GENERAL NOTES (APPLY TO ALL DRAWINGS UNLESS OTHERWISE NOTED)

- DO NOT SCALE THESE DRAWINGS. ALL DIMENSIONS MUST BE OBTAINED FROM STATED DIMENSIONS. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS INCLUDING THE PROJECT SPECIFICATIONS. ALL WORK MUST COMPLY WITH OR EXCEED THE
- STANDARDS ESTABLISHED BY THE NATIONAL BUILDING CODE OF CANADA. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND GRADES PRIOR TO CONSTRUCTION.

ABBREVIATIONS				
ABBREVIATIONS	DESCRIPTION			
AFF	ABOVE FINISHED FLOOR			
В	BOILER			
BAD	BAROMETRIC DAMPER			
ВВН	BASEBOARD HEATER			
ВСР	BOILER CONTROL PANEL			
BMS	BUILDING MANAGEMENT SYSTEM			
СВ	CATCH BASIN			
CF	CEILING FAN			
СО	CLEAN OUT			
СР	CONTROL PANEL			
DCW	DOMESTIC COLD WATER			
DHW	DOMESTIC HOT WATER			
DHWR	DOMESTIC HOT WATER RECIRC.			
DN	DOWN			
EL	ELEVATION			
EEW	EMERGENCY SHOWER W/ EYESWASH			
ET	EXPANSION TANK			
F/A	FROM ABOVE			
F/B	FROM BELOW			
FCO	FLOOR CLEAN OUT			
FD	FLOOR DRAIN			
FFD	FUNNEL FLOOR DRAIN			
FFH	FORCE FLOW HEATER			
FPS	FIRE PROTECTION SUPPLY			
FSH	FLOW SWITCH			
GFT	GLYCOL FILL TANK			
НВ	HOSE BIBB			
HEX	HEAT EXCHANGER			
JS	JANITOR SINK			
KS	KITCHEN SINK			

ABBREVIATIONS	DESCRIPTION
LAV	LAVATORY
MD	MOTORIZED DAMPER
MF	MANIFOLD
MS	MOP SINK
MUA	MAKE-UP AIR
MV	MIXING VALVE
NC	NORMALLY CLOSED
NFHB	NON FREEZE HOSE BIBB
NG	NATURAL GAS
NO	NORMALLY OPEN
PHC	PREHEAT COIL
PRD	PRESSURE RELIEF DOOR
PRV	PRESSURE RELIEF VALVE
RD	ROOF DRAIN
RF	RETURN FAN
RHC	REHEAT COIL
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
SH	SHOWER
SK	SINK
SMP	SUMP
SPR	SEPARATOR
ST	STORM
Т	TANK
T/A	TO ABOVE
T/B	TO BELOW
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
TPD	TRAP PRIMER DEVICE
TYP	TYPICAL
UH	UNIT HEATER
UR	URINAL
US	UTILITY SINK
WC	WATER CLOSET

ABBREVIATIONS CONTINUED

VALV	ES AND PIPING SYMBOLS
SYMBOL	DESCRIPTION
\bowtie	THREE WAY VALVE
\bowtie	GATE VALVE (NORMALLY OPEN)
M	GATE VALVE (NORMALLY CLOSED)
M	BALL VALVE
7	CHECK VALVE
对	CIRCUIT BALANCING VALVE
IļI	UNION
II	FLANGE
D	CONCENTRIC REDUCER
0	ECCENTRIC REDUCER
H	STRAINER
3	CAP
AAV A	AUTOMATIC AIR VENT
MAV X	MANUAL AIR VENT
9	PRESSURE GAUGE
+1	THERMOMETER W/ WELL
- \$-	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
FĈV	3-WAY FLOW CONTROL VALVE CONTROLLED BY SCADA
— ↓	RELIEF VALVE
S	SOLENOID VALVE
M	MOTORIZED VALVE
—x——x—	PIPE ANCHOR
	TRIPLE DUTY VALVE
P	LUMBING & DRAINAGE

SYMBOL

____ co

TD

TPD

1% ___

GATE VALVE (NORWALLY CLOSED)	R/A	RETURN AIR (DOWN)
BALL VALVE		
CHECK VALVE	E/A	EXHAUST AIR (DOWN)
CIRCUIT BALANCING VALVE		- (-)
UNION	T/A	TRANSFER AIR (DOWN)
FLANGE		
CONCENTRIC REDUCER	O/A	OUTDOOR AIR (DOWN)
ECCENTRIC REDUCER		
STRAINER		ROUND DUCTWORK DOWN
CAP		
AUTOMATIC AIR VENT	S/A	SUPPLY AIR (UP)
MANUAL AIR VENT		
PRESSURE GAUGE	R/A	RETURN AIR (UP)
THERMOMETER W/ WELL		
2-WAY CONTROL VALVE	E/A	EXHAUST AIR (UP)
3-WAY CONTROL VALVE		
PRESSURE REDUCING VALVE	T/A	TRANSFER AIR (UP)
3-WAY FLOW CONTROL VALVE		, ,
CONTROLLED BY SCADA	O/A	OUTDOOR AIR (UP)
RELIEF VALVE		
		ROUND DUCTWORK (UP)
SOLENOID VALVE		
MOTORIZED VALVE	F———	FIRE DAMPER
PIPE ANCHOR		
TRIPLE DUTY VALVE	FS	FIRE/SMOKE DAMPER
TRIPLE DUTT VALVE		
	M // //	MOTORIZED DAMPER
JMBING & DRAINAGE		
DESCRIPTION	BDD — —	BACKDRAFT DAMPER
FLOOR DRAIN (TYPE)		
TRENCH DRAIN	BAR	BAROMETRIC DAMPER
HOSE BIBB		
FLOOR CLEANOUT		BALANCING DAMPER
CLEANOUT		
P-TRAP		DUCT FLEXIBLE CONNECTION
RUNNING TRAP WITH CLEANOUT		
TRAP PRIMING DEVICE		DUCT c/w ACOUSTIC INSULATION
DIRECTION OF FLUID FLOW		
GRADE DOWN IN DIRECTION OF ARROW		AIR FLOW DIRECTION
REDUCED PRESSURE	ر ر	
BACKFLOW PREVENTER		TURNING VANES
		INII INIE DUMO
		INLINE PUMP
		TDANIGEED AID DUGT
		TRANSFER AIR DUCT
	300X200 -	DUCT WIDTH & HEIGHT (mm)
	Ø250 -	— DUCT DIAMETER (mm)

ME	CHANICAL HVAC SYMBOLS		PIPING IDENTIFICATION
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S/A	CLIDDLY AID (DOWN)		DOMESTIC COLD WATER SUPPLY
SIA	SUPPLY AIR (DOWN)		DOMESTIC HOT WATER SUPPLY
R/A	RETURN AIR (DOWN)		— DOMESTIC HOT WATER RECIRC.
		————————	- SANITARY
E/A	EXHAUST AIR (DOWN)		- SANITARY VENT
		GHWS	GLYCOL HOT WATER SUPPLY
T/A	TRANSFER AIR (DOWN)	——-GHWR—-	GLYCOL HOT WATER RETURN
0/4	OUTDOOR AIR (DOWN)	CA	COMPRESSED AIR
O/A	OUTDOOK AIR (DOWN)	CD	CONDENSATE DRAIN
	ROUND DUCTWORK DOWN	NG	- NATURAL GAS
	ROOME BOOTWORK BOWN	TW	TEMPERED WATER
S/A	SUPPLY AIR (UP)		PIPE DROP
SIA	0011217411(01)		PIPE RISE
R/A	RETURN AIR (UP)		PIPE TEE DOWN
IN/A	NETOTAL (OF)		PIPE TEE UP
E/A	EXHAUST AIR (UP)	-	- FLOW DIRECTION
L/A	EXHAUST AIR (UF)		PIPE CONTINUATION
T/A	TRANSFER AIR (UP)		
		-	GENERAL NOTE

SUPPLY DIFFUSER GRILLE

RETURN DIFFUSER GRILLE

EXHAUST DIFFUSER GRILLE

UNIT HEATER

TURNING VANES

FAN/BLOWER

KEY NOTE NUMBER
SECTION CUT MARK
A - SECTION#

	STANDARD DETAIL TAG
STD -	STANDARD DETAIL
P-110 /-	DISCIPLINE LETTER AND #

DRAWING #

SECTION CUT MARKS

_/		— QUANTITY REQUIRED
x@ [XX-1	TYPE
	XXX	SIZE (mm)
Ī	XX	AIR FLOW (L/s)

Sheet	
Number	Sheet Name
M-001	MECHANICAL NOTES, SYMBOLS AND LEGENDS
M-101	MECHANICAL UNDERSLAB PLUMBING PLAN
M-102	MECHANICAL GROUND FLOOR PLUMBING PLAN
M-103	MECHANICAL GROUND FLOOR HEATING PLAN
M-104	MECHANICAL GROUND FLOOR HEATING PLAN
M-105	MECHANICAL GROUND FLOOR HVAC PLAN
M-106	MECHANICAL GROUND FLOOR HVAC PLAN
M-107	MECHANICAL ROOF PLAN
M-401	ENLARGED PLANS AND SECTIONS
M-402	ENLARGED PLANS AND SECTIONS
M-403	ENLARGED PLANS AND SECTIONS
M-404	ENLARGED PLANS AND SECTIONS
M-405	ENLARGED PLANS AND SECTIONS
M-406	ENLARGED PLANS AND SECTIONS
M-501	MECHANICAL SCHEMATICS GAS AND WATER SCHEMATIC
M-502	MECHANICAL SCHEMATICS HEATING SCHEMATIC
M-503	MECHANICAL SCHEMATICS WASH BAY IN-SLAB HEATING SCHEMATIC
M-504	MECHANICAL SCHEMATICS SNOW MELT HEATING SCHEMATIC
M-601	DETAILS 1 OF 3
M-602	DETAILS 2 OF 3
M-603	DETAILS 3 OF 3
M-701	MECHANICAL SCHEDULES 1 OF 4
M-702	MECHANICAL SCHEDULES 2 OF 4

M-703 MECHANICAL SCHEDULES 3 OF 4 M-704 MECHANICAL SCHEDULES 4 OF 4

CONTROL SYMBOLS	AECOM
DESCRIPTION	
THERMOSTAT	CONSULTANT
SWITCH	PRIME: AECOM Canada Architects Ltd.
TEMPERATURE SENSOR	50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4
FREEZE STAT	

CONTROL SYMBOLS

FREEZE STAT

WATER METER

GAS METER

FLOW SWITCH

DISCONNECT SWITCH

PRESSURE SENSOR

HUMIDITY SENSOR

OCCUPANCY SENSOR

CARBON MONOXIDE SENSOR

NITROGEN DIOXIDE SENSOR

CONTROL WIRING (LOW VOLTAGE)

DESCRIPTION

FIRE DEPARTMENT CONNECTION

TEMPERATURE TRANSMITTER

DIFFERENTIAL PRESSURE

TRANSMITTER

ENERGY METER

FIRE PROTECTION EQUIPMENT

FIRE EXTINGUISHER

SYMBOL

(TS)

PS

FS

CO

EM

SYMBOL

《》

PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

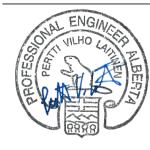
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REGISTRERED OWNER: FORT MCMURRAY AIRPORT AUTHORITY 300-100 SNOWBIRD WAY FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN

KEY PLAN



PERMIT TO PRACTICE AECOM CANADA ULC RM APEGA ID #: 76394 June 24 2025 PERMIT NUMBER: P010450 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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7 06/06/2025 ISSUED FOR TENDER 6 24/04/2025 ISSUED FOR TENDER (DRAFT) 5 07/03/2025 ISSUED FOR BUILDING 4 | 14/02/2025 | 100% SUBMISSION 3 07/02/2025 ISSUED FOR 100% REVIEW 2 10/06/2024 60% DESIGN

1 | 19/04/2024 | 30% DESIGN I/R DATE DESCRIPTION

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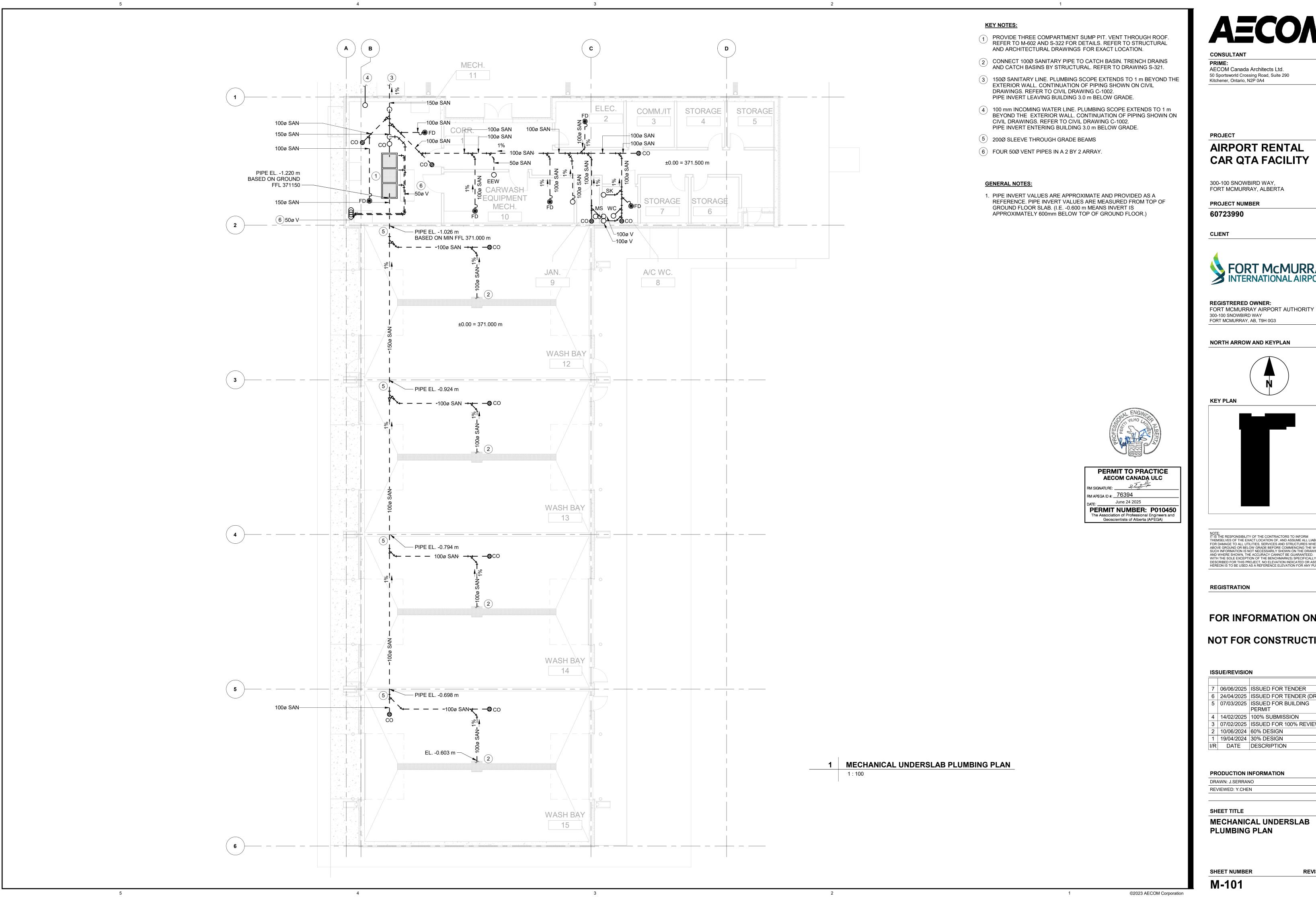
DRAWN: J.SERRANO REVIEWED: Y.CHEN

SHEET TITLE

MECHANICAL NOTES, SYMBOLS AND LEGENDS

SHEET NUMBER

REVISION



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

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

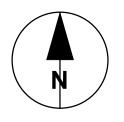
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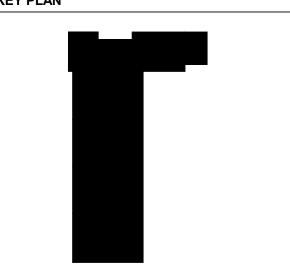


300-100 SNOWBIRD WAY FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN



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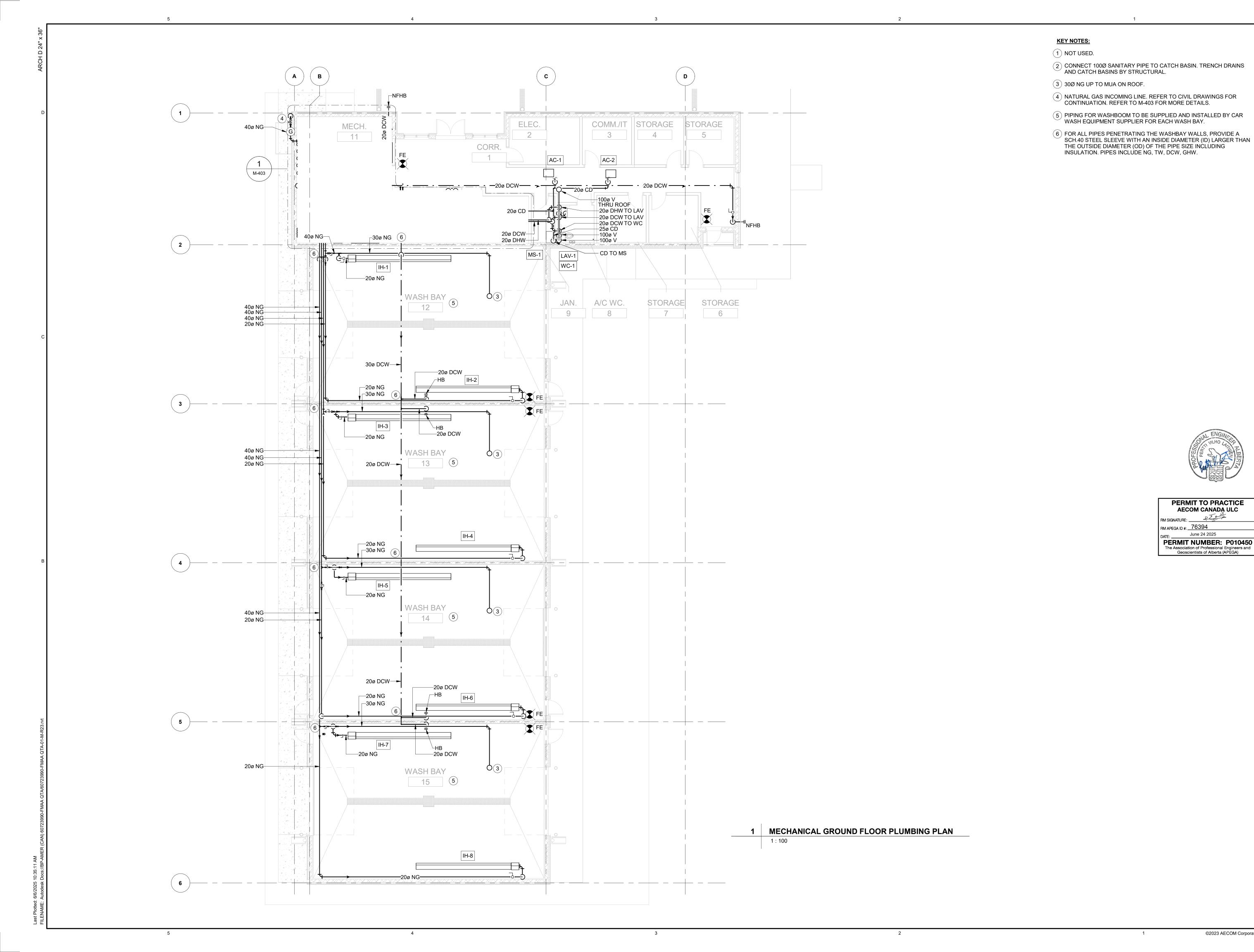
REVIEWED: Y.CHEN

