

**ADDENDUM #6**

This Addendum hereby forms part of the RFP. The purpose of this Addendum is to provide a mechanical addendum.

For any questions, please contact:

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Project: Jordie Lunn Bike Park – Community Building  
Address: 2990 Irwin Road, Lang  
Architect: Nick Bray Architecture

Document No. MADD-01  
Project Number: 222171  
Date of Issue: July 11, 2022  
Issued By: Jordan Lynn

Distribution: Nick Bray                  Nick Bray Architecture  
                  Helen Jones                Nick Bray Architecture  
                  Nick Salvador                Victoria Design Group

Purpose: Economizer Mixing box control

Include the following changes to the project bid amount and schedule.

Item	Description
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- |     |  |
|-----|--|
| 1.0 | Samsung fan coil arrangement with economizer mixing box controlled by Viconics VT8650 thermostat using Samsung thermostat adapter. Refer to attached drawings. |
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End of Mechanical Addendum

Written: Jordan Lynn  
File: 222171 Jordie Lunn Clubhouse – MADD-01

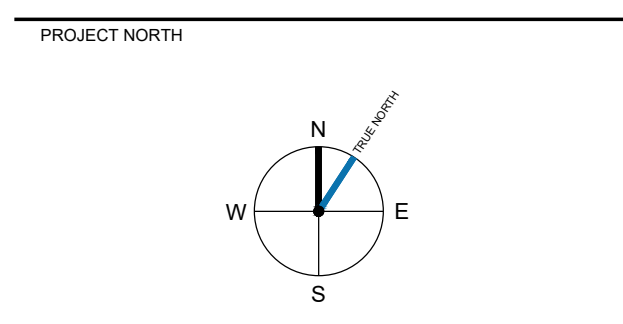
- KEYED DRAWING NOTES**
1. INSTALL 12"x4" FLOOR GRILLES. REFER TO GRILLE SCHEDULE.
  2. ATTACH ACOUSTICALLY LINED DUCTWORK TO BACK END OF GRILLE AND TRANSFER THROUGH WALL. REFER TO TRANSFER AIR SOUND TRAP DETAIL.
  3. ENERGY RECOVERY VENTILATOR INSTALLED ABOVE WASHROOM DROPPED CEILING. ACCESS DOOR REQUIRED IN CEILING.
  4. INSTALL MULTI-POSITION HEAT PUMP IN VERTICAL POSITION. TRANSITION OFF OF OUTLET TO 16" ACOUSTICALLY LINED SUPPLY MAIN. BOTTOM OF DUCT TO BE INSTALLED 8" ABOVE FINISHED FLOOR OR HIGHER.
  5. ANGLE LOUVER AS PER ROOF ORIENTATION. REFER TO ARCHITECTURAL PLANS FOR ANGLE.
  6. ACOUSTICALLY LINE ALL DUCTWORK WITHIN MECHANICAL CLOSET.
  7. RETURN GRILLE INSTALLED ABOVE MECHANICAL CLOSET DOORS. ATTACH ACOUSTICALLY LINED PLENUM BOX ON BACK END OF GRILLE.
  8. INSTALL AIR FILTER AT RETURN AIR INLET TO FAN COIL.

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A	11JUL2022	MADD-01
NO.	DATE	DESCRIPTION
<b>REVISIONS</b>		

3	28JUN2022	ISSUED FOR BUILDING PERMIT
2	27MAY2022	ISSUED FOR TENDER
1	22APR2022	ISSUED FOR COORDINATION
NO.	DATE	DESCRIPTION
<b>DRAWING ISSUE</b>		



