AIR HANDLING UNIT (COOLING/HEATING)

DESIGNATION	LOCATION / SERVICE	MODEL NUMBER	TOTAL AIFLOW CFM	MINIMUM OUTSIDE AIR CFM	SUPPLY FAN					HYDRONIC COOLING COIL											HYDRONIC HEATING COIL									ELECTRICAL DATA		EMERGENCY POWER (Y/N)	VAR. SPEED (Y/N)	FAN SOUND POWER								OPERATING WEIGHT (LBS)	NOTES
					CFM	EXT. S.P. (IN. WG.)	RPM	QUANTITY	MOTOR HP	MIXED EAT		LAT		CAPACITY		GPM	EWT (°F)	LWT (°F)	P.D. AIR (IN. WG.)	P.D. WATER (FT. H2O)	AIR VELOCITY (FPM)	MIXED EAT (°F)	LAT (°F)	CAPACITY (MBH)	GPM	EWT (°F)	LWT (°F)	P.D. AIR (IN. WG.)	P.D. WATER (FT. H2O)	AIR VELOCITY (FPM)	VOLTAGE/ PHASE	FLA (AMPS)			OCTAVE BAND 1	2	3	4	5	6	7	8		
										DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL (MBH)	SENSIBLE (MBH)																												
AHU-A-B1-1	TOWER-A BOILER 012 / TOWER-A B AMENITY	V3-ERB-3-0-26HB-12L	8500	1500	8500	2.7	2450	2	8	78	61	50	50	243	192	40	42	54	1.5	9.5	484	57	88	151	18	120	103	0.2	1.6	321	460/3	8.3	N	Y	72/77	75/80	89/90	83/90	82/93	82/88	79/84	77/79	850	
AHU-A-B1-2	TOWER-A BOILER 012 / TOWER-A LVL-1 AMENITY	V3-ERB-3-0-26HA-12P	9500	2000	9500	2.9	2600	2	8	77	61	49	49	281	219	45	42	55	1.2	11.0	541	48	90	206	45	120	103	0.2	2.7	322	460/3	8.3	N	Y	74/78	77/81	92/91	85/92	83/95	84/90	82/87	81/82	850	
AHU-A-1-1	TOWER-A LVL-P2 / TOWER-A LVL-1 DINING	V3-ERB-3-0-26HC-12M	6500	1500	6500	3.6	2250	1	8	78	61	54	54	170	127	73	42	49	1.2	8.3	370	57	89	155	16	120	100	0.1	5.4	322	460/3	17	N	Y	72/77	75/80	86/88	81/88	79/90	79/84	72/78	66/73	850	
AHU-A-1-X	TOWER-A P213 / TOWER-A KITCHEN EX MAKEUP	SCS3H-50mm TTB-AH100-EC	10000	10000	10000	3.1	2250	2	12	85	65	58	57	220	220	53	42	54	0.9	12.8	489.0	-7.0	67.0	677	69	120	100	0.3	2.4	489	460/3	18	Y	Y	70/73	83/84	81/82	75/83	78/89	78/85	78/81	72/76	3750	
AHU-L-1-1	TOWER-A / B LOBBY / TOWER-A / B LOBBY	V3-ERB-3-0-24HA	6000	450	6000	1.0	2040	2	4	76	62	54	53	138	110	20	42	56	1.4	3.2	341	64	97	251	34	120	105	0.2	4.1	523	460/3	10	N	Y	78/82	80/84	85/89	80/86	75/86	75/81	72/77	69/72	850	
AHU-B-B-1	TOWER-B P1 / TOWER-B LVL-B AMENITY	V3-CRB-3-0-24HC-12R	2500	450	2500	1.5	1920	1	4	76	61	53	53	50	48	8	42	54	0.4	1.2	346	64	92	60	5	120	96	---	2.1	346	460/3	5	N	Y	80/83	82/85	87/92	79/85	74/86	73/79	69/74	66/69	845	
AHU-B-P1-1	TOWER-B P1 / TOWER-B LVL-1 AMENITY	DB SCS3H-50MM TTB-AH150-EC	14750	1600	14750	2.4	2250	4	5	77	60	53	53	341	245	73	42	56	1.4	19.2	449	54	93	424	25	120	85	0.1	7.7	449	460/3	(21.8)	N	Y	75/77	92/92	84/84	78/84	78/89	78/84	73/78	71/75	3750	
AHU-C-1-1	TOWER-C / LVL-1 AMENITY	H3-ERB-3-0-24QC-12K	5900	1100	5900	2.0	2325	2	3	77	61	48	48	183	139	26	42	56	1.5	62.1	341	58	87	145	16	120	102	0.2	1.2	341	460/3	7	N	Y	92/92	92/92	94/94	94/94	89/89	85/85	83/83	78/78	1245	

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.
B. ALL COILS TO BE SELECTED ASSUMING 40% PROP. GLYCOL.
C.. LINE SUPPLY AND RETURN OF DUCTWORK FOR 12'-0" FROM THE UNIT WITH 1" INTERNAL AL.

NOTES:

AIR SOURCE HEAT PUMP

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	COOLING DATA							HEATING DATA							ELECTRIC DATA			FAN		COMPRESSOR			EER/ COP	FAN SOUND POWER								EMERGENCY POWER (Y/N)	OPER. WEIGHT (LBS)	NOTES
			CAPACITY (TONS)	EAT		EWT (°F)	LWT (°F)	GPM	P.D. (FT H20)	CAPACITY (MBH)	EAT		EWT (°F)	LWT (°F)	GPM	P.D. (FT H20)	MCA	MOP	VOLTAGE/ PHASE	CFM	QTY	TYPE	QTY	REFRIGERANT		OCTAVE BAND 1	2	3	4	5	6	7	8			
				DB (°F)	RH (%)						DB (°F)	RH (%)																								
ASHP-A-R-1	TOWER-A ROOF	HECOCLIMA VHA-2084(46)-4T-EC-BP-54B	49.2	87.0	40.4	56.0	42.0	92.8	12.3	587.0	35.0	72.8	102.0	120.0	71.2	6.5	133.0	160.0	460/3	46165	4	SCROLL	4	R454B	10.7 / 2.8	65	67	73	80	83	81	74	70	N	5009	
ASHP-A-R-2	TOWER-A ROOF	HECOCLIMA VHA-2142(46)-4T-EC-BP-54B	81.7	87.0	40.4	56.0	42.0	154.2	10.4	972.0	35.0	72.8	102.0	120.0	117.9	5.5	215.0	260.0	460/3	93546	8	SCROLL	4	R454B	11.1 / 2.9	69	71	77	84	87	85	78	74	N	8874	
ASHP-B-R-1	TOWER-B ROOF	HECOCLIMA VHA-2084(46)-4T-EC-BP-54B	49.2	87.0	40.4	56.0	42.0	92.8	12.3	587.0	35.0	72.8	102.0	120.0	71.2	6.5	133.0	160.0	460/3	46165	4	SCROLL	4	R454B	10.7 / 2.8	65	67	73	80	83	81	74	70	N	5009	
ASHP-B-R-2	TOWER-B ROOF	HECOCLIMA VHA-2142(46)-4T-EC-BP-54B	81.7	87.0	40.4	56.0	42.0	154.2	10.4	972.0	35.0	72.8	102.0	120.0	117.9	5.5	215.0	260.0	460/3	93546	8	SCROLL	4	R454B	11.1 / 2.9	69	71	77	84	87	85	78	74	N	8874	
ASHP-C-R-1	TOWER-C ROOF	HECOCLIMA VHA-2182(46)-4T-EC-BP-54B	101.3	87.0	40.4	56.0	42.0	191.1	11.8	1204	35.0	72.8	102.0	120.0	146.0	6.2	265	320	460/3	93291	8	SCROLL	4	R454B	10.5 /2.9	70	72	78	85	88	86	79	75	N	9864	

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION. ALL EQUIPMENT TO BE SELECTED FOR 40% POLYPROPYLENE GLYCOL.
B. EER/COP IS QUOTED AT DESIGN CONDITIONS. REFER TO SPECIFICATIONS FOR MINIMUM VALUES AT ARI CONDITIONS.

NOTES:

FIRE SMOKE DAMPERS

DESIGNATION	LOCATION / SERVICE	DIMENSIONS		ELECTRICAL CONNECTIONS		NOTES
		WIDTH (INCHES)	HEIGHT (INCHES)	VOLTAGE/ PHASE	QTY	
FSD-A-B-1	ELEC A018	12	8	120/1	1	
FSD-A-B-2	ELEC A018	24	6	120/1	1	
FSD-A-B-3	ELEVATOR CONTROL A015	24	6	120/1	1	
FSD-A-B-4	ELEVATOR CONTROL A015	12	8	120/1	1	
FSD-A-B-5	ARCADE A006 EXHAUST	20Ø		120/1	1	
FSD-A-B-6	BOILER 012	18Ø		120/1	1	
FSD-A-B-7	T2 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-B-8	T2 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-B-9	T4 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-B-10	T4 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-P2-1	ELEVATOR LOBBY	10	10	120/1	1	
FSD-A-P2-2	ELEVATOR LOBBY	6	6	120/1	1	
FSD-A-P2-3	AHU RETURN DUCT UP	36	24	120/1	1	
FSD-A-P2-4	AHU RETURN DUCT DN	36	24	120/1	1	
FSD-A-P2-5	AHU SUPPLY DUCT UP	38	18	120/1	1	
FSD-A-P2-6	AHU SUPPLY DUCT DN	38	18	120/1	1	
FSD-A-P2-7	AHU VENTILATION	18	18	120/1	1	
FSD-A-P2-8	KITCHEN A102	40	16	120/1	1	
FSD-A-1-2	N/A	--	--	--	--	
FSD-A-1-3	SUPPLY DUCT	10	10	120/1	1	
FSD-A-1-4	SUPPLY DUCT	30	16	120/1	1	
FSD-A-1-5	NOT USED	--	--	--	--	
FSD-A-1-6	TREATMENT DOUBLE A115	20Ø		120/1	1	
FSD-A-1-7	ELEVATOR LOBBY	10	10	120/1	1	
FSD-B-B-1	ELEC PANEL RM B006	10	10	120/1	1	
FSD-B-B-2	ELEC PANEL RM B006	10	10	120/1	1	
FSD-B-B-3	T3 ELEV REMTOE CNTRL RM	12	8	120/1	1	
FSD-B-B-4	T3 ELEV REMTOE CNTRL RM	12	8	120/1	1	
FSD-B-P2-1	POOL MECH P236	14	14	120/1	1	
FSD-B-P2-2	POOL MECH P236	14Ø		120/1	1	
FSD-B-P2-3	VESTIBULE P255	6Ø		120/1	1	
FSD-B-P2-4	TRASH P240	10Ø		120/1	1	
FSD-B-P2-5	TRASH P240	12Ø		120/1	1	
FSD-B-P2-6	POOL MECH P260	14	14	120/1	1	
FSD-B-P2-7	POOL MECH P260	12Ø		120/1	1	
FSD-B-P2-8	STORAGE P243	6Ø		120/1	1	
FSD-B-P2-9	FUEL STORAGE P264	12	12	120/2	1	
FSD-B-P2-10	FUEL STORAGE P264	12	12	120/3	1	
FSD-B-P2-11	MECH GEN P266	24	14	120/4	1	
FSD-B-P2-12	MECH GEN P266	14	14	120/5	1	
FSD-B-P1-1	VESTIBULE P108	6Ø		120/1	1	
FSD-B-P1-2	SUPPLY DUCT	20	20	120/1	1	
FSD-B-P1-3	EXHUAST DUCT	20	20	120/1	1	
FSD-B-P1-4	EF-B-P1-2 DUCT	12Ø		120/1	1	
FSD-B-P1-5	AHU-B-P1-1 RETURN DUCT	80	22	120/1	1	
FSD-B-P1-6	AHU-B-P1-1 SUPPLY DUCT	64	20	120/1	1	
FSD-B-P1-7	STORAGE P110	6Ø		120/1	1	
FSD-B-P1-8	EF-B-P1-1 DUCT	12Ø		120/1	1	
FSD-B-1-1	LEVEL 1 EXHAUST	12Ø		120/1	1	
FSD-B-1-2	AHU RETURN DUCT	76	14	120/1	1	
FSD-B-1-3	AHU SUPPLY DUCT	76	14	120/1	1	
FSD-B-1-4	ELEVATOR LOBBY	10	10	120/1	1	
FSD-B-1-5	ELEVATOR LOBBY	10	10	120/1	1	
FSD-C-P1-1	EF-C-P1-1 EXHAUST DUCT	14Ø		120/1	1	
FSD-C-1-1	MEP C106	8Ø		120/1	1	
FSD-C-1-2	MEP C106	30	12	120/1	1	
FSD-C-1-3	HOUSEKEEPING C105	14Ø		120/1	1	
FSD-C-1-4	HOUSEKEEPING C105	14Ø		120/1	1	
FSD-C-1-5	STORAGE C110A	24	18	120/1	1	
FSD-C-8-1	ELEC C802	16	10	120/1	1	
FSD-C-8-2	ELEC C802	10	10	120/1	1	

GENERAL NOTES:
A. RUSKIN IS BASIS OF DESIGN

NOTES:
1. 120 VOLT OPERATORS. PROVIDE QUANTITY REQUIRED FOR SIZE SCHEDULED.
2. MINIMUM FIRESTAT TEMPERATURE IS 165DEG F. PROVIDE HIGHER FIRESTAT TEMPERATURE FOR SMOKE CONTROL SYSTEMS.
3. INITIATING DEVICES SHALL EITHER BE DUCT SMOKE DETECTOR (DD), AREA SMOKE DETECTOR (AD) OR FIRE ALARM SYSTEM (FAS).
4. ALL ACTIVE SMOKE CONTROL FIRE SMOKE DAMPERS SHALL BE ON EMERGENCY POWER.
5. ALL FIRE SMOKE DAMPERS ON A SINGLE SYSTEM SHALL CLOSE ON DETECTION OF SMOKE AND SHUTDOWN OF THE AIR MOVING SYSTEMS.

GARAGE EXHAUST FAN CFM VALUES

EXHAUST FAN DESIGNATIONS	LOCATION/ SERVICE	CO CONCENTRATION				NOTES:
		< 25 PPM	BETWEEN 25-50 PPM	> 50 PPM SINGLE ZONE	> 50 PPM DUAL ZONE	
GEF-A-P2-1, 2, 3	TOWER-A P2	500	2500	6400	7500	1, 2, 3
GEF-B-P1-1	TOWER-B P2	1000	7500	14325	12700	1, 2
GEF-B-P1-2, 3, 4, 5	TOWER-B P1	800	6800	11325	N/A	1
GEF-C-P1-1	TOWER-C P1	400	1600	5800	N/A	1

NOTES:
1. SEE SPEC 23 09 63 CARBON MONOXIDE AND FAN CONTROL SYSTEMS FOR MORE INFORMATION
2. IF BOTH TOWER-A P2 AND TOWER-B P2 ARE ABOVE 50-PPM USE THE DUAL ZONE CFM VALUE
3. THESE FANS ALSO CONTROLLED VIA THERMOSTAT SHOWN ON SHEET M2.2A.02 G/L E/7. WHEN THERMOSTAT IS ABOVE 95-F OPERATE FANS AT 6400-CFM UNTIL THERMOSTAT REACHES 85-F.

GLYCOL PUMP SUPPLY UNIT SCHEDULE

DESIGNATION	LOCATION	TYPE	MANUF-MODEL NUMBER	SERVICE	PUMP				TANK VOLUME (GALLONS)	OPERATING WEIGHT (LBS)	NOTES
					FLOWRATE	PRESSURE	MOTOR				
					(GPM)	(PSIG)	(HP)	VOLTAGE/ PHASE			
GPS-A-B-1	LEVEL B	DUPLEX	JOHN WOOD JWDP-53-055	CHILLED/HOT WATER SYSTEM	3.2	54	1/3 X (2)	120/1	55	190	1
GPS-B-P1-1	LEVEL P1	SIMPLEX	JOHN WOOD JWGP-53-055	CHILLED WATER SYSTEM	3.2	54	1/3 X (2)	120/1	55	160	1
GPS-B-P1-2	LEVEL P1	DUPLEX	JOHN WOOD JWDP-53-055	HOT WATER/SNOWMELT SYSTEM	3.2	54	1/3 X (2)	120/1	55	190	1
GPS-C-1-1	LEVEL 1	DUPLEX	JOHN WOOD JWDP-53-055	CHILLED/HOT WATER SYSTEM	3.2	54	1/3 X (2)	120/1	55	190	1

NOTES:
1. TANK FILLED WITH A 40% PROPYLENE GLYCOL MIXTURE(PREMIXED).

AIR OUTLETS AND INLETS

DESIGNATION	MANUF. MODEL NUMBER	TYPE OF SERVICE	FACE DIMENSIONS	NOTES
CD-A	PRICE SPD	SUPPLY	24x24	1
CD-B	PRICE SPD	SUPPLY	12x12	1
SR-A	PRICE 32	SUPPLY	SEE PLANS	
SR-B	PRICE 540/640	RESIDENTIAL SUPPLY	SEE PLANS	
SR-C	PRICE RCG	STAIRWELL SUPPLY	SEE PLANS	
JD-A	PRICE ND	JET NOZZLE	SEE PLANS	9
EG-A	PRICE PDDR	RETURN/EXHAUST	24x24	2
EG-B	PRICE PDDR	RETURN/EXHAUST	12x12	2
EG-C	PRICE SPD	RETURN/EXHAUST	12x12	2
ER-A	PRICE 630	RETURN/EXHAUST	SEE PLANS	
FD-A	PRICE LBP 15A	SUPPLY	SEE PLANS	7, 8
LD-A	PRICE SD	SUPPLY	4'-0", 1.5-INCH SLOT	10Ø INLET
LD-B	PRICE SDS150	SUPPLY	SEE PLANS	3
LD-C	PRICE SDS150	RETURN	SEE PLANS	4
LD-D	PRICE SD	SUPPLY	4'-0", 3-INCH SLOT	10Ø INLET
LD-E		SUPPLY		
LDA-A	PRICE SDS150	SUPPLY	3'-0", 5" INLET	5, 6
LDA-B	PRICE SDS150	SUPPLY	4'-0", 6" INLET	5, 6
LDA-C	PRICE SDS150	SUPPLY	5'-0", 6" INLET	5, 6

GENERAL NOTES:
1. INLET SIZES NOTED ARE THE FINAL TRANSITION FROM BRANCH DUCT TO PLENUM CONNECTION. BRANCH DUCT SIZING TO PLENUM CONNECTION PER PLANS.

NOTES:
5. PROVIDE SDB150 PLENUM WITH VCR5EC CABLE OPERATED DAMPER.
6. PROVIDE TYPE-3 SURFACE MOUNT (CONTRACTOR SHALL CONFIRM FINAL INSTALL DETAIL WITH ARCHITECT)
7. PROVIDE CONTINUOUS PLENUM WITHIN INTERSTITIAL SPACE.
8. CONFIRM BORDER TYPE WITH ARCHITECT BEFORE PROCUREMENT.
9. PROVIDE INTEGRAL DAMPER

UNIT HEATER - GAS

DESIGNATION	MANUFACTURER MODEL NUMBER	LOCATION / SERVICE	GAS HEATING			DISTRIBUTION FAN			EXHAUSTER FAN			VOLTAGE/ PHASE	FLA AMPS	MOP (AMPS)	EMERG. POWER (Y/N)	OPER. WEIGHT (LBS)	NOTES
			CAPACITY (MBH)	INPUT MBH	GAS PIPE SIZE (IN)	CFM	EXTERNAL SP INCHES	HP	COMBUSTION (CFM)	HP	FLUE SIZE						
UH-A-P2-1	APPLIED AIR MODEL 65	TOWER-A GARAGE / TOWER-A GARAGE INTAKE	650	815	1.25	8,500	1.0	10	110	0.3	10	460/3	14.4	50	N	2,600	1
UH-B-P1-1	APPLIED AIR MODEL 40	TOWER-B GARAGE / TOWER-B GARAGE INTAKE	400	500	1.00	6,000	0.3	2	110	0.3	8	460/3	6.7	20	N	1,750	
UH-C-P1-1	STERLING NEXUS 150	TOWER-C GARAGE / TOWER-C GARAGE INTAKE	143	150	1.00	2,650	0.2	2 @ 1/2	---	---	2	120/1	17.6	25	N	120	
UH-C-P1-2	STERLING NEXUS 150	TOWER-C GARAGE / TOWER-C GARAGE DOOR	143	150	1.00	2,650	0.2	2 @ 1/2	---	---	2	120/1	17.6	25	N	120	

GENERAL NOTES:
A) PROVIDE BASE INLET DAMPER FOR HORIZONTAL UNIT

NUMBERED NOTES:
1. PROVIDE FLUE BOOSTER FAN FOR 1" EXT SP.

UNIT HEATER - ELECTRIC

DESIGNATION	LOCATION / SERVICE	CADET MODEL NUMBER	kW	VOLTAGE/ PHASE	AMPS	EMERGENCY POWER (Y/N)	OPER. WEIGHT (LBS)	NOTES
UH-A	STAIR	CSC101W	1	120/1	3.6	N	7	1,2

GENERAL NOTES:

NOTES:
1. COORDINATE EXACT COLOR, FINISH, AND MOUNTING LOCATION WITH ARCHITECT.
2. PROVIDE REMOTE MOUNTED THERMOSTAT.

PLATE FRAME HEAT EXCHANGER SCHEDULE

DESIGNATION	LOCATION	SERVICE	MANUF. MODEL NUMBER	CENTRAL UTILITY PLANT SIDE						BUILDING SIDE						OPERATING WEIGHT	NOTES
				FLUID	GPM	EWT (°F)	LWT (°F)	PD (PSIG)	RATED PRESSURE (PSIG)	FLUID	GPM	EWT (°F)	LWT (°F)	PD (PSIG)	RATED PRESSURE (PSIG)	(LBS)	
HX-A-1-1	LEVEL 1	CHILLED WATER	BELL & GOSSETT - AP86-144	40% PROPYLENE GLYCOL	245	40	54	9.9	150	WATER	223	56	42	5.7	150	4,606	1
HX-A-1-2	LEVEL 1	HOT WATER	BELL & GOSSETT - AP86-82	40% PROPYLENE GLYCOL	224	122	102	9.5	150	WATER	205	100	120	8.4	150	3,869	1
HX-B-1-1	LEVEL 1	CHILLED WATER	BELL & GOSSETT - AP86-144	40% PROPYLENE GLYCOL	245	40	54	9.9	150	WATER	223	56	42	5.7	150	4,606	1
HX-B-1-2	LEVEL 1	HOT WATER	BELL & GOSSETT - AP86-82	40% PROPYLENE GLYCOL	224	122	102	9.5	150	WATER	205	100	120	8.4	150	3,869	1
HX-C-1-1	LEVEL 1	CHILLED WATER	BELL & GOSSETT - AP86-121	40% PROPYLENE GLYCOL	189	40	54	9.8	150	WATER	172	56	42	5.6	150	4,188	1
HX-C-1-2	LEVEL 1	HOT WATER	BELL & GOSSETT - AP86-65	40% PROPYLENE GLYCOL	174	122	102	9.8	150	WATER	158	100	120	9.2	150	3,616	1

NOTES:
1.BUILD IN ACCORANCE WITH THE AHRI STANDARD

BUFFER TANK

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	TANK VOLUME (GALLONS)	PRESS. RATING (PSIG)	OPERATING WEIGHT (LBS)	NOTES
BT-A-B-1	BOILER RM A012 / BUILDING A HOT WATER	TACO BTH0350F06-125N	350	125	3825	1
BT-A-B-2	BOILER RM A012 / BUILDING A CHILLED WATER	TACO BTH0350F06-125N	350	125	3825	1
BT-B-R-1	TOWER-B ROOF / BUILDING B CHILLED WATER	TACO BTH180F04-125N	180	125	2090	1
BT-B-R-2	TOWER-B ROOF / BUILDING B HOT WATER	TACO BTH180F04-125N	180	125	2090	1
BT-B-R-3	TOWER-B ROOF / BUILDING B CHILLED WATER	TACO BTH180F04-125N	180	125	2090	1
BT-B-R-4	TOWER-B ROOF / BUILDING B HOT WATER	TACO BTH180F04-125N	180	125	2090	1
BT-C-1-1	MEP C109 / BUILDING C CHILLED WATER	TACO BTH0700F06-125N	700	125	7130	1
BT-C-1-2	MEP C109 / BUILDING C HOT WATER	TACO BTH0700F06-125N	700	125	7130	1

NOTES:
1. TOP VENT & BOTTOM DRAIN.

KITCHEN HOOD AIR BALANCE

HOOD TAG	LOCATION	HOOD EXHAUST CFM	MAKE-UP CFM SUPPLY TO HOOD	MAKE-UP CFM SUPPLY TO SPACE	ROOM OFFSET	RATIO SUPPLY CFM TO EXHAUST CFM	VAV SUPPLY AIR TERMINAL		MAKE-UP AIR UNIT	
							TAG	MIN. CFM	TAG	MIN. CFM
HOOD #1	BLDG A LEVEL 1	3120	2496	0	-624	80%	FPT-A-1-10	624	MUA-A-P2-1	2496
HOOD #2	BLDG A LEVEL 1	3120	2652	0	-468	85%	FPT-A-1-10	468	MUA-A-P2-1	2652
HOOD #3	BLDG A LEVEL 1	1050	0	0	-1050	N/A	FPT-A-1-10	1050	N/A	N/A

Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Maratac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O:
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by
job no.
date 5/31/2024

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IFC Set 3 of 3
5/31/2024

MECHANICAL SCHEDULES

M0.03

AIR HANDLING UNIT (COOLING/HEATING)

DESIGNATION	LOCATION / SERVICE	MODEL NUMBER	TOTAL AIFLOW CFM	MINIMUM OUTSIDE AIR CFM	SUPPLY FAN					HYDRONIC COOLING COIL											HYDRONIC HEATING COIL									ELECTRICAL DATA		EMERGENCY POWER (Y/N)	VAR. SPEED (Y/N)	FAN SOUND POWER								OPERATING WEIGHT (LBS)	NOTES
					CFM	EXT. S.P. (IN. WG.)	RPM	QUANTITY	MOTOR HP	MIXED EAT		LAT		CAPACITY		GPM	EWT (°F)	LWT (°F)	P.D. AIR (IN. WG.)	P.D. WATER (FT. H2O)	AIR VELOCITY (FPM)	MIXED EAT (°F)	LAT (°F)	CAPACITY (MBH)	GPM	EWT (°F)	LWT (°F)	P.D. AIR (IN. WG.)	P.D. WATER (FT. H2O)	AIR VELOCITY (FPM)	VOLTAGE/ PHASE	FLA (AMPS)			OCTAVE BAND 1	2	3	4	5	6	7	8		
										DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL (MBH)	SENSIBLE (MBH)																												
AHU-A-B1-1	TOWER-A BOILER 012 / TOWER-A B AMENITY	V3-ERB-3-0-26HB-12L	8500	1500	8500	2.7	2450	2	8	78	61	50	50	243	192	40	42	54	1.5	9.5	484	57	88	151	18	120	103	0.2	1.6	321	460/3	8.3	N	Y	72/77	75/80	89/90	83/90	82/93	82/88	79/84	77/79	850	
AHU-A-B1-2	TOWER-A BOILER 012 / TOWER-A LVL-1 AMENITY	V3-ERB-3-0-26HA-12P	9500	2000	9500	2.9	2600	2	8	77	61	49	49	281	219	45	42	55	1.2	11.0	541	48	90	206	45	120	103	0.2	2.7	322	460/3	8.3	N	Y	74/78	77/81	92/91	85/92	83/95	84/90	82/87	81/82	850	
AHU-A-1-1	TOWER-A LVL-P2 / TOWER-A LVL-1 DINING	V3-ERB-3-0-26HC-12M	6500	1500	6500	3.6	2250	1	8	78	61	54	54	170	127	73	42	49	1.2	8.3	370	57	89	155	16	120	100	0.1	5.4	322	460/3	17	N	Y	72/77	75/80	86/88	81/88	79/90	79/84	72/78	66/73	850	
AHU-A-1-X	TOWER-A P213 / TOWER-A KITCHEN EX MAKEUP	SCS3H-50mm TTB-AH100-EC	10000	10000	10000	3.1	2250	2	12	85	65	58	57	220	220	53	42	54	0.9	12.8	489.0	-7.0	67.0	677	69	120	100	0.3	2.4	489	460/3	18	Y	Y	70/73	83/84	81/82	75/83	78/89	78/85	78/81	72/76	3750	
AHU-L-1-1	TOWER-A / B LOBBY / TOWER-A / B LOBBY	V3-ERB-3-0-24HA	6000	450	6000	1.0	2040	2	4	76	62	54	53	138	110	20	42	56	1.4	3.2	341	64	97	251	34	120	105	0.2	4.1	523	460/3	10	N	Y	78/82	80/84	85/89	80/86	75/86	75/81	72/77	69/72	850	
AHU-B-B-1	TOWER-B P1 / TOWER-B LVL-B AMENITY	V3-CRB-3-0-24HC-12R	2500	450	2500	1.5	1920	1	4	76	61	53	53	50	48	8	42	54	0.4	1.2	346	64	92	60	5	120	96	---	2.1	346	460/3	5	N	Y	80/83	82/85	87/92	79/85	74/86	73/79	69/74	66/69	845	
AHU-B-P1-1	TOWER-B P1 / TOWER-B LVL-1 AMENITY	DB SCS3H-50MM TTB-AH150-EC	14750	1600	14750	2.4	2250	4	5	77	60	53	53	341	245	73	42	56	1.4	19.2	449	54	93	424	25	120	85	0.1	7.7	449	460/3	(21.8)	N	Y	75/77	92/92	84/84	78/84	78/89	78/84	73/78	71/75	3750	
AHU-C-1-1	TOWER-C / LVL-1 AMENITY	H3-ERB-3-0-24QC-12K	5900	1100	5900	2.0	2325	2	3	77	61	48	48	183	139	26	42	56	1.5	62.1	341	58	87	145	16	120	102	0.2	1.2	341	460/3	7	N	Y	92/92	92/92	94/94	94/94	89/89	85/85	83/83	78/78	1245	

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.
B. ALL COILS TO BE SELECTED ASSUMING 40% PROP. GLYCOL.
C.. LINE SUPPLY AND RETURN OF DUCTWORK FOR 12'-0" FROM THE UNIT WITH 1" INTERNAL AL.

NOTES:

AIR SOURCE HEAT PUMP

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	COOLING DATA							HEATING DATA							ELECTRIC DATA			FAN		COMPRESSOR			EER/ COP	FAN SOUND POWER								EMERGENCY POWER (Y/N)	OPER. WEIGHT (LBS)	NOTES
			CAPACITY (TONS)	EAT		EWT (°F)	LWT (°F)	GPM	P.D. (FT H20)	CAPACITY (MBH)	EAT		EWT (°F)	LWT (°F)	GPM	P.D. (FT H20)	MCA	MOP	VOLTAGE/ PHASE	CFM	QTY	TYPE	QTY	REFRIGERANT		OCTAVE BAND 1	2	3	4	5	6	7	8			
				DB (°F)	RH (%)						DB (°F)	RH (%)																								
ASHP-A-R-1	TOWER-A ROOF	HECOCLIMA VHA-2084(46)-4T-EC-BP-54B	49.2	87.0	40.4	56.0	42.0	92.8	12.3	587.0	35.0	72.8	102.0	120.0	71.2	6.5	133.0	160.0	460/3	46165	4	SCROLL	4	R454B	10.7 / 2.8	65	67	73	80	83	81	74	70	N	5009	
ASHP-A-R-2	TOWER-A ROOF	HECOCLIMA VHA-2142(46)-4T-EC-BP-54B	81.7	87.0	40.4	56.0	42.0	154.2	10.4	972.0	35.0	72.8	102.0	120.0	117.9	5.5	215.0	260.0	460/3	93546	8	SCROLL	4	R454B	11.1 / 2.9	69	71	77	84	87	85	78	74	N	8874	
ASHP-B-R-1	TOWER-B ROOF	HECOCLIMA VHA-2084(46)-4T-EC-BP-54B	49.2	87.0	40.4	56.0	42.0	92.8	12.3	587.0	35.0	72.8	102.0	120.0	71.2	6.5	133.0	160.0	460/3	46165	4	SCROLL	4	R454B	10.7 / 2.8	65	67	73	80	83	81	74	70	N	5009	
ASHP-B-R-2	TOWER-B ROOF	HECOCLIMA VHA-2142(46)-4T-EC-BP-54B	81.7	87.0	40.4	56.0	42.0	154.2	10.4	972.0	35.0	72.8	102.0	120.0	117.9	5.5	215.0	260.0	460/3	93546	8	SCROLL	4	R454B	11.1 / 2.9	69	71	77	84	87	85	78	74	N	8874	
ASHP-C-R-1	TOWER-C ROOF	HECOCLIMA VHA-2182(46)-4T-EC-BP-54B	101.3	87.0	40.4	56.0	42.0	191.1	11.8	1204	35.0	72.8	102.0	120.0	146.0	6.2	265	320	460/3	93291	8	SCROLL	4	R454B	10.5 /2.9	70	72	78	85	88	86	79	75	N	9864	

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION. ALL EQUIPMENT TO BE SELECTED FOR 40% POLYPROPYLENE GLYCOL.
B. EER/COP IS QUOTED AT DESIGN CONDITIONS. REFER TO SPECIFICATIONS FOR MINIMUM VALUES AT ARI CONDITIONS.

NOTES:

FIRE SMOKE DAMPERS

DESIGNATION	LOCATION / SERVICE	DIMENSIONS		ELECTRICAL CONNECTIONS		NOTES
		WIDTH (INCHES)	HEIGHT (INCHES)	VOLTAGE/ PHASE	QTY	
FSD-A-B-1	ELEC A018	12	8	120/1	1	
FSD-A-B-2	ELEC A018	24	6	120/1	1	
FSD-A-B-3	ELEVATOR CONTROL A015	24	6	120/1	1	
FSD-A-B-4	ELEVATOR CONTROL A015	12	8	120/1	1	
FSD-A-B-5	ARCADE A006 EXHAUST	20Ø		120/1	1	
FSD-A-B-6	BOILER 012	18Ø		120/1	1	
FSD-A-B-7	T2 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-B-8	T2 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-B-9	T4 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-B-10	T4 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-P2-1	ELEVATOR LOBBY	10	10	120/1	1	
FSD-A-P2-2	ELEVATOR LOBBY	6	6	120/1	1	
FSD-A-P2-3	AHU RETURN DUCT UP	36	24	120/1	1	
FSD-A-P2-4	AHU RETURN DUCT DN	36	24	120/1	1	
FSD-A-P2-5	AHU SUPPLY DUCT UP	38	18	120/1	1	
FSD-A-P2-6	AHU SUPPLY DUCT DN	38	18	120/1	1	
FSD-A-P2-7	AHU VENTILATION	18	18	120/1	1	
FSD-A-P2-8	KITCHEN A102	40	16	120/1	1	
FSD-A-1-2	N/A	--	--	--	--	
FSD-A-1-3	SUPPLY DUCT	10	10	120/1	1	
FSD-A-1-4	SUPPLY DUCT	30	16	120/1	1	
FSD-A-1-5	NOT USED	--	--	--	--	
FSD-A-1-6	TREATMENT DOUBLE A115	20Ø		120/1	1	
FSD-A-1-7	ELEVATOR LOBBY	10	10	120/1	1	
FSD-B-B-1	ELEC PANEL RM B006	10	10	120/1	1	
FSD-B-B-2	ELEC PANEL RM B006	10	10	120/1	1	
FSD-B-B-3	T3 ELEV REMTOE CNTRL RM	12	8	120/1	1	
FSD-B-B-4	T3 ELEV REMTOE CNTRL RM	12	8	120/1	1	
FSD-B-P2-1	POOL MECH P236	14	14	120/1	1	
FSD-B-P2-2	POOL MECH P236	14Ø		120/1	1	
FSD-B-P2-3	VESTIBULE P255	6Ø		120/1	1	
FSD-B-P2-4	TRASH P240	10Ø		120/1	1	
FSD-B-P2-5	TRASH P240	12Ø		120/1	1	
FSD-B-P2-6	POOL MECH P260	14	14	120/1	1	
FSD-B-P2-7	POOL MECH P260	12Ø		120/1	1	
FSD-B-P2-8	STORAGE P243	6Ø		120/1	1	
FSD-B-P2-9	FUEL STORAGE P264	12	12	120/2	1	
FSD-B-P2-10	FUEL STORAGE P264	12	12	120/3	1	
FSD-B-P2-11	MECH GEN P266	24	14	120/4	1	
FSD-B-P2-12	MECH GEN P266	14	14	120/5	1	
FSD-B-P1-1	VESTIBULE P108	6Ø		120/1	1	
FSD-B-P1-2	SUPPLY DUCT	20	20	120/1	1	
FSD-B-P1-3	EXHUAST DUCT	20	20	120/1	1	
FSD-B-P1-4	EF-B-P1-2 DUCT	12Ø		120/1	1	
FSD-B-P1-5	AHU-B-P1-1 RETURN DUCT	80	22	120/1	1	
FSD-B-P1-6	AHU-B-P1-1 SUPPLY DUCT	64	20	120/1	1	
FSD-B-P1-7	STORAGE P110	6Ø		120/1	1	
FSD-B-P1-8	EF-B-P1-1 DUCT	12Ø		120/1	1	
FSD-B-1-1	LEVEL 1 EXHAUST	12Ø		120/1	1	
FSD-B-1-2	AHU RETURN DUCT	76	14	120/1	1	
FSD-B-1-3	AHU SUPPLY DUCT	76	14	120/1	1	
FSD-B-1-4	ELEVATOR LOBBY	10	10	120/1	1	
FSD-B-1-5	ELEVATOR LOBBY	10	10	120/1	1	
FSD-C-P1-1	EF-C-P1-1 EXHAUST DUCT	14Ø		120/1	1	
FSD-C-1-1	MEP C106	8Ø		120/1	1	
FSD-C-1-2	MEP C106	30	12	120/1	1	
FSD-C-1-3	HOUSEKEEPING C105	14Ø		120/1	1	
FSD-C-1-4	HOUSEKEEPING C105	14Ø		120/1	1	
FSD-C-1-5	STORAGE C110A	24	18	120/1	1	
FSD-C-8-1	ELEC C802	16	10	120/1	1	
FSD-C-8-2	ELEC C802	10	10	120/1	1	

GENERAL NOTES:
A. RUSKIN IS BASIS OF DESIGN

NOTES:
1. 120 VOLT OPERATORS. PROVIDE QUANTITY REQUIRED FOR SIZE SCHEDULED.
2. MINIMUM FIRESTAT TEMPERATURE IS 165DEG F. PROVIDE HIGHER FIRESTAT TEMPERATURE FOR SMOKE CONTROL SYSTEMS.
3. INITIATING DEVICES SHALL EITHER BE DUCT SMOKE DETECTOR (DD), AREA SMOKE DETECTOR (AD) OR FIRE ALARM SYSTEM (FAS).
4. ALL ACTIVE SMOKE CONTROL FIRE SMOKE DAMPERS SHALL BE ON EMERGENCY POWER.
5. ALL FIRE SMOKE DAMPERS ON A SINGLE SYSTEM SHALL CLOSE ON DETECTION OF SMOKE AND SHUTDOWN OF THE AIR MOVING SYSTEMS.

GARAGE EXHAUST FAN CFM VALUES

EXHAUST FAN DESIGNATIONS	LOCATION/ SERVICE	CO CONCENTRATION				NOTES:
		< 25 PPM	BETWEEN 25-50 PPM	> 50 PPM SINGLE ZONE	> 50 PPM DUAL ZONE	
GEF-A-P2-1, 2, 3	TOWER-A P2	500	2500	6400	7500	1, 2, 3
GEF-B-P1-1	TOWER-B P2	1000	7500	14325	12700	1, 2
GEF-B-P1-2, 3, 4, 5	TOWER-B P1	800	6800	11325	N/A	1
GEF-C-P1-1	TOWER-C P1	400	1600	5800	N/A	1

NOTES:
1. SEE SPEC 23 09 63 CARBON MONOXIDE AND FAN CONTROL SYSTEMS FOR MORE INFORMATION
2. IF BOTH TOWER-A P2 AND TOWER-B P2 ARE ABOVE 50-PPM USE THE DUAL ZONE CFM VALUE
3. THESE FANS ALSO CONTROLLED VIA THERMOSTAT SHOWN ON SHEET M2.2A.02 G/L E/7. WHEN THERMOSTAT IS ABOVE 95-F OPERATE FANS AT 6400-CFM UNTIL THERMOSTAT REACHES 85-F.

GLYCOL PUMP SUPPLY UNIT SCHEDULE

DESIGNATION	LOCATION	TYPE	MANUF-MODEL NUMBER	SERVICE	PUMP				TANK VOLUME (GALLONS)	OPERATING WEIGHT (LBS)	NOTES
					FLOWRATE	PRESSURE	MOTOR				
					(GPM)	(PSIG)	(HP)	VOLTAGE/ PHASE			
GPS-A-B-1	LEVEL B	DUPLEX	JOHN WOOD JWDP-53-055	CHILLED/HOT WATER SYSTEM	3.2	54	1/3 X (2)	120/1	55	190	1
GPS-B-P1-1	LEVEL P1	SIMPLEX	JOHN WOOD JWGP-53-055	CHILLED WATER SYSTEM	3.2	54	1/3 X (2)	120/1	55	160	1
GPS-B-P1-2	LEVEL P1	DUPLEX	JOHN WOOD JWDP-53-055	HOT WATER/SNOWMELT SYSTEM	3.2	54	1/3 X (2)	120/1	55	190	1
GPS-C-1-1	LEVEL 1	DUPLEX	JOHN WOOD JWDP-53-055	CHILLED/HOT WATER SYSTEM	3.2	54	1/3 X (2)	120/1	55	190	1

NOTES:
1. TANK FILLED WITH A 40% PROPYLENE GLYCOL MIXTURE(PREMIXED).

AIR OUTLETS AND INLETS

DESIGNATION	MANUF. MODEL NUMBER	TYPE OF SERVICE	FACE DIMENSIONS	NOTES
CD-A	PRICE SPD	SUPPLY	24x24	1
CD-B	PRICE SPD	SUPPLY	12x12	1
SR-A	PRICE 32	SUPPLY	SEE PLANS	
SR-B	PRICE 540/640	RESIDENTIAL SUPPLY	SEE PLANS	
SR-C	PRICE RCG	STAIRWELL SUPPLY	SEE PLANS	
JD-A	PRICE ND	JET NOZZLE	SEE PLANS	9
EG-A	PRICE PDDR	RETURN/EXHAUST	24x24	2
EG-B	PRICE PDDR	RETURN/EXHAUST	12x12	2
EG-C	PRICE SPD	RETURN/EXHAUST	12x12	2
ER-A	PRICE 630	RETURN/EXHAUST	SEE PLANS	
FD-A	PRICE LBP 15A	SUPPLY	SEE PLANS	7, 8
LD-A	PRICE SD	SUPPLY	4'-0", 1.5-INCH SLOT	10Ø INLET
LD-B	PRICE SDS150	SUPPLY	SEE PLANS	3
LD-C	PRICE SDS150	RETURN	SEE PLANS	4
LD-D	PRICE SD	SUPPLY	4'-0", 3-INCH SLOT	10Ø INLET
LD-E		SUPPLY		
LDA-A	PRICE SDS150	SUPPLY	3'-0", 5" INLET	5, 6
LDA-B	PRICE SDS150	SUPPLY	4'-0", 6" INLET	5, 6
LDA-C	PRICE SDS150	SUPPLY	5'-0", 6" INLET	5, 6

GENERAL NOTES:
1. INLET SIZES NOTED ARE THE FINAL TRANSITION FROM BRANCH DUCT TO PLENUM CONNECTION. BRANCH DUCT SIZING TO PLENUM CONNECTION PER PLANS.

NOTES:
5. PROVIDE SDB150 PLENUM WITH VCR5EC CABLE OPERATED DAMPER.
6. PROVIDE TYPE-3 SURFACE MOUNT (CONTRACTOR SHALL CONFIRM FINAL INSTALL DETAIL WITH ARCHITECT)
7. PROVIDE CONTINUOUS PLENUM WITHIN INTERSTITIAL SPACE.
8. CONFIRM BORDER TYPE WITH ARCHITECT BEFORE PROCUREMENT.
9. PROVIDE INTEGRAL DAMPER

UNIT HEATER - GAS

DESIGNATION	MANUFACTURER MODEL NUMBER	LOCATION / SERVICE	GAS HEATING			DISTRIBUTION FAN			EXHAUSTER FAN			VOLTAGE/ PHASE	FLA AMPS	MOP (AMPS)	EMERG. POWER (Y/N)	OPER. WEIGHT (LBS)	NOTES
			CAPACITY (MBH)	INPUT MBH	GAS PIPE SIZE (IN)	CFM	EXTERNAL SP INCHES	HP	COMBUSTION (CFM)	HP	FLUE SIZE						
UH-A-P2-1	APPLIED AIR MODEL 65	TOWER-A GARAGE / TOWER-A GARAGE INTAKE	650	815	1.25	8,500	1.0	10	110	0.3	10	460/3	14.4	50	N	2,600	1
UH-B-P1-1	APPLIED AIR MODEL 40	TOWER-B GARAGE / TOWER-B GARAGE INTAKE	400	500	1.00	6,000	0.3	2	110	0.3	8	460/3	6.7	20	N	1,750	
UH-C-P1-1	STERLING NEXUS 150	TOWER-C GARAGE / TOWER-C GARAGE INTAKE	143	150	1.00	2,650	0.2	2 @ 1/2	---	---	2	120/1	17.6	25	N	120	
UH-C-P1-2	STERLING NEXUS 150	TOWER-C GARAGE / TOWER-C GARAGE DOOR	143	150	1.00	2,650	0.2	2 @ 1/2	---	---	2	120/1	17.6	25	N	120	

GENERAL NOTES:
A) PROVIDE BASE INLET DAMPER FOR HORIZONTAL UNIT

NUMBERED NOTES:
1. PROVIDE FLUE BOOSTER FAN FOR 1" EXT SP.