SHEET TITLE

MECHANICAL UNDERSLAB PLUMBING PLAN

SHEET NUMBER

REVISION



CONSULTANT

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PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

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CLIENT



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

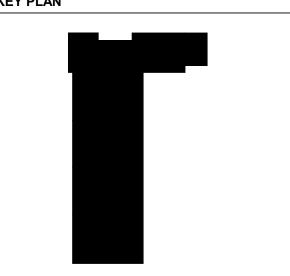
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KEY PLAN

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June 24 2025



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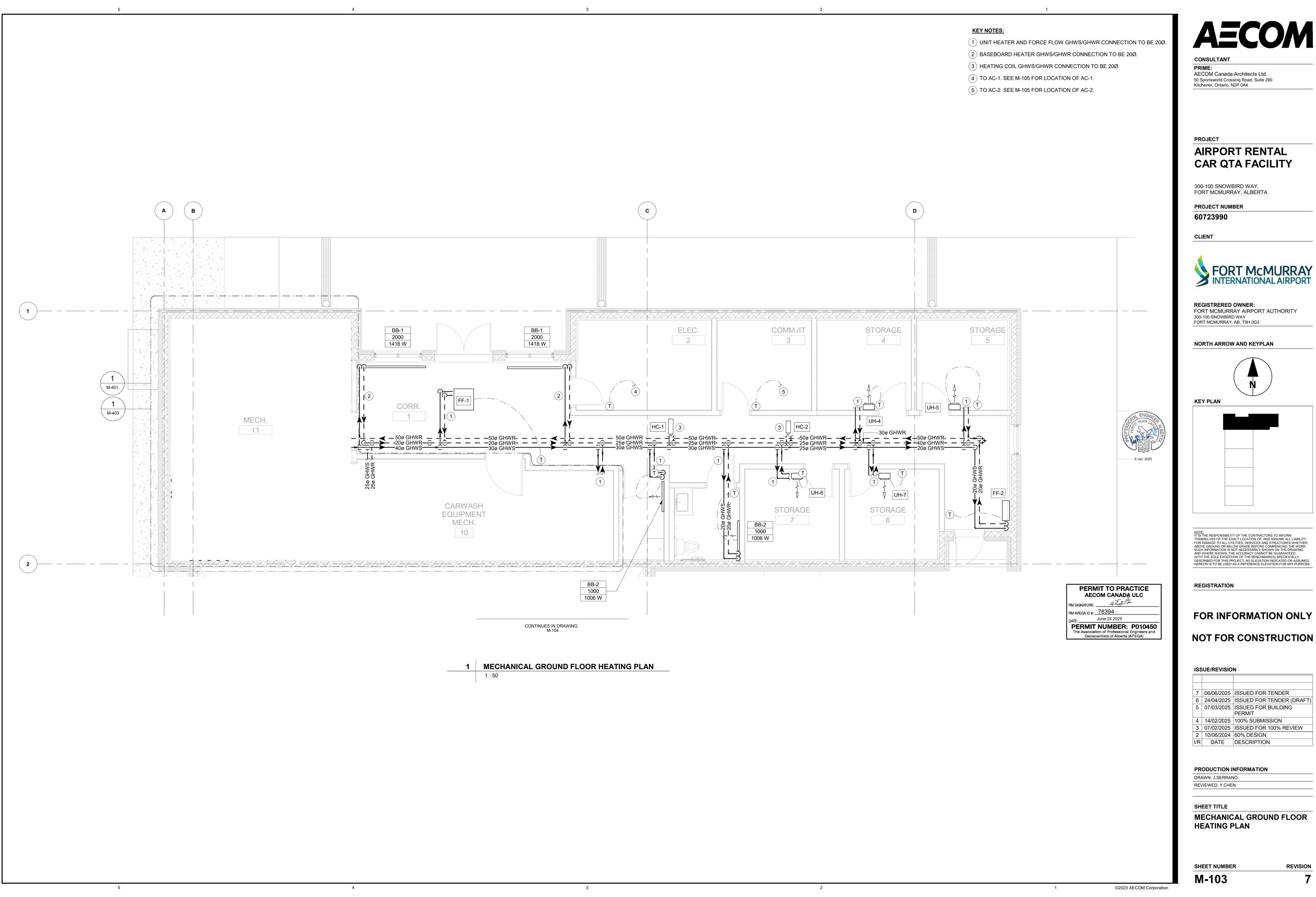
SHEET TITLE

MECHANICAL GROUND FLOOR PLUMBING PLAN

SHEET NUMBER

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REVISION





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Kitchener, Ontario, N2P 0A4

PROJECT

AIRPORT RENTAL **CAR QTA FACILITY**

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

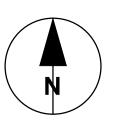
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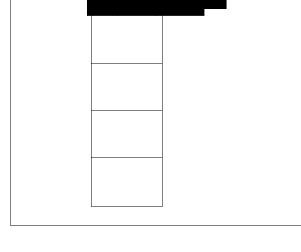


FORT MCMURRAY AIRPORT AUTHORITY 300-100 SNOWBIRD WAY FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN



KEY PLAN



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DRAWN: J.SERRANO

REVIEWED: Y.CHEN

SHEET TITLE

MECHANICAL GROUND FLOOR **HEATING PLAN**

SHEET NUMBER

REVISION

GENERAL NOTES:

- 1. QUALIFIED CONTRACTORS SHALL HAVE MINIMUM 5 SIMILAR PROJECTS FOR PAST EXPERIENCE.
- 2. IN-SLAB HEATING CONTRACTOR TO PROVIDE CONDUIT FOR ICE/SNOW DETECTORS CABLE AND IN-SLAB TEMPERATURE SENSOR CABLE IN CONCRETE SLAB.
- 3. PROVIDE SLEEVE PROTECTION WHEN SNOW MELT TUBING THROUGH THE EXTERIOR WALL BELOW GRADE FROM INTERIOR SLAB TO THE EXTERIOR SLAB.THE SLEEVE SHALL BE EXTEND 150mm ON EITHER

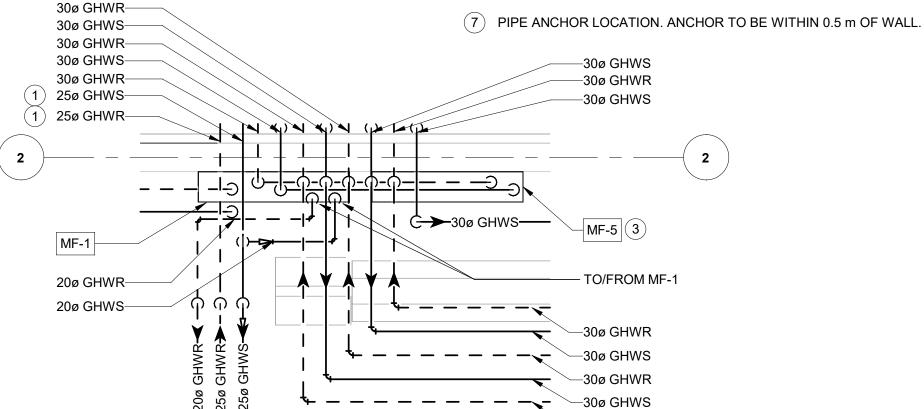
KEY NOTES:

- 25Ø GHWS/GHWR FROM MECHANICAL ROOM TO SERVE SNOWMELT DRIVE WAY.
- PROVIDE SNOWMELT AREA IN EXIT. COORDINATE WITH ARCHITECTURAL DRAWINGS AND REFER TO STRUCTURAL DRAWING S-121 FOR INSULATION AND CONCRETE DETAILS OF THE SNOWMELT
- PROVIDE IN-SLAB HEATING TO EACH WASHBAY AREA. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS. REFER TO IN-SLAB HEATING SUPPLIER FOR HEATING LOOP LAYOUT.

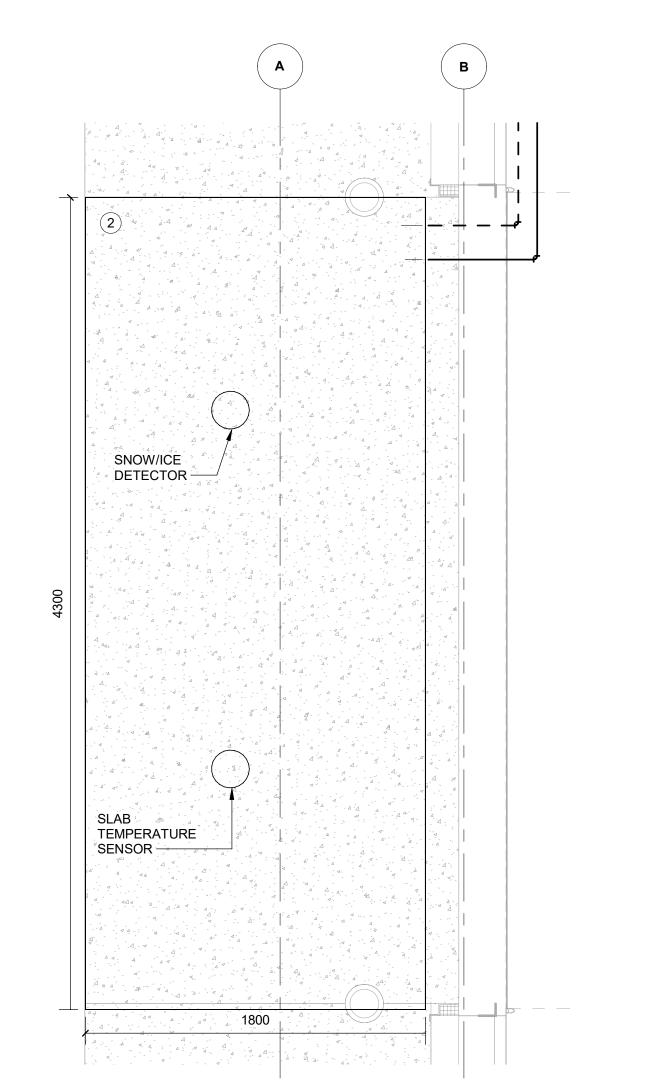
INSULATION. PIPES INCLUDE NG, TW, DCW, GHW.

−30ø GHWR

- (4) MANIFOLDS TO BE MOUNTED 2.4m UP THE WALL IN THE WASHBAY TO KEEP THE MANIFOLDS PROTECTED FROM WATER.
- 5 FOR ALL PIPES PENETRATING THE WASHBAY WALLS, PROVIDE A SCH.40 STEEL SLEEVE WITH AN INSIDE DIAMETER (ID) LARGER THAN THE OUTSIDE DIAMETER (OD) OF THE PIPE SIZE INCLÚDING
- (6) PIPE OFFSETS (U-BENDS, L-BENDS AND Z-BENDS) TO ALLOW FOR PIPE THERMAL EXPANSION. THE DIMENSIONS SHOWN ARE THE MINIMUM
- REQUIRED OFFSET LENGTH.



2 MECHANICAL GROUND FLOOR HEATING PLAN - ENLARGED M-104



MECHANICAL GROUND FLOOR HEATING PLAN - SNOWMELT M-104

AECOM

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PROJECT

AIRPORT RENTAL **CAR QTA FACILITY**

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

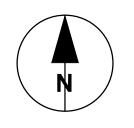
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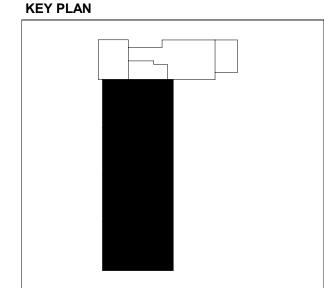
CLIENT



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

NORTH ARROW AND KEYPLAN





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I/R DATE DESCRIPTION

PRODUCTION INFORMATION DRAWN: J.SERRANO

REVIEWED: Y.CHEN

SHEET TITLE MECHANICAL GROUND FLOOR **HEATING PLAN**

SHEET NUMBER

REVISION

M-104

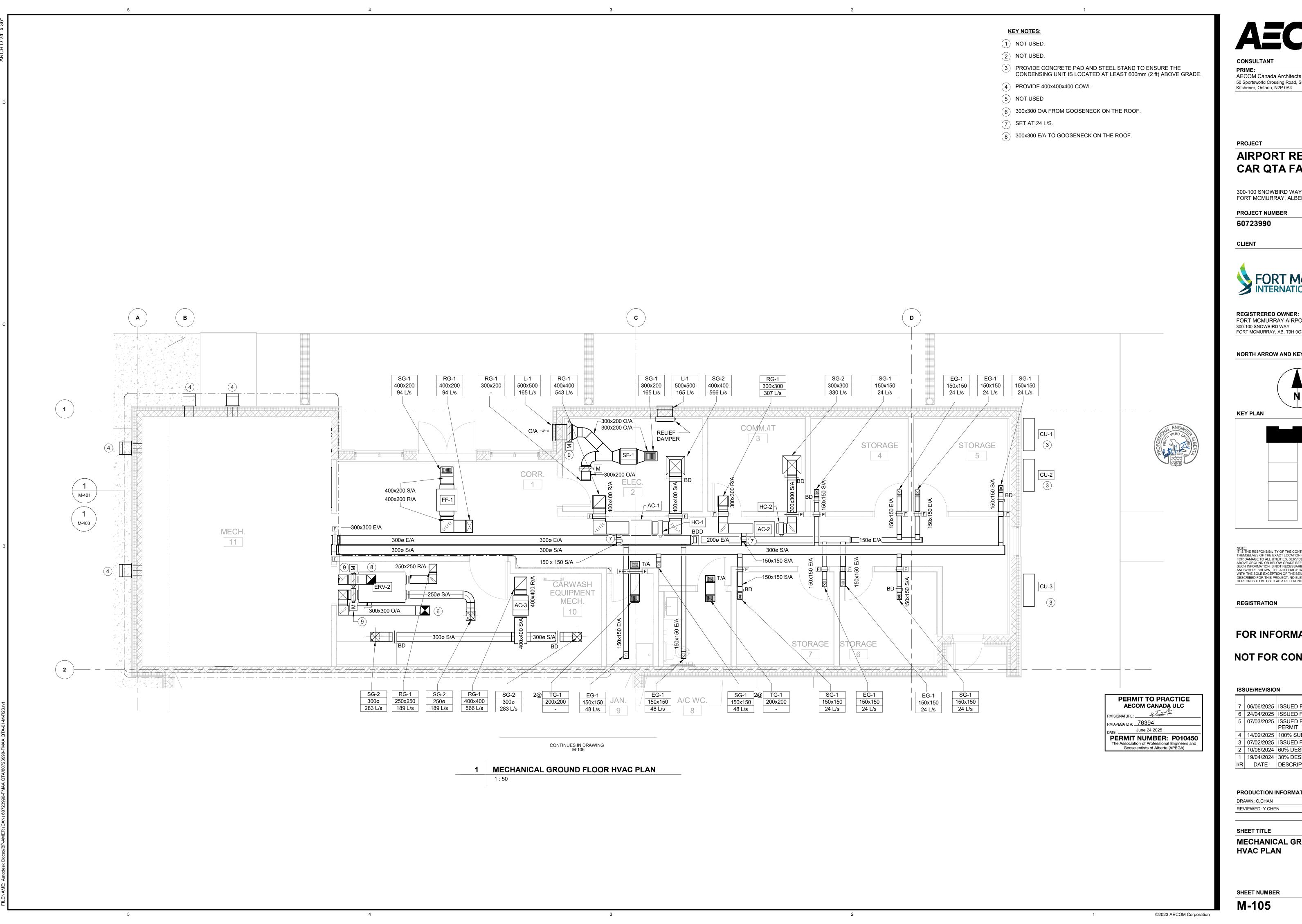
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June 24 2025 PERMIT NUMBER: P010450 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

RM SIGNATURE: ____ RM APEGA ID #: 76394



CONSULTANT

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PROJECT

AIRPORT RENTAL **CAR QTA FACILITY**

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

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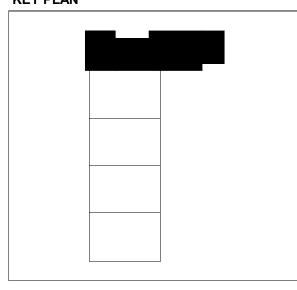


FORT MCMURRAY AIRPORT AUTHORITY 300-100 SNOWBIRD WAY FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN



KEY PLAN



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PRODUCTION INFORMATION

DRAWN: C.CHAN REVIEWED: Y.CHEN

SHEET TITLE

MECHANICAL GROUND FLOOR **HVAC PLAN**

SHEET NUMBER

M-105

KEY NOTES:

- 1 100Ø COMBUSTION AIR INTAKE HOOD C/W BIRDSCREEN FROM THE WALL. REFER TO MANUFACTER'S INSTALLATION INSTRUCTION FOR
- (2) 100Ø VENT THROUGH ROOF. REFER TO MANUFACTERS INSTALLATION INSTRUCTIONS FOR DETAILS.
- (3) THE HEATER IS SUSPENDED AT 45° ANGLE. PROVIDE MIN. 50mm INSULATION WITH ALUMINUM JACKET ON THE COMBUSTION AIR DUCTS TO THE TUBE HEATERS (IH).
- (4) THERMOSTAT, CO SENSOR, OCCUPANCY SENSOR, HUMIDITY SENSOR AND NOX SENSOR ALL TO BE INSTALLED WITHIN A WATER PROOF ENCLOSURE. ALL OF CONTROLS IN WASHBAYS RATED FOR NEMA-4X.
- (5) CEILING FAN COMPLETE WITH WALL MOUNTED SPEED CONTROLLER. CONTRACTOR TO PROVIDE A NEMA 4X RATED BOX AND INSTALL THE CEILING FAN WALL MOUNTED CONTROLLER INSIDE.
- (6) FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MOUNTING CEILING FAN TO C-CHANNEL (SEE DRAWING S-122 FOR C-CHANNEL LOCATION). AN ADDITIONAL JUNCTION BOX IS REQUIRED THAT IS NOT PROVIDED WITH CEILING FAN. CEILING FAN TO BE INSTALLED IN A GFCI PROTECTED BRANCH CIRCUIT.
- (7) VACUUM TO BE SUPPLIED AND INSTALLED BY CAR WASH EQUIPMENT SUPPLIER.
- (8) INSULATE DUCTWORK WITH 50mm INSULATION BETWEEN MOTORIZED DAMPER AND ROOF MOUNTED EQUIPMENT. MOTORIZED DAMPER TO BE INSULATED DAMPER (TAMCO 9000 OR EQUIVALENT).