PROJECT  
**PROPOSED  
 COMMUNITY BUILDING  
 JORDIE LUNN BIKE  
 PARK**

2990 IRWIN ROAD  
 LANGFORD, B.C.

SHEET TITLE  
**HVAC**

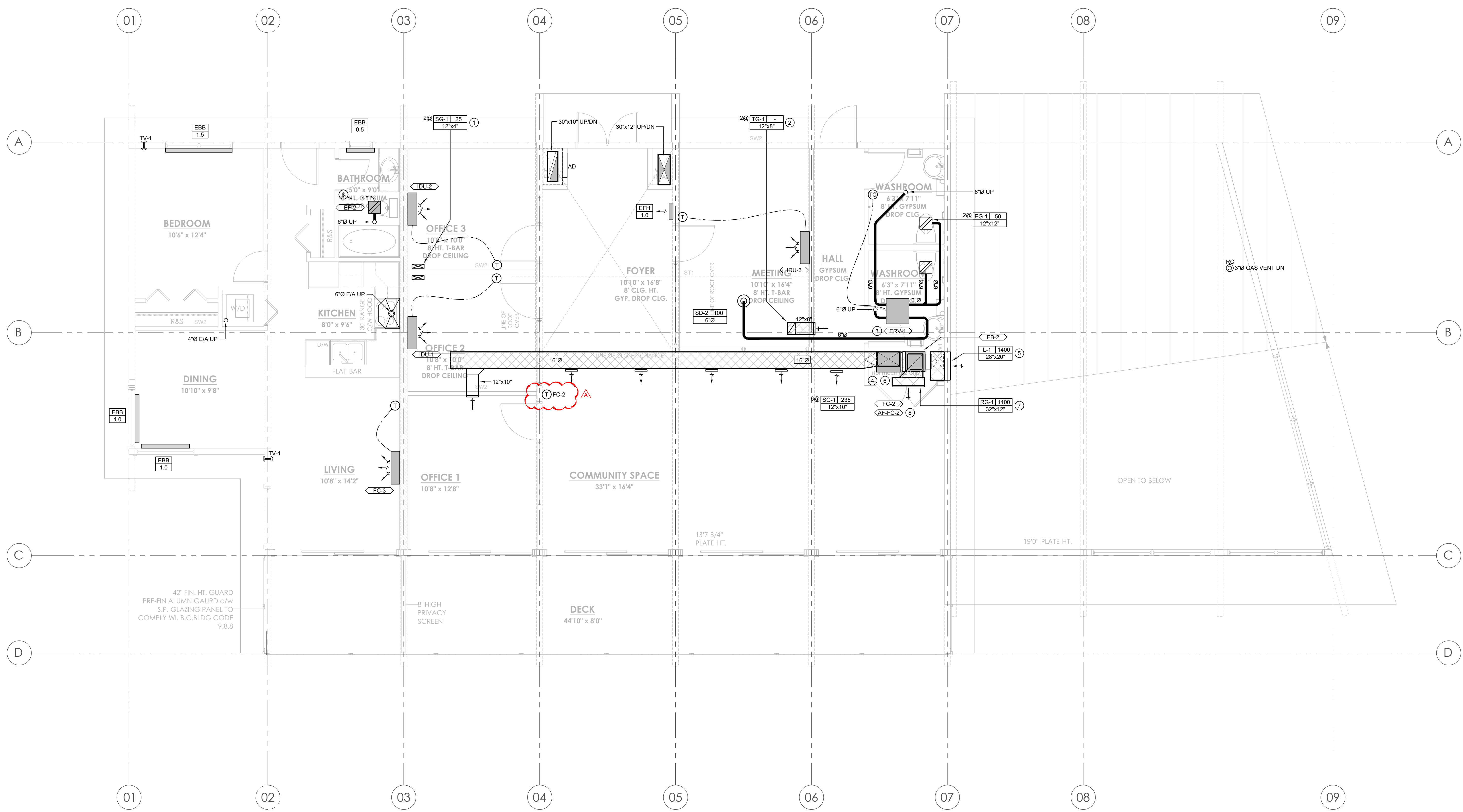
**SECOND FLOOR PLAN**

DESIGNED: JL APPROVED: KJ

AVALON PROJECT NO. 222171 SCALE AS NOTED

SHEET NUMBER

**M-2.02**



**SECOND FLOOR PLAN - HVAC**  
 SCALE: 1/4"=1'-0"

File: S:\2\_Projects\1\_Current\CAD\222171\_Jordie Lunn Chabhouse\_T\_Drawing\222171\_Jordie Lunn Chabhouse.dwg Plot Time: 10:09, 11 Jul 2022 - Copyright 2022, Avalon Mechanical Consultants Ltd.

