIAGRAM

SHEET NUMBER **E300** REVISION **G**

Last Plotted: 2025-05-29 3:43:36 PM
FILENAME: Autodesk Docs://BP-AMER (CAN) 60723990-FMAA OTA/60723990-FMAA OTA-01-E-R23.rvt

Branch Panel: MDP

Location: ELEC 08 **Volts:** 208/120 Wye **A.I.C. Rating:** 35kA
Supply From: **Phases:** 3 **Mains Type:** LGIS
Mounting: **Wires:** 4 **Mains Rating:** 1200 A
Enclosure:

CKT	Circuit Description	Trip	Poles	A	B	C
1,2,3	2A	200 A	3	0 VA	0 VA	0 VA
4,5,6	2B	100 A	3	6357 VA	6246 VA	6310 VA
7,8,9	2C	50 A	3	4096 VA	4440 VA	4416 VA
10,11,12	2M	200 A	3	22122 VA	20619 VA	21828 VA
13,14,15	2F1	70 A	3	6224 VA	6362 VA	6362 VA
16,17,18	2F2	70 A	3	6224 VA	6362 VA	6362 VA
19,20,21	2F3	70 A	3	6224 VA	6362 VA	6362 VA
22,23,24	2F4	70 A	3	6224 VA	6362 VA	6362 VA
25,26,27	SPACE	--	3	--	--	--
28,29,30	SPACE	--	3	--	--	--
			Total Load:	57473 VA	56755 VA	58004 VA
			Total Amps:	480 A	473 A	484 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	123254 VA	75.00%	92441 VA		
LIGHTING	6993 VA	125.00%	8741 VA	**Total Conn. Load:**	172231 VA
CABINET OUTLET	5760 VA	50.00%	2880 VA	**Total Est. Demand:**	126513 VA
CONV. RECEPT.	13800 VA	60.00%	8280 VA	**Total Conn. Current:**	478 A
DOOR OPERATOR	7312 VA	60.00%	4387 VA	**Total Est. Demand Current:**	357 A
FUEL STATION	8320 VA	75.00%	6240 VA	**Total Est. Demand Current *1.25:**	446 A
RACK OUTLET	4992 VA	75.00%	3744 VA		
COMMUNICATION	1800 VA	100.00%	1800 VA		

Branch Panel: 2A

Location: ELEC 08 **Volts:** 208/120 Wye **A.I.C. Rating:** 12kA
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	* SPACE FOR FUTURE EV CHARGER	--	2	--	--		2	--	* SPACE FOR FUTURE EV CHARGER	2
3					--	--				4
5	* SPACE FOR FUTURE EV CHARGER	--	2			--	2	--	* SPACE FOR FUTURE EV CHARGER	6
7				--	--					8
9										10
11										12
		Total Load:		0 VA	0 VA	0 VA				
		Total Amps:		0 A	0 A	0 A				

Legend:
* - BRANCH CIRCUIT TO BE PROVIDED WITH SEPARATE DIGITAL METERING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A
				Total Est. Demand Current * 1.25:	0 A

Branch Panel: 2B

Location: ELEC 08 **Volts:** 208/120 Wye **A.I.C. Rating:** 12kA
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 100 A
Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	CONV. RECEPT. ELEC 08	20 A	1	200			1	20 A	CONV. RECEPT. STORAGE 4, 5, 6, 7	2
3	* BUILDING EXTERIOR LIGHTING	20 A	1		286	400	1	20 A	CONV. RECEPT. COMM./IT 16	4
5	CONV. RECEPT.	20 A	1			400	1	20 A	* EXTERIOR LIGHTING	6
7	* EMERGENCY LIGHTING INVERTOR	20 A	1	1026	1050		1	20 A	* EXTERIOR LIGHTING	8
9	CONV. RECEPT. ELEC 08	20 A	1		1000	4160	2	50 A	* FUEL STATION	10
11	WC. 06	20 A	1			400				12
13	* BUILDING LIGHTING	20 A	1	1081	1800		1	20 A	CONV. RECEPT. MECH 09	14
15	DOOR OPERATOR	20 A	1		400					16
17										18
19	CONV. RECEPT. ELEC 08	20 A	1	400						20
21										22
23										24
25										26
27	SPARE	20 A	1		0	0	1	20 A	SPARE	28
29	SPARE	20 A	1			0	1	20 A	SPARE	30
		Total Load:		6357 VA	6246 VA	6310 VA				
		Total Amps:		53 A	52 A	53 A				