PERMIT TO PRACTICE

AECOM CANADA ULC

June 24 2025 PERMIT NUMBER: P010450

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

RM SIGNATURE: _

RM APEGA ID #: 76394



CONSULTANT

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

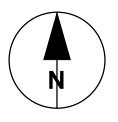
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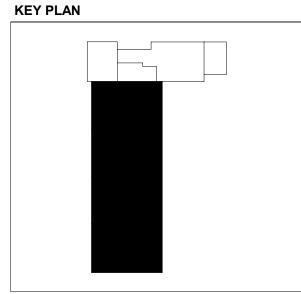
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REGISTRERED OWNER: FORT MCMURRAY AIRPORT AUTHORITY 300-100 SNOWBIRD WAY FORT MCMURRAY, AB, T9H 0G3

NORTH ARROW AND KEYPLAN





NOTE:
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2 10/06/2024 60% DESIGN 1 19/04/2024 30% DESIGN

I/R DATE DESCRIPTION

PRODUCTION INFORMATION DRAWN: C.CHAN

REVIEWED: Y.CHEN

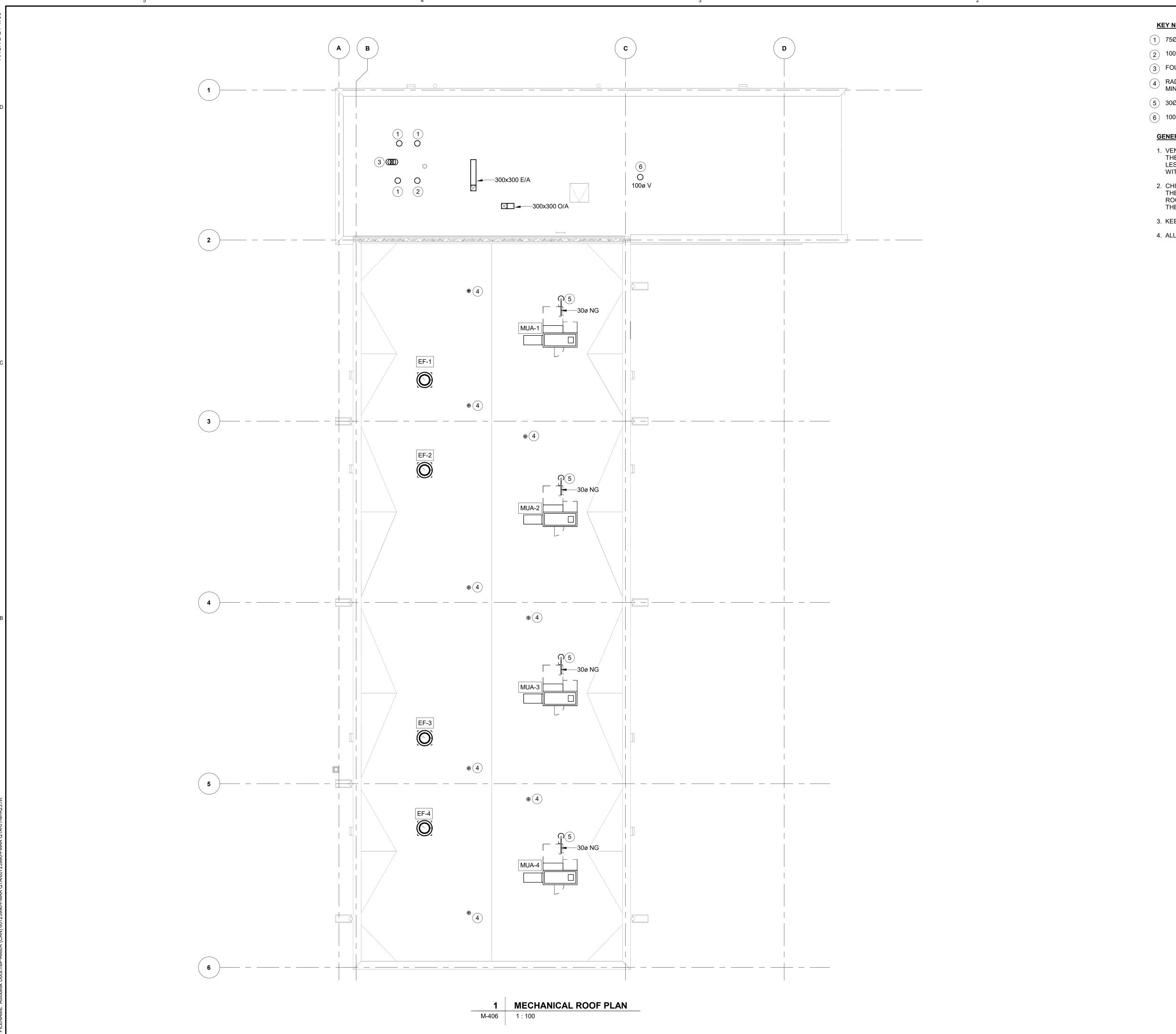
SHEET TITLE

MECHANICAL GROUND FLOOR **HVAC PLAN**

SHEET NUMBER

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KEY NOTES:

- (1) 75Ø CONCENTRIC VENT FROM BELOW.
- 2 100Ø CONCENTRIC VENT FROM BELOW.
- (3) FOUR 75Ø VENT PIPES IN A 2 BY 2 ARRAY.
- RADIANT TUBE HEATER EXHAUST FROM BELOW. EXTEND VENT MINIMUM 600mm ABOVE ROOF LEVEL. INCLUDE RAIN CAP.
- (5) 30Ø NG FROM BELOW. REFER TO M-102 FOR CONTINUATION.
- (6) 100Ø PLUMBING VENT.

GENERAL NOTES:

- 1. VENT TERMINATION SHALL EXTEND NOT LESS THAN 600mm ABOVE THE HIGHEST POINT WHERE IT PASSES THROUGH THE ROOF AND NOT LESS THAN 600mm HIGHER THAN ANY PORTION OF THE BUILDING WITHIN A HORIZONTAL DISTANCE OF 3 METERS.
- 2. CHIMNEY TERMINATION SHALL EXTEND NOT LESS THAN 900mm ABOVE THE HIGHEST POINT OF THE ROOF WHERE IT PASSES THROUGH THE ROOF AND NOT LESS THAN 600mm HIGHER THAN ANY PORTION OF THE BUILDING WITHIN A HORIZONTAL DISTANCE OF 3 METERS.

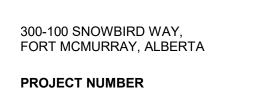
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- 3. KEEP CONCENTRIC VENT SEPARATE MIN. 1.0 METERS.
- 4. ALL GAS PIPE AND VENT SHALL MEET CODE RQUIREMENTS.



AIRPORT RENTAL

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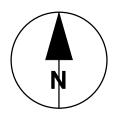
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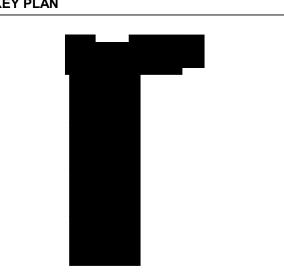


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NORTH ARROW AND KEYPLAN



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I/R DATE DESCRIPTION

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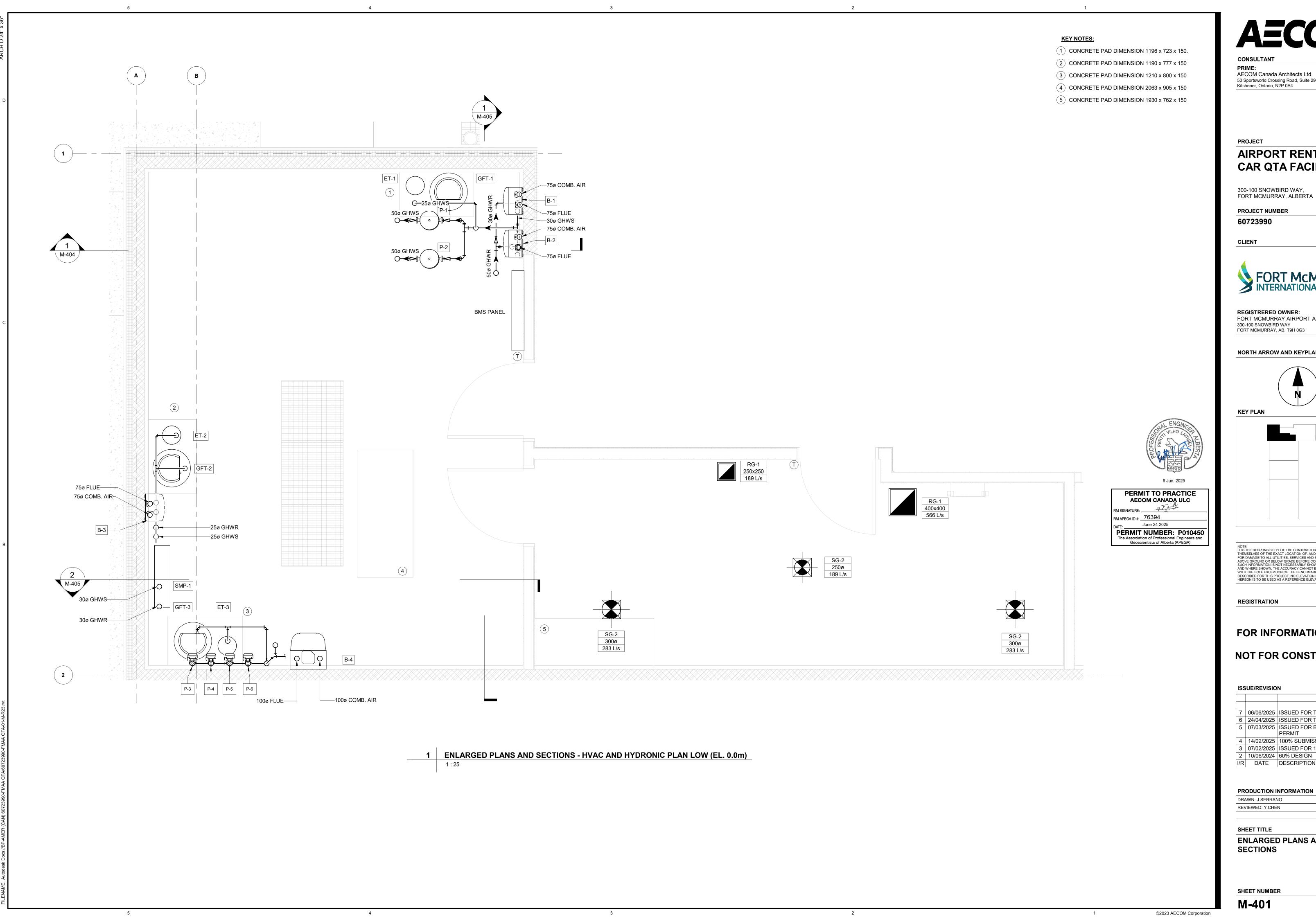
PRODUCTION INFORMATION

REVIEWED: Y.CHEN

SHEET TITLE MECHANICAL ROOF PLAN

SHEET NUMBER M-107

REVISION



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AIRPORT RENTAL CAR QTA FACILITY

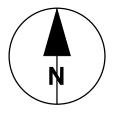
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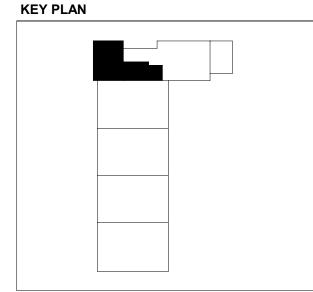
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NORTH ARROW AND KEYPLAN





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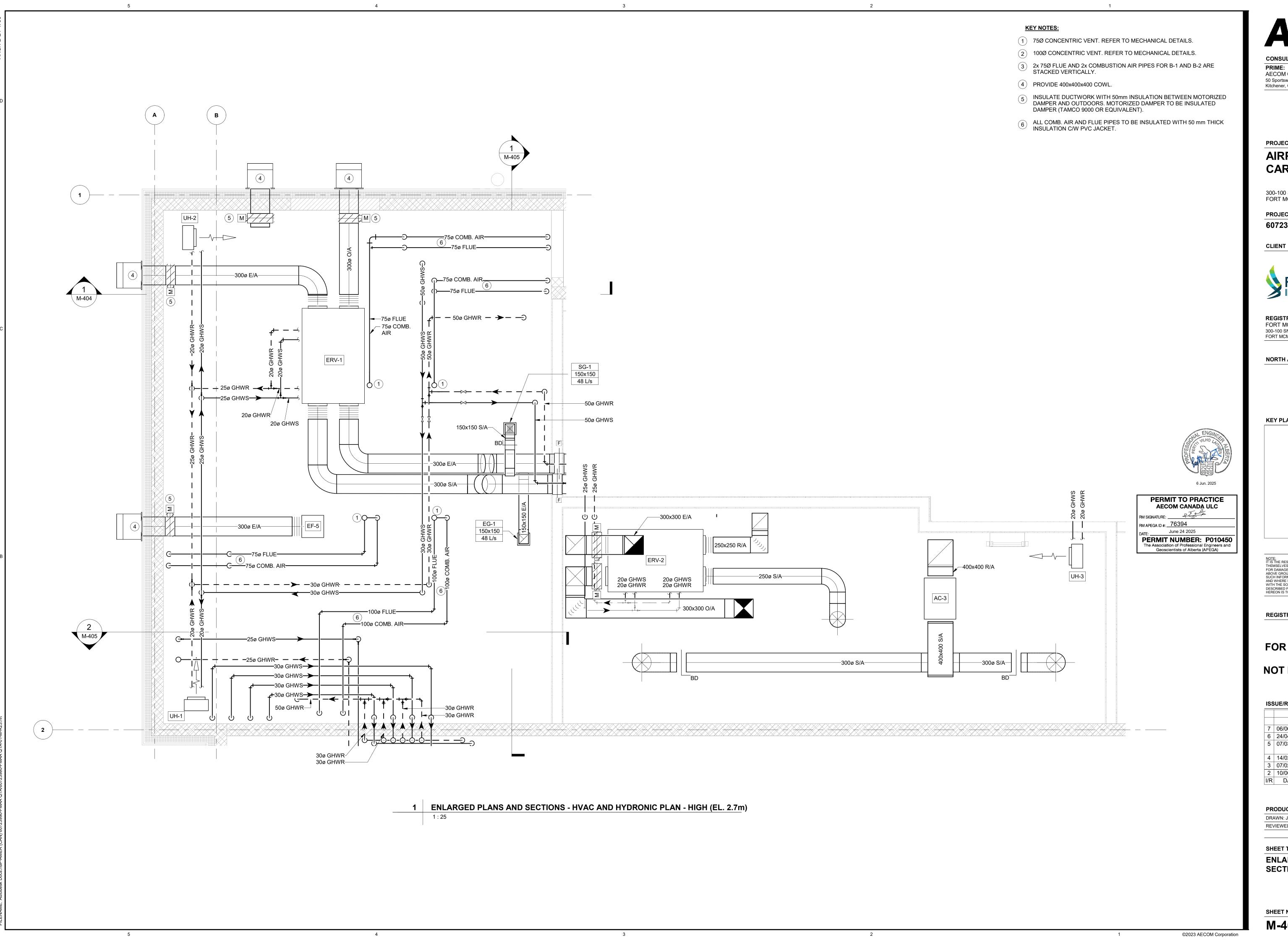
DRAWN: J.SERRANO

REVIEWED: Y.CHEN

SHEET TITLE

ENLARGED PLANS AND SECTIONS

SHEET NUMBER



CONSULTANT

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PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

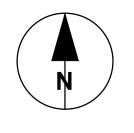
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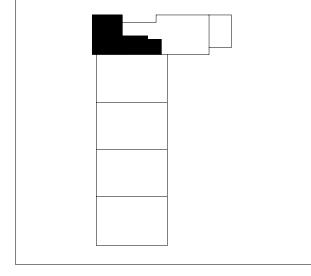