KITCHEN HOOD SCHEDULE									
TAG	SERVICE	MAKE	MODEL	TYPE	SIZE	E/A AIRFLOW	S/A AIRFLOW	NOTES	
KH-1	OVEN, RANGE, AND FRYERS	CAPTIVEAIRE	5412 SND-2-PSP-F	TYPE 1	128"x54"	3,135 CFM	1,565 CFM	1 - 12	

NOTES:  
1. PRE-INSTALLATION CONSULTATION/WALKTHROUGH AND COMMISSIONING BY CAPTIVEAIRE REPRESENTATIVE  
2. FACTORY INSTALLED STANDOFF ON TOP, BOTH SIDES, AND BACK OF HOOD FOR 0" CLEARANCE REQUIREMENTS.  
3. PROVIDE REMOVABLE STAINLESS STEEL SKIRT AROUND TOP OF KITCHEN HOOD  
4. SUPPLY AIR PLENUM ON FRONT OF HOOD  
5. FOUR UL LISTED HIGH TEMPERATURE LIGHT FIXTURES INSTALLED IN HOOD  
6. EIGHT CAPTRATE SOLO GREASE FILTERS  
7. EXTERNAL WALL MOUNTED FIRE SUPPRESSION UTILITY CABINET  
8. GREASE DRAIN WITH REMOVABLE CUP AND CONDENSATE BAFFLES  
9. POWERED AND CONTROLLED VIA DCV  
10. KITCHEN HOOD WITH DEMAND CONTROLLED VENTILATION, HOOD MOUNTED CONTROLLER, ROOM AND DUCT TEMPERATURE SENSORS  
11. PROVIDE STAINLESS STEEL SHROUD FROM TOP OF HOOD TO UNDERSIDE OF CEILING  
12. TAPERED HOOD TRANSITIONS FROM 12" (FRONT) TO 24" (BACK) DEEP

ELECTRIC DUCT HEATER SCHEDULE												
TAG	SERVICE	SIZE	CAPACITY	MAKE	MODEL	AIRFLOW	POWER	CONTROLS				NOTES
								SUPP.	INST.	CTRL.	TYPE	
EDH-1	SUPPLY FAN SF-1	10"Ø	6KW	THERMOLEC	SC	400CFM	208/3 6KW	M	M	M	DTS	1,2,3,4,5,6
EDH-2	SUPPLY FAN SF-2	8"Ø	3KW	THERMOLEC	SC	200CFM	208/1 3KW	M	M	M	DTS	1,2,3,4,5,6

NOTES:  
1. AIR PROVING SWITCH  
2. AUTO RESET HIGH LIMIT TEMPERATURE CUTOUT  
3. SCR MODULATING COIL  
4. SLIP-IN OPEN COIL  
5. PROVIDE DUCT TRANSITIONS TO SUIT COIL SIZE  
6. DUCT STAT TO MAINTAIN S/A TEMPERATURE AT 55°F

CONTROL TYPE:  
DTS - DUCT TEMPERATURE SENSOR

HEAT PUMP SCHEDULE												
TAG	SERVICE	SIZE	NOMINAL CAPACITY	MAKE	MODEL	WEIGHT	POWERLOAD	CONTROLS				NOTES
								SUPP.	INST.	CTRL.	TYPE	
CU-1	FAN COIL FC-1	-	48MBH	SAMSUNG	AC048JXADCH/AA	194LB	208/1 26.4MCA 40MOP	M	M	M	-	1
CU-2	FAN COIL FC-2	-	48MBH	SAMSUNG	AC048JXADCH/AA	194LB	208/1 26.4MCA 40MOP	M	M	M	-	1
CU-3	FAN COIL FC-3	-	12MBH	SAMSUNG	RXS12YBT	70LB	208/1 12.5MCA 20MOP	M	M	M	-	1
FC-1	BIKE RENTAL	1,400CFM @ 0.5"ESP	48MBH	SAMSUNG	AC048KNZDCH/AA	163LB	POWERED VIA CU-1	M	M	M	PT	4.6
FC-2	COMMUNITY SPACE	1,400CFM @ 0.5"ESP	48MBH	SAMSUNG	AC048KNZDCH/AA	163LB	POWERED VIA CU-2	M	M	M	PT	4.6
FC-3	RESIDENTIAL LIVING	400CFM @ 0.1"ESP	12MBH	SAMSUNG	RNS12YBT	20LB	POWERED VIA CU-3	M	M	M	PT	3.5
ODU-1	INDOOR UNITS IDU-1, IDU-2, & IDU-3	-	36MBH	SAMSUNG	AJ036BKJCH/AA	169LB	208/1 28MCA 30MOP	M	M	M	-	2
IDU-1	OFFICE 2	400CFM @ 0.1"ESP	12MBH	SAMSUNG	AR12BSFCMWNKNCV	20LB	POWERED VIA ODU-1	M	M	M	PT	3.5
IDU-2	OFFICE 3	400CFM @ 0.1"ESP	12MBH	SAMSUNG	AR12BSFCMWNKNCV	20LB	POWERED VIA ODU-1	M	M	M	PT	3.5
IDU-3	MEETING ROOM	400CFM @ 0.1"ESP	12MBH	SAMSUNG	AR12BSFCMWNKNCV	20LB	POWERED VIA ODU-1	M	M	M	PT	3.5