UNIT HEATER - ELECTRIC

DESIGNATION	LOCATION / SERVICE	CADET MODEL NUMBER	kW	VOLTAGE/ PHASE	AMPS	EMERGENCY POWER (Y/N)	OPER. WEIGHT (LBS)	NOTES
UH-A	STAIR	CSC101W	1	120/1	3.6	N	7	1,2

GENERAL NOTES:

NOTES:
1. COORDINATE EXACT COLOR, FINISH, AND MOUNTING LOCATION WITH ARCHITECT.
2. PROVIDE REMOTE MOUNTED THERMOSTAT.

PLATE FRAME HEAT EXCHANGER SCHEDULE

DESIGNATION	LOCATION	SERVICE	MANUF. MODEL NUMBER	CENTRAL UTILITY PLANT SIDE						BUILDING SIDE						OPERATING WEIGHT	NOTES
				FLUID	GPM	EWT (°F)	LWT (°F)	PD (PSIG)	RATED PRESSURE (PSIG)	FLUID	GPM	EWT (°F)	LWT (°F)	PD (PSIG)	RATED PRESSURE (PSIG)	(LBS)	
HX-A-1-1	LEVEL 1	CHILLED WATER	BELL & GOSSETT - AP86-144	40% PROPYLENE GLYCOL	245	40	54	9.9	150	WATER	223	56	42	5.7	150	4,606	1
HX-A-1-2	LEVEL 1	HOT WATER	BELL & GOSSETT - AP86-82	40% PROPYLENE GLYCOL	224	122	102	9.5	150	WATER	205	100	120	8.4	150	3,869	1
HX-B-1-1	LEVEL 1	CHILLED WATER	BELL & GOSSETT - AP86-144	40% PROPYLENE GLYCOL	245	40	54	9.9	150	WATER	223	56	42	5.7	150	4,606	1
HX-B-1-2	LEVEL 1	HOT WATER	BELL & GOSSETT - AP86-82	40% PROPYLENE GLYCOL	224	122	102	9.5	150	WATER	205	100	120	8.4	150	3,869	1
HX-C-1-1	LEVEL 1	CHILLED WATER	BELL & GOSSETT - AP86-121	40% PROPYLENE GLYCOL	189	40	54	9.8	150	WATER	172	56	42	5.6	150	4,188	1
HX-C-1-2	LEVEL 1	HOT WATER	BELL & GOSSETT - AP86-65	40% PROPYLENE GLYCOL	174	122	102	9.8	150	WATER	158	100	120	9.2	150	3,616	1

NOTES:
1.BUILD IN ACCORANCE WITH THE AHRI STANDARD

BUFFER TANK

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	TANK VOLUME (GALLONS)	PRESS. RATING (PSIG)	OPERATING WEIGHT (LBS)	NOTES
BT-A-B-1	BOILER RM A012 / BUILDING A HOT WATER	TACO BTH0350F06-125N	350	125	3825	1
BT-A-B-2	BOILER RM A012 / BUILDING A CHILLED WATER	TACO BTH0350F06-125N	350	125	3825	1
BT-B-R-1	TOWER-B ROOF / BUILDING B CHILLED WATER	TACO BTH180F04-125N	180	125	2090	1
BT-B-R-2	TOWER-B ROOF / BUILDING B HOT WATER	TACO BTH180F04-125N	180	125	2090	1
BT-B-R-3	TOWER-B ROOF / BUILDING B CHILLED WATER	TACO BTH180F04-125N	180	125	2090	1
BT-B-R-4	TOWER-B ROOF / BUILDING B HOT WATER	TACO BTH180F04-125N	180	125	2090	1
BT-C-1-1	MEP C109 / BUILDING C CHILLED WATER	TACO BTH0700F06-125N	700	125	7130	1
BT-C-1-2	MEP C109 / BUILDING C HOT WATER	TACO BTH0700F06-125N	700	125	7130	1

NOTES:
1. TOP VENT & BOTTOM DRAIN.

KITCHEN HOOD AIR BALANCE

HOOD TAG	LOCATION	HOOD EXHAUST CFM	MAKE-UP CFM SUPPLY TO HOOD	MAKE-UP CFM SUPPLY TO SPACE	ROOM OFFSET	RATIO SUPPLY CFM TO EXHAUST CFM	VAV SUPPLY AIR TERMINAL		MAKE-UP AIR UNIT	
							TAG	MIN. CFM	TAG	MIN. CFM
HOOD #1	BLDG A LEVEL 1	3120	2496	0	-624	80%	FPT-A-1-10	624	MUA-A-P2-1	2496
HOOD #2	BLDG A LEVEL 1	3120	2652	0	-468	85%	FPT-A-1-10	468	MUA-A-P2-1	2652
HOOD #3	BLDG A LEVEL 1	1050	0	0	-1050	N/A	FPT-A-1-10	1050	N/A	N/A

Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Maratac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O:
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by
job no.
date 5/31/2024

revisions:

L	2/5/2025	ASI 6.1
I	01/03/2025	ASI 6 old
2	5/31/2024	IFC 3

no. date by

IFC Set 3 of 3
5/31/2024

MECHANICAL SCHEDULES

M0.03

MAKE-UP AIR UNIT

DESIGNATION	NEPTRONIC MODEL NUMBER	MAXIMUM AIRFLOW (CFM)	SERVICE / LOCATION	STATIC PRESSURE (IN. WG)	ELECTRICAL			OPERATING WEIGHT (LBS)	OVERALL DIMENSIONS (LxWxH) (INCHES)	COLLAR SIZE (INCHES)	NOTES
					VOLTAGE / PHASE	POWER RATING (kW)	AMP RATING				
MUA-A	CMU-12-I-160-A	750	UNITS A	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-B	CMU-12-I-160-A	750	UNITS B	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-C	CMU-12-I-160-A	750	UNITS C	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-D	CMU-12-I-160-A	750	UNITS D	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-E	CMU-12-I-160-A	750	UNITS E	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-F	CMU-12-I-160-A	750	UNITS F	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-G	CMU-12-I-160-A	750	UNITS G	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-H	CMU-12-I-160-A	750	UNITS H	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-I	CMU-12-I-160-A	750	UNITS I	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-J	CMU-12-I-160-A	750	UNITS J	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-K	CMU-12-I-160-A	750	UNITS K	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-L	CMU-12-I-160-A	750	UNITS L	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-M	CMU-12-I-160-A	750	UNITS M	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-N	CMU-12-I-160-A	750	UNITS N	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-O	CMU-12-I-160-A	750	UNITS O	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-P	CMU-06-I-015-A	150	UNITS P	0.05	208/3	1.5	3.125	50	23 x 13.3 x 7.6	6Ø	
MUA-Q	CMU-06-I-015-A	150	UNITS Q	0.05	208/3	1.5	3.125	50	23 x 13.3 x 7.6	6Ø	

NOTES:
1. UNIT TO NORMALLY OPERATE AT 200 CFM. INTERLOCK WITH RANGE HOOD AND INCREASE TO 750 CFM WHEN RANGE HOOD TURNED ON.

PUMPS

DESIGNATION	LOCATION/ SERVICE	GRUNDFOS MODEL NUMBER	TYPE	GPM	HEAD (FT H2O)	MINIMUM EFFICIENCY (PERCENT)	CASING PRESSURE (PSIG)	RPM	MOTOR			EMERG. POWER (Y/N)	VAR. SPEED (Y/N)	OPER. WEIGHT (LBS)	NOTES
									BRAKE HP	NON-OVERLOADING HP	VOLTAGE/ PHASE				
PCHWP-A-B-1	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	1750	9.85	10	480/3	N	Y	307	1
PCHWP-A-B-2	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	1750	9.85	10	480/3	N	Y	307	1
PHWP-A-B-1	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	73	175	1750	6.54	5	480/3	N	Y	307	1
PHWP-A-B-2	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	73	175	1750	6.54	5	480/3	N	Y	307	1
SCHWP-A-B-1	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	73	175	1750	6.54	5	480/3	N	Y	307	
SCHWP-A-B-2	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	73	175	1750	6.54	5	480/3	N	Y	307	
SHWP-A-B-1	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	75	175	1750	13.99	5	480/3	N	Y	351	
SHWP-A-B-2	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	75	175	1750	13.99	5	480/3	N	Y	351	
BP-A-B-1	BOILER 1	TPE3 - 50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-A-B-2	BOILER 2	TPE3 - 50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-A-B-3	BOILER 3	TPE3 - 50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
PCHWP-B-P1-1	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	1750	9.85	10	480/3	N	Y	307	1
PCHWP-B-P1-2	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	3450	9.85	10	480/3	N	Y	307	1
PHWP-B-P1-1	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	74	175	1750	6.54	5	480/3	N	Y	307	1
PHWP-B-P1-2	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	74	175	1750	6.54	5	480/3	N	Y	307	1
SCHWP-B-P1-1	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	74	175	1750	6.54	5	480/3	N	Y	665	
SCHWP-B-P1-2	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	74	175	1750	6.54	5	480/3	N	Y	665	
SHWP-B-P1-1	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	1750	18.47	5	480/3	N	Y	489	
SHWP-B-P1-2	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	1750	18.47	5	480/3	N	Y	489	
BP-B-P1-1	BOILER 1	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-B-P1-2	BOILER 2	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-B-P1-3	BOILER 3	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
SMBP-B-P1-1	SNOWMELT	NOT USED													
SMBP-B-P1-2	SNOWMELT	NOT USED													
SMBP-B-P1-3	SNOWMELT	NOT USED													
PCHWP-C-1-1	PRIMARY CHILLED WATER	NBS-015-095-4P	END SUCTION	130	95	74	175	1750	6.54	7	480/3	N	Y	322	1
PCHWP-C-1-2	PRIMARY CHILLED WATER	NBS-015-095-4P	END SUCTION	130	95	74	175	1750	6.54	7	480/3	N	Y	322	1
PHWP-C-1-1	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	120	85	74	175	3450	8.82	5	480/3	N	Y	322	1
PHWP-C-1-2	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	120	85	74	175	3450	8.82	5	480/3	N	Y	322	1
SCHWP-C-1-1	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	120	75	74	175	3450	8.82	5	480/3	N	Y	322	
SCHWP-C-1-2	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	120	75	74	175	3450	8.82	5	480/3	N	Y	322	
SHWP-C-1-1	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	3450	8.82	5	480/3	N	Y	322	
SHWP-C-1-2	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	3450	8.82	5	480/3	N	Y	322	
BP-C-1-1	BOILER 1	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-C-1-2	BOILER 2	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-C-1-3	BOILER 3	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	

GENERAL NOTES:
A. SITE ELEVATION: 7,000 FT

NOTES:
1. SYSTEM DESIGNED WITH 40% PROPYLENE GLYCOL.

HOT WATER BOILER

DESIGNATION	LOCATION	SERVICE	MANUF. MODEL NUMBER	TYPE	FUEL	INPUT (MBH)	OUTPUT (MBH)	GPM	EWT (°F)	LWT (°F)	PRESS DROP (FT H2O)	PRESS RATING (PSIG)	FLUE SIZE (INCHES)	ELECTRICAL			EMERGENCY POWER (Y/N)	NOTES
														FLA	MCA	VOLTAGE/ PHASE		
B-A-B-1	TOWER-A LEVEL B	TOWER-A HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-A-B-2	TOWER-A LEVEL B	TOWER-A HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-A-B-3	TOWER-A LEVEL B	TOWER-A HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	1
B-B-P1-1	TOWER-B LEVEL P1	TOWER-B HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-B-P1-2	TOWER-B LEVEL P1	TOWER-B HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-B-P1-3	TOWER-B LEVEL P1	TOWER-B HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	1
B-B-P1-4	TOWER-B LEVEL P1	SNOWMELT	NOT USED															
B-B-P1-5	TOWER-B LEVEL P1	SNOWMELT	NOT USED															
B-B-P1-6	TOWER-B LEVEL P1	SNOWMELT	NOT USED															
B-B-P1-7	TOWER-B LEVEL P1	SNOWMELT	NOT USED															
B-B-P1-8	TOWER-B LEVEL P1	SNOWMELT	NOT USED															
B-B-P1-9	TOWER-B LEVEL P1	SNOWMELT	NOT USED															
B-C-1-1	TOWER-C LEVEL 1	TOWER-C HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-C-1-2	TOWER-C LEVEL 1	TOWER-C HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-C-1-3	TOWER-C LEVEL 1	TOWER-C HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	1

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.

NOTES:
1. REDUNDANT UNIT.

FANS

DESIGNATION	LOCATION/ SERVICE	COOK MODEL NUMBER	TYPE	CFM	STATIC PRESSURE (IN. WG.)	RPM	BHP	MOTOR		EMERG. POWER (Y/N)	VAR. SPEED (Y/N)	OPERATING WEIGHT (LBS)	SOUND DATA (dBA)									NOTES
								HP	VOLTAGE/ PHASE				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	TOTAL	
GEF-A-P2-1	TOWER-A P2 / GARAGE EX	EWD 30EW620D11	WALL PROP	2600	1.00	1140	1.3	1 1/2	460/3	Y	Y	175	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GEF-A-P2-2	TOWER-A P2 / GARAGE EX	EWD 30EW620D11	WALL PROP	2600	1.00	1140	1.3	1 1/2	460/3	Y	Y	175	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GEF-A-P2-3	TOWER-A P2 / GARAGE EX	EWD 30EW620D11	WALL PROP	2600	1.00	1140	1.3	1 1/2	460/3	Y	Y	175	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GTF-A-P2-01	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-02	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-03	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-04	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-05	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-06	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4, 7
GTF-A-P2-07	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 35JM	INLINE TRANSFER	2310	0.30	1770	0.4	1	460/3	Y	Y	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4, 7
GTF-A-P2-08	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 35JM	INLINE TRANSFER	2310	0.30	1770	0.4	1	460/3	Y	Y	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4, 7
GTF-A-P2-09	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-10	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-11	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-12	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-13	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P2-01	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 40FM	INLINE TRANSFER	2965	0.30	1770	0.5	1	460/3	Y	Y	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P2-02	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 40FM	INLINE TRANSFER	2965	0.30	1770	0.5	1	460/3	Y	Y	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P2-03	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P2-04	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P2-05	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GEF-B-P1-1	TOWER-B P2 / GARAGE EX	QMX 270QMX	MIXED FLOW	15000	1.00	1122	4.1	5	460/3	Y	Y	800	83	87	90	88	84	81	76	67	90	2
GEF-B-P1-2	TOWER-B P1 / GARAGE EX	EWD 36EW620D11	WALL PROP	2815	1.00	1140	1.5	3	460/3	Y	Y	200	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GEF-B-P1-3	TOWER-B P1 / GARAGE EX	EWD 36EW620D11	WALL PROP	2815	1.00	1140	1.5	3	460/3	Y	Y	200	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GEF-B-P1-4	TOWER-B P1 / GARAGE EX	EWD 36EW620D11	WALL PROP	2815	1.00	1140	1.5	3	460/3	Y	Y	200	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GEF-B-P1-5	TOWER-B P1 / GARAGE EX	EWD 36EW620D11	WALL PROP	2815	1.00	1140	1.5	3	460/3	Y	Y	200	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GTF-B-P1-01	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-02	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-03	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-04	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 35JM	INLINE TRANSFER	2310	0.30	1770	0.4	1	460/3	Y	Y	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-05	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 35JM	INLINE TRANSFER	2310	0.30	1770	0.4	1	460/3	Y	Y	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-06	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-07	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-08	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GEF-C-P1-1	TOWER-C P1 / GARAGE EX	SQNB 245SQN-B	INLINE	5000	1.00	902	1.6	2	460/3	N	Y	275	77	80	86	76	74	73	67	59	81	2
EF-A-B-1	TOWER-A B / ELEC A018	80SQN-B	INLINE	475	0.33	1563	0.094	1/6	277/1	N	N	80	84	80	72	69	66	64	58	50	73	
EF-A-B-2	TOWER-A B / ELEVATOR CONTROL ROOM A015	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-A-B-3	TOWER-A B / ELEVATOR CONTROL ROOM A022	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-A-P2-1	TOWER-A P2 / TOWER-A GENERAL EX	180SQN-B	INLINE	3600	1.00	1725	1.0	1 1/2	460/3	N	Y	250	88	89	88	86	86	83	77	70	90	
EF-A-P2-2	TOWER-A P2 / TELECOM ROOM	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-A-P2-3	TOWER-A P2 / TRASH ROOM	100SQN-B	INLINE	550	0.50	1725	0.1	1/6	208/1	N	N	50	80	74	65	62	60	59	51	42	66	
EF-A-1-1	TOWER-A LEVEL 1 / HOOD EXHAUST	120SQN-B	INLINE	1050	0.50	1444	0.21	1/4	277/1	N	N	100	69	70	71	66	60	58	54	48	68	
EF-B-B-1	TOWER-B STORAGE ELEC PANEL RM B006	80SQN-B	INLINE	475	0.33	1563	0.094	1/6	277/1	N	N	80	84	80	72	69	66	64	58	50	73	
EF-B-B-2	TOWER-B / ELEVATOR CONTROL ROOM B007	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-B-B-3	TOWER-B / ELEVATOR CONTROL ROOM B008	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-B-P2-1	TOWER-B P2 / TOWER-B POOL MECH P260	120SQN-B	INLINE	300	0.50	1725	0.1	1/6	208/1	N	N	50	89	87	80	82	80	80	80	70	87	
EF-B-P2-2	TOWER-B P2 / TOWER-B POOL MECH P267	100SQN-B	INLINE	600	0.50	1725	0.1	1/6	208/1	N	N	50	80	74	65	62	60	59	51	42	66	
EF-B-P2-3	TOWER-B P2 / GENERATOR ROOM	120SQN17D	INLINE	1000	0.50	1725	0.3	1/3	208/1	N	Y	59	70	77	78	75	67	62	60	53	75	
EF-B-P2-4	TOWER-B P2 / FUEL STORAGE	120SQNB	INLINE	150	1.00	1795	0.168	0.25	277/1	N	N	50	82	81	73	73	72	71	68	61	78	8
EF-B-P1-1	TOWER-B P1 / RESI KITCHEN HOOD	150SQN-B	INLINE	1200	1.50	1725	0.6	3/4	460/3	N	Y	100	84	81	78	76	76	74	71	64	81	
EF-B-P1-2	TOWER-B P1 / TOWER-A GENERAL EX	180SQN-B	INLINE	1600	1.00	1725	1.0	1 1/2	460/3	N	Y	150	87	89	86	83	83	81	75	68	88	
EF-B-P1-3	TOWER-A P2 / TELECOM ROOM	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-B-P1-4	TOWER-B B / TOWER-B TRASH P258	120SQN-B	INLINE	650	1.00	1725	0.2	1/4	208/1	N	N	75	82	81	73	73	72	71	68	61	78	
EF-C-P1-1	TOWER-C P1 / TOWER-C AMENITY EX	100SQN-B	INLINE	880	1.00	2455	0.419	0.75	277/1	N	Y	50	92	85	79	76	73	72	69	61	80	
EF-C-P1-2	TOWER-C P1 / TRASH RM	120SQNB	INLINE	150	1.00	1795	0.168	0.25	277/1	N	N	50	82	81	73	73	72	71	68	61	78	
EF-C-P1-3	TOWER-C P1 / GARAGE EX	150SQNB	INLINE	2900	0.30	1725	0.602	0.75	2777/1	N	Y	175	74	72	82	75	69	68	66	60	78	
EF-C-P1-4	TOWER-C P1 / GARAGE EX	150SQNB	INLINE	2200	0.30	1725	0.602	0.75	2777/1	N	Y	175	76	74	80	74	70	68	65	59	65	
EF-C-1-1	TOWER-A 1 / TELECOM ROOM	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-C-8-1	TOWER-C ELEC RM	80SQN-B	INLINE	475	0.33	1563	0.094	1/6	277/1	N	N	80	84	80	72	69	66	64	58	50	73	
GTF-C-P1-01	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-C-P1-02	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-C-P1-03	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-C-P1-04	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
EF-C-O-2	TOWER-C UNIT O / KITCHEN EXHAUST	100SQN-B	INLINE	600	0.33	1524	0.104	1/6	208/1	N	N	80	80	74	65	62	60	59	51	42	66	

FAN COIL (COOLING + HYDRONIC HEATING)

DESIGNATION	LOCATION / SERVICE	MANUF. MODEL NUMBER	CONFIGURATION	UNIT SIZE	CFM	ESP (IN. WG.)	COOLING										HEATING										FAN MOTOR		ELECTRICAL			EMERG. POWER (Y/N)	RAC NC	DIS NC	RAD SWLS AT OCTAVE BAND CENTER FREQUENCY HZ						DIS SWLS AT OCTAVE BAND CENTER FREQUENCY HZ						OPER. WEIGHT (LBS)	NOTES
							CAPACITY		EAT		LAT																																					
							TOTAL (MBH)	SENSIBLE (MBH)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	CHW ROWS	GPM	EWT (°F)	LWT (°F)	PD (FT H20)	CAPACITY (MBH)	EAT (°F)	LAT (°F)	HW ROWS	GPM	EWT (°F)	LWT (°F)	PD (FT H20)	HP	FLA	MOP	MCA	VOLTAGE/ PHASE						125	250	500	1000	2000	4000	125	250	500	1000	2000	4000		
FCU-A-P2-2	RESTAURANT ELEC P264	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	11.8	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.7	74.0	94.2	2	1.5	120.0	103.1	0.7	1/4	2.6	15.0	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-A-1-2	VESTIBULE A112	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	300	0.5	6.9	6.0	76.0	60.7	52.0	51.2	3	1.0	42.0	56.2	0.2	9.0	74.0	100.2	2	1.2	120.0	105.6	0.4	1/15	2.6	15.0	3.2	208/1	N	28	16	60	54	53	48	38	25	63	59	57	55	51	45	122	
FCU-B-1-1	VESTIBULE B120	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	400	0.5	8.0	7.4	76.0	60.7	53.7	52.9	3	1.0	42.0	57.9	0.2	10.6	74.0	104.6	2	2.6	120.0	112.1	2.0	1/15	2.6	15.0	3.2	208/1	N	28	16	61	54	53	48	38	25	63	59	57	55	52	46	122	
FCU-B-P2-2	POOL MECH P267	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	11.8	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.7	74.0	94.2	2	1.5	120.0	103.1	0.7	1/4	2.6	15.0	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-B-P2-3	WATER ENTRY P257	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	460	0.5	6.6	6.3	76.0	60.7	59.4	55.3	3	0.6	42.0	64.6	0.1	8.3	74.0	94.7	1	2.0	120.0	112.0	4.4	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	65	61	59	57	54	48	117	
FCU-B-P2-4	POOL MECH P260	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	460	0.5	6.6	6.3	76.0	60.7	59.4	55.3	3	0.6	42.0	64.6	0.1	8.3	74.0	94.7	1	2.0	120.0	112.0	4.4	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	65	61	59	57	54	48	117	
FCU-B-P1-2	ELEV B-P3 CONTROL	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1300	0.6	22.5	21.6	76.0	60.7	55.9	54.1	3	3.0	42.0	56.7	1.1	21.7	74.0	94.2	2	2.5	120.0	102.4	2.1	1/3	4.1	15	5.1	208/1	N	39	31	73	63	62	53	45	75	72	68	68	65	63	179	
FCU-B-P1-3	MECH P105	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	11.8	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.7	74.0	94.2	2	1.5	120.0	103.1	0.7	1/4	2.6	15.0	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-C-1-1	MEP C109	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1300	0.6	22.5	21.6	76.0	60.7	55.9	54.1	3	3.0	42.0	56.7	1.1	21.7	74.0	94.2	2	2.5	120.0	102.4	2.1	1/3	4.1	15	5.1	208/1	N	39	31	73	63	62	53	45	75	72	68	68	65	63	179	
FCU-C-P1-2	VESTIBULE C002	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	425	0.5	5.0	5.4	76.0	60.7	60.7	60.7	3	0.4	42.0	66.6	0.1	9.8	74.0	100.9	2	1.5	120.0	107.3	0.7	1/15	2.6	15.0	3.2	208/1	N	29	18	61	55	54	48	38	26	64	60	58	56	52	47	122	
FCU-C-P1-3	SWITCHGEAR C010	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	11.8	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.7	74.0	94.2	2	1.5	120.0	103.1	0.7	1/4	2.6	15.0	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-A-1	UNIT A BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	400	0.6	4.8	4.8	76.0	60.7	61.6	61.6	3	0.4	42.0	63.7	0.1	4.5	74.0	86.7	1	0.5	120.0	103.0	0.2	1/10	1.3	15	1.6	208/1	N	29	23	65	57	53	50	40	30	69	63	61	59	56	51	89	
FCU-A-2	UNIT A BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	450	0.5	6.5	6.1	76.0	60.7	59.6	55.3	3	0.5	42.0	65.0	0.1	8.1	74.0	94.6	1	1.8	120.0	111.4	3.6	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	64	61	58	56	53	48	117	
FCU-A-3	UNIT A BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	9.0	8.7	76.0	60.7	55.0	53.9	3	1.0	42.0	59.3	0.2	7.8	74.0	92.1	1	1.2	120.0	107.4	1.6	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-A-4	UNIT A LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	900	0.6	18.8	16.4	76.0	60.7	53.9	52.6	3	2.8	42.0	55.4	0.9	16.6	74.0	95.8	2	1.7	120.0	100.7	1.0	1/5	4.1	15	5.1	208/1	N	33	21	66	58	58	56	47	38	68	64	63	61	58	54	179	
FCU-B-1	UNIT B BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	7.2	6.4	76.0	60.7	53.9	52.5	3	1.3	42.0	53.5	0.7	4.8	74.0	89.4	1	0.7	120.0	107.1	0.4	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-B-2	UNIT B BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	6.1	6.4	76.0	60.7	60.4	60.4	3	0.6	42.0	65.4	0.1	8.4	74.0	93.1	1	1.6	120.0	110.0	2.9	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-B-3	UNIT B BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	8.9	8.7	76.0	60.7	55.0	53.9	3	1.0	42.0	59.3	0.2	8.4	74.0	93.1	1	1.6	120.0	110.0	2.9	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-B-4	UNIT B LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1100	0.6	22.3	19.7	76.0	60.7	54.4	52.8	3	3.6	42.0	54.5	1.5	18.6	74.0	94.2	2	1.9	120.0	100.4	1.2	1/4	4.1	15	5.1	208/1	N	36	26	70	61	61	59	50	42	72	68	66	65	61	58	179	
FCU-C-1	UNIT C BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	800	0.6	8.4	8.8	76.0	60.7	62.7	62.7	3	0.7	42.0	68.5	0.1	13.3	74.0	93.4	1	2.7	120.0	110.4	10.9	1/6	4.1	15	5.1	208/1	N	32	19	65	57	57	54	45	36	67	62	61	60	56	51	172	
FCU-C-2	UNIT C BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	4.3	3.9	76.0	60.7	62.7	62.7	3	0.3	42.0	65.7	0.1	4.4	74.0	87.8	1	0.5	120.0	103.8	0.2	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-C-3	UNIT C BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	900	0.6	8.8	9.0	76.0	60.7	63.9	63.9	3	0.7	42.0	69.1	0.1	14.1	74.0	92.4	1	2.8	120.0	110.1	11.7	1/5	4.1	15	5.1	208/1	N	33	21	66	58	58	56	47	38	68	64	63	61	58	54	172	
FCU-C-4	UNIT C DEN	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	300	0.6	4.7	4.8	76.0	60.7	56.6	54.5	3	0.6	42.0	59.3	0.1	4.5	74.0	90.8	1	0.7	120.0	107.9	0.4	1/15	1.3	15	1.6	208/1	N	24	18	59	54	50	45	35	24	65	59	58	55	52	45	89	
FCU-C-5	UNIT C LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1300	0.6	22.5	21.6	76.0	60.7	55.9	54.1	3	3.0	42.0	56.7	1.1	21.7	74.0	94.2	2	2.5	120.0	102.4	2.1	1/3	4.1	15	5.1	208/1	N	39	31	73	63	63	62	53	45	75	72	68	68	65	63	179	
FCU-D-1	UNIT D BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	7.2	7.1	76.0	60.7	64.6	64.6	3	0.6	42.0	67.8	0.1	11.8	74.0	92.6	2	1.2	120.0	100.5	0.4	1/4	2.6	15	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-D-2	UNIT D BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	220	0.5	4.0	4.0	76.0	60.7	53.9	53.0	3	0.6	42.0	57.6	0.1	3.0	74.0	89.4	1	0.3	120.0	101.0	0.1	1/20	1.3	15	1.6	208/1	N	22	16	58	52	48	43	33	20	61	54	53	49	45	36	89	
FCU-D-3	UNIT D BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	8.8	8.8	76.0	60.7	61.9	61.9	3	0.8	42.0	64.6	0.1	11.8	74.0	92.6	2	1.2	120.0	100.5	0.4	1/4	2.6	15	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-D-4	UNIT D LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1000	0.6	20.8	18.2	76.0	60.7	54.0	52.6	3	3.3	42.0	54.6	1.3	18.4	74.0	95.7	2	2.0	120.0	101.8	1.3	1/4	4.1	15	5.1	208/1	N	35	24	68	60	60	58	48	40	70	66	64	63	60	56	179	
FCU-E-1	UNIT E BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	11.8	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.7	74.0	94.2	2	1.5	120.0	103.1	0.7	1/4	2.6	15	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-E-2	UNIT E BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	450	0.5	5.9	6.1	76.0	60.7	59.6	55.3	3	0.5	42.0	65.0	0.1	6.0	74.0	89.7	1	0.6	120.0	100.3	0.4	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	64	61	58	56	53	48	117	
FCU-E-3	UNIT E BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	650	0.6	7.1	6.9	76.0	60.7	63.2	63.2	3	0.6	42.0	67.0	0.1	9.1	74.0	90.2	1	1.4	120.0	107.4	2.2	1/5	2.6	15	3.2	208/1	N	33	26	67	60	58	56	45	35	71	67	64	63	60	57	117	
FCU-E-4	UNIT E BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	380	0.6	4.5	4.7	76.0	60.7	61.1	61.1	3	0.4	42.0	63.4	0.1	4.8	74.0	89.4	1	0.7	120.0	107.1	0.4	1/10	1.3	15	1.6	208/1	N	28	21	64	56	52	49	39	29	68	62	61	58	55	50	89	
FCU-E-5	UNIT E LIVING ROOM	NAILOR D39VHZW	DUCTED/CEILING CONCEALED	15	1130	0.6	18.0	18.2	76.0	60.7	56.5	54.5	3	2.0	42.0	59.9	0.9	19.0	74.0	93.9	1	3.9	120.0	110.4	4.8	1/5	5.8	15	7.3	208/1	N	35	49	62	56	51	44	39	10	71	66	59	55	50	46	122	
FCU-F-1	UNIT F BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	10.0	9.0	76.0	60.7	54.3	53.2	3	1.3	42.0	57.3	0.3	9.2	74.0	95.1	1	3.2	120.0	114.5	10.9	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-F-2	UNIT F BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	300	0.6	4.8	4.8	76.0	60.7	56.6	54.5	3	0.6	42.0	59.3	0.1	5.9	74.0	96.6	2	0.7	120.0	103.8	0.1	1/15	1.3	15	1.6	208/1	N	24	18	59	54	50	45	35	24	65	59	58	55	52	45	92	
FCU-F-3	UNIT F BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	7.1	7.0	76.0	60.7	59.1	55.2	3	0.6	42.0	63.8	0.1	8.9	74.0	94.4	1	2.4	120.0	112.9	6.2	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-F-4	UNIT F BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	386	0.6	5.9	6.1	76.0	60.7	56.7	54.5	3	0.8	42.0	57.6	0.3	6.2	74.0	92.0	1	2.1	120.0	114.4	3.3	1/10	1.3	15	1.6	208/1	N	28	21	64	57	53	49	39	29	68	62	61	59	55	50	89	
FCU-F-5	UNIT F LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1200	0.6	20.0	19.9	76.0	60.7	55.9	54.3	3	2.5	42.0	57.9	0.8	20.0	74.0	93.6	2	2	120.0	100.3	0.2	1/3	4.1	15	5.1	208/1	N	39	29	72	62	62	60	52	44	74	70	67	66	63	60	179	
FCU-G-1	UNIT G BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	650	0.6	13.7	11.8	76.0	60.7	54.0	52.5	3	2.3	42.0	53.9	1.0	11.7	74.0	94.9	2	1.3	120.0	102.5	0.5	1/5	2.6	15	3.2	208/1	N	33	26	67	60	58	56	45	35	71	67	64	63	60	57	122	
FCU-G-2	UNIT G BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	5.6	5.9	76.0	60.7	55.7	54.1	3	0.8	42.0	56.9	0.3	5.8	74.0	92.4	1	1.7	120.0	113.6	2.2	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-G-3	UNIT G BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	460	0.5	6.6	6.3	76.0	60.7	59.4	55.3	3	0.6	42.0	64.6	0.1	8.3	74.0	94.7	1	2.0	120.0	112.0	4.4	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	65	61	59	57	54	48	117	
FCU-G-4	UNIT G BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	300	0.6	4.4	4.8	76.0	60.7	56.6	54.5	3	0.6	42.0	59.3	0.1	4.2	74.0	89.3	1	0.5	120.0	104.7	0.2	1/15	1.3	15	1.6	208/1	N	24	18	59	54	50	45	35	24	65	59	58	55	52	45	89	
FCU-G-5	UNIT G LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	900	0.6	17.6	15.9	76.0	60.7	54.6	53.3	3	2.3	42.0	57.1	0.6	17.3	74.0	96.6	2	1.9	120.0	102.1	1.2	1/5	4.1	15	5.1	208/1	N	33	21	66	58	58	56	47	38	68	64	63	61	58	54	179	
FCU-H-1	UNIT H BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1000	0.6	11.9	12.0	76.0	60.7	61.5	61.5	3	1.0	42.0	65.9	0.2	15.6	74.0	92.2	1	3.9	120.0	112.2	22.2	1/4	4.1	15	5.1	208/1	N	35	24	68	60	60	58	48	40	70	66	64	63	60	56	172	
FCU-H-2	UNIT H BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	325	0.6	6.4	5.9	76.0	60.7	54.2	52.9	3	1.0	42.0	54.9	0.5	4.9	74.0	90.6	1	0.8	120.0	108.7	0.5	1/15	1.3	15	1.6	208/1	N	25	19	60	55	51	46	36	26	66	60	59	56	53	47	89	
FCU-H-3	UNIT H BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	325	0.6	3.7	3.8	76.0	60.7	61.9	61.9	3	0.3	42.0	65.3	0.1	4.7	74.0	90.1	1	0.7	120.0	107.5	0.4	1/15	1.3	15	1.6	208/1	N	25	19	60	55	51	46	36	26	66	60	59	56	53	47	89	
FCU-H-4	UNIT H BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	250	0.5	3.2	3.4	76.0	60.7	59.4	55.3	3	0.3	42.0	63.9	0.1	2.9	74.0	88.2	1	0.3	120.0	100.2	0.1	1/20	1.3	15	1.6	208/1	N	23	18	58	53	49	44	34	22	62	56	55	51	47	40	89	
FCU-H-5	UNIT H LIVING ROOM	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	20	1500	0.5	16.8	16.7	76.0	60.7	62.5	62.5	3	1.3	42.0	68.7	0.1	20.5	74.0	90.2	1	2.9	120.0	106.0	2.6	1/5	6.3	15	7.9	208/1	N	40	29	70	59	56	51	44	40	64	62	62	60	57	54	215	
FCU-H-6	UNIT H DEN	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	6.1	6.4	76.0	60.7	60.4	60.4	3	0.6	42.0	65.4	0.1	8.9	74.0	94.4	1	2.4	120.0	112.9	6.2	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-I-1	UNIT I BEDROOM 1	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	30	2500	0.6	23.3	23.5	76.0	60.7	64.7	64.7	3	1.7	42.0	69.8	0.1	34.0	74.0	90.2	1	6.8	120.0	110.0	3.6	3/4	8.7	15	10.9	208/1	N	36	26	71	64	58	52	49	46	72	68	67	66	63	61	296	1
FCU-I-2	UNIT I BEDROOM 2	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	20	1900	0.6	15.7	15.5	76.0	60.7	66.1	66.1	3	1.1	42.0	71.2	0.1	25.1	74.0	89.6	1	4.5	120.0	108.9	6.3	3/4	6.3	15	7.9	208/1	N	48	34	80	73	71	73	68	58	72	74	73	74	71	70	250	2
FCU-I-3	UNIT I BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	5.0	5.2	76.0	60.7	59.8	55.4	3	0.5	42.0	61.6	0.1	6.7	74.0	93.3	1	4.6	120.0	117.3	14.9	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	89	
FCU-I-4	UNIT I BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	6.0	6.4	76.0	60.7	60.4	60.4	3	0.6	42.0	65.4	0.1	8.5	74.0	93.5	1	1.8	120.0	110.9	3.6	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-I-5	UNIT I BEDROOM 5	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	6.5	6.2	76.0	60.7	54.6	53.3	3	1.0	42.0	55.2	0.5	6.2	74.0	93.8	1	3.3	120.0	116.5	7.8	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-I-6	UNIT I LIVING ROOM	NAILOR D39VHZW	DUCTED/CEILING CONCEALED	19	1900	0.6	36.0	33.8	76.0	60.7	54.5	53.5	3	4.6	42.0	57.6	0.3	22.7	74.0	99.8	2	5.4	120.0	104.8	21.4	1/4	8.5	15	10.6	208/1	N	40	61	60	56	52	46	42	36	79	75	69	67	64	62	179	
FCU-I-7	UNIT I DEN	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	100	0.5	2.8	2.3	76.0	60.7	48.6	47.9	3	0.6	42.0	53.2	0.1	1.3	74.0	89.7	1	0.1	120.0	93.7	0.0	1/20	1.3	15	1.6	208/1	N	15	15	20	45	40	30	20	20	56	43	27	23	17	17	89	
FCU-J-1	UNIT J BEDROOM 1	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	12	1380	0.6	15.9	15.7	76.0	60.7	62.3	62.3	3	1.4	42.0	64.8	0.3	23.0	74.0	93.8	2	2.6	120.0

AIR SEPARATOR SCHEDULE

DESIGNATION	SERVICE	MANUF. MODEL NUMBER	TYPE	FLOW RATE	PRESS RATING	PRESS DROP	OPER. WEIGHT	REMARKS
				GPM	PSIG	FT H2O	LBS	
AS-A-B-1	BOILER RM A012 / BUILDING A CHILLED WATER	B&G R-6F	CENTRIFUGAL	245	125	2.5	579	1,2,3
AS-A-B-2	BOILER RM A012 / BUILDING A CHILLED WATER	B&G R-4F	CENTRIFUGAL	223	125	2.5	278	1,2
AS-A-B-3	BOILER RM A012 / BUILDING A HOT WATER	B&G R-6F	CENTRIFUGAL	224	125	2.5	579	1,2,3
AS-A-B-4	BOILER RM A012 / BUILDING A HOT WATER	B&G R-4F	CENTRIFUGAL	205	125	2.5	278	1,2
AS-B-P1-1	MECH P105 / BUILDING B CHILLED WATER	B&G R-6F	CENTRIFUGAL	245	125	2.5	579	1,2,3
AS-B-P1-2	MECH P105 / BUILDING B CHILLED WATER	B&G R-4F	CENTRIFUGAL	223	125	2.5	278	1,2
AS-B-P1-3	MECH P105 / BUILDING B HOT WATER	B&G R-6F	CENTRIFUGAL	224	125	2.5	579	1,2,3
AS-B-P1-4	MECH P105 / BUILDING B HOT WATER	B&G R-4F	CENTRIFUGAL	205	125	2.5	278	1,2
AS-B-P1-5	MECH P105 / SNOWMELT SYSTEM	NOT USED						
AS-C-1-1	MEP C106 / BUILDING C CHILLED WATER	B&G R-6F	CENTRIFUGAL	189	125	2.5	579	1,2,3
AS-C-1-2	MEP C106 / BUILDING C CHILLED WATER	B&G R-4F	CENTRIFUGAL	172	125	2.5	278	1,2
AS-C-1-3	MEP C106 / BUILDING C HOT WATER	B&G R-6F	CENTRIFUGAL	174	125	2.5	579	1,2,3
AS-C-1-4	MEP C106 / BUILDING C HOT WATER	B&G R-4F	CENTRIFUGAL	158	125	2.5	278	1,2

NOTES:
1. A BLOWDOWN CONNECTION FOR ROUTINE CLEANING OF THE UNIT.
2. INTEGRAL AIR VENT AT TOP OF UNIT.
3. SYSTEM DESIGNED WITH 40% PROPYLENE GLYCOL.

EXPANSION TANK

DESIGNATION	LOCATION/ SERVICE	B&G MODEL NUMBER	TYPE	SYSTEM VOLUME (GALLONS)	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	PRESS. RATING (PSIG)	OPERATING WEIGHT (LBS)	NOTES
ET-A-B-1	BOILER RM A012 / BUILDING A CHILLED WATER	B165	BLADDER	1500	44	44	125	517	1
ET-A-B-2	BOILER RM A012 / BUILDING A CHILLED WATER	B50	BLADDER	750	13	13	125	157	
ET-A-B-3	BOILER RM A012 / BUILDING A HOT WATER	B800	BLADDER	1450	132	132	125	2233	1
ET-A-B-4	BOILER RM A012 / BUILDING A HOT WATER	B200	BLADDER	800	53	53	125	651	
ET-B-P1-1	MECH P105 / BUILDING B CHILLED WATER	B130	BLADDER	1200	34	34	125	408	1
ET-B-P1-2	MECH P105 / BUILDING B CHILLED WATER	B50	BLADDER	700	13	13	125	157	
ET-B-P1-3	MECH P105 / BUILDING B HOT WATER	B500	BLADDER	1150	132	132	125	1450	1
ET-B-P1-4	MECH P105 / BUILDING B HOT WATER	B200	BLADDER	1000	53	53	125	651	
ET-B-P1-5	MECH P105 / SNOWMELT SYSTEM	NOT USED							
ET-C-1-1	MEP Q106 / BUILDING C CHILLED WATER	B130	BLADDER	1250	34	34	125	408	1
ET-C-1-2	MEP C106 / BUILDING C CHILLED WATER	B50	BLADDER	800	13	13	125	157	
ET-C-1-3	MEP C106 / BUILDING C HOT WATER	B500	BLADDER	1250	132	132	125	1450	1
ET-C-1-4	MEP C106 / BUILDING C HOT WATER	B200	BLADDER	800	53	53	125	651	

NOTES:
1. SYSTEM DESIGNED WITH 40% PROPYLENE GLYCOL.