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NORTH ARROW AND KEYPLAN



KEY PLAN



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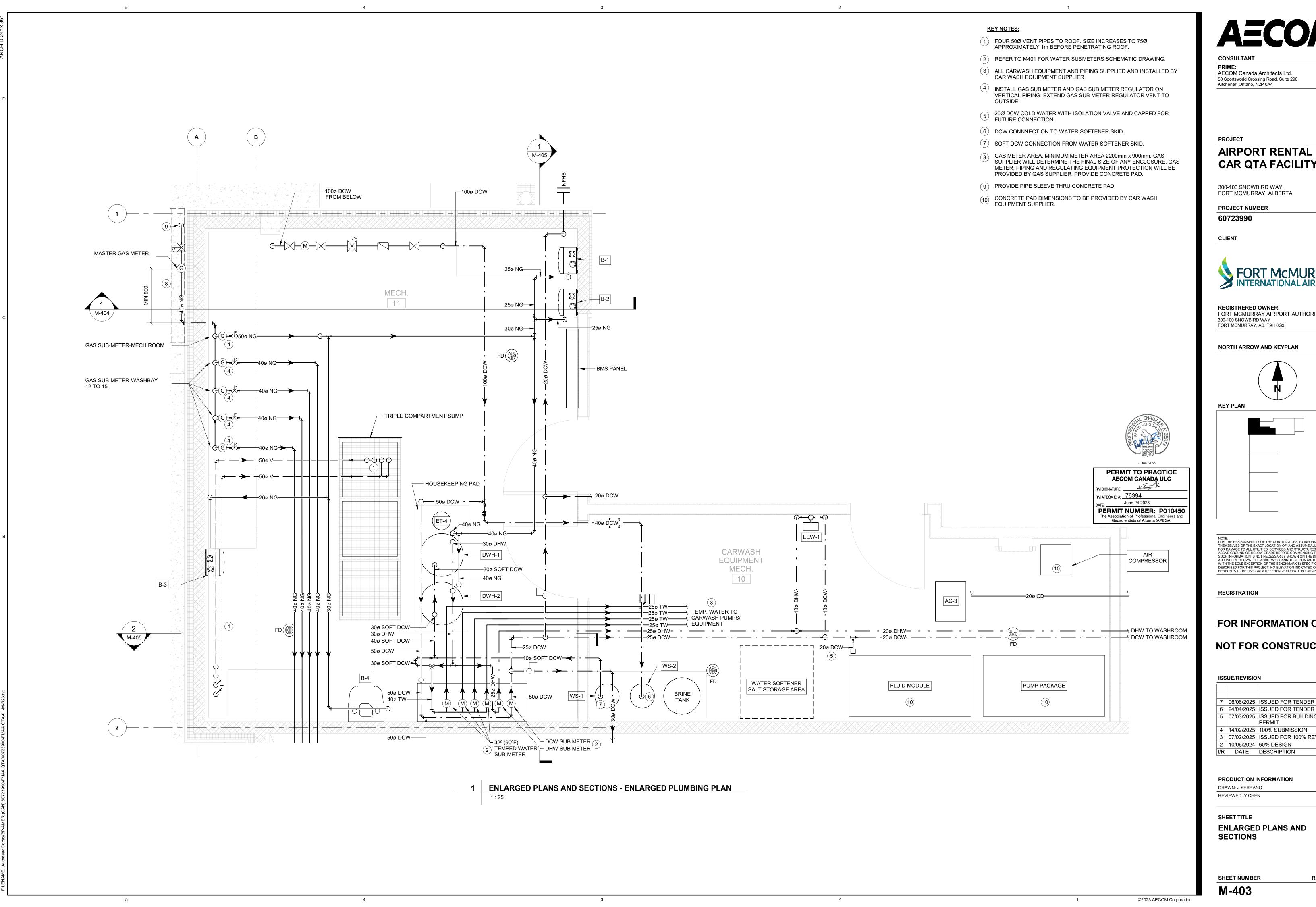
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PROJECT

AIRPORT RENTAL **CAR QTA FACILITY**

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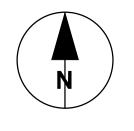
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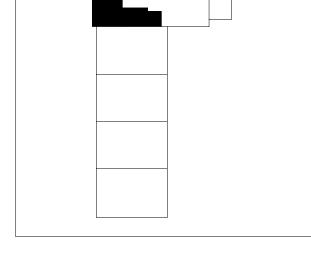


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PROJECT

AIRPORT RENTAL **CAR QTA FACILITY**

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

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

NORTH ARROW AND KEYPLAN

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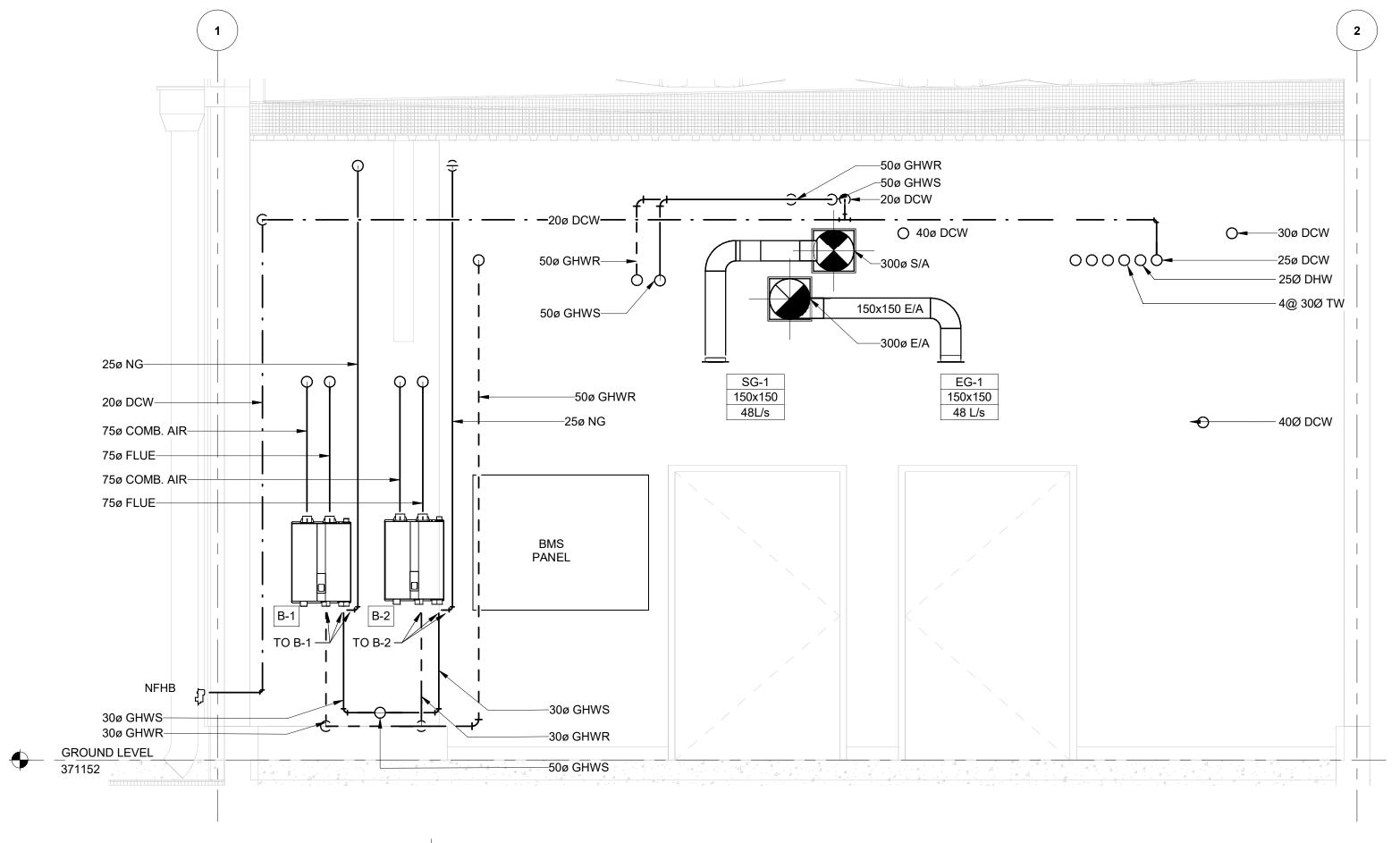
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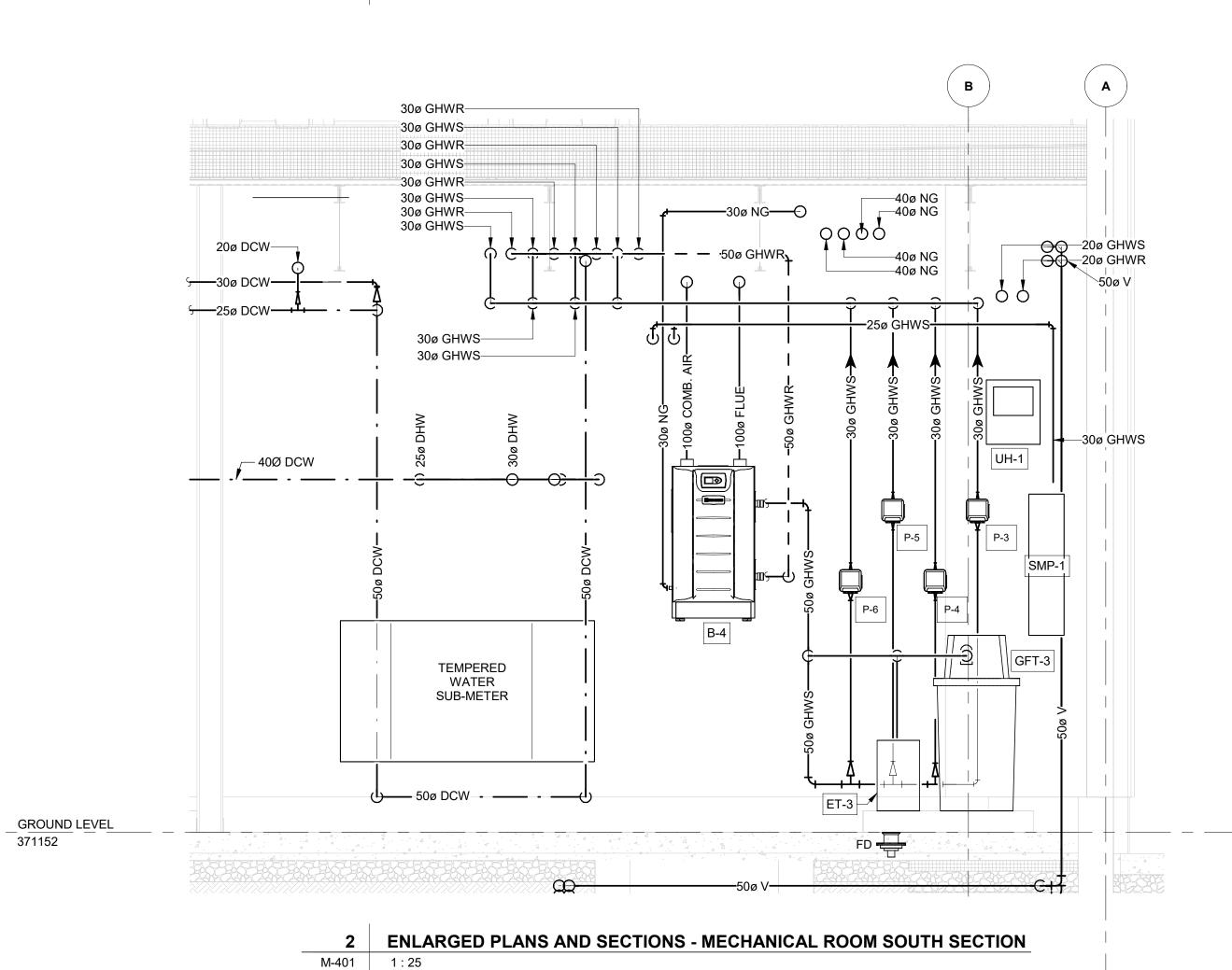
ENLARGED PLANS AND SECTIONS

SHEET NUMBER M-404

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1 ENLARGED PLANS AND SECTIONS - MECHANICAL ROOM EAST SECTION M-401 1 : 25



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PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

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

NORTH ARROW AND KEYPLAN

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6 Jun. 2025

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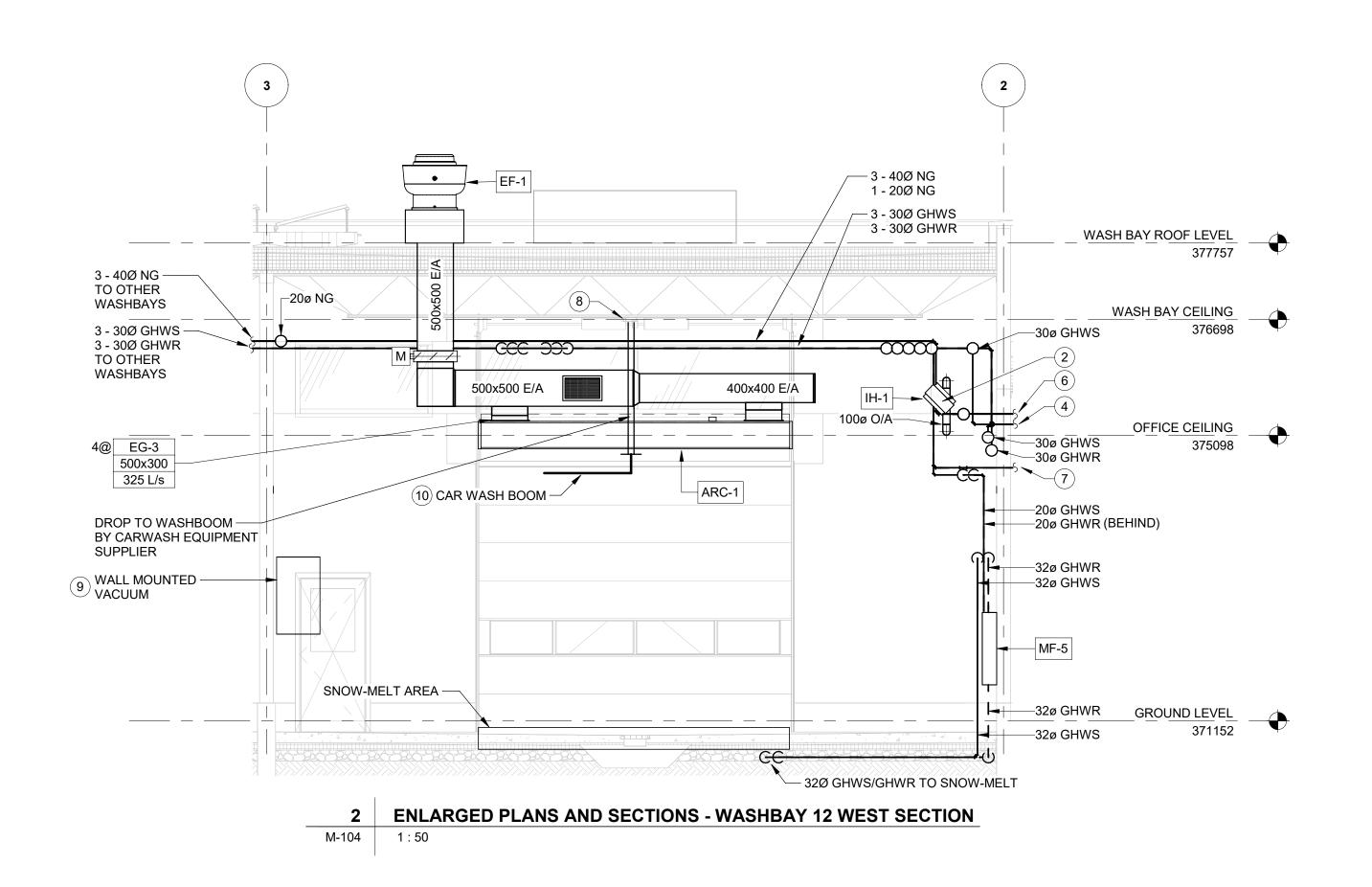
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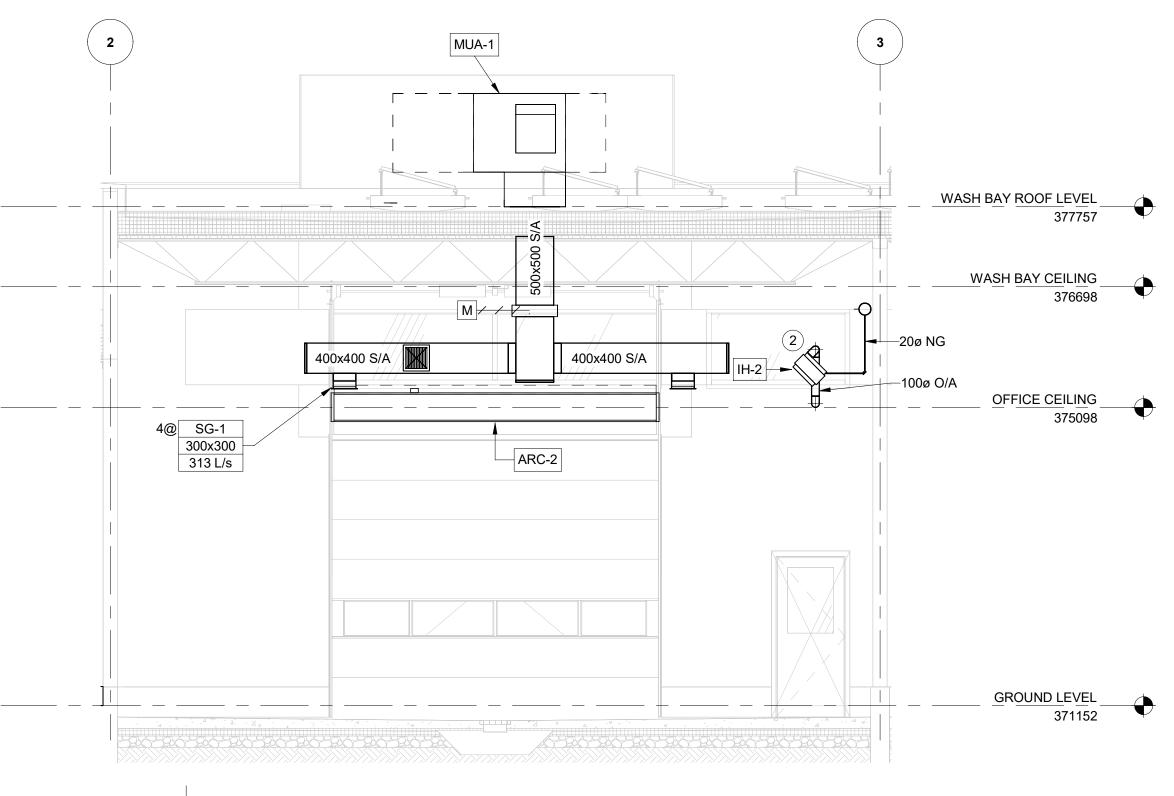
ENLARGED PLANS AND SECTIONS

SHEET NUMBER

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M-405





3 ENLARGED PLANS AND SECTIONS - WASHBAY 12 EAST SECTION
M-104 1:50

KEY NOTES:

- 1 100Ø COMBUSTION AIR INTAKE HOOD C/W BIRDSCREEN FROM THE WALL. REFER TO MANUFACTER'S INSTALLATION INSTRUCTION FOR DETAILS.
- THE HEATER IS SUSPENDED AT 45° ANGLE. PROVIDE MIN. 50mm INSULATION WITH ALUMINUM JACKET ON THE COMBUSTION AIR DUCTS TO THE TUBE HEATERS (IH).
- 3) 30Ø DCW FROM MECHANICAL ROOM TO SERVE EACH WASH BAY HOSE
- 4 30Ø GHWS AND 4 30Ø GHWR FROM MECHANICAL ROOM TO SERVE IN-SLAB HEATING FOR EACH WASH BAY.
- 3 30Ø GHWS AND 3 30Ø GHWR CONTINUING TO WASHBAY 13, 14
- 6 4 40Ø NATURAL GAS FROM MECHANICAL ROOM TO SERVE EACH WASH BAY'S INFRARED HEATERS (IH) AND MUA.
- 7 2 25Ø GHWR AND 1 25Ø GHWS FROM MECHANICAL ROOM TO SERVE DRIVEWAY SNOW MELT IN EACH WASHBAY. HYDRONIC SYSTEM FOR THIS SYSTEM IS SET UP AS A REVERSE RETURN SYSTEM.
- 8 REFER TO STRUCTURAL DRAWING S-122 FOR C-CHANNEL SUPPORTS FOR CAR WASH PIPING AND WASHBOOM. PIPING FOR WASHBOOM SUPPLIED AND INSTALLED IN CHANNEL BY CARWASH EQUIPMENT SUPPLIED.
- 9 VACUUM TO BE SUPPLIED AND INSTALLED BY CAR WASH EQUIPMENT SUPPLIER.
- PIPING FOR WASH BOOM TO BE SUPPLIED AND INSTALLED BY CARWASH EQUIPMENT SUPPLIER. FINAL HEIGHT AND LOCATION TO BE COORDINATED BY CAR WASH SUPPLIER.