NOTES:  
1. UNIT MOUNTED ON SLEEPERS AT GRADE  
2. UNIT MOUNTED ON ROOF SLEEPERS WITH SPRING ISOLATORS  
3. 24/7 PROGRAMMABLE TOUCH SCREEN THERMOSTAT  
4. EXTERNAL CONDENSATE PUMP LITTLE GIANT VCMA-15  
5. ASPEN PUMP - MINI BLANC EXTERNAL CONDENSATE PUMP  
6. CONTROLLED BY SEPARATE VICONICS VT8650 THERMOSTAT USING SAMSUNG THERMOSTAT ADAPTER. VICONICS THERMOSTAT SHALL ALSO CONTROL MIXING BOX ECONOMIZER

CONTROL TYPE:  
PT - 7-DAY PROGRAMMABLE THERMOSTAT (LOW VOLTAGE)

FAN SCHEDULE														
TAG	SERVICE	TYPE	SPEED DRIVE	SIZE	MAKE	MODEL	SOUND	WEIGHT	POWERLOAD	CONTROLS				NOTES
										SUPP.	INST.	CTRL.	TYPE	
EF-A	VARIOUS WASHROOMS	CEILING FAN	-	100CFM @ 0.25"ESP	PANASONIC	FV-05-11VQ1	<0.3 SONES	10LB	120/1 FRAC.	E	E	E	PB	1,2,3,4
EF-1	EVENT STORAGE	CEILING FAN	-	100CFM @ 0.25"ESP	PANASONIC	FV-05-11VQ1	<0.3 SONES	10LB	120/1 FRAC.	E	E	E	PB	1,2,3,4
EF-2	RESIDENTIAL WASHROOM	CEILING FAN	-	100CFM @ 0.25"ESP	PANASONIC	FV-05-11VQ1	<0.3 SONES	10LB	120/1 FRAC.	M	M	M	IOS	1,2,3,4
SF-1	MAIN FLOOR VENTILATION	INLINE FAN	EC	400CFM @ 0.5"ESP	GREENHECK	CSP-A710-VG	2.0 SONES	37LB	120/1 FRAC.	E	E	E	TC	1
KEF-1	KITCHEN EXHAUST FAN	ROOFTOP FAN	DCV	3,135CFM @ 1.5"ESP	CAPTIVEAIRE	DUI180HFA	19.8 SONES	222LB	208/3 2HP	E	E	E	DCV	1,3,6,7,8,9,10,11,12,13
CF-1	BIKE RENTAL	CEILING FAN	-	-	BIGASS FANS	I6 60"Ø	<2 SONES	35LB	120/1 FRAC.	E	E	E	SC	5

NOTES:  
1. FAN MOUNTED SPEED CONTROL  
2. DESIGNER GRILLE  
3. GRAVITY BACKDRAFT DAMPER  
4. ON/OFF CONTROL BY WALL PUSH BUTTON COUNTDOWN TIMER  
5. ON/OFF CONTROL BY WALL MOUNT SPEED CONTROLLER  
6. GREASE BOX WITH DRIP CLIP  
7. VARIABLE SPEED CONTROL  
8. THERMAL OVERLOAD PROTECTION  
9. POWERED AND CONTROLLED VIA DCV  
10. NEMA 3R SAFETY DISCONNECT SWITCH  
11. FAN OPERATION CONTROLLED BY KITCHEN HOOD KH-1  
12. RESTAURANT MODEL  
13. DIRECT DRIVE CONSTRUCTION (NO BELT/S/PULLEYS)  
14. SET AT A CONTINUOUS LOW SPEED (45CFM) PROVIDE MOTION SENSOR (PANASONIC FV-MSVK1) TO INCREASE TO HIGH SPEED. ON/OFF SWITCH IN CLOSET CLEARLY MARKED "PRINCIPAL VENTILATION EXHAUST FAN"