Legend:
* - BRANCH CIRCUIT TO BE PROVIDED WITH SEPARATE DIGITAL METERING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	4793 VA	125.00%	5991 VA		
CONV. RECEPT.	5400 VA	60.00%	3240 VA	**Total Conn. Load:**	18913 VA
DOOR OPERATOR	400 VA	60.00%	240 VA	**Total Est. Demand:**	15711 VA
FUEL STATION	8320 VA	75.00%	6240 VA	**Total Conn. Current:**	52 A
				Total Est. Demand Current:	44 A
				Total Est. Demand Current * 1.25:	55 A

Branch Panel: 2C

Location: COMM./IT 3 **Volts:** 208/120 Wye **A.I.C. Rating:** 12kA
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 50 A
Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	CONV. RECEPT. COMM./IT 3	20 A	1	400	600		1	20 A	INTRUSION DETECTION SYSTEM CABINET	2
3	RACK OUTLET	20 A	1		600	1920	1	20 A	ACCESS CONTROL SYSTEM CABINET	4
5	CABINET RECEPT. COMM./IT 3	20 A	1			1920	2	20 A	RACK OUTLET	6
7	ISP CABINET	20 A	1	600	2496					8
9	CABINET RECEPT. COMM./IT 3	20 A	1		1920					10
11	SPARE	20 A	1			0	1	20 A	SPARE	12
		Total Load:		4096 VA	4440 VA	4416 VA				
		Total Amps:		34 A	37 A	37 A				

Legend:
* - BRANCH CIRCUIT TO BE PROVIDED WITH SEPARATE DIGITAL METERING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
CABINET OUTLET	5760 VA	50.00%	2880 VA		
CONV. RECEPT.	400 VA	60.00%	240 VA	**Total Conn. Load:**	12952 VA
RACK OUTLET	4992 VA	75.00%	3744 VA	**Total Est. Demand:**	8664 VA
COMMUNICATION	1800 VA	100.00%	1800 VA	**Total Conn. Current:**	36 A
				Total Est. Demand Current:	24 A
				Total Est. Demand Current * 1.25:	30 A

PANEL SCHEDULE GENERAL NOTES

A. CONTRACTOR TO INSTALL NEWLY TYPE-WRITTEN DIRECTORIES IN ALL PANELS TO CLEARLY IDENTIFY ALL CONNECTED CIRCUITS.

B. AFTER INSTALLATION AND COMMISSIONING CONTRACTOR SHALL PERFORM LOAD BALANCE BETWEEN PHASE A,B, AND C FOR ALL PANELBOARDS SO THAT NO PHASE IS LOADED OVER THAN 15% OF OTHER PHASES.

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FORT McMURRAY INTERNATIONAL AIRPORT

REGISTERED OWNER:
FORT MCMURRAY AIRPORT AUTHORITY
300-100 SNOWBIRD WAY
FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN

PN

N

KEY PLAN

PROFESSIONAL ENGINEER ALBERTA
HUSSEIN DESOUKY
76394
May 30 2025

PERMIT TO PRACTICE
AECOM CANADA ULC
RM SIGNATURE:
RM APEGA ID #: 76394
DATE: May 30 2025
PERMIT NUMBER: P010450
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY CANNOT BE GUARANTEED. WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

REGISTRATION

FOR INFORMATION ONLY

NOT FOR CONSTRUCTION

ISSUE/REVISION

G	06/06/2025	ISSUED FOR TENDER
F	24/04/2025	ISSUED FOR TENDER (DRAFT)
E	14/02/2025	100% SUBMISSION
D	07/02/2025	ISSUED FOR 100% REVIEW
C	10/06/2024	60% SUBMISSION
B	31/05/2024	DRAFT 60% SUBMISSION
A	19/04/2024	30% SUBMISSION
I/R	DATE	DESCRIPTION

PRODUCTION INFORMATION

DRAWN: Author
REVIEWED: Checker
VERIFIED: Approver

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER **REVISION**

E400 **G**

ARCH D 24" X 36"
Last Plotted: 2025-05-29 3:43:37 PM
FILENAME: Autodesk Docs://BP-AMER (CAN) 60723990-FMAA QTA/60723990-FMAA QTA-01-E-R23.rvt

