

MECHANICAL DRAWING LIST		
DRAWINGS NO.	DESCRIPTION	SCALE
M000	MECHANICAL COVER SHEET	N.T.S.
M001	MECHANICAL MOTORLIST	N.T.S.
M002	MECHANICAL SCHEDULES	N.T.S.
M101	MECHANICAL ROOF PLAN	1:100
M102	MECHANICAL FOUNDATION PLAN	1:100
M201	PLUMBING PLAN LEVEL-1	1:100
M202	PLUMBING PLAN LEVEL-2	1:100
M401	HVAC PLAN LEVEL-1	1:100
M402	HVAC PLAN LEVEL-2	1:100
M701	MECHANICAL SCHEMATICS I	N.T.S.
M702	MECHANICAL SCHEMATICS II	N.T.S.
M703	MECHANICAL SCHEMATICS III	N.T.S.
M801	MECHANICAL DETAILS	N.T.S.
M802	MECHANICAL DETAILS	N.T.S.

BUILDING LOADS				
DESCRIPTION	LOAD	UNITS	PIPE SIZE (MM)	NOTES
FIRE PROTECTION	500	GPM	1500	-
SANITARY	43.5	FU	1000 @1%	N/A
STORM	7.875	L	-	-
DOMESTIC WATER	531.9	FU	1000	2

NOTES:

- STORM LOAD BASED ON 10MM/15MIN RAINFALL INTENSITY
- DOMESTIC WATER IN WATER ENTRY ROOM AND SERVING FIXTURES IN BUILDING SIZED TO ASPE UNIFORM PRESSURE LOSS METHOD, BASED ON MAXIMUM SFT/S USING COPPER PIPE UNLESS NOTED OTHERWISE.

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

FIRE PROTECTION NOTES:

- THE SPRINKLER CONTRACTOR SHALL PROVIDE A COMPLETE FIRE SUPPRESSION SYSTEM FOR THE BUILDING IN ACCORDANCE WITH THE MECHANICAL SPECIFICATION, NFPA 13-2007 STANDARD AND THE BRITISH COLUMBIA BUILDING CODE 2018.
- THE BUILDING CODE REPORT FORMS AN INTEGRAL PART OF THE FIRE SUPPRESSION SYSTEM REQUIREMENTS AND SHALL FORM PART OF THE SPRINKLER CONTRACTOR'S SCOPE OF WORK RELATED TO THE FIRE SUPPRESSION SYSTEM.
- THE FIRE SUPPRESSION SYSTEM INFORMATION ON THESE DRAWINGS ARE FOR GENERAL SCOPE OF WORK AND COORDINATION DURING DESIGN. THE SYSTEM IS A DESIGN BUILD CONTRACT AS OUTLINED ON THE DRAWINGS AND SPECIFICATIONS.

SYSTEM DESIGN:

- THE SPRINKLER CONTRACTOR SHALL RETAIN, ON BEHALF OF THE OWNER, A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA TO PROVIDE A COMPLETE DESIGN IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. THE SPRINKLER CONTRACTOR'S ENGINEER WILL BE THE "REGISTERED PROFESSIONAL OF RECORD" FOR THE FIRE SUPPRESSION SYSTEMS (PART 5 OF THE LETTERS OF ASSURANCE).
- THE FIRE SUPPRESSION SYSTEM SHALL BE HYDRAULICALLY DESIGNED.
- INCORPORATE ALL EQUIVALENCY REQUIREMENTS CONTAINED IN THE CODE CONSULTANT'S REPORT.
- THE SPRINKLER CONTRACTOR'S ENGINEER WILL PROVIDE FIELD REVIEWS AND WRITTEN REPORTS ON A MONTHLY BASIS THROUGHOUT THE PROJECT.
- REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS. COORDINATE ROUTING OF ALL PIPING WITH SUB-TRADES BEFORE START OF SPRINKLER SHOP DRAWINGS.

SHOP DRAWINGS:

- SUBMIT PRELIMINARY PIPE AND SPRINKLER LAYOUT TO CONSULTANT FOR REVIEW BEFORE START OF HYDRAULIC CALCULATIONS.
- SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS FOR SPRINKLER PERMIT APPLICATION. THESE DRAWINGS SHALL INDICATE ALL RELEVANT INFORMATION REQUIRED BY APPLICABLE NFPA STANDARDS AND FIRE DEPARTMENT REQUIREMENTS. SUBMIT DRAWINGS TO THE CONSULTANT FOR REVIEW PRIOR TO SUBMITTAL.

COORDINATION AND INSTALLATION:

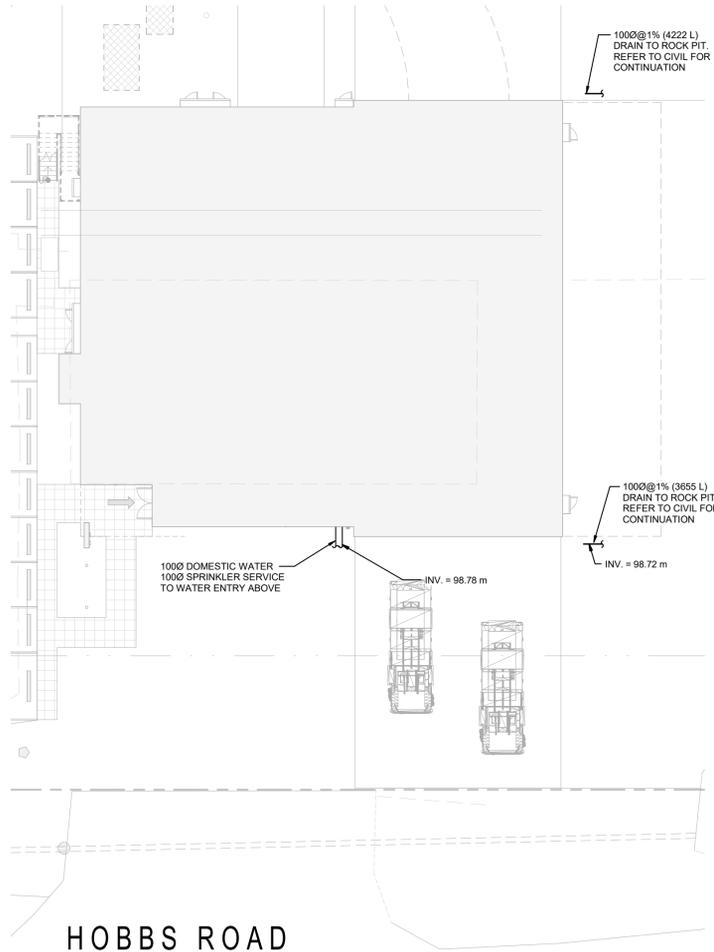
- ALL SYSTEM COMPONENTS (PIPING, FITTINGS, DEVICES, ETC.) SHALL BE U.L. APPROVED AND U.L.C. LISTED.
- PROVIDE SEISMIC SWAY BRACING IN ACCORDANCE WITH NFPA 13 AND THE BRITISH COLUMBIA BUILDING CODE.
- DO NOT INSTALL SPRINKLER PIPING UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ARCHITECT.
- COORDINATION OF PIPE ROUTING, SLEEVING, CORING AND THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR, SUPPRESSION SYSTEM.
- COORDINATE PIPE ROUTING WITH THE MECHANICAL CONTRACTOR AND OTHER SUBTRADES ON SITE TO AVOID CONFLICT WITH OTHER SERVICES.
- SPRINKLER PIPING LOCATIONS SHALL NOT BE MODIFIED WITHOUT THE APPROVAL OF THE ARCHITECT. PROCEED ONLY AFTER SHOP DRAWINGS HAVE BEEN REVIEWED BY THE CONSULTANT AND ARCHITECT. PIPING IS EXPOSED, DO NOT DEVIATE FROM REVIEWED SHOP DRAWINGS WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
- ROUTE SPRINKLER LINES IN DROP CEILINGS & BULKHEADS. REFER TO SPRINKLER ARCHITECTURAL DRAWINGS FOR EXTENT OF DROP CEILINGS & BULKHEADS.
- PROVIDE ALL ANCILLARY DEVICES AND BAFFLES REQUIRED TO MEET NFPA STANDARDS.
- EXPOSED PIPING SHALL BE MADE READY FOR PAINTING AS SPECIFIED IN THE PAINTING SPECIFICATIONS.
- PROVIDE DRAIN AND TEST LOCATIONS FOR EACH SPRINKLER ZONE.

SPRINKLER HEADS:

- ALL SPRINKLER HEADS USED ON THE PROJECT SHALL BE QUICK-RESPONSE, UNLESS NOTED OTHERWISE.
- SPRINKLER HEADS USED ON THIS PROJECT SHALL BE AS NOTED ON THE DRAWINGS AND SPECIFICATIONS PROVIDED. ANY ALTERNATES SHALL BE REVIEWED AND ACCEPTED BY THE CONSULTANT PRIOR TO INSTALLATION.
- SPRINKLER HEADS ARE TO BE COORDINATED WITH ACCESS PANELS AND LIGHTING IN AREAS WITH NO T-BAR CEILING. PROVIDE SHOP DRAWINGS FOR ACCESS PANELS INCLUDING LOCATION WITH RESPECT TO SPRINKLERS, LIGHTING AND DIFFUSERS / GRILLES.

FIRE EXTINGUISHERS:

- PROVIDE FIRE EXTINGUISHERS TO NFPA 10 AND THE BRITISH COLUMBIA FIRE CODE. FIRE EXTINGUISHERS TO BE INSTALLED IN FULLY RECESSED CABINETS. COORDINATE LOCATIONS AND MOUNTING DETAILS WITH THE ARCHITECT.



GENERAL PLUMBING		FIRE SUPPRESSION	
	DOMESTIC COLD WATER (DCW)		WET SPRINKLER
	DOMESTIC HOT WATER (DHW)		DRY SPRINKLER
	DOMESTIC HOT WATER RECIRC. (DHW-R)		PRE-ACTION SPRINKLER
	SANITARY VENTING		FIRE MAIN TO STANDPIPE
	STORM DRAINAGE		UPRIGHT SPRINKLER HEAD
	FOOTING DRAINAGE (DRAIN TILE)		CONCEALED SPRINKLER HEAD
	NATURAL GAS		SPRINKLER HEAD W/ PROTECTIVE CAGE
	CONTROL WIRE		PENDANT & UPRIGHT SPRINKLER HEADS
	ABOVE GRADE PIPE CLEAN-OUT		SIDEWALL SPRINKLER HEAD
	BELOW GRADE PIPE CLEAN-OUT		WALL RECESSED SIAMESE CONNECTION
	HOSE BIBB		FIRE STANDING SIAMESE CONNECTION
	FLOOR DRAIN		FIRE HOSE CABINET
	FUNNEL FLOOR DRAIN		FIRE HOSE VALVE
	ROOF DRAIN		FIRE SYSTEM ALARM VALVE
	AREA DRAIN		FLOW SWITCH
	CATCH BASIN		PRESSURE SWITCH
	SITE MANHOLE		FIRE EXTINGUISHER
	OPEN DRAIN		FIRE EXTINGUISHER TYPE 'K'
			RECESSED FIRE EXTINGUISHER
			RECESSED FIRE EXTINGUISHER TYPE 'K'
			FIRE SEPARATION - 0.0 HR RATING
			FIRE SEPARATION - 1.0 HR RATING
			FIRE SEPARATION - 1.5 HR RATING
			FIRE SEPARATION - 2.0 HR RATING
GENERAL SYMBOL			
	DIRECTION OF FLOW		SLOPED PIPE OR DUCT
	PIPE DROP		PIPE RISE
	PIPE TEE DOWN		PIPE TEE UP
	PIPE SLEEVE		PIPE ANCHOR
	PIPE UNION		HEAT TRACE
	FLEXIBLE CONNECTION		EXPANSION JOINT
	ISOLATION VALVE (NORMALLY OPEN)		ISOLATION VALVE (NORMALLY CLOSED)
	CHECK VALVE		STRAINER
	BALANCING VALVE		BALANCING VALVE W/ TEST PORTS
	2-WAY CONTROL VALVE		3-WAY CONTROL VALVE
	PRESS. INDEPENDENT CONTROL VALVE		PRESSURE REDUCING VALVE
	PRESSURE REDUCING HOSE CONNECTION		BACKFLOW PREVENTER
	RELIEF VALVE		STEAM TRAP
	SOLENOID VALVE		AUTOMATIC AIR VENT
	SEISMIC GAS SHUT-OFF VALVE		EMERGENCY GAS SHUT-OFF VALVE
	VAV BOX TAG		THERMOMETER
	GRILLE/DIFFUSER TAG		TEMPERATURE GAUGE
	NECK/GRILLE SIZE		PRESSURE GAUGE
	RADIANT PANEL TAG		PUMP
	FLUID FLOW (GPM OR L/S)		
	CAPACITY (BTU OR KW)		
	MECHANICAL ITEM TO BE DEMOLISHED		
GENERAL ANNOTATION			
	KEYED NOTE		
	DRAWING REVISION		
	DETAIL NUMBER		
	DRAWING NUMBER		
	SECTION NUMBER		
	DRAWING NUMBER		
	EQUIPMENT/FIXTURE TAG		
	VAV BOX TAG		
	MIN / MAX AIR VOLUME (CFM OR L/S)		
	GRILLE/DIFFUSER TAG		
	NECK/GRILLE SIZE		
	AIR VOLUME (CFM OR L/S)		
	RADIANT PANEL TAG		
	FLUID FLOW (GPM OR L/S)		
	CAPACITY (BTU OR KW)		
	MECHANICAL ITEM TO BE DEMOLISHED		
SYSTEM MONITORING			
	CO ₂ SENSOR		
	NITROGEN OXIDE SENSOR		
	THERMOSTAT		