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PRIME:
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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

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

NORTH ARROW AND KEYPLAN

KEY PLAN



6 Jun. 2

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RM APEGA ID #: 76394

DATE:

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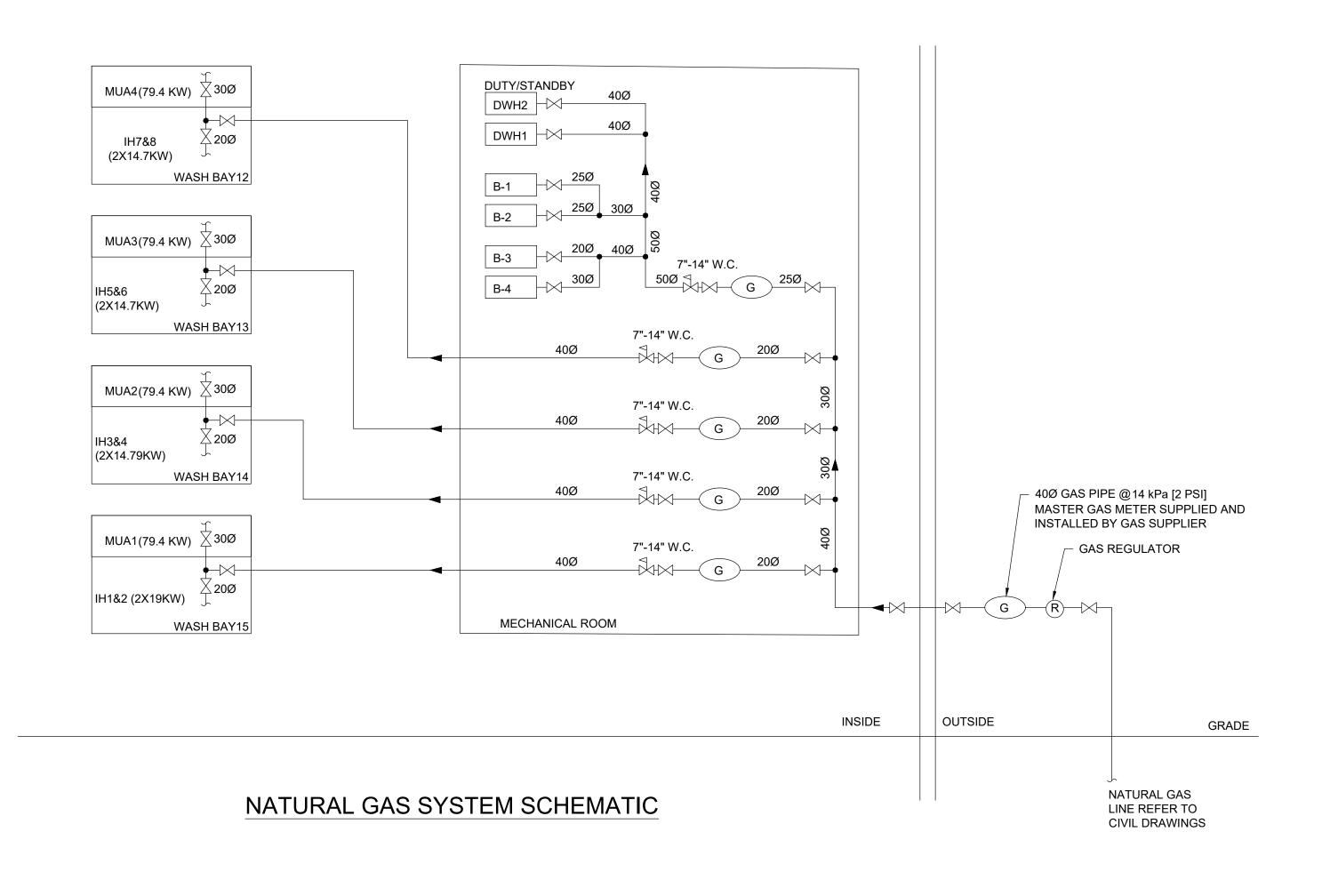
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REVISION

M-406

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7



GAS LOAD TABLE 1. CONFIRM GAS METER SPACING WITH GAS SERVICE PROVIDER PRIOR TO INSTALLATION. 2. PROVIDE ONE (1) GAS METER FOR EACH TENANT & ONE (1) GAS METER FOR COMMON AREAS. WASH BAY 12 79.4 KW [271 MBH] 14.7 KW [50 MBH] 14.7 KW [50 MBH] MUA-1 IH-1 IH-2 108.8 KW [371 MBH] SUB TOTAL WASH BAY 13 MUA-2 IH-3 IH-4 79.4 KW [271 MBH] 14.7 KW [50 MBH] 14.7 KW [50 MBH] SUB TOTAL 108.8 KW [371 MBH] WASH BAY 14 79.4 KW [271 MBH] 14.7 KW [50 MBH] 14.7 KW [50 MBH] MUA-3 IH-5 IH-6 SUB TOTAL 108.8 KW [371 MBH] WASH BAY 15 79.4 KW [271 MBH] 19 KW [65 MBH] 19 KW [65 MBH] MUA-4 IH-7 IH-8 SUB TOTAL 117.4 KW [401 MBH] COMMON AREA 45.4 KW [155 MBH] 45.4 KW [155 MBH] 23.4 KW [80 MBH] 116.9 KW [399 MBH] B-4 DWH-1 146 KW [500 MBH] DUTY DWH-2 146 KW [500 MBH] STANDBY SUB TOTAL 377.1 KW [1289 MBH] **FUTURE** 46.8 KW [160 MBH] TOTAL 867.7 KW [2963 MBH]

20Ø DCW 25Ø DCW 40Ø DCW 50Ø DCW 20Ø DHW 25Ø DHW WASHROOMS HOSEBIBB ⊱⊢⊠− CAR WASH EQUIPMENT > WASH BAY15 ____ 30Ø DHW HOSEBIBB ⊱ ⊠ CAR WASH EQUIPMENT > WASH BAY14 ET-4 DWH-2 DWH-1 DUTY/STANDBY HOSEBIBB → → CAR WASH EQUIPMENT > WASH BAY13 -- \sim \sim \sim \sim \sim HOSEBIBB ⊱⊢⊠− TMV @ 1.0 L/S (16GPM) RPZ CAR WASH SET @ 32.2°C (90°F) EQUIPMENT > 40Ø DCW PACKAGED CAR WASH **EQUIPMENT BY CAR WASH** TO FLOOR EQUIPMENT SUPPLIER WASH BAY12 DOUBLE CHECK PRESSURE XNOXNO XNOXNO VALVE ASSEMBLY REDUCE VALVE (MAX 65PSI) SOFTENERS AND BRINE TANK PROVIDED BY CAR WASH EQUIPMENT SUPPLIER MECHANICAL ROOM GRADE

WATER SYSEM SCHEMATIC

AECOM

CONSULTANT

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MECHANICAL ENGINEER: Organization Name City, Province, A1A 1A1

PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

CLIENT



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

NORTH ARROW AND KEYPLAN

KEY PLAN



PERMIT TO PRACTICE AECOM CANADA ULC RM SIGNATURE: ____ RM APEGA ID #: 76394 June 24 2025 **PERMIT NUMBER: P010450** The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

NOTE:
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FOR DAMAGE TO ALL UTILITIES, SERVICES AND STRUCTURES WHETHER
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REGISTRATION

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ISSUE/REVISION

7	06/06/2025	ISSUED FOR TENDER
6	24/04/2025	ISSUED FOR TENDER (DRAFT)
5	07/03/2025	ISSUED FOR BUILDING PERMI
4	14/02/2025	100% SUBMISSION
3	07/02/2025	ISSUED FOR 100% REVIEW
2	10/06/2024	60% DESIGN
1	19/04/2024	30% DESIGN
I/R	DATE	DESCRIPTION

PRODUCTION INFORMATION

DRAWN: Y. CHEN REVIEWED: Y. CHEN

VERIFIED: SHEET TITLE

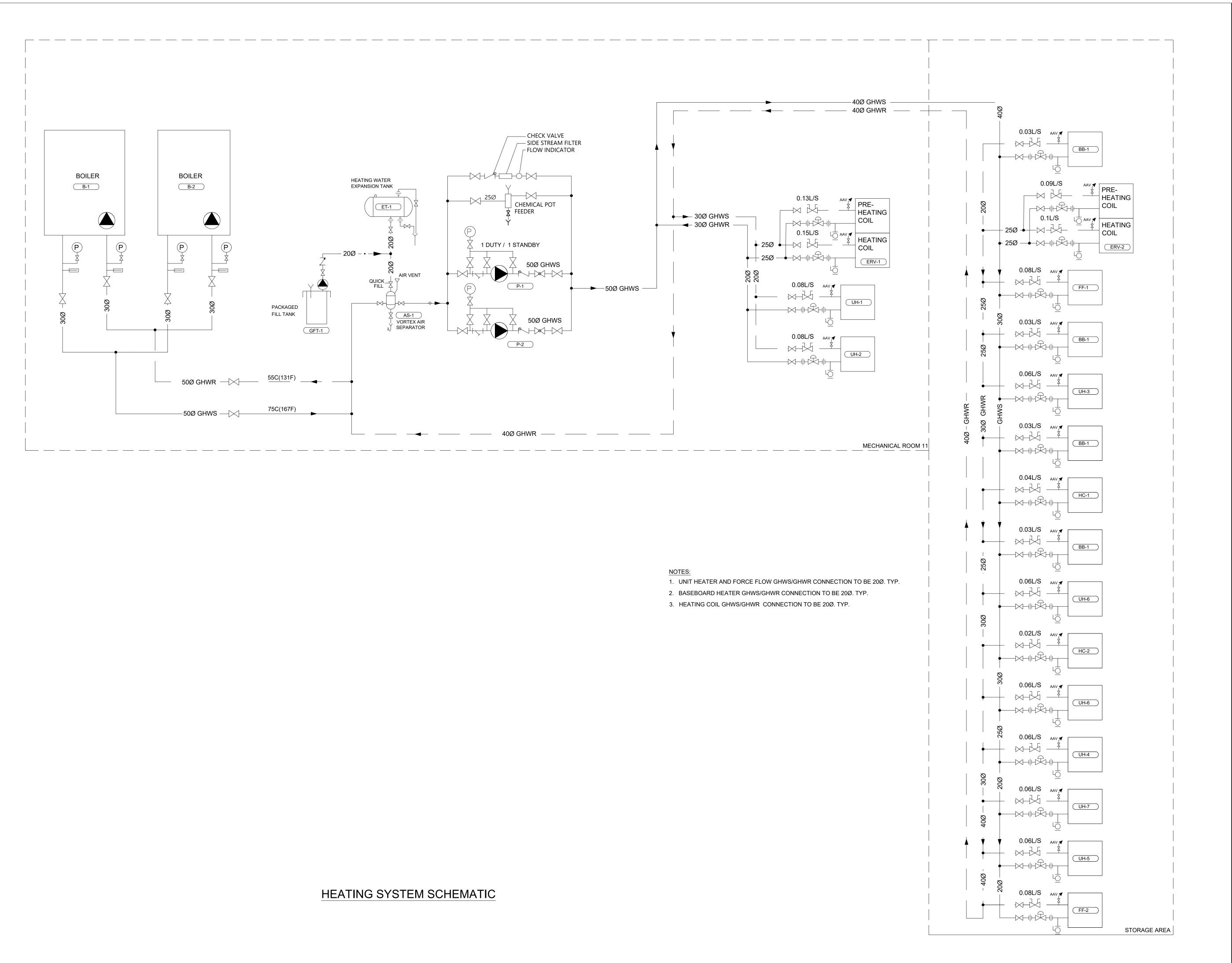
MECHANICAL SCHEMATICS GAS AND WATER SCHEMATIC

SHEET NUMBER

M-501

REVISION

100Ø DCW REFER TO CIVIL DRAWINGS



CONSULTANT

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

Organization Name

City, Province, A1A 1A1

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

KEY PLAN



6 Jun.

PERMIT TO PRACTICE
AECOM CANADA ULC

RM SIGNATURE:
RM APEGA ID #: 76394

DATE:
June 24 2025

PERMIT NUMBER: P010450

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3 07/02/2025 ISSUED FOR 100% REVIEW
2 10/06/2024 60% DESIGN
1 19/04/2024 30% DESIGN
I/R DATE DESCRIPTION

PRODUCTION INFORMATION

DRAWN: Y. CHEN
REVIEWED: C.TRISCHUK
VERIFIED:

SHEET TITLE

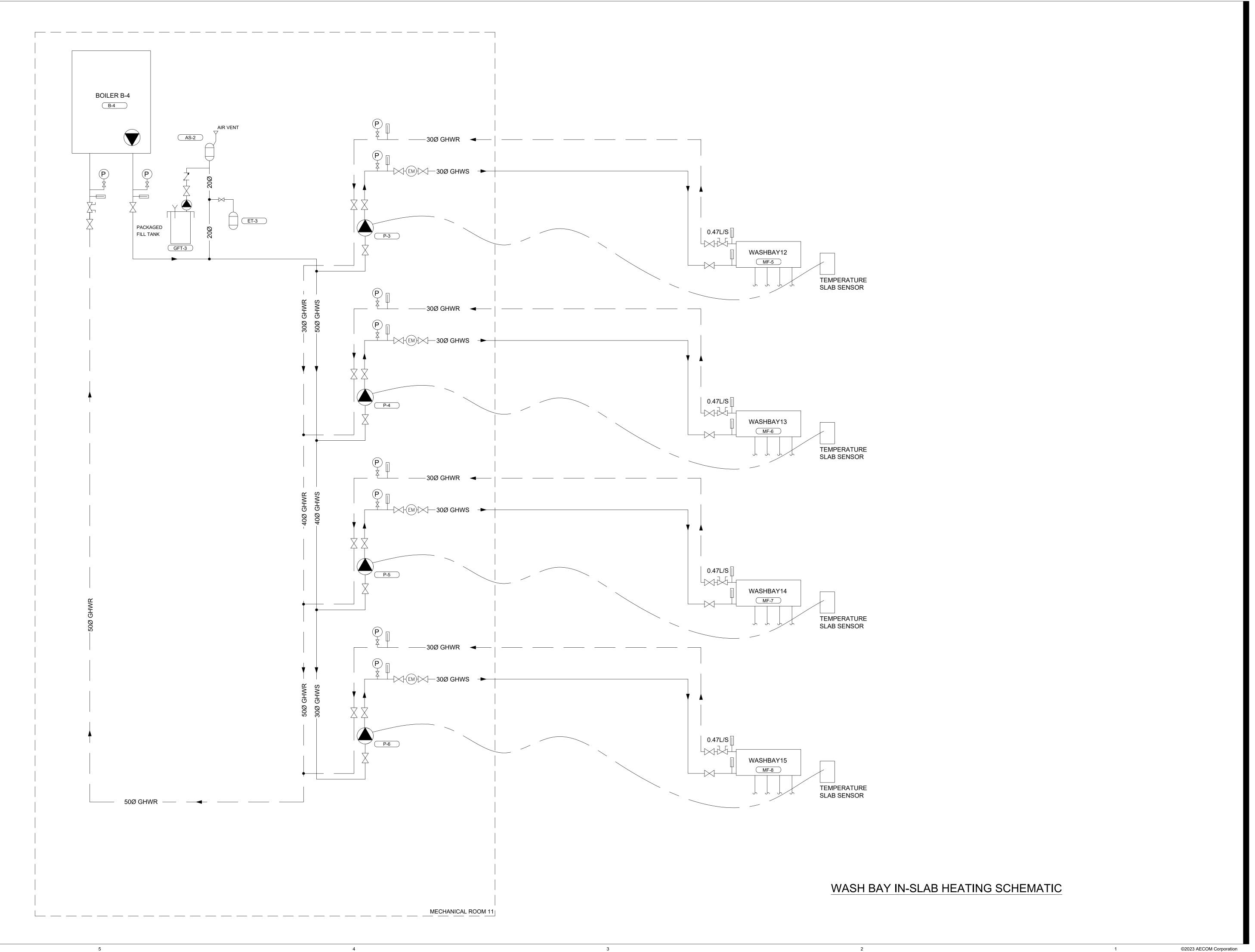
MECHANICAL SCHEMATICS HEATING SCHEMATIC

SHEET NUMBER

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M-502

7



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MECHANICAL ENGINEER:
Organization Name