Branch Panel: 2F1

Location: WASH BAY 12 | **Volts:** 208/120 Wye | **A.I.C. Rating:** 12kA
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	GAS FIRED RADIANT TUBE HEATER IH-1, IH-2	20 A	1	40	72					1	20 A	# CEILING FAN CF-1	2
3	CONV. RECEPT.	20 A	1			400	400			1	20 A	CONV. RECEPT.	4
5	CONV. RECEPT.	20 A	1					400	400	1	20 A	CONV. RECEPT.	6
7	WASH BAY 12 LIGHTING	20 A	1	550	200					1	20 A	CAR WASH VACCUM RECEPT.	8
9	CO2/NO2 DETECTION SYSTEM	20 A	1			200	552						10
11	ROOF MAINTENANCE RECEPT.	20 A	1					200	552	3	20 A	EXHUAST FAN EF-1	12
13				576	552								14
15	O/H DOOR OPERATOR	20 A	3			576	1248						16
17								576	1248	3	20 A	MAKE UP AIR UNIT MUA-1	18
19				1493	1248								20
21	AIR CURTAIN ARC-1	20 A	3			1493	1493						22
23								1493	1493	3	20 A	AIR CURTAIN ARC-2	24
25					1493								26
27													28
29													30
31													32
33													34
35													36
37													38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
			Total Load:	6224 VA		6362 VA		6362 VA					
			Total Amps:	52 A		53 A		53 A					

Legend:
* - BRANCH CIRCUIT TO BE PROVIDED WITH SEPARATE DIGITAL METERING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	14671 VA	75.00%	11003 VA		
LIGHTING	550 VA	125.00%	688 VA	**Total Conn. Load:**	18949 VA
CONV. RECEPT.	2000 VA	60.00%	1200 VA	**Total Est. Demand:**	13928 VA
DOOR OPERATOR	1728 VA	60.00%	1037 VA	**Total Conn. Current:**	53 A
				Total Est. Demand Current:	39 A
				Total Est. Demand Current * 1.25:	48 A

Branch Panel: 2F2

Location: WASH BAY 13 | **Volts:** 208/120 Wye | **A.I.C. Rating:** 12kA
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	GAS FIRED RADIANT TUBE HEATER IH-3, IH-4	20 A	1	40	72					1	20 A	# CEILING FAN CF-2	2
3	CONV. RECEPT.	20 A	1			400	400			1	20 A	CONV. RECEPT.	4
5	CONV. RECEPT.	20 A	1					400	400	1	20 A	CONV. RECEPT.	6
7	WASH BAY 13 LIGHTING	20 A	1	550	200					1	20 A	CAR WASH VACCUM RECEPT.	8
9	CO2/NO2 DETECTION SYSTEM	20 A	1			200	552						10
11	ROOF MAINTENANCE RECEPT.	20 A	1					200	552	3	20 A	EXHUAST FAN EF-2	12
13				576	552								14
15	O/H DOOR OPERATOR	20 A	3			576	1248						16
17								576	1248	3	20 A	MAKE UP AIR UNIT MUA-2	18
19				1493	1248								20
21	AIR CURTAIN ARC-3	20 A	3			1493	1493						22
23								1493	1493	3	20 A	AIR CURTAIN ARC-4	24
25					1493								26
27													28
29													30
31													32
33													34
35													36
37													38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
			Total Load:	6224 VA		6362 VA		6362 VA					
			Total Amps:	52 A		53 A		53 A					

Legend:
* - BRANCH CIRCUIT TO BE PROVIDED WITH SEPARATE DIGITAL METERING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	14671 VA	75.00%	11003 VA		
LIGHTING	550 VA	125.00%	688 VA	**Total Conn. Load:**	18949 VA
CONV. RECEPT.	2000 VA	60.00%	1200 VA	**Total Est. Demand:**	13928 VA
DOOR OPERATOR	1728 VA	60.00%	1037 VA	**Total Conn. Current:**	53 A
				Total Est. Demand Current:	39 A
				Total Est. Demand Current * 1.25:	48 A