CONTROL TYPE:  
PB - WALL MOUNT PUSH BUTTON COUNTDOWN TIMER  
TC - WALL MOUNT PROGRAMMABLE DIGITAL 24/7 TIMECLOCK  
DCV - DIRECT CONTROL VENTILATION  
IOS - INTEGRAL OCCUPANCY SENSOR (PART OF FAN)  
SC - SPEED CONTROL

FILTER SCHEDULE											
TAG	SERVICE	FILTER TYPE	MAKE	MODEL	CAPACITY	SIZE	EFFICIENCY	PRESSURE DROP	HOUSING SIZE	WEIGHT	NOTES
AF-FC-1	FAN COIL FC-1	MERV 8	DAFCO	400	2,000 CFM	24"x24"x2"	95% @ 0.3 MICRON	0.13" W.C. @ 1,400 CFM	1 FILTER X 1 FILTER	-	1,2
AF-FC-2	FAN COIL FC-2	MERV 8	DAFCO	400	2,000 CFM	24"x24"x2"	95% @ 0.3 MICRON	0.13" W.C. @ 1,400 CFM	1 FILTER X 1 FILTER	-	1,2
AF-SF-1	VENTILATION SUPPLY FAN SF-1	MERV 8	DAFCO	400	650 CFM	16"x12"x1"	95% @ 0.3 MICRON	0.18" W.C. @ 400 CFM	1 FILTER X 1 FILTER	-	1,2

NOTES:  
1. CHANGE FILTER WHEN PRESSURE DROP DOUBLES  
2. FABRICATE HOUSING ON SITE

MAKE UP AIR UNIT SCHEDULE															
TAG	SERVICE	SIZE	MAKE	MODEL	INPUT	OUTPUT	MOTOR SIZE	SOUND	WEIGHT	POWERLOAD	CONTROLS				NOTES
											SUPP.	INST.	CTRL.	TYPE	
MAU-1	KITCHEN HOOD	2,825CFM @ 0.5"ESP	CAPTIVEAIRE	A2-D 250-20D	140MBH	129MBH	2 HP	10 SONES	786LB	208/3 10.4MCA 15MOP	M	E	E	DCV	1 - 11

NOTES:  
1. INSULATED ROOF CURB  
2. WEATHERHOOD WITH ALUMINUM BIRDSCREEN  
3. AIR FILTERS: 2" PLEATED MERV 8  
4. MOTORIZED CONTROL DAMPER  
5. STAINLESS STEEL HEAT EXCHANGER  
6. DIRECT GAS FIRE BURNERS  
7. HORIZONTAL ORIENTATION  
8. INSULATED GALVANIZED HOUSING, SERVICE RECEPTACLE  
9. THERMOSTAT IN KITCHEN (ADJUSTABLE)  
10. 2 HP FAN MOTOR  
11. RATED FOR OUTDOOR INSTALLATION NEMA 4X ENCLOSURE

CONTROL TYPE:  
DCV - DIRECT CONTROL VENTILATION

ENERGY RECOVERY VENTILATOR SCHEDULE													
TAG	SERVICE	SUPPLY SIZE	EFFICIENCY	EXHAUST SIZE	MAKE	MODEL	WEIGHT	POWERLOAD	CONTROLS				NOTES
									SUPP.	INST.	CONN.	TYPE	
ERV-1	MEETING ROOM	100CFM @ 0.5"ESP	73%	100CFM @ 0.5"ESP	RENEWAIRE	EV PREMIUM M	36LB	120/1 10MCA 10MOP	M	M	M	TC	1,2,3,4

NOTES:  
1. 1" INSULATED HOUSING, DOUBLE WALL CONSTRUCTION  
2. 120/1 RECEPTACLE IN CEILING SPACE REQUIRED  
3. INTEGRAL MERV 8 SPUN POLYESTER FILTERS

CONTROL TYPE:  
TC - TIMECLOCK

GRILLE / DIFFUSER / LOUVER SCHEDULE					
TAG	MAKE	MODEL	FINISH	MOUNTING	NOTES
SD-1	EH PRICE	RPD	WHITE	DUCT	-
SG-1	EH PRICE	S20L	WHITE	DUCT/WALL	1
SG-2	EH PRICE	LF615A	WHITE	FLOOR	1
SG-3	EH PRICE	ND 12"Ø	WHITE	DUCT	1
RG-1	EH PRICE	80	WHITE	WALL	-
EG-1	EH PRICE	80	WHITE	CEILING	-
L-1	EH PRICE	DE639	WHITE	WALL	2