City, Province, A1A 1A1

PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

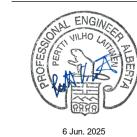
CLIENT



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

NORTH ARROW AND KEYPLAN

KEY PLAN



PERMIT TO PRACTICE
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RM SIGNATURE:

76394

DATE:

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I/R	DATE	DESCRIPTION

PRODUCTION INFORMATION

DRAWN: Y. CHEN
REVIEWED: C.TRISCHUK
VERIFIED:

SHEET TITLE

MECHANICAL SCHEMATICS
WASH BAY IN-SLAB HEATING
SCHEMATIC

SHEET NUMBER

REVISION

M-503

7

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Kitchener, Ontario, N2P 0A4

MECHANICAL ENGINEER: Organization Name City, Province, A1A 1A1

PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

CLIENT



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

NORTH ARROW AND KEYPLAN

KEY PLAN



PERMIT TO PRACTICE AECOM CANADA ULC RM SIGNATURE: _____ RM APEGA ID #: 76394 June 24 2025 PERMIT NUMBER: P010450

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PRODUCTION INFORMATION

I/R DATE DESCRIPTION

DRAWN: Y. CHEN

REVIEWED: C.TRISCHUK VERIFIED:

SHEET TITLE

MECHANICAL SCHEMATICS SNOW MELT HEATING SCHEMATIC

SHEET NUMBER M-504

REVISION

30° MAX. ++ ++ **/** /45° MAX. AIR FLOW HEATING COILS MAY BE DIRECTLY CONNECTED TO DUCT **HEATING COIL** AIR FLOW ACCESS DOORS

AIR VENT -BALL VALVE PLUG VALVE RETURN MAIN UNION (TYP) \blacksquare DRAIN VALVE C/W -CHAIN AND CAP

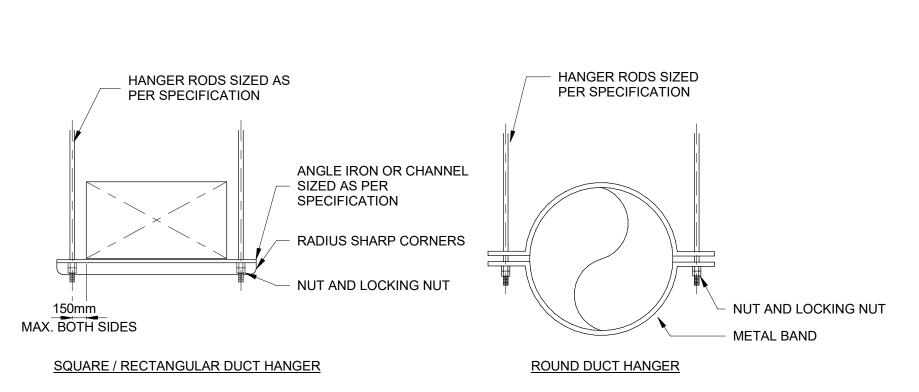
NOTES:

1. PROVIDE FIRE STOP SEAL BETWEEN VENT PIPE AND INSIDE OF SLEEVE. 2. SPUD BACK GRAVEL A MIN OF 750mm IN ALL DIRECTIONS. FLASH WITH 90# MINERAL FACED BASE FLASHING. STRIP WITH 3 LAYERS OF ROOFING FELT EMBEDDED IN HOT ASPHALT. GRAVEL TO MATCH

PIPE PENETRATION THROUGH ROOF DETAIL NTS

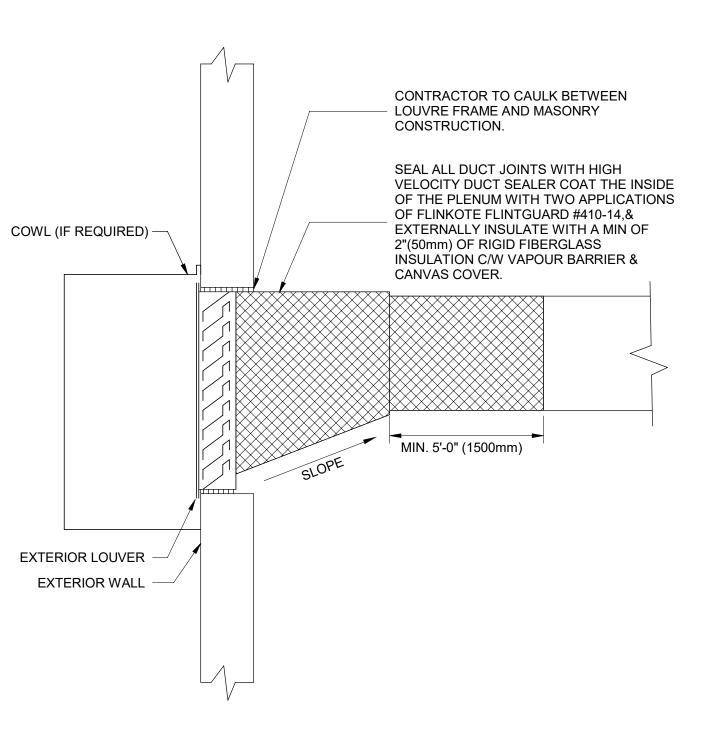
2 HEATING COIL INSTALLATION

3 TYPICAL UNIT HEATER



4 DUCTWORK SUPPORT AND HANGER

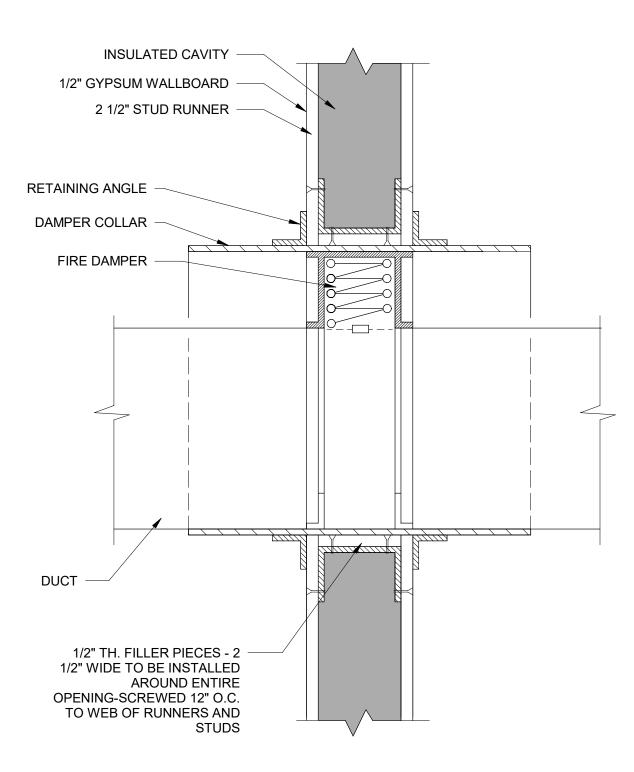
HANGERS MUST NOT DEFORM DUCT SHAPE. DO NOT EXCEED ALLOWABLE LOAD LIMITS.



5 EXTERIOR LOUVER CONNECTION

6 TYPE B FIRE DAMPER

 SUPPLY MAIN BALL VALVE



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PROJECT

AIRPORT RENTAL **CAR QTA FACILITY**

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

CLIENT



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

NORTH ARROW AND KEYPLAN

KEY PLAN



PERMIT TO PRACTICE AECOM CANADA ULC RM APEGA ID #: 76394 June 24 2025 **PERMIT NUMBER: P010450** The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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4 | 14/02/2025 | 100% SUBMISSION

3 07/02/2025 ISSUED FOR 100% REVIEW 2 10/06/2024 60% DESIGN I/R DATE DESCRIPTION

PRODUCTION INFORMATION

DRAWN: J.SERRANO

REVIEWED: Y.CHEN

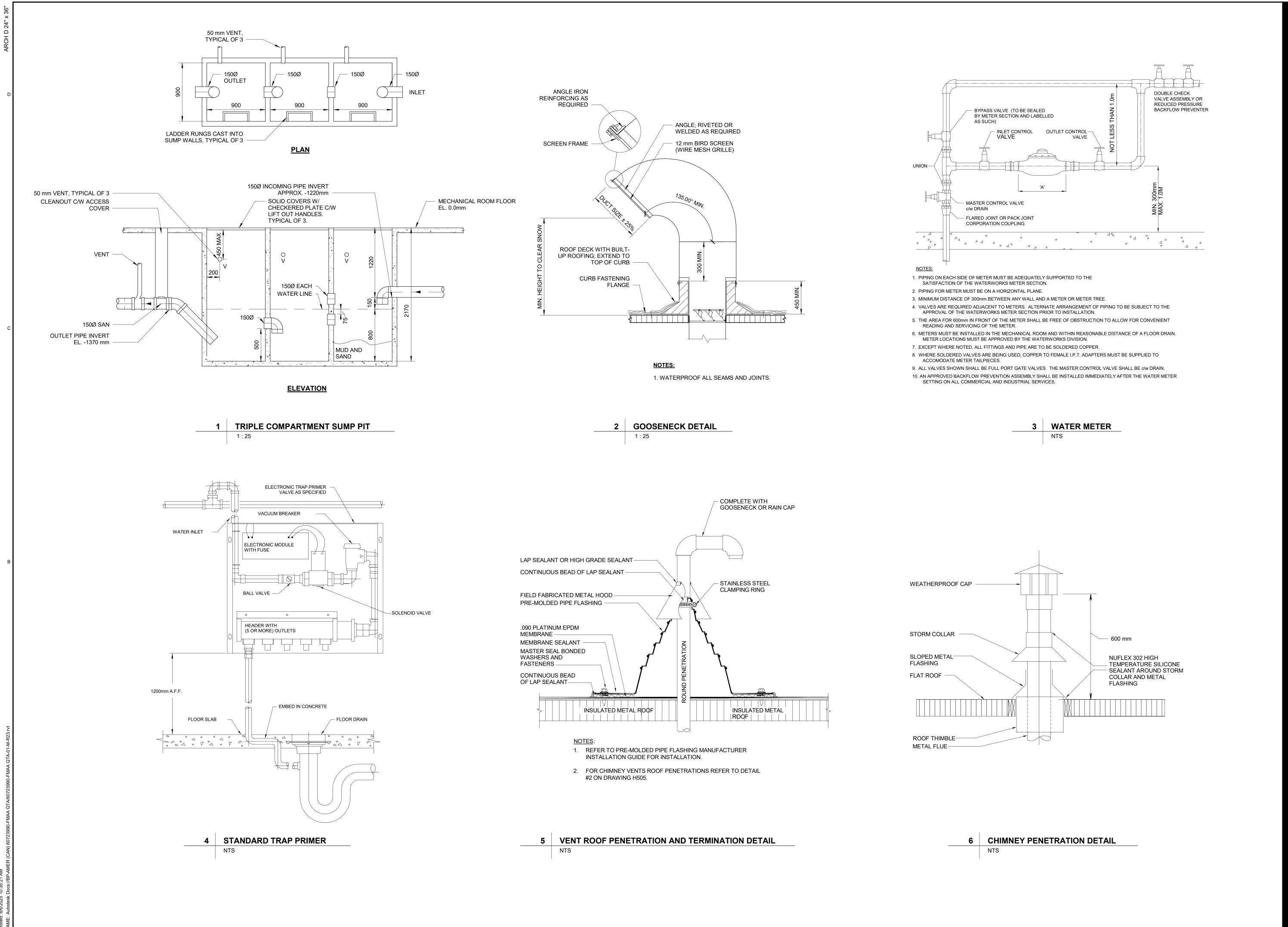
SHEET TITLE

DETAILS 1 OF 3

SHEET NUMBER

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PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

CLIENT



REGISTRERED OWNER: FORT MCMURRAY AIRPORT AUTHORITY 300-100 SNOWBIRD WAY

NORTH ARROW AND KEYPLAN

FORT MCMURRAY, AB, T9H 0G3

KEY PLAN



6 Jun. 202

PERMIT TO PRACTICE AECOM CANADA ULC

RM SIGNATURE:

RM APEGA ID #:

76394

June 24 2025

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PRODUCTION INFORMATION

DRAWN: J.SERRANO
REVIEWED: Y.CHEN

SHEET TITLE

DETAILS 2 OF 3

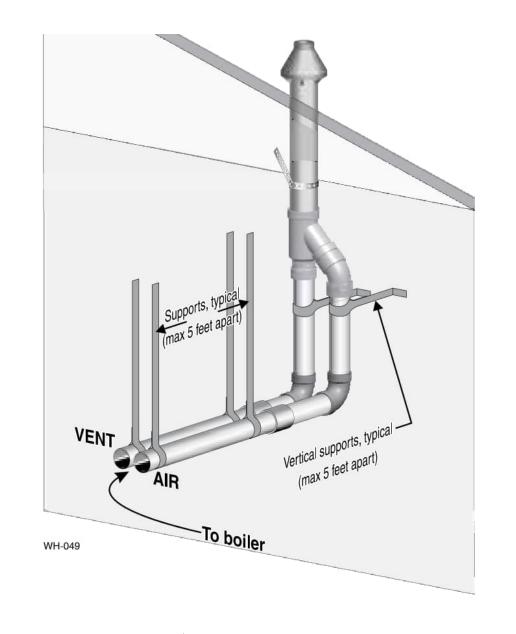
SHEET NUMBER

M-602

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2 CONCENTRIC VENT

NTS

LISTED CAP -MIN. 610mm HIGHER THAN ANY PORTION 3 METERS OF A BUILDING WITHIN A HORIZ. DISTANCE OF 3m THIMBLE/FLASHING TO LOCAL CODE DOUBLE WALL TYPE B-VENT - $<= 50 \text{ kW} = 100\emptyset$ > 50 kW = 125Ø SINGLE WALL TO B-**VENT ADAPTOR** SINGLE WALL -VENT CONNECTOR: MIN. 24 SGS

3 INFRARED HEATER VENT DETAIL

NTS

1 ROOF CURB

WEATHER-PROOF AROUND ANGLE FRAME w/ CAULKING & PAINT MOTORIZED DAMPER 1.6mm SHEET METAL HOOD 2" ACCOUSTIC INSULATION (NOT REQUIRED ON KITCHEN & FUME EXHAUST SYSTEMS) ACCESS DOOR AS PER SPECIFICATION SLOPE DUCTWORK TO OUTSIDE 38x38x3 ANGLE SUPPORT FASTENED TO WALL / STRUCTURAL FRAMING AND HOOD w/ SCREWS. SUPPORT CONTINUOUS WIDTH AND LENGTH OF HOOD SLOPE DUCTWORK TO OUTSIDE **OUTSIDE WALL** BIRDSCREEN AS SPECIFIED REFER TO DWG'S FOR NOMINAL HOOD SIZE PROVIDE WEATHERTIGHT CONNECTION AT WALL INSULATION FROM WALL BACK FOR A LENGTH OF 1800 mm OR AS INDICATED ON DRAWING _ _ _ _ _ _ _ _ CONTINUOUS ANGLE SUPPORT -----38x38x3mm ANGLE IRON SUPPORT AT 600 ON CENTRE REFER TO DWG'S & SPEC. FOR DUCT SIZE, GUAGE OF MATERIAL, INSULATION ETC. BIRDSCREEN AS SPEC. MAKE REMOVABLE

4 COWL HOOD DETAIL

NTS

KEY PLAN



PERMIT TO PRACTICE
AECOM CANADA ULC

RM SIGNATURE:
RM APEGA ID #: 76394
DATE:
June 24 2025
PERMIT NUMBER: P010450
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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PROJECT

AECOM Canada Architects Ltd.

50 Sportsworld Crossing Road, Suite 290 Kitchener, Ontario, N2P 0A4

AIRPORT RENTAL

CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

REGISTRERED OWNER:

NORTH ARROW AND KEYPLAN

300-100 SNOWBIRD WAY FORT MCMURRAY, AB, T9H 0G3

FORT MCMURRAY AIRPORT AUTHORITY

60723990

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I/R DATE DESCRIPTION

PRODUCTION INFORMATION

DRAWN: J.SERRANO
REVIEWED: Y.CHEN

SHEET TITLE

DETAILS 3 OF 3

SHEET NUMBER

REVISION

M-603

Plotted: 6/6/2025 10:35:22 AM

	BOILER (NATURAL GAS) SCHEDULE													
TAG	MANUFACTURER	MODEL	LOCATION	HEATING INPUT (kW)	HEATING OUTPUT (kW)	THERMAL EFFICIENCY (%)	FLUID	EFT (°C)	LFT (°C)	FLOWRATE (L/s)	PRESSURE DROP (kPa)	ELECTRICAL (V/Ph/Hz)	AMPS	REMARKS
B-1	WEIL-MCLAIN	EVG-155	MECH 11	45.4	41.9	95.0	50% PG	55	75	0.57	N/A	120/1/60	15	INDOOR WALL HUNG. LOW WATER CUTOFF, C/W CONCENTRIC VENT KIT, CONDENSATE NEUTRALIZER KIT, EASY-UP MANIFOLD KIT. BOILER CALCULATOR. REFER TO BOILER MANUAL FOR INSTALLATION.
B-2	WEIL-MCLAIN	EVG-155	MECH 11	45.4	41.9	95.0	50% PG	55	75	0.57	N/A	120/1/60	15	INDOOR WALL HUNG. LOW WATER CUTOFF, C/W CONCENTRIC VENT KIT, CONDENSATE NEUTRALIZER KIT, EASY-UP MANIFOLD KIT. BOILER CALCULATOR. REFER TO BOILER MANUAL FOR INSTALLATION.
B-3	WEIL-MCLAIN	80H	MECH 11	23.4	21.7	95.0	50% PG	34	47.8	0.26	N/A	120/1/60	15	INDOOR WALL HUNG. LOW WATER CUTOFF, C/W CONCENTRIC VENT KIT, CONDENSATE NEUTRALIZER KIT. BOILER CALCULATOR. REFER TO BOILER MANUAL FOR INSTALLATION.
B-4	WEIL-MCLAIN	EVG-399	MECH 11	117	112	96.5	50% PG	41	52.2	1.88	N/A	120/1/60	15	INDOOR WALL HUNG. LOW WATER CUTOFF, C/W CONCENTRIC VENT KIT, CONDENSATE NEUTRALIZER KIT. BOILER CALCULATOR. REFER TO BOILER MANUAL FOR INSTALLATION.