Branch Panel: 2F3

Location: WASH BAY 14 | **Volts:** 208/120 Wye | **A.I.C. Rating:** 12kA
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	GAS FIRED RADIANT TUBE HEATER IH-5, IH-6	20 A	1	40	72					1	20 A	# CEILING FAN CF-3	2
3	CONV. RECEPT.	20 A	1			400	400			1	20 A	CONV. RECEPT.	4
5	CONV. RECEPT.	20 A	1					400	400	1	20 A	CONV. RECEPT.	6
7	WASH BAY 14 LIGHTING	20 A	1	550	200					1	20 A	CAR WASH VACCUM RECEPT.	8
9	CO2/NO2 DETECTION SYSTEM	20 A	1			200	552						10
11	ROOF MAINTENANCE RECEPT.	20 A	1					200	552	3	20 A	EXHUAST FAN EF-3	12
13				576	552								14
15	O/H DOOR OPERATOR	20 A	3			576	1248						16
17								576	1248	3	20 A	MAKE UP AIR UNIT MUA-3	18
19				1493	1248								20
21	AIR CURTAIN ARC-5	20 A	3			1493	1493						22
23								1493	1493	3	20 A	AIR CURTAIN ARC-6	24
25					1493								26
27													28
29													30
31													32
33													34
35													36
37													38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
			Total Load:	6224 VA		6362 VA		6362 VA					
			Total Amps:	52 A		53 A		53 A					

Legend:
* - BRANCH CIRCUIT TO BE PROVIDED WITH SEPARATE DIGITAL METERING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	14671 VA	75.00%	11003 VA		
LIGHTING	550 VA	125.00%	688 VA	**Total Conn. Load:**	18949 VA
CONV. RECEPT.	2000 VA	60.00%	1200 VA	**Total Est. Demand:**	13928 VA
DOOR OPERATOR	1728 VA	60.00%	1037 VA	**Total Conn. Current:**	53 A
				Total Est. Demand Current:	39 A
				Total Est. Demand Current * 1.25:	48 A

Branch Panel: 2F4

Location: WASH BAY 15 | **Volts:** 208/120 Wye | **A.I.C. Rating:** 12kA
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	GAS FIRED RADIANT TUBE HEATER IH-7, IH-8	20 A	1	40	72					1	20 A	# CEILING FAN CF-4	2
3	CONV. RECEPT.	20 A	1			400	400			1	20 A	CONV. RECEPT.	4
5	CONV. RECEPT.	20 A	1					400	400	1	20 A	CONV. RECEPT.	6
7	WASH BAY 15 LIGHTING	20 A	1	550	200					1	20 A	CAR WASH VACCUM RECEPT.	8
9	CO2/NO2 DETECTION SYSTEM	20 A	1			200	552						10
11	ROOF MAINTENANCE RECEPT.	20 A	1					200	552	3	20 A	EXHUAST FAN EF-4	12
13				576	552								14
15	DOOR OPERATOR	20 A	3			576	1248						16
17								576	1248	3	20 A	MAKE UP AIR UNIT MUA-4	18
19				1493	1248								20
21	AIR CURTAIN ARC-7	20 A	3			1493	1493						22
23								1493	1493	3	20 A	AIR CURTAIN ARC-8	24
25					1493								26
27													28
29													30
31													32
33													34
35													36
37													38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
			Total Load:	6224 VA		6362 VA		6362 VA					
			Total Amps:	52 A		53 A		53 A					

Legend:
* - BRANCH CIRCUIT TO BE PROVIDED WITH SEPARATE DIGITAL METERING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	14671 VA	75.00%	11003 VA		
LIGHTING	550 VA	125.00%	688 VA	**Total Conn. Load:**	18949 VA
CONV. RECEPT.	2000 VA	60.00%	1200 VA	**Total Est. Demand:**	13928 VA
DOOR OPERATOR	1728 VA	60.00%	1037 VA	**Total Conn. Current:**	53 A
				Total Est. Demand Current:	39 A
				Total Est. Demand Current * 1.25:	48 A

PANEL SCHEDULE GENERAL NOTES

A. CONTRACTOR TO INSTALL NEWLY TYPE-WRITTEN DIRECTORIES IN ALL PANELS TO CLEARLY IDENTIFY ALL CONNECTED CIRCUITS.

B. AFTER INSTALLATION AND COMMISSIONING CONTRACTOR SHALL PERFORM LOAD BALANCE BETWEEN PHASE A,B, AND C FOR ALL PANELBOARDS SO THAT NO PHASE IS LOADED OVER THAN 15% OF OTHER PHASES.