1 Site Plan
M000 SCALE: 1:200

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701 JOHNSON ST VICTORIA BC, V8W 1A8
VANCOUVER 1.604.684.5995 F.604.684.5993
200 - 618 SMITH ST VANCOUVER BC, V6B 1E3
CALGARY 1.403.255.2333 F.403.252.2334
710 - 1122 4TH ST SW CALGARY AB, T2R 1A1
EDMONTON 1.403.255.2333 F.403.252.2334
1 - 300 KING ST S PRUCE GROVE AB, T7X 3C4

NO.	DATE	DESCRIPTION
3	2022-07-18	ISSUED FOR TENDER
2	2022-05-20	ISSUED FOR COSTING
1	2022-03-04	ISSUED FOR BP

SEAL



401 - 1245 Esplanade Rd. Victoria, BC V8A 3P2
250 475 2702 studpa.ca

PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE
MECHANICAL COVER SHEET

DATE	PROJECT NO.	SCALE	SHEET NO.
2022 03 04	145a-004-20	NTS00	M000
DRAWN BY: SW			

MECHANICAL MOTORLIST																						
UNIT NUMBER	UNIT DESCRIPTION	QTY	UNIT LOCATION	ELECTRICAL LOAD				VOLT	PH	EQUIPMENT			STARTER			CONTROL				NOTES		
				MCA	FLA	KW	HP			S	I	C	S	I	C	TYPE	S	I	C		TYPE	
	VRV OUTDOOR UNITS																					
CU-001	CONDENSING UNIT	1	BUILDING EXTERIOR	57.53				208	3	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
BC-1	BRANCH SELECTOR	1	CORRIDOR 101	1.19				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
	VRV FAN COIL UNIT (DX)																					
FC-001	WALL MOUNTED FAN COIL	1	TRAINING/MEETING ROOM	0.24				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-002	WALL MOUNTED FAN COIL	1	TRAINING/MEETING ROOM	0.24				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-003	CONCEALED DUCTED FAN COIL	1	GEAR ROOM	1.20				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-004	WALL MOUNTED FAN COIL	1	MTC ROOM	0.24				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-005	CONCEALED DUCTED FAN COIL	1	CORRIDOR	1.20				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-006	CONCEALED DUCTED FAN COIL	1	TRAINING OFFICER	1.05				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-007	WALL MOUNTED FAN COIL	1	IT ROOM	0.24				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-008	CONCEALED DUCTED FAN COIL	1	DAY ROOM	2.73				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-009	CONCEALED DUCTED FAN COIL	1	DAY ROOM	2.73				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-010	CONCEALED DUCTED FAN COIL	1	FITNESS AREA	2.73				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-011	WALL MOUNTED FAN COIL	1	DORMS	0.24				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-012	WALL MOUNTED FAN COIL	1	DORMS	0.24				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-013	WALL MOUNTED FAN COIL	1	DORMS	0.24				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FC-014	WALL MOUNTED FAN COIL	1	DORMS	0.24				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
	FORCE FLOW HEATERS																					
FFH-1	ELECTRIC FORCE FLOW HEATER	1	ENTRANCE				1.5	208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
FFH-2	ELECTRIC FORCE FLOW HEATER	1	STAIR				1.5	208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
	UNIT HEATERS																					
UH-001	ELECTRIC FAN COIL	1	APPARATUS BAY	49.66				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
UH-002	ELECTRIC FAN COIL	1	APPARATUS BAY	49.66				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
UH-003	ELECTRIC FAN COIL	1	APPARATUS BAY	49.66				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
UH-004	ELECTRIC FAN COIL	1	APPARATUS BAY	49.66				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
	ENERGY RECOVERY VENTILATOR																					
HRV-001	HEAT RECOVERY VENTILATOR	1	TRAINING/MEETING	10.80				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
HRV-002	HEAT RECOVERY VENTILATOR	1	GEAR ROOM	10.80				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
HRV-003	HEAT RECOVERY VENTILATOR	1	STORAGE 204	9.90				208	1	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
	FANS																					
EF-001	NEDERMAN EXHAUST SYSTEM	1	APPARATUS BAY				10	208	3	M	M	E	E	E	E	E	WS	M	M	M	M	BMS
EF-002	APPARATUS BAY GENERAL EXHAUST	1	APPARATUS BAY				0.5	120	1	M	M	E	E	E	E	E	MRR	M	M	M	M	RSTAT
EF-004	APPARATUS BAY WASHROOM	1	WC 118					FRAC	120	1	M	M	E	E	E	E	WS	-	-	-	-	-
EF-005	LAUNDRY ROOM BOOSTER	1	LAUNDRY ROOM					FRAC	120	1	M	M	E	E	E	E	WS	-	-	-	-	-
EF-006	WORKSHOP GENERAL EXHAUST	1	WORKSHOP					FRAC	120	1	M	M	E	E	E	E	WS	-	-	-	-	-
EF-007	DECON ROOM GENERAL EXHAUST	1	DECON					FRAC	120	1	M	M	E	E	E	E	WS	-	-	-	-	-
EF-008	SCBA ROOM GENERAL EXHAUST	1	SCBA					FRAC	120	1	M	M	E	E	E	E	WS	-	-	-	-	-
EF-009	MECH. ROOM GENERAL EXHAUST	1	MECH. ROOM					FRAC	120	1	M	M	E	E	E	E	MRR	M	M	M	M	RSTAT
EF-010	KITCHEN RAISE HOOD	2	DAYROOM					FRAC	120	1	M	M	E	E	E	E	WS	-	-	-	-	-
EF-011	SCBA2 ROOM GENERAL EXHAUST	1	SCBA2					FRAC	120	1	M	M	E	E	E	E	WS	-	-	-	-	-
EF-012	ELEC. ROOM COOLING FAN	1	ELEC. ROOM					FRAC	120	1	M	M	E	E	E	E	MRR	M	M	M	M	RSTAT
CF-001	DESTRATIFICATION FAN	1	APPARATUS BAY				1.5	208	3	M	M	E	E	E	E	E	MRR	M	M	M	M	RSTAT
CF-002	DESTRATIFICATION FAN	1	APPARATUS BAY				1.5	208	3	M	M	E	E	E	E	E	MRR	M	M	M	M	RSTAT
	DOMESTIC HOT WATER HEATERS																					
DHWT-001	DOMESTIC WATER HEATER (ELECTRIC)	1	MECHANICAL ROOM				8	208	3	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
DHWT-002	DOMESTIC WATER HEATER (ELECTRIC)	1	MECHANICAL ROOM				8	208	3	M	M	E	M	M	M	M	PCS	M	M	M	M	BMS
	PUMP																					
P-001	DOMESTIC HOT WATER RECIRC PUMP	1	MECHANICAL ROOM					FRAC	120	1	M	M	E	M	M	M	MRR	M	M	M	M	BMS
	MISCELLANEOUS																					
	THERMOSTATIC MIXING VALVE	1	MECHANICAL ROOM					FRAC	120	1	M	M	E	-	-	-	-	-	-	-	-	-
	SPRINKLER ZONE VALVES		APPARATUS BAY																			
	DRY SPRINKLER ZONE COMPRESSOR		APPARATUS BAY				2	208	3	M	M	E	-	-	-	-	-	-	-	-	-	
	SPRINKLER FLOW SWITCHES																					4
	SPRINKLER VALVE TAMPER SWITCHES																					4
	COINOX CONTROL PANEL		MECH ROOM					120	1	M	M	E	-	-	-	-	-	-	-	-	-	
	BUILDING DDC PANEL	1	MECHANICAL ROOM					120	1	M	M	E	-	-	-	-	-	-	-	-	-	
	HEAT TRACING		APPARATUS BAY					120	1	M	M	E	-	-	-	-	-	-	-	-	-	
	NEDERMAN MAGNARAIL	4	APPARATUS BAY					120	1	M	M	E	-	-	-	-	-	-	-	-	-	
	MOTORIZED DAMPERS	11	REFER TO DRAWINGS					120	1	M	M	E	-	-	-	-	-	-	-	-	-	

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 CW 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

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. 120V TO 24V HARDWIRED TRANSFORMER.
 2. PROVIDE 120V RECEPTACLE FOR PLUG-IN TRANSFORMER.
 3. PROVIDE GAS/OIL BOILER/WATER HEATER EMERGENCY STOP BUTTON AT MECH ROOM DOOR.
 4. SPRINKLER ZONE VALVES AND FLOW SWITCHES TO BE MONITORED BY THE FIRE ALARM SYSTEM.
 5. SMOKE DETECTOR IN RETURN DUCT MAIN.
 6. REQUIRES RECEPTACLE.

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 SPRUCE GROVE AB, T7X 3C4
 T: 403-255-2333 F: 403-252-2334

3	2022-07-18	ISSUED FOR TENDER
2	2022-05-20	ISSUED FOR COSTING
1	2022-03-04	ISSUED FOR BIP

NO.	DATE	DESCRIPTION
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STUDIO PA
 PRAXIS ARCHITECTS INC.

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PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
 QUALICUM BEACH BC
 V9K 2B2

SHEET TITLE
MECHANICAL MOTORLIST

DATE	2022 03 04	SHEET NO.
PROJECT NO.	145a-004-20	M001
SCALE		
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AIR COOLED CONDENSING UNIT													
EQUIPMENT TAG	LOCATION	TYPE	MANUFACTURER	MODEL	TOTAL CLG CAP (KW)	HTG CAP (KW)	WEIGHT (KG)	REFRIGERANT TYPE	ELEC (MCA)	(V/PHHZ)	AMBIENT DESIGN (°C)		NOTES
											COOLING	HEATING	
CU-001	OUTDOORS	VRF	mitsubishi	PURY-EP168TNU-A	47.7	37.2	427.7	R410A	57	208/3/60	29.4	-9.4	ALL

NOTES:

- FULLY MODULATING INVERTER COMPRESSORS.
- SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE SIZES, LENGTHS, AND REFRIGERANT VOLUME.
- (2) MODULE SYSTEM.
- PROVIDE 8 T.L LISTED BACNET MODULE FOR INTERFACE WITH BMS.
- REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

EXPANSION TANK												
EQUIPMENT TAG	LOCATION	TANK DESCRIPTION	TYPE	MANUFACTURER	MODEL	VOLUME (L)	TANK DIAMETER (MM)	TANK LENGTH (MM)	BLADDER CHARGE (KPA)	MAX WORKING PRESS. (KPA)	ARRANGEMENT	NOTES
ET-001	MECH. ROOM	DHW EXPANSION TANK	DIAPHRAGM	AMTROL	ST-12	17	279.4	381	276	1034	VERTICAL	ALL

NOTES:

- FIXED BLADDER (FDA APPROVED BUTYL) TANK SUITABLE FOR DOMESTIC USE.
- TANK SUPPLIED WITH SEISMIC MOUNTING KIT.
- DIELECTRIC CONNECTION.
- TANK TO BE ASME RATED.
- FIXED HEAVY DUTY BUTYL BLADDER.
- ASHRAE 90.1 INSULATION COMPLIANCE.