	INFRARED HEATER SCHEDULE													
TAG	MANUFACTURER	MODEL	LOCATION	INPUT HEAT	TURBULATOR LENGTH & LOCATION	LINE PRESSURE NG/LP (kPa)	MANIFOLD PRESSURE NG/LP (kPa)	COMBUSTION AIR DUCT DIAMETER (Ø mm)	FLUE & AIR VENTS (Ø mm)	ELECTRICAL (V/Ph/Hz)	TOTAL HEATER LENGTH (m)	SHIPPING WEIGHT (kg)	REMARKS	
IH-1	SCHWANK	SST-SS05-20-CN	WASH BAY 12	14.7	3 x 914 mm in 2ND TUBE	1.2 / 2.7	0.9 / 2.5	100	102 / 102	120/1/60	9.5	69	20VA HIGH EFFICIENT ECM. INFRARED HEATERS TO BE SUITABLE FOR WASHBAY APPLICATIONS.	
IH-2	SCHWANK	SST-SS05-20-CN	WASH BAY 12	14.7	3 x 914 mm in 2ND TUBE	1.2 / 2.7	0.9 / 2.5	100	102 / 102	120/1/60	9.5	69	20VA HIGH EFFICIENT ECM. INFRARED HEATERS TO BE SUITABLE FOR WASHBAY APPLICATIONS.	
IH-3	SCHWANK	SST-SS05-20-CN	WASH BAY 13	14.7	3 x 914 mm in 2ND TUBE	1.2 / 2.7	0.9 / 2.5	100	102 / 102	120/1/60	9.5	69	20VA HIGH EFFICIENT ECM. INFRARED HEATERS TO BE SUITABLE FOR WASHBAY APPLICATIONS.	
IH-4	SCHWANK	SST-SS05-20-CN	WASH BAY 13	14.7	3 x 914 mm in 2ND TUBE	1.2 / 2.7	0.9 / 2.5	100	102 / 102	120/1/60	9.5	69	20VA HIGH EFFICIENT ECM. INFRARED HEATERS TO BE SUITABLE FOR WASHBAY APPLICATIONS.	
IH-5	SCHWANK	SST-SS05-20-CN	WASH BAY 14	14.7	3 x 914 mm in 2ND TUBE	1.2 / 2.7	0.9 / 2.5	100	102 / 102	120/1/60	9.5	69	20VA HIGH EFFICIENT ECM. INFRARED HEATERS TO BE SUITABLE FOR WASHBAY APPLICATIONS.	
IH-6	SCHWANK	SST-SS05-20-CN	WASH BAY 14	14.7	3 x 914 mm in 2ND TUBE	1.2 / 2.7	0.9 / 2.5	100	102 / 102	120/1/60	9.5	69	20VA HIGH EFFICIENT ECM. INFRARED HEATERS TO BE SUITABLE FOR WASHBAY APPLICATIONS.	
IH-7	SCHWANK	SST-SS06-20-CN	WASH BAY 15	19.0	3 x 914 mm in 2ND TUBE	1.2 / 2.7	0.9 / 2.5	100	102 / 102	120/1/60	9.5	69	20VA HIGH EFFICIENT ECM. INFRARED HEATERS TO BE SUITABLE FOR WASHBAY APPLICATIONS.	
IH-8	SCHWANK	SST-SS06-20-CN	WASH BAY 15	19.0	3 x 914 mm in 2ND TUBE	1.2 / 2.7	0.9 / 2.5	100	102 / 102	120/1/60	9.5	69	20VA HIGH EFFICIENT ECM. INFRARED HEATERS TO BE SUITABLE FOR WASHBAY APPLICATIONS.	

	PUMP SCHEDULE													
									ELE	CTRICAL				
TAG	MANUFACTURER	MODEL	SERVICE	LOCATION	FLUID	FLOWRATE (L/s)	HEAD (m)	POWER (W)	RPM	V/Ph/Hz	VFD (Y/N)	REMARKS		
P-1	TACO	VR15M	STORAGE AREA HEATING SYSTEM	MECH 09	50% PG	1.20	10.0	480	3600	115/1/60	N	VERTICAL INLINE PUMP C/W ECM MOTOR. IP44. BMS COMPATIBLE. DUTY/STANDBY CONFIGURATION.		
P-2	TACO	VR15M	STORAGE AREA HEATING SYSTEM	MECH 09	50% PG	1.20	10.0	480	3600	115/1/60	N	VERTICAL INLINE PUMP C/W ECM MOTOR. IP44. BMS COMPATIBLE. DUTY/STANDBY CONFIGURATION.		
P-3	GRUNDFOS	UPS26-99FC	WASHBAY 12 IN-SLAB HEATING	MECH 09	50% PG	0.48	5.0	197	-	115/1/60	N	VERTICAL INLINE PUMP, STAINLESS STEEL CIRCULATOR, 3-SPEED MOTOR		
P-4	GRUNDFOS	UPS26-99FC	WASHBAY 13 IN-SLAB HEATING	MECH 09	50% PG	0.48	5.0	197	-	115/1/60	N	VERTICAL INLINE PUMP, STAINLESS STEEL CIRCULATOR, 3-SPEED MOTOR		
P-5	GRUNDFOS	UPS26-99FC	WASHBAY 14 IN-SLAB HEATING	MECH 09	50% PG	0.48	5.0	197	-	115/1/60	N	VERTICAL INLINE PUMP, STAINLESS STEEL CIRCULATOR, 3-SPEED MOTOR		
P-6	GRUNDFOS	UPS26-99FC	WASHBAY 15 IN-SLAB HEATING	MECH 09	50% PG	0.48	5.0	197	-	115/1/60	N	VERTICAL INLINE PUMP, STAINLESS STEEL CIRCULATOR, 3-SPEED MOTOR		

	EXPANSION TANK SCHEDULE												
TAG	MANUFACTURER	MODEL	SERVICE	LOCATION	TANK VOLUME (L)	ACCEPTANCE VOLUME (L)	SIZE (DIA Ø mm)	REMARKS					
ET-1	AMTROL	AX-20V-DD	STORAGE AREA HEATING	MECH 09	62.5	42.8	381Ø x 686H	ASME DEEP DRAWN DIAPHRAGM.					
ET-2	AMTROL	AX-15V-DD	SNOW MELTING	MECH 09	32.5	12.1	308Ø x 559H	ASME DEEP DRAWN DIAPHRAGM.					
ET-3	AMTROL	AX-60V	WASH BAY IN-SLAB HEATING	MECH 09	127.2	42.8	381Ø x 686H	ASME DEEP DRAWN DIAPHRAGM.					
ET-4	AMTROL	ST-30VC-DD	DOMESTIC HOT WATER	MECH 09	62.8	42.8	381Ø x 635H	ASME DEEP DRAWN DIAPHRAGM.					

	GLYCOL FILL TANK SCHEDULE											
TAG	MANUFACTURER	MODEL	SERVICE	LOCATION	SOLUTION CONTAINER	DIMENSIONS (DIA Ø OR	ELECTRICAL REMARKS					
IAG	WANDFACTURER	WIODEL	SERVICE	LOCATION	(L)	L mm x H mm)	V/Ph/Hz Watts					
GFT-1	AXIOM	MF200	STORAGE AREA HEATING	MECH 11	25	300W x 300L x 400H	115/1/60 50					
GFT-2	AXIOM	MF200	DRIVEWAY SNOW MELTING	MECH 11	25	300W x 300L x 400H	115/1/60 50					
GFT-3	AXIOM	DMF300	WASH BAY IN-SLAB HEATING	MECH 11	64	305W x 305L x 918H	115/1/60 50					

	FORCE FLOW HEATER SCHEDULE (HYDRONIC)												
TAG	MANUFACTURER	MODEL	SERVICE	HEATING CAPACITY (kW)	HEATING FLUID	EFT (°C)	LFT (°C)	FLOW (L/s)	PRESSURE DROP (kPa)	AIRFLOW (L/s)	MOTOR RPM MOTOR SIZE (W)	V/Ph/Hz	MOUNTING REMARKS
FF-1	MODINE	CW	CORR. 11	6	50% PG	75	55	0.076	3.9	123	1625 30	120/1/60	CEILING CONTROLLED BY THERMOSTAT.
FF-2	MODINE	CW	CORR. 11	3.8	50% PG	75	55	0.063	2.1	123	1625 30	120/1/60	WALL CONTROLLED BY THERMOSTAT.

								UNIT HEATER	SCHEDULE						
		HEATING EFT LET FLOWRATE PRESSURE DROP AIRELOW									RICAL				
TAG	MANUFACTURER	MODEL	AREA SERVING	CAPACITY (kW)	FLUID	EFT (°C)	LFT (°C)	FLOWRATE (L/s)	PRESSURE DROP (kPa)	AIRFLOW (L/s)	MOTOR RPM	POWER (W)	V/Ph/Hz	MOUNTING	REMARKS
UH-1	MODINE	HC 47SB01SA	MECH 11	4	50% PG	75.0	55	0.082	0.3	344	1600	62	120/1/60	CEILING	CONTROLLED BY THERMOSTAT.
UH-2	MODINE	HC 47SB01SA	MECH 11	4	50% PG	75.0	55	0.082	0.3	344	1600	62	120/1/60	CEILING	CONTROLLED BY THERMOSTAT.
UH-3	MODINE	HC 33SB01SA	CAR WASH EQUIPMENT MECH 10	3	50% PG	75.0	55	0.057	0.3	297	1550	30	120/1/60	CEILING	CONTROLLED BY THERMOSTAT.
UH-4	MODINE	HC 33SB01SA	STORAGE 4	3	50% PG	75.0	55	0.057	0.3	297	1550	30	120/1/60	CEILING	CONTROLLED BY THERMOSTAT.
UH-5	MODINE	HC 33SB01SA	STORAGE 5	3	50% PG	75.0	55	0.057	0.3	297	1550	30	120/1/60	CEILING	CONTROLLED BY THERMOSTAT.
UH-6	MODINE	HC 33SB01SA	STORAGE 7	3	50% PG	75.0	55	0.057	0.3	297	1550	30	120/1/60	CEILING	CONTROLLED BY THERMOSTAT.
UH-7	MODINE	HC 33SB01SA	STORAGE 6	3	50% PG	75.0	55	0.057	0.3	297	1550	30	120/1/60	CEILING	CONTROLLED BY THERMOSTAT.

	BASEBOARD HEATER (HYDRONIC) SCHEDULE												
TAG	MANUFACTURER	MODEL	LOCATION	HEATING CAPACITY (W)	PIPING CONNECTION SIZE (Ø mm)	HEATING FLUID	ENCLOSURE HEIGHT (mm)	ENCLOSURE DEPTH (mm)	REMARKS				
BB-1	ENGINEERED AIR	WF-1, 1 ROW	CORRIDOR	1418	20	50% PG	300	67	WALL MOUNT				
BB-2	ENGINEERED AIR	WF-1, 1 ROW	WASHROOM / JANITOR ROOM	1006	20	50% PG	450	67	WALL MOUNT				

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PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

CLIENT



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

NORTH ARROW AND KEYPLAN

KEY PLAN



PERMIT TO PRACTICE AECOM CANADA ULC RM SIGNATURE: _____ RM APEGA ID #: 76394 June 24 2025 PERMIT NUMBER: P010450 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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7 06/06/2025 ISSUED FOR TENDER 6 24/04/2025 ISSUED FOR TENDER (DRAFT) 5 07/03/2025 ISSUED FOR BUILDING PERMIT 4 14/02/2025 100% SUBMISSION 3 07/02/2025 ISSUED FOR 100% REVIEW

2 10/06/2024 60% DESIGN 1 | 19/04/2024 | 30% DESIGN

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PRODUCTION INFORMATION DRAWN: J.SERRANO

REVIEWED: Y.CHEN

SHEET TITLE

MECHANICAL SCHEDULES 1 OF

SHEET NUMBER

M-701

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	ENERGY RECOVER VENTILATOR SCHEDULE													
				AIRFLOW		SUPPLY FAN			EXHAUST FAN					
TAG	MANUFACTURER	MODEL	LOCATION	S/A AIRFLOW (L/s) E/A AIRFLOW (Pa) MOTOR SIZE (kW) ESP (Pa) MOTOR SIZE (kW) QUANTITY ESP (Pa) MOTOR SIZE (kW)		QUANTITY	V/Ph/Hz	DIMENSIONS (L mm x W mm x H mm)	REMARKS					
ERV-1	SYSTEMAIR	TOPVEX FR800HW-208-3-CAV	MECH 11	235	235	249	2.8	1	249	2.8	1	208/3/60	1600 x 541 x 1000	C/W O/A DAMPER, E/A DAMPER, MERV 13 S/A FILTER, MERV 9 R/A FILTER, SLIDING DOOR KIT, AND DISCONNECT
ERV-2	SYSTEMAIR	TOPVEX FR800HW-208-3-CAV	CAR WASH EQUIPMENT MECH 10	189	189	249	2.8	1	249	2.8	1	208/3/60	1600 x 541 x 1000	C/W O/A DAMPER, E/A DAMPER, MERV 13 S/A FILTER, MERV 9 R/A FILTER, SLIDING DOOR KIT, AND DISCONNECT

	ENERGY RECOVERY VENTILATOR SCHEDULE (CONTINUED)														
				SUPPLY SI	DE HEAT RECOV	ERY WINTER CON	DITIONS	SUPPLY	SIDE HEAT REC	OVERY SUMMER O	CONDITIONS				
TAG	MANUFACTURER	MODEL	LOCATION	RECOVERED CAPACITY (kW)	EFFICIENCY (%)	ENTERING AIR TEMPERATURE (°C)	LEAVING AIR TEMPERATURE (°C)	RECOVERED CAPACITY (kW)	EFFICIENCY (%)	ENTERING AIR TEMPERATURE (°C)	LEAVING AIR TEMPERATURE (°C)		ROP REMARKS		
ERV-1	SYSTEMAIR	TOPVEX FR800HW-208-3-CAV	MECH 11	8.4	79.2	-5.2	14.8	-4.1	69.6	28.3	24.9	90	DOUBLE ROTARY HEAT RECOVERY		
ERV-2	SYSTEMAIR	TOPVEX FR800HW-208-3-CAV	CAR WASH EQUIPMENT MECH 10	7.0	82.1	-5.2	15.2	-3.5	74.8	28.3	24.8	70	DOUBLE ROTARY HEAT RECOVERY		

												ENERGY	RECOVERY	VENTILATOR	SCHEDULE (CONTINUED)										
								F	PREHEAT CO	IL										REHEAT COIL	-					
TAC	MANUFACTURER MODEL LOCATION	LOCATION				А	.IR				FLUID						А	AIR				FLUID			DEMARKS	
TAG	WANUFACTURER	MODEL	LOCATION	CAPACITY (kW)	NO. OF COILS	EAT (°C)	LAT (°C)	FLOW (L/s)	PRESSURE DROP (Pa)	TYPE	EFT (°C)	LFT (°C)	FLOW (L/s)	PRESSURE DROP (kPa)	CAPACITY (kW)	NO. OF COILS	EAT (°C)	LAT (°C)	FLOW (L/s)	PRESSURE DROP (Pa)	TYPE	EFT (°C)	LFT (°C)	FLOW (L/s)	PRESSUR DROP (kPa)	REMARKS E
ERV-1	SYSTEMAIR	TOPVEX FR800HW- 208-3-CAV	MECH 11	10.0	1	-40.0	-5.2	235	14.9	50% PG	75.0	55.3	0.126	15.8	7.3	1	-5.2	20	235	17.4	50% PG	75	62.5	0.145	20.3	HIGH CAPACITY PREHEAT AND REHEAT COILS
ERV-2	SYSTEMAIR	TOPVEX FR800HW- 208-3-CAV	CAR WASH EQUIPMENT MECH 10	8.0	1	-40.0	-5.2	189	10.0	50% PG	75.0	52.9	0.088	8.7	5.8	1	-5.2	20	189	12.4	50% PG	75	60.3	0.1	9.7	HIGH CAPACITY PREHEAT AND REHEAT COILS

						EXHAUST F	FAN SCHEDULE					
					AIR FLOW	STATIC			ELECTRICAL			
TAG	MANUFACTURER	MODEL	SERVICE	SERVICE LOCATION		PRESSURE (Pa)	MOTOR POWER (kW)	OPERATING RPM	TYPE	VFD (Y/N)	V/Ph/Hz	REMARKS
EF-1	PENNBARRY	FX14B	WASH BAY 12	WASH BAY 12 ROOF	1,298	124.4	0.75	1217	BELT DRIVEN	Y	208/3/60	ROOF MOUNT UPBLAST, C/W 450mm HIGH INSULATED ROOF CURB, BIRD SCREEN, AND BACKDRAFT DAMPER, INTERLOCK WITH MUA-1
EF-2	PENNBARRY	FX14B	WASH BAY 13	WASH BAY 13 ROOF	1,298	124.4	0.75	1217	BELT DRIVEN	Y	208/3/60	ROOF MOUNT UPBLAST, C/W 450mm HIGH INSULATED ROOF CURB, BIRD SCREEN, AND BACKDRAFT DAMPER, INTERLOCK WITH MUA-2
EF-3	PENNBARRY	FX14B	WASH BAY 14	WASH BAY 14 ROOF	1,298	124.4	0.75	1217	BELT DRIVEN	Υ	208/3/60	ROOF MOUNT UPBLAST, C/W 450mm HIGH INSULATED ROOF CURB, BIRD SCREEN, AND BACKDRAFT DAMPER, INTERLOCK WITH MUA-3
EF-4	PENNBARRY	FX14B	WASH BAY 15	WASH BAY 15 ROOF	1,298	124.4	0.75	1217	BELT DRIVEN	Υ	208/3/60	ROOF MOUNT UPBLAST, C/W 450mm HIGH INSULATED ROOF CURB, BIRD SCREEN, AND BACKDRAFT DAMPER, INTERLOCK WITH MUA-4
EF-5	BROAN	L700L	MECH 11	MECH 11	310	62	0.313	1029	DIRECT DRIVEN	N	115/1/60	T-BAR MOUNTED C/W GRILLE