FAN POWERED TERMINAL WITH HOT WATER COIL

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	UNIT SIZE	OUTLET DUCT SIZE (INCHES)	FAN			PRIMARY CFM		HEATING CFM	HEATING COIL						ELECTRICAL			RAC NC	DIS NC	RAD SWLS AT OCTAVE BAND CENTER FREQUENCY HZ						DIS SWLS AT OCTAVE BAND CENTER FREQUENCY HZ						WEIGHT (LBS)	NOTES
					CFM	ESP (IN. WG.)	FLA	MAX/MIUM	MINIMUM	MAX/MIUM	CAPACITY (MBH)	GPM	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	HW COIL ROWS	MOP	MCA	VOLTAGE/ PHASE			125	250	500	1000	2000	4000	125	250	500	1000	2000	4000		
FPT-A-B1-1	GAME LOUNGE A003	NAILOR D37SWST	410	41 x 9	1665	0.5	5.3	1665	520	1665	24.9	1.8	120	91.5	64	81.1	2	15	6.6	277/1	36	31	71	63	56	52	47	42	76	72	71	71	68	65	175	
FPT-A-B1-2	EMPLOYEE BREAK A008	NAILOR D37SWST	105	14 5/8 x 8 3/4	300	0.5	1.3	300	100	300	7.4	1.0	120	105.8	64	89.6	2	15	1.6	277/1															95	
FPT-A-B1-3	BOWLING LOUNGE A004	NAILOR D37SWST	410	41 x 9	1290	0.5	5.3	1290	910	1290	20.3	1.4	120	90.4	64	82.5	2	15	6.6	277/1	30	25	66	58	52	48	44	40	71	67	66	66	62	58	175	
FPT-A-B1-4	BOWLING LANE A004	NAILOR D37SWST	310	24 x 9	1085	0.5	4.4	1085	330	1085	14.0	1.0	120	92.1	64	79.1	2	15	5.5	277/1	34	34	69	62	56	52	45	39	77	74	69	67	65	62	123	
FPT-A-1-1	SPA LOUNGE A113	NAILOR D37SWST	208	24 x 9	570	0.5	2.2	570	220	570	12.6	1.5	120	103.5	64	89.6	2	15	2.8	277/1	23	19	57	51	49	45	37	32	66	58	57	52	48	42	123	
FPT-A-1-2	TREATMENT SINGLE A104	NAILOR D37SWST	104	14 5/8 x 8 3/4	210	0.5	1.3	210	50	210	3.1	0.5	120	109.2	64	88.4	1	15	1.6	277/1	15	20	32	43	38	32	26	20	64	52	41	31	23	20	93	
FPT-A-1-3	LOCKER ROOM A123 / LOBBY A100	NAILOR D37SWST	310	24 x 9	960	0.5	4.4	960	390	960	14.5	1.3	120	96.0	64	81.3	2	15	5.5	277/1	33	33	68	61	55	51	44	38	77	73	68	67	64	61	123	
FPT-A-1-4	LOCKER ROOM A122	NAILOR D37SWST	208	24 x 9	570	0.5	2.2	570	200	570	12.4	1.7	120	105.7	64	91.6	2	15	2.8	277/1	22	19	57	50	48	45	37	32	66	58	57	51	46	40	123	
FPT-A-1-5	PRIVATE DINING A111	NAILOR D37SWST	310	24 x 9	1000	0.5	4.4	1000	360	1000	18.8	2.9	120	107.2	64	86.9	2	15	5.5	277/1	33	31	68	59	54	50	42	38	77	72	67	66	63	60	123	
FPT-A-1-6	FITNESS A121	NAILOR D37SWST	410	41 x 9	1820	0.5	5.3	1820	660	1820	34.4	5.3	120	107.0	64	87.3	2	15	6.6	277/1	36	31	71	63	56	52	47	43	76	72	71	71	68	65	175	
FPT-A-1-7	STRENGTH TRAINING A120	NAILOR D37SWST	208	24 x 9	795	0.5	2.2	795	300	795	15.0	1.6	120	101.6	64	85.8	2	15	2.8	277/1	26	21	63	56	52	48	42	37	67	64	60	56	53	50	123	
FPT-A-1-8	YOGA A119	NAILOR D37SWST	208	24 x 9	700	0.5	2.2	700	490	700	10.8	4.1	120	114.9	64	81.5	1	15	2.8	277/1	26	20	61	54	52	47	40	36	67	62	59	55	51	47	120	
FPT-A-1-9	TREATMENT DOUBLE A115	NAILOR D37SWST	105	14 5/8 x 8 3/4	275	0.5	1.3	275	110	275	5.2	1.8	120	114.6	64	84.5	1	15	1.6	277/1	19	24	56	51	45	40	34	28	67	58	51	43	37	30	93	
FPT-A-1-10	KITCHEN	NAILOR D37SWST	410	41 x 9	1050	0.5	5.3	1050	320	1050	30.6	3.3	120	101.5	64	98	3	15	6.6	277/1	26	20	63	55	50	45	42	39	67	63	64	62	58	54	180	
FPT-B-1-1	GUEST BUSINESS CENTER B109	NAILOR D37SWST	410	41 x 9	1100	0.5	5.3	1100	320	1100	30.1	2.9	120	99.4	64	96.9	3	15	6.6	277/1	26	20	63	55	50	45	43	39	68	63	64	62	58	54	180	
FPT-B-1-2	MANAGER OFFICE B106	NAILOR D37SWST	410	41 x 9	1080	0.5	5.3	1080	320	1080	30.6	3.3	120	101.5	64	98	3	15	6.6	277/1	26	20	63	55	50	45	42	39	67	63	64	62	58	54	180	
FPT-B-1-3	SKI LOUNGE KITCHEN B105	NAILOR D37SWST	208	24 x 9	630	0.5	2.2	630	190	630	4.4	0.3	120	84.0	64	72.4	1	15	2.8	277/1	24	20	59	53	50	46	39	34	67	60	58	54	49	44	120	
FPT-B-1-4	SKI LOUNGE B108 W	NAILOR D37SWST	410	41 x 9	980	0.5	5.3	980	320	980	30.6	3.3	120	101.5	64	98	3	15	6.6	277/1	26	20	63	55	50	45	42	39	67	63	64	62	58	54	180	
FPT-B-1-5	SKI LOUNGE B108 NW	NAILOR D37SWST	410	41 x 9	1710	0.5	5.3	1710	510	1710	41.0	4.0	120	99.5	64	92.3	3	15	6.6	277/1	36	31	71	62	56	52	47	42	75	72	71	70	68	65	180	
FPT-B-1-6	SKI LOUNGE B106 B107 INTERIOR NORTH	NAILOR D37SWST	410	41 x 9	1290	0.5	5.3	1290	810	1290	19.7	1.5	120	93.1	64	84.6	2	15	6.6	277/1	28	21	64	56	51	46	43	39	69	64	65	63	59	56	175	
FPT-B-1-7	SKI LOUNGE B106 B107 INTERIOR SOUTH	NAILOR D37SWST	208	24 x 9	660	0.5	2.2	660	470	660	9.8	2.1	120	111.0	64	80.6	1	15	2.8	277/1	25	20	60	53	51	47	39	35	67	61	59	54	50	46	120	
FPT-B-1-8	KIDS ROOM B113	NAILOR D37SWST	410	41 x 9	1200	0.5	5.3	1200	360	1200	20.3	1.5	120	92.8	64	84.3	2	15	6.6	277/1	28	23	64	56	51	47	43	39	69	65	65	64	60	56	175	
FPT-B-1-9	SKI VALET BOH B121	NAILOR D37SWST	208	24 x 9	600	0.5	2.2	600	180	600	11.0	0.9	120	96.1	64	85.2	2	15	2.8	277/1	23	19	58	52	49	45	38	33	66	59	57	53	48	43	123	
FPT-B-1-10	SKI VALET B119 AND MISC INT ZONES	NAILOR D37SWST	410	41 x 9	1150	0.5	5.3	1150	420	1150	30.0	4.5	120	106.7	64	89.1	2	15	6.6	277/1	33	26	68	59	53	49	44	40	73	68	68	67	63	60	175	
FPT-B-1-11	SKI LOCKERS B110	NAILOR D37SWST	106	14 5/8 x 8 3/4	420	0.5	1.3	420	130	420	11.8	1.8	120	107.2	64	96.4	3	15	1.6	277/1															97	
FPT-B-1-12	SKI LOUNGE B107 E	NAILOR D37SWST	410	41 x 9	1290	0.5	5.3	1290	390	1290	31.2	2.5	120	94.8	64	92.8	3	15	6.6	277/1	30	24	66	58	52	48	44	40	71	66	66	65	62	58	180	
FPT-B-1-13	BC CONNECTOR	NAILOR D37SWST	410	41 x 9	1200	0.5	5.3	1200	360	1200	38.0	10.3	120	112.6	64	101.8	3	15	6.6	277/1	28	23	64	56	51	47	43	39	69	65	65	64	60	56	180	
FPT-C-1-1A	SKIER LOUNGE C101	NAILOR D37SWST	410	41 x 9	1300	0.5	5.3	1290	390	1290	31.2	2.5	120	94.8	64	92.8	3	15	6.6	277/1	30	24	66	58	52	48	44	40	71	66	66	65	62	58	180	
FPT-C-1-1B	SKIER LOUNGE C101	NAILOR D37SWST	105	14 5/8 x 8 3/4	200	0.5	1.3	210	50	210	3.1	0.5	120	109.2	64	88.4	1	15	1.6	277/1	15	20	32	43	38	32	26	20	64	52	41	31	23	20	93	
FPT-C-1-2	SKIER LOUNGE C101	NAILOR D37SWST	208	24 x 9	800	0.5	2.2	800	240	800	14.3	1.5	120	100.7	64	85.4	2	15	2.8	277/1	26	21	63	56	52	48	42	37	67	64	61	57	53	50	123	
FPT-C-1-3	MEP C109 / LOUNGE C111	NAILOR D37SWST	208	24 x 9	475	0.5	2.2	475	150	475	6.7	0.7	120	101.5	64	80	1	15	2.8	277/1	21	16	56	50	47	44	37	31	64	57	55	50	45	37	120	
FPT-C-1-4	GOLF SIMULATOR C107	NAILOR D37SWST	106	14 5/8 x 8 3/4	420	0.5	1.3	420	190	420	9.3	1.6	120	108.7	64	89.1	2	15	1.6	277/1															95	
FPT-C-1-5	GOLF SIMULATOR C108	NAILOR D37SWST	206	24 x 9	520	0.5	2.2	520	240	520	11.7	1.3	120	102.5	64	89.7	2	15	2.8	277/1	22	19	57	50	48	45	37	32	66	58	57	52	46	40	123	
FPT-C-1-6	STORAGE C110A	NAILOR D37SWST	206	24 x 9	430	0.5	2.2	430	130	430	4.9	0.3	120	90.0	64	76.6	1	15	2.8	277/1	21	18	55	49	47	44	38	32	65	57	55	49	44	35	120	
FPT-C-1-7	CORRIDOR C102	NAILOR D37SWST	206	24 x 9	335	0.5	2.2	335	110	335	4.9	0.3	120	90.0	64	76.6	1	15	2.8	277/1	21	18	55	49	47	44	38	32	65	57	55	49	44	35	120	

SPLIT SYSTEM

FAN COIL (INDOOR UNIT) SCHEDULE

DESIGNATION	LG MODEL NUMBER	TYPE	ROOM SERVICED	FAN CFM	ESP (IN. WG)	REFRIGERANT	COOLING					FAN MOTOR			WEIGHT (LBS)	SOUND DATA				NOTES
							TOTAL MBH	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	FLA	MCA	VOLTAGE/ PHASE		HIGH (dBA)	MEDIUM (dBA)	LOW (dBA)	SLEEP (dBA)	
FCU-A-P2-1	LSN363HLV3	DUCTLESS	ELEC SWITCHBOARD P214	1095	0.5	410a	34.0	80	67	53	75	NA	NA	208/1	40.8	51	47	43	33	
FCU-A-1-1	LSN090HSV5	DUCTLESS	FIRE COMMAND CENTER A124	459	0.5	410a	6.0	80	67	53	75	NA	NA	208/1	18.3	39	33	23	19	
FCU-A-6-1	LSN243HLV3	DUCTLESS	ELEC A602	813	0.5	410a	20.0	80	67	53	75	NA	NA	208/1	36.6	49	44	40	30	
FCU-A-B1-1	LSN120HSV5	DUCTLESS	STORAGE A001	459	0.5	410a	12.0	80	67	53	75	NA	NA	208/1	18.3	39	33	23	19	
FCU-B-B-1	ARNU303SVA4	DUCTLESS	FIRE PUMP ROOM B011	812	0.5	410a	30.0	80	67	53	75	NA	NA	208/1	37	49	44	42	NA	1
FCU-B-P2-1	LSN120HSV5	DUCTLESS	ELEC EMERGENCY P265	459	0.5	410a	12.0	80	67	53	75	NA	NA	208/1	18.3	39	33	23	19	
FCU-B-P1-1	LSN243HLV3	DUCTLESS	ELECTRICAL P107	813	0.5	410a	20.0	80	67	53	75	NA	NA	208/1	36.6	49	44	40	30	
FCU-B-7-1	LSN120HSV5	DUCTLESS	ELEC B706	459	0.5	410a	12.0	80	67	53	75	NA	NA	208/1	18.3	39	33	23	19	
FCU-C-P1-1	LSN120HSV5	DUCTLESS	ELEC ROOM C007	459	0.5	410a	12.0	80	67	53	75	NA	NA	208/1	18.3	39	33	23	19	

AIR COOLED CONDENSER (OUTDOOR UNIT) SCHEDULE

DESIGNATION	LG MODEL NUMBER	COOLING CAPACITY MBH	OUTDOOR TEMP (°F)	SEER	ELECTRICAL			WEIGHT (LBS)	SOUND DATA (dBA)	NOTES
					MOP	MCA	VOLTAGE/ PHASE			
CU-A-P2-1	LSU363HLV3	34	14	18.5	30	23	208/1	147.9	55	
CU-A-P2-2	LSU090HSV5	9	14	23.5	15	10	208/1	74.1	45	
CU-A-R-1	LSU243HLV3	22	14	21.5	30	19	208/1	135.4	55	
CU-A-P2-3	LSU120HSV5	12	14	22.7	15	10	208/1	74.1	45	
CU-B-P2-2	ARUN060GSS4	60	14	NA	40	25.4	208/1	260	57	
CU-B-P2-1	LSU120HSV5	12	14	22.7	15	10	208/1	74.1	45	
CU-B-P1-1	LSU243HLV3	22	14	21.5	30	19	208/1	135.4	55	
CU-B-R-1	LSU120HSV5	12	14	22.7	15	10	208/1	74.1	45	
CU-C-P1-1	LSU120HSV5	12	14	22.7	15	10	208/1	74.1	45	

GENERAL NOTES:
A) UNLESS NOTED OTHERWISE, ALL SPLIT SYSTEM INDOOR UNITS ARE POWERED FROM THE OUTDOOR UNIT. LINE VOLTAGE WIRING FROM OUTDOOR UNIT TO INDOOR UNIT BY DIVISION 26.
B) ALL SPLIT SYSTEMS TO BE ON EMERGENCY POWER.
C) ALL SPLIT SYSTEMS TO BE COOLING ONLY, PROVIDED WITH CONDENSATE PUMP.
D) REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RL / RS SIZING

NUMBERED NOTES:
1. PROVIDE TWO HEADS IN THE FIRE PUMP ROOM B011

REMOTE RADIATOR (FOR INFORMATION ONLY, FURNISHED BY OTHERS)

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	CFM	STATIC PRESSURE (IN. WG.)	RPM	BHP	CIRCUIT-1			CIRCUIT-2			MOTOR		OPERATING WEIGHT (LBS)	SOUND DATA (dBA)	NOTES
							GPM	INLET TEMP (°F)	OUTLET TEMP (°F)	GPM	INLET TEMP (°F)	OUTLET TEMP (°F)	HP	VOLTAGE/ PHASE			
RR-B-P1-1	REMOTE RADIATOR FOR GENSET	YOUNG TOUCHSTONE VB	27000	1.00	666	14	160	219	203.8	80	167.6	146	15	460/3	4517	82 @ 25 FT	1

NOTES:
1. SYSTEM DESIGNED WITH 50% ETHYLENE GLYCOL AND 7,000 FT ELEVATION.

POLLUTION CONTROL UNIT

DESIGNATION	MANUF. MODEL NUMBER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA AMPS	WEIGHT (LBS)	SONES	NOTES
PCU-A-B-1	CAPTIVEAIRE KB25	6240	2.0	1356	TECH, HIGH TEMP WASHDOWN	10.0	5.8	3	460	12.0	4,352	27	1,2

NOTES:
1. COMPLY WITH UL762.
2. MERV 15 HIGH EFFICIENCY FILTERS, MERV 18 HEPA FILTERS AND CARBON FILTERS.

PUMP - GENERATOR REMOTE RADIATOR (FOR INFORMATION ONLY, FURNISHED BY OTHERS)

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	TYPE	GPM	HEAD (FT H2O)	MINIMUM EFFICIENCY (PERCENT)	CASING PRESSURE (PSIG)	RPM	MOTOR			EMERG. POWER (Y/N)	VAR. SPEED (Y/N)	NOTES
									BRAKE HP	NON-OVERLOADING HP	VOLTAGE/ PHASE			
RRP-B-P2-1	GENSET REMOTE RADIATOR	SCOT 471-4.38x2x2	END SUCTION	80	50	72	175	3500	1.48	2	480/3	N	N	1

NOTES:
1. SYSTEM DESIGNED WITH 50% ETHYLENE GLYCOL AND 7,000 FT ELEVATION

KITCHEN HOOD MAKE-UP AIR UNIT

DESIGNATION	MANUF. MODEL NUMBER	BLOWER	HOUSING	MIN. CFM	DESIGN CFM	ESP (IN. WG.)	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA (A)	MOCP (A)	EVAP FLOW RATE (GAL/HR)	EVAP COOLER ENTERING DB TEMP. (°F)	EVAP COOLER ENTERING WB TEMP.(°F)	EVAP COOLER LEAVING DB TEMP.(°F)	EVAP COOLER LEAVING WB TEMP.(°F)	WEIGHT (LBS)	SONES	GAS INPUT BTUs	GAS OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFCIENCY(%)	NOTES
MUA-A-P2-1	CAPTIVEAIRE A2-D.500-20D	20MF-2-MOD	A2-D.500	2500	5148	0.5	2105	ODP, PREMIUM	7.50	4.14	3	460	9.6	12	20	7	95	63	76	63	928	27	323777	297875	70°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92	1,2

NOTES:
1. MOTORIZED BACK DRAFT DAMPER.
2. EVAP COOLER (LPD CELDEK), MERV 8 FILTER.

MECH KITCHEN HOOD (FOR INFORMATION ONLY, FURNISHED BY OTHERS)

HOOD NO.	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP. (°F)	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.		FILTER(S)					LIGHT(S)			FIRE SYSTEM PIPING	HOOD HANGING WEIGHT (LBS)	NOTES
									HEIGHT	DIA	CFM	VELOCITY (FPM)	SP (IN. WG.)			END TO END	ROW	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD			
1	6024 ND-2-PSP-F	CAPITVEAIRE	13' 0"	600	I	HEAVY	240	3120	4"	18"	3120	1766	- 1.011"	2496	430 SS WHERE EXPOSED	LEFT	ALONE	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO	YES	679	1
2	6024 ND-2-PSP-F	CAPITVEAIRE	13' 0"	600	I	HEAVY	240	3120	4"	18"	3120	1766	- 1.011"	2652	430 SS WHERE EXPOSED	RIGHT	ALONE	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E27	NO	YES	1142	1
3	5424 VHB-G	CAPITVEAIRE	7' 0"	700	II	N/A	150	1050	4"	12"	1050	1337	- 0.129"	0	430 SS 100%	ALONE	ALONE	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	NO	218	

NOTES:
1. BALANCE DAMPERS.

Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Marinelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnuson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Ox
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by
job no.
date 5/31/2024

revisions:

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no. date by

IFC Set 3 of 3
5/31/2024

MECHANICAL SCHEDULES

M0.06

LOUVER COORDINATION MATRIX - REFERENCE ARCH SPECIFICATION AND SELECTIONS

EQUIPMENT	SERVICE	EXHAUST LOUVERS						INTAKE LOUVERS					
		TYPE	AIR VOLUME (CFM)	VELOCITY (FPM)	SQFT NFA	LOCATION	NOTES	TYPE	AIR VOLUME (CFM)	VELOCITY (FPM)	SQFT NFA	LOCATION	NOTES
GEF-A-X	GARAGE TOWER-A LVL-P2	EXHAUST	7800	750	10.4	A-B/4	3	INTAKE	7800	600	13.0	A-D/12	2, 6
GEF-B-X	GARAGE TOWER-B LVL-P1	EXHAUST	11,260	750	15.0	B-T/22	3	INTAKE	11260	500	22.5	B-L/18	2, 6
GEF-B-X	GARAGE TOWER-B LVL-P2	EXHAUST	15,000	750	20.0	B-T/22	3	INTAKE	15000	600	25.0	A-D/12	2, 6
EF-B-1-HOOD	KITCHEN B105 HOOD	EXHAUST	1,200	750	1.6	B-J/18	3	-	-	-	-	-	-
BEF-B-3,4,6	BOILER COMBUSTION AIR	-	-	-	-	-	-	INTAKE	13380	600	22.3	B-K/20	4
GEF-C-X	GARAGE TOWER-C LVL-P1	EXHAUST	5100	750	6.8	C-A/9	3	INTAKE	5100	500	10.2	C-C/10	2, 6
AHU-A-B-1	VENTILATION TOWER-A LVL-B	EXHAUST	1280	750	1.7	A-B/4	3	INTAKE	1500	600	2.5	A-I/12	4
AHU-A-1-1	VENTILATION TOWER-A LVL-1 DINNING	EXHAUST	2700	750	3.6	A-B/4	3	INTAKE	2700	600	4.5	Wal Louver	4
EF-A-1-1	KITCHEN PROOFER EXHAUST	EXHAUST	1050	750	1.4	A-B/4	3	-	-	-	-	-	-
AHU-A-B-2	VENTILATION TOWER-A LVL-1	EXHAUST	1760	750	2.3	A-B/4	3	INTAKE	2000	600	3.3	A-I/12	4
B-A-B-1, 2, 3	BOILER COMBUSTION AIR	-	-	-	-	-	-	INTAKE	1050	600	1.8	A-I/12	4
AHU-A-1-3	KITCHEN EXHAUST TOWER-A LVL-1	EXHAUST	6400	750	8.5	A-B/4	1	INTAKE	6400	600	10.7	A-A/4	4
AHU-B-1-1	VENTILATION TOWER-B LVL-B	EXHAUST	650	750	0.9	B-T/22	3	INTAKE	1525	600	2.5	B-U/20	4
AHU-P1-1	VENTILATION TOWER-B LVL-1	EXHAUST	2800	750	3.7	B-T/22	3	INTAKE	1600	600	2.7	B-U/20	4
AHU-L-1-1	VENTILATION MAIN LOBBY LVL-1	-	-	-	-	-	-	INTAKE	400	500	0.8	Wal Louver	4
AHU-C-1-1	VENTILATION TOWER-C LVL-1	EXHAUST	1030	750	1.4	C-A/9	3	INTAKE	1030	600	1.7	C-B/9	4
BEF-C-2	BOILER COMBUSTION AIR	-	-	-	-	-	-	INTAKE	1050	600	1.8	C-B/9	4
EF-TR-A-P2	TOWER-A TRASH ROOM	EXHAUST	550	750	0.7	A-B/4	3	-	-	-	-	-	-
SPF-B-P1-1	TOWER-B STAIR-06 PRESSURIZATION	-	-	-	-	-	-	INTAKE	4000	600	6.7	B-U/20	4
SPF-B-P1-2	TOWER-B STAIR-07 PRESSURIZATION	-	-	-	-	-	-	INTAKE	5000	600	8.3	B-U/20	4
SPF-B-P1-3	TOWER-B STAIR-08 PRESSURIZATION	-	-	-	-	-	-	INTAKE	7000	600	11.7	B-U/20	4
SPF-B-P1-4	TOWER-B STAIR-09 PRESSURIZATION	-	-	-	-	-	-	INTAKE	4000	600	6.7	B-U/20	4
GENERATOR	GENERATOR RADIATOR AIR	EXHAUST	27000	750	36.0	B-T/22	3	INTAKE	27000	600	45.0	B-U/20	4
GENERATOR	GENERATOR COMBUSTION FLUE	EXHAUST	5000	-	-	-	1	INTAKE	5000	600	8.3	B-U/20	4
BOILER FLUE	BOILER FLUE EXHAUST	EXHAUST	TBD	-	-	-	5	-	-	-	-	-	-

NOTES;
1. EXHAUST CLEARANCE PER IMC 506.3.13.3; 10 HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDINGS, ADJACENT BUILDINGS AND ADJACENT PROPERTY LINES, 10 FEET ABOVE THE ADJOINING GRADE LEVEL. 10 FEET HORIZONTALLY FROM OR NOT LESS THAN 3 FEET ABOVE AIR INTAKE OPENINGS INTO ANY BUILDING. EXCEPTION: OUTLETS SHALL TERMINATE NOT LESS THAN 5 FEET HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDING, AN ADJACENT BUILDING, ADJACENT PROPERTY LINE AND AIR INTAKE OPENINGS INTO A BUILDING WHERE AIR FROM THE EXHAUST OUTLET DISCHARGES AWAY FROM SUCH LOCATIONS.
2. PASSIVE MAKEUP AIR INTAKE CLEARANCE PER IMC 401.4 (1): 10 FEET FROM LOT LINES OR BUILDINGS ON THE SAME LOT
3. ENVIRONMENTAL AIR EXHAUST CLEARANCE PER IMC 501.3.1 (3): 3 FEET FROM PROPERTY LINES; 3 FEET FROM OPERABLE OPENINGS INTO BUILDINGS, AND 10 FEET FROM MECHANICAL AIR INTAKES.
4. MECHANICAL AIR INTAKE CLEARANCE PER IMC 401.4 (2): 10 FEET FROM LOT LINES OR BUILDINGS ON THE SAME LOT, 10 FEET HORIZONTALLY FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SOURCE.
5. TERMINATION OF BOILER VENTS PER IMC 804 WITH POWER EXHAUSTERS SHALL BE LOCATED NOT LESS THAN 10-FT FROM THE LOT LINE OR FROM ADJ BUILDINGS AND EXHAUST SHALL BE LOCATED AWAY FROM BUILDINGS. HORIZONTAL TERMINATION: 1) ADJ TO WALKWAYS, TERMINATION OF MECHANICAL DRAFT SYSTEMS SHALL BE NOT LESS THAN 10-FT ABOVE LEVEL OF WALKWAY. 2) VENT SHALL TERMINATE AT LEAST 3-FT ABOVE ANY FORCED AIR INLET LOCATED WITHIN 10-FT. 3) VENTS SHALL TERMINATE AT LEAST 4-FT BELOW, 4-FT HORIZONTALLY FROM OR 1-FT ABOVE ANY DOOR, WINDOW OR GRAVITY AIR INLET INTO BUILDING. 4) VENT SHALL NOT BE LOCATED CLOSER THAN 3-FT TO AN INTERIOR CORNER FORMED BY TWO WALLS PERPENDICULAR TO EACH OTHER. 5) VENT SHALL NOT BE MOUNTED DIRECTLY ABOVE OR WITHIN 3-FT HORIZONTALLY FROM AN OIL TANK VENT OR GAS METER. 6) BOTTOM OF THE VENT TERMINATION SHALL BE LOCATED AT LEAST 12" ABOVE FINISHED GRADE. VERTICAL TERMINATION: 1) ADJ TO WALKWAYS, TERMINATION OF MECHANICAL DRAFT SYSTEMS SHALL BE NOT LESS THAN 10-FT ABOVE LEVEL OF WALKWAY. 2) VENT SHALL TERMINATE AT LEAST 3-FT ABOVE ANY FORCED AIR INLET LOCATED WITHIN 10-FT. 3) VENTS LOCATED BELOW AN ADJACENT ROOF STRUCTURE SHALL BE LOCATED NOT LESS THAN 3-FT FROM THE STRUCTURE. 4) VENTS SHALL TERMINATE AT LEAST 4-FT BELOW, 4-FT HORIZONTALLY FROM OR 1-FT ABOVE ANY DOOR, WINDOW OR GRAVITY AIR INLET INTO BUILDING. 5) VENT CAP SHALL BE INSTALLED TO PREVENT RAIN FROM ENTERING THE VENT SYSTEM AND 6) TERMINATION SHALL BE LOCATED NOT LESS THAN 3-FT HORIZONTALLY FROM ANY PORTION OF THE ROOF STRUCTURE.
6. ARCH SHALL PROVIDE PERF ROLL-UP DOOR FOR GARAGE INTAKE.

SNOW MELT HEADER

DESIGNATION	LOCATION / SERVICE	QUANTITY	FLOW GPM		LOOP			DESIGN SURFACE TEMP (°F)	FLUID TEMP. - LOOP		FLOOR TOTAL AREA (SQ FT)	TOTAL RADIANT LOAD (MBH)	NOTES
			TOTAL HEADER	PER LOOP	QTY. OF LOOPS	HEAD LOSS	TUBE TOTAL LENGTH (FT)		EWT (°F)	LWT (°F)			
SMH-SMA-1	POOLSIDE SIDEWALK	NOT USED											
SMH-SMA-2	POOL DECK	NOT USED											
SMH-SMA-3	ENTRY	NOT USED											
SMH-SMA-4	LOBBY ENTRY	NOT USED											
SMH-SMA-5	BACK ENTRY	NOT USED											
SMH-SMB-1	POOL DECK	NOT USED											
SMH-SMB-2	SIDEWALK	NOT USED											
SMH-SMB-3	DRIVEWAY	NOT USED											
SMH-SMC-1	SIDEWALK	NOT USED											
SMH-SMC-2	ENTRY	NOT USED											
SMH-AB-1	TOWER A LEVEL B WELL	NOT USED											
SMH-AP-1	TOWER A LEVEL P2 WELL	NOT USED											
SMH-AP-2	TOWER A LEVEL P2 WELL	NOT USED											
SMH-AP-3	TOWER A LEVEL P2 ENTRY WAY	NOT USED											
SMH-B1-1	TOWER B LVL 1 WELL	NOT USED											
SMH-B1-2	TOWER B LVL 1 WELL	NOT USED											
SMH-B1-3	TOWER B LVL 1 WELL	NOT USED											
SMH-CP-1	TOWER C LVL P1 WELL	NOT USED											
SMH-A-1	UNIT A / PLAN NORTH	NOT USED											
SMH-A-2	UNIT A / PLAN SOUTH	NOT USED											
SMH-B-1	UNIT B / PLAN NORTH	NOT USED											
SMH-B-2	UNIT B / PLAN SOUTH	NOT USED											
SMH-C-1	UNIT C	NOT USED											
SMH-D-1	UNIT D / PLAN NORTH	NOT USED											
SMH-D-2	UNIT D / PLAN SOUTH	NOT USED											
SMH-E-1	UNIT E	NOT USED											
SMH-F-1	UNIT F / PLAN WEST	NOT USED											
SMH-F-2	UNIT F / PLAN SOUTH	NOT USED											
SMH-G-1	UNIT G	NOT USED											
SMH-H-1	UNIT H / PLAN WEST	NOT USED											
SMH-H-2	UNIT H / PLAN NORTH	NOT USED											
SMH-I-1	UNIT I / PLAN NW	NOT USED											
SMH-I-2	UNIT I / PLAN NORTH CENTER	NOT USED											
SMH-I-3	UNIT I / PLAN NE	NOT USED											
SMH-I-4	UNIT I / PLAN SE	NOT USED											
SMH-I-5	UNIT I / PLAN SW	NOT USED											
SMH-J-1	UNIT J / PLAN NORTH	NOT USED											
SMH-J-2	UNIT J / PLAN WEST	NOT USED											
SMH-J-3	UNIT J / PLAN SOUTH	NOT USED											
SMH-K-1	UNIT K / PLAN NORTH	NOT USED											
SMH-K-2	UNIT K / PLAN SOUTH	NOT USED											
SMH-L-1	UNIT L / PLAN SOUTH	NOT USED											
SMH-M-1	UNIT M / PLAN SOUTH	NOT USED											
SMH-M-2	UNIT M / PLAN EAST	NOT USED											
SMH-N-1	UNIT N / PLAN NORTH	NOT USED											
SMH-N-2	UNIT N / PLAN WEST	NOT USED											
SMH-O-1	UNIT O / PLAN NORTH	NOT USED											
SMH-O-2	UNIT O / PLAN WEST	NOT USED											
SMH-P-1	UNIT P	NOT USED											

GENERAL NOTES:

NOTES:

SILENCERS - BLDGS A & B

DESIGNATION	SYSTEM	TYPE	DIMENSIONS			AIRFLOW, CFM	VELOCITY, FPM	IDEAL DP IN.W.G.	MAX.DP W/SYS EFF, IN.W.G.	MINIMUM DYNAMIC INSERTION LOSS, Db						BASIS OF DESIGN VIBRO-ACOUSTICS MODEL NUMBER	NOTES
			DUCT WIDTH, IN.	DUCT HEIGHT, IN.	LENGTH, IN.					OCTAVE BAND CENTER FREQUENCY, HZ							
										125	250	500	1000	2000	4000		
SA-A-R-1	BLDG-A-WEST-DISCHARGE	RD	86	84	36	43666	+870	0.13	0.26	8	14	17	19	17	14	RD-MLV-31425	
SA-A-R-2	BLDG-A-EAST-DISCHARGE	RD	86	84	36	87544	+1745	0.14	0.28	3	7	14	19	16	14	RD-HV-31425	
SA-B-R-1	BLDG-B-NORTH-DISCHARGE	RD	86	84	36	43666	+870	0.13	0.26	8	14	17	19	17	14	RD-MLV-31425	
SA-B-R-2	BLDG-B-SOUTH-DISCHARGE	RD	86	84	36	87544	+1745	0.14	0.28	3	7	14	19	16	14	RD-HV-31425	

GENERAL NOTES:
A. TYPE: R - RECTANGULAR D - DISSIPATIVE
B. VELOCITY IS SHOWN + (FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-20.
C. IDEAL PRESSURE DROP AS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
D. PRESSURE DROP PER ASTM E477-20 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.
E. MINIMUM DYNAMIC INSERTION LOSS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
F. FOR NON-BASIS OF DESIGN PRODUCT SUPPLIED, CONTRACTOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED TO ACHIEVE SPECIFIED NC LEVEL IN SPACES.

SILENCERS - BLDG C

TAG NUMBER	SILENCER MODULE	EQUIPMENT SERVED	QUANTITY	SIZE (in)			AIRFLOW (CFM)	P.D. INCLUDING SYSTEM EFFECTS (in.wg)	PROJECT SOUND REQUIREMENT	MANUFACTURER	MODEL NUMBER	NOTES
				W	L	H						
SA-C-R-1	INTAKE SILENCER	ASHP-C-R-1	1	288	204	36	-95178	0.09	55 dBA ABOUT 7 FT TO THE CLOSEST PROPERTY LINE	VIBRO-ACOUSTICS	VA-AY29138	1,3,5,5,6
SA-C-R-2	DISCHARGE SILENCER	ASHP-C-R-1	1	198	86	96	95178	0.23				2,3,4,5,6
	PACKAGE OVERALL DIMENSION	ASHP-C-R-1	1	288	204	192	N/A	N/A				-

NOTES:
1. Rectangular Dissipative silencer integrated and to be installed on top of the pit wall(provided by others). Include 2" x 2" birdscreen at the inlet.
2. Rectangualr Dissipative silencer integrated and to be installed on top of the chiller with access doors. Include 2" x 2" birdscreen at the outlet.
3. Manufacturer must design self-supporting structural steel and withstand the seismic and wind load requirement. Manufacturer to provide calculations with PE stamp during the submittal process.
4. Alternate manufacturer must submit acoustical calculations with PE stamp to demonstrate that the silencers will result to dBA requirement as scheduled.
5. Alternate manufacturer must submit pressure drop calculations inlcuding system effects with PE stamp.
6. For non-basis of design product, contractor is financially responsible to meet the project sound requirement.

Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O:
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
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J	01/10/2025	ASI 6
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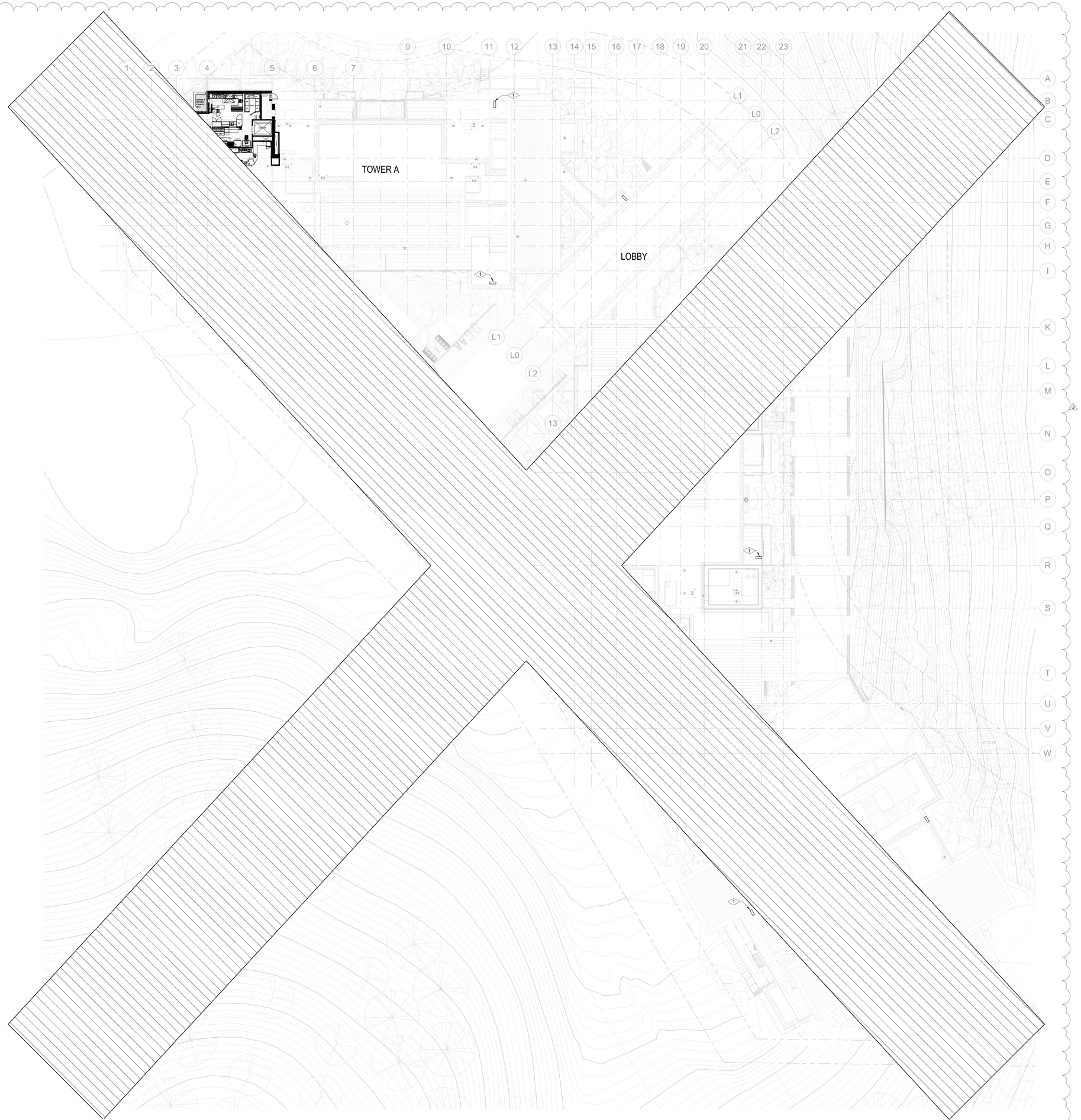
MECHANICAL SCHEDULES

M0.07



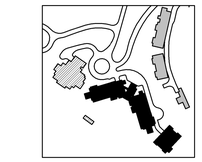
SHEET NOTES:

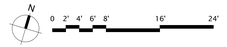
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.

NUMBERED NOTES:

1

1 NOT USED - MECHANICAL SITE PLAN - SNOW MELT
SCALE: 1/16" = 1'-0"





Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project:
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
date 5/31/2024

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5/31/2024

MECHANICAL SITE PLAN - SNOW MELT

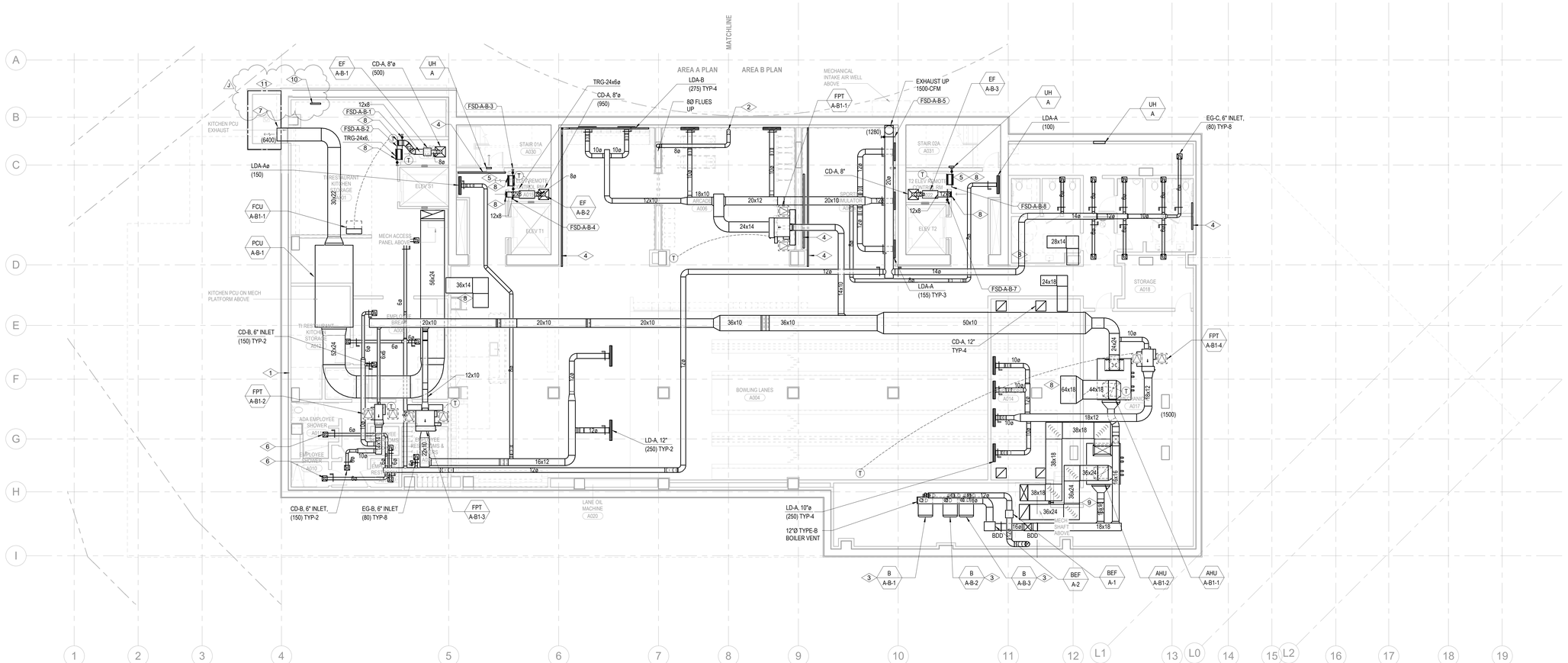
M1.00

SHEET NOTES:

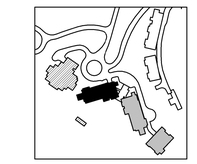
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ARCHITECT SHALL PROVIDE 1-SQFT NFA OPENINGS IN ALL FULL HEIGHT, NON-RATED WALLS FOR RETURN AIR PATHS IF NO DUCT TRANSFER IS SHOWN.
E. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
F. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
G. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
H. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04

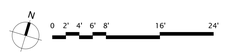
NUMBERED NOTES:

1 FUTURE KITCHEN EQUIPMENT AND INFRASTRUCTURE PROVIDED UNDER SEPARATE PERMIT.
2 CONNECT TO MANUFACTURED FIREPLACE. SEE FIREPLACE INSTRUCTIONS FOR MORE INFORMATION.
3 PROVIDE ENERVEX SMDS-8 MODULATING DAMPER OFF BOILER EXHAUST STACK WITH 120V/1PH ELECTRICAL POWER.
4 3" FREE AIR GAP ALONG THIS WALL FOR RETURN AIR. SEE ARCH DRAWINGS
5 FSD ACCESS IN ELECTRICAL ROOM.
6 GRILL AND DUCTWORK BACK TO BRANCH LINE SHALL BE STAINLESS STEEL CONSTRUCTION
7 PROTECT EXHAUST DUCT OPENING INTO WELL WITH WMS.
8 DISCHARGE AND/OR INTAKE ABOVE CEILING PLENUM. PROTECT OPENING WITH WMS
9 PROVIDE MODULATING PRESSURE CONTROLLER WITH 120V/1PH ELECTRICAL POWER
10 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
11 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT LOCATION TO BE DESIGN BUILD BY OTHERS



1 TOWER A - LEVEL B MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O.
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
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revisions:

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IFC Set 3 of 3
5/31/2024

TOWER A - LVL B MECHANICAL DUCT PLAN

M2.2A.01

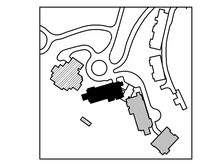
SHEET NOTES:

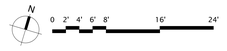
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL DUCTS AND EQUIPMENT LOCATED IN THE GARAGE SHALL BE INSTALLED TIGHT TO UNDERSIDE OF THE SLAB TO MAINTAIN 8'-6" CLEARANCES FOR VEHICLES.

NUMBERED NOTES:

1 GARAGE EXHAUST FANS TO BE STACKED AT THE EXHAUST WELL WALL UNDER THE DUCT PENETRATIONS SHOWN. SEE DETAIL-7, SHEET M5.01.
2 SEE ARCHITECTURAL DRAWINGS FOR EXHAUST WELL INFORMATION.
3 ARCHITECT TO PROVIDE 41-SQFT NFA GARAGE INTAKE.
4 FSD ACCESS IN ELECTRICAL ROOM.
5 DISCHARGE AND/OR INTAKE ABOVE CEILING PLENUM. PROTECT OPENING WITH WMS
6 COORDINATE LOCATION OF THERMOSTAT WITH LOCATION OF KITCHEN CONDENSING UNITS. SUSPEND THERMOSTAT APPX. 6" FROM BOTTOM OF SLAB. SEE FAN SCHEDULES FOR CONTROL OPERATION OF GTF-A-P2-06, GTF-A-P2-07, GTF-A-P2-08, AND GEF-A-P2-1,2,3
7 PROTECT EXHAUST DUCT OPENING INTO WELL WITH WMS
8 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
9 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS

1 TOWER A - PARKING LEVEL 2 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
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8300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
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Friday Group
88 Mainelli Road
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Holmes
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Seattle, WA 98104

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Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnussen Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Oi
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
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5/31/2024

TOWER A - LVL P2 MECHANICAL DUCT PLAN

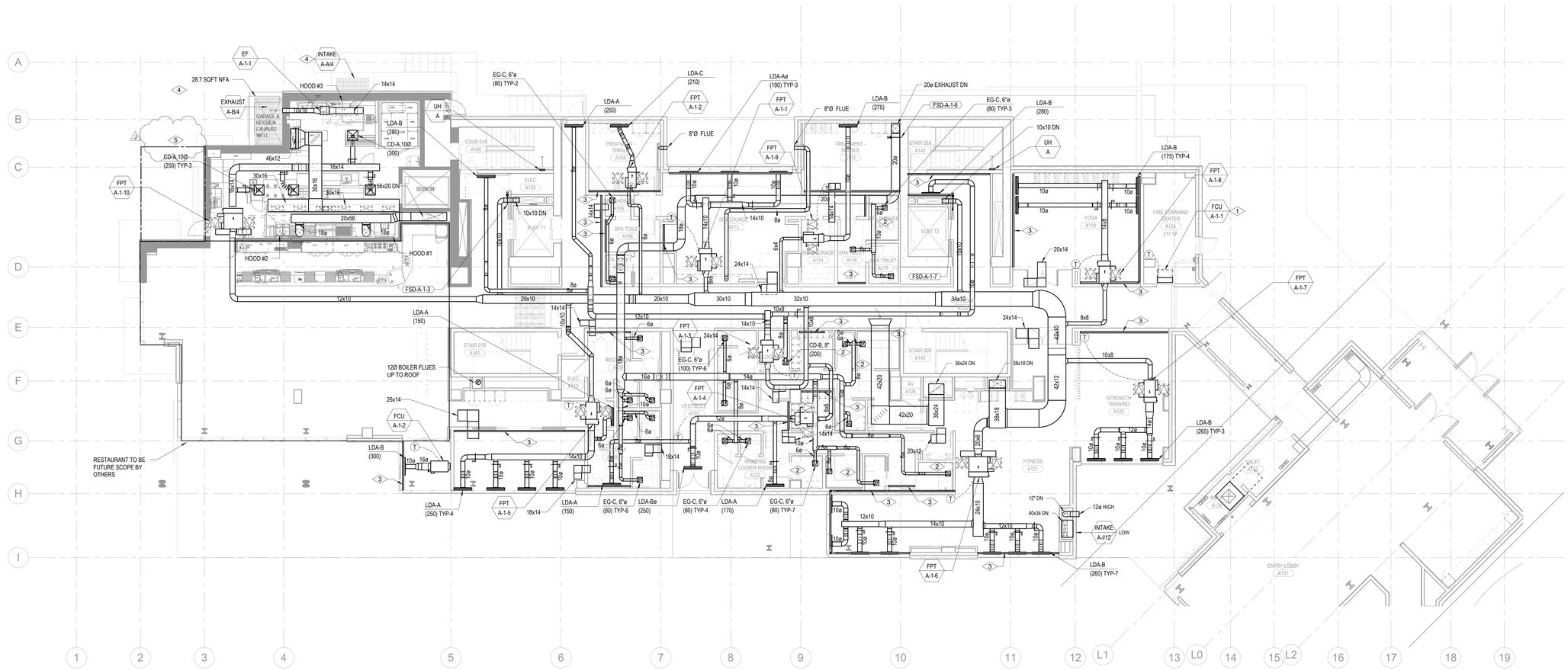
M2.2A.02

SHEET NOTES:

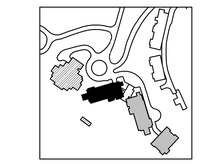
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ARCHITECT SHALL PROVIDE 1-SQFT NFA OPENINGS IN ALL FULL HEIGHT, NON-RATED WALLS FOR RETURN AIR PATHS IF NO DUCT TRANSFER IS SHOWN.
E. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
F. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
G. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
H. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04
I. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.