ENERGY RECOVERY UNIT VENTILATOR SCHEDULE										
EQUIPMENT TAG	QTY	LOCATION	MANUFACTURER	MODEL	SERVICE	EXHAUST SIDE		SUPPLY SIDE		NOTES
						AIR FLOW (L/S)	ESP (PA)	AIR FLOW (CFM)	ESP ((N WG))	
HRV-001	1	TRAINING/MEETING	RENEW AIRE	HE-1XJINH-S15EE-DGNT-L	TRAINING/MEETING	359.62	74.7	359.62	74.7	1.2
HRV-002	1	GEAR ROOM	RENEW AIRE	HE-1XJINH-S15EE-DGNT-L	GEAR ROOM/MTG ROOM/OFFICES/LIBRARY	283.17	74.7	283.17	74.7	1.2
HRV-003	1	STORAGE 204	RENEW AIRE	HE-1XJINH-S15EE-DGNT-L	DORMS/DAY ROOM	594.65	74.7	594.65	74.7	1.2

NOTES:

- PROVIDE WITH MANUFACTURER'S CONTROL UNIT
- MERV 8 FILTER

DOMESTIC WATER HEATER (ELECTRIC)												
EQUIPMENT TAG	QTY	LOCATION	SERVICE	TANK DESCRIPTION	MANUFACTURER	MODEL	VOLUME (GAL)	INPUT (KW)	RECOVERY CAPACITY (GPH)	TEMP. RISE (DEG F)	SHIPPING WEIGHT (LBS)	NOTES
DWH-001	1	MECHANICAL ROOM	FIREHALL	ELECTRIC WATER HEATER	AO SMITH	DSE-20-9	20	9	37	100	145	1.4
DWH-002	1	MECHANICAL ROOM	FIREHALL	ELECTRIC WATER HEATER	AO SMITH	DSE-20-9	20	9	37	100	145	1.4

NOTES:

- CW CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE AND A DRAIN VALVE.
- PROVIDE FLUE & VENTING KITS
- MEETS OR EXCEEDS INSULATION REQUIREMENT AS PER ASHRAE 90.1

FANS														
EQUIPMENT TAG	QTY	SERVICE	LOCATION	TYPE	MANUFACTURER	MODEL	AIR FLOW (L/S)	E. S. P. (PA)	FAN (RPM)	DRIVE TYPE	SOUND LEVEL (SONES)	ELEC (V/PH/CHZ)	WEIGHT (KG)	NOTES
EF-001	1	NEDERMAN EXHAUST SYSTEM	APPARATUS BAY	INLINE CENTRIFUGAL FAN	NEDERMAN	NCF 80/20	2,372	1,020	3550	DIRECT	-	208/3/60	670	
EF-002	1	APPARATUS BAY GENERAL EXHAUST	APPARATUS BAY	INLINE CABINET FAN	GREENHECK	SQ-120-A	779	75	1725	DIRECT	13.6	120/1/60	136	
EF-004	1	APPARATUS BAY WASHROOM EXHAUST	WC 118	CEILING FAN	PANASONIC	FV-0511VQ1	24	75	1093	DIRECT	0.4	120/1/60	-	
EF-005	1	LAUNDRY ROOM BOOSTER	LAUNDRY ROOM	CEILING FAN	PANASONIC	FV-1115VQ1	47	75	900	DIRECT	<-0.3	120/1/60	-	
EF-006	1	WORKSHOP GENERAL EXHAUST	WORKSHOP	CEILING FAN	PANASONIC	FV-1115VQ1	47	75	900	DIRECT	<-0.3	120/1/60	-	
EF-007	1	DECON ROOM GENERAL EXHAUST	DECON	CEILING FAN	PANASONIC	FV-0511VQ1	24	75	1093	DIRECT	0.4	120/1/60	-	
EF-008	1	SCBA ROOM GENERAL EXHAUST	SCBA	CEILING FAN	PANASONIC	FV-1115VQ1	47	75	900	DIRECT	<-0.3	120/1/60	-	
EF-009	1	MECH. ROOM GENERAL EXHAUST	MECH. ROOM	CEILING FAN	PANASONIC	FV-1115VQ1	47	75	900	DIRECT	<-0.3	120/1/60	-	
EF-010	1	KITCHEN RANGE HOOD	DAYROOM	UNDER-CABINET RANGE HOOD	BROAN	SAHLE	142	25	-	DIRECT	5	120/1/60	61	
EF-011	1	SCBA-2 ROOM EXHAUST (COMPRESSOR)	SCBA-2	INLINE CABINET FAN	GREENHECK	SQ-100-B	330	75	1140	DIRECT	5.8	120/1/60	113	
EF-012	1	ELEC. ROOM COOLING FAN	ELEC. ROOM	CEILING FAN	PANASONIC	FV-1115VQ1	47	75	900	DIRECT	<-0.3	120/1/60	-	
CF-001	1	DESTRATIFICATION FAN	APPARATUS BAY	CEILING FAN	BIG ASS FANS	POWERFOIL X3.0				DIRECT		208/3/60		
CF-002	1	DESTRATIFICATION FAN	APPARATUS BAY	CEILING FAN	BIG ASS FANS	POWERFOIL X3.0				DIRECT		208/3/60		

NOTES:

- BACKDRAFT DAMPER IF <300, MOTORIZED DAMPER IS >300
- HIGH EFFECIENCY MOTOR (MINIMUM)
- 1/2 INCH INSULATED CABINET
- DISCONNECT SWITCH
- CW VARIABLE SPEED DRIVE

PUMP SCHEDULE															
EQUIPMENT TAG	QTY	DESCRIPTION	LOCATION	TYPE	MANUFACTURER	MODEL	FLUID TEMP. (DEG C)	FLUID TYPE	FLOW (EA) (LPM)	HEAD (EA) (M)	IMPELLER SIZE (MM)	MOTOR (HP)	MOTOR (RPM)	POWER (V/PH/CHZ)	NOTES
P-1	1	DOMESTIC HOT RECIRC PUMP	MECH ROOM	RECIRC	BELL & GOSSETT	NBF-25	60	WATER	19.0	3.0		FRAC	2,950	120/1/60	ALL

NOTES:

- ALL BRONZE CONSTRUCTION.
- AQUASTAT CONTROLLED
- HIGH EFFICIENCY MOTOR, SEE MOTORLIST FOR STARTER
- CW BELL&GOSSETT AQS-3/4 AQUASTAT

VRF - FAN COIL UNIT SCHEDULE																							
EQUIPMENT TAG	CONDENSER	QTY	SERVICE	LOCATION	TYPE		MANUFACTURER	EVAP. MODEL	TOTAL CLG CAP (KW)	HTG CAP. (KW)	AIR FLOW (LPS WET COIL)	EVAP WEIGHT (KG)	EVAP DIMENSIONS (LXWXH)		COND. MODEL NO.	COND. AIR FLOW (LPS)	COND. WEIGHT (KG)	OUTDOOR AIR TEMP. (DEG C)		RM SETPOINT		NOTES	
					EVAPORATOR	CONDENSER							(V/PH/CHZ)	(V/PH/CHZ)				WINTER DB	SUMMER DB	DEG C	RH %		
FC-001	CU-001	1	TRAINING/MEETING ROOM	TRAINING/MEETING ROOM	OUTDOOR AT LEVEL 1	WALL MOUNTED FAN COIL	MITSUBISHI	PKFY-P12NLMU-E	3183.2	3388.6	140.2	5.0	732X1500X250	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL
FC-002	CU-001	1	TRAINING/MEETING ROOM	TRAINING/MEETING ROOM	OUTDOOR AT LEVEL 1	WALL MOUNTED FAN COIL	MITSUBISHI	PKFY-P12NLMU-E	3183.2	3388.6	140.2	5.0	732X800X250	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL
FC-003	CU-001	1	GEAR ROOM	GEAR ROOM	OUTDOOR AT LEVEL 1	CONCEALED DUCTED FAN COIL	MITSUBISHI	PEFY-P12NMSU-E	3183.2	3388.6	174.6	9.1	732X800X250	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL
FC-004	CU-001	1	MTG ROOM	MTG ROOM	OUTDOOR AT LEVEL 1	WALL MOUNTED FAN COIL	MITSUBISHI	PKFY-P06NLMU-E	1591.7	1681.7	90.2	5.0	732X1000X250	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL
FC-005	CU-001	1	OFFICES	CORRIDOR	OUTDOOR AT LEVEL 1	CONCEALED DUCTED FAN COIL	MITSUBISHI	PEFY-P12NMSU-E	3183.2	3388.6	174.6	9.1	732X1000X250	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL
FC-006	CU-001	1	OFFICE/LIBRARY	TRAINING OFFICER	OUTDOOR AT LEVEL 1	CONCEALED DUCTED FAN COIL	MITSUBISHI	PEFY-P06NMSU-E	1591.7	1681.7	116.6	8.6	237X773X299	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL
FC-007	CU-001	1	IT ROOM	IT ROOM	OUTDOOR AT LEVEL 1	CONCEALED DUCTED FAN COIL	MITSUBISHI	PEFY-P18NMSU-E	4774.9	5019.9	249.7	10.9	237X773X299	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL
FC-008	CU-001	1	DAY ROOM	DAY ROOM	OUTDOOR AT LEVEL 1	CONCEALED DUCTED FAN COIL	MITSUBISHI	PEFY-P06NMAU-E4	795.1	854.0	416.8	13.6	732X800X250	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL
FC-009	CU-001	1	DAY ROOM	DAY ROOM	OUTDOOR AT LEVEL 1	CONCEALED DUCTED FAN COIL	MITSUBISHI	PEFY-P24NMAU-E4	6366.4	6777.0	416.8	13.6	732X800X250	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL
FC-010	CU-001	1	FITNESS AREA	FITNESS AREA	OUTDOOR AT LEVEL 1	CONCEALED DUCTED FAN COIL	MITSUBISHI	PKFY-P24NKMU-E2	6366.4	6777.0	434.2	9.5	732X800X250	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL
FC-011	CU-001	1	DORMS	DORMS	OUTDOOR AT LEVEL 1	CONCEALED DUCTED FAN COIL	MITSUBISHI	PEFY-P24NMSU-E	6366.4	6777.0	333.2	12.7	732X800X251	208/1/60	PURY-EP168TNUA-(BS)	7009.2	352.4	208/3/60	15.0	52.2	23.9	50	ALL

NOTES:

- PROVIDE WALL MOUNTED PROGRAMMABLE THERMOSTAT FOR EACH FAN COIL
- PROVIDE 3/4" COPPER CONDENSATE DRAIN
- PROVIDE MANUFACTURER FILTER
- PROVIDE PACKAGED CONDENSATE PUMP, (120 V CONNECTION)
- REFRIGERANT AND SUCTION LINES SIZE BY MANUFACTURER.
- PROVIDE MOUNTING BASE FOR CONDENSING UNITS

EVAP = INDOOR UNIT
COND = OUTDOOR UNIT

BACK FLOW PREVENTER SCHEDULE						
TAG	QTY	SERVICE AREA	LOCATION	TYPE	SIZE	MODEL
BFP-1	1	PREMESIS ISOLATION	WATER ENTRY ROOM	DCVA	1000	WATTS 757
BFP-2	1	FIRE PROTECTION ISOLATION	WATER ENTRY ROOM	DCVA	1000	AMES 2000B-FP
BFP-3	1	WASHER ISOLATION	LAUNDRY 119	DCVA	250	WATTS LF-009

NOTES:

BRANCH CIRCUIT CONTROLLER								
EQUIPMENT TAG	LOCATION	MANUFACTURER	MODEL	MAX NUMBER OF BRANCHES	WEIGHT (KG)	ELEC (MCA)	(V/PH/CHZ)	NOTES
BC-1	CORRIDOR 101	MITSUBISHI	CMB-P1012NU-JA1	16	69.40	1.57	208/1/60	0

NOTES:

- REFRIGERANT LINES SIZED BY MANUFACTURER.
- R410A REFRIGERANT.
- INDIVIDUAL CONTROL AND CHANGEOVER WITH EXTENDED RANGE OF PRODUCT OFFERINGS - 4, 6, 8, 10 AND 12 PORT OPTIONS.
- NO DRAIN PIPE REQUIRED.
- REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

DIFFUSERS AND GRILLES					
EQUIPMENT TAG	DESCRIPTION/TYPE	MANUFACTURER	SERVICE	MODEL NUMBER	NOTES
SD-1	SQUARE PLAQUE DIFFUSER, 12"X12"	E.H. PRICE	SUPPLY AIR	SPD	1.2,3,4
SD-2	SQUARE PLAQUE DIFFUSER, 24"X24"	E.H. PRICE	SUPPLY AIR	SPD	1.2,3,5
SD-3	ROUND CONE DIFFUSER	E.H. PRICE	SUPPLY AIR	RCD	1.2,3,6
SS-1	LOUVERED FACE SUPPLY GRILLE	E.H. PRICE	SUPPLY AIR	499	1.2,3,4,4
RG-1	LOUVERED FACE RETURN GRILLE	E.H. PRICE	RETURN AIR	500	1.2,3,4,5
L-1	DRAINABLE LOUVER	E.H. PRICE	INTAKE AND EXHAUST LOUVER	DE439	3,6,7,8
DG-1	DOOR GRILLE	E.H. PRICE	RETURN AIR	STG	1,2,5

NOTES:

- PROVIDE DIFFUSERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT WALLS AND CEILING SYSTEMS. REFER TO ARCHITECTURAL DRAWINGS.
- NO LEVELS BASED ON OCTAVE BANDS 2/7 SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 DB, MEASURED PER ASHRAE 70-91.
- CUSTOM COLOUR OF PRODUCT TO BE SELECTED BY THE ARCHITECT DURING THE SHOP DRAWINGS SUBMITTAL PROCESS.
- PROVIDE OPPOSED BLADE DAMPERS FOR RETURN AND EXHAUST GRILLES
- BLADES TO BE PARALLEL TO LONG DIMENSION
- MINIMUM NOMINAL 50% FREE AREA
- CW BIRD SCREEN
- BLADES TO BE ALUMINUM CONSTRUCTION



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PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
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SHEET TITLE
MECHANICAL SCHEDULES

DATE	2022 03 04	SHEET NO.	M002
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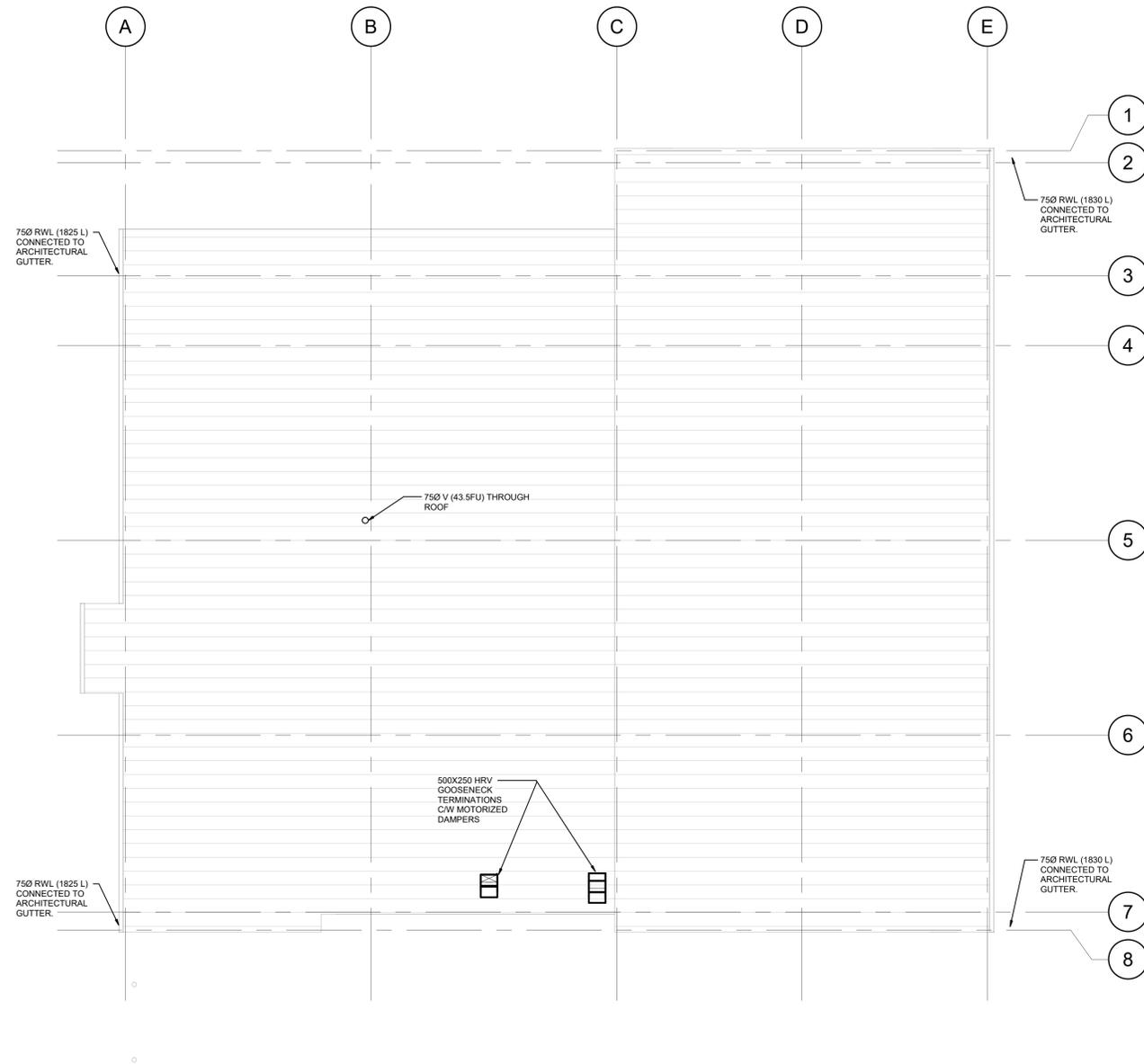


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 SPRUCE GROVE AB, T7X 2C5

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



1 MECHANICAL ROOF PLAN
 M101 SCALE: 1:100

NO.	DATE	DESCRIPTION
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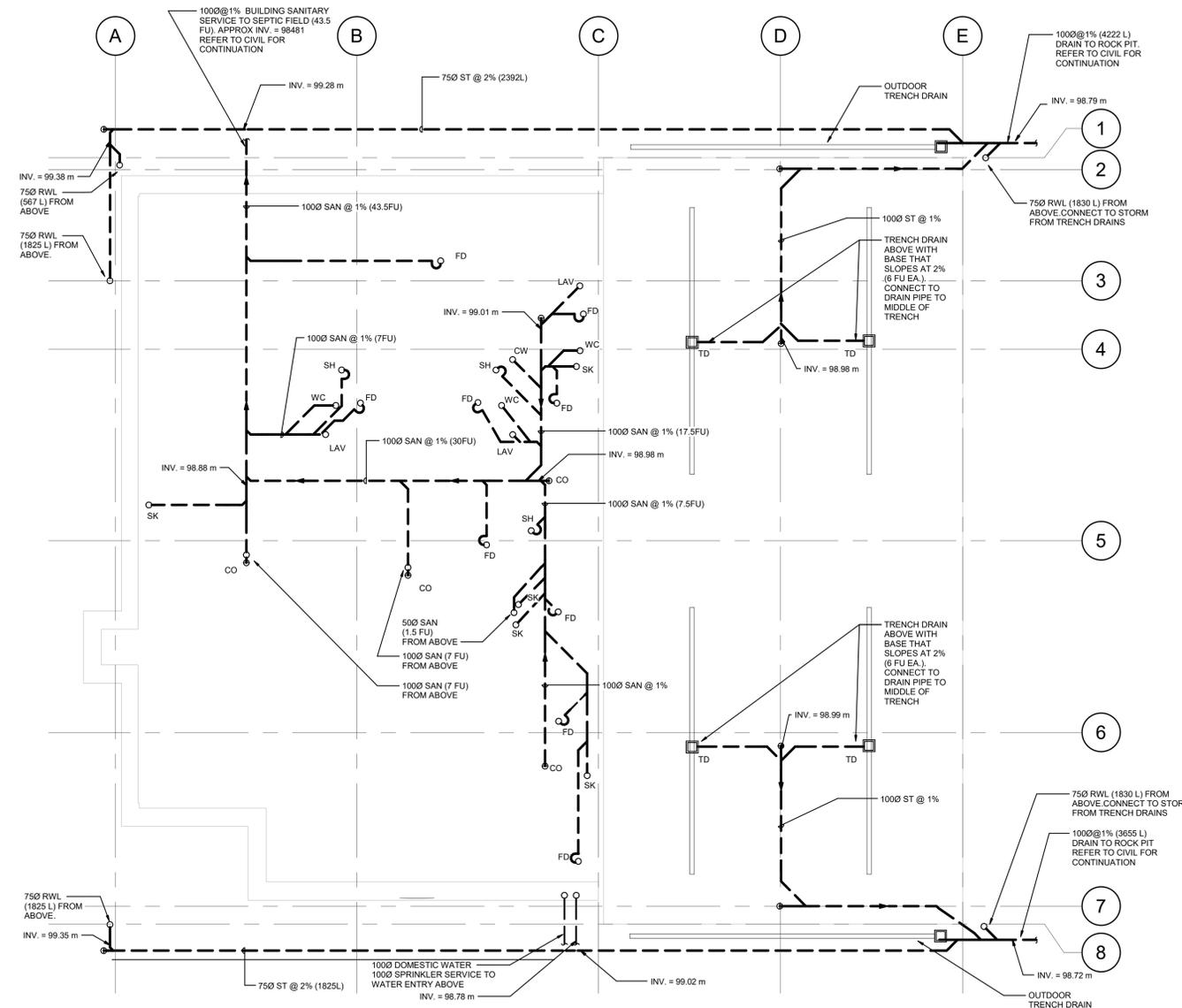
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SHEET TITLE
MECHANICAL ROOF PLAN

DATE	2022 03 04	SHEET NO.
PROJECT NO.	145a-004-20	M101
SCALE	1:100	
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1 MECHANICAL FOUNDATION PLAN
M102 SCALE: 1 : 100

GENERAL NOTES

- REFER TO THE PLUMBING FIXTURE TABLE FOR FIXTURE LOAD UNLESS OTHERWISE INDICATED ON DRAWING.
- ALL SANITARY PIPING IS SLOPED AT 1% UNLESS OTHERWISE STATED

PLUMBING FIXTURE TABLE

FIXTURE	LOAD (FU)
LAV	1.5
WC	4
SH	1.5
SK	1.5

ELEVATIONS

T.O.S LEVEL 1 - 99600

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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



NO.	DATE	DESCRIPTION
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2	2022-05-20	ISSUED FOR COSTING
1	2022-03-04	ISSUED FOR BIP

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PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD QUALICUM BEACH BC V9K 2B2

SHEET TITLE
MECHANICAL FOUNDATION PLAN

DATE	2022 03 04	SHEET NO.	M102
PROJECT NO.	145a-004-20		
SCALE	1 : 100		
DRAWN BY	SW		

- GENERAL NOTES**
- REFER TO THE PLUMBING FIXTURE TABLE FOR FIXTURE LOAD UNLESS OTHERWISE INDICATED ON DRAWING.
 - ALL SANITARY PIPING IS SLOPED AT 1% UNLESS OTHERWISE STATED.
 - ALL WATER MAINS TO BE ROUTED THROUGH CEILING SPACE.
 - PLUMBING ROUTING/CONFIGURATION DRAWN FOR INTENT PURPOSE ONLY. ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
 - RUN ALL PIPING WITHIN APPARATUS BAY AT HIGH LEVEL. CONTRACTOR TO COORDINATE PIPE LOCATIONS WITH OTHER SERVICES AND OVERHEAD BAY DOORS.
 - SLOPE ALL COMPRESSED AIR LINES BACK TO COMPRESSOR. ALL TAKE OFFS TO BE FROM THE TOP OF HTE MAIN PRIOR TO DROPPING DOWN TO PREVENT MOISTURE BUILD UP.
 - INCLUDE SPRINKLERS UNDER THE OVERHANG IN LEVEL-2 DECK

PLUMBING FIXTURE TABLE

FIXTURE	LOAD (FU)
LAV	1.5
WC	4
SH	1.5
SK	1.5

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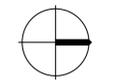


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VANCOUVER BC, V6B 1E3

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3-300 KING ST
SPRUCE GROVE AB, T7X 2C6

CALGARY
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710-1122 4TH ST SW
CALGARY AB, T2R 1M1



NO.	DATE	DESCRIPTION
3	2022-07-18	ISSUED FOR TENDER
2	2022-05-20	ISSUED FOR COSTING
1	2022-03-04	ISSUED FOR BIP

SEAL



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Robert Rocheleau, Architect, AIBC

