PROCUREMENT SERVICES

CITY OF SURREY, SURREY CITY HALL
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ADDENDUM No. 1

REQUEST FOR QUOTATION No.:	**1220-040-2022-077**
TITLE:	**GUILDFORD LIBRARY: AIR HANDLING UNITS REPLACEMENTS**
ADDENDUM ISSUE DATE:	**SEPTEMBER 29, 2022**
REVISED DATE:	**PREFER TO RECEIVE SUBMISSION ON OR BEFORE OCTOBER 12, 2022**

INFORMATION FOR CONTRACTORS

Contractors are advised that Addendum No. 1 to 1220-040-2022-077 is hereby issued by the City. This addendum shall form part of the contract documents and is to be read, interpreted and coordinated with all other parts. The following information is provided to answer questions raised by Contractors for the above-named project, to the extent referenced and shall become a part thereof. No consideration will be allowed for extras due to the Contractors or any sub-contractor not being familiar with this addendum. This Addendum No. 1 contains 12 (twelve) pages.

CLARIFICATIONS:

1. Add the following optional pricing in Item # 9 of Schedule C – Form of Quotation:

	Description of Optional Prices	Addition	Deduction
OP-1.	**Cost of rigid steel conduit as per Electrical Addendum #1 by O'M Eng. dated September 28, 2022.**	**$ [ ]**	**$ [ ]**
OP-2.	**Provide a separate alternate price (cost savings) to replace the rigid steel conduit with EMT as per Electrical Addendum #1 by O'M Eng. dated September 28, 2022.**	**$ [ ]**	**$ [ ]**

Refer to Attachment No. 1.

2. Refer to changes in Mechanical Addendum #1 by AME dated Sept. 27 on Attachment No. 2.

QUESTIONS AND ANSWERS:

Q1. **We would like to know if there are any working hour restrictions as it is a library.**

A1. **Since the library is open 7 days a week, it would be challenging to work around opening hours. If any of the work is particularly loud or involves strong fumes, this would have to be coordinated with the City ahead of time (a few library staff are particularly sensitive to strong smells). If so, work would have to be scheduled for earlier in the morning before the library opens (i.e. 6-9:30am) and before library programs start. There are programs most mornings 10:30-11:30am and many afternoons between 2-4pm.**

Q2. **What requirements, if any, do you have for large crane lifts on city property?**

A2. **Contractor to review/confirm site access, dimensions, turning radius, etc. Loading capacity (coordinate with the City)**

Q3. **Can you clarify what you expect for a project schedule? Do you have any targeted start dates and end dates?**

A3. **Contractor to provide pricing to have fully operating AHUs before June 2023, if supply lines do not allow construction to finish before June 2023, construction to begin in September 2023. Contractor to order AHUs immediately after review of shop drawings and include all storage costs. No replacement during June, July August or November, December, January, February and March.**

Q4. **Can you provide weight information for the existing AHUs.**

A4. **It's shown on M2.01.**

Q5. **Are the bigger AHUs (old and new) assembled in modules or just one piece?**

A5. **AHUs in specification are fully assembled.**

Q6. **Please confirm whether there is warranty on the roof. If so, who is the base roofing contractor.**

A6. **Not under warranty, roof installation date estimated at 2007.**

Q7. **Confirm how long each system can be shut down for new installation. Confirm three separate crane lifts are required for project completion.**

A7. **Contractor to allow for only one unit in construction at a time. Contractor allotted a Monday to Friday period to decommission existing unit, install new unit and provide at least ventilation air to the space so that disturbance to the space will be isolated to a single Monday to Friday period. Contractor to provide temporary systems if work extends past the five working days.**

Q8. **Please confirm any afterhours requirement for Shutdown, mobilization, or demobilization.**

A8. **Any afterhours work or shutdowns will have to be coordinated with City's staff at least 2 weeks ahead of time. Lib. Hours: Monday 9:30a.m.–8p.m. Tuesday 9:30a.m.–8p.m. Wednesday 9:30a.m.–8p.m. Thursday 9:30a.m.–8p.m. Friday Closed. Saturday 10a.m.–5p.m. Sunday 10a.m.–5p.m.**

Q9. **Please confirm the access from below to the new curbs.**

A9. **Access will have to be coordinated with the City at least 2 weeks in advance.**

Q10. **Please refer "SCHEDULE C – FORM OF QUOTATION" of the above mentioned RFQ. Could you please clarify the following scope:**

Equipment Cost
AHU-L1
AHU-L3
AHU-L6
CU-L1 A
CU-L1 B
CU-L3
CU-L6

Installation: AHU-L1
CU-L1 A
CU-L1 B

What is going to do with rest of four items, not listed for installation.

A10. **See Attachment No. 3, Updated Schedule of Quantities and Prices. Craning line added in 2.2 and 2.4**

Q11. **The drawings show that they have spec'd Rigid Steel Conduit (RGS). Are we able to use EMT instead? It will still provide more than adequate protection and there will be a major cost savings.**

A11. **See Clarifications. Refer to attached electrical addendum #1 by O'M Engineering issued on Sept. 28, 2022.**

Q12. **Who is the controls Contractor for the building?**

A12. **ESC Automation Inc.**

-End of Page-

ATTACHMENT NO. 1 – O'M Engineering Tender Addendum #1

o:m Engineering
Electrical & Electronic

TENDER ADDENDUM #1

PROJECT NO:	21-105	DATE:	September 28, 2022
PROJECT NAME:	Guildford Library Mechanical Upgrades	ISSUED BY:	Mo Khan

TO: Attn: Scott Stewart P.Eng
The AME Group
200-638 Smithe Street
Vancouver, BC, V6B 1E3

The following Addendum shall form part of the referenced tender document for the stated project above, and is to be read, interpreted, and coordinated with all other items. As such, all costs for work performed herein, shall be included within the tender. Thus, the following revisions supersede any information contained within the project's original drawings and specifications. Except for items outlined below, all other terms and conditions shall remain the same as in the original tender documents and if applicable, any previously issued addenda.

1. REFERENCED DRAWING E101 AND E102

1. Include in the base bid the cost of rigid steel conduit as per tender drawings.
2. Provide a separate alternate price (cost saving) to replace the rigid steel cosuit with EMT.

END OF ELECTRICAL ADDENDUM NO. 1

Guildford Library – Equipment Upgrades
085b-067-21

Addendum Number One (1)
September 27, 2022

The following addendum supersedes information contained in drawings and specifications issued for the project to the extent referenced. This Addendum forms part of the Tender Documents and is subject to all of the conditions set out in the contract conditions.

1. DRAWINGS – MECHANICAL

1.1 Drawing No.: M0.01

.1 Revise:

.1 Mechanical drawing list, new drawing M2.03

.2 General notes

1.2 Drawing No.: M1.01

.1 Add:

.1 AHU schedule, notes 18,19, 20, 21,22

.2 Revise:

.1 Remarks, all to include notes 18 thru 22

1.3 Drawing No.: M2.02

.1 Add:

.1 Note regarding condensing unit final location

.2 Revise:

.1 Condensing units CU-L1-A and CU-L1-B location. Units shifted over east to allow for coil pull clearance of AHU-L1.

.2 Equipment tag EEV-L1-B to EEV-L1-A

1.4 Drawing No.: M2.03

.1 Add:

.1 New drawing, with details for condensate drain line for units with high efficiency gas burners

2. SPECIFICATIONS – MECHANICAL

2.1 Section: 27 73 10

.1 Delete:

.1 2.3.3 – required for base to act as a drain pan

.2 2.4.2 – 12” round window not required

.2 Revise:

.1 2.3.2 – Floor plate construction

.2 2.9.4 – Drain pans to be designed as per ASHRAE 62.1-2001 IAQ standards

.3 2.9.9 – Cooling coil casings to be galvanized steel

.4 2.13 – Louvres made of galvanized steel with waterproof painting

.5 1.3.7 – Unit to have single disconnect

The following addendum supersedes information contained in drawings and specifications issued for the project to the extent referenced. This Addendum forms part of the Tender Documents and is subject to all of the conditions set out in the contract conditions.

END OF MECHANICAL ADDENDUM NO. 1

Yours very truly,

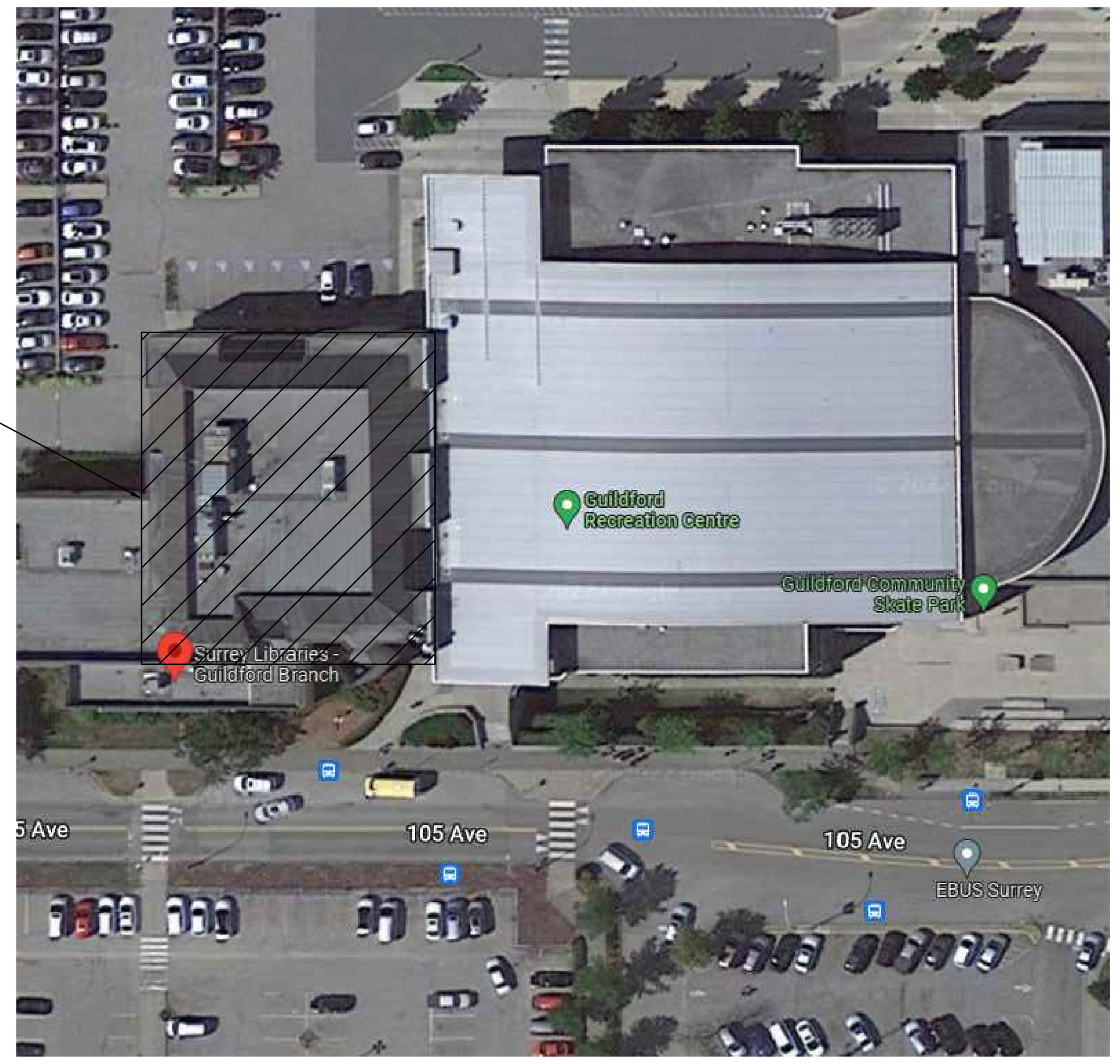
The AME Consulting Group Ltd.