										MAKEUP A	AIR UNIT SCHEDU	ILE				
					BLO	WER				BURNER						
TAG	MANUFACTURER	MODEL	LOCATION	AIRFLOW (L/s)	TYPE	ESP (Pa)	MOTOR (kW)	TYPE	OUTPUT CAPACITY (kW)	FUEL	TURNDOWN RATIO	TEMPERATURE RISE (°C)	V/Ph/Hz	DIMENSIONS (L mm x W mm x H mm)	WEIGHT (kg)	REMARKS
MUA-1	NAGAS EXPRESS	SDM-25	WASH BAY 12 ROOF	1250	FC/DWDI	250	1.2	DIRECT GAS FIRED	92.6	NATURAL GAS	30:1	43.3	208/3/60	1918 x 1302 x 1041	57.4	DOUBLE WALL G90 GALVANIZED CONSTRUCTION, C/W 50mm THICK FIBERGLASS WALL INSULATION (R-7.8 MIN.), ACCESS DOORS ON BOTH SIDES, OUTSIDE AIR HOOD WITH BIRD SCREEN AND 50mm MERV8 FILTERS, INTAKE AIR DAMPER, HORIZONTAL DISCHARGE, SPRING VIBRATION ISOLATORS AND VFD. OUTDOOR RATED (NEMA 3R). INTERLOCK WITH EF-1.
MUA-2	NAGAS EXPRESS	SDM-25	WASH BAY 13 ROOF	1250	FC/DWDI	250	1.2	DIRECT GAS FIRED	92.6	NATURAL GAS	30:1	43.3	208/3/60	1918 x 1302 x 1041	57.4	DOUBLE WALL G90 GALVANIZED CONSTRUCTION, C/W 50mm THICK FIBERGLASS WALL INSULATION (R-7.8 MIN.), ACCESS DOORS ON BOTH SIDES, OUTSIDE AIR HOOD WITH BIRD SCREEN AND 50mm MERV8 FILTERS, INTAKE AIR DAMPER, HORIZONTAL DISCHARGE, SPRING VIBRATION ISOLATORS AND VFD. OUTDOOR RATED (NEMA 3R). INTERLOCK WITH EF-2.
MUA-3	NAGAS EXPRESS	SDM-25	WASH BAY 14 ROOF	1250	FC/DWDI	250	1.2	DIRECT GAS FIRED	92.6	NATURAL GAS	30:1	43.3	208/3/60	1918 x 1302 x 1041	57.4	DOUBLE WALL G90 GALVANIZED CONSTRUCTION, C/W 50mm THICK FIBERGLASS WALL INSULATION (R-7.8 MIN.), ACCESS DOORS ON BOTH SIDES, OUTSIDE AIR HOOD WITH BIRD SCREEN AND 50mm MERV8 FILTERS, INTAKE AIR DAMPER, HORIZONTAL DISCHARGE, SPRING VIBRATION ISOLATORS AND VFD. OUTDOOR RATED (NEMA 3R). INTERLOCK WITH EF-3.
MUA-4	NAGAS EXPRESS	SDM-25	WASH BAY 15 ROOF	1250	FC/DWDI	250	1.2	DIRECT GAS FIRED	92.6	NATURAL GAS	30:1	43.3	208/3/60	1918 x 1302 x 1041	57.4	DOUBLE WALL G90 GALVANIZED CONSTRUCTION, C/W 50mm THICK FIBERGLASS WALL INSULATION (R-7.8 MIN.), ACCESS DOORS ON BOTH SIDES, OUTSIDE AIR HOOD WITH BIRD SCREEN AND 50mm MERV8 FILTERS, INTAKE AIR DAMPER, HORIZONTAL DISCHARGE, SPRING VIBRATION ISOLATORS AND VFD. OUTDOOR RATED (NEMA 3R). INTERLOCK WITH EF-4.

						SUF	PPLY FAN SCHEDULE				
								ELECTR	RICAL		
TAG	MANUFACTURER	MODEL	SERVICE	LOCATION	AIR FLOW (L/s)	STATIC PRESSURE (Pa)	MOTOR POWER (kW)	OPERATING RPM	VFD (Y/N)	V/Ph/Hz	REMARKS
SF-1	PENNBARRY	SQX135	ELEC 2	ELEC 08	165	124	0.56	1564	N	115/1/60	C/W 50mm MERV8 FILTER, ECM MOTOR, AND MULTISPEED CONTROLLER iQ-MS, SPRING HANGER VIBRATION ISOLATION, NEMA 1 MOUNTED SERVICE SWITCH. INTERLOCK WITH MOTORIZED DAMPER.

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



REGISTRERED OWNER: FORT MCMURRAY AIRPORT AUTHORITY 300-100 SNOWBIRD WAY

NORTH ARROW AND KEYPLAN

FORT MCMURRAY, AB, T9H 0G3

KEY PLAN



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7 06/06/2025 ISSUED FOR TENDER 6 24/04/2025 ISSUED FOR TENDER (DRAFT) 5 07/03/2025 ISSUED FOR BUILDING

PERMIT 4 14/02/2025 100% SUBMISSION

3 07/02/2025 ISSUED FOR 100% REVIEW 2 10/06/2024 60% DESIGN

1 19/04/2024 30% DESIGN I/R DATE DESCRIPTION

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REVIEWED: Y.CHEN

SHEET TITLE

MECHANICAL SCHEDULES 2 OF

SHEET NUMBER

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									CEILING FAN SCHEDULE
						ELEC1	RICAL		
TAG	MANUFACTURER	MODEL	LOCATION	AIRFLOW (L/s)	DIAMETER (m)	MOTOR SIZE	V/Ph/Hz	WEIGHT (kg)	REMARKS
CF-1	CANARM	CP48DW11N	WASH BAY 12	3475	1.2	0.6 A	120/1/60	7.5	HIGH PERFORMANCE WEATHER PROOF 3-BLADE DC FAN WITH 0.4m DOWNROD C/W WALL MOUNTED RREM-DCQ014-W - AA5 SPEED CONTROLLER PER FAN. FAN MUST BE SUITABLE FOR WET LOCATIONS. INSTALL WALL SPEED CONTROLLER WITHIN A NEMA 4X RATED BOX (PROVIDE NEMA 4X BOX SEPERATELY).
CF-2	CANARM	CP48DW11N	WASH BAY 13	3475	1.2	0.6 A	120/1/60	7.5	HIGH PERFORMANCE WEATHER PROOF 3-BLADE DC FAN WITH 0.4m DOWNROD C/W WALL MOUNTED RREM-DCQ014-W - AA5 SPEED CONTROLLER PER FAN. FAN MUST BE SUITABLE FOR WET LOCATIONS. INSTALL WALL SPEED CONTROLLER WITHIN A NEMA 4X RATED BOX (PROVIDE NEMA 4X BOX SEPERATELY).
CF-3	CANARM	CP48DW11N	WASH BAY 14	3475	1.2	0.6 A	120/1/60	7.5	HIGH PERFORMANCE WEATHER PROOF 3-BLADE DC FAN WITH 0.4m DOWNROD C/W WALL MOUNTED RREM-DCQ014-W - AA5 SPEED CONTROLLER PER FAN. FAN MUST BE SUITABLE FOR WET LOCATIONS. INSTALL WALL SPEED CONTROLLER WITHIN A NEMA 4X RATED BOX (PROVIDE NEMA 4X BOX SEPERATELY).
CF-4	CANARM	CP48DW11N	WASH BAY 15	3475	1.2	0.6 A	120/1/60	7.5	HIGH PERFORMANCE WEATHER PROOF 3-BLADE DC FAN WITH 0.4m DOWNROD C/W WALL MOUNTED RREM-DCQ014-W - AA5 SPEED CONTROLLER PER FAN. FAN MUST BE SUITABLE FOR WET LOCATIONS. INSTALL WALL SPEED CONTROLLER WITHIN A NEMA 4X RATED BOX (PROVIDE NEMA 4X BOX SEPERATELY).

			DIFFUSER, LOUVER AND GRILLE SCHEDU	LE
TAG	MANUFACTURER	MODEL	SERVICE	REMARKS
SG-1	E.H. PRICE	520D	SUPPLY AIR	LOUVERED SUPPLY, C/W DAMPER, 20 mm BLADE SPACING.
SG-2	E.H. PRICE	SPD	SUPPLY AIR	600 x 600 SQUARE PLAQUE DIFFUSERS.
SG-3	E.H. PRICE	610	SUPPLY AIR	ALUMINUM LOUVERED SUPPLY GRILLE
RG-1	E.H. PRICE	80	RETURN AIR	EGG CRATE FACE RETURN GRILLE, C/W DAMPER.
EG-1	E.H. PRICE	80	EXHAUST AIR	EGG CRATE FACE RETURN GRILLE, C/W DAMPER.
EG-2	E.H. PRICE	630	EXHAUST AIR	ALUMINUM LOUVERED RETURN GRILLE
L-1	E.H. PRICE	DE439	OUTDOOR AIR/EXHAUST AIR	100 mm, 39° EXTRUDED BLADE WITH DRAINABLE LOUVER, CONSTRUCTION ALL WELDED, MILL FINISH, W/ BIRD SCREEN

									DUCT	MOUNTED C	OIL SCHEDULE								
TAG	MANUFACTURER	MODEL	LOCATION	DUCT CONNECTION SIZE (DIA Ø OR L mm x H mm)	NO. OF ROWS	FINS PER INCH	AIRFLOW (L/s)	ТҮРЕ	EAT (°C)	LAT (°C)	COIL CAPACITY (kW)	COIL AIR PRESSURE DROP (Pa)	FLUID	PIPE CONNECTION SIZE (mm)	FLUID FLOW (L/s)	EFT (°C)	LFT (°C)	REHEAT FLUID PRESSURE DROP (kPa)	REMARKS
HC-1	MODINE	3BD0701A	CORR 1	400 x 400	1	7	566	FLANGED	16.0	20.0	2.8	15	50% PG	15	0.038	75	55	4.3	FLANGED GALVANIZED STEEL
HC-2	MODINE	3BS0601A	CORR 1	300 x 300	1	6	330	FLANGED	16.0	20.0	1.6	14	50% PG	15	0.022	75	55	3.7	FLANGED GALVANIZED STEEL

					DOMESTIC WATER I	HEATER SCHEDULE		
TAG	MANUFACTURER	MODEL	TANK VOLUME (L)	HEATING INPUT (kW)	RECOVERY CAPACITY @ 56 °C RISE (L/hr)	V/Ph/Hz	DIMENSIONS (DIA Ø x H mm OR L mm x H mm)	REMARKS
DWH-1	AO SMITH	BTH-500 MXI	450	146	4361	120/1/60	838 Ø x 1930	ENERGYSTAR, DUTY/STANDBY CONFIGURATION
DWH-2	AO SMITH	BTH-500 MXI	450	146	4361	120/1/60	838 Ø x 1930	ENERGYSTAR, DUTY/STANDBY CONFIGURATION

	PLUMBING FIXTURES SCHEDULE													
TAG	MANUFACTURER	MODEL	FIXTURE TYPE	REMARKS										
MS-1	FIAT	MSB2424	MOP SINK	MOLDED STONE MOP SERVICE BASIN. SERVICE FAUCET 830-AA, HOSE AND HOSE BRACKET 832-AA. MOP HANGER 889-CC, 75mm QUICK DRAIN CONNECTOR QDC-3XH, SILICONE SEALANT 833-AA, VINYL BUMPERGUARD E-77-AA, STAINLESS STEEL WALL GUARD E-88-AA.										
FD-1	WATTS	FD-100-C-A	FLOOR DRAIN	EPOXY COATED CAST IRON FLOOR DRAIN W/ ANCHOR FLANGE, ADJUSTABLE ROUND 6mm THICK TOP. NO HUB OUTLET. 102 PIPE SIZE.										
WC-1	AMERICAN STANDARD	CADET 2467601.020	WATER CLOSET (ADA)	FLOOR MOUNTED TANK TYPE TOILET, 4.2 LPF. CENTOCO SEAT MODEL 820STS-001. ENLONGATED BOWL, OPEN FRONT, HEAVY DUTY.										
NFHB	WATTS	HY-725	NON-FREEZE HOSEBIB	NON-FREEZE WALL HYDRANT, 19mm HOSE CONNECTION, INTEGRAL VACUUM BREAKER, NICKEL BRONZE BOX AND DOOR										
LAV-1	AMERICAN STANDARD	0955001EC	LAVATORY (ADA)	WHEEL CHAIR USERS LAVATORY, WALL MOUNTED, WHITE, SUPPLIES WITH STOP, 1-1/4" TRAP, CONCEALED ARMS SUPPORT, OFFSET GRID DRAIN ASSEMBLY, RECESSED SELFDRAINING DECK, VITREOUS CHINA SHROUD/KNEE COMTACT GUARD, SLOAN FAUCET MODEL EAF-200-HLT-CP-0.5GPM, SLOAN MIX-135-A MIXING VALVE, DRAINS, P-TRAP AND SUPPLY.										
HB-1	MURDOCK	M-3673	HOSEBIB	BRASS CASING, BRONZE INTERIOR PARTS HYDRANT, 19mm HOSE CONNECTION, EXTERNAL VACUUM BREAKER AND DOOR.										
EEW-1	GUARDIAN	G1825	EMERGENCY EYE WASH	PEDESTAL MOUNTED, STAINLESS STEEL, INTERNAL FLOW CONTROL AND FILTER. LAWLER MODEL 911 E/F-UNIT 84907 EMERGENCY MIXING VALVE.										
TPD-1	JAY R. SMITH	270SM SERIES	ELECTRONIC TRAP PRIMING DEVICE	SURFACE MOUNT WITH COVER										

CONSULTANT

PRIME:
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Kitchener, Ontario, N2P 0A4

PROJECT

AIRPORT RENTAL CAR QTA FACILITY

300-100 SNOWBIRD WAY, FORT MCMURRAY, ALBERTA

PROJECT NUMBER

60723990

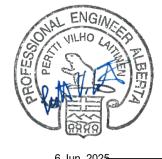
CLIENT



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

NORTH ARROW AND KEYPLAN

KEY PLAN



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RM APEGA ID #: 76394

DATE:

June 24 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

7 06/06/2025 ISSUED FOR TENDER
6 24/04/2025 ISSUED FOR TENDER (DRAFT)
5 07/03/2025 ISSUED FOR BUILDING
PERMIT
4 14/02/2025 100% SUBMISSION
3 07/02/2025 ISSUED FOR 100% REVIEW
2 10/06/2024 60% DESIGN
1 19/04/2024 30% DESIGN

I/R DATE DESCRIPTION

PRODUCTION INFORMATION
DRAWN: J.SERRANO

REVIEWED: Y.CHEN

SHEET TITLE

MECHANICAL SCHEDULES 3 OF

SHEET NUMBER

REVISION

M-703

						SLAB HEATING DIST	RIBUTION MANIFOLD SC	HEDULE	
TAG	MANUFACTURER	MODEL	SERVICE	MANIFOLD HOUSING SIZE (LxWxH mm)	FLUID	TOTAL MANIFOLD FLOW (L/s)	NO. OF LOOPS	PIPE SIZE (mm)	REMARKS
MF-1	HEATLINK	SS75200	WASHBAY 12 DRIVEWAY SNOW MELT	610 x 584 x 98	50% P.G.	0.068	1	20	SURFACE MOUNTED STAINLESS STEEL ENCLOSURE, ISOLATION VALVES AND THERMOMETERS. 5/8" TUBING SIZE.
MF-2	HEATLINK	SS75200	WASHBAY 13 DRIVEWAY SNOW MELT	610 x 584 x 98	50% P.G.	0.068	1	20	SURFACE MOUNTED STAINLESS STEEL ENCLOSURE, ISOLATION VALVES AND THERMOMETERS. 5/8" TUBING SIZE.
MF-3	HEATLINK	SS75200	WASHBAY 14 DRIVEWAY SNOW MELT	610 x 584 x 98	50% P.G.	0.068	1	20	SURFACE MOUNTED STAINLESS STEEL ENCLOSURE, ISOLATION VALVES AND THERMOMETERS. 5/8" TUBING SIZE.
MF-4	HEATLINK	SS75200	WASHBAY 15 DRIVEWAY SNOW MELT	610 x 584 x 98	50% P.G.	0.068	1	20	SURFACE MOUNTED STAINLESS STEEL ENCLOSURE, ISOLATION VALVES AND THERMOMETERS. 5/8" TUBING SIZE.
MF-5	HEATLINK	SS75200	WASHBAY 12 IN-SLAB HEATING	876 x 724 x 149	50% P.G.	0.47	8	30	SURFACE MOUNTED STAINLESS STEEL ENCLOSURE, ISOLATION VALVES AND THERMOMETERS. 5/8" TUBING SIZE.
MF-6	HEATLINK	SS75200	WASHBAY 13 IN-SLAB HEATING	876 x 724 x 149	50% P.G.	0.47	8	30	SURFACE MOUNTED STAINLESS STEEL ENCLOSURE, ISOLATION VALVES AND THERMOMETERS. 5/8" TUBING SIZE.
MF-7	HEATLINK	SS75200	WASHBAY 14 IN-SLAB HEATING	876 x 724 x 149	50% P.G.	0.47	8	30	SURFACE MOUNTED STAINLESS STEEL ENCLOSURE, ISOLATION VALVES AND THERMOMETERS. 5/8" TUBING SIZE.
MF-8	HEATLINK	SS75200	WASHBAY 15 IN-SLAB HEATING	876 x 724 x 149	50% P.G.	0.47	8	30	SURFACE MOUNTED STAINLESS STEEL ENCLOSURE, ISOLATION VALVES AND THERMOMETERS. 5/8" TUBING SIZE.

						SNOW ME	ELTING PANEL SCHEDULE		
TAG	MANUFACTURER	MODEL	SERVICE	MANIFOLD HOUSING SIZE (WxHxD mm)	FLUID	TOTAL MANIFOLD FLOW (L/s)	NO. OF LOOPS	PIPE SIZE (mm)	ELECTRICAL (V/Ph/Hz) (kW) REMARKS
SMP-1	HEATLINK	4WMIX-654	SNOW MELTING PANEL WITH PUMP	457 x 610 x 191	50% P.G.	0.27	1	20	120/1/60 0.2 DDC MIXING VALVE, THERMOMETER, INSULATION VALVE

AECON

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



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

NORTH ARROW AND KEYPLAN

KEY PLAN



DEDM

PERMIT TO PRACTICE
AECOM CANADA ULC

RM SIGNATURE:

RM APEGA ID #: 76394

DATE: June 24 2025

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MECHANICAL SCHEDULES 4 OF

SHEET NUMBER

'0*1*

M-704

Last Plotted: 6/6/2025 10:35:24 AM

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