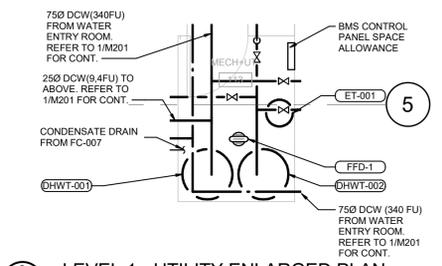
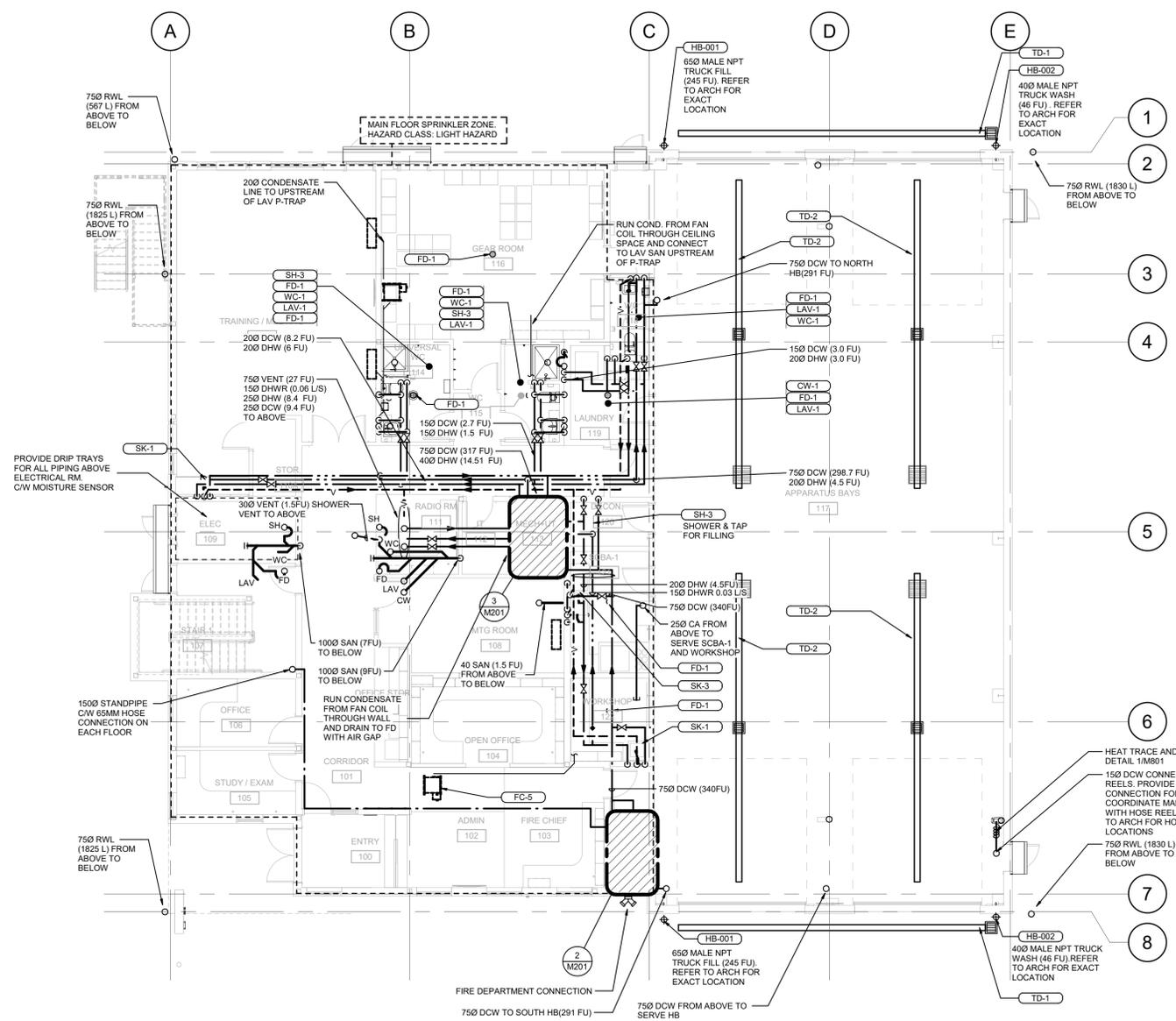
401 - 1245 Esplanade Rd. Victoria, BC V8A 3P2
250 475 2702 studio.ca

PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

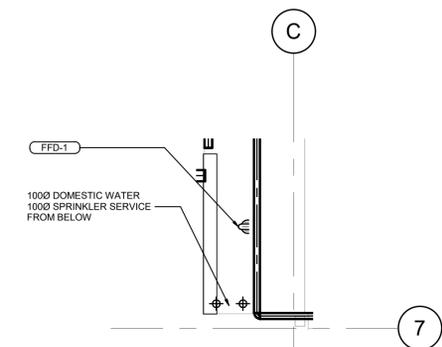
230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE
PLUMBING PLAN LEVEL-1

DATE	2022 03 04	SHEET NO.	M201
PROJECT NO.	145a-004-20		
SCALE	As Indicated		
DRAWN BY	SW		

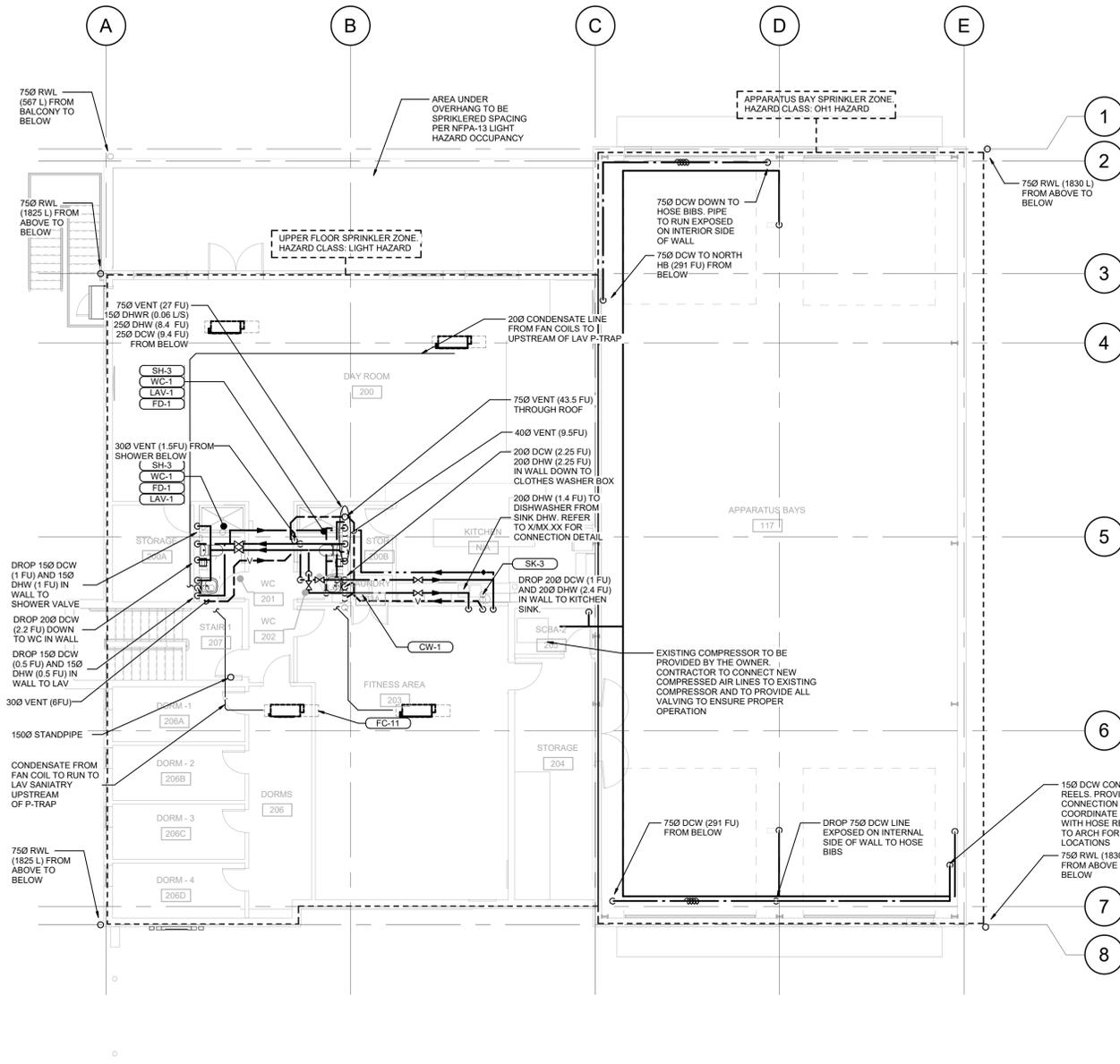


3 LEVEL 1 - UTILITY ENLARGED PLAN
SCALE: 1: 50



2 LEVEL 1 - WATER ENTRY ENLARGED PLAN
SCALE: 1: 50

1 PLUMBING PLAN LEVEL-1
SCALE: 1: 100



- GENERAL NOTES**
- REFER TO THE PLUMBING FIXTURE TABLE FOR FIXTURE LOAD UNLESS OTHERWISE INDICATED ON DRAWING.
 - ALL SANITARY PIPING IS SLOPED AT 1% UNLESS OTHERWISE STATED
 - ALL WATER MAINS TO BE ROUTED THROUGH CEILING SPACE.
 - PLUMBING ROUTING/CONFIGURATION DRAWN FOR INTENT PURPOSE ONLY. ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS
 - RUN ALL PIPING WITHIN APPARATUS BAY AT HIGH LEVEL. CONTRACTOR TO COORDINATE PIPE LOCATIONS WITH OTHER SERVICES AND OVERHEAD BAY DOORS.
 - SLOPE ALL COMPRESSED AIR LINES BACK TO COMPRESSOR. ALL TAKE OFFS TO BE FROM THE TOP OF HTE MAIN PRIORING TO DROPPING DOWN TO PREVENT MOISTURE BUILD UP.
 - INCLUDE SPRINKLERS UNDER THE OVERHANG IN LEVEL-2 DECK

PLUMBING FIXTURE TABLE

FIXTURE	LOAD (FU)
LAV	1.5
WC	4
SH	1.5
SK	1.5

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



1 PLUMBING PLAN LEVEL-2
SCALE: 1 : 100

NO.	DATE	DESCRIPTION
3	2022-07-18	ISSUED FOR TENDER
2	2022-05-20	ISSUED FOR COSTING
1	2022-03-04	ISSUED FOR B/P

SEAL



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PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE
PLUMBING PLAN LEVEL-2

DATE	2022 03 04	SHEET NO.	M202
PROJECT NO.	145a-004-20		
SCALE	1 : 100		
DRAWN BY	SW		

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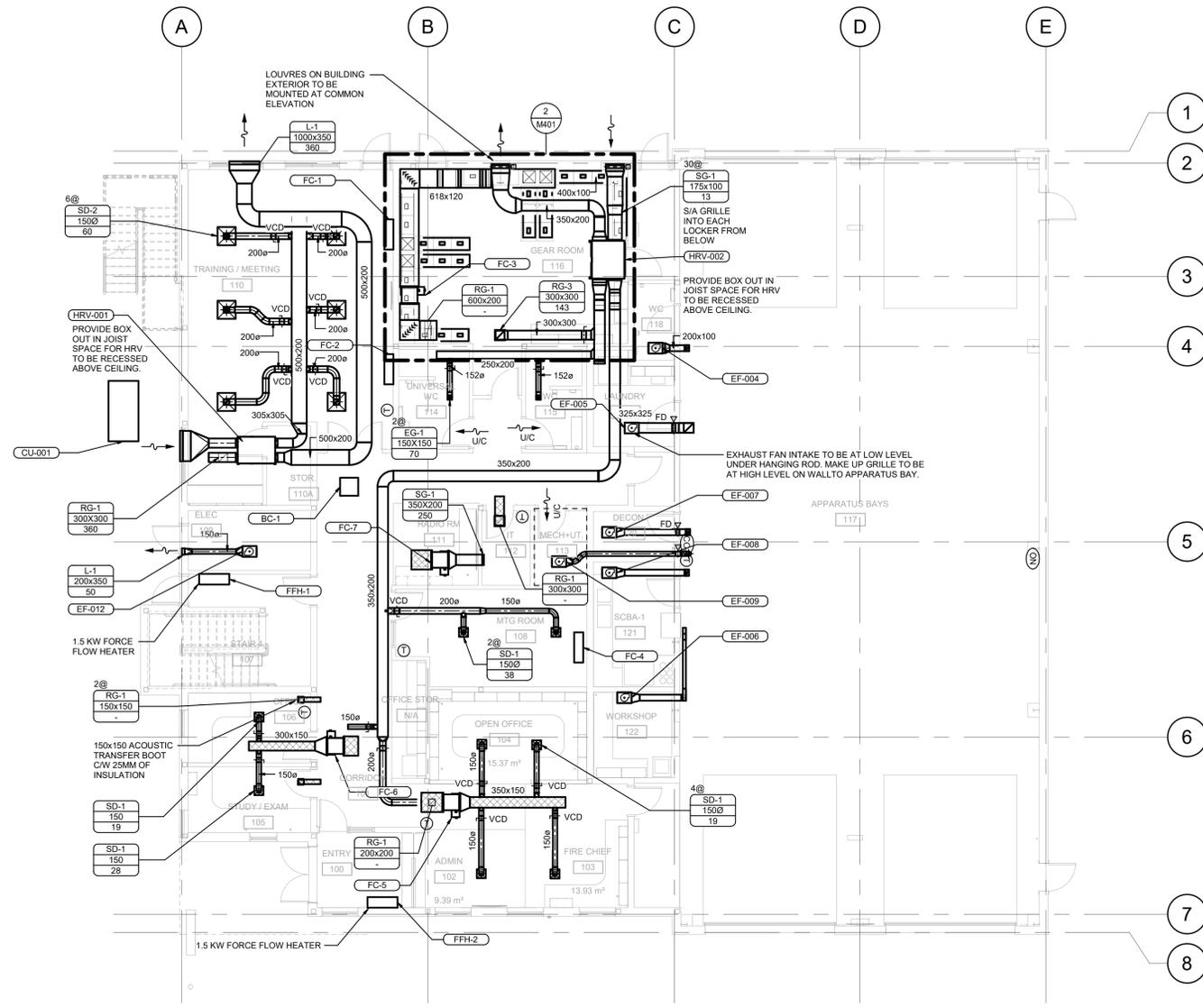
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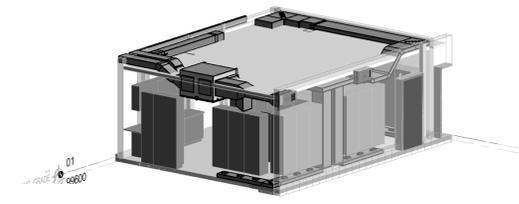
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200-438 SMITH ST
VANCOUVER BC, V6B 1E3