AECOM
CONSULTANT
PRIME:
AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4

PROJECT
AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY,
FORT MCMURRAY, ALBERTA

PROJECT NUMBER
60723990

CLIENT
FORT McMURRAY INTERNATIONAL AIRPORT

REGISTERED OWNER:
FORT MCMURRAY AIRPORT AUTHORITY
300-100 SNOWBIRD WAY
FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN
PN
N

KEY PLAN

PROFESSIONAL ENGINEER ALBERTA
HUSSEIN DESOUKI
76394
May 30 2025

PERMIT TO PRACTICE
AECOM CANADA ULC
RM SIGNATURE:
RM APEGA ID #: 76394
DATE: May 30 2025
PERMIT NUMBER: P010450
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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REGISTRATION

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ISSUE/REVISION

I/R	DATE	DESCRIPTION
G	06/06/2025	ISSUED FOR TENDER
F	24/04/2025	ISSUED FOR TENDER (DRAFT)
E	14/02/2025	100% SUBMISSION
D	07/02/2025	ISSUED FOR 100% REVIEW
C	10/06/2024	60% SUBMISSION
B	31/05/2024	DRAFT 60% SUBMISSION
A	19/04/2024	30% SUBMISSION

PRODUCTION INFORMATION
DRAWN: Author
REVIEWED: Checker
VERIFIED: Approver

SHEET TITLE
ELECTRICAL SCHEDULES

SHEET NUMBER: **E401** REVISION: **G**

ARCH D 24" X 36"
Last Plotted: 2025-05-29 3:43:40 PM
FILENAME: Autodesk Docs://BP-AMER (CAN) 60723990-FMAA QTA/60723990-FMAA QTA-01-E-R23.rvt

Branch Panel: 2M

Location: MECH. 11
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FF-1 & FF-2	20 A	1	60	197					1	20 A	SNOW MELT PANEL SMP-1	2
3	UH-1	20 A	1			111	200			1	20 A	WATER SOFTNER CARWASH EQUIP. MECH. 10	4
5	UH-4, UH-5, UH-6 & UH-7	20 A	1					148	313	1	20 A	EF-5	6
7	SF-1	20 A	1	370	394					1	20 A	P-3 & P-4	8
9	GFT-2	20 A	1			50	600			1	20 A	DWH-2	10
11	P-1	20 A	1					480	480	1	20 A	P-2	12
13	P-5 & P-6	20 A	1	394	1581					2	20 A	CU-2	14
15	CU-3	20 A	2			1581	1581						16
17								1581	2080	2	30 A	CU-1	18
19	GFT-1	20 A	1	50	2080								20
21	BUILDING MANAGEMENT SYSTEM	20 A	1			200	300			1	20 A	B-2	22
23	GFT-3	20 A	1					50	200	1	20 A	TRAP PRIMER	24
25	DWH-1	20 A	1	600	300					1	20 A	B-4	26
27	WATER SOFTNER CARWASH EQUIP. MECH. 10	20 A	1			200							28
29	CONV. RECEPT. EXTERIOR	20 A	1					400	300	1	20 A	B-3	30
31	B-1	20 A	1	300	701								32
33	ERV-2	20 A	3			701	701			3	20 A	ERV-1	34
35								701	701				36
37				701	2879					3	30 A	* CARWASH EQUIPMENT TWIST LOCK RECEPT.	38
39						2879	2879						40
41	* WASH BAY VACCUM	20 A	3					2879	2879				42
43				2879	2879					3	20 A	* CARWASH EQUIPMENT TWIST LOCK RECEPT.	44
45	* CARWASH EQUIPMENT TWIST LOCK RECEPT.	30 A	3			2879	2879						46
47								2879	2879				48
49				2879	2879					3	20 A	* CARWASH EQUIPMENT TWIST LOCK RECEPT.	50
51							2879						52
53									2879				54
55													56
57													58
59													60
61													62
63													64
65													66
67													68
69													70
71													72
73													74
75													76
77													78
79													80
81	SPARE	20 A	1			0	0			1	20 A	SPARE	82
83	SPARE	20 A	1					0	0	1	20 A	SPARE	84
		Total Load:		22122 VA		20619 VA		21828 VA					
		Total Amps:		186 A		172 A		183 A					