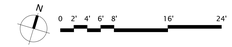
NUMBERED NOTES:

1 ROUTE CONDENSATE TO NEAREST SINK DRAIN AIR GAP FITTING. SEE 3/M5.04
2 GRILL AND DUCTWORK BACK TO BRANCH LINE SHALL BE STAINLESS STEEL CONSTRUCTION
3 3" FREE AIR GAP ALONG THIS WALL FOR RETURN AIR, SEE ARCH DRAWINGS
4 PROTECT EXHAUST/INTAKE DUCT OPENING INTO WELL WITH WMS.
5 FUTURE SNOWMELT AREA. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A - LEVEL 1 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Marrelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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J	01/10/2025	ASI 6
2	5/31/2024	IFC 3

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5/31/2024

TOWER A - LVL 1 MECHANICAL DUCT PLAN

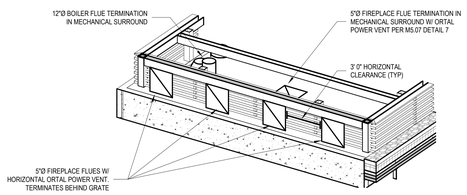
M2.2A.11

SHEET NOTES:

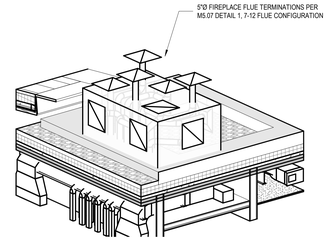
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.

NUMBERED NOTES:

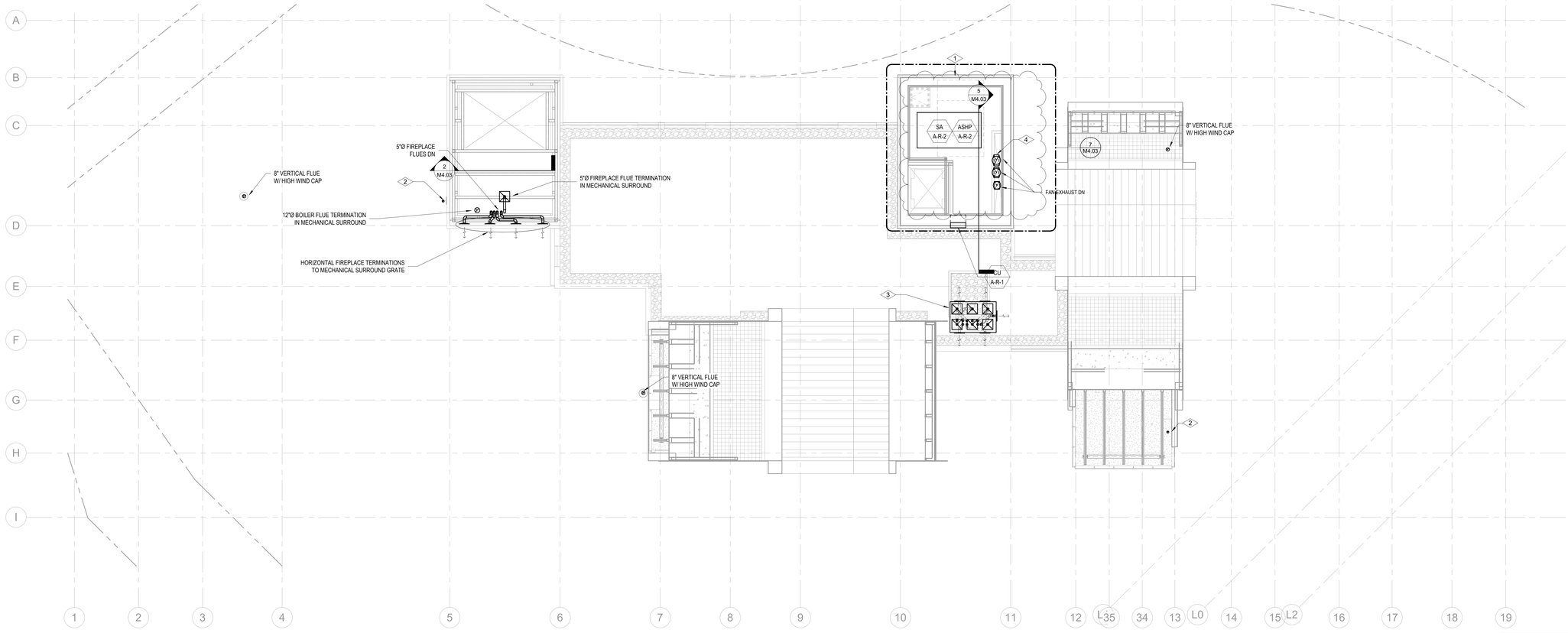
1 36-INCH TALL LOUVER FOR ASHP AIR INTAKE PROVIDED AROUND TOP OF ENTIRE MECHANICAL WELL. SEE ARCHITECTURAL DRAWINGS FOR DETAIL.
2 FIREPLACE FLUE TERMINATIONS TO BE CAPPED WITH ORTAL VERTICAL POWER VENT PER M5.05 DETAIL 4
3 5"Ø FIREPLACE FLUE TERMINATION TO BE CAPPED WITH ORTAL VERTICAL POWER VENT PER M5.07 DETAIL 7
4 EXHAUST FANS TO TERMINATE IN ARCHITECTURAL CEILING CAVITY IN ROOFTOP WELL. EXHAUST TERMINATIONS TO BE LOCATED 1'-0" ABOVE MECHANICAL ROOM CEILING. REFER TO M4.04 DETAIL 1 AND M4.04 DETAIL 5.



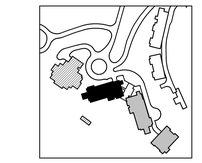
2 TOWER A FLUE TERMINATIONS WEST - ORTHOGRAPHIC
SCALE:

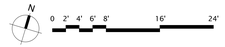


3 TOWER A FLUE TERMINATIONS EAST - ORTHOGRAPHIC
SCALE:



1 TOWER A - ROOF MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





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Olson Kundig
159 South Jackson St, Suite 600
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t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
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Park City, Utah 84060

ASPEN GROUP
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Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
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Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
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Building Envelope Consultant
RDH
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TOWER A - ROOF MECHANICAL DUCT PLAN

M2.2A.R

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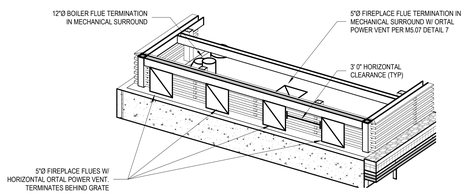
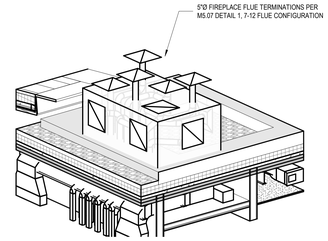


2 TOWER A FLUE TERMINATIONS WEST - ORTHOGRAPHIC
SCALE:



3 TOWER A FLUE TERMINATIONS EAST - ORTHOGRAPHIC
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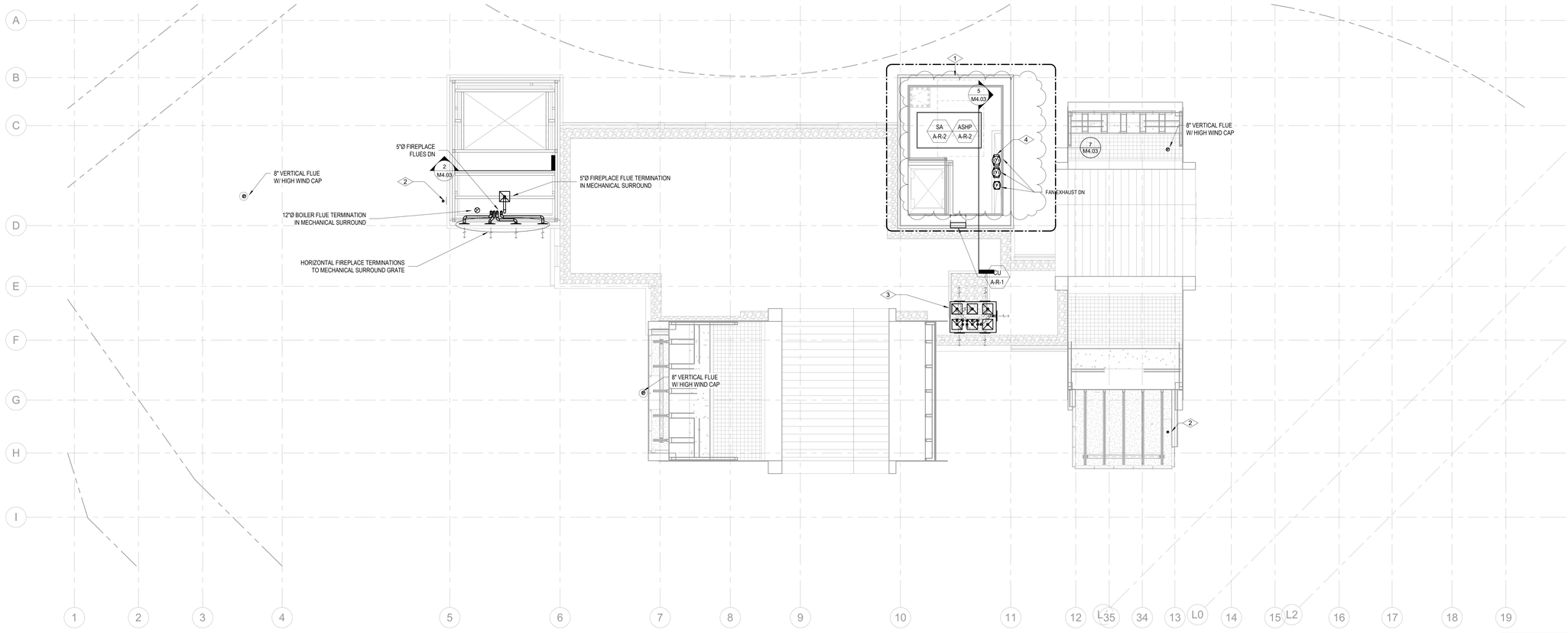

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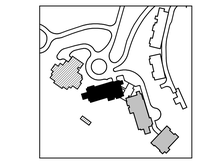

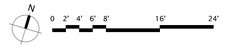

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t: 206.624.5670 olsonkundig.com

project
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TOWER A - ROOF MECHANICAL DUCT PLAN

M2.2A.R

SHEET NOTES:

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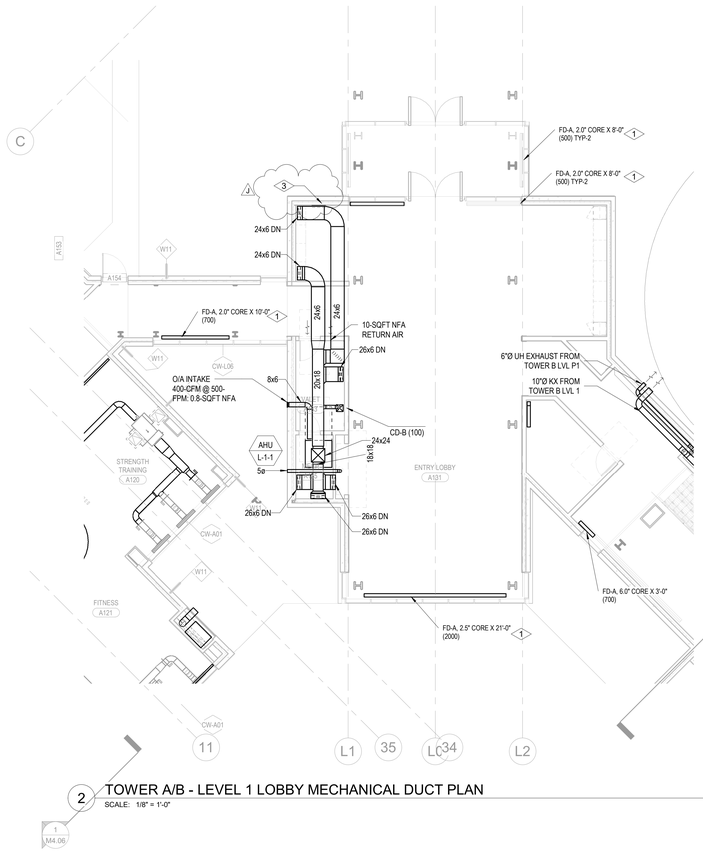
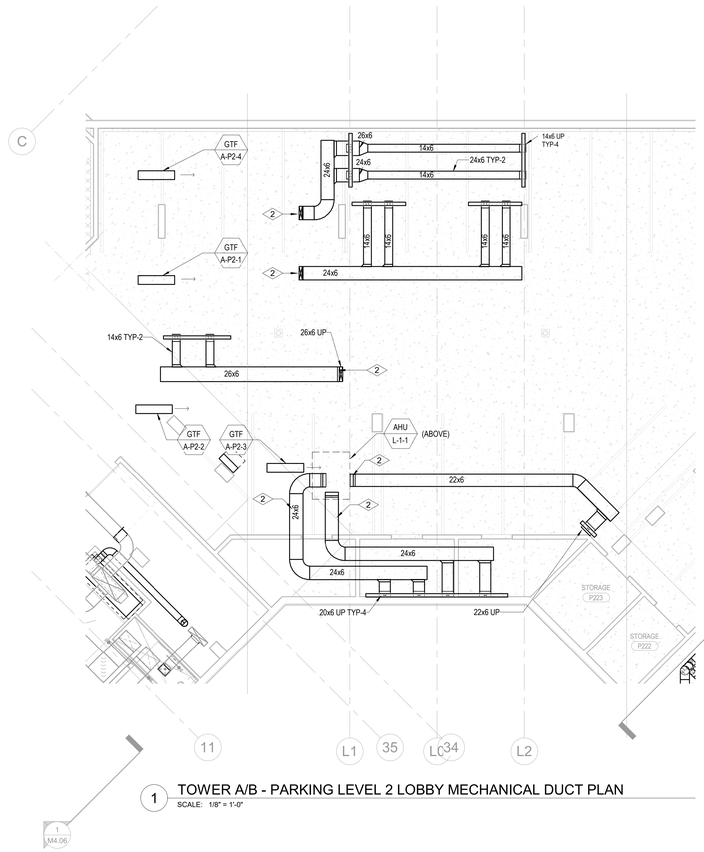
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL DUCTS AND EQUIPMENT LOCATED IN THE GARAGE SHALL BE INSTALLED TIGHT TO UNDERSIDE OF THE SLAB TO MAINTAIN 8'-6" CLEARANCES FOR VEHICLES.
E. ARCHITECT SHALL PROVIDE 1-SQFT NFA OPENINGS IN ALL FULL HEIGHT, NON-RATED WALLS FOR RETURN AIR PATHS IF NO DUCT TRANSFER IS SHOWN.
F. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
G. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
H. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
I. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04

NUMBERED NOTES:

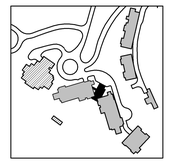
1 PROVIDE CONTINUOUS PLENUM ON UNDERSIDE OF FLOOR GRILL WITHIN INTERSTITIAL SPACE FOR CONNECTION TO DUCT FROM BELOW. PROVIDE REMOTE DAMPER ACTUATORS ACCESSIBLE FROM FLOOR GRILL
2 ARCHITECT SHALL PROVIDE RATED ENCLOSURE WITH DUCT INSTALLED TIGHT TO UNDERSIDE OF SLAB TO PREVENT THE NEED FOR FSDS
3 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



2 TOWER A/B - LEVEL 1 LOBBY MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



1 TOWER A/B - PARKING LEVEL 2 LOBBY MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
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Park City, Utah 84060

ASPEN GROUP
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Lighting Designer
Ot.
1319 SE MLK Blvd, Suite 210
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Building Envelope Consultant
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Studio Pacifica
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MEP Engineer
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MECHANICAL PLANS
TOWER AB LOBBY

M2.2AB.11

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
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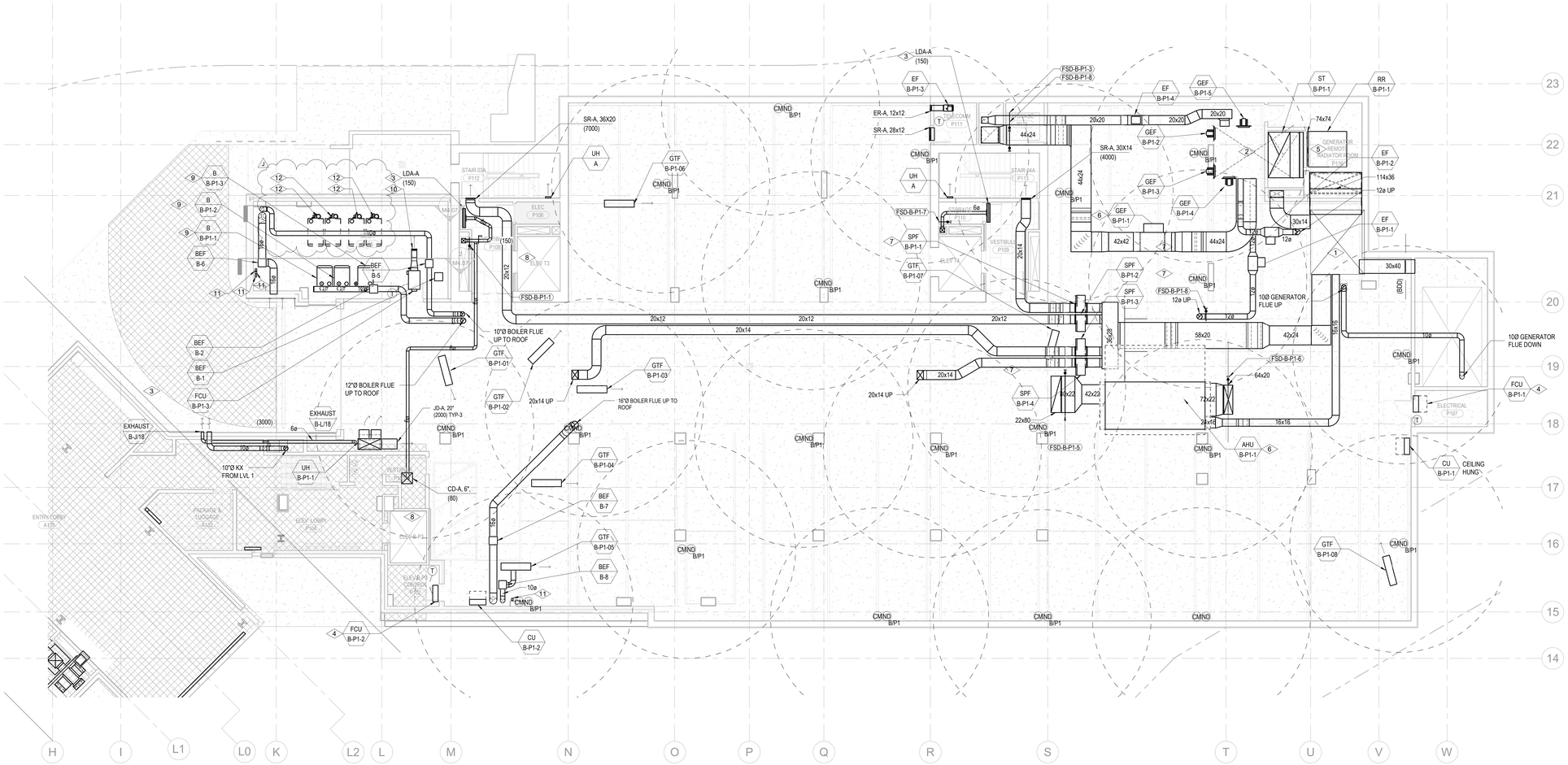
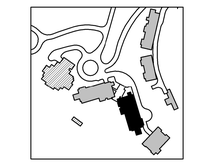
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL DUCTS AND EQUIPMENT LOCATED IN THE GARAGE SHALL BE INSTALLED TIGHT TO UNDERSIDE OF THE SLAB TO MAINTAIN 8'-6" CLEARANCES FOR VEHICLES.

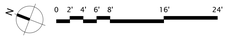
NUMBERED NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR INTAKE WELL INFORMATION.
2. SEE ARCHITECTURAL DRAWINGS FOR EXHAUST WELL INFORMATION.
3. ARCHITECT TO PROVIDE 58-SQFT NFA GARAGE AND SPF AIR INTAKE.
4. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN.
5. GENERATOR REMOTE RADIATOR. PROVIDE BACKDRAFT DAMPERS ON THE EXHAUST AIR DUCT.
6. EQUIPMENT SHALL BE MOUNTED ON MECHANICAL PLATFORM ABOVE GARAGE DRIVE ISLE
7. STAIR PRESSURIZATION FANS AND ASSOCIATED DUCTWORK TO BE LOCATED IN A 2-HR RATED ENCLOSURE ADJACENT TO FAN. SEE ARCHITECTURAL DRAWINGS FOR ENCLOSURE DETAIL.
8. REFER TO M6.04 FOR BLDG B HYDRONIC RISER DIAGRAM AND MECHANICAL ROOM PIPE CONFIGURATION.
9. 1-CFM / SQFT PROVIDED FOR ELEVATOR LOBBY PRESSURIZATION.
10. PROVIDE ENERVEX SMDS-8 MODULATING DAMPER OFF BOILER EXHAUST STACK WITH 120V/1PH ELECTRICAL POWER.
11. DISCHARGE AND/OR INTAKE - PROTECT OPENING WITH WMS.
12. PROVIDE MODULATING PRESSURE CONTROLLER WITH 120V/1PH ELECTRICAL POWER.
13. FUTURE BOILER FOR RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN BUILD BY OTHERS



1 TOWER B - PARKING LEVEL 1 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





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Olson Kundig
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+1 206.624.5670 olsonkundig.com

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TOWER B - LVL P1 MECHANICAL DUCT PLAN

M2.2B.03

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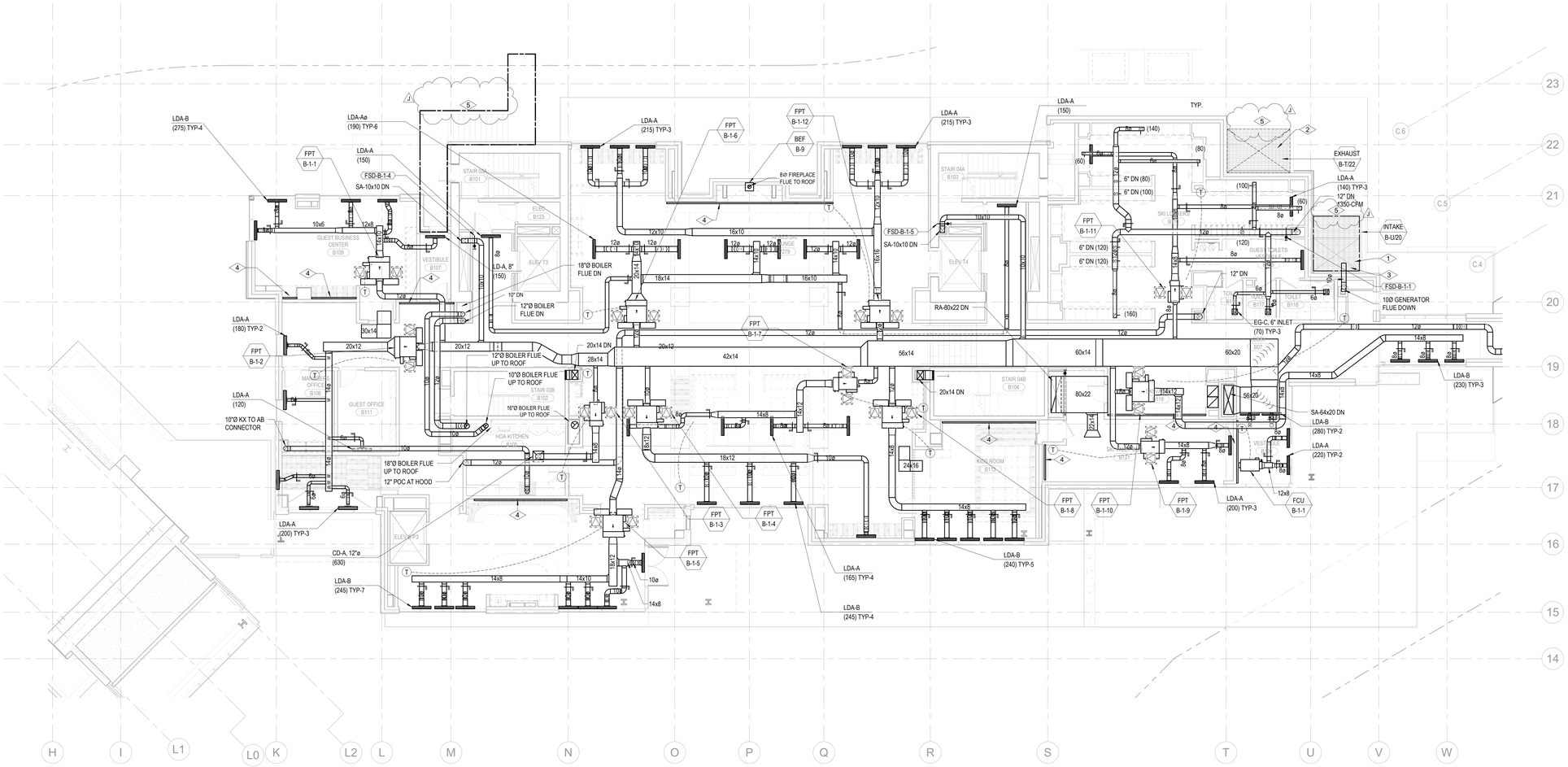
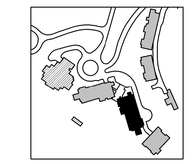
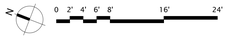
NUMBERED NOTES:

1 SEE ARCHITECTURAL DRAWINGS FOR INTAKE WELL INFORMATION.
2 SEE ARCHITECTURAL DRAWINGS FOR EXHAUST WELL INFORMATION.
3 GENERATOR COMBUSTION SHALL EXHAUST 10' FROM PROPERTY LINES, 3' FROM EXTERIOR WALLS AND ROOFS, 10' ABOVE GRADE AND 10' FROM OPERABLE OPENINGS INTO THE BUILDING.
4 3" FREE AIR GAP ALONG THIS WALL FOR RETURN AIR. SEE ARCH DRAWINGS
5 FUTURE SNOWMELT AREA. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER B - LEVEL 1 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
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J	01/10/2025	ASI 6
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5/31/2024

TOWER B - LVL 1 MECHANICAL DUCT PLAN

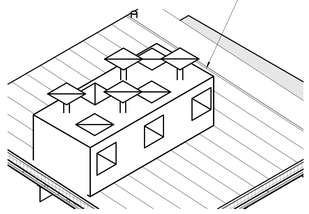
M2.2B.11

SHEET NOTES:

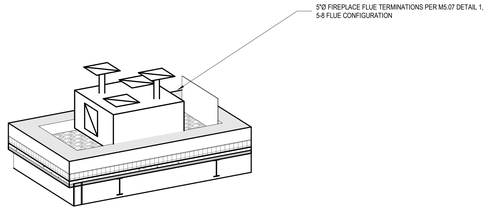
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.

NUMBERED NOTES:

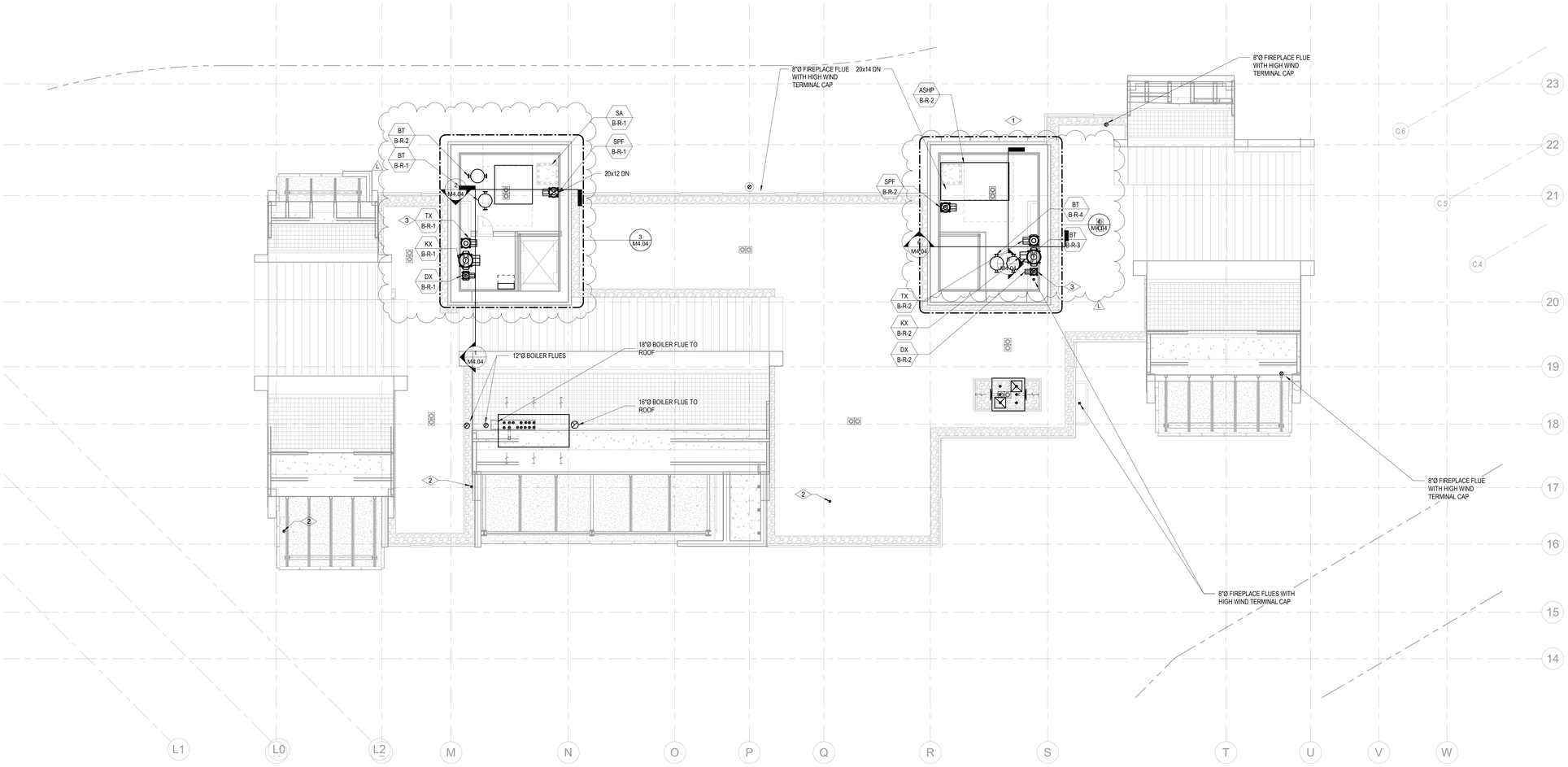
1 STAIR TO BE PROVIDED WITH 2-HR RATED CEILING
2 FIREPLACE FLUE TERMINATIONS TO BE CAPPED WITH ORTAL VERTICAL POWER VENT PER M5.05 DETAIL 4
3 EXHAUST FANS TO TERMINATE IN ARCHITECTURAL CEILING CAVITY IN ROOFTOP WELL. EXHAUST TERMINATIONS TO BE LOCATED 1'-0" ABOVE MECHANICAL ROOM CEILING. REFER TO M4.04 DETAIL 1 AND M4.04 DETAIL 5.



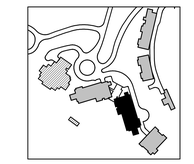
2 TOWER B FLUE TERMINATIONS NORTH - ORTHOGRAPHIC
SCALE:

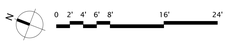


3 TOWER B FLUE TERMINATIONS SOUTH - ORTHOGRAPHIC
SCALE:



1 TOWER B - ROOF MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O:
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
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5/31/2024

TOWER B - ROOF MECHANICAL DUCT PLAN

M2.2B.R

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.

NUMBERED NOTES:

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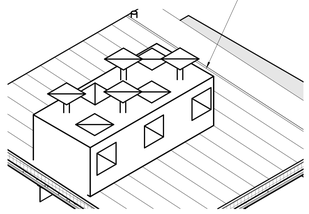
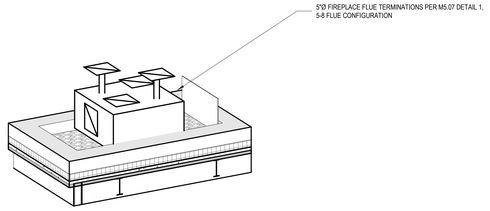
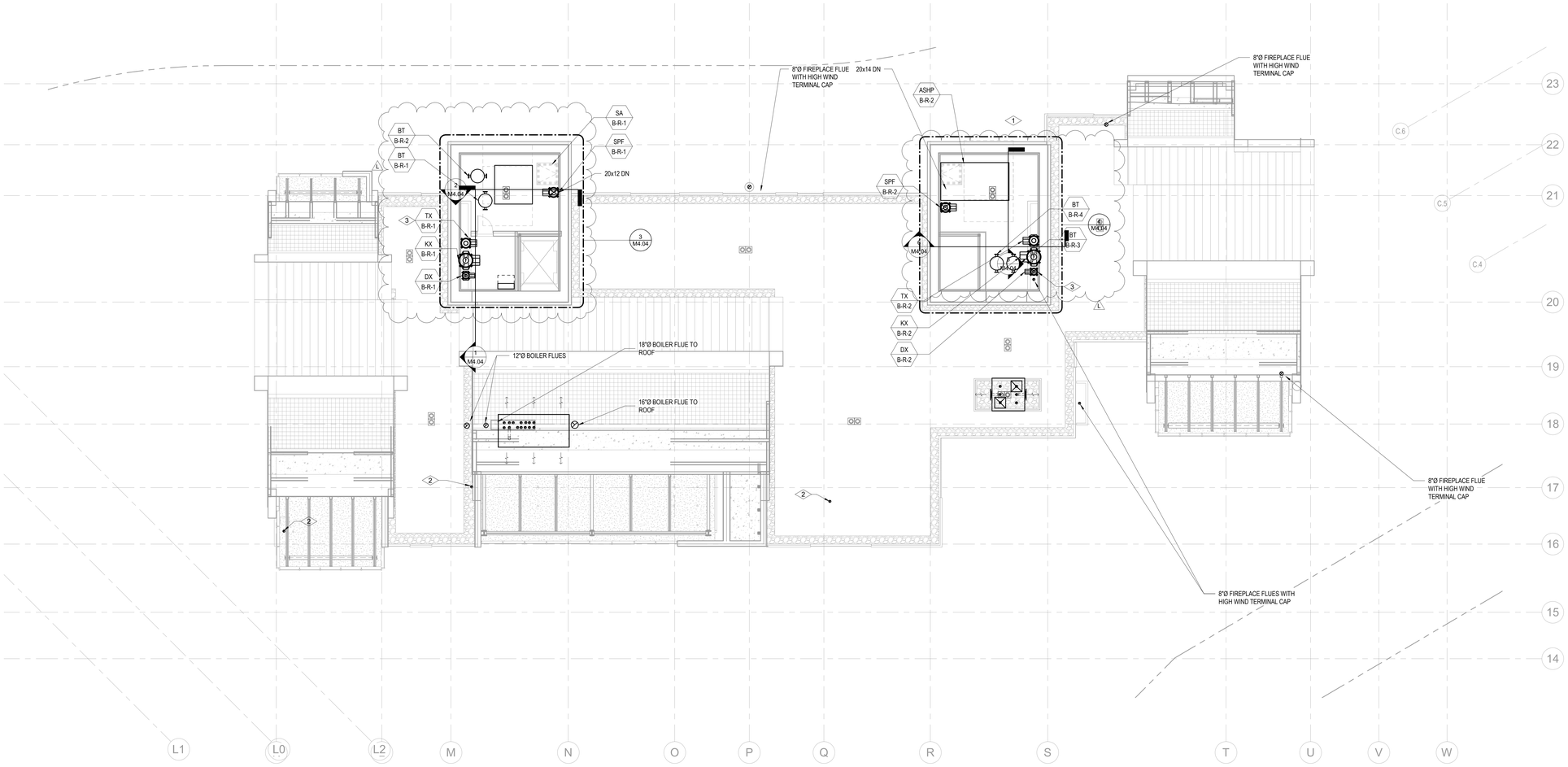


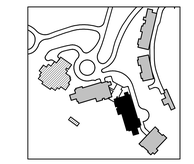
2 TOWER B FLUE TERMINATIONS NORTH - ORTHOGRAPHIC
SCALE:

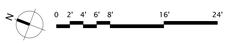


3 TOWER B FLUE TERMINATIONS SOUTH - ORTHOGRAPHIC
SCALE:



1 TOWER B - ROOF MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O:
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
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5/31/2024

TOWER B - ROOF MECHANICAL DUCT PLAN

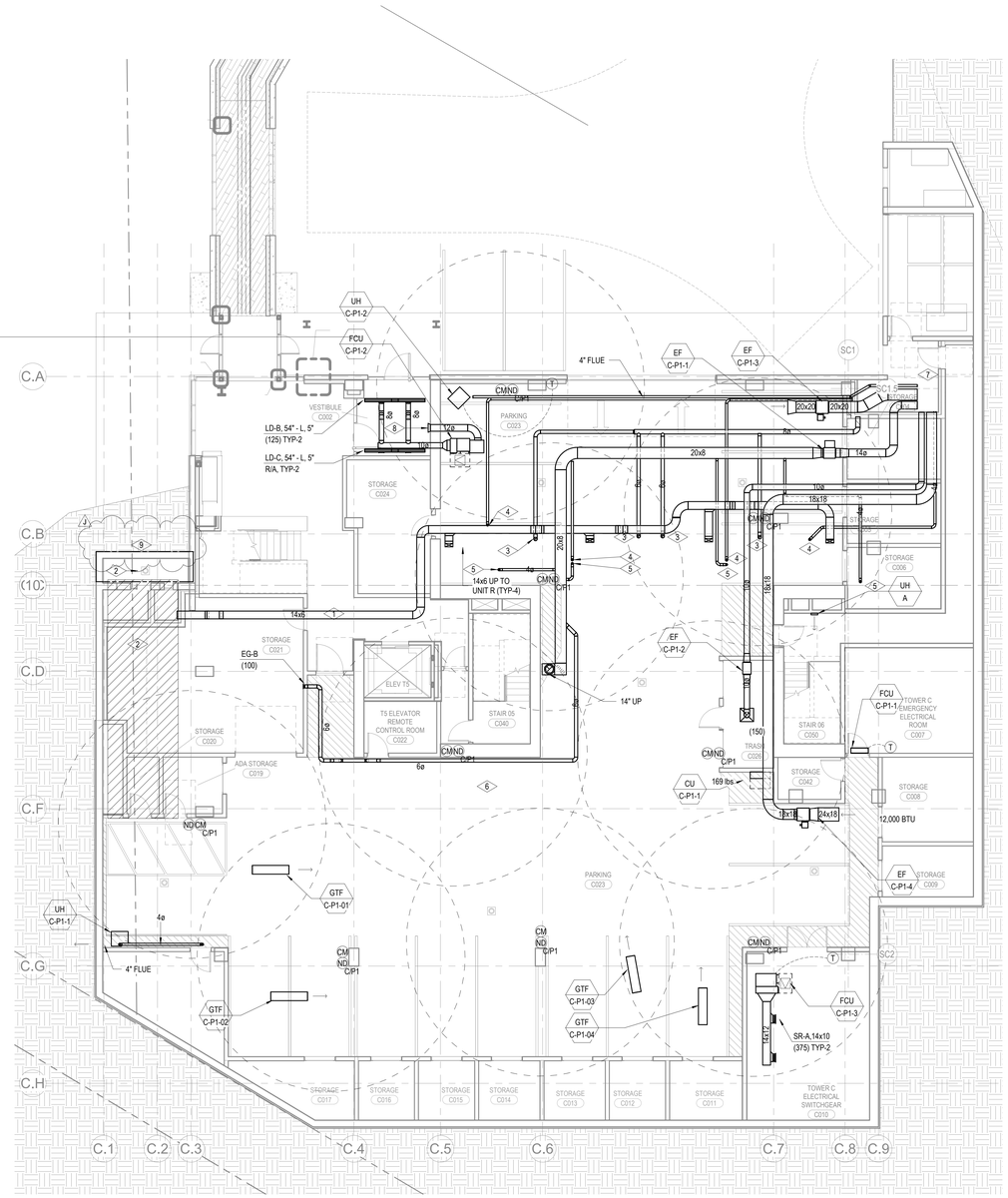
M2.2B.R

SHEET NOTES:

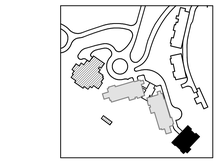
A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT AS SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. UNLESS OTHERWISE NOTED, MEDIUM PRESSURE DUCT RUNOUTS TO TERMINAL BOXES SHALL BE THE SAME SIZE AS TERMINAL BOX INLET. DUCT RUNOUTS TO TERMINAL BOXES SHALL BE 2" LARGER THAN INLET IF RUNOUT IS GREATER THAN 15".
E. ALL DUCT BRANCHES LEADING TO DIFFUSERS ARE TO MATCH NECK SIZE OF DIFFUSER UNLESS NOTED OTHERWISE.