Umer Mian, EIT

Building Performance Specialist - Vancouver, BC

PROFESSIONAL'S SEAL & SIGNATURE

Attachment(s): *M0.01, M1.01, M2.02, M2.03*



1 / M0.01 SITE PLAN
SCALE: NTS

NORTH

MECHANICAL RENOVATION NOTES

1. THE CONTRACTOR SHALL BE REQUIRED TO ATTEND A PRE-BID WALK THROUGH TO ENSURE A PROPER UNDERSTANDING OF THE MECHANICAL SCOPE OF WORK.
2. CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND VERIFYING ACTUAL ON-SITE CONDITIONS AND EQUIPMENT LOCATIONS PRIOR TO ANY AND ALL DEMOLITION WORK AND/OR EQUIPMENT REMOVAL.
3. CONTRACTOR TO INCLUDE AS A PART OF THE BID ALL COSTS ASSOCIATED WITH CUTTING AND PATCHING THAT IS REQUIRED TO INSTALL ALL NEW MECHANICAL SYSTEMS AS REQUIRED TO MEET THE SITE CONDITIONS AS SHOWN ON THE DRAWINGS. PATCHING SHALL MEET THE AESTHETIC CONDITIONS WHICH WAS THE CONDITION PRIOR TO ANY CUTTING BEING PREFORMED.
4. CONTRACTOR TO PROPERLY SEAL AND REPAIR ANY AND ALL DAMAGE THAT IS A RESULT OF REMOVAL OR DEMOLITION OF MECHANICAL EQUIPMENT. THIS INCLUDES BUT IS NOT LIMITED TO WALL, DOOR, CEILINGS, ETC.
5. THE EXISTING FACILITIES MECHANICAL SYSTEMS SHALL REMAIN OPERATIONAL DURING THE CONSTRUCTION AND RENOVATION PERIOD. CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES AND PHASING WITH OWNER TO MINIMIZE DISRUPTIONS TO OWNERS OPERATIONS AND ACCESS, AND TO ENSURE SAFETY OF THE USERS. PROVIDE ALL MEASURES REQUIRED TO PREVENT HAZARDS TO PEOPLE AND DAMAGE TO ITEMS REMAINING INCLUDING BUT NOT LIMITED TO DAMAGE FROM DUST AND HEAT.
6. THE EXISTING DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. AS A RESULT, THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT.
7. DURING REMOVAL OF ITEMS SO INDICATED, CAUTION SHOULD BE USED TO PREVENT DAMAGE TO ANY EQUIPMENT HAVING SALVAGE VALUE. ALL REUSABLE SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND BE RETAINED FOR THEIR INSPECTION. ONLY ITEMS AGREED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
8. CONTRACTOR SHALL COORDINATE AND SCHEDULE WORK WITH FACILITY TO LIMIT INTERFERENCE WITH OPERATIONS.

MECHANICAL ABBREVIATIONS

AD	AREA DRAIN	INV	INVERT
AFF	ABOVE FINISHED FLOOR	JS	JANITOR SINK
AHU	AIR HANDLING UNIT	KW	KILOWATT
ARCH	ARCHITECTURAL	KS	KITCHEN SINK
BB	BASEBOARD HEATER	LV	LAVATORY
BDD	BACKDRAFT DAMPER	LAT	LEAVING AIR TEMPERATURE
BF	BOTTLE FILLER	LBS	POUNDS
BFP	BACKFLOW PREVENTER	LWT	LEAVING WATER TEMPERATURE
BHP	BREAK HORSEPOWER	MAU	MAKE-UP AIR UNIT
BTUH	BRITISH THERMAL UNIT / HOUR	MAX	MAXIMUM
CD	CONTROL DAMPER	MH	MANHOLE
CB	CATCH BASIN	MBH	1000 BRITISH THERMAL UNITS/HOUR
CFM	CUBIC FEET PER MINUTE	MD	MOTORIZED DAMPER
CLG	CEILING	MECH	MECHANICAL
CO	CLEANOUT	MIN	MINIMUM
CONN	CONNECTION	MU	MAKE-UP MECHANICAL WATER
C/W	COMPLETE WITH	NFHB	NON FREEZE WALL HYDRANT
CONT	CONTINUATION	NIC	NOT IN CONTRACT
DB	DRY BULB	NC	NOISE CRITERIA/NORMALLY CLOSED
CTE	CONNECT TO EXISTING	NO	NORMALLY OPEN
DCW	DOMESTIC COLD WATER	NTS	NOT TO SCALE
DDC	DIRECT DIGITAL CONTROL	O/A	OUTDOOR AIR
DEG	DEGREE	OBD	OPPOSED BLADE DAMPER
DF	DRINKING FOUNTAIN	OED	OPEN ENDED DUCT
DHW	DOMESTIC HOT WATER	OD	OUTSIDE DIAMETER
DIA	DIAMETER	PDI	PLUMBING AND DRAINAGE INSTITUTE
DN	DOWN	POC	POINT OF CONNECTION
DW	DISH WASHER	PRV	PRESSURE REDUCING VALVE
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
DWHR	DOMESTIC HOT WATER RECIRCULATION	R/A	RETURN AIR
E/A	EXHAUST AIR	RF	RETURN FAN
EAT	ENTERING AIR TEMPERATURE	RM	ROOM
EF	EXHAUST FAN	RPM	REVOLUTIONS PER MINUTE
EFF	EFFICIENCY	RWL	RAIN WATER LEADER
ELEC	ELECTRICAL	S/A	SUPPLY AIR
ENT	ENTERING	SF	SUPPLY FAN
ESP	EXTERNAL STATIC PRESSURE	SH	SHOWER
EWT	ENTERING WATER TEMPERATURE	SK	SINK DRAIN ABOVE
EXH	EXHAUST	SS	STAINLESS STEEL
F	FIRE MAIN	SP	STATIC PRESSURE
FD	FLOOR DRAIN	SPEC	SPECIFICATION
FE	FIRE EXTINGUISHER	SR	SANITARY RISER
FLA	FULL LOAD AMPS	ST	STORM MAIN
FLR	FLOOR	T/A	TRANSFER AIR
FPM	FEET PER MINUTE	TAD	TRANSFER AIR DUCT
FT	FEET/FOOT	TBC	TO BE CONFIRMED
GAL	GALLONS	TBD	TO BE DETERMINED
GPM	GALLONS PER MINUTE	TD	TRENCH DRAIN
GWB	GYPSUM WALL BOARD	THRU	THROUGH
HD	HUB DRAIN	TS	TAMPER SWITCH
HB	HOSE BIBB	TSP	TOTAL STATIC PRESSURE
HP	HORSEPOWER	TYP	TYPICAL
HCR	HEATING COIL RETURN	UR	URINAL
HCS	HEATING COIL SUPPLY	V	VENT
HRR	HEAT RECOVERY RETURN	VFD	VARIABLE FREQUENCY DRIVE
HRS	HEAT RECOVERY SUPPLY	VTR	VENT THROUGH ROOF
HWR	HEATING WATER RETURN	W	WATER MAIN
HWS	HEATING WATER SUPPLY	WB	WET BULB
ID	INSIDE DIAMETER	WC	WATER CLOSET
IE	INVERT ELEVATION	WCO	WALL CLEANOUT
IN	INCH	WG	WATER GAUGE

MECHANICAL DRAWING LIST

DRAWINGS NO.	DESCRIPTION	SCALE
M0.01	DRAWING NOTES AND SYMBOL SCHEDULE	NTS
M1.01	MECHANICAL EQUIPMENT SCHEDULES	NTS
M2.01	ROOF PLAN - DEMOLITION	1:100
M2.02	ROOF PLAN - NEW WORKS	1:100
M2.03	MEZZANINE PLAN WITH CONDENSATE LINES	NTS
M3.01	SCHEMATICS AND DETAILS	NTS
M4.01	EXISTING HVAC PLAN - BASEMENT FLOOR	NTS
M4.02	EXISTING HVAC PLAN - MAIN FLOOR	NTS
M4.03	EXISTING HVAC PLAN - MEZZANINE FLOOR	NTS