NOTES:  
1. INTEGRAL BALANCING DAMPER  
2. BIRD SCREEN

PUMP SCHEDULE							
TAG	SERVICE	SIZE	MAKE	MODEL	POWERLOAD	WEIGHT	NOTES
CP-1	HOT WATER RECIRCULATION	1GPM @ 4'	TACO	006E3	120/1 FRAC.	6 LB	1,2,3,4

NOTES:  
1. POTABLE WATER COMPATIBLE MATERIALS AND CONSTRUCTION  
2. PUMP TO BE PROVIDED WITH HOT WATER HEATER  
3. ON/OFF CONTROL BY HOT WATER HEATER  
4. THREE SPEED SETTING ECM MOTOR

ECONOMIZER MIXING BOX SCHEDULE								
TAG	MAKE	MODEL	BLADES	BLADE PROFILE	SPRING RETURN	FAIL POSITION	POWER	NOTES
EB-1	CANFAB	8412-MB01-TP-BK-###	PARALLEL	EXTRUDED	CLOSED	CLOSED	120/1 FRAC	1,2,3,4

NOTES:  
1. THERMOSTAT CONTROL (VT8650 VICONICS)  
2. FULLY MODULATING CONTROL SYSTEM  
3. RETURN AIR AND FRESH AIR CONTROL DAMPERS  
4. 1" INTERNAL INSULATED HOUSING

EXPANSION TANK SCHEDULE								
TAG	SERVICE	SIZE	ACCEPT VOL.	PRE-CHARGE	MAKE	MODEL	WEIGHT	NOTES
ET-1	DOMESTIC HOT WATER SYSTEM	4GAL	3.2GAL	56PSI	AMTROL	ST-12	10LB	1

NOTES:  
1. DRY WEIGHT INDICATED

DOMESTIC HOT WATER HEATER SCHEDULE									
TAG	SERVICE	SIZE	MAKE	MODEL	INPUT	OUTPUT	POWERLOAD	WEIGHT	NOTES
HWT-1	DOMESTIC HOT WATER (COMMERCIAL)	100 USG	AO SMITH	BTH-250	250MBH	245MBH	120/1	523LB	1,2,3,4,5,6,7,8

NOTES:  
1. TEMPERATURE AND PRESSURE RELIEF VALVE  
2. POWER VENT, DIRECT VENT  
3. CONDENSATE NEUTRALIZER KIT  
4. 55-1/2" TALL  
5. SHIPPING WEIGHT INDICATED  
6. 160 PSI MAXIMUM OPERATING PRESSURE  
7. INTEGRAL MULTI-UNIT STAGING CONTROL  
8. MODULATING BURNER (5:1 TURNDOWN)

SUMP PUMP SCHEDULE											
TAG	SERVICE	SIZE	PUMP MAKE	PUMP MODEL	POWERLOAD	PUMP WEIGHT	PUMP ARRANGEMENT	SUMP DIA.	SUMP DEPTH	SUMP MATERIAL	NOTES
SP-1	SANITARY DRAINAGE	28 GPM @ 20'	LIBERTY	XLE71M-2	120/1 3/4HP	62 LB	DUPLEX	36"	8 FT	CONCRETE	1,2,3,4

NOTES:  
1. 36" MANHOLE ACCESS, WITH LADDER RUNGS  
2. FLOATS, CHECK VALVE, GATE VALVE, AND CONTROL PANEL WITH ALARM  
3. PUMP LIFTING RAILS  
4. EXPLOSION PROOF SUMP PUMP



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**DRAWING ISSUE**

SEAL  
PROJECT NO.  
PROJECT TITLE

**PROPOSED  
COMMUNITY BUILDING  
JORDIE LUNN BIKE  
PARK**

**2990 IRWIN ROAD  
LANGFORD, B.C.**

**MECHANICAL  
SCHEDULES**

DESIGNED	APPROVED
JL	KJ

AVAILON PROJECT NO.	SCALE
222171	AS NOTED

SHEET NUMBER

**M-4.01**