Legend:
* - BRANCH CIRCUIT TO BE PROVIDED WITH SEPARATE DIGITAL METERING

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	64570 VA	75.00%	48428 VA		
				Total Conn. Load:	64570 VA
				Total Est. Demand:	48428 VA
				Total Conn. Current:	179 A
				Total Est. Demand Current:	134 A
				Total Est. Demand Current * 1.25:	168 A

PANEL SCHEDULE GENERAL NOTES

A. CONTRACTOR TO INSTALL NEWLY TYPE-WRITTEN DIRECTORIES IN ALL PANELS TO CLEARLY IDENTIFY ALL CONNECTED CIRCUITS.

B. AFTER INSTALLATION AND COMMISSIONING CONTRACTOR SHALL PERFORM LOAD BALANCE BETWEEN PHASE A,B, AND C FOR ALL PANELBOARDS SO THAT NO PHASE IS LOADED OVER THAN 15% OF OTHER PHASES.

MECHANICAL EQUIPMENT SCHEDULE

TAG	DESCRIPTION	VOLTAGE	POLE	VA	CONDUCTOR	CONDUIT	STARTER	NOTE
AC-1	INDOOR AIR CONDITIONING UNIT	208 V	2	0 VA	2#12+#12BND	21mmC	SPPC	POWER BY OUTDOOR UNIT
AC-2	INDOOR AIR CONDITIONING UNIT	208 V	2	0 VA	2#12+#12BND	21mmC	SPPC	POWER BY OUTDOOR UNIT
AC-3	INDOOR AIR CONDITIONING UNIT	208 V	2	0 VA	2#12+#12BND	21mmC	SPPC	POWER BY OUTDOOR UNIT
ARC-1	AIR CURTAIN	208 V	3	4480 VA	3#12+#12BND	21mmC	SPPC	
ARC-2	AIR CURTAIN	208 V	3	4480 VA	3#12+#12BND	21mmC	SPPC	
ARC-3	AIR CURTAIN	208 V	3	4480 VA	3#12+#12BND	21mmC	SPPC	
ARC-4	AIR CURTAIN	208 V	3	4480 VA	3#12+#12BND	21mmC	SPPC	
ARC-5	AIR CURTAIN	208 V	3	4480 VA	3#12+#12BND	21mmC	SPPC	
ARC-6	AIR CURTAIN	208 V	3	4480 VA	3#12+#12BND	21mmC	SPPC	
ARC-7	AIR CURTAIN	208 V	3	4480 VA	3#12+#12BND	21mmC	SPPC	
ARC-8	AIR CURTAIN	208 V	3	4480 VA	3#12+#12BND	21mmC	SPPC	
B-1	GAS HOT WATER BOILER	120 V	1	300 VA	2#12+#12BND	21mmC	SPPC	
B-2	GAS HOT WATER BOILER	120 V	1	300 VA	2#12+#12BND	21mmC	SPPC	
B-3	GAS HOT WATER BOILER	120 V	1	300 VA	2#12+#12BND	21mmC	SPPC	
B-4	GAS HOT WATER BOILER	120 V	1	300 VA	2#12+#12BND	21mmC	SPPC	
BMS	BUILDING MANAGEMENT SYSTEM	120 V	1	200 VA	2#12+#12BND	21mmC	SPPC	
CF-1	CEILING FAN	120 V	1	72 VA	2#12+#12BND	21mmC	SPPC	
CF-2	CEILING FAN	120 V	1	72 VA	2#12+#12BND	21mmC	SPPC	
CF-3	CEILING FAN	120 V	1	72 VA	2#12+#12BND	21mmC	SPPC	
CF-4	CEILING FAN	120 V	1	72 VA	2#12+#12BND	21mmC	SPPC	
CU-1	OUTDOOR AIR CONDITIONING UNIT	208 V	2	4160 VA	3#10+#12BND	21mmC	SPPC	
CU-2	OUTDOOR AIR CONDITIONING UNIT	208 V	2	3162 VA	3#12+#12BND	21mmC	SPPC	
CU-3	OUTDOOR AIR CONDITIONING UNIT	208 V	2	3162 VA	3#12+#12BND	21mmC	SPPC	
CWAC	CARWASH AIR COMPRESSOR	208 V	3	8637 VA	3#10+#12BND	21mmC	SPPC	
CWP-1	CARWASH EQUIPMENT PACKAGE	208 V	3	8637 VA	3#10+#12BND	21mmC	SPPC	
CWP-2	CARWASH EQUIPMENT PACKAGE	208 V	3	8637 VA	3#10+#12BND	21mmC	SPPC	
CWP-3	CARWASH EQUIPMENT PACKAGE	208 V	3	8637 VA	3#10+#12BND	21mmC	SPPC	
CWP-4	CARWASH EQUIPMENT PACKAGE	208 V	3	8637 VA	3#10+#12BND	21mmC	SPPC	
DWH-1	GAS FIRED DOMESTIC WATER HEATER	120 V	1	600 VA	2#12+#12BND	21mmC	N/A	
DWH-2	GAS FIRED DOMESTIC WATER HEATER	120 V	1	600 VA	2#12+#12BND	21mmC	N/A	
EF-1	EXHAUST FAN	208 V	3	1656 VA	3#12+#12BND	21mmC	VFD	ELECTRICAL CONTRACTOR TO PROVIDE LINE REACTOR. MECHANICAL TO SUPPLY VFD AND CONFIRM LOCATION.