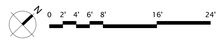
NUMBERED NOTES:

1 THIS SPACE TO MAINTAIN POSITIVE PRESSURE RELATIVE TO THE GARAGE.
2 SEE ARCHITECTURAL DRAWINGS FOR INTAKE WELL INFORMATION.
3 6" DUCT UP TO KITCHEN EXHAUST
4 4" DUCT UP TO DRYER EXHAUST
5 4" DUCT UP TO BATHROOM EXHAUST
6 ALL DUCTS AND EQUIPMENT LOCATED IN THE GARAGE SHALL BE INSTALLED TIGHT TO UNDERSIDE OF THE SLAB TO MAINTAIN 8'-6" CLEARANCES FOR VEHICLES.
7 PROTECT EXHAUST DUCT OPENING INTO WELL WITH WMS.
8 DISCHARGE AND/OR INTAKE - PROTECT OPENING WITH WMS.
9 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER C - PARKING LEVEL MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
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2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
date 05/31/2024

revisions:

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2	5/24/2024	IFC 3

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05/31/2024

TOWER C - LVL P1 MECHANICAL DUCT PLAN

M2.2C.01

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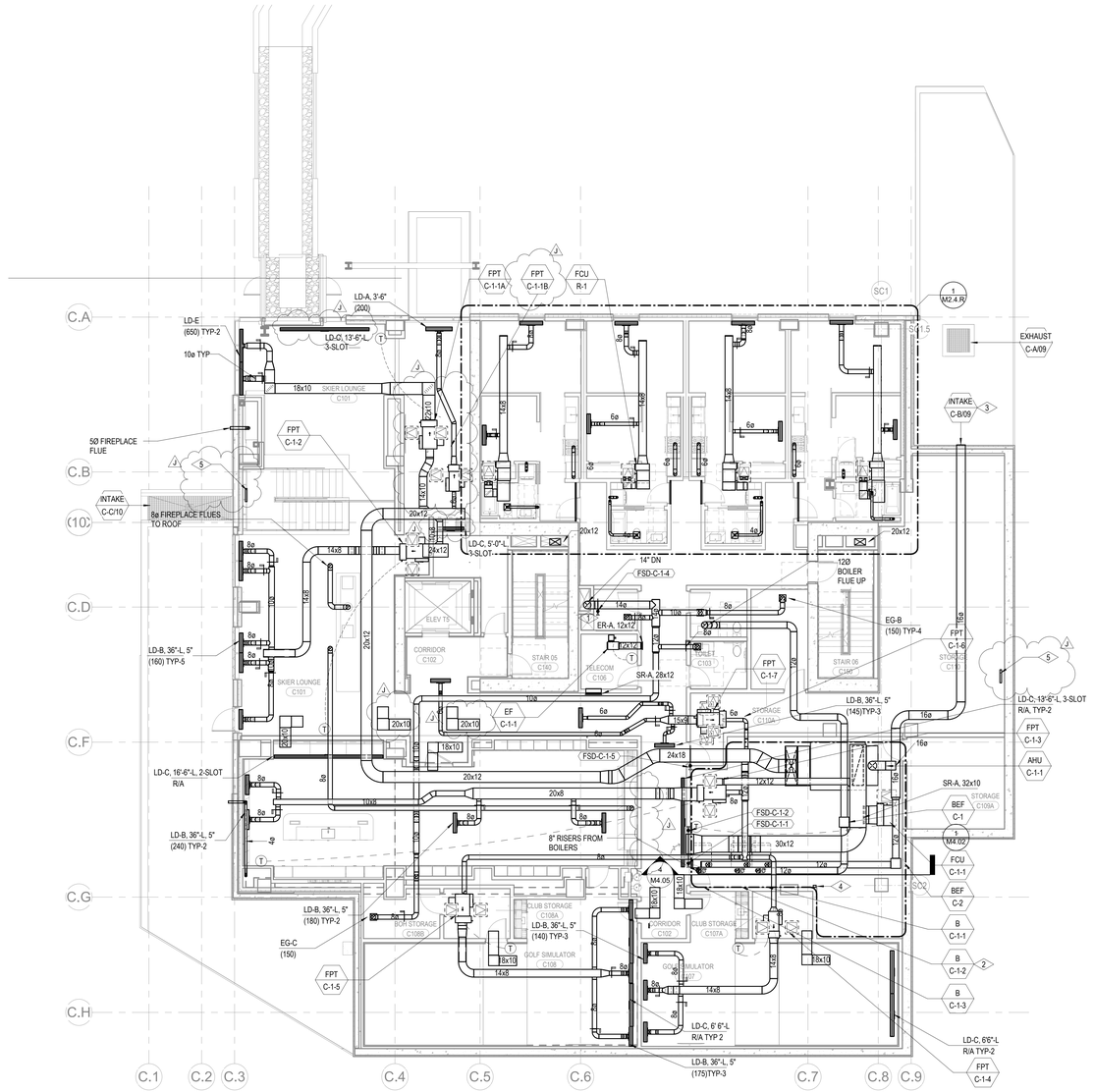
SHEET NOTES:

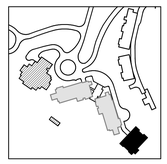
A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ARCHITECT SHALL PROVIDE 1-SQFT NFA OPENINGS IN ALL FULL HEIGHT, NON-RATED WALLS FOR RETURN AIR PATHS IF NO DUCT TRANSFER IS SHOWN.
E. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
F. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
G. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
H. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04

NUMBERED NOTES:

1 DUCT RISERS SHALL BE ROUTED IN RATED SHAFT
2 PROVIDE ENERVEX SMDS-8 MODULATING DAMPER OFF BOILER EXHAUST STACK WITH 120V/1PH ELECTRICAL POWER.
3 PROTECT INTAKE DUCT OPENING INTO LOUVER WITH MMS
4 PROVIDE MODULATING PRESSURE CONTROLLER WITH 120V/1PH ELECTRICAL POWER.
5 FUTURE SNOWMELT HEADER LOCATION. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER C - LEVEL 1 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206.624.5670 olsonkundig.com

project
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Park City, Utah 84060

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Seattle, WA 98109

MEP Engineer
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Seattle, WA 98154

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05/31/2024

TOWER C - LVL 1 MECHANICAL DUCT PLAN

M2.2C.11

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL ROPS AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

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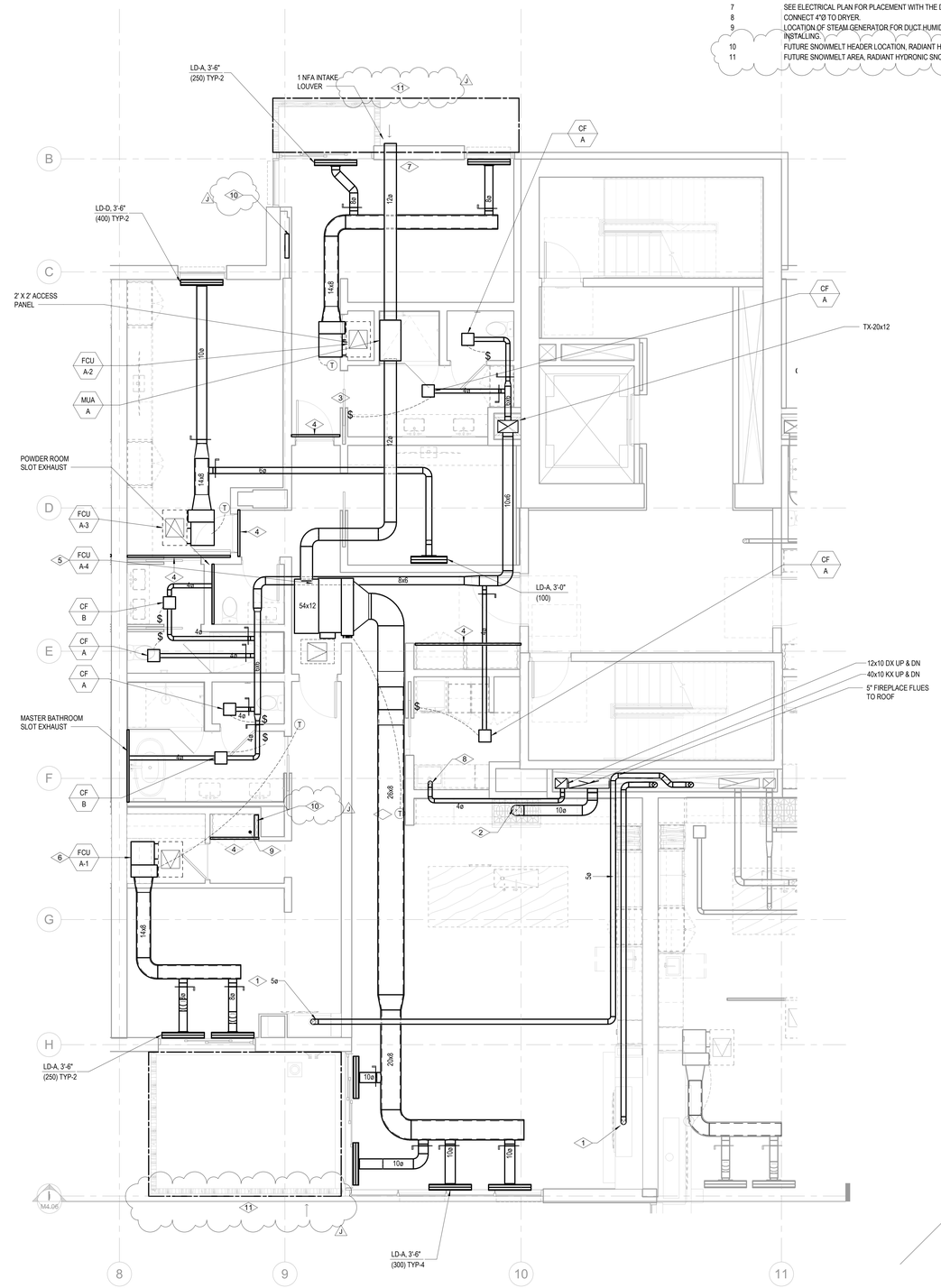
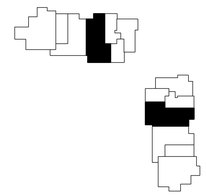
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
7 SEE ELECTRICAL PLAN FOR PLACEMENT WITH THE DECK LIGHT SWITCH.
8 CONNECT 4"Ø TO DRYER.
9 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
10 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
11 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B - MECHANICAL PLAN - UNIT A
SCALE: 1/4" = 1'-0"



0 1' 2' 3' 4' 8' 12'

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
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Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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date 5/31/2024

revisions:

J	01/10/2025	ASI 6
2	5/31/2024	IFC 3

no. date by

IFC Set 3 of 3
5/31/2024

ENLARGED MECHANICAL PLAN - UNIT A

M2.4.A

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRETY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
2 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
3 2" RETURN AIR SLOT
4 OWNER OPTION: PROVIDE 208/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

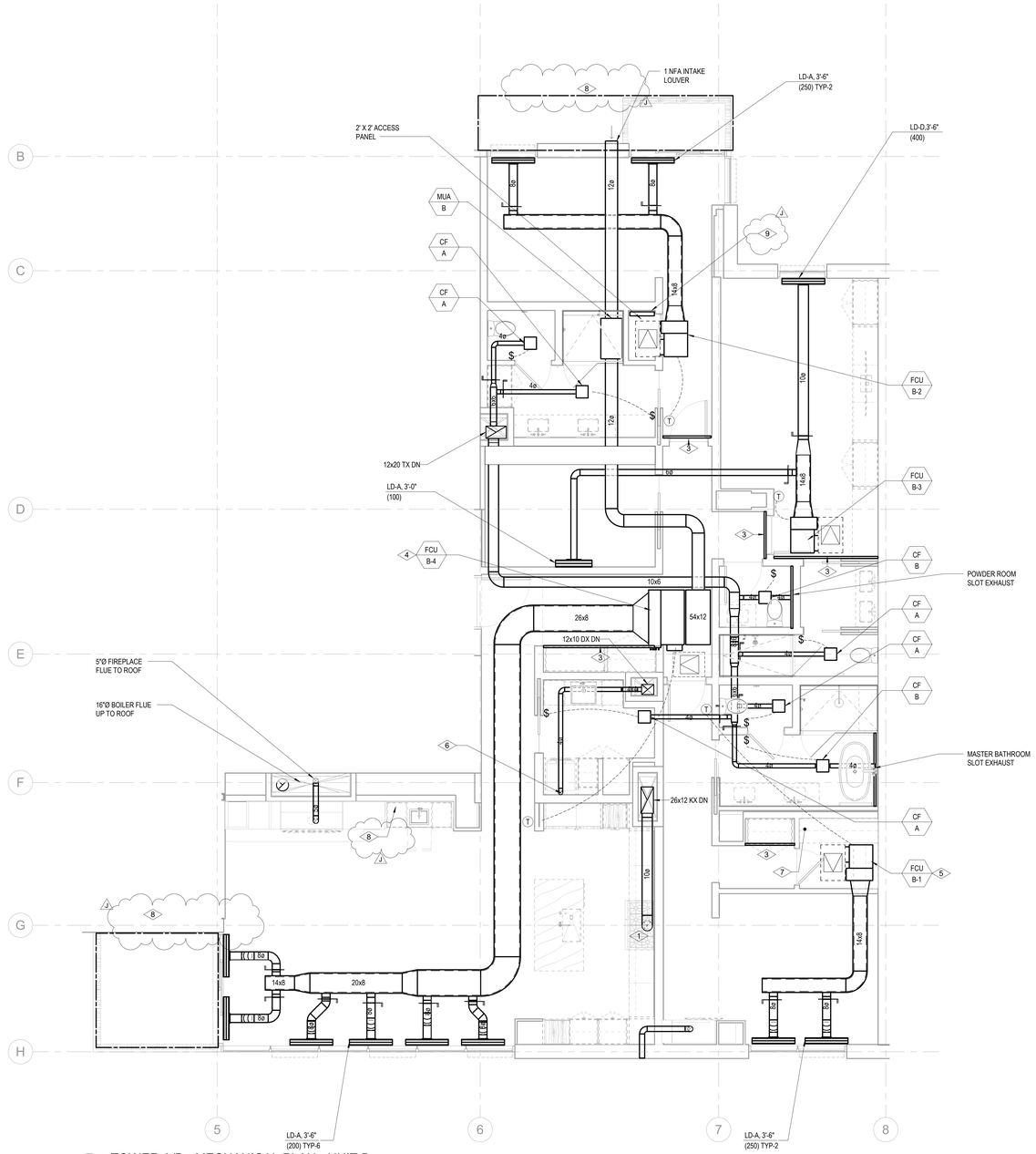
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

5 OWNER OPTION: PROVIDE 120/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

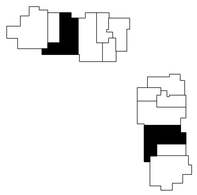
REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
6 CONNECT 4"Ø TO DRYER.
7 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
8 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
9 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B - MECHANICAL PLAN - UNIT B
SCALE: 1/4" = 1'-0"



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Olson Kundig
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Seattle, Washington 98104 USA
t 206.624.5670 olsonkundig.com

project
SOMMET BLANC
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Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
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Bothell, WA 98011

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Magnusson Klemencic Associates
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Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
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RDH
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Seattle, WA 98109

MEP Engineer
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1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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J	01/10/2025	ASI 6
2	5/31/2024	IFC 3

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5/31/2024

ENLARGED MECHANICAL PLAN - UNIT B

M2.4.B

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).

2 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.

3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.

4 OWNER OPTION: PROVIDE 208/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

5 OWNER OPTION: PROVIDE 120/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

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63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

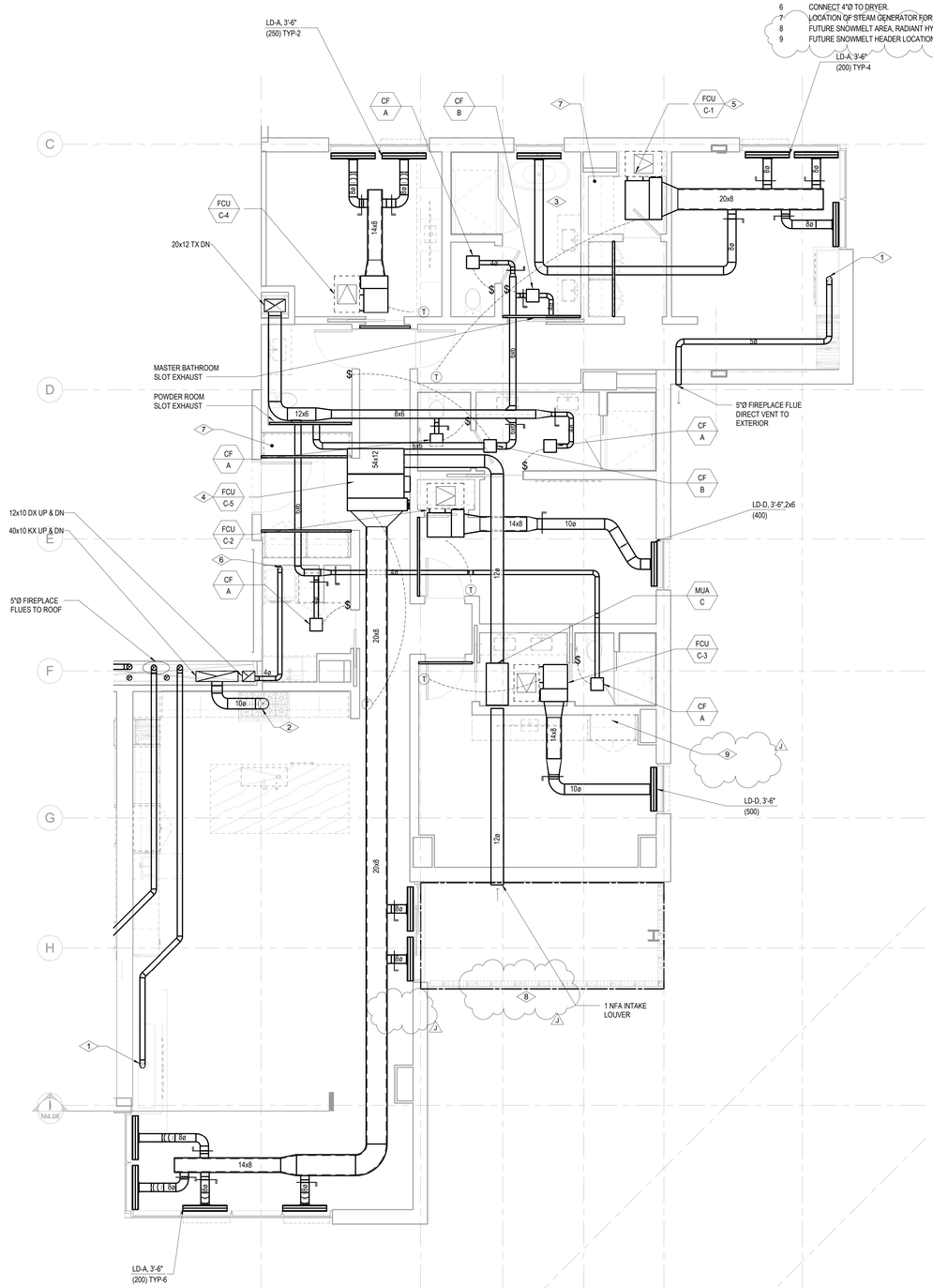
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 CONNECT 4"Ø TO DRYER.

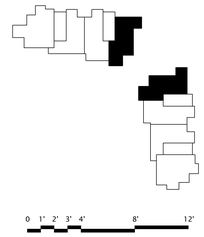
7 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.

8 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS

9 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B - MECHANICAL PLAN - UNIT C
SCALE: 1/4" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206.624.5670 olsonkundig.com

project
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Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
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Pool Consultant
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2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

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88 Mainelli Road
Middebury, VT

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Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnuson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
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checked by Checker
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date 5/31/2024

revisions:

no.	date	by
J	01/10/2025	ASI 6
2	5/31/2024	IFC 3

IFC Set 3 of 3
5/31/2024

ENLARGED MECHANICAL PLAN - UNIT C

M2.4.C

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

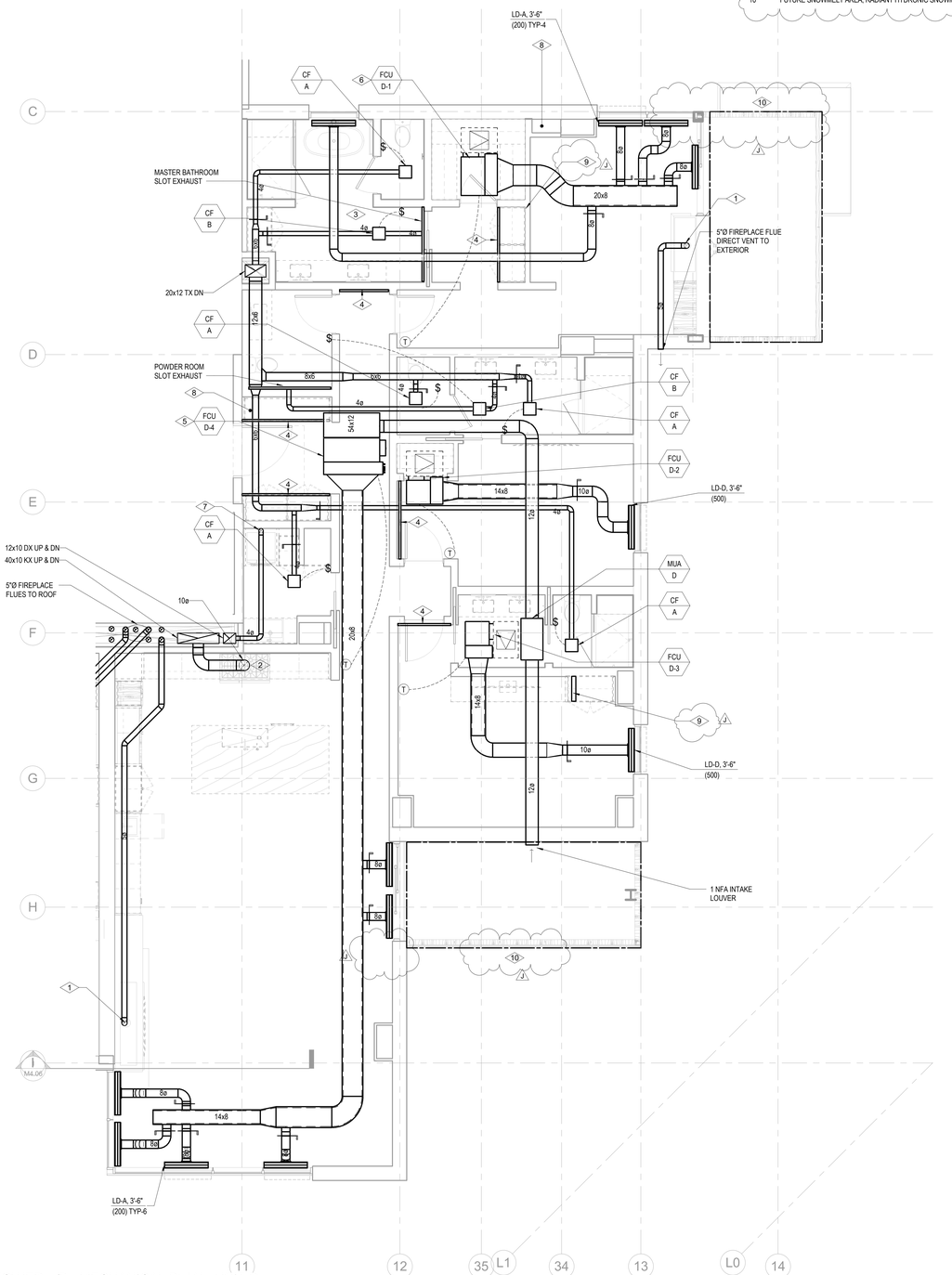
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

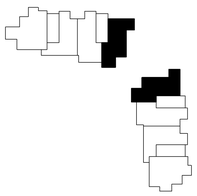
REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
7 CONNECT 4"Ø TO DRYER.
8 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
9 FUTURE SNOWMELT HEADER LOCATION. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
10 FUTURE SNOWMELT AREA. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B - MECHANICAL PLAN - UNIT D
SCALE: 1/4" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
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Specifications Writer
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88 Mainelli Road
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Fire Protection Engineer
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One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
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principal architect
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revisions:

J	01/10/2025	ASI 6
2	5/31/2024	IFC 3

no. date by

IFC Set 3 of 3
5/31/2024

ENLARGED MECHANICAL PLAN - UNIT D

M2.4.D

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1. 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2. RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3. ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4. 2" RETURN AIR SLOT
5. OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL, REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

   REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

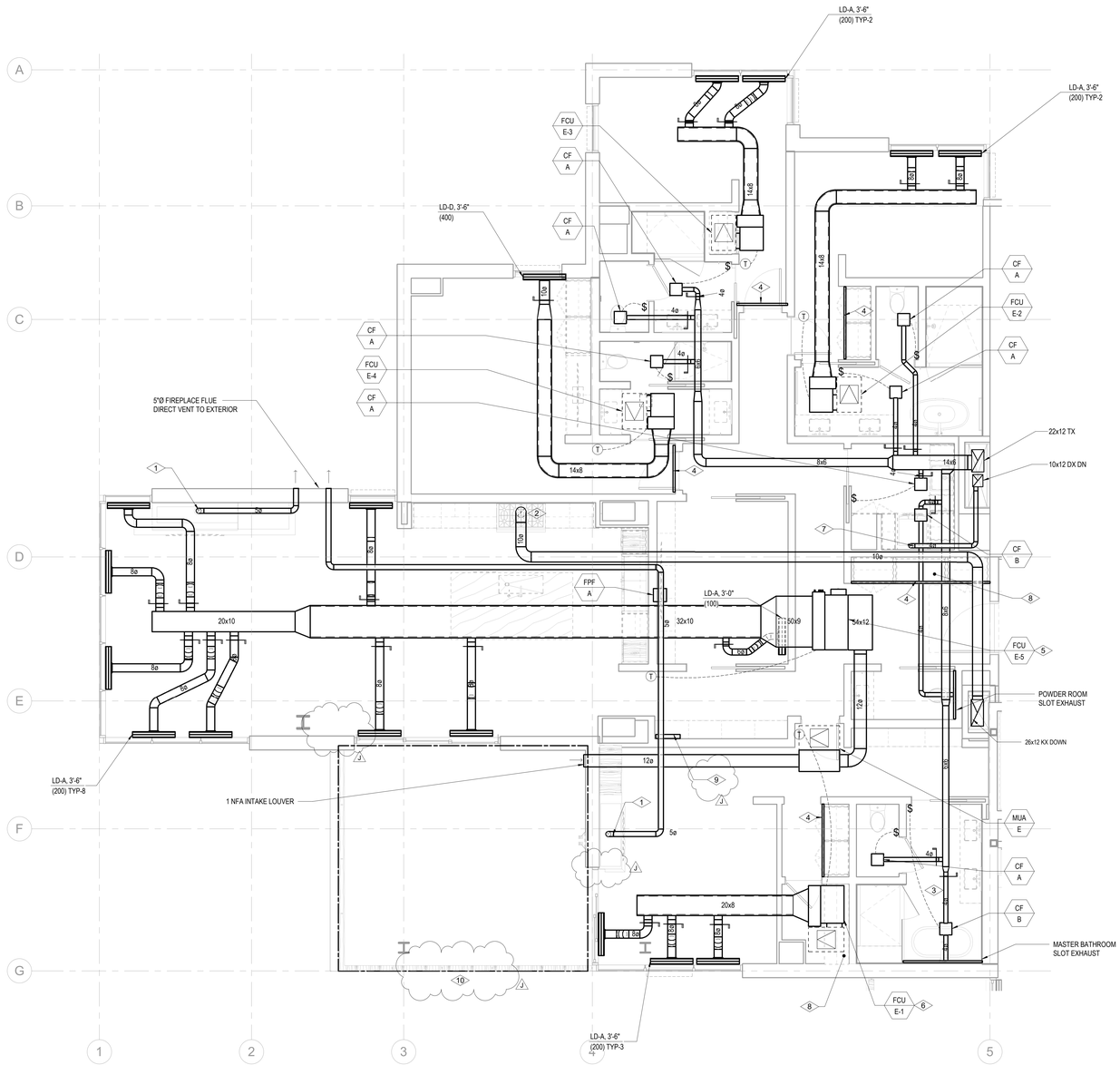
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

   CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
6. OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL, REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

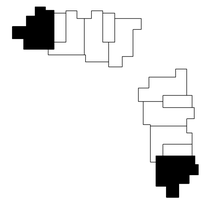
   REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

   CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
7. CONNECT 4"Ø TO DRYER.
8. LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
9. FUTURE SNOWMELT HEADER LOCATION. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
10. FUTURE SNOWMELT AREA. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B - MECHANICAL PLAN - UNIT E
SCALE: 1/4" = 1'-0"



0 1' 2' 3' 4' 8' 12'

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Olson Kundig
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ENLARGED MECHANICAL PLAN - UNIT E

M2.4.E

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
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E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

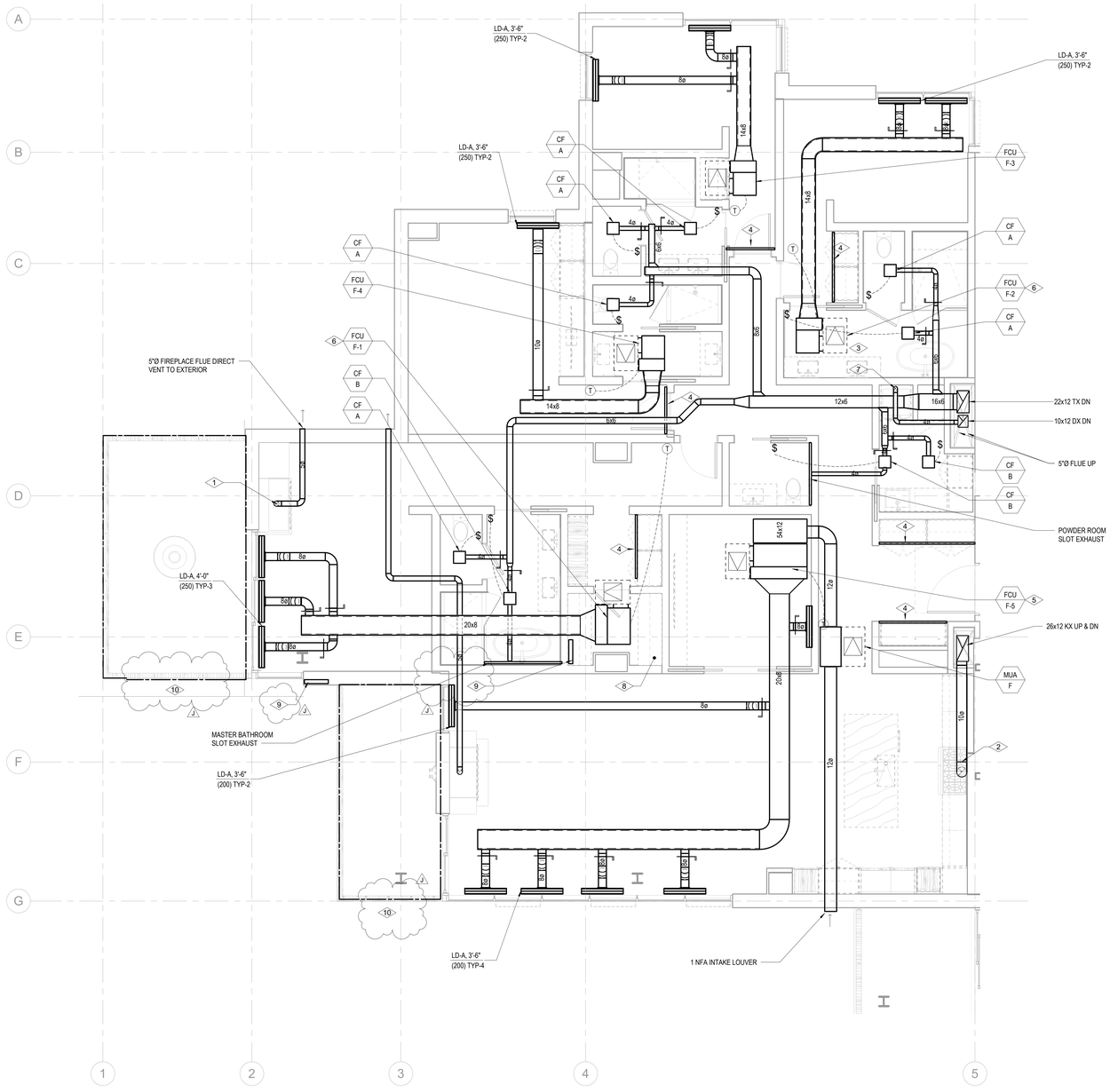
6 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

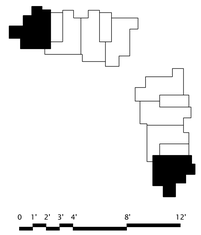
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

7 CONNECT 4"Ø TO DRYER.
8 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
9 FUTURE SNOWMELT HEADER LOCATION. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
10 FUTURE SNOWMELT AREA. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B - MECHANICAL PLAN - UNIT F
SCALE: 1/4" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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date 5/31/2024

revisions:

no.	date	by
J	01/10/2025	ASI 6
2	5/31/2024	IFC 3

IFC Set 3 of 3
5/31/2024

ENLARGED MECHANICAL PLAN - UNIT F

M2.4.F

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
3 2" RETURN AIR SLOT
4 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

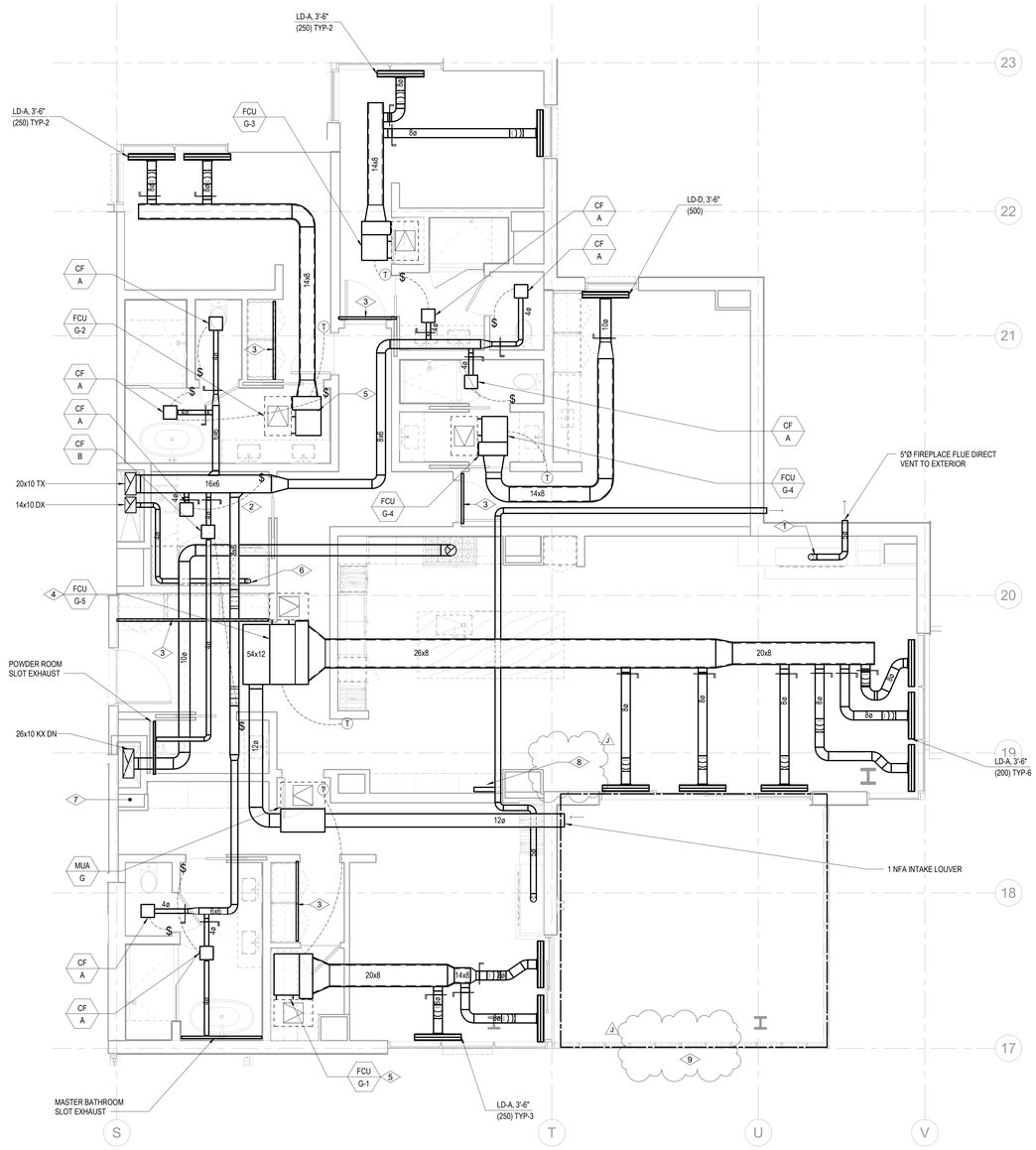
5 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

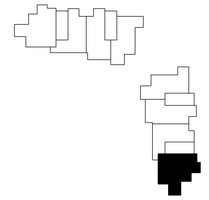
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 CONNECT 4"Ø TO DRYER.
7 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
8 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
9 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B - MECHANICAL PLAN - UNIT G
SCALE: 1/4" = 1'-0"



0 2" 4" 6" 8" 1' 2'

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Marrelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnuson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
date 5/31/2024

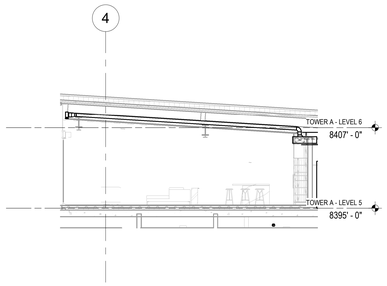
revisions:

no.	date	by
J	01/10/2025	ASI 6
2	5/31/2024	IFC 3

IFC Set 3 of 3
5/31/2024

ENLARGED MECHANICALPLAN - UNIT G

M2.4.G



2 HVAC SECTION - PENTHOUSE H

SCALE: 1/8" = 1'-0"

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

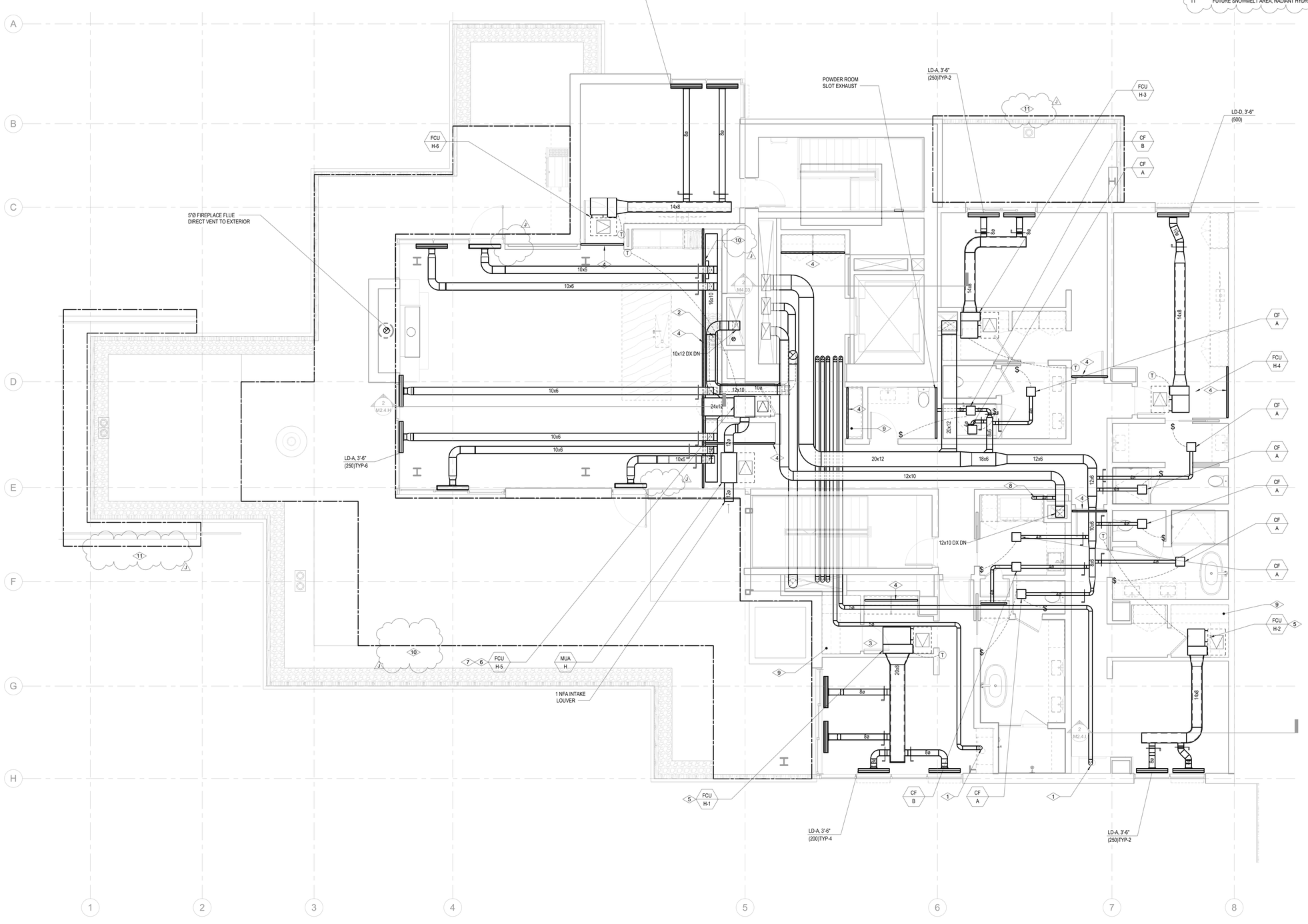
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

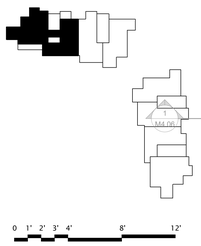
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
7 FLAT DIFFUSERS TO FIT BENEATH LOWERED SLAB
8 CONNECT 4"Ø TO DRYER.
9 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
10 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
11 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B -MECHANICAL PLAN - UNIT H

SCALE: 1/4" = 1'-0"



0 1" 2" 3" 4" 8" 12"

Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
date 5/31/2024

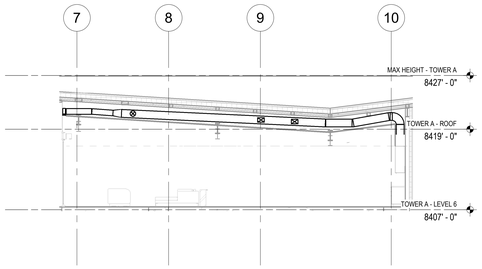
revisions:

no.	date	by
J	01/10/2025	ASI 6
2	5/31/2024	IFC 3

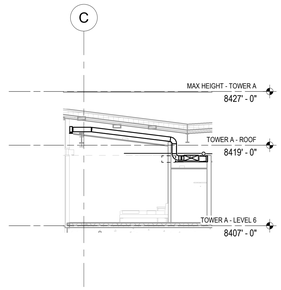
IFC Set 3 of 3
5/31/2024

ENLARGED MECHANICAL PLAN - UNIT H

M2.4.H



2 HVAC SECTION - PENTHOUSE I - 1
SCALE: 1/8" = 1'-0"



3 HVAC SECTION - PENTHOUSE I - 2
SCALE: 1/8" = 1'-0"

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

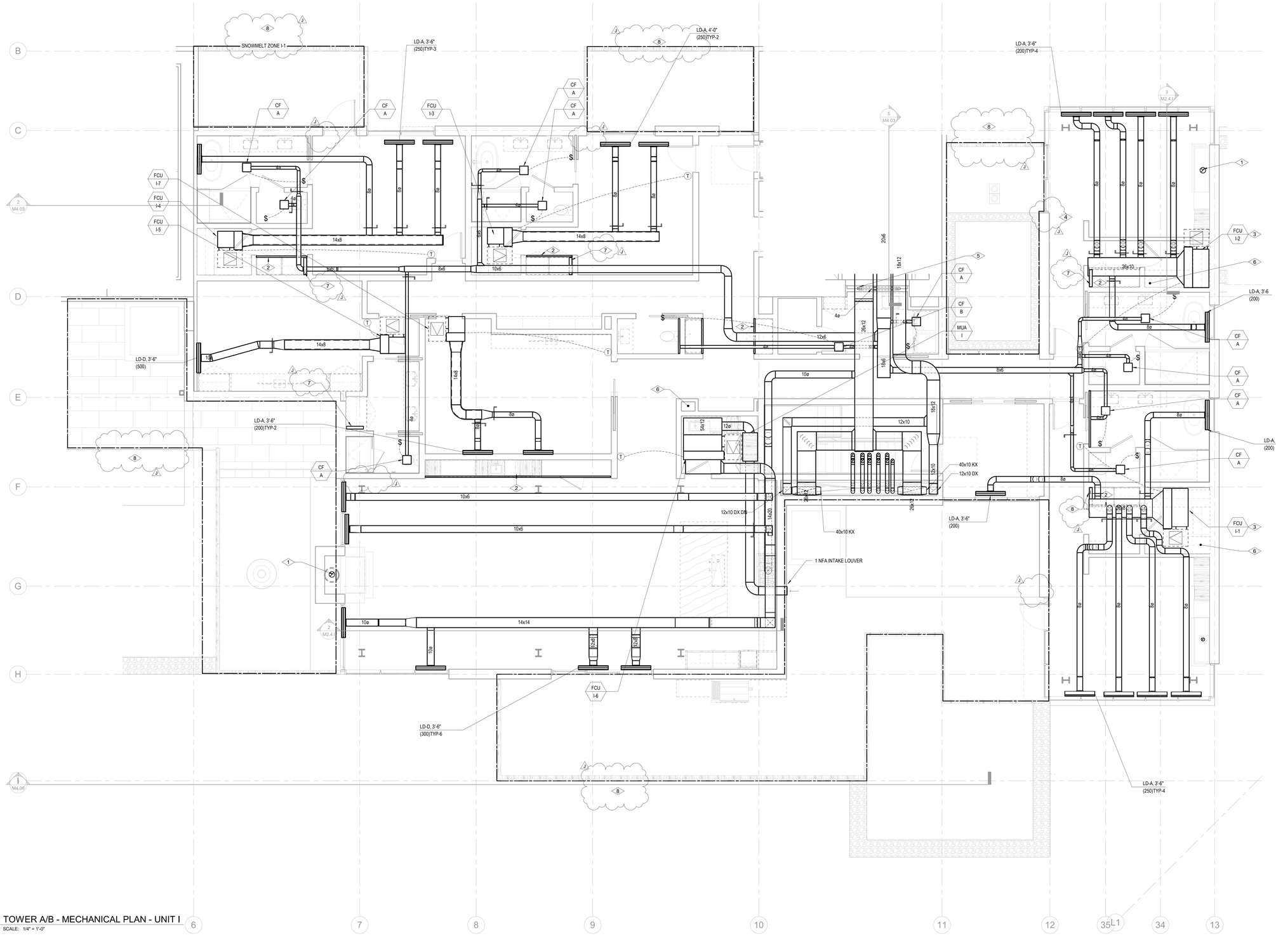
NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 2" RETURN AIR SLOT
3 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
4 SEE ELECTRICAL PLAN FOR PLACEMENT WITH THE DECK LIGHT SWITCH.
5 CONNECT 4"Ø TO DRYER.
6 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
7 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
8 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B - MECHANICAL PLAN - UNIT I
SCALE: 1/4" = 1'-0"

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

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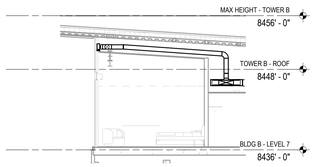
ENLARGED MECHANICAL PLAN - UNIT I

M2.4.I



2 HVAC SECTION - PENTHOUSE J

SCALE: 1/8" = 1'-0"

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
2 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL, REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