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 2C5



1 HVAC PLAN LEVEL-1
M401 SCALE: 1: 100



2 HVAC PLAN LEVEL-1
M401 SCALE:

NO.	DATE	DESCRIPTION
3	2022-07-18	ISSUED FOR TENDER
2	2022-05-20	ISSUED FOR COSTING
1	2022-03-04	ISSUED FOR BIP

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PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE
HVAC PLAN LEVEL-1

DATE	2022 03 04	SHEET NO.
PROJECT NO.	145a-004-20	M401
SCALE	1: 100	
DRAWN BY	SW	

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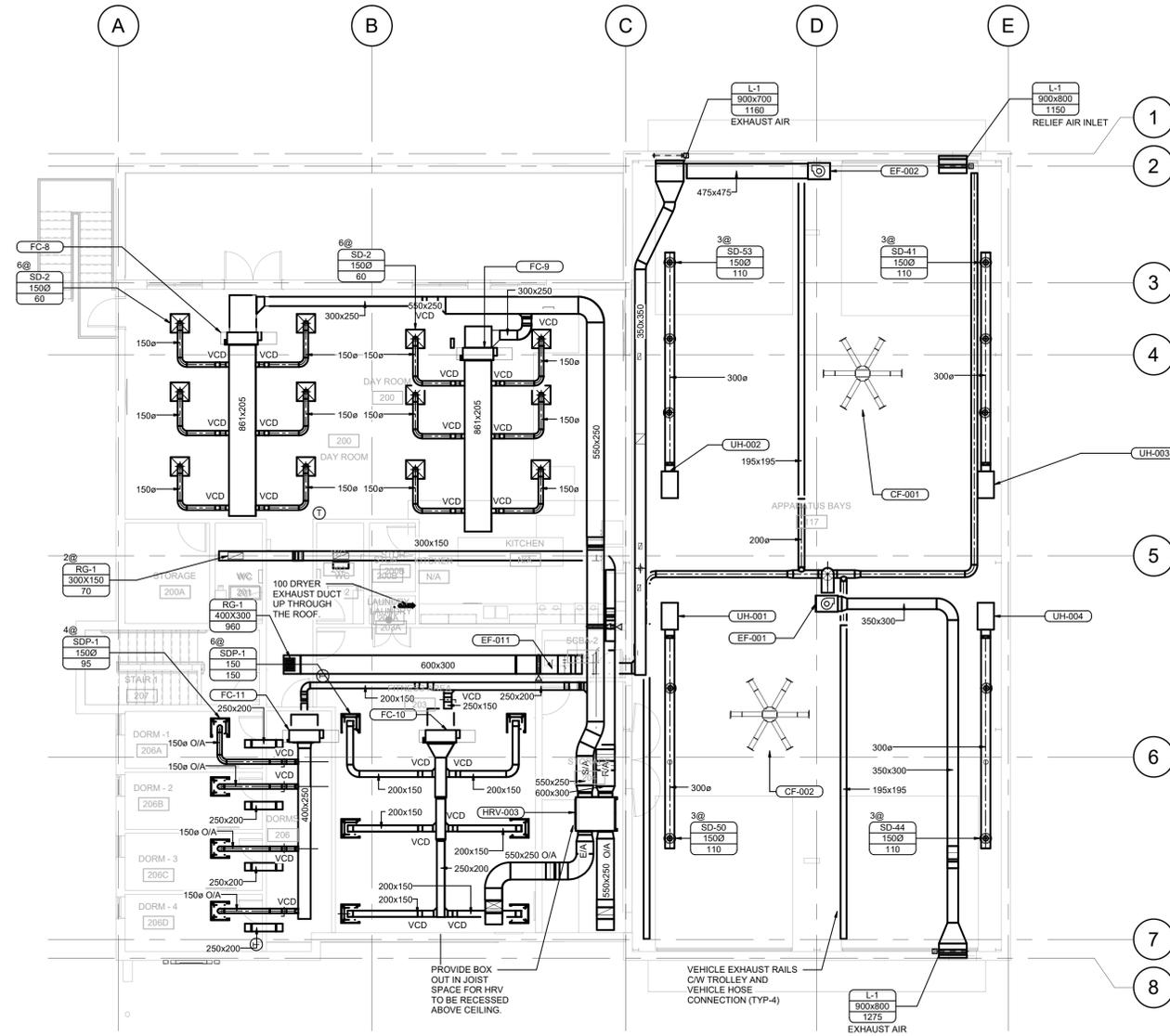
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200 - 438 SMITH ST
VANCOUVER BC, V6B 1E3

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 2C5

GENERAL NOTES

1. MAINTAIN A MINIMUM 600MM OF STRAIGHT DUCTWORK ON THE INLET AND OUTLET OF UNIT HEATERS IN APPARATUS BAY.



1 HVAC PLAN LEVEL-2
SCALE: 1: 100



NO.	DATE	DESCRIPTION
3	2022-07-18	ISSUED FOR TENDER
2	2022-05-20	ISSUED FOR COSTING
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PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE
HVAC PLAN LEVEL-2

DATE	2022 03 04	SHEET NO.
PROJECT NO.	145a-004-20	M402
SCALE	1: 100	
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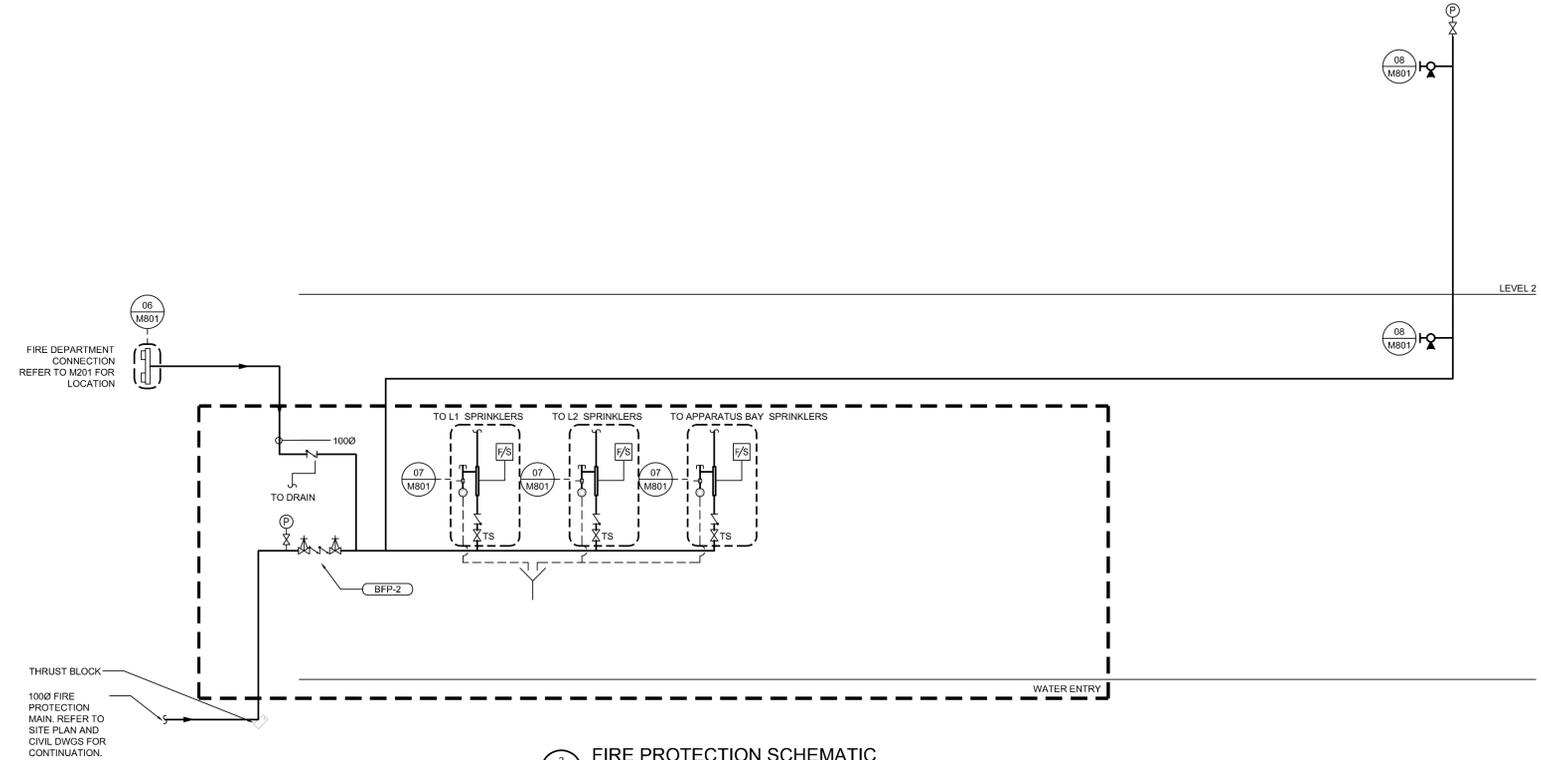


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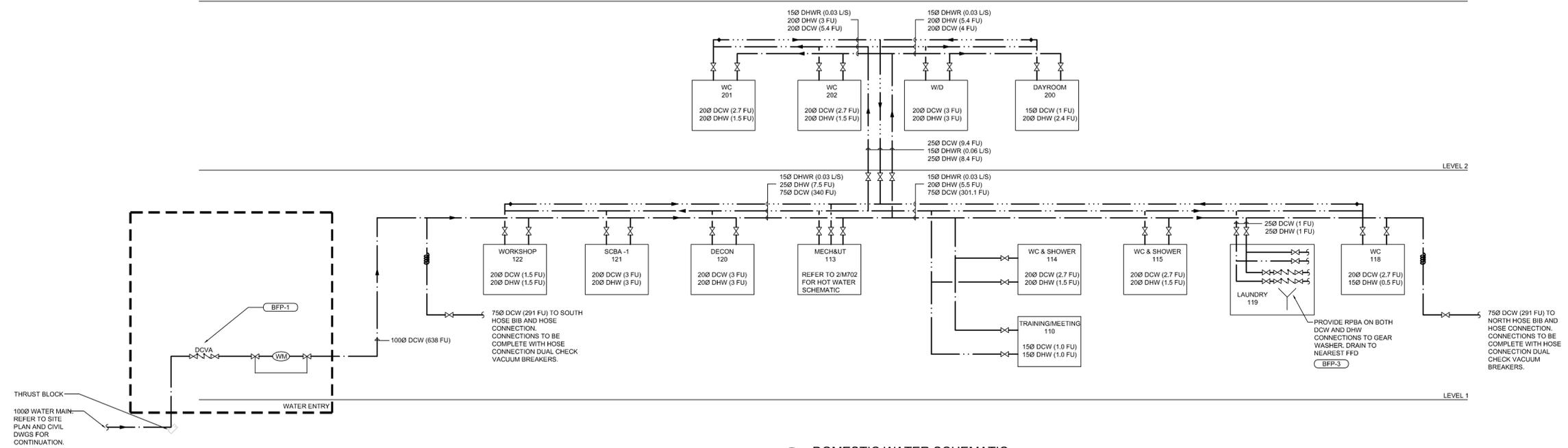
VANCOUVER
 T. 604-684-5995 F. 604-684-5993
 200 - 148 SMITH ST
 VANCOUVER BC, V6B 1E3

CALGARY
 T. 403-255-2333 F. 403-252-2334
 710 - 1122 4TH ST SW
 CALGARY AB, T2R 1M1

EDMONTON
 T. 403-255-2333 F. 403-252-2334
 1 - 300 KING ST
 SPRUCE GROVE AB, T7X 3C4



2 FIRE PROTECTION SCHEMATIC
 M701 SCALE: NTS



1 DOMESTIC WATER SCHEMATIC
 M701 SCALE: NTS

NO.	DATE	DESCRIPTION
3	2022-07-18	ISSUED FOR TENDER
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1	2022-03-04	ISSUED FOR BIP