EF-2	EXHAUST FAN	208 V	3	1656 VA	3#12+#12BND	21mmC	VFD	ELECTRICAL CONTRACTOR TO PROVIDE LINE REACTOR. MECHANICAL TO SUPPLY VFD AND CONFIRM LOCATION.
EF-3	EXHAUST FAN	208 V	3	1656 VA	3#12+#12BND	21mmC	VFD	ELECTRICAL CONTRACTOR TO PROVIDE LINE REACTOR. MECHANICAL TO SUPPLY VFD AND CONFIRM LOCATION.
EF-4	EXHAUST FAN	208 V	3	1656 VA	3#12+#12BND	21mmC	VFD	ELECTRICAL CONTRACTOR TO PROVIDE LINE REACTOR. MECHANICAL TO SUPPLY VFD AND CONFIRM LOCATION.
EF-5	EXHAUST FAN	120 V	1	313 VA	2#12+#12BND	21mmC	MG	
ERV-1	ENERGY RECOVERY VENTILATOR	208 V	3	2102 VA	3#12+#12BND	21mmC	SPPC	
ERV-2	ENERGY RECOVERY VENTILATOR	208 V	3	2102 VA	3#12+#12BND	21mmC	SPPC	
FF-1	FORCE FLOW HEATER	120 V	1	30 VA	2#12+#12BND	21mmC	SPPC	
FF-2	FORCE FLOW HEATER	120 V	1	30 VA	2#12+#12BND	21mmC	SPPC	
GFT-1	GLYCOL FILL TANK	120 V	1	50 VA	2#12+#12BND	21mmC	SPPC	
GFT-2	GLYCOL FILL TANK	120 V	1	50 VA	2#12+#12BND	21mmC	SPPC	
GFT-3	GLYCOL FILL TANK	120 V	1	50 VA	2#12+#12BND	21mmC	SPPC	
IH-1	GAS FIRED RADIANT TUBE HEATER	120 V	1	20 VA	2#12+#12BND	21mmC	N/A	
IH-2	GAS FIRED RADIANT TUBE HEATER	120 V	1	20 VA	2#12+#12BND	21mmC	N/A	
IH-3	GAS FIRED RADIANT TUBE HEATER	120 V	1	20 VA	2#12+#12BND	21mmC	N/A	
IH-4	GAS FIRED RADIANT TUBE HEATER	120 V	1	20 VA	2#12+#12BND	21mmC	N/A	
IH-5	GAS FIRED RADIANT TUBE HEATER	120 V	1	20 VA	2#12+#12BND	21mmC	N/A	
IH-6	GAS FIRED RADIANT TUBE HEATER	120 V	1	20 VA	2#12+#12BND	21mmC	N/A	
IH-7	GAS FIRED RADIANT TUBE HEATER	120 V	1	20 VA	2#12+#12BND	21mmC	N/A	
IH-8	GAS FIRED RADIANT TUBE HEATER	120 V	1	20 VA	2#12+#12BND	21mmC	N/A	
MUA-1	MAKE UP AIR UNIT	208 V	3	3743 VA	3#12+#12BND	21mmC	VFD	
MUA-2	MAKE UP AIR UNIT	208 V	3	3743 VA	3#12+#12BND	21mmC	VFD	
MUA-3	MAKE UP AIR UNIT	208 V	3	3743 VA	3#12+#12BND	21mmC	VFD	
MUA-4	MAKE UP AIR UNIT	208 V	3	3743 VA	3#12+#12BND	21mmC	VFD	
P-1	STORAGE AREA SECONDARY PUMP	120 V	1	480 VA	2#12+#12BND	21mmC	ECM	
P-2	STORAGE AREA SECONDARY PUMP	120 V	1	480 VA	2#12+#12BND	21mmC	ECM	
P-3	WASH BAY IN-SLAB HEATING CIRCULATING PUMP	120 V	1	197 VA	2#12+#12BND	21mmC	ECM	
P-4	WASH BAY IN-SLAB HEATING CIRCULATING PUMP	120 V	1	197 VA	2#12+#12BND	21mmC	ECM	
P-5	WASH BAY IN-SLAB HEATING CIRCULATING PUMP	120 V	1	197 VA	2#12+#12BND	21mmC	ECM	
P-6	WASH BAY IN-SLAB HEATING CIRCULATING PUMP	120 V	1	197 VA	2#12+#12BND	21mmC	ECM	
SF-1	SUPPLY FAN	120 V	1	370 VA	2#12+#12BND	21mmC	MG	
SMP-1	SNOW MELTING PANEL	120 V	1	197 VA	2#12+#12BND	21mmC	SPPC	
TP	TRAP PRIMER	120 V	1	200 VA	2#12+#12BND	21mmC	SPPC	
UH-1	HYDRONIC UNIT HEATER	120 V	1	37 VA	2#12+#12BND	21mmC	SPPC	
UH-2	HYDRONIC UNIT HEATER	120 V	1	37 VA	2#12+#12BND	21mmC	SPPC	
UH-3	HYDRONIC UNIT HEATER	120 V	1	37 VA	2#12+#12BND	21mmC	SPPC	
UH-4	HYDRONIC UNIT HEATER	120 V	1	37 VA	2#12+#12BND	21mmC	SPPC	
UH-5	HYDRONIC UNIT HEATER	120 V	1	37 VA	2#12+#12BND	21mmC	SPPC	
UH-6	HYDRONIC UNIT HEATER	120 V	1	37 VA	2#12+#12BND	21mmC	SPPC	
UH-7	HYDRONIC UNIT HEATER	120 V	1	37 VA	2#12+#12BND	21mmC	SPPC	