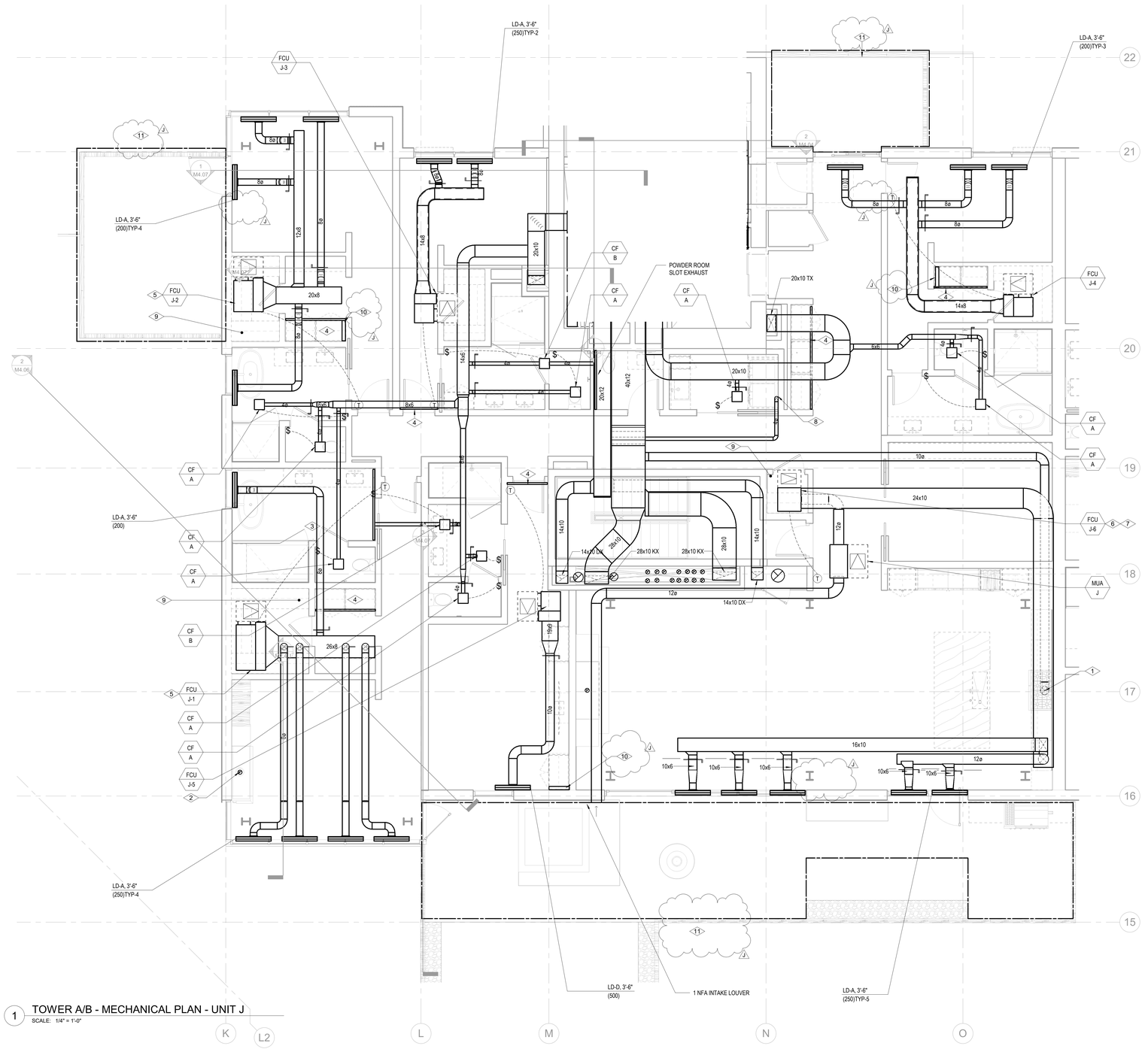
6 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL, REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

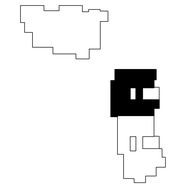
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

7 VERTICAL FAN COIL UNIT
8 CONNECT 4"Ø TO DRYER.
9 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
10 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
11 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B - MECHANICAL PLAN - UNIT J

SCALE: 1/4" = 1'-0"



0 1" 2" 3" 4" 8" 12"

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O:
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
date 5/31/2024

revisions:

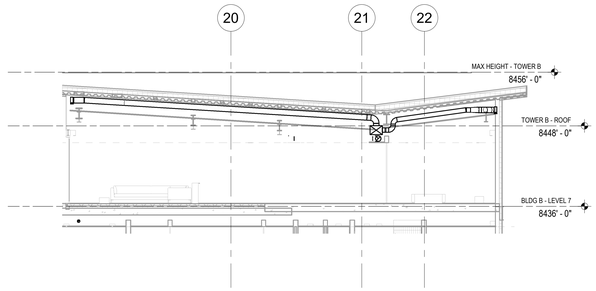
J	01/10/2025	ASI 6
2	5/31/2024	IFC 3

no. date by

IFC Set 3 of 3
5/31/2024

ENLARGED MECHANICAL PLAN - UNIT J

M2.4.J



2 HVAC SECTION - PENTHOUSE K
SCALE: 1/8" = 1'-0"

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
3 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

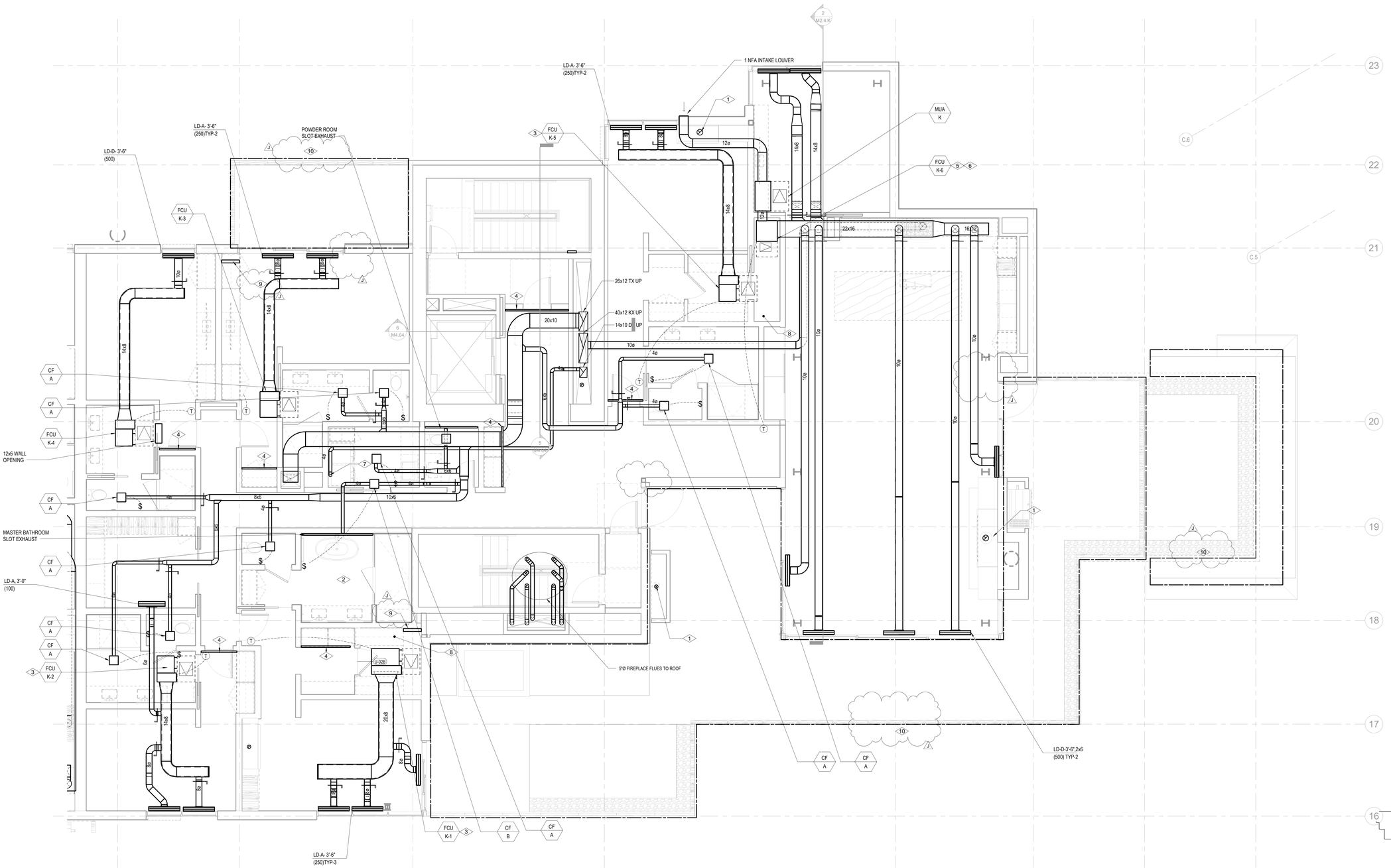
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

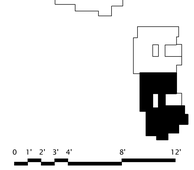
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 VERTICAL FAN COIL UNIT
7 CONNECT 4"Ø TO DRYER.
8 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
9 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
10 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A/B - MECHANICAL PLAN - UNIT K
SCALE: 1/4" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Oi
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
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J	01/10/2025	ASI 6
2	5/31/2024	IFC 3

IFC Set 3 of 3
5/31/2024

ENLARGED MECHANICAL PLAN - UNIT K

M2.4.K

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCPS AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.

2 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.

3 2" RETURN AIR SLOT

4 1" RETURN AIR SLOT

5 OWNER OPTION: PROVIDE 208/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 OWNER OPTION: PROVIDE 120/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

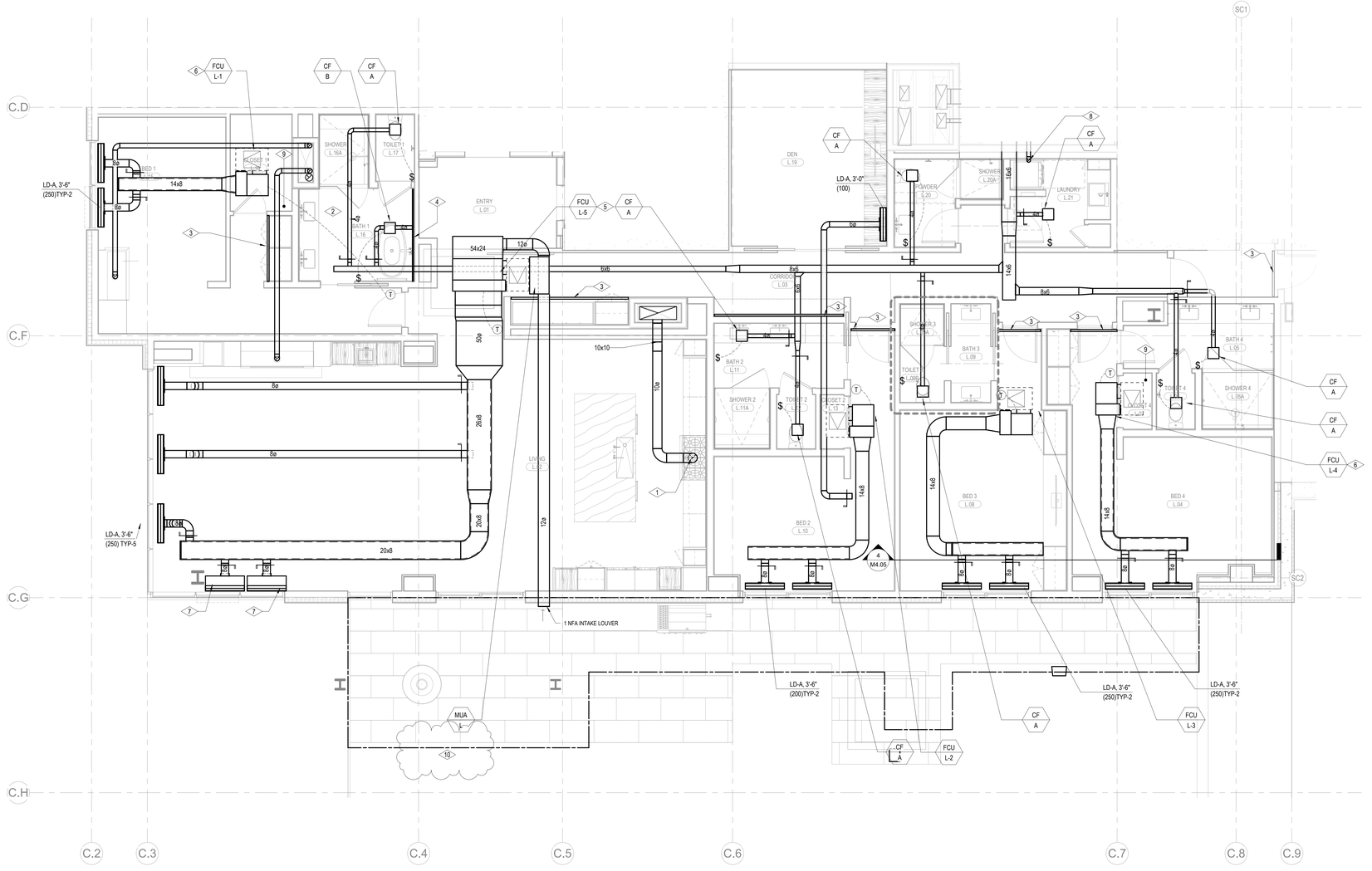
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

7 FLAT DIFFUSERS TO FIT BENEATH LOWERED SLAB

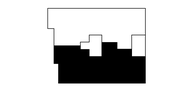
8 CONNECT 4"Ø TO DRYER.

9 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT

10 FUTURE SNOWMELT AREA. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 BLDG C - MECHANICAL UNIT PLAN - L
SCALE: 1/4" = 1'-0"



Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consultant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Oi
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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principal architect
project manager
drawn by
checked by Checker
job no.
date 05/31/2024

revisions:

no.	date	by
J	1/10/2024	ASI 6
2	5/24/2024	IFC 3

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05/31/2024

ENLARGED MECHANICAL PLAN - UNIT L

M2.4.L

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCPS AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST TAILPIECE.

NUMBERED NOTES:

1. 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2. RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3. 2" RETURN AIR SLOT
4. 1" RETURN AIR SLOT
5. ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
6. OWNER OPTION: PROVIDE 208/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

   REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

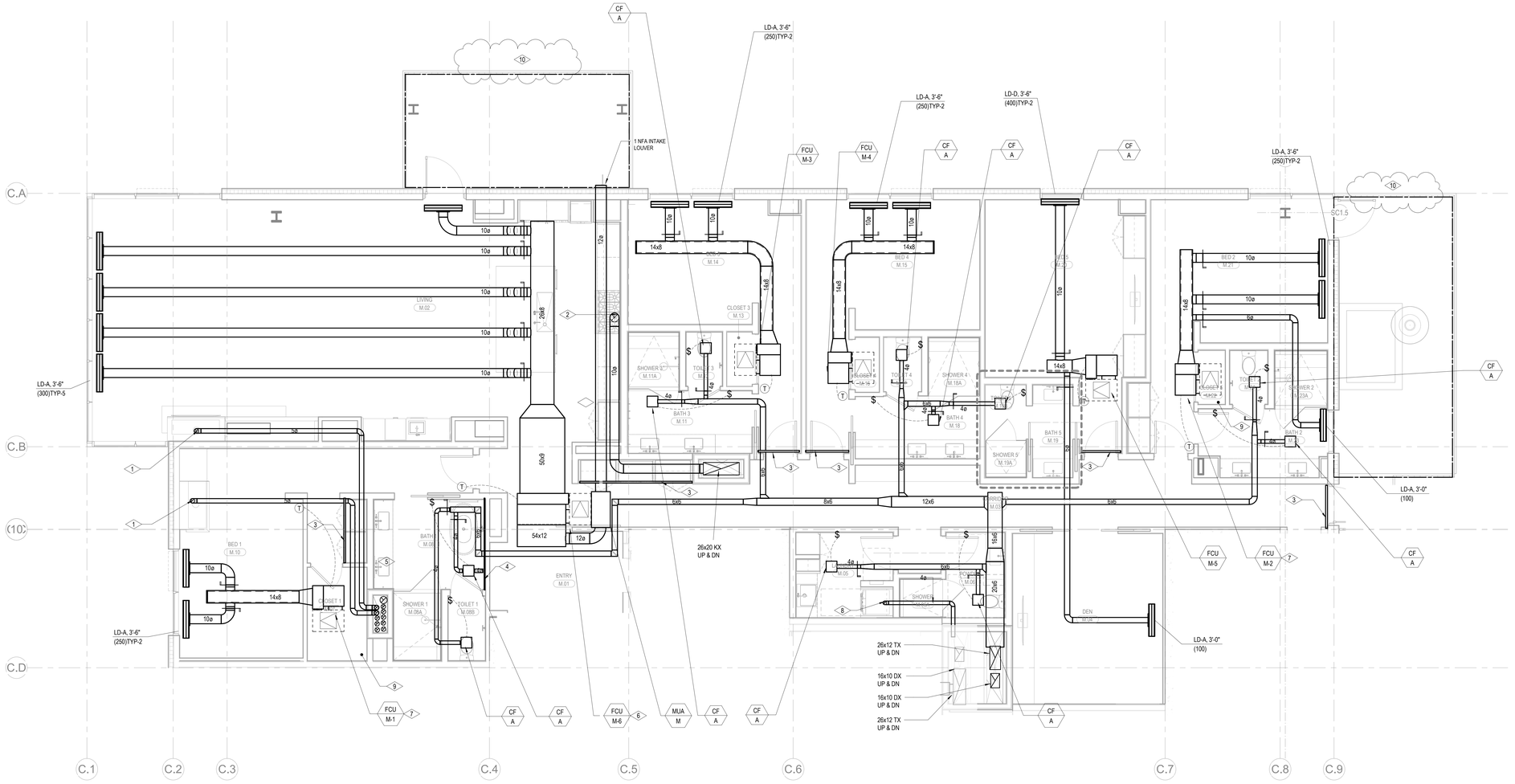
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

   CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
7. OWNER OPTION: PROVIDE 120/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

   REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

   CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
8. CONNECT 4"Ø TO DRYER.
9. LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT.
10. FUTURE SNOWMELT AREA. RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 BLDG C - MECHANICAL UNIT PLAN - M
SCALE: 1/4" = 1'-0"

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

Reserved for permit stamp

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
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Provo, UT 84604

Landscape Architect
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Fire Protection Engineer
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One Research Drive, Suite 305C
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Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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revisions:

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J	1/10/2024	ASI 6
2	5/24/2024	IFC 3

IFC Set 3 of 3
05/31/2024

ENLARGED MECHANICAL PLAN - UNIT M

M2.4.M

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCPS AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
2 2" RETURN AIR SLOT
3 1" RETURN AIR SLOT
4 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

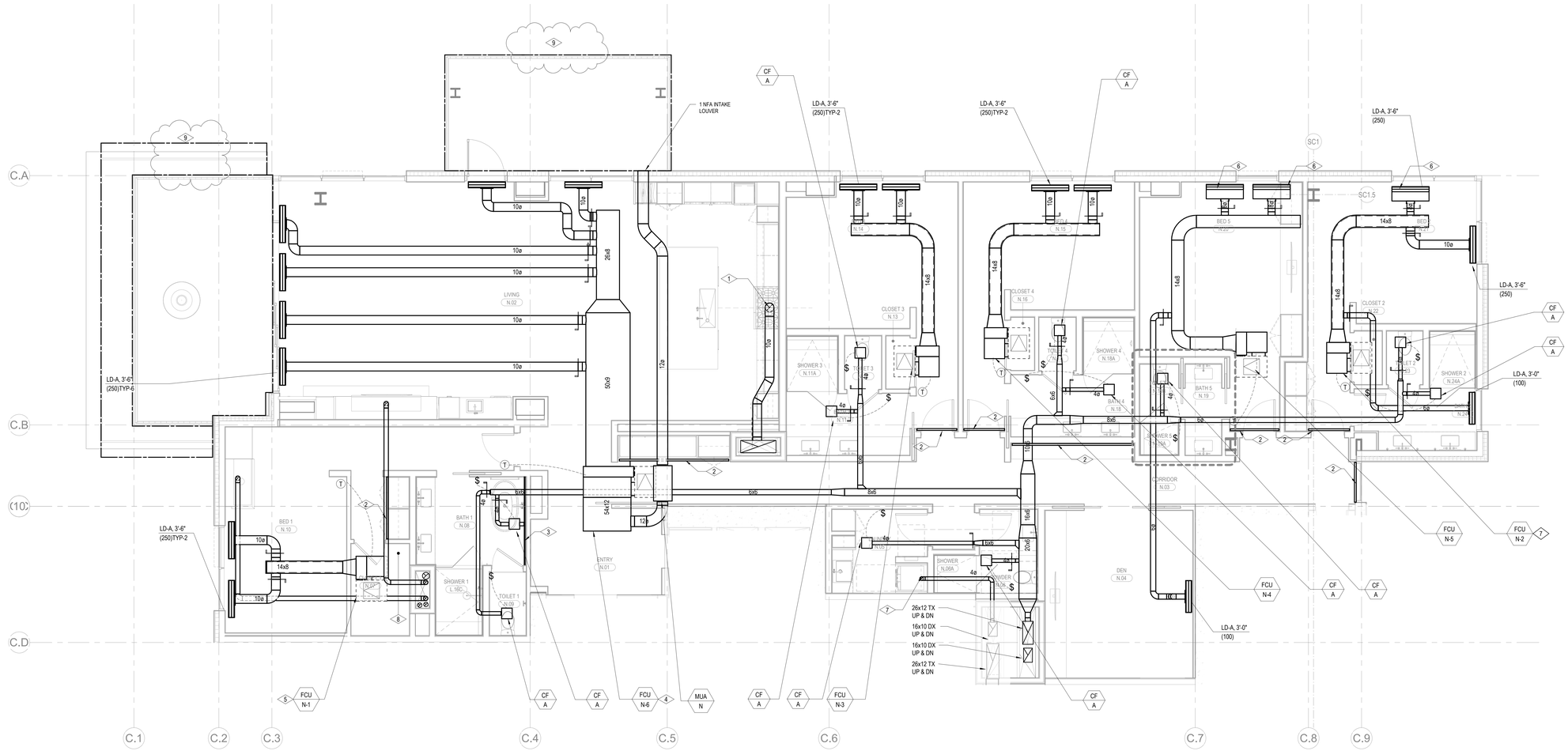
63 Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000
0 | 4 | 6 | 8 | 7 | 9 | 6 | 0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PURCHASING HUMIDIFIER.
5 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63 Hz | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000
0 | 4 | 6 | 8 | 7 | 9 | 6 | 0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PURCHASING HUMIDIFIER.
6 FLAT DIFFUSERS TO FIT BENEATH LOWERED SLAB
7 CONNECT 4"Ø TO DRYER.
8 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT
9 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 BLDG C - MECHANICAL UNIT PLAN - N
SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12'

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
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Park City, Utah 84098

Pool Consultant
Cloward H20
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Provo, UT 84604

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Midvale, Utah 84047

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88 Mainelli Road
Middlebury, VT

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Holmes
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Seattle, WA 98104

Fire Protection Engineer
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One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
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Structural Engineer
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Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
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2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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revisions:

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J	1/10/2024	ASI 6
2	5/24/2024	IFC 3

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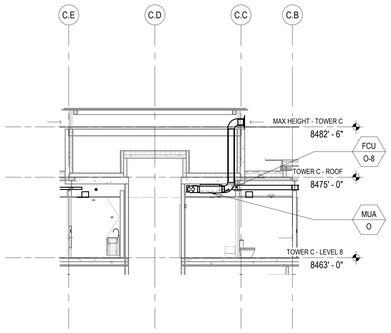
ENLARGED MECHANICAL PLAN - UNIT N

M2.4.N



2 UNIT O ROOFTOP DUCTWORK
SCALE: 1/8" = 1'-0"

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST TAILPIECE.

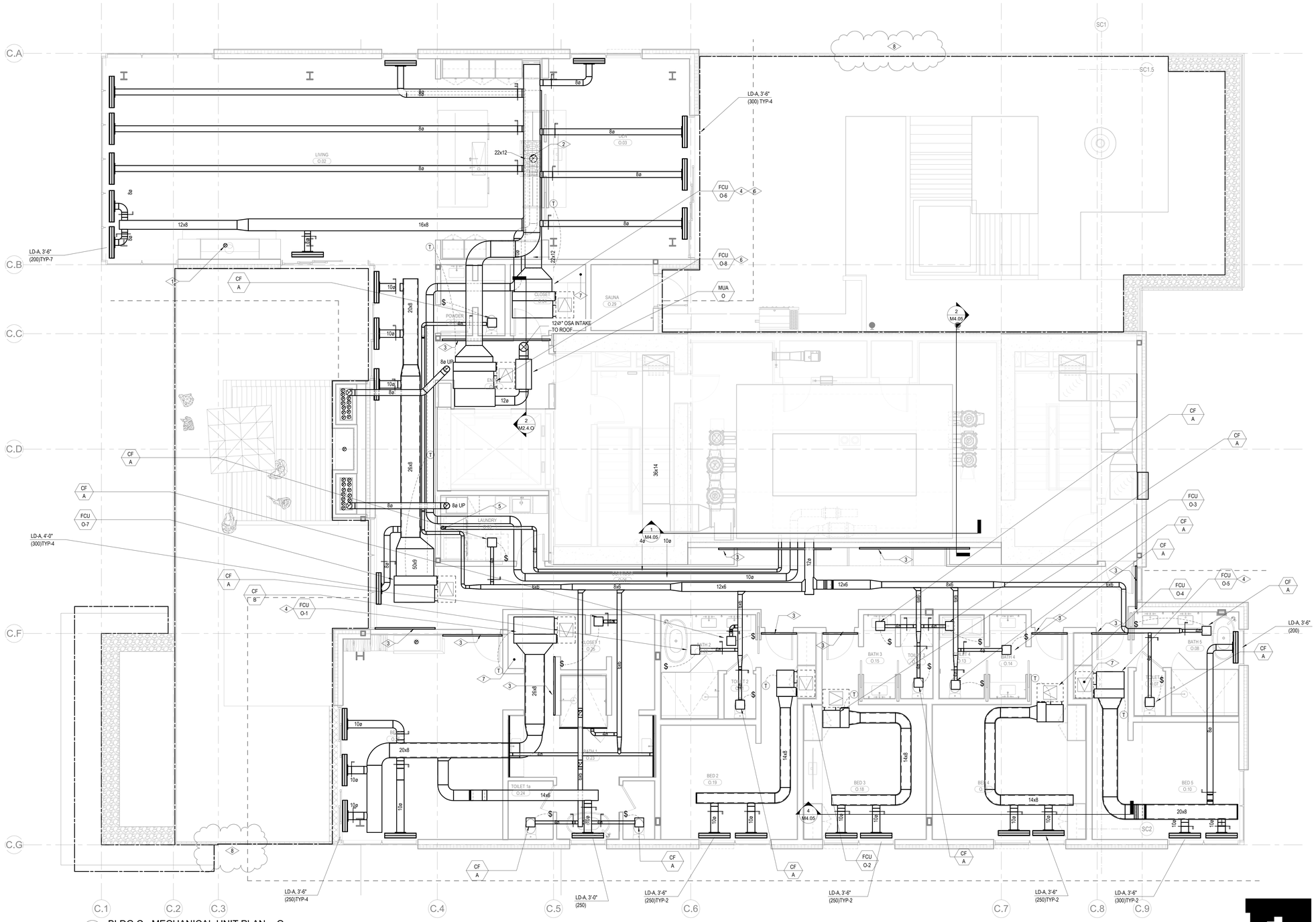
NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3 2" RETURN AIR SLOT
4 OWNER OPTION: PROVIDE 208/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	5	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
5 CONNECT 4"Ø TO DRYER. PROVIDE FANTECH DBF110 BOOSTER FAN. SEE ELECTRICAL DRAWINGS FOR 120/1 CONNECTION.
6 NOT USED/SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
7 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT
8 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 BLDG C - MECHANICAL UNIT PLAN - O
SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12'

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Larch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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principal architect
project manager
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D	08/23/2024	ASI 003
1	5/17/2024	IFC 2

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05/31/2024

ENLARGED MECHANICAL PLAN - UNIT O

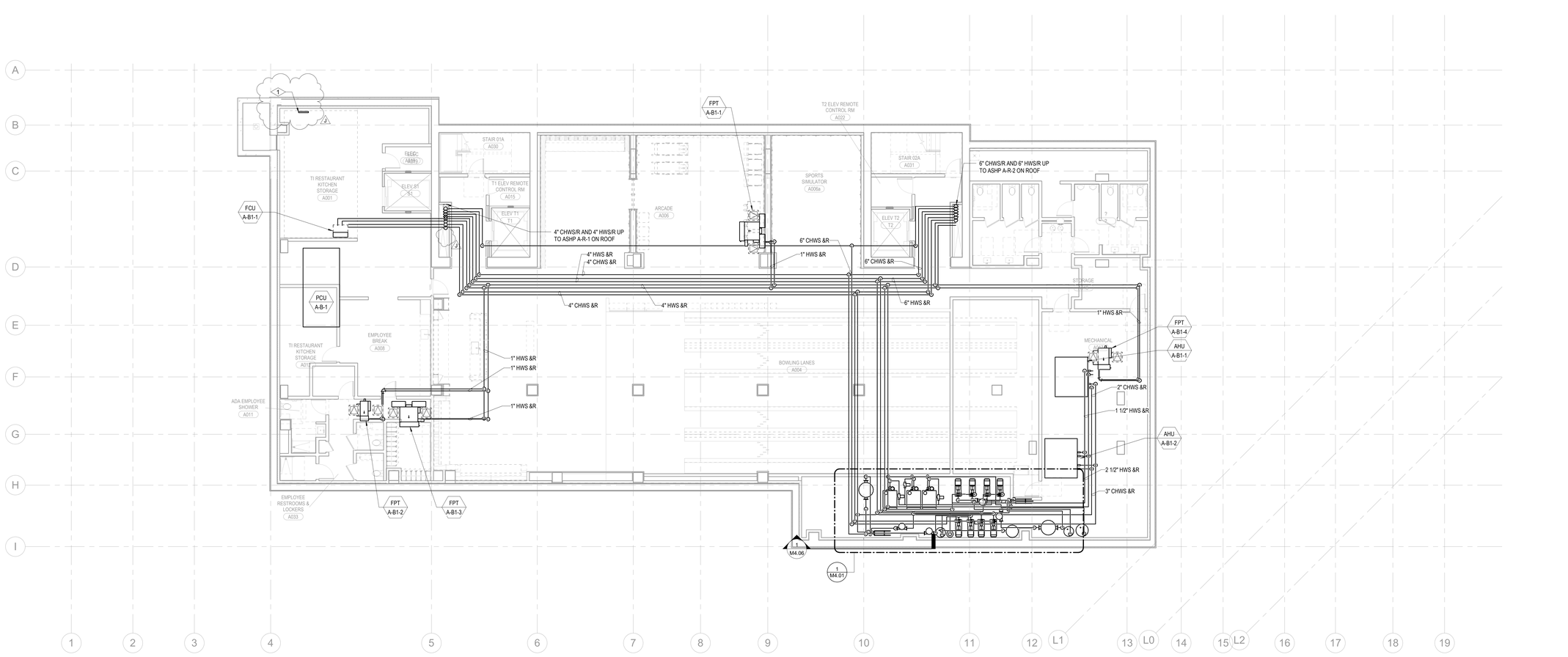
M2.4.O

SHEET NOTES:

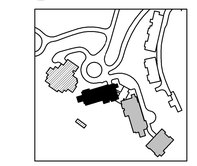
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

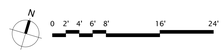
NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A - LEVEL B MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnuson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O.
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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project manager
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5/31/2024

TOWER A - LVL B MECHANICAL PIPING PLAN

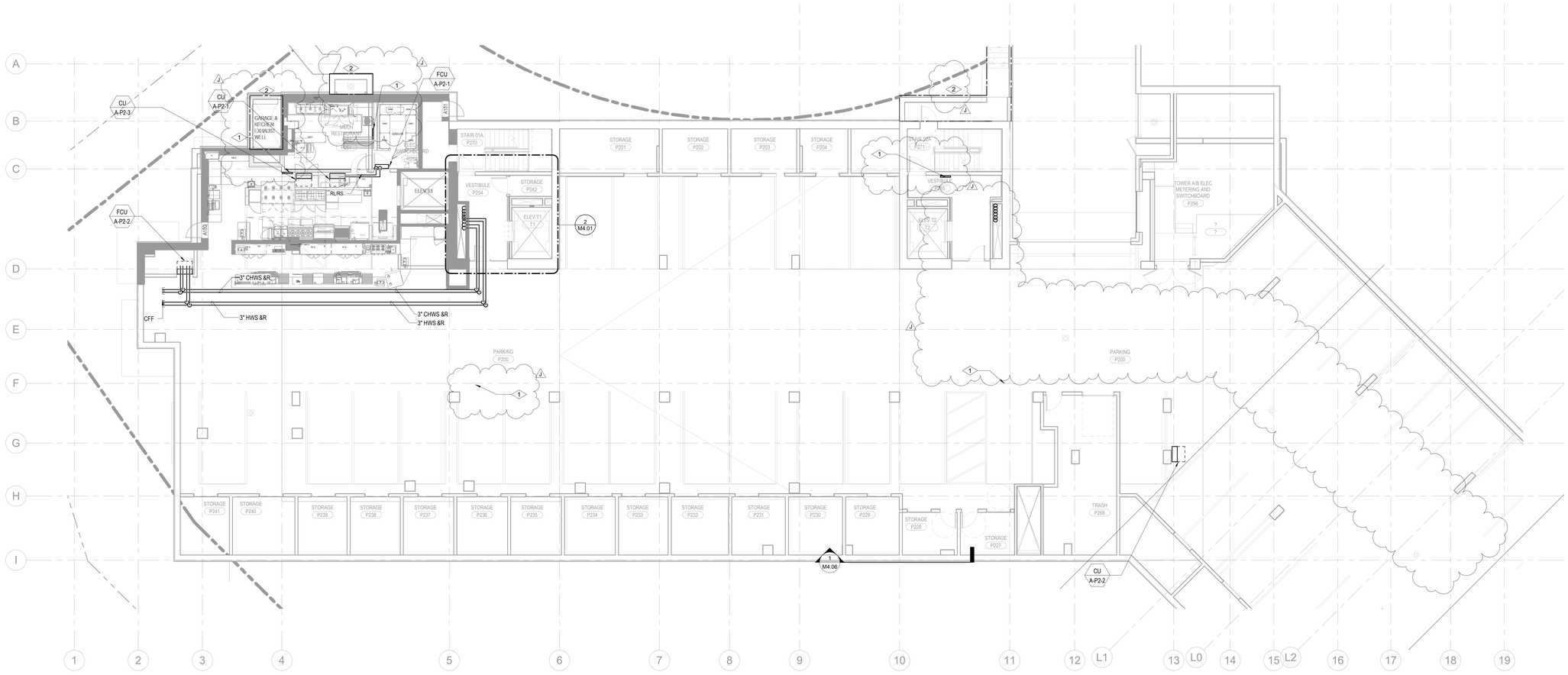
M3.2A.01

SHEET NOTES:

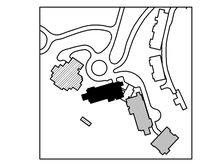
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE TO NEAREST SINK TAILPIECE PER DETAIL M5.06/6.

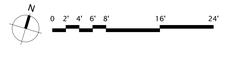
NUMBERED NOTES:

#	
1	FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
2	FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A - PARKING LEVEL 2 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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project manager
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TOWER A - LVL P2 MECHANICAL PIPING PLAN

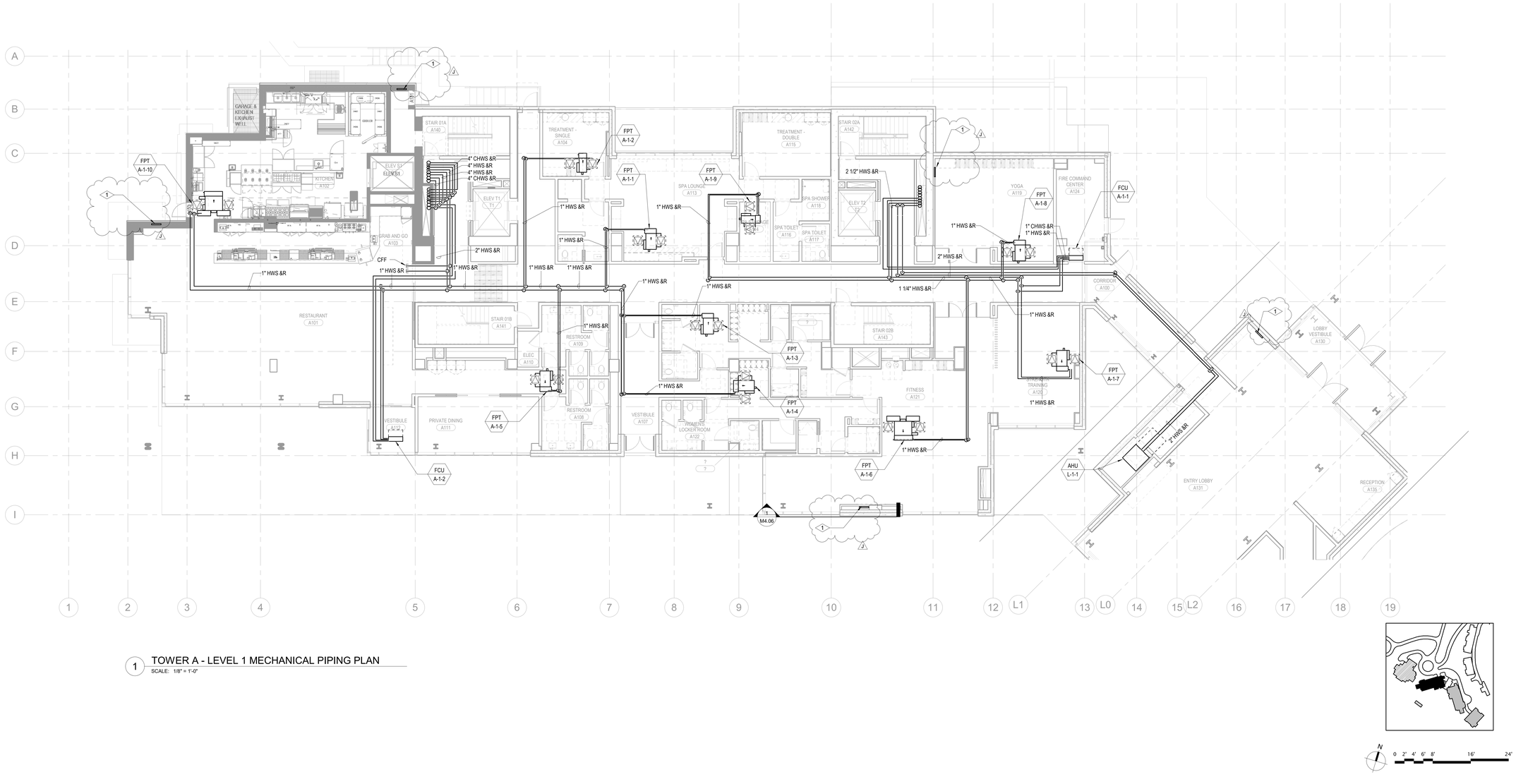
M3.2A.02

SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FPT TO NEAREST SINK. TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A - LEVEL 1 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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5/31/2024

TOWER A - LVL 1 MECHANICAL PIPING PLAN

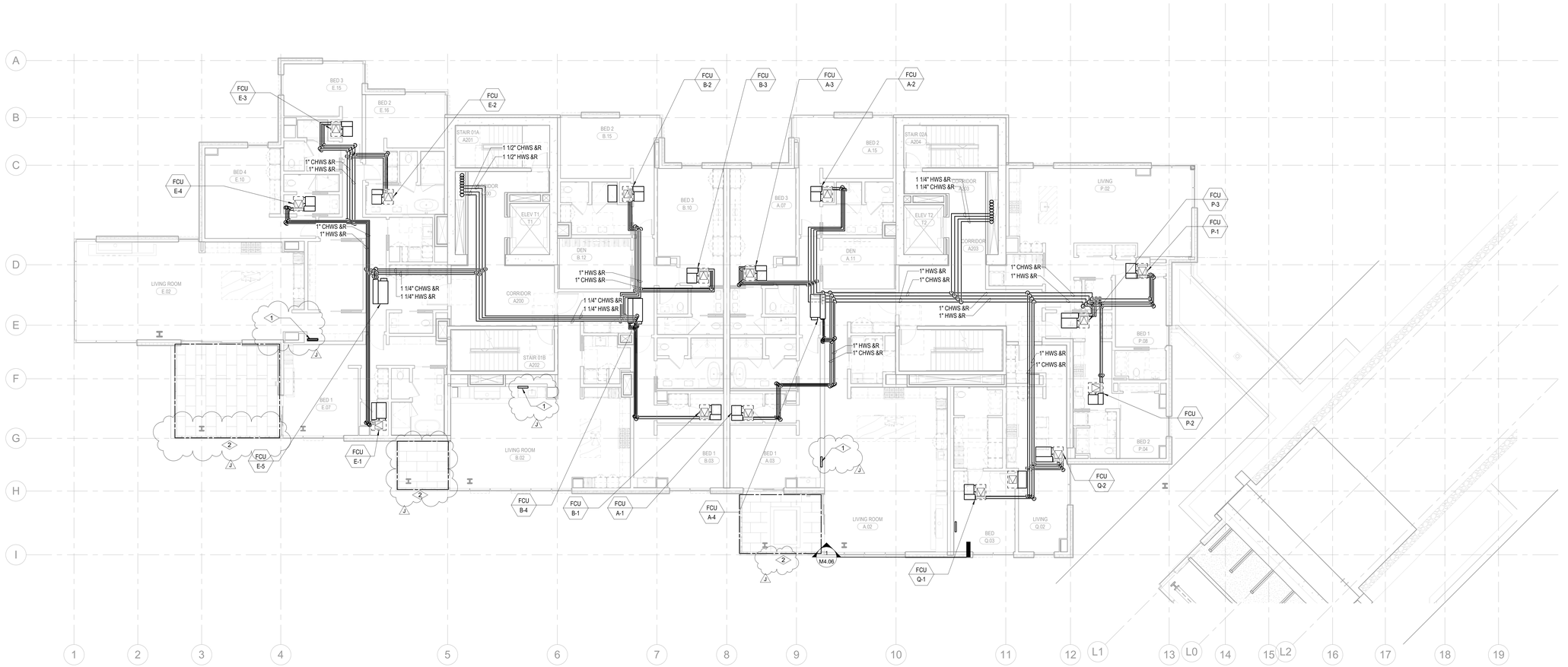
M3.2A.11

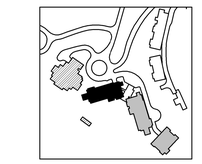
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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TOWER A - LVL 2 MECHANICAL PIPING PLAN

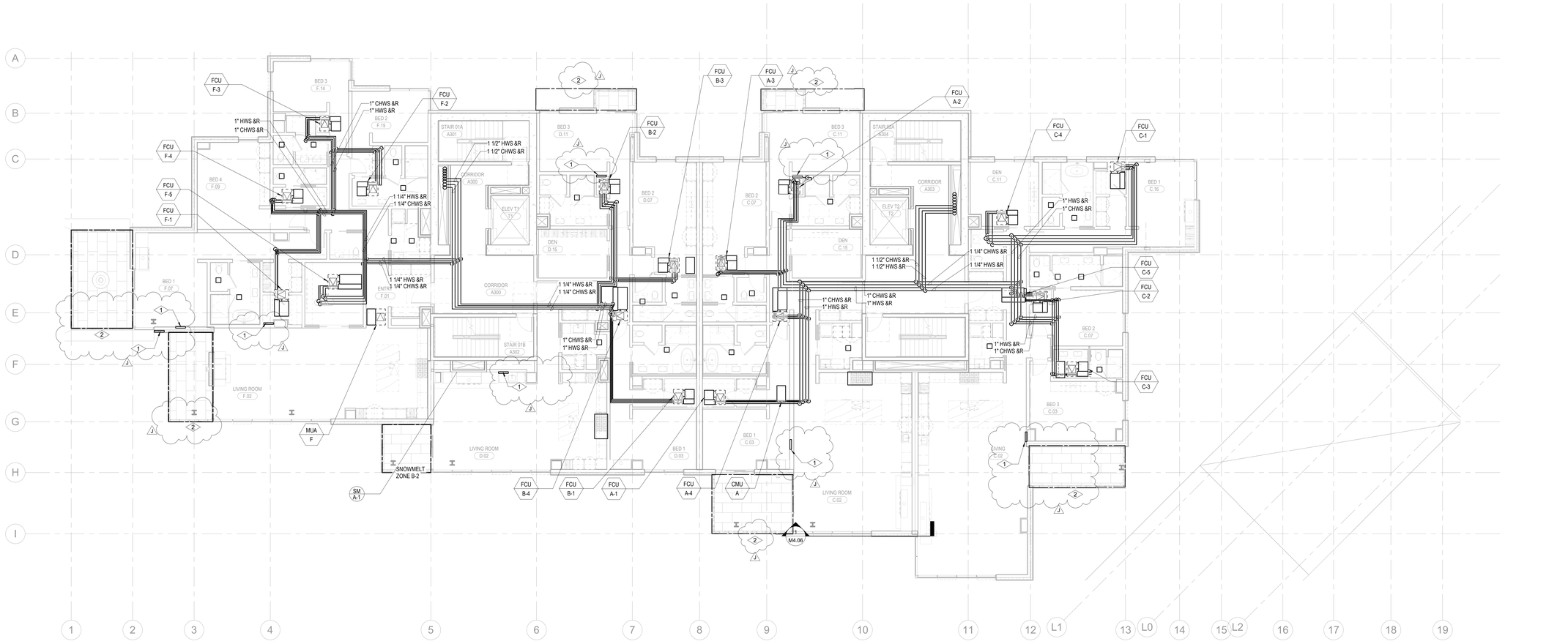
M3.2A.12

SHEET NOTES:

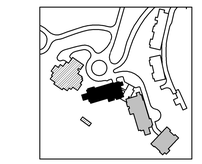
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

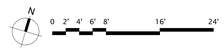
NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A - LEVEL 3 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnuson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O.
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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TOWER A - LVL 3 MECHANICAL PIPING PLAN

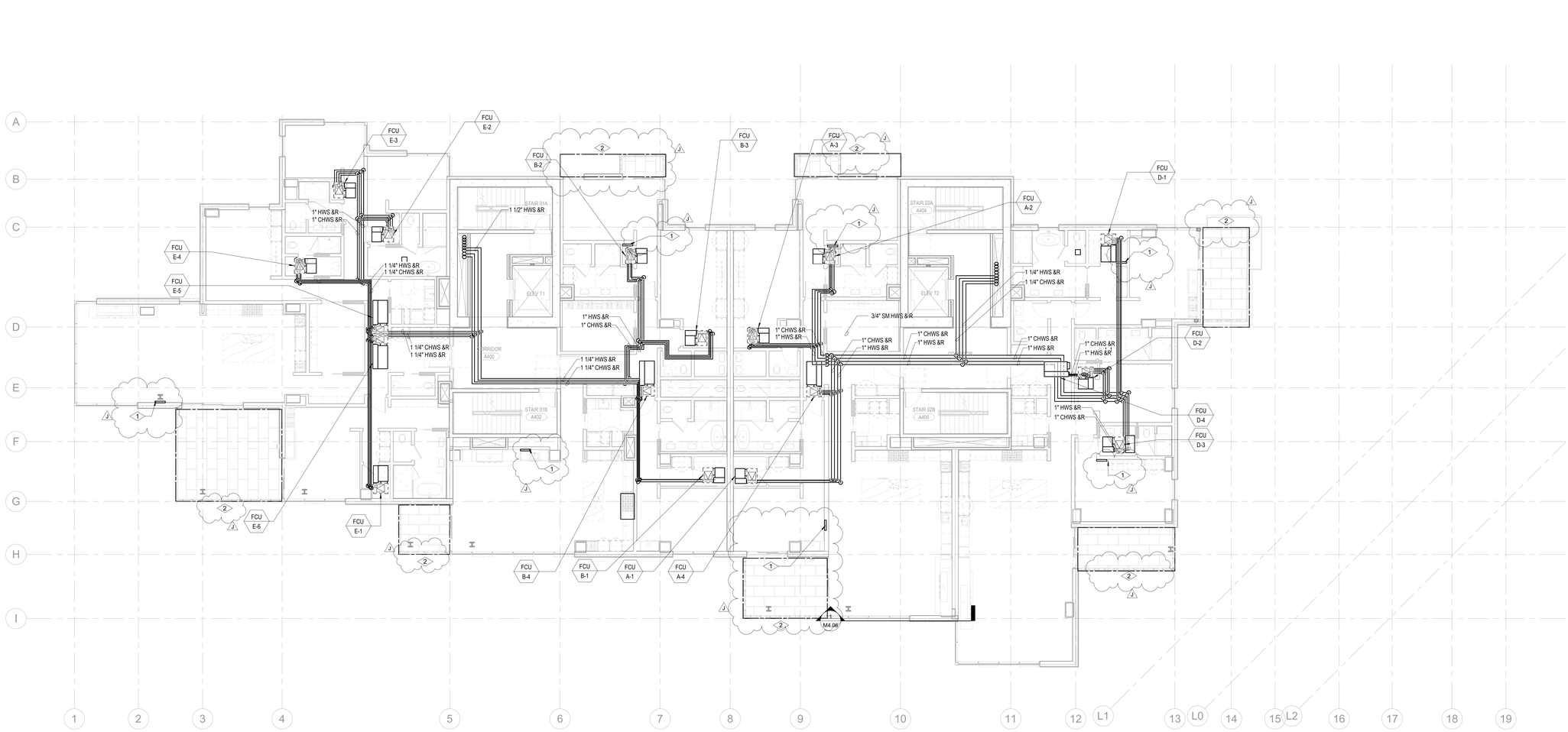
M3.2A.13

SHEET NOTES:

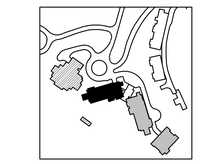
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A - LEVEL 4 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Oi
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
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TOWER A - LVL 4 MECHANICAL PIPING PLAN

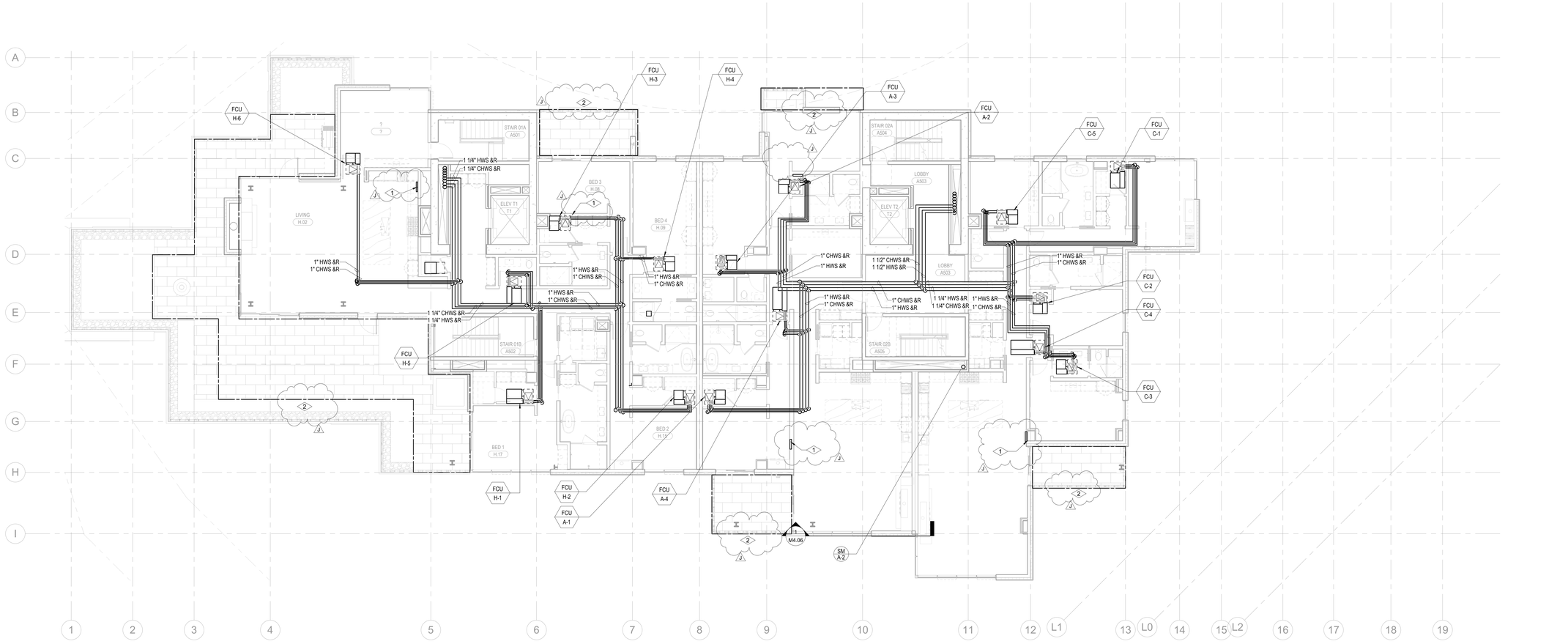
M3.2A.14

SHEET NOTES:

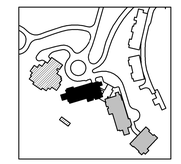
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A - LEVEL 5 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
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Middlebury, VT

Code Consultant
Holmes
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Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Oi.
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
date 5/31/2024

revisions:

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no. date by

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5/31/2024

TOWER A - LVL 5 MECHANICAL PIPING PLAN

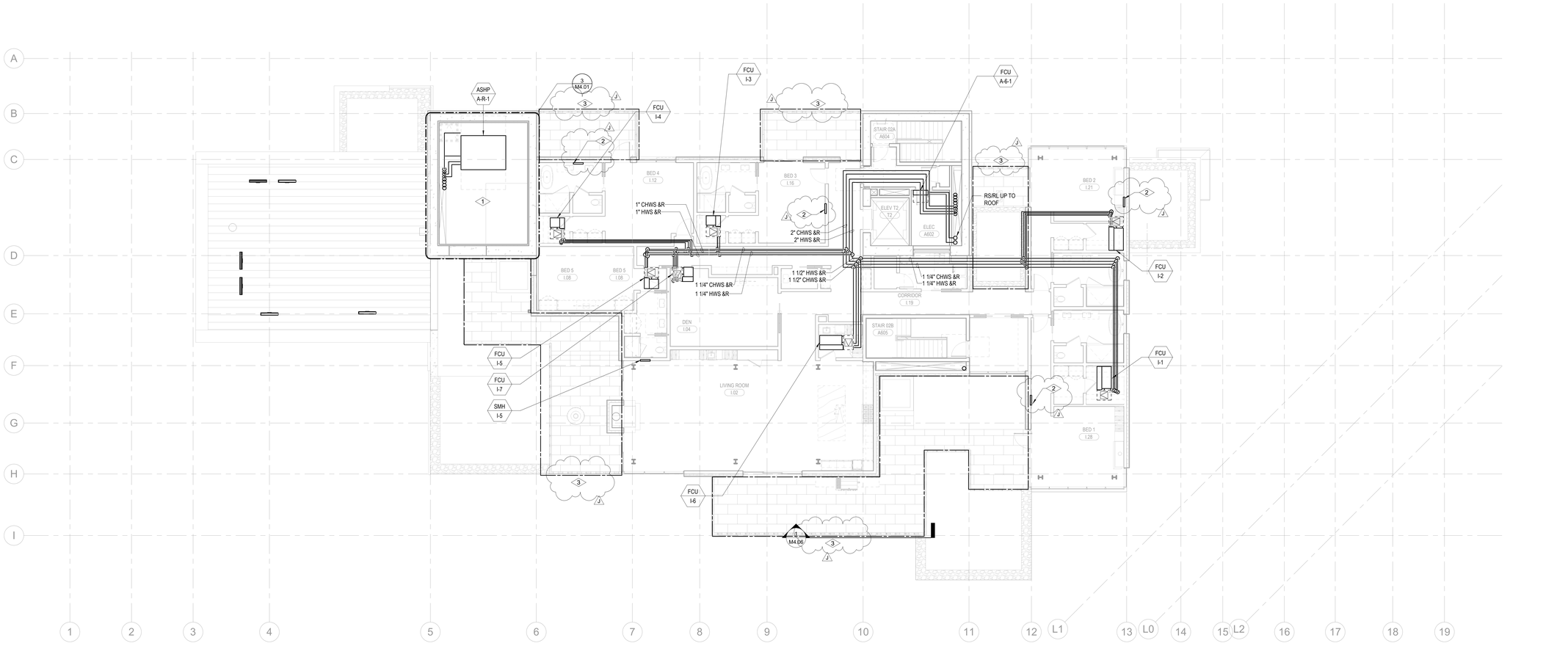
M3.2A.15

SHEET NOTES:

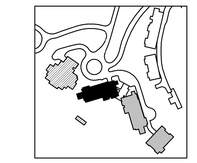
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 PROVIDE HEAT TRACE ON ALL EXPOSED PIPING, REFER TO ELECTRICAL DRAWINGS FOR 120/1 CONNECTION
2 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
3 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER A - LEVEL 6 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
8300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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5/31/2024

TOWER A - LVL 6 MECHANICAL PIPING PLAN

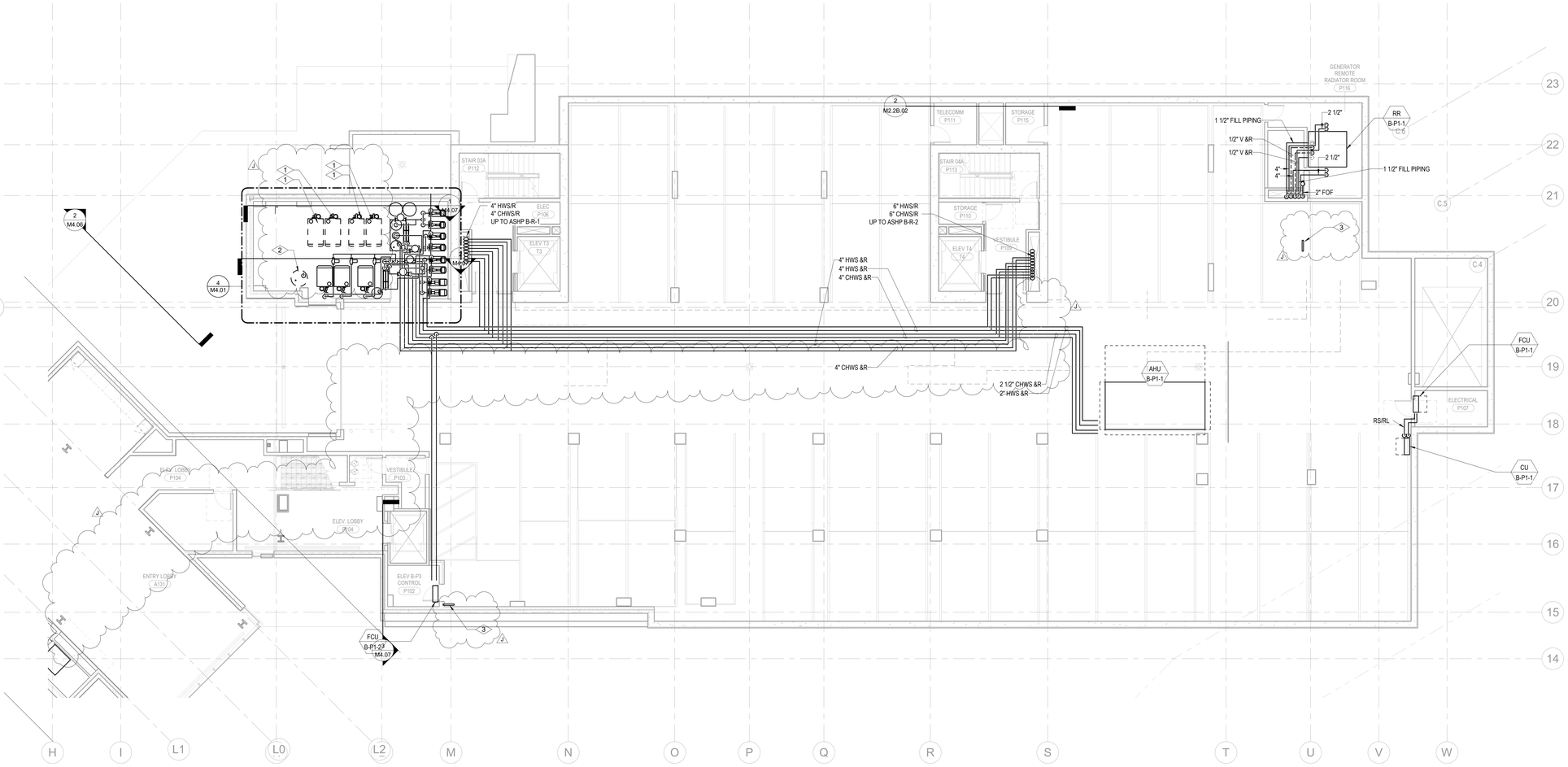
M3.2A.16

SHEET NOTES:

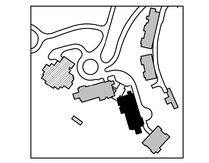
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06B.

NUMBERED NOTES:

#	
1	FUTURE BOILER FOR RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN BUILD BY OTHERS
2	FUTURE EXPANSION TANK FOR RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN BUILD BY OTHERS
3	FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER B - PARKING LEVEL 1 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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TOWER B - LVL P1
MECHANICAL PIPING
PLAN

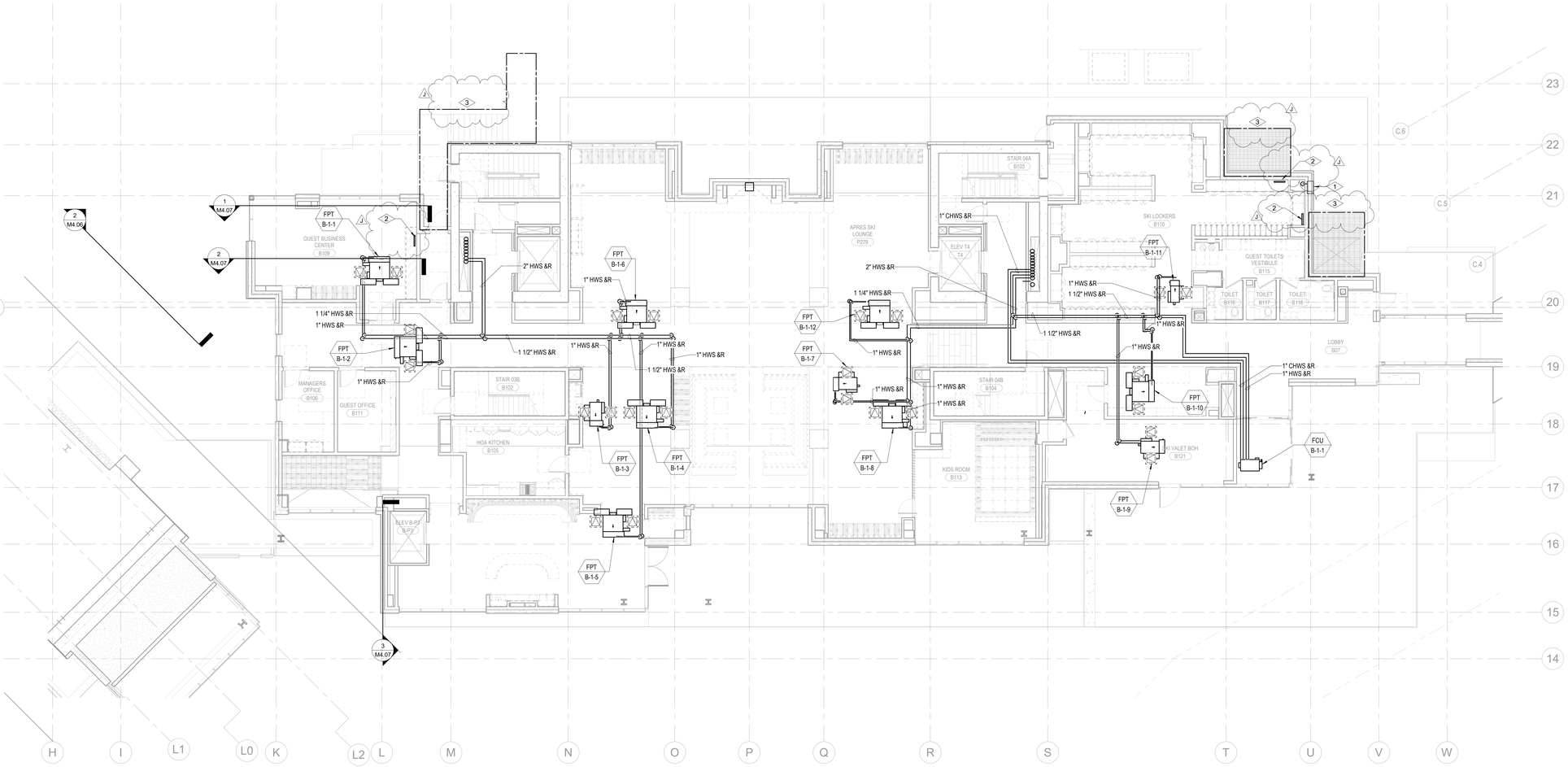
M3.2B.03

SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 REMOTE FUEL FILL ASSEMBLY WITH OVERFILL PROTECTION FURNISHED BY OTHERS AND INSTALLED BY MECHANICAL CONTRACTOR. INSTALL 9' FROM BUILDING OPENINGS.
2 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
3 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS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SKI LOCKERS B110
APRES SKI LOUNGE P279
ELEV T4 T4
GUEST TOILETS VESTIBULE B115
TOILET B116
TOILET B117
TOILET B118
LOBBY B07
GUEST BUSINESS CENTER B109
MANAGERS OFFICE B106
GUEST OFFICE B111
STAIR 03B B102
HOA KITCHEN B105
ELEV B-P3 B P3
STAIR 04B B104
KIDS ROOM B113
SKI VALET BOH B121
FPT B-1-1
FPT B-1-2
FPT B-1-3
FPT B-1-4
FPT B-1-5
FPT B-1-6
FPT B-1-7
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FPT B-1-10
FPT B-1-11
FPT B-1-12
FCU B-1-1
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1" HWS &R
1 1/2" HWS &R
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SHEET NOTES:

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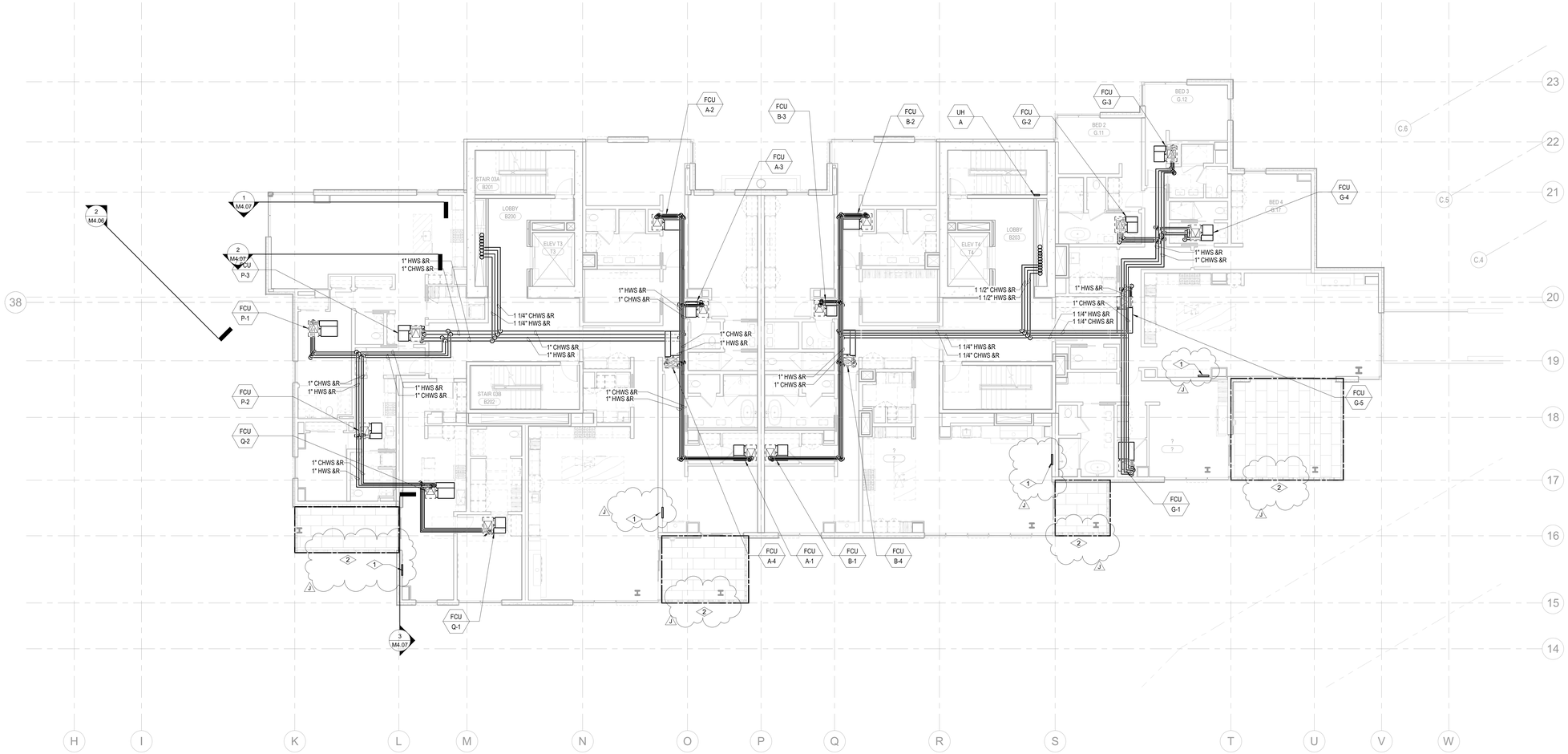
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS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FCU B-3
FCU A-3
FCU B-2
UH A
FCU G-2
FCU G-3
FCU G-4
FCU G-5
FCU G-1
FCU P-1
FCU P-2
FCU P-3
FCU Q-2
FCU Q-1
FCU A-4
FCU A-1
FCU B-1
FCU B-4
STAIR 03A B201
STAIR 03B B202
LOBBY B200
LOBBY B203
ELEV T3 T3
ELEV T4 T4
BED 3 G.12
BED 2 G.11
BED 4 G.13
1" HWS &R
1" CHWS &R
1 1/4" CHWS &R
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1" CHWS &R
1" H

SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

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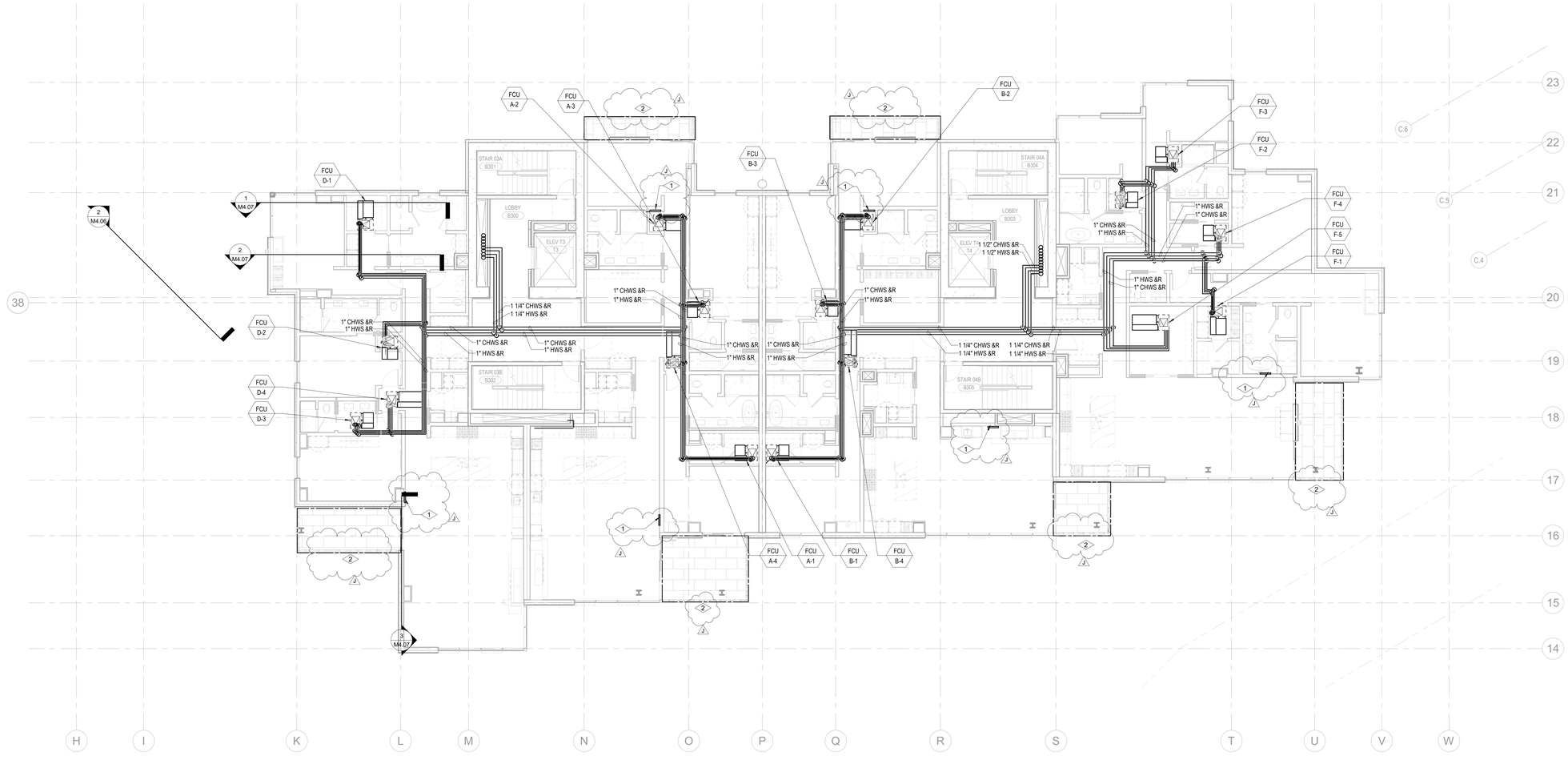
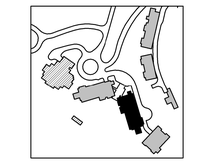


1 TOWER B - LEVEL 3 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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job no.
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5/31/2024

TOWER B - LVL 3 MECHANICAL PIPING PLAN

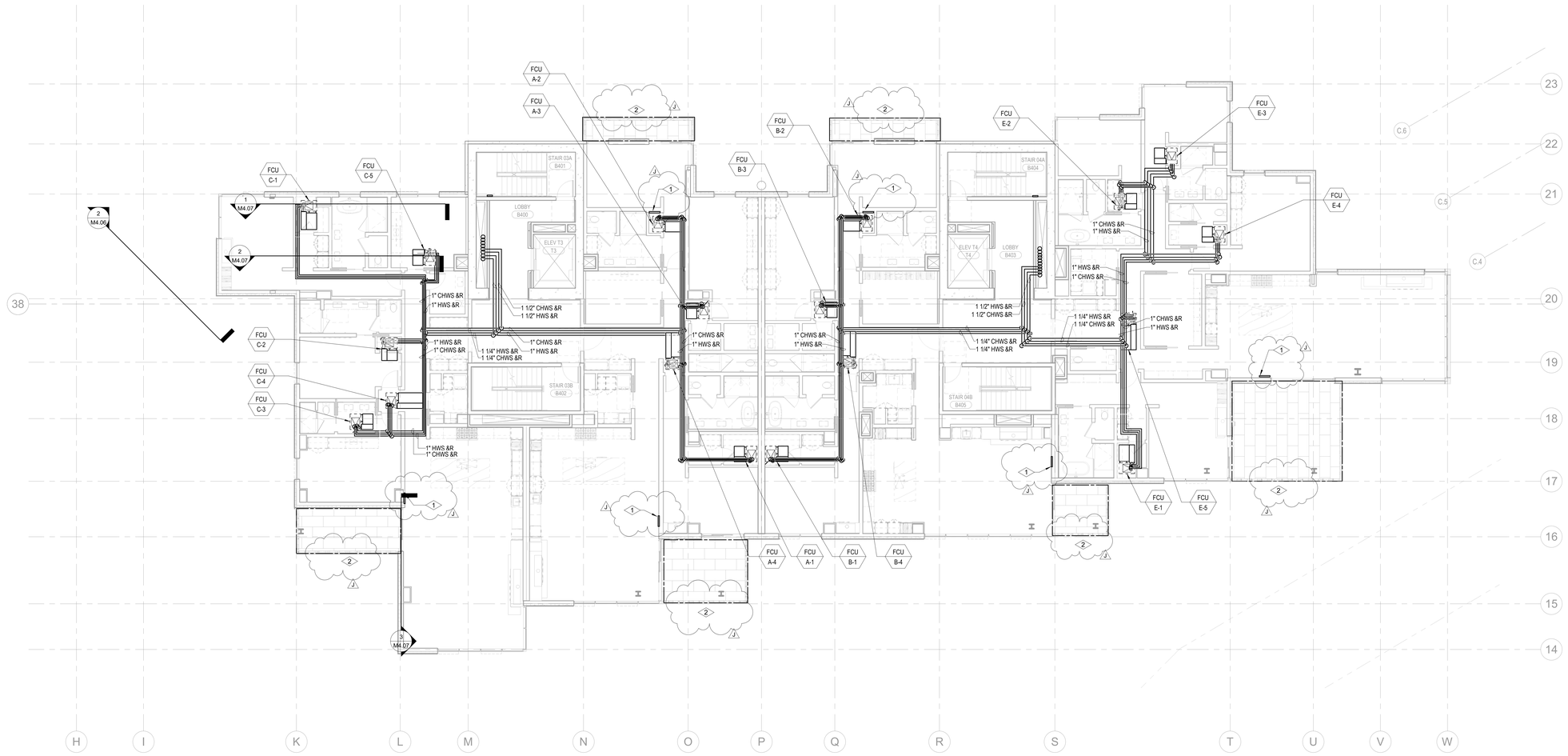
M3.2B.13

SHEET NOTES:

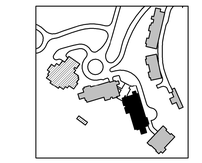
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER B - LEVEL 4 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consultant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
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TOWER B - LVL 4 MECHANICAL PIPING PLAN

M3.2B.14

SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
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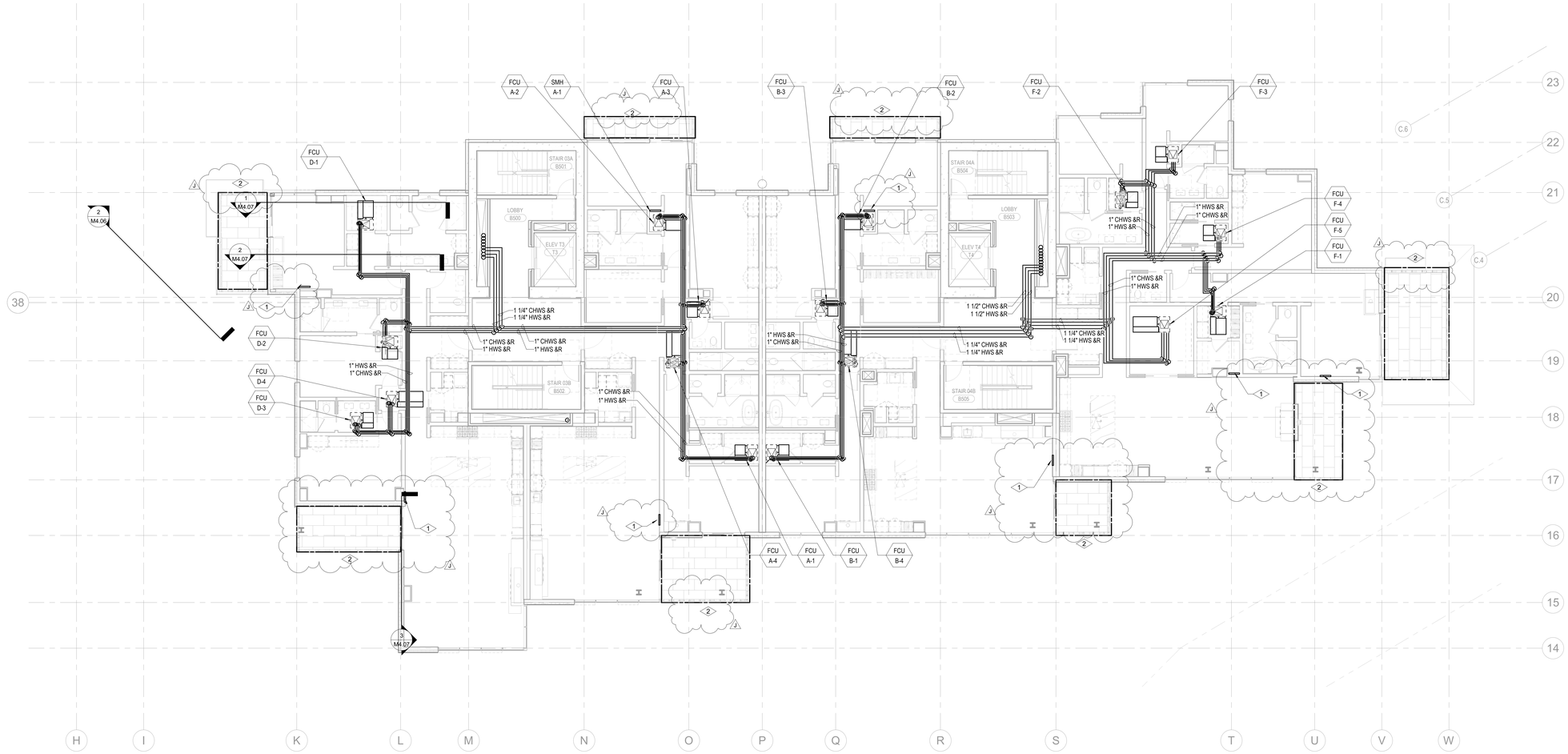
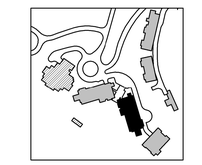


1 TOWER B - LEVEL 5 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
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Vertical Transportation Consulatant
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19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
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Lighting Designer
Oₓ
1319 SE MLK Blvd, Suite 210
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RDH
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TOWER B - LVL 5 MECHANICAL PIPING PLAN

M3.2B.15

SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
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NUMBERED NOTES:

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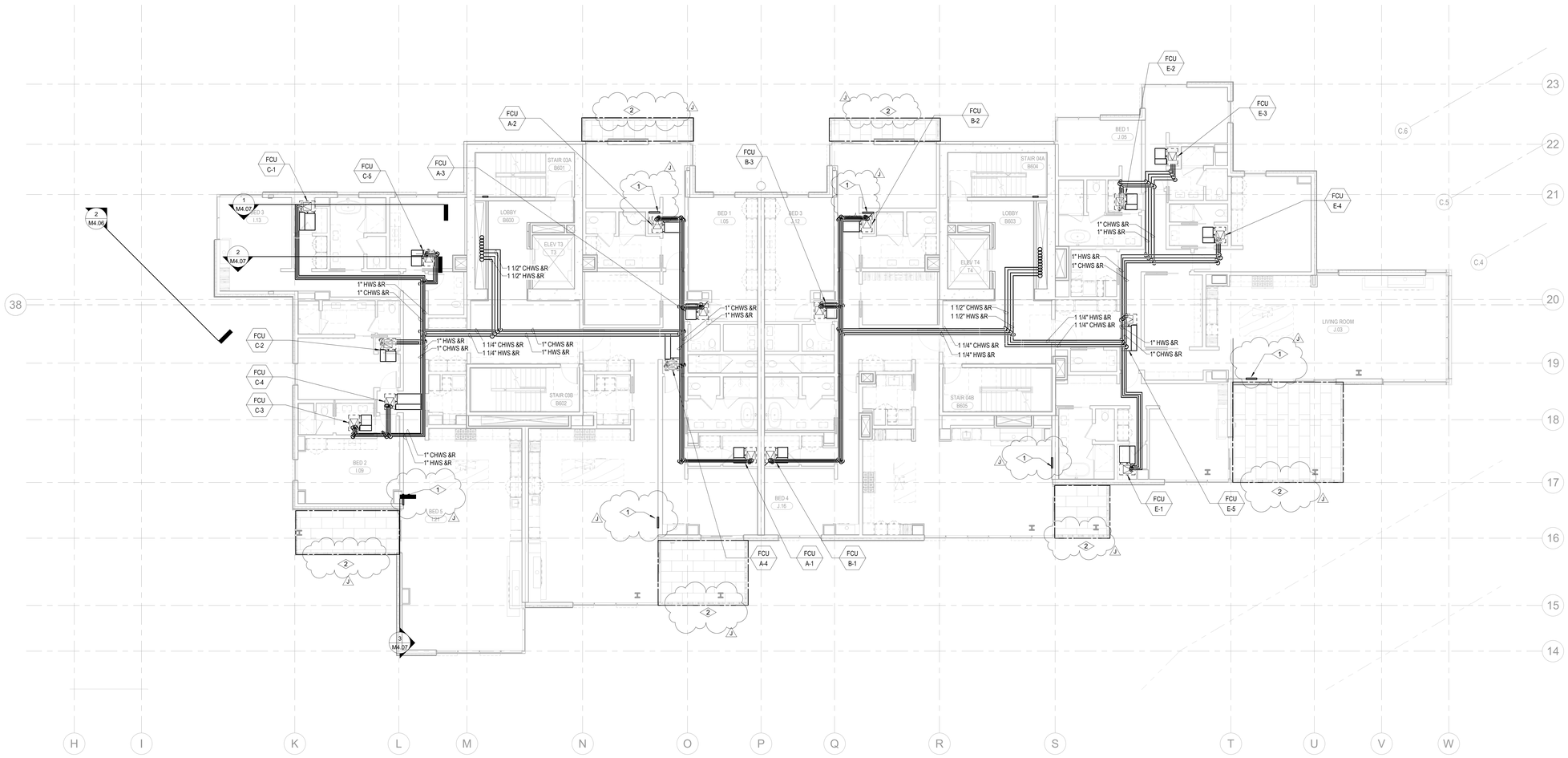
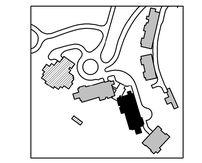


1 TOWER B - LEVEL 6 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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Olson Kundig
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project
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J	01/10/2025	ASI 6

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TOWER B - LVL 6 MECHANICAL PIPING PLAN

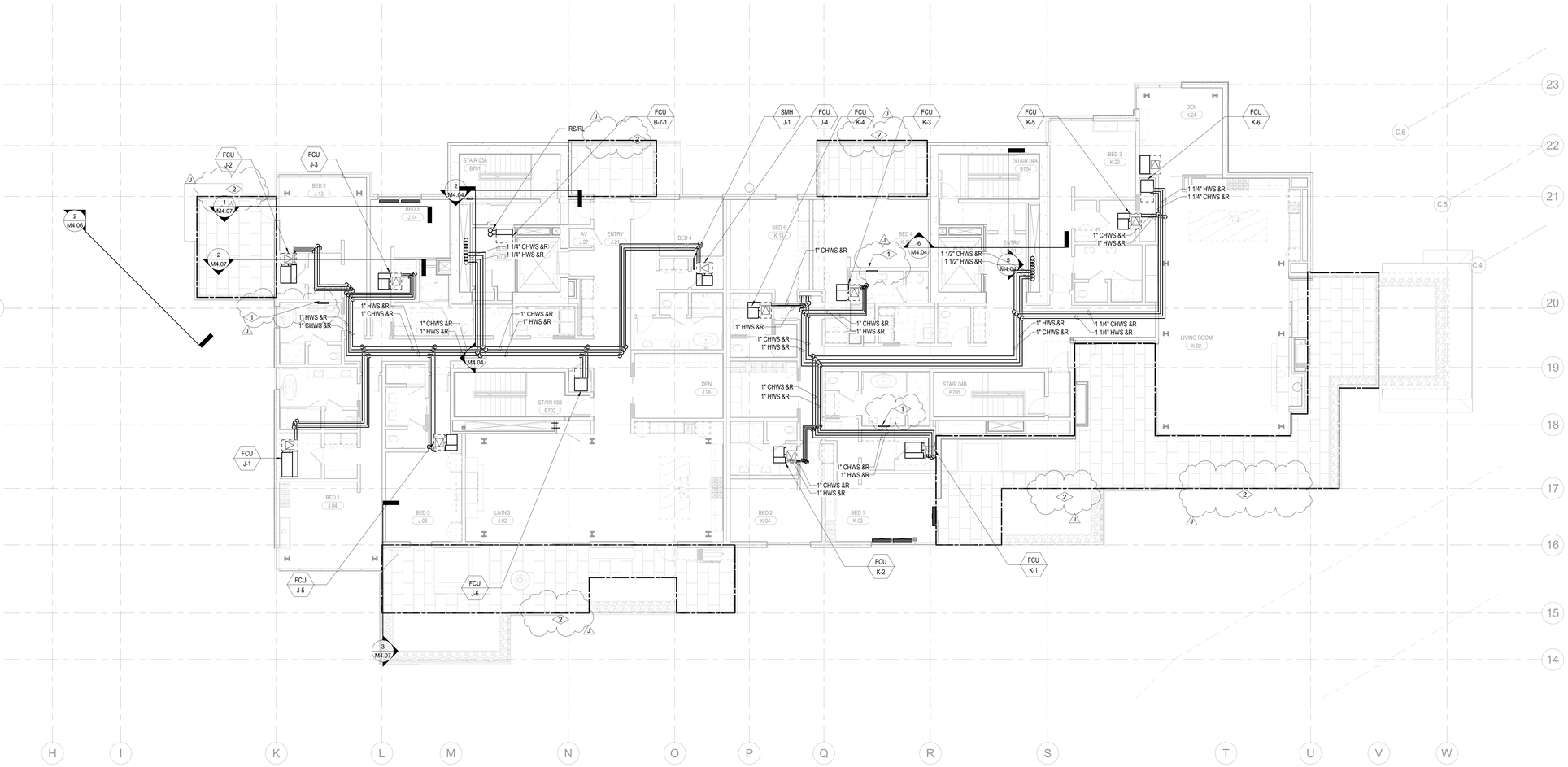
M3.2B.16

SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER B - LEVEL 7 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consultant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnuson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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date 5/31/2024

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J 01/10/2025 ASI 6

no. date by

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5/31/2024

TOWER B - LVL 7 MECHANICAL PIPING PLAN

M3.2B.17

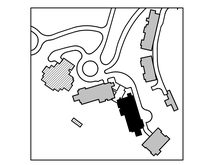
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.

NUMBERED NOTES:

1 PROVIDE HEAT TRACE ON ALL EXPOSED PIPING. REFER TO ELECTRICAL DRAWINGS FOR 120/1 CONNECTION

1 TOWER B - ROOF MECHANICAL PIPIING PLAN
SCALE: 1/8" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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no.	date	by
L	2/5/2025	ASI 6.1
J	01/16/2025	ASI 6
I	01/03/2025	ASI 6 old

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5/31/2024

TOWER B - ROOF MECHANICAL PIPING PLAN

M3.2B.R

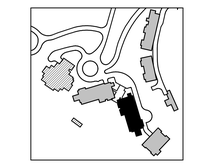
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.

NUMBERED NOTES:

1 PROVIDE HEAT TRACE ON ALL EXPOSED PIPING. REFER TO ELECTRICAL DRAWINGS FOR 120/1 CONNECTION

1 TOWER B - ROOF MECHANICAL PIPIING PLAN
SCALE: 1/8" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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I	01/03/2025	ASI 6 old

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5/31/2024

TOWER B - ROOF MECHANICAL PIPING PLAN

M3.2B.R

SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

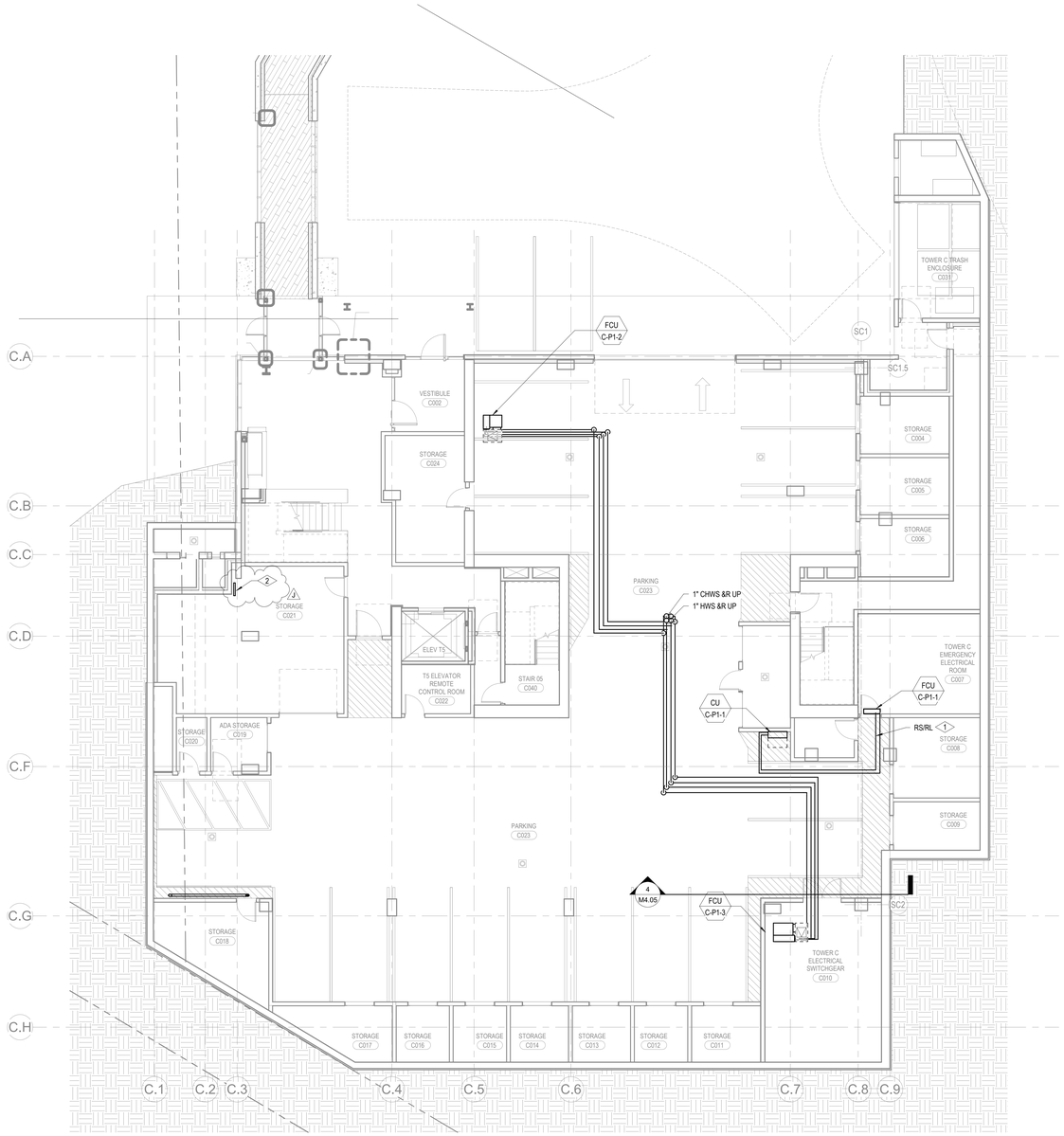
B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

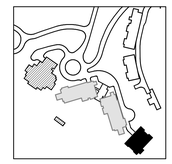
NUMBERED NOTES:

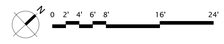
1 REFER TO MANUFACTURER SPECIFICATIONS FOR EXACT PIPING SIZES.

2 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER C - PARKING LEVEL MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"





Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project:
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Oi
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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project manager
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05/31/2024

TOWER C - LVL P1 MECHANICAL PIPING PLAN

M3.2C.01

SHEET NOTES:

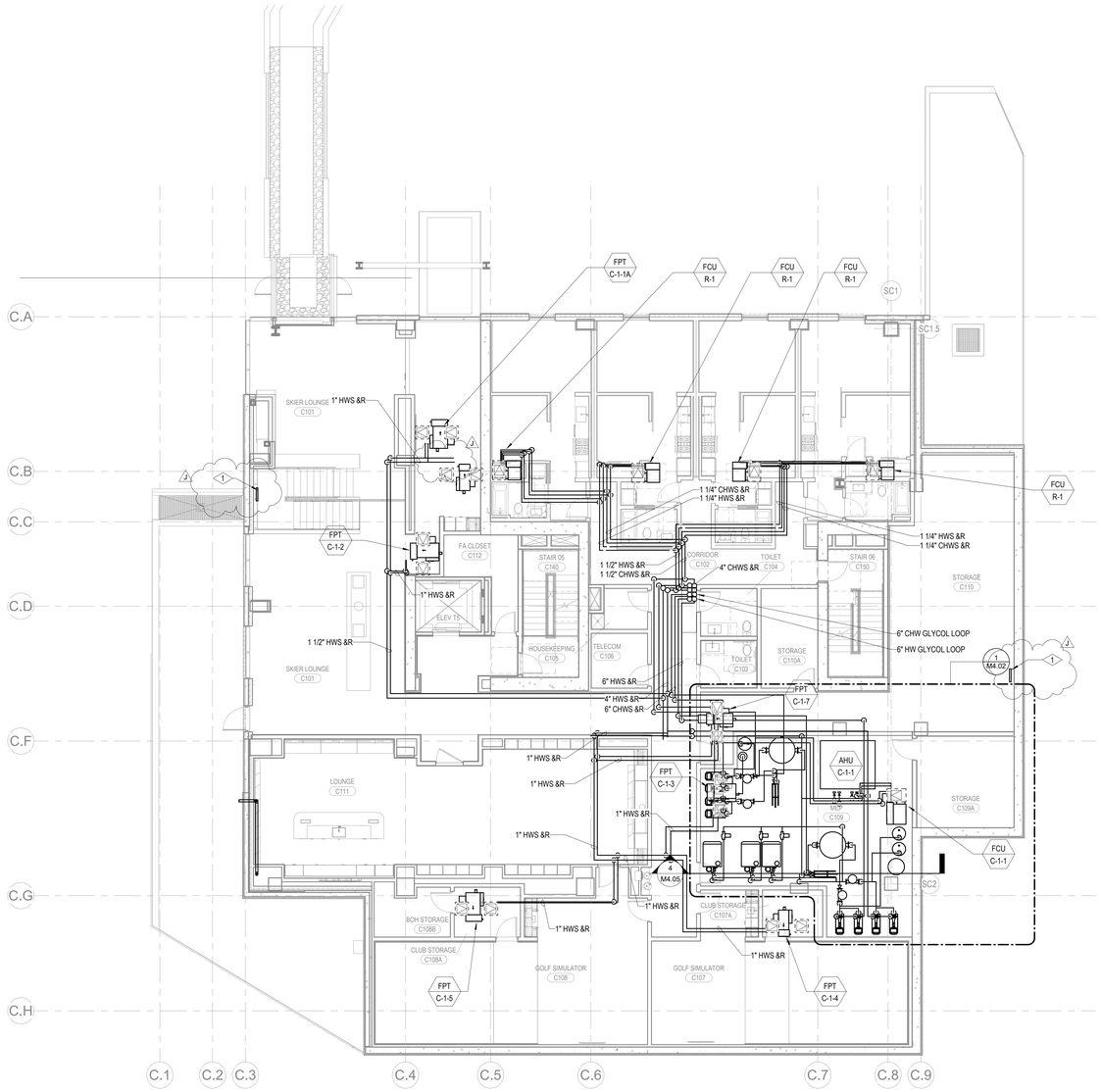
A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

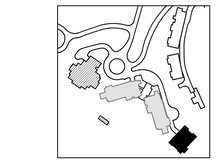
NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER C - LEVEL 1 MECHANICAL PIPING PLAN

SCALE: 1/8" = 1'-0"



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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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05/31/2024

TOWER C - LVL 1 MECHANICAL PIPING PLAN

M3.2C.11

SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

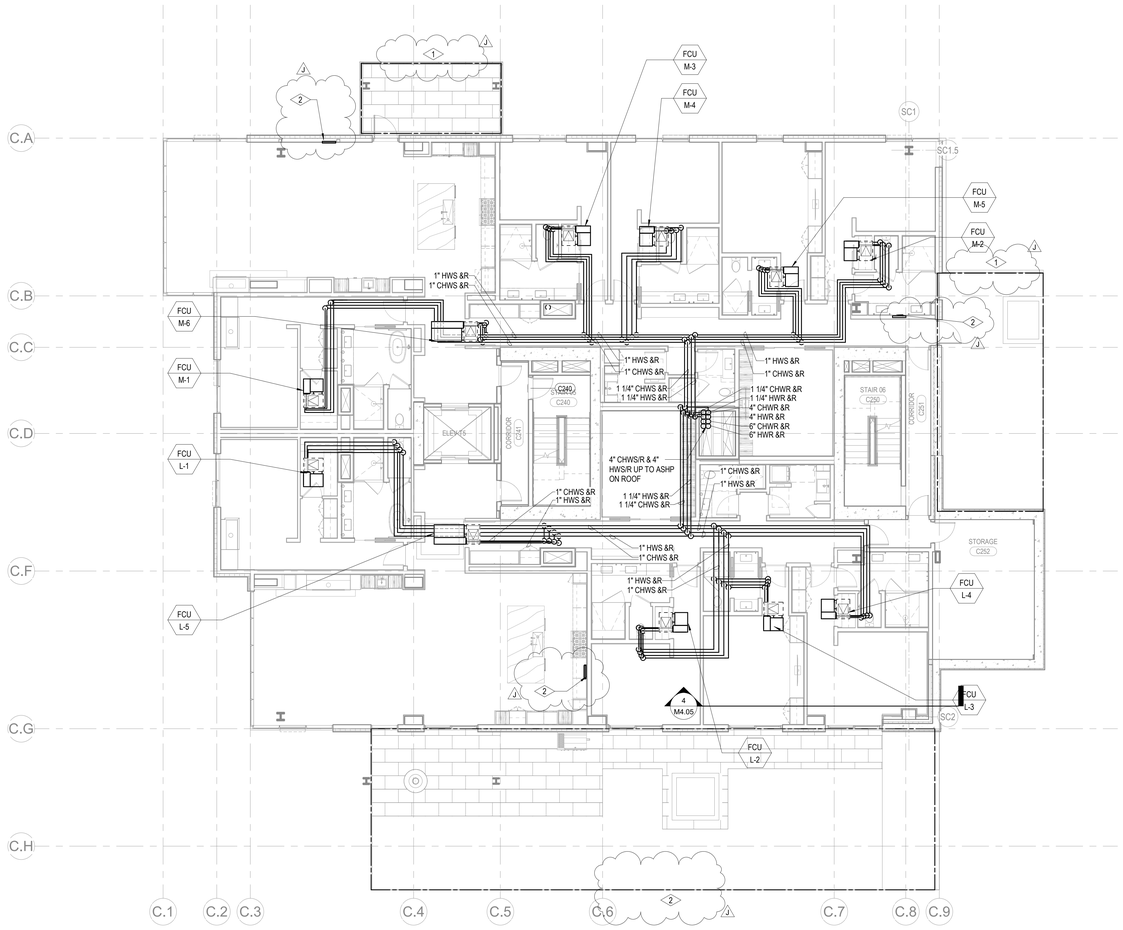
B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

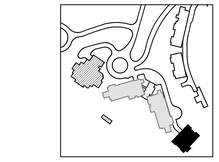
1 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS

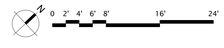
2 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER C - LEVEL 2 MECHANICAL PIPING PLAN

SCALE: 1/8" = 1'-0"





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP

Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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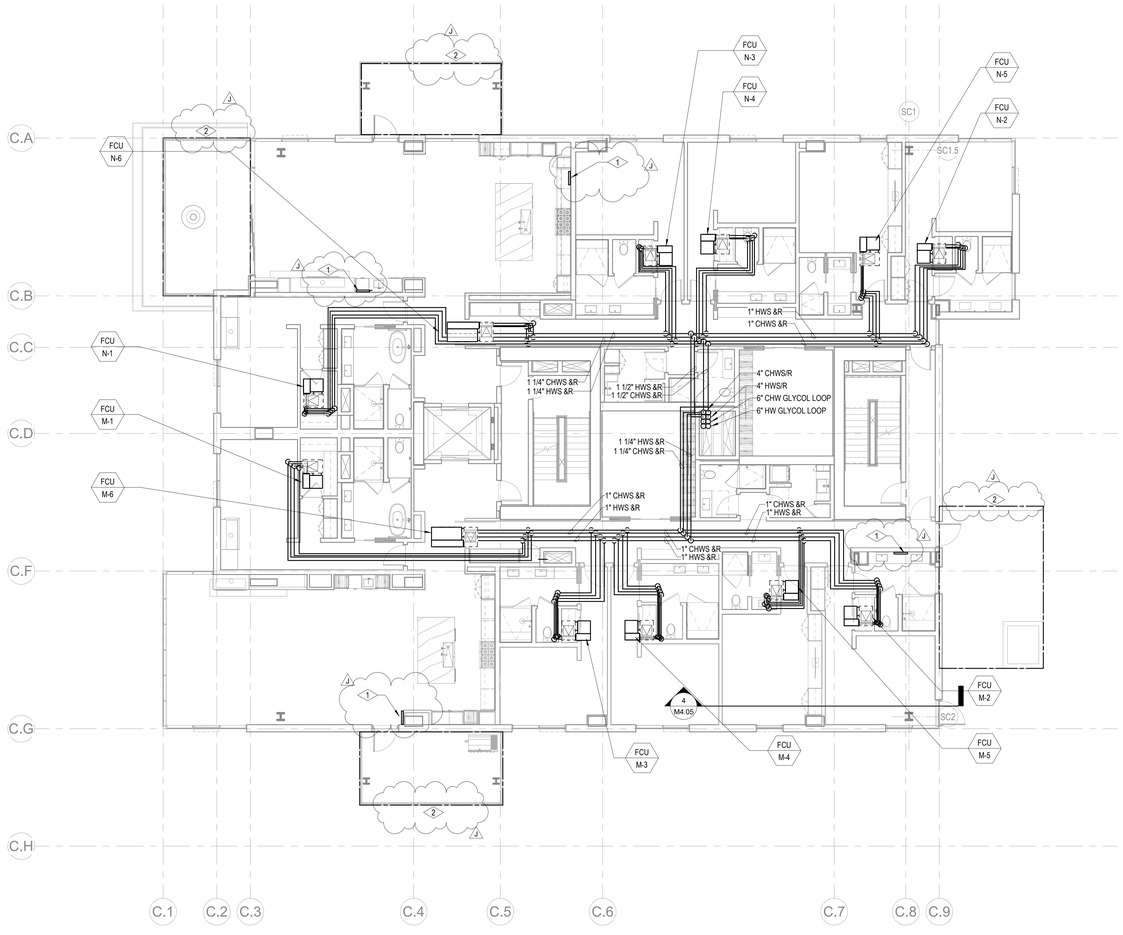
TOWER C - LVL 2 MECHANICAL PIPING PLAN

M3.2C.12



1 TOWER C - LEVEL 3 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

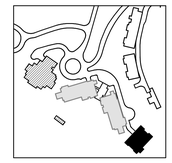
C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

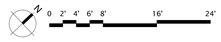
NUMBERED NOTES:

(#)

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS

J 2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS





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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
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TOWER C - LVL 3 MECHANICAL PIPING PLAN

M3.2C.13

SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

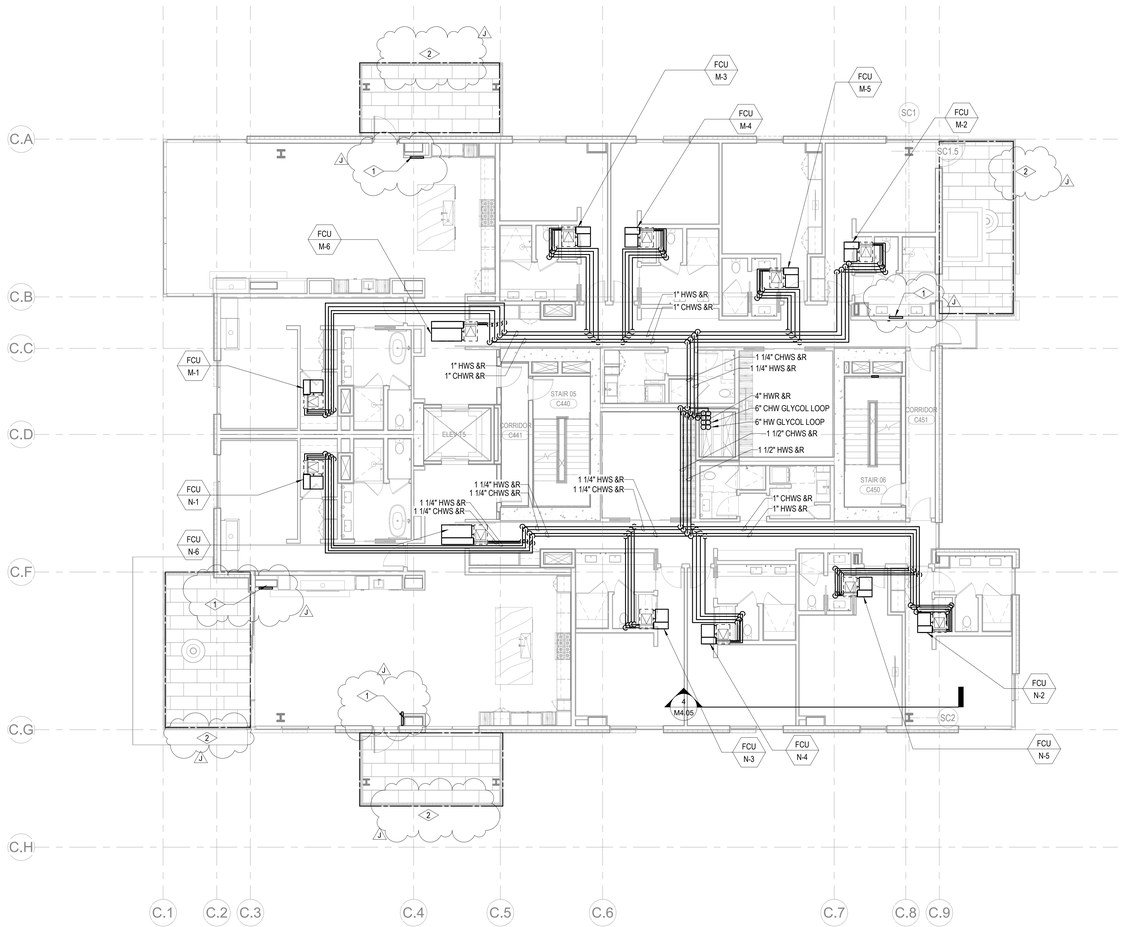
B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

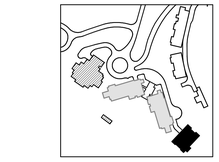
NUMBERED NOTES:

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS

2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER C - LEVEL 4 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnuson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Ox
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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principal architect
project manager
drawn by
checked by Checker
job no.
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IFC Set 3 of 3
05/31/2024

TOWER C - LVL 4 MECHANICAL PIPING PLAN

M3.2C.14

SHEET NOTES:

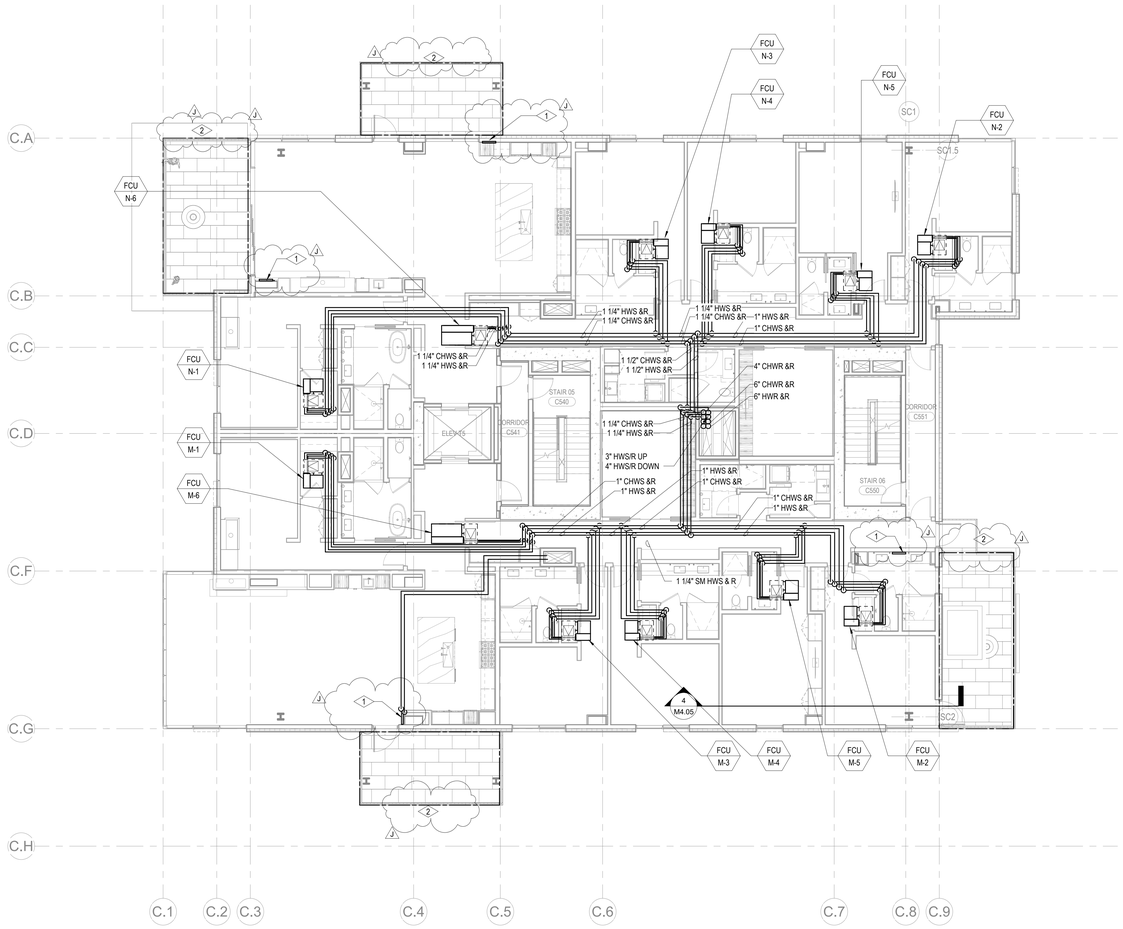
A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

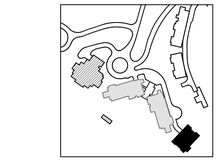
C. REFER TO MANUFACTURER SPECIFICATIONS FOR [illegible] REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.

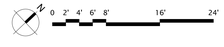
NUMBERED NOTES:

1. FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
2. FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER C - LEVEL 5 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"





Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
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TOWER C - LVL 5 MECHANICAL PIPING PLAN

M3.2C.15

SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

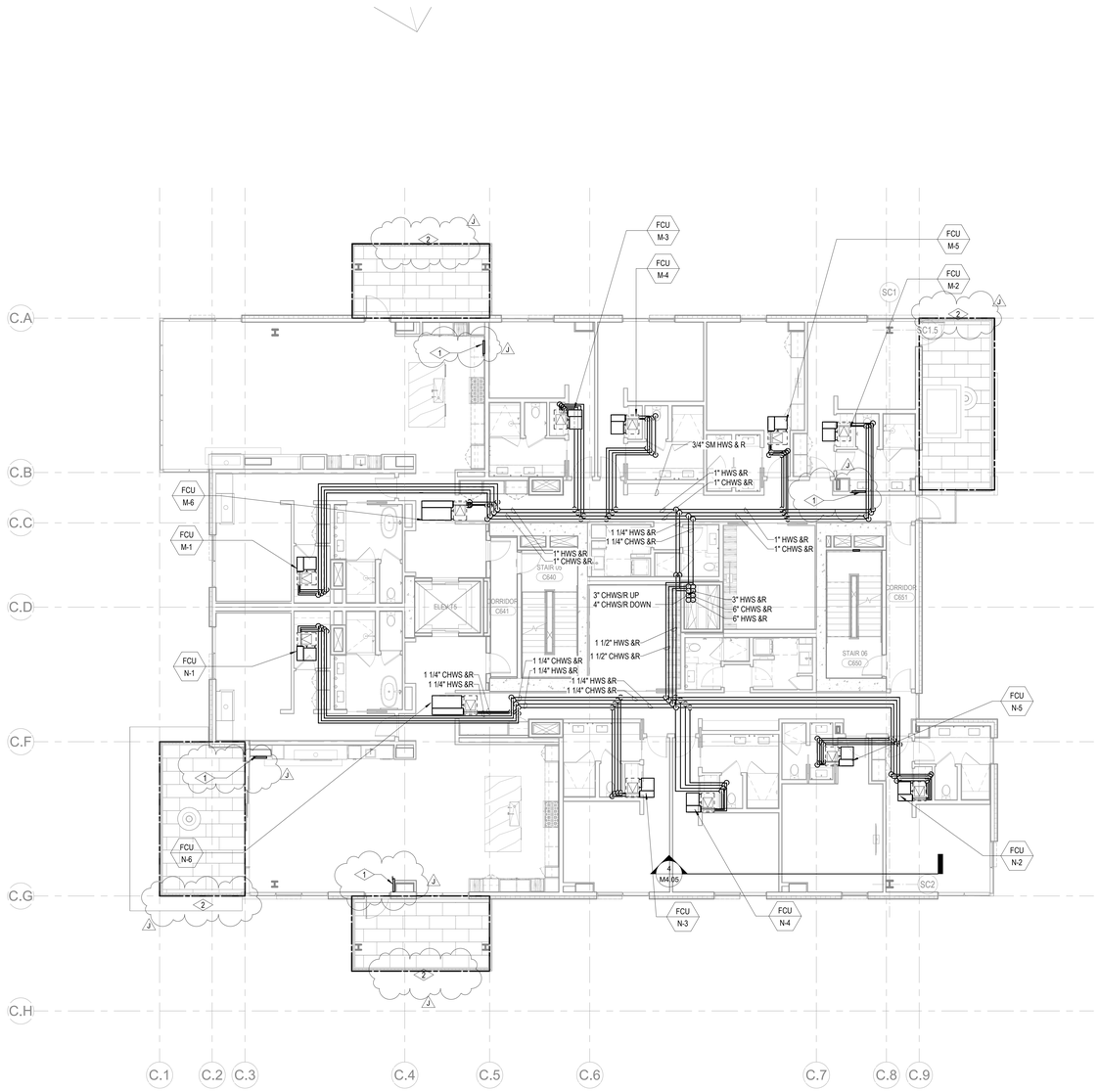
B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

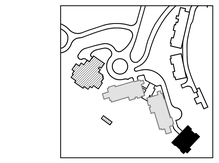
NUMBERED NOTES:

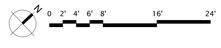
1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS

2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER C - LEVEL 6 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"





Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

Reserved for permit stamp

principal architect
project manager
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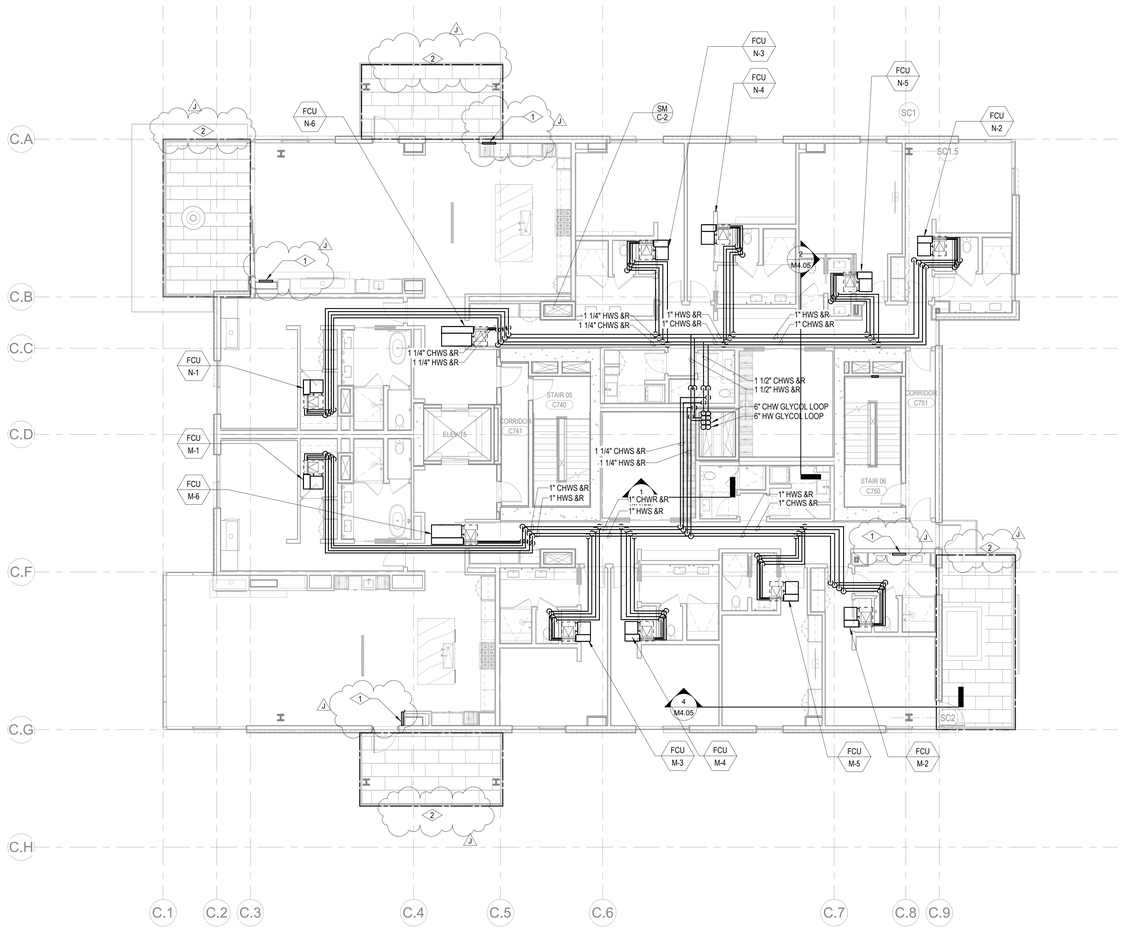
TOWER C - LVL 6 MECHANICAL PIPING PLAN

M3.2C.16



1 TOWER C - LEVEL 7 MECHANICAL PIPING PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

J

1 FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS

2 FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t 206.624.5670 olsonkundig.com

project
SOMMET BLANC
8300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
date 05/31/2024

revisions:

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no. date by

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05/31/2024

TOWER C - LVL 7 MECHANICAL PIPING PLAN

M3.2C.17

N 0 2' 4' 6' 8' 16' 24'

SHEET NOTES:

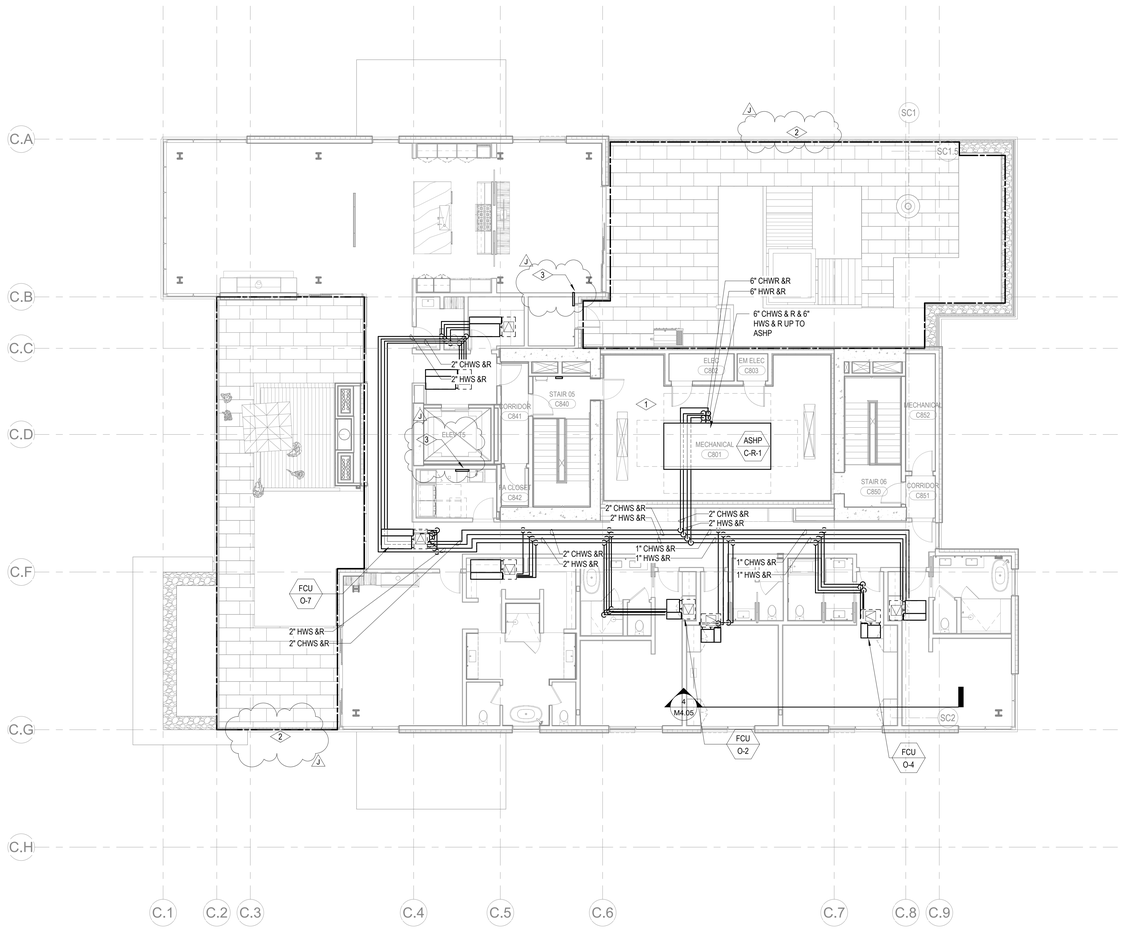
A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1. PROVIDE HEAT-TRACE ON ALL EXPOSED PIPING. REFER TO ELECTRICAL DRAWINGS FOR 120/1 CONNECTION
2. FUTURE SNOWMELT AREA, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS
3. FUTURE SNOWMELT HEADER LOCATION, RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN-BUILD BY OTHERS



1 TOWER C - LEVEL 8 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

0 2' 4' 6' 8' 16' 24'

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
date 05/31/2024

revisions:

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J	1/10/2024	ASI 6
D	08/23/2024	ASI 003

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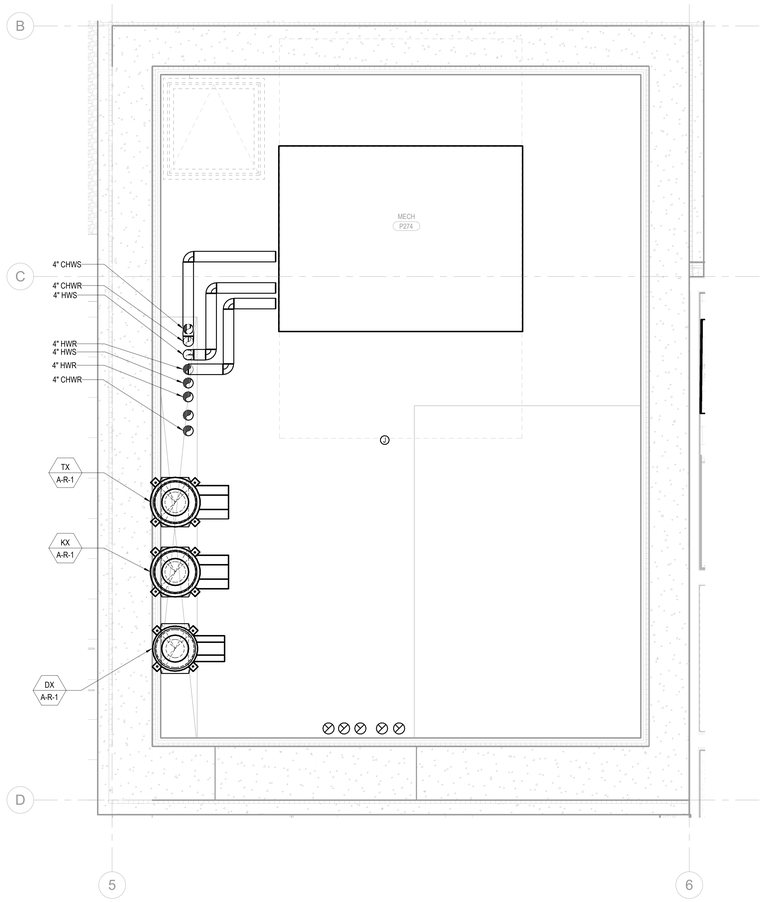
05/31/2024

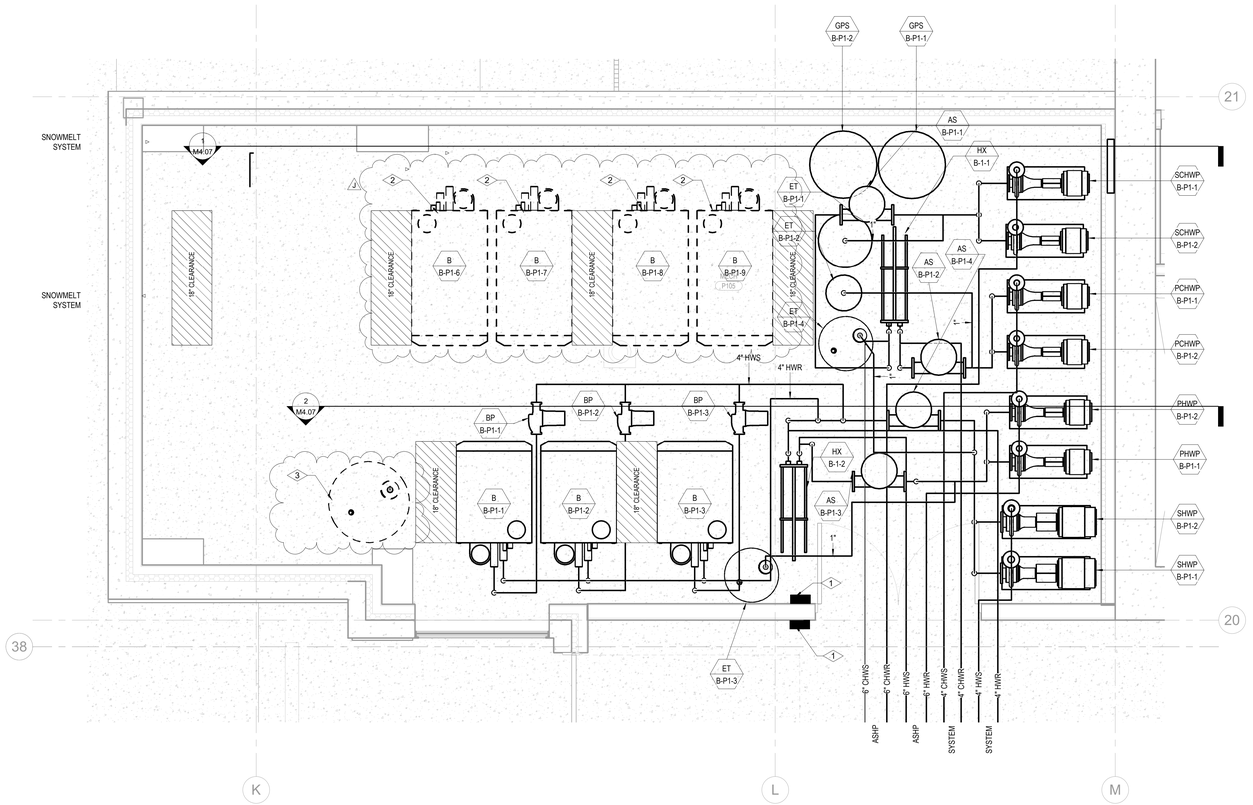
TOWER C - LVL 8 MECHANICAL PIPING PLAN

M3.2C.18



3 TOWER A - LEVEL 6 MECHANICAL PIPING ENLARGED PLAN

SCALE: 1/2" = 1'-0"

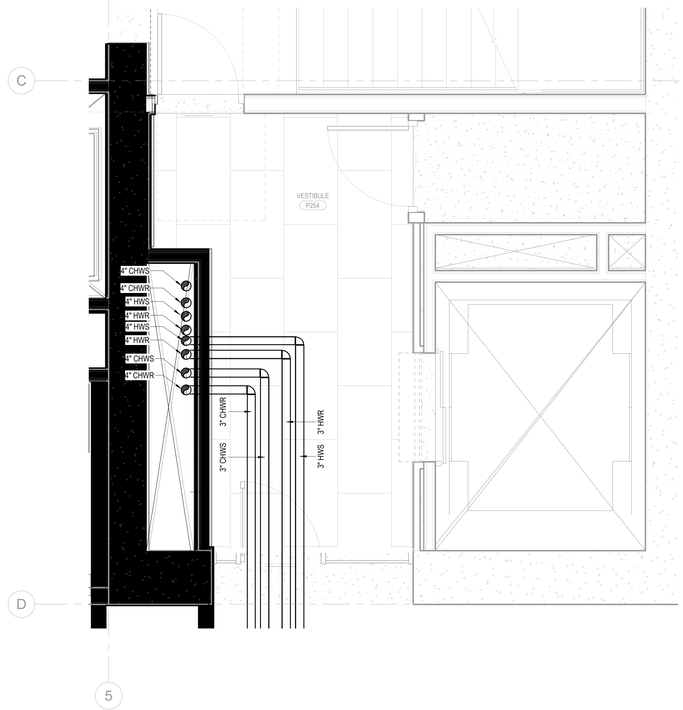


4 TOWER B - PARKING LEVEL 1 BOILER ROOM ENLARGED PLAN

SCALE: 1/2" = 1'-0"

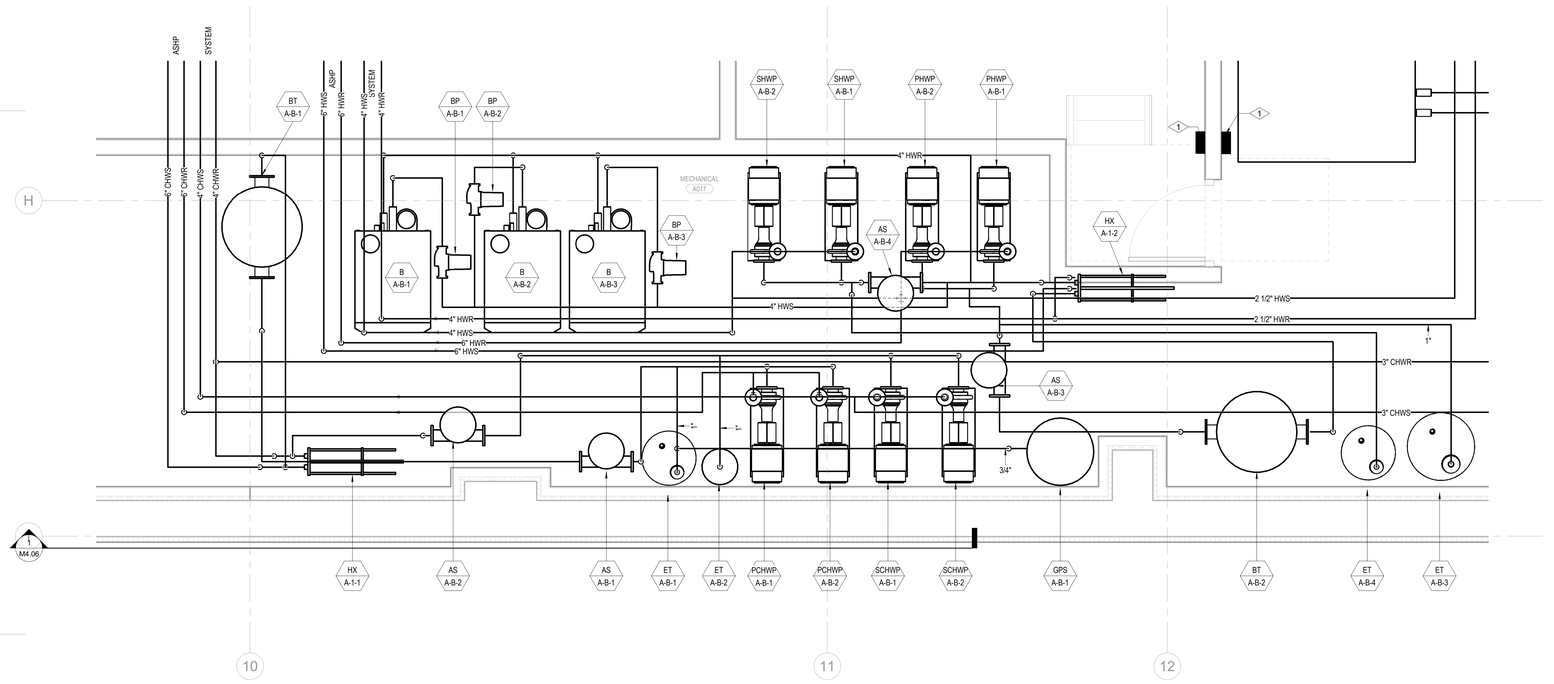
NUMBERED NOTES:

1. PROVIDE EMERGENCY BOILER SHUTOFF SWITCH WITH AUDIBLE/VISUAL ALARM ON BOTH INTERIOR AND EXTERIOR OF ROOM.
2. FUTURE BOILER FOR RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN BUILD BY OTHERS



2 TOWER A - PARKING LEVEL 2 MECHANICAL PIPING ENLARGED PLAN

SCALE: 1/2" = 1'-0"



1 TOWER A - LEVEL A BOILER ROOM ENLARGED PLAN

SCALE: 1/2" = 1'-0"

N 0 2' 4' 6' 8' 16' 24'

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: (206) 624-5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Oi
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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job no.
date 5/31/2024

revisions:

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J	01/10/2025	ASI 6
I	01/03/2025	ASI 6 old

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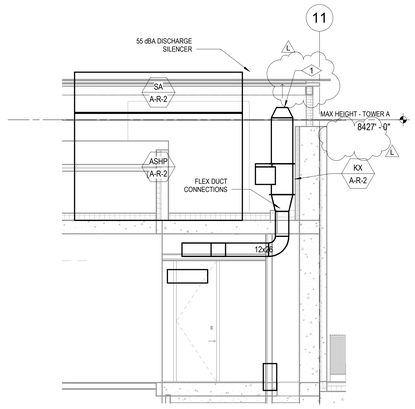