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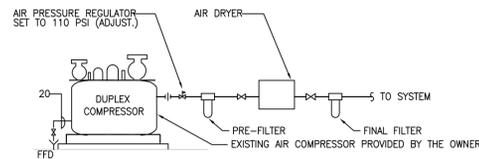
401 - 1245 Esquimalt Rd. Victoria, BC V8A 3P2
 250 475 2702 studio.pa.ca

PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
 QUALICUM BEACH BC
 V9K 2B2

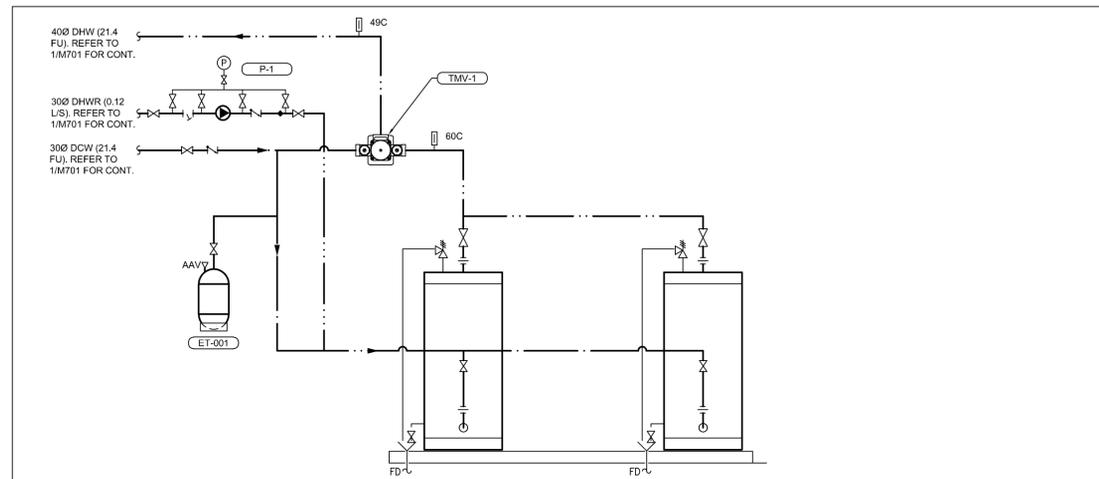
SHEET TITLE
MECHANICAL SCHEMATICS I

DATE	2022 03 04	SHEET NO.	
PROJECT NO.	145a-004-20		
SCALE			M701
DRAWN BY	SW		

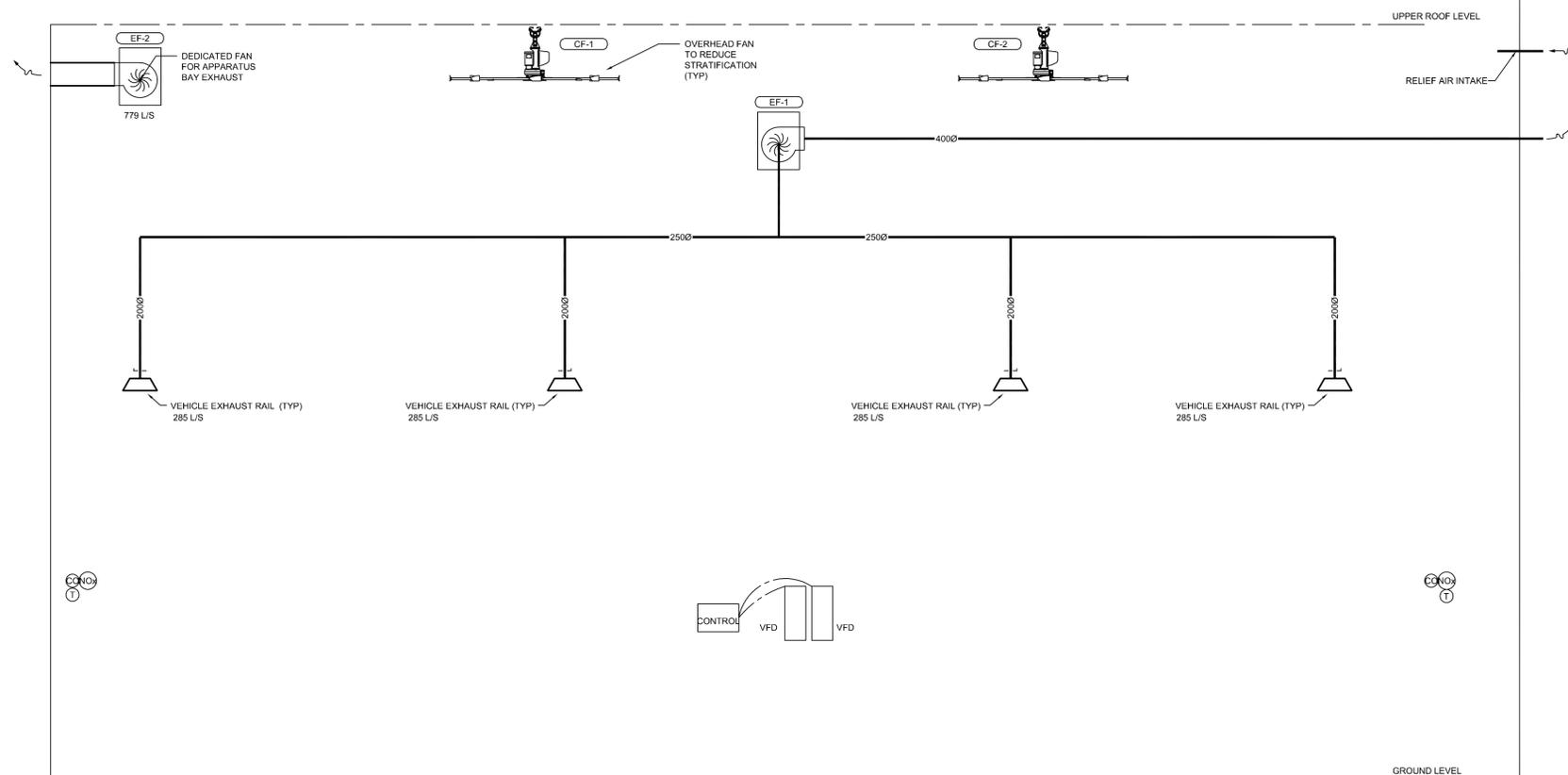


- NOTES:
1. ALL CONTROLS FOR THE COMPRESSOR SYSTEM SHALL BE STAND ALONE, INTEGRAL TO EQUIPMENT.
 2. SEE COMPRESSOR SCHEDULE FOR EQUIPMENT DETAILS.
 3. AIR DRYER TO BE PLACED AS FAR FROM COMPRESSOR AS POSSIBLE.

3 AIR COMPRESSOR SCHEMATIC
M702 SCALE: NTS



2 DOMESTIC HOT WATER SCHEMATIC
M702 SCALE: NTS



1 APPARATUS BAY VENTILATION
M702 SCALE: NTS

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710-1122 4TH ST SW CALGARY AB, T2R 1M1
EDMONTON T. 403-252-2333 F. 403-252-2334
1-300 KING ST SPRUCE GROVE AB, T7X 3C4



NO.	DATE	DESCRIPTION
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PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

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QUALICUM BEACH BC
V9K 2B2

SHEET TITLE
MECHANICAL SCHEMATICS II

DATE	2022 03 04	SHEET NO.
PROJECT NO.	145a-004-20	M702
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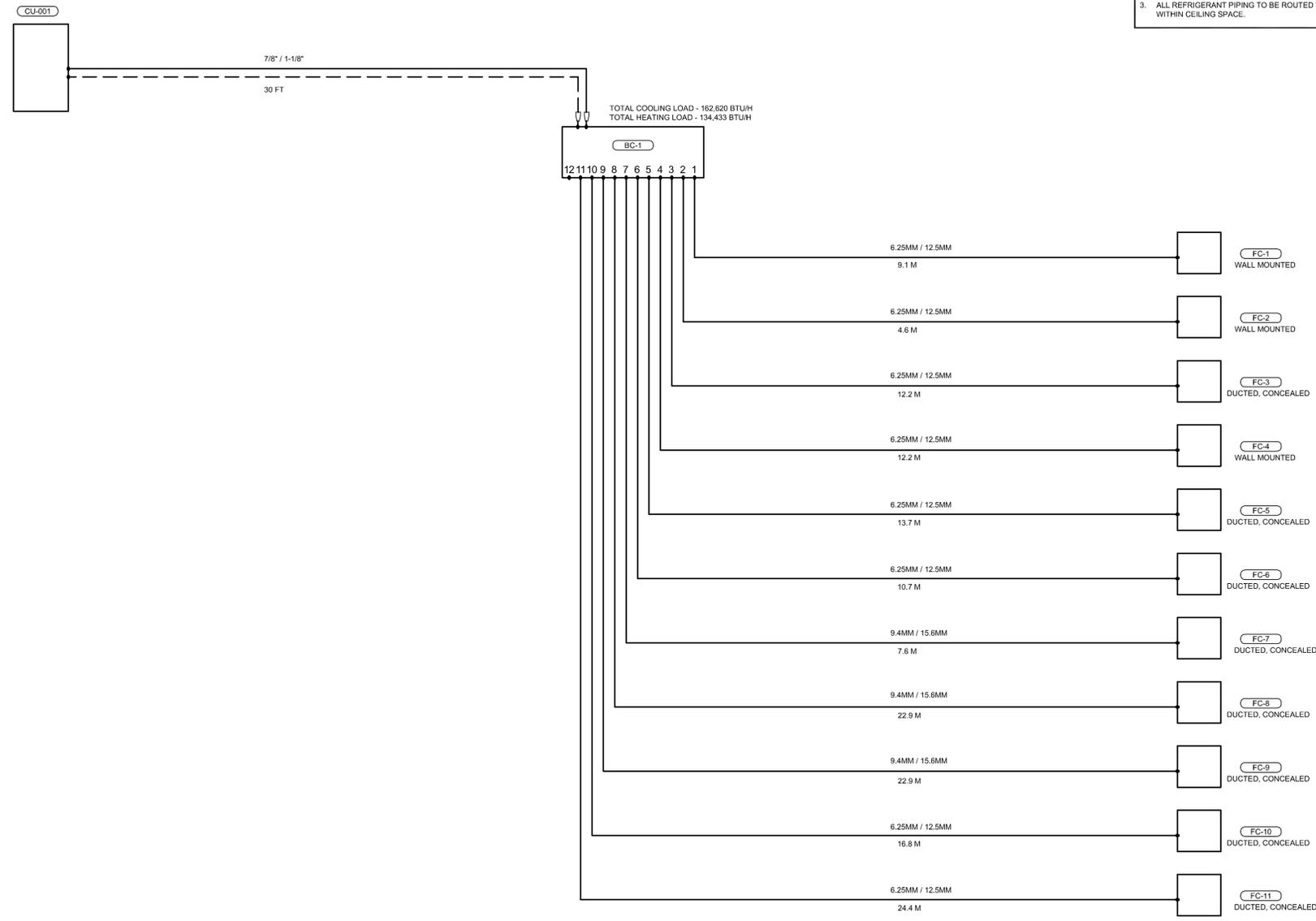
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200-148 SMITH ST
VANCOUVER BC, V6B 1E3

EDMONTON
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1-300 KING ST
SPRUCE GROVE AB, T7X 3C4

CALGARY
T. 403-255-2333 F. 403-255-2334
710-1122 4TH ST SW
CALGARY AB, T2R 1M1

GENERAL NOTES

- FAN COILS TO BE LOCATED AS SHOWN ON PLANS. CONTRACTOR TO CONFIRM ALL PIPE LENGTHS ON SITE BASED ON INSTALLATION LOCATION. LENGTHS SHOWN ARE FOR A SINGLE DIRECTION.
- BASIS OF DESIGN IS MITSUBISHI. CONTRACTOR TO CONFIRM PIPE SIZING IF ALTERNATE MANUFACTURER IS USED.
- ALL REFRIGERANT PIPING TO BE ROUTED THROUGH CORRIDORS WITHIN CEILING SPACE.