MECHANICAL EQUIPMENT SCHEDULE ABBREVIATIONS:

SPPC: SINGLE POINT POWER CONNECTION
VFD: VARIABLE FREQUENCY DRIVE
MG: MAGNETIC STARTER
ECM: EC MOTOR

AECOM

CONSULTANT

PRIME:
AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4

PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY,
FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

CLIENT

FORT McMURRAY INTERNATIONAL AIRPORT

REGISTERED OWNER:
FORT MCMURRAY AIRPORT AUTHORITY
300-100 SNOWBIRD WAY
FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN

PN
N

KEY PLAN

PROFESSIONAL ENGINEER ALBERTA
HUSSEIN DESOUKI
76394
May 30 2025

PERMIT TO PRACTICE
AECOM CANADA ULC
RM SIGNATURE:
RM APEGA ID #: 76394
DATE: May 30 2025
PERMIT NUMBER: P010450
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY CANNOT BE GUARANTEED. WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

REGISTRATION

FOR INFORMATION ONLY

NOT FOR CONSTRUCTION

ISSUE/REVISION

I/R	DATE	DESCRIPTION
G	06/06/2025	ISSUED FOR TENDER
F	24/04/2025	ISSUED FOR TENDER (DRAFT)
E	14/02/2025	100% SUBMISSION
D	07/02/2025	ISSUED FOR 100% REVIEW
C	10/06/2024	60% SUBMISSION
B	31/05/2024	DRAFT 60% SUBMISSION
A	19/04/2024	30% SUBMISSION

PRODUCTION INFORMATION

DRAWN: Author
REVIEWED: Checker
VERIFIED: Approver

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER **E402**

REVISION **G**