SYMBOL SCHEDULE

DEMOLITION	EXISTING	NEW	DESCRIPTION
PIPING			
			DOMESTIC COLD WATER (DCW)
			DOMESTIC HOT WATER (DHW)
			DOMESTIC HOT WATER RECIRC. (DHWR)
V	V	V	SANITARY VENT
SAN	SAN	SAN	SANITARY SEWER ABOVE GRADE
SAN	SAN	SAN	SANITARY SEWER BELOW GRADE
ST	ST	ST	STORM SEWER ABOVE GRADE
ST	ST	ST	STORM SEWER BELOW GRADE
			PIPE CLEAN-OUT
			PIPE CLEAN-OUT TO GRADE
F	F	F	FIRE LINE
SP	SP	SP	WET SPRINKLER LINE
DSP	DSP	DSP	DRY SPRINKLER LINE
HWS	HWS	HWS	HYDRONIC HEATING WATER SUPPLY
HWR	HWR	HWR	HYDRONIC HEATING WATER RETURN
CHWS	CHWS	CHWS	CHILLED WATER SUPPLY
CHWR	CHWR	CHWR	CHILLED WATER RETURN
C	C	C	CONDENSATE DRAIN
HRS	HRS	HRS	HEAT RECOVERY SUPPLY
HRR	HRR	HRR	HEAT RECOVERY RETURN
CONDS	CONDS	CONDS	CONDENSER WATER SUPPLY
CONDR	CONDR	CONDR	CONDENSER WATER RETURN
FITTINGS AND VALVES			
			DIRECTION OF FLOW
			PIPE DROP
			PIPE RISE
			PIPE TEE UP
			PIPE TEE DOWN
			PIPE UNION
NO	NO	NO	ISOLATION VALVE (NORMALLY OPEN)
NC	NC	NC	ISOLATION VALVE (NORMALLY CLOSED)
			CHECK VALVE
			2-WAY CONTROL VALVE
			3-WAY CONTROL VALVE
			BALANCING VALVE
			PRESSURE REDUCING VALVE (PRV)
			POOL FLOW CONTROL VALVE
			STRAINER
			RELIEF VALVE
			BACKFLOW PREVENTOR (BFP)
			AUTOMATIC AIR VENT (AAV)
			SEISMIC GAS SHUT-OFF VALVE
			TEMPERATURE GAUGE
			PRESSURE GAUGE
			THERMOMETER
			PUMP
EM	EM	EM	ENERGY METER
BTU	BTU	BTU	BTU METER
OUTLETS AND DRAINS			
			OPEN DRAIN
			HOSE-BIBB (HB)
			FLOOR DRAIN (FD)
			FUNNEL FLOOR DRAIN
			ROOF DRAIN (RD)
			AREA DRAIN

DEMOLITION	EXISTING	NEW	DESCRIPTION
SYSTEM MONITORING			
T	T	T	ROOM TEMPERATURE SENSOR
RT	RT	RT	REVERSE ACTING TEMPERATURE SENSOR
S	S	S	SLAB TEMPERATURE SENSOR
H	H	H	HUMIDITY SENSOR
CO_2	CO_2	CO_2	CO_2 SENSOR
AFM	AFM	AFM	AIR FLOW METER
FS	FS	FS	FLOW SWITCH
T	T	T	PIPE TEMPERATURE SENSOR
P	P	P	PRESSURE SENSOR
DUCTWORK			
			SUPPLY OR OUTDOOR AIR DUCT UP
			SUPPLY OR OUTDOOR AIR DUCT DOWN
			RETURN AIR DUCT UP
			RETURN AIR DUCT DOWN
			EXHAUST AIR DUCT UP
			EXHAUST AIR DUCT DOWN
			TURNING VANES
			ACOUSTIC INSULATION
			BALANCING DAMPER (BD)
BDD	BDD	BDD	BACKDRAFT DAMPER (BDD)
			MOTORIZED DAMPER (MD)
FD	FD	FD	FIRE DAMPER - VERTICAL (FD)
FD	FD	FD	FIRE DAMPER - HORIZONTAL (FD)
			DUCT OR PIPE CAP-OFF
			RETURN OR EXHAUST AIR GRILLE
UC	UC	UC	UNDER-CUT DOOR
FIRE PROTECTION			
FE	FE	FE	FIRE EXTINGUISHER
			FIRE DEPARTMENT SIAMESE CONNECTION
			PENDANT SPRINKLER HEAD
			UPRIGHT SPRINKLER HEAD
			UP AND DOWN EXT COVERAGE
			SIDEWALL SPRINKLER HEAD
EC	EC	EC	EXT. COVERAGE SIDEWALL HEAD
			DRY SPRINKLER ALARM VALVE
			WET SPRINKLER SUPPLY LINE
DRY	DRY	DRY	DRY SPRINKLER SUPPLY LINE
PRE	PRE	PRE	PRE-ACTION SPRINKLER LINE
F	F	F	FIRE LINE TO STANDPIPE
EQUIPMENT TAGS			
			GRILLE TYPE NECK/GRILLE SIZE AIR VOLUME
			EQUIPMENT/FIXTURE TYPE
			GENERAL NOTE
			DRAWING REVISION
M-	M-	M-	DETAIL NUMBER DRAWING NUMBER
M-	M-	M-	SECTION NUMBER DRAWING NUMBER

MECHANICAL GENERAL NOTES

GENERAL
1. READ THE DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS INCLUDING THE PROJECT SPECIFICATIONS AND OTHER DRAWINGS SETS. IN CASES OF DIFFERENCE BETWEEN THE DOCUMENTS WITH RESPECT TO THE QUANTITY, SIZES, OR SCOPE OF WORK, THE GREATER SHALL APPLY.
2. THE MECHANICAL SPECIFICATION IS INCLUDED IN A SEPARATE DOCUMENT.
3. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOUR REQUIRED TO INSTALL COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
4. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED PROVINCIAL AND LOCAL CODES, AS WELL AS FEDERAL, PROVINCIAL, AND MUNICIPAL REGULATIONS.
5. WHEN MECHANICAL WORK IS SUB-CONTRACTED, IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
6. THE INFORMATION INDICATED WITHIN THESE DRAWINGS IS DIAGRAMMATIC IN NATURE, CONTAINING INFORMATION TO A DEGREE OF DETAIL CONSISTENT WITH THEIR SCALE, ADEQUATE TO CONVEY THE DESIGN INTENT AND THEREFORE DOES NOT INDICATE EVERY REQUIRED OFFSET, FITTING OR SLOPE.PROVIDE EQUIPMENT, MATERIALS AND METHODS NOT SHOWN OR SPECIFIED BUT REQUIRED TO PROVIDE A COMPLETE AND COORDINATED INSTALLATION.
7. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE CONSULTANT BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
8. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL,ELECTRICAL WORK, ETC.,
9. THESE DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY NOTED FOR SUCH PURPOSE.
10. THIS IS AN EXISTING BUILDING WITH EXISTING SERVICES AND UNKNOWN CONDITIONS. NOT ALL EXISTING SERVICES AND CONDITIONS HAVE BEEN IDENTIFIED ON THE DRAWINGS. THE CONTRACTOR IS TO COORDINATE ALL NEW WORK WITH EXISTING SERVICES AND CONFIRM EXACT ROUTING ON SITE.
11. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COMPARE ALL RELATED DRAWINGS, CONFIRM ALL DIMENSIONS, AND FIELD MEASURE AND CONFIRM ALL EXISTING CONDITIONS. REPORT ANY DISCREPANCIES TO THE CONSULTANT THAT WILL AFFECT SUCCESSFUL COMPLETION OF THE APPLY.
12. COORDINATE WITH CITY OF SURREY DESIGNATED REPRESENTATIVE FOR STORING ON SITE OF ALL NEW EQUIPMENT AND MATERIALS. NO EQUIPMENT OR MATERIALS ARE ALLOWED TO BE STORED ON SITE WITHOUT APPROVAL BY THE CLIENT REPRESENTATIVE.
13. ANY WORK GENERATING NOISE OR DUST THAT COULD AFFECT USERS WILL NEED TO BE PERFORMED AFTER HOURS. NO NOISE GENERATION THAT COULD AFFECT USERS AND OCCUPANTS IS ALLOWED DURING NORMAL OPERATING HOURS.
14. ANY WORK REQUIRING SYSTEM SHUTDOWNS MUST BE COORDINATED WITH THE CITY OF SURREY'S DESIGNATED REPRESENTATIVE PRIOR TO SHUTDOWN.
15. INSTALL ALL MECHANICAL EQUIPMENT AND RELATED WORK IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
16. INSTALL MECHANICAL WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE AND SQUARE TO BUILDING LINES.
17. MAINTAIN A MINIMUM OF 2.1M (7'-0") CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
18. COORDINATE ALL MECHANICAL WORK WITH OTHER TRADES TO ENSURE PROPER AND ADEQUATE INTERFACE WITH THE WORK OUTLINED FOR THIS PROJECT.
19. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
20. REFER TO THE MECHANICAL SPECIFICATIONS AND SCHEMATICS FOR ALL EQUIPMENT CONNECTION DETAILS.
21. PROVIDE STARTERS FOR ALL EQUIPMENT UNLESS SPECIFICALLY DENTIFIED AS BEING PROVIDED BY THE ELECTRICAL CONTRACTOR.

SUMMARY SCOPE OF WORK
1. THE PROJECT INTENT IS TO DEMOLISH THE EXISTING THREE (3) ROOF TOP UNITS (RTU) AHU-L1, AHU-L3, AHU-L6 AND INSTALL NEW AHUS, CONDENSING UNITS, DUCTING AND ASSOCIATED CONTROLS.
2. WORK INCLUDED: FURNISH AND INSTALL ALL EQUIPMENT AND SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS AS REQUIRED FOR COMPLETE AND FULLY FUNCTIONAL SYSTEMS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   - 2.1. DEMOLITION AND DISPOSAL OF REDUNDANT EQUIPMENT
   - 2.2. RIGGING
   - 2.3. PERMITS, FEES, ETC. REQUIRED FOR COMPLETION OF THE SCOPE OF WORK.
   - 2.4. SUPPLY AND INSTALLATION OF NEW EQUIPMENT AND ASSOCIATE SYSTEMS.
   - 2.5. TEMPORARILY REMOVING THEN REPAIRING DOORS, WALLS, OR ROOF SECTIONS FOR ACCESS AS REQUIRED.
   - 2.6. SEISMIC RESTRAINTS AND VIBRATION ISOLATION.
   - 2.7. ELECTRICAL POWER WIRING, DISCONNECTS, ETC. FOR NEW EQUIPMENT.
   - 2.8. CONTROL SYSTEM MODIFICATION AND EXPANSION TO INTEGRATE NEW EQUIPMENT AND SYSTEMS.
   - 2.9. CLEANING OF DUCT SYSTEMS AFFECTED BY SCOPE OF WORK.
   - 2.10. TESTING AND BALANCING
   - 2.11. COMMISSIONING
   - 2.12. OPERATOR TRAINING
   - 2.13. OVERTIME, AS REQUIRED.
3. WORK EXCLUDED:
   - 3.1. COST OF REPAIRING EXISTING EQUIPMENT THAT IS SPECIFIED TO BE REUSED, IF REQUIRED.
   - 3.2. ASBESTOS ABATEMENT. IF ASBESTOS IS DISCOVERED DURING THE COURSE OF THE WORK, CONTRACTOR SHALL NOTIFY THE OWNER'S DESIGNATED REPRESENTATIVE WHO WILL RETAIN ABATEMENT CONTRACTOR.

PROJECT SCHEDULE
1. CONSTRUCTION WORK TO BE APPROVED BY OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO START.
   - 1.1. EXPECTED START DATE (AWARD OF CONTRACT): PROVIDED IN FRONT END DOCUMENTS.
   - 1.2. DESIRED END DATE: PROVIDED IN FRONT END DOCUMENTS
2. SCHEDULE OF WORK CONSTRAINTS:
   - 2.1. PROVIDED IN FRONT END DOCUMENTS.
   - 2.2. ALLOW 10 WORKING DAYS FOR REVIEW OF SUBMITTALS UNLESS CONSULTANT AGREES TO ACCELERATED SCHEDULE.

PRICING INSTRUCTIONS
1. BY SUBMITTING A PRICE, CONTRACTOR GUARANTEES THAT THE PROPOSAL IS COMPLETE AND TURN-KEY, EXCEPT WHERE SPECIFIC EXCEPTIONS ARE PROVIDED HEREIN OR CLEARLY NOTED IN THE CONTRACTOR'S PROPOSAL.
2. PRIOR TO BID, CONTRACTOR SHALL COORDINATE ACCEPTABLE DOWNTIME PERIODS WITH OWNER'S DESIGNATED REPRESENTATIVE. PRICE SHALL INCLUDE ANY OVERTIME REQUIRED FOR THIS PROJECT.
3. PRICING SUBMISSION SHALL INCLUDE:
   - 3.1. PRICING USING BID FORM INCLUDED IN THE BID DOCUMENTS.
   - 3.2. BREAKOUT PRICES INDICATED.
   - 3.3. SEPARATE PRICES INDICATED.
   - 3.4. ANY ADDITIONAL ALTERNATE PRICES AT THE CONTRACTOR'S OPTION.
   - 3.5. CASH ALLOWANCES INDICATED.
   - 3.6. A PRELIMINARY SCHEDULE OF INSTALLATION INCLUDING FINAL DATE OF COMPLETION FOR THE PROJECT ASSUMING FULL SCOPE OF WORK IS IMPLEMENTED.
   - 3.7. ANY EXCLUSIONS IN ADDITION TO THOSE ALREADY CLEARLY EXCLUDED IN THE BID DOCUMENTS.DO NOT EXCLUDE SCOPE THAT IS OBVIOUSLY REQUIRED FOR COMPLETION OF THE PROJECT. DO NOT REPEAT EXCLUSIONS THAT ARE ALREADY CLEARLY LISTED IN THE BID DOCUMENTS.
4. SEPARATE PRICE INSTRUCTIONS
   - 4.1. PROVIDE A SEPARATE PRICE FOR A HIGH EFFICIENCY BURNER AND STANDARD EFFICIENCY BURNER FOR THE AHUS. HIGH EFFICIENCY BURNER TO INCLUDE ALL ADDITIONAL DETAILS BUT NOT LIMITED TO CONDENSATE DRAINAGE, CONDENSATE NEUTRALIZED, CEILING REMEDIATION AND PLUMBING DRAINAGE.
   - 4.2. CONTRACTOR TO PROVIDE A SEPARATE PRICE FOR A SEISMIC CURB FOR EACH AHU IF THE EXISTING CURB CANT BE REUSED.

PRIME CONTRACTOR
1. THE MECHANICAL CONTRACTOR SHALL BE THE PRIME CONTRACTOR FOR THIS PROJECT AND COORDINATE ALL WORK ASSOCIATED WITH THIS PROJECT INCLUDING ANY STRUCTURAL, ROOFING, ELECTRICAL, AND CONTROLS WORK, AND ANY OTHER TRADES REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
2. NO EXTRA COSTS WILL BE CONSIDERED FOR ANY COORDINATION OR TRADE THAT WAS NOT CONSIDERED BY THE PRIME CONTRACTOR TO BE NECESSARY TO COMPLETE THE SCOPE OF WORK.
3. ALL TRADES SHALL BE SPECIALIZED IN THE FIELD OF WORK THAT THEY ARE BEING RETAINED TO COMPLETE. IN NO CASE SHALL OWN FORCES BE USED FOR WORK THAT THEY ARE UNFAMILIAR OR UNQUALIFIED TO CARRY OUT.
4. PRIOR TO THE START OF ANY WORK, THE PRIME CONTRACTOR SHALL THOROUGHLY REVIEW THE CONTRACT DOCUMENTS AND ARRANGE FOR A START-UP MEETING WITH THE CONSULTANT(S) AND CLIENT TO REVIEW THE PHASING OF WORK AND CONSTRUCTION METHODOLOGY.

MANDATORY SITE VISIT
1. A MANDATORY SITE WALKTHROUGH WILL BE CONDUCTED DURING THE BID PERIOD. ALL BIDDING CONTRACTORS INCLUDING THE PRIME CONTRACTOR, MECHANICAL CONTRACTOR MUST ATTEND THE SITE WALKTHROUGH.
2. ASCERTAIN AND CHECK ALL CONDITIONS AND TAKE ALL MEASUREMENTS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE FOR ANY ADDITIONAL EXPENSES OR CLAIMS DUE TO THE FAILURE OR NEGLECT TO MAKE SUCH EXAMINATION, INCLUDING EXAMINATION OF RESTRICTED WORKING CONDITIONS OR SUCH OTHER DIFFICULTIES THAT CAN BE VISUALLY OBSERVED DURING THE SITE VISIT.

HAZARDOUS MATERIALS
1. SHOULD ANY HAZARDOUS MATERIALS BE DISCOVERED ON THE AREAS OF WORK, IMMEDIATELY CEASE WORK IN THIS AREA AND NOTIFY THE PRIME CONSULTANT AND OWNER IMMEDIATELY. ALL WORK IN THE AFFECTED AREA SHALL BE STOPPED UNTIL ABATEMENT WORKS ARE COMPLETE.

DEMOLITION
1. DEMOLITION SCOPE OF WORK SHALL INCLUDE DEMOLITION OF ALL EXISTING SYSTEM COMPONENTS THAT WILL BE FOUND TO BE REDUNDANT ONCE THE NEW WORK IS INSTALLED. THIS INCLUDED COMPONENTS SUCH AS, BUT NOT LIMITED TO, EXISTING EQUIPMENT, PIPING, DUCTWORK, CONTROLS, ETC.
2. DURING REMOVAL OF EXISTING EQUIPMENT, USE CAUTION TO PREVENT DAMAGE TO ANY EQUIPMENT THAT HAS SALVAGE VALUE. ALL REUSABLE SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND BE RETAINED FOR THEIR INSPECTION. ONLY ITEMS AGREED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR. THIS CONTRACTOR SHALL HAVE IN THEIR CONTRACT PRICE THE TOTAL REMOVAL AND DISPOSAL OF ALL EQUIPMENT AND MATERIALS.
3. IF ANY EXISTING DEFICIENCIES OUTSIDE THE SCOPE OF WORK ARE DISCOVERED, ADVISE THE PRIME CONSULTANT AND AWAIT INSTRUCTIONS BEFORE PROCEEDING.
4. ALL SYSTEMS THAT ARE CUT-BACK OR AFFECTED SHALL BE CAPPED FOR FUTURE CONNECTION. DO NOT LEAVE ANY SERVICES OPEN ENDED.
5. PROTECT ALL EXISTING SPRINKLER HEADS DURING GENERAL RENOVATION AND DEMOLITION WORK.
6. MAKE GOOD ANY FLOOR PENETRATIONS TO EXISTING QUALITY, MEETING THE FIRE RATING REQUIREMENTS OF THE FLOOR. PROVIDE CONSULTANT WITH FIRE STOPPING DETAIL OR INTENT OF FLOOR FILL PRIOR TO COMPLETING WORK.
7. PATCH AND MAKE GOOD (TO BASE BUILDING STANDARDS) MECHANICAL COMPONENTS AND FINISHES DAMAGED DURING RENOVATION. PROVIDE INSULATED CAPPED CURBS EQUAL TO OR BETTER THAN ROOF R-VALUE FOR FANS, GOOSENECK OPENINGS AND VENTS BEING ADDED AND REMOVED.
8. MECHANICAL TRADES BIDDING DEMOLITION WORK SHALL ALLOW FOR A FULL DAY ON SITE TO REVIEW EXISTING MECHANICAL SERVICES AND EQUIPMENT IN DEMOLITION AND RENOVATED AREAS. ACCESS WILL BE GIVEN TO ROOF AND EXISTING MECHANICAL AND ELECTRICAL ROOMS AS REQUIRED.
9. INCLUDE FOR DISPOSAL (FROM SITE) OF ALL REMOVED EQUIPMENT AND SERVICES, DUCTWORK, PIPING, PLUMBING, ETC. INCLUDING INSULATION AND HANGARS.

SUBMITTALS & SHOP DRAWINGS
1. SEE SPECIFICATION FOR SUBMITTAL AND SHOP DRAWING REQUIREMENTS.

CONSULTANT FIELD REVIEWS
1. ALL MECHANICAL WORK REQUIRES WRITTEN REVIEW BY THE CONSULTANT. CONSULTANT REVIEW IS FOR GENERAL COMPLIANCE WITH MECHANICAL CONCEPTS ONLY. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR BUILDING THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR IS RESPONSIBLE TO GIVE REASONABLE ADVANCE NOTICE OF WHEN WORK IS READY FOR REVIEW BY THE CONSULTANT, MINIMUM 5 BUSINESS DAYS PRIOR TO CONCEALMENT. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THEIR OWN WORK AND THE WORK OF THE SUBTRADES PRIOR TO REVIEW BY THE CONSULTANT.

SHEET METAL
1. SEE SPECIFICATION FOR DUCTWORK GAUGES, BRACING, HANGERS, AND OTHER REQUIREMENTS.
2. ALL DUCTWORK SIZES ARE CLEAR INSIDE DIMENSIONS. INCREASE DUCTWORK SIZE FOR ACOUSTICAL LINER TO MAINTAIN SPECIFIED INSIDE CLEAR DIMENSIONS.
3. SEE SPECIFICATION FOR DUCT PRESSURE CLASSIFICATIONS. WHERE DUCT PRESSURE CLASSIFICATIONS ARE NOT NOTED FOR A SPECIFIC APPLICATION OR UNCLEAR, CONFIRM WITH THE CONSULTANT DURING BID PERIOD.
4. ALL DUCTWORK AND PLENUMS SHALL BE CONSTRUCTED TO SEAL CLASS A. REFER TO SPECIFICATIONS FOR DETAILS.
5. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
6. FLEXIBLE DUCTWORK MAXIMUM LENGTH SHALL NOT EXCEED 1.5 M (5' 0").
7. LOCATE ALL MECHANICAL EQUIPMENT UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, AND VALVING.
8. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
9. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK WHICH REQUIRE SERVICE AND/OR INSPECTION.
10. [FIELD ERECTED AND FACTORY ASSEMBLED AIR HANDLING UNIT COILS SHALL BE ARRANGED FOR REMOVAL FROM THE UPSTREAM SIDE WITHOUT DISMANTLING SUPPORTS. PROVIDE GALVANIZED STRUCTURAL STEEL SUPPORTS FOR ALL COILS (EXCEPT LOWEST COIL) IN BANKS OVER TWO COILS HIGH TO PERMIT INDEPENDENT REMOVAL OF ANY COIL.]
11. [ALL AIR HANDLING UNITS SHALL OPERATE WITHOUT MOISTURE CARRYOVER.]
12. [SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.]

PLUMBING
1. ALL AIR CONDITIONING CONDENSATE DRAIN LINES SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH P-TRAP, AND PIPED TO NEAREST DRAIN. SEE DETAILS SHOWN ON DRAWINGS AND SPECIFICATIONS FOR DEPTH OF CONDENSATE TRAP.
2. RUN ALL SANITARY DRAINAGE AND STORM PIPING WITH 2 PERCENT MINIMUM GRADE UNLESS NOTED OTHERWISE. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO SANITARY WASTE PIPING BY GRAVITY.

FIRE PROTECTION SPRINKLERS
1. ALL SPRINKLER HEADS ARE TO MATCH EXISTING.
2. ALLOW FOR ALL WORK RELATED TO SPRINKLER REMOVAL AND RE-INSTALLATION INCLUDING, BUT NOT LIMITED TO, DRAINAGE AND RE-FILLING OF THE SYSTEM, NEW PIPING WORK, AND ALL PERMITS AND FEES.
3. CONTRACTOR IS RESPONSIBLE TO ENGAGE A FIRE PROTECTION ENGINEER TO REVIEW AND DESIGN ALL RELATED FIRE PROTECTION WORK. FP ENGINEER TO PROVIDE SCHEDULES B AND SCHEDULE C-B.

INSULATION
1. MECHANICAL CONTRACTOR TO CARRY AN APPROVED INSULATING CONTRACTOR TO PROVIDE ALLREQUIRED INSULATION WORK ASSOCIATED WITH THE SCOPE OF THIS PROJECT.
2. REPAIR PIPING INSULATION WHERE DAMAGED WITHIN THE DESIGNATED AREAS OF WORK AND PROVIDE INSULATION ON ALL NEW PIPING AS SPECIFIED. REQUEST CLARIFICATION DURING BIDPERIOD IF SCOPE OF REPAIR WORK IS UNCLEAR.
3. PROVIDE IDENTIFICATION OF ALL EXISTING AND NEW PIPING IN ACCORDANCE WITH THE SPECIFICATION WITHIN THE DESIGNATED AREAS OF WORK.
4. PIPE, DUCT, AND EQUIPMENT INSULATION SHALL NOT BE CRUSHED OR COMPRESSED THROUGH INTERFERENCE WITH SYSTEMS INSTALLED BY OTHER TRADES OR BUILDING CONSTRUCTION.
5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

CONTROLS
1. ALL CONTROLS WORK TO BE PERFORMED BY: -----
2. MODIFY THE EXISTING BMS TO ACCOMMODATE THE NEW EQUIPMENT AND OPERATING SEQUENCES DESCRIBED IN THE CONTRACT DOCUMENTS. PROVIDE NEW GRAPHICS TO ACCOMMODATE PROJECTCHANGES. PROVIDE ALL REQUIRED HARDWARE, SOFTWARE, PROGRAMMING, AND TROUBLESHOOTING REQUIRED TO ACHIEVE THE DESIGN INTENT.
3. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPING OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
4. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FIRESTOPPING
1. ALL PENETRATIONS OF FIRE RATED SEPARATIONS SHALL BE FIRE STOPPED IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.
2. FOR APPLICATIONS WHICH NO LISTED AND TESTED SYSTEM IS AVAILABLE, CUSTOM DETAILED GENERATED BY FIRE STOPPING MANUFACTURER SHALL BE SUBMITTED TO LOCAL AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

SEISMIC, VIBRATION ISOLATION & MISCELLANEOUS STEEL
1. RETAIN THE SERVICES OF A QUALIFIED STRUCTURAL ENGINEER TO PROVIDE A COMPLETE DESIGN, SIZING AND DETAILING OF ALL ANCHORS, SUPPORTS AND SEISMIC RESTRAINT FOR ALL MECHANICAL SYSTEMS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAIL FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS NOTED OTHERWISE) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
3. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
4. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
5. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.

ELECTRICAL
1. THE ELECTRICAL SCOPE OF THIS PROJECT IS TO BE CARRIED OUT AS DESIGN-BUILD BY THE CONTRACTOR.
2. ALL ELECTRICAL WORK WILL BE COMPLETED BY A LICENSED ELECTRICAL TRADE.
3. ALL ELECTRICAL WORK WILL CONFORM TO APPLICABLE CODES AND STANDARDS.
4. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

TESTING, ADJUSTING AND BALANCING
1. MECHANICAL CONTRACTOR SHALL CARRY AN APPROVED TESTING, ADJUSTING, AND BALANCING (TAB) CONTRACTOR FOR THIS PROJECT. SEE SPECIFICATIONS FOR LIST OF APPROVED CONTRACTORS AND ADDITIONAL REQUIREMENTS.
2. PROVIDE TAB SERVICES ON THE FOLLOWING SYSTEMS AS PART OF THIS PROJECT: AHUS FANS AND COILS.
3. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

COMMISSIONING AND TRAINING
1. ALL SYSTEMS MODIFIED AS PART OF THIS PROJECT SHALL BE (RE)COMMISSIONED.
2. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

GARBAGE REMOVAL
1. GARBAGE AND CONSTRUCTION DEBRIS GENERATED AS PART OF THIS PROJECT AT THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
2. CORRIDORS, ELEVATORS, LOBBIES, AND COMMON AREAS ARE TO BE KEPT CLEAR OF DEBRIS AT ALLTIMES.
3. DEBRIS AND WASTE MUST BE REMOVED FROM SITE ON A DAILY BASIS CONSTRUCTION DISPOSAL BINS ARE ALLOWED TO REMAIN IN DESIGNATED AREAS UPON APPROVAL OF THE OWNER'S DESIGNATED REPRESENTATIVE. UPON REMOVAL OF DISPOSAL BINS, CLEAN THE AREA AROUND THE BINS TO A TIDY SWEPT CONDITION WITH NO MATERIALS LEFT IN THE DESIGNATED AREAS.

AME Group
consulting mechanical engineers

☐ VICTORIA T. 250-382-5999 F. 250-382-5998 721 JOHNSON ST VICTORIA BC, V8W 1M8
☒ VANCOUVER T. 604-684-5995 F. 604-684-5993 200 - 638 SMITHE ST VANCOUVER BC, V6B 1E3
☐ CALGARY T. 403-252-2333 F. 403-252-2334 710 - 1122 4TH ST SW CALGARY AB, T2R 1M1
☐ EDMONTON T. 403-252-2333 F. 403-252-2334 3 - 300 KING ST SPRUCE GROVE AB, T7X 2C6

THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE CONSULTANT PRIOR TO COMMENCING THE WORK.

THESE DRAWINGS ARE NOT TO BE SCALED.

REV.	DATE	DESCRIPTION
1.	2022.08.05	ISSUED FOR REVIEW
2.	2022.08.16	ISSUED FOR REVIEW
3.	2022.08.17	ISSUED FOR REVIEW
4.	2022.08.29	ISSUED FOR REVIEW
5.	2022.08.31	ISSUED FOR REVIEW
6.	2022.08.31	ISSUED FOR TENDER
7.	2022.09.27	ISSUED FOR ADD-001

CONSULTANT:

SEAL: Permit to Practice No: 1000236
PROFESSIONAL PROVINCE OF BRITISH COLUMBIA ENGINEER S. K. STEWART # 50441
2022-09-27

PROJECT TITLE:
CITY OF SURREY - GUILDFORD LIBRARY - EQUIPMENT UPGRADES

PROJECT ADDRESS:
15105 105 AVE,
SURREY, BC
V3R 7G8

DRAWN BY	UM
CHECKED BY	MK/SS
SCALE	NTS
DATE	SEPTEMBER 27, 2022

DRAWING TITLE:
GENERAL NOTES

PROJECT NO.	DRAWING NO.
085b-067-21	M0.01

AIR HANDLING UNIT

TAG	AHU-L1	AHU-L3	AHU-L6
QUANTITY	1	1	1.0
LOCATION	ROOF	ROOF	ROOF
WEIGHT (LBS)	13800	3300	7600
DIMENSIONS (LxWxH)	352x113x120	133x62x44	256x92x84
MANUFACTURER	ENGINEERED AIR	ENGINEERED AIR	ENGINEERED AIR
SYSTEM TYPE	DUAL DUCT RTU	CUSTOM RTU	DUAL DUCT RTU
MODEL	FWE403/DJE100/C/M/O/MV/R	LM3/DJE20/C/M/MV/O	FWE143/DJE40/M/O/MV/R
POWER SUPPLY (V/PH/HZ)	575/3/60	575/3/60	575/3/60
MIN CIRCUIT AMPACITY (A)	104.4	10.8	37.6
MAX FUSE (A)	125.0	15.0	45.0
SUPPLY FAN			
TAG	AHU-L1	AHU-L3	AHU-L6
NORMAL VOLUME (CFM)	18,012	3200	5721
EXTERNAL STATIC (IN. WG)	1.1	0.75	1.1
TOTAL STATIC (IN. WG)	3.4	2.8	3.1
FAN TYPE	TWIN CITY 245/BAE-DW	TWIN CITY 122/BAE-DW	TWIN CITY 150/BAE-DW
MAX FAN SPEED (RPM)	1668	3957	3232
ACTUAL FAN SPEED (RPM)	1605	2969	2726
MOTOR (HP)	20.0	3.0	7.5
BRAKE HORSE POWER (HP)	14.3	2.3	4.8
VSD (VARIABLE SPD DRIVE)	YES	YES	YES
OUTLET VEL (FPM)	2900	2065	2455
RETURN FAN			
TAG	AHU-L1	AHU-L3	AHU-L6
VOLUME (CFM)	16,300	3,000	5,421
EXTERNAL STATIC (IN. WG)	0.4	0.44	0.64
TOTAL STATIC (IN. WG)	1.2	1.15	1.25
FAN TYPE	TWIN CITY 245/BAE-DW	TWIN CITY 122/BAE-DW	TWIN CITY 165/BAE-DW
MAX FAN SPEED (RPM)	1668	3957	2761
ACTUAL FAN SPEED (RPM)	1262	2384	1744
MOTOR (HP)	7.5	2.0	3.0
BRAKE HORSE POWER (HP)	6.4	1.1	2.2
VSD (VARIABLE SPD DRIVE)	YES	YES	YES
OUTLET VEL (FPM)	2625	1935	2029
HEATING COIL	VRF W/ GAS BACKUP	VRF W/ GAS BACKUP	VRF W/ GAS BACKUP
OUTPUT CAPACITY (MBH)	716.8	163.4	229.4
EAT DB (DEG. F)			
EAT WB (DEG. F)			
LAT DB (DEG. F)			
LAT WB (DEG. F)			
COIL P. DROP (IN. WG)	0.82	0.75	0.81
LEAVING COIL VEL (AFPM)	559	499	551
COOLING COIL	DX, INTERNAL	HEAT PUMP	DX, INTERNAL
SENSIBLE CAPACITY (MBH)	363	74.0	119.0
TOTAL CAPACITY (MBH)	513	114.0	175.0
EAT DB (DEG. F)	78.0	78.0	78.0
EAT WB (DEG. F)	67.0	67.0	67.0
LAT DB (DEG. F)	-	56.7	-
LAT WB (DEG. F)	-	55.5	-
[illegible] (FT. WG)	[illegible]	0.76	0.83
LEAVING COIL VE[illegible]	[illegible]	503.0	553.0
REFRIGERANT	[illegible]-410A	R-410A	R-410A
REMARKS	1 THRU 15,17 THRU 22	1 THRU 16, 18 THRU 22	1 THRU 15, 18 THRU 22

NOTES:

1 ALL HOA AND VSD STARTER ARE TO BE FACTORY INSTALLED AND BE INSTALLED IN NEMA 4 RATED ENCLOSURES.
2 TAMCO DAMPERS
3 TO SUITE EXISTING UNIT CURB AND OPENINGS
4 MERV-13 FILTER
5 VARIABLE SPEED MOTOR
6 RAINHOOD, BIRDSCREEN ON INTAKE
7 SEE MECHANICAL SPECIFICATIONS FOR FURTHER DETAILS
8 AHU-L1,L6 C/W CONDENSING UNITS, CAPABLE OF PROVIDING COOLING AT 95F AMBIENT
9 AHU-L1,L3,L6 ALL CONNECTED TO SEPARATE CONDENSING UNITS FOR HEATING
10 AHU-L3 CONNECTED TO SEPARATE CONDENSING UNIT FOR COOLING
11 ALL UNITS TO HAVE GAS FIRED BACKUP AT OUTPUT CAPACITIES NOTES ON HEATING COIL SCHEDULE, WITH CONDENSING (>90% EFFICIENT) BURNER
12 SINGLE POINT POWER CONNECTION TO UNIT
13 CONDENSING UNITS TO HAVE AN IEER OF 12.4
14 GAS HEATING CAPACITY AT MIN 15:1 TURN DOWN RATIO
15 CONTRACTOR TO PROVIDE ALL CURBS AND STUCTURAL PIECES TO ACCOMMODATE INSTALLATION
16 100% ECONOMIZER CAPABILITY
17 UNIT TO COME WITH REFIGERANT SPLIT COIL, 358.4 MBH OUTPUT EACH
18 GAS PRV TO BE RATED FOR 7 IN WC OF PRESSURE
19 STANDARD EFFICIENCY SHOWN (80%) FOR HEATING COIL. HIGH EFFICIENCY BURNERS TO BE 91% EFFICIENT
20 INCLUDE SEPARATE PRICING FOR HIGH EFFICIENCY BURNERS. INCLUDE BUILT IN CONDENSATE NEUTRALIZER WITH PRICING.
21 UNITS TO COME PROVIDED WITH DDC CONTROLS. SEE SEQUENCE OF OPERATIONS 25 90 00 AND CONTROLS SCHEMATICS M3.01 FOR CONTROL POINTS. CONTRACTOR TO PROVIDE HARD WIRED POINTS IF NOT PROVIDED WITH AHU PACKAGE.
22 UNITS TO COME WITH A SEISMIC CURB AS A SEPARATE PRICE.

VRF AIR COOLED CONDENSING UNIT

EQUIPMENT TAG	LOCATION	TYPE	MANUFACTURER	MODEL	TOTAL CLG CAP (MBH)	HTG CAP. (MBH)	EFFY (EER)	WEIGHT (LBS)	REFRIGERANT TYPE	ELECTRICAL INFO (MCA)	ELECTRICAL INFO (V/PH/HZ)	AMBIENT DESIGN (?F) COOLING	AMBIENT DESIGN (?F) HEATING	NOTES
CU-L1-A	ROOF	VRF OUTDOOR	LG	ARUM360CTE5	-	405	14.32	1336	R-410A	26.4+38.3	575/3/60	-	47	1,2,4,5,9,10
CU-L1-B	ROOF	VRF OUTDOOR	LG	ARUM360CTE5	-	405	14.32	1336	R-410A	26.4+38.3	575/3/60	-	47	1,3,4,[illegible],9,10
CU-L3	ROOF	VRF OUTDOOR	LG	ARUM167CTE5	144	189	13.52	655	R-410A	28.5	575/3/60	-	47	1,[illegible],9,10
CU-L6	ROOF	VRF OUTDOOR	LG	ARUM241CTE5	-	243	13.69	681	R-410A	41.4	575/3/60	-	47	1,[illegible],9,10

NOTES:

1 SEE MOTOR LIST FOR ELECTRICAL CONNECTION DETAILS
2 CU-L1-A/B IS COMPRISED OF SEPERATE TWO UNITS (ARUM144CTE5 AND ARUM216CTE5)
3 HEATING CAPACITY PROVIDED AT 47F
4 EER IS COMBINED FOR THE TWO UNITS
5 CONNECT TO AHU-L1
6 CONNECT TO AHU-L3
7 CONNECT TO AHU-L6
8 blank
9 UNIT TO PROVIDE HEATING BETWEEN -22 TO 61 F WB AMBIENT
10 EACH CONDESNING UNIT TO COME COMPLETE WITH ELECTRONIC EXPANSION VALVE AND AHU CONTROLLER CAPABLE OF RECEIVING A SIGNAL FROM THE BMS

MECHANICAL MOTORLIST

UNIT NUMBER	UNIT DESCRIPTION	UNIT LOCATION	ELECTRICAL LOAD					VOLT	PH	EQUIPMENT			STARTER				DISCONNECT			CONTROL				NOTES
			MCA	MOP	FLA	KW	HP			S	I	C	S	I	C	TYPE	S	I	C	S	I	C	TYPE	
	AIR HANDLING UNIT - AHU-L1																							
AHU-L1	DUAL DUCT, MULTI-ZONE AHU (W/ GAS BACK-UP)	ROOF	104.4	125				575	3	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS	1,2
CU-L1-A	CONDENSING UNIT - HEATING	ROOF	26.4	36.7				575	3	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS	2
	CONDENSING UNIT - HEATING	ROOF	38.3	53.8				575	3	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS	2
CU-L1-B	CONDENSING UNIT - HEATING	ROOF	26.4	36.7				575	3	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS	2
	CONDENSING UNIT - HEATING	ROOF	38.3	53.8				575	3	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS	2
	2x VRF EXPANSION VALVE	ROOF						12	1	M	M	M	-	-	-	-	-	-	-	M	M	M	INT	3
	2x VRF CONTROLLER	ROOF			0.1			208	1	M	M	E	-	-	-	-	E	E	E	M	M	M	BMS	1,3
	2x I/O MODULE	ROOF						12	1	M	M	M	-	-	-	-	-	-	-	M	M	M	BMS	1,2,3
	AIR HANDLING UNIT - AHU-L3																							
AHU-L3	SINGLE-ZONE AHU (W/ GAS BACK-UP)	ROOF	10.8	15				575	3	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS	1,2
CU-L3	CONDENSING UNIT - HEATING	ROOF	28.5	39.9				575	3	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS	1,2
	VRF EXPANSION VALVE	AHU-L3						12	1	M	M	M	-	-	-	-	-	-	-	M	M	M	INT	3
	VRF CONTROLLER	ROOF			0.1			208	1	M	M	E	-	-	-	-	E	E	E	M	M	M	BMS	1,3
	I/O MODULE	ROOF						12	1	M	M	M	-	-	-	-	-	-	-	M	M	M	BMS	1,2,3
	AIR HANDLING UNIT - AHU-L6																							
AHU-L6	DUAL DUCT, MULTI-ZONE AHU (W/ GAS BACK-UP)	ROOF	37.6	45				575	3	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS	1,2
CU-L6	CONDENSING UNIT - HEATING	ROOF	41.4	58.3				575	3	M	M	E	M	M	M	PCS	E	E	E	M	M	M	BMS	1,2
	VRF EXPANSION VALVE	ROOF						12	1	M	M	M	-	-	-	-	-	-	-	M	M	M	INT	3
	VRF CONTROLLER	ROOF			0.1			208	1	M	M	E	-	-	-	-	E	E	E	M	M	M	BMS	1,3
	I/O MODULE	ROOF						12	1	M	M	M	-	-	-	-	-	-	-	M	M	M	BMS	1,2,3

SUPPLIER / INSTALL / WIRE CODES:
MECH = MECHANICAL
ELEC = ELECTRICAL
G = GENERAL CONTRACTOR
S = SUPPLIED BY
I = INSTALLED BY
C = CONNECTED BY

STARTER CODES:
MAN = MANUAL STARTER
HOA = MAGNETIC STARTER W/ HAND/OFF/AUTO SWITCH W/ AUX. CONTACTS
MAG = MAGNETIC STARTER C/W AUX STATUS CONTACTS
MRR = MOTOR RATED RELAY, 24 VAC COIL & MOTOR PROTECTION SWITCH
PCS = PACKAGED CONTROL SYSTEM
VFD = VARIABLE FREQUENCY DRIVE
RVS = REDUCED VOLTAGE STARTER
WS = WALL SWITCH
CP = CONTROL PANEL

CONTROL DEVICE CODES:
AQUA = PUMP CONTROLLED BY AQUASTAT
BMS = BLDG MANAGEMENT SYSTEM
ES = END SWITCH
ET = LINE VOLTAGE T'STAT
FA = FIRE ALARM
FAP = FIRE ALARM PANEL
FS = FLOW SWITCH
GS = GAS SENSOR
H = HUMIDITY SENSOR
I = INTERLOCK, SEE NOTES
LIGHT = WIRED TO LIGHT SWITCH
LS = LEVEL SWITCH
OS = OCCUPANT SENSOR
PS = PRESSURE SWITCH
R. STAT = REVERSE ACTING THERMOSTAT
TC = TIME CLOCK
T = LOW VOLTAGE T'STAT OR SENSOR
TS = TAMPER SWITCH
VS = VARIABLE SPEED SWITCH
WS = WALL SWITCH

ELECTRICAL LOAD CODES:
BHP = BREAK HORSEPOWER
FLA = UNIT FULL LOAD AMPS
HP = UNIT OR MOTOR HORSE POWER
PH = POWER PHASE
MCA = MINIMUM CIRCUIT AMPS
VOLT = REQUIRED SUPPLY VOLTAGE

MISCELLANEOUS CODES:
FFCP = FIRE FIGHTERS CONTROL PANEL
FRAC = FRACTIONAL HORSEPOWER
INT = INTEGRAL PART OF UNIT

GENERAL NOTES:
A. ALL FIRE ALARM DEVICES WIRED BY ELECTRICAL
B. CONTROL PANELS ARE SHIPPED LOSS & REQUIRE FIELD WIRING
C. PCS EQUIPMENT REQUIRES SINGLE SOURCE POWER CONNECTION, UNLESS NOTED OTHERWISE
D. CP, VFD EQUIPMENT REQUIRES POWER WIRING TO AND FROM CONTROL PANEL TO CONTROLLED EQUIPMENT

NOTES:
1 SINGLE POINT POWER CONNECTION TO UNIT
2 SEE SEQUENCE OF OPERATIONS FOR CONTROL SCOPE
3 SEE VRF SCHEMATIC FOR MORE DETAILS

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☒ VANCOUVER
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200 - 638 SMITHE ST
VANCOUVER BC, V6B 1E3

☐ CALGARY
T. 403-252-2333 F. 403-252-2334
710 - 1122 4TH ST SW
CALGARY AB, T2R 1M1

☐ EDMONTON
T. 403-252-2333 F. 403-252-2334
3 - 300 KING ST
SPRUCE GROVE AB, T7X 2C6

REV.	DATE	DESCRIPTION
1.	2022.08.05	ISSUED FOR REVIEW
2.	2022.08.16	ISSUED FOR REVIEW
3.	2022.08.17	ISSUED FOR REVIEW
4.	2022.08.29	ISSUED FOR REVIEW
5.	2022.08.31	ISSUED FOR REVIEW
6.	2022.08.31	ISSUED FOR TENDER
7.	2022.09.27	ISSUED FOR ADD-001

CONSULTANT:

SEAL:
Permit to Practice No: 1000236
PROFESSIONAL PROVINCE OF BRITISH COLUMBIA ENGINEER
S. K. STEWART
50441
[illegible]
2022-09-27

PROJECT TITLE:
CITY OF SURREY - GUILDFORD LIBRARY - EQUIPMENT UPGRADES

PROJECT ADDRESS:
15105 105 AVE,
SURREY, BC
V3R 7G8

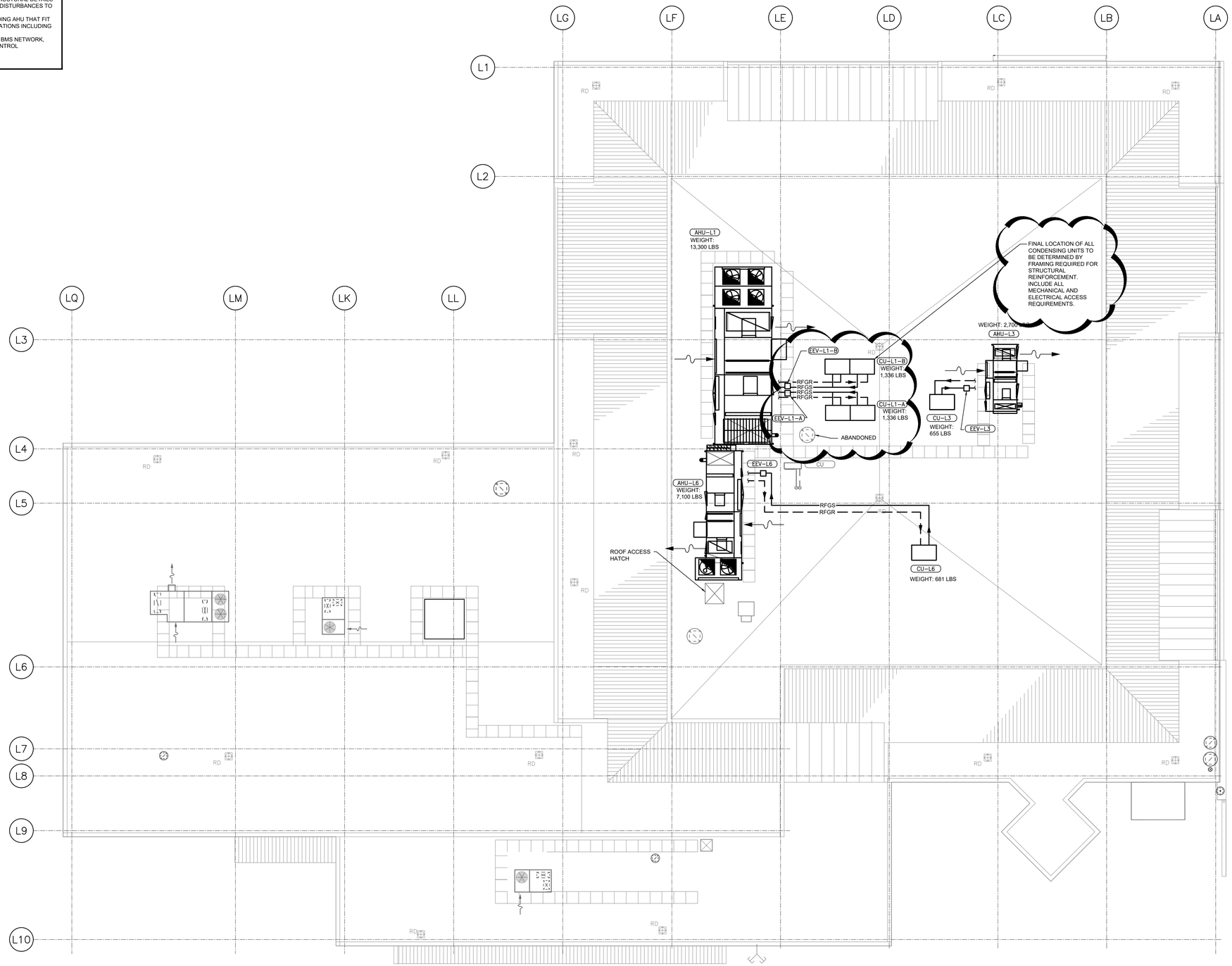
DRAWN BY	UM
CHECKED BY	MK/SS
SCALE	NTS
DATE	SEPTEMBER 27, 2022

DRAWING TITLE:
EQUIPMENT SCHEDULES

PROJECT NO. 085b-067-21
DRAWING NO. M1.01

DRAWING NOTES

1. CONTRACTOR TO INSTALL EEV AS CLOSE TO AHU AS POSSIBLE
2. CONTRACTOR TO PROVIDE RACKING SYSTEM FOR EEVS AND VRF CONTROL BOX. PROVIDE SHOP DRAWING REVIEW TO CONSULTANT.
3. FINAL LOCATIONS OF CONDENSING UNITS TO BE DETERMINED IN CONSULTATION WITH STRUCTURAL DETAILS AND OWNER REQUESTS FOR MINIMIZING DISTURBANCES TO OCCUPANT IN FLOOR BELOW.
4. CONTRACTOR RESPONSIBLE FOR PROVIDING AHU THAT FIT WITH EXISTING DUCT AND ROOF PENETRATIONS INCLUDING EACH DUAL DUCT CONNECTION.
5. CONTRACTOR TO CONNECT TO EXISTING BMS NETWORK, SEE SEQUENCE OF OPERATIONS AND CONTROL SCHEMATICS FOR DETAILS.



NORTH

1 / M2.02 ROOF PLAN - NEW WORK
SCALE: 1:100

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VANCOUVER BC, V6B 1E3

CALGARY
T. 403-233-2333 F. 403-252-2334
710 - 1122 4TH ST SW
CALGARY AB, T2R 1M1

EDMONTON
T. 403-237-2333 F. 403-252-2334
3 - 300 KING ST
SPRUCE GROVE AB, T7X 2C4

REV.	DATE	DESCRIPTION
1.	2022.08.05	ISSUED FOR REVIEW
2.	2022.08.16	ISSUED FOR REVIEW
3.	2022.08.17	ISSUED FOR REVIEW
4.	2022.08.29	ISSUED FOR REVIEW
5.	2022.08.31	ISSUED FOR REVIEW
6.	2022.08.31	ISSUED FOR TENDER
7.	2022.09.27	ISSUED FOR ADD-001

CONSULTANT:

SEAL:

PROJECT TITLE:
CITY OF SURREY - GUILDFORD LIBRARY - EQUIPMENT UPGRADES

PROJECT ADDRESS:
15105 105 AVE,
SURREY, BC
V3R 7G8

DRAWN BY	UM
CHECKED BY	MK/SS
SCALE	1:100
DATE	SEPTEMBER 27, 2022

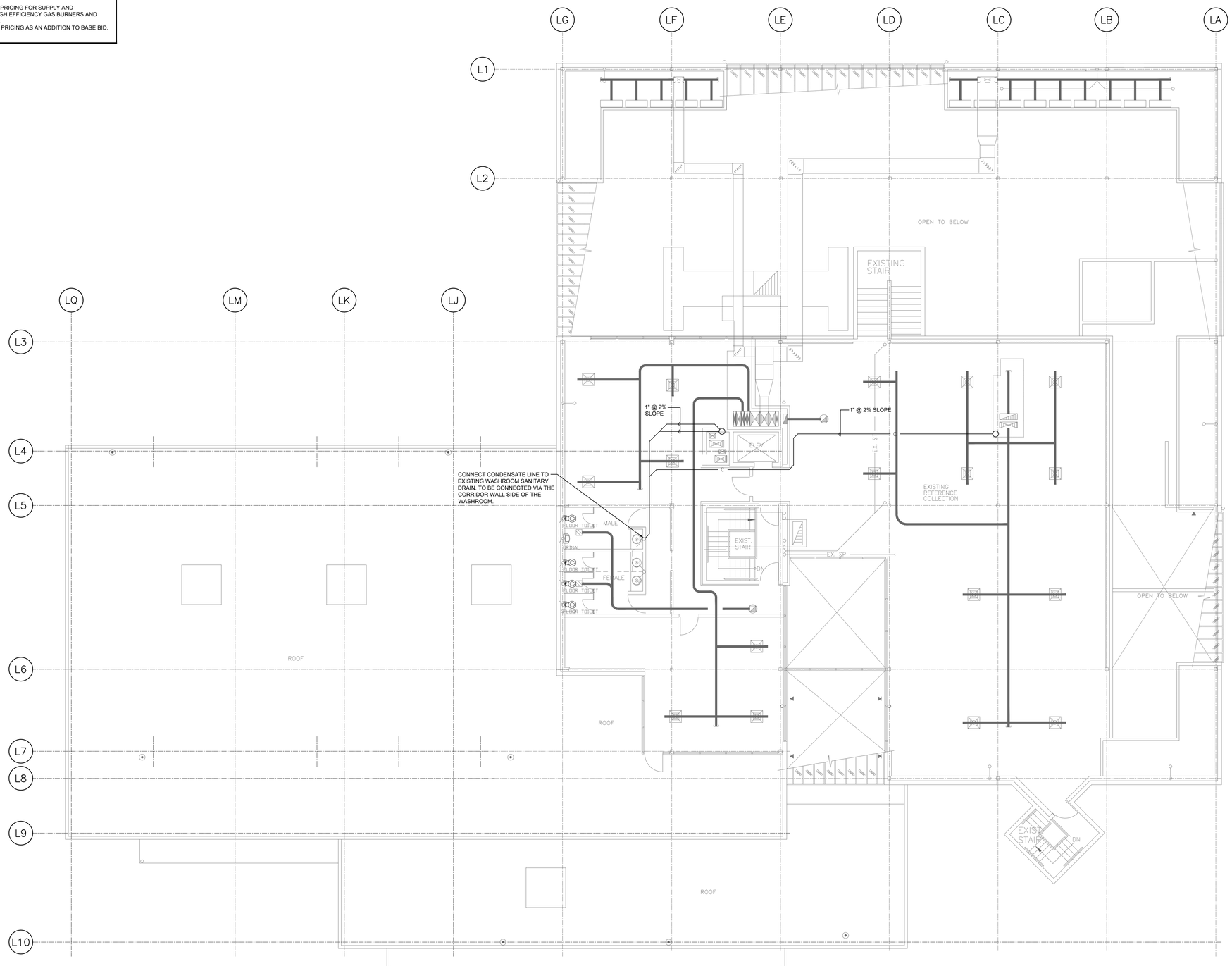
DRAWING TITLE:
ROOF PLAN - NEW WORK

PROJECT NO.	DRAWING NO.
085b-067-21	M2.02

DRAWING NOTES

SEPARATE PRICING NOTES:

1. INCLUDE SEPARATE PRICING FOR SUPPLY AND INSTALLATION OF HIGH EFFICIENCY GAS BURNERS AND CONDENSATE LINES.
2. PROVIDE SEPARATE PRICING AS AN ADDITION TO BASE BID.



NORTH

1 / M2.03 MEZZANINE FLOOR PLAN W/ CONDENSATE LINES

SCALE: NTS

AME Group
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T. 403-233-2333 F. 403-252-2334
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CALGARY AB, T2R 1M1

EDMONTON
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REV.	DATE	DESCRIPTION
1.	2022.08.05	ISSUED FOR REVIEW
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4.	2022.08.29	ISSUED FOR REVIEW
5.	2022.08.31	ISSUED FOR REVIEW
6.	2022.08.31	ISSUED FOR TENDER
7.	2022.09.27	ISSUED FOR ADD-001

CONSULTANT:

SEAL:

Permit to Practice No. 1000298

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
S. K. STEWART
50441
2022-09-27

PROJECT TITLE:
CITY OF SURREY - GUILDFORD LIBRARY - EQUIPMENT UPGRADES

PROJECT ADDRESS:
15105 105 AVE,
SURREY, BC
V3R 7G8

DRAWN BY	UM
CHECKED BY	MK/SS
SCALE	NTS
DATE	SEPTEMBER 27, 2022

DRAWING TITLE:
MEZZANINE PLAN WITH CONDENSATE LINES

PROJECT NO.	DRAWING NO.
085b-067-21	M2.03

Attachment No. 3 – Schedule of Quantities and Prices

F.O.B. Destination	Payment Terms: A cash discount of ____% will be allowed if invoices are paid within ___ days, or the ___ day of the month following, or net 30 days, on a best effort basis.	Ship Via:

DESCRIPTION		UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE ($)	AMOUNT ($)
1.0	**Mobilization and Demolition**				
1.1	Mobilization				
1.2	Demolition of existing Air handling units				
	Demolition of piping				
	Demolition of electrical				
				1.0 Sub-Total:	$
2.0	**New Installation**				
2.1	Equipment Cost AHU-L1 AHU-L3 AHU-L6 CU-L1 A CU-L1 B CU-L3 CU-L6				
2.2	Installation: AHU-L1 CU-L1 A CU-L1 B				
	Piping				
	Insulation				
	Electrical				
	Controls				
	Roofing				
	Craning				
	Structural				
	Hazardous Material Abatement				
2.3	Installation: AHU-L3 CU-L3				
	Piping				
	Insulation				
	Electrical				

	Controls				
	Roofing				
	Craning				
	Structural				
	Hazardous Material Abatement				
2.4	Installation: AHU-L6 CU-L6				
	Piping				
	Insulation				
	Electrical				
	Controls				
	Roofing				
	Craning				
	Structural				
	Hazardous Material Abatement				
				2.0 Sub-Total:	$
3.0	**Others**				
3.1	Balancing				
3.2	Startup and commissioning including manufacturer's representative and technicians				
3.3	Final documentations and close out				
3.4	Include all works described in the Plans and Specifications that are not included in any other regular unit price payment items listed herein, please state:				
	a.) _____				
	b.) _____				
	c.) [add rows as necessary]				
				3.0 Sub-Total:	$
				Subtotal (add 1.0, 2.0, 3.0):	$
				GST (5%):	$
CURRENCY: Canadian				**TOTAL QUOTATION PRICE:**	**$**

All Addenda will become part of the Contract Documents.

- END OF ADDENDUM -