NO.	DATE	DESCRIPTION
3	2022-07-18	ISSUED FOR TENDER
2	2022-05-20	ISSUED FOR COSTING

NO.	DATE	DESCRIPTION

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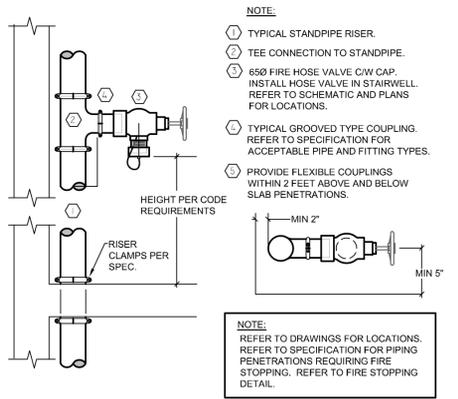
PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

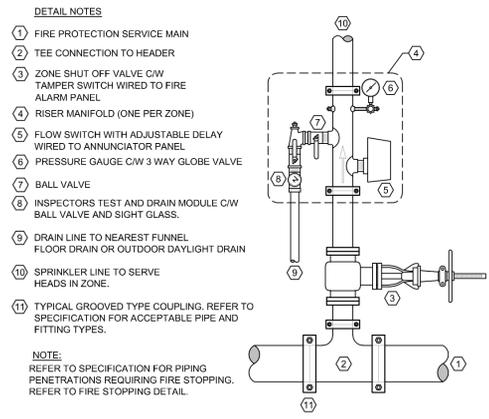
SHEET TITLE
MECHANICAL SCHEMATICS III

DATE	2022 03 04	SHEET NO.
PROJECT NO.	145a-004-20	M703
SCALE		
DRAWN BY	Author	

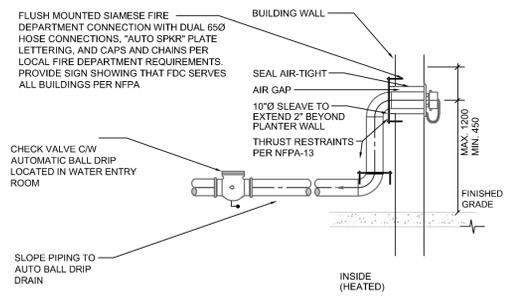
1 HVAC VRF SCHEMATIC
M702 SCALE: NTS



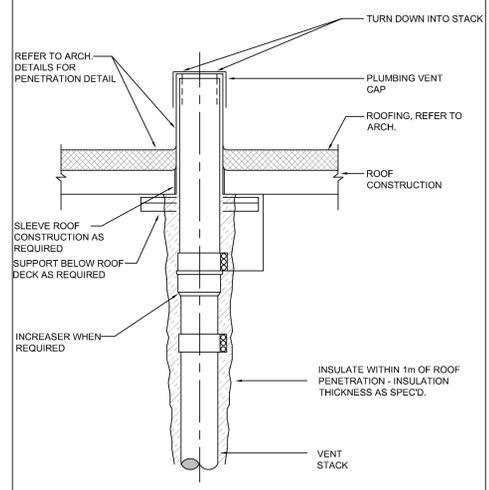
08 HOSE VALVE CONNECTION
 M801 SCALE: NTS



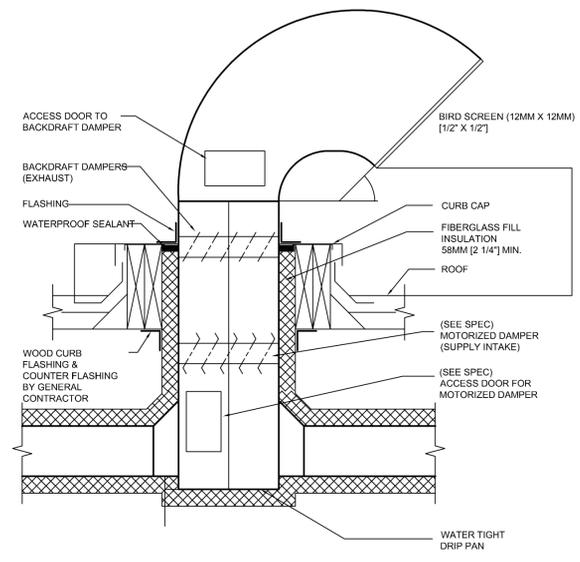
07 WET SPRINKLER ZONE CONTROL VALVE
 M801 SCALE: NTS



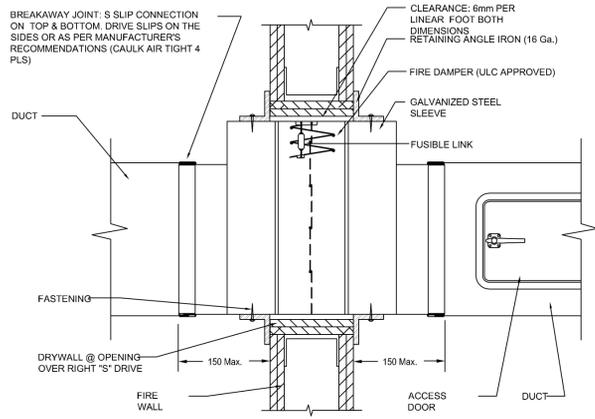
06 FIRE DEPARTMENT CONNECTION DETAIL
 M801 SCALE: NTS



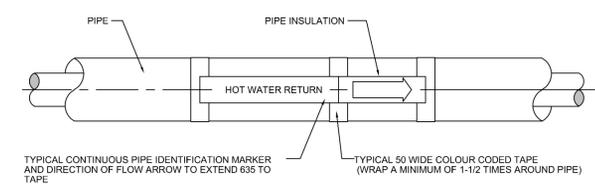
05 PLUMBING VENT ROOF PENETRATION DETAIL
 M801 SCALE: NOT TO SCALE



04 GOOSENECK EXHAUST OR INTAKE
 M801 SCALE: NTS

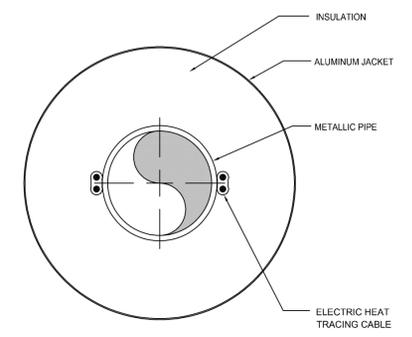


03 FIRE DAMPER
 M801 SCALE: NTS



DETAIL NOTES
 1. ALL DIMENSIONS IN MM.
 2. APPLY A CONTINUOUS COATING OF CONTACT CEMENT TO THE LABEL TO ENSURE PERMANENT ADHESION.
 3. REFER TO SPECIFICATION FOR COLOUR CODING OF SERVICES.
 4. INSTALL AT 15000 INTERVALS (MAXIMUM) AND AT EACH CHANGE DIRECTION.

02 PIPE IDENTIFICATION
 M801 SCALE: NTS



DETAIL NOTES
 1. ALL DIMENSIONS IN MM.
 2. ALL PIPES EXPOSED TO THE OUTDOOR AND NOTED ON THE DRAWINGS ARE TO BE HEAT TRACED AND INSULATED.
 3. INSULATION AND JACKET ARE TO BE INSTALLED ONLY AFTER INSPECTION AND APPROVAL OF HEAT TRACING.
 4. REFER TO SPECIFICATION FOR INSULATION AND JACKET REQUIREMENTS.

01 HEAT TRACING
 M801 SCALE: NTS

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 EDMONTON 1.403.252.2333 F.403.252.2334 3-300 KING ST SPRUCE GROVE AB, T7X 3C4

NO.	DATE	DESCRIPTION
2	2022-05-20	ISSUED FOR COSTING



DASHWOOD FIRE HALL REPLACEMENT

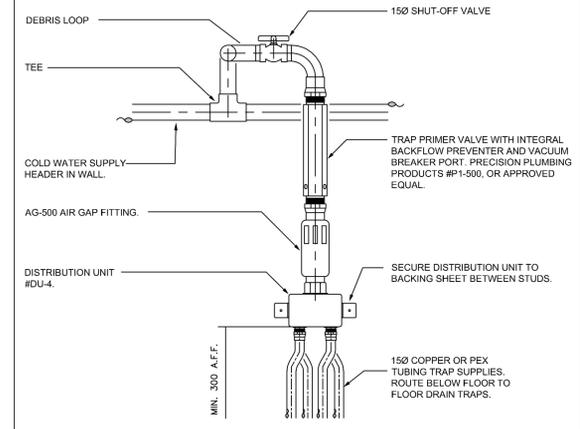
230 HOBBS ROAD
 QUALICUM BEACH BC
 V9K 2B2

SHEET TITLE
 MECHANICAL DETAILS

DATE	2022 03 04	SHEET NO.	M801
PROJECT NO.	145a-004-20		
SCALE			
DRAWN BY	SW		

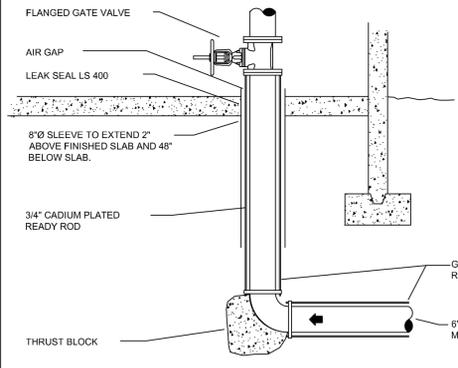


2022-07-22

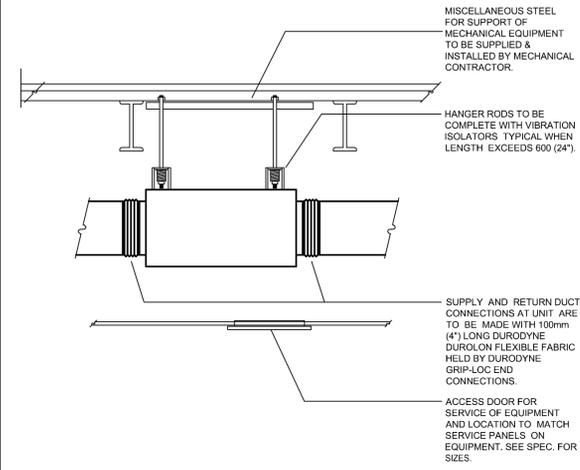


DETAIL NOTES
1. ALL DIMENSIONS IN MM.
2. MOUNT ASSEMBLY WITHIN WALL CAVITY AND PROVIDE ACCESS PANEL.
3. FOR PROPER FUNCTION, DO NOT INSTALL OFF A COLD WATER PIPE LARGER THAN 3000

04 TRAP PRIMER DETAIL
SCALE: NTS

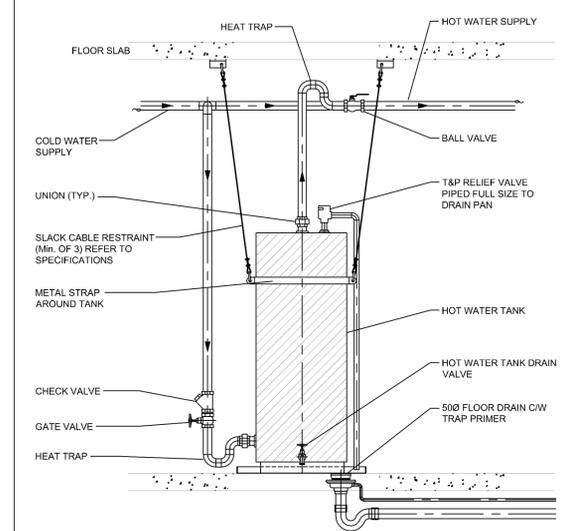


02 BUILDING WATER ENTRY SERVICE MAIN
SCALE: NTS

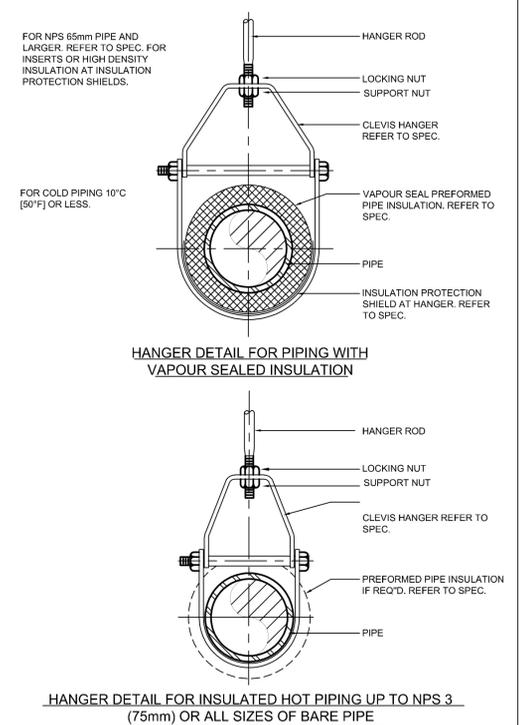


DETAIL NOTES
1. DETAIL APPLICABLE TO SUPPLY FANS, EXHAUST FANS, FAN COIL UNITS, HEAT PUMPS, UNIT HEATERS, ETC.

05 TYPICAL SUSPENDED MECHANICAL EQUIPMENT
SCALE: NTS



03 DOMESTIC HOT WATER TANK
SCALE: NTS



01 PIPE HANGERS
SCALE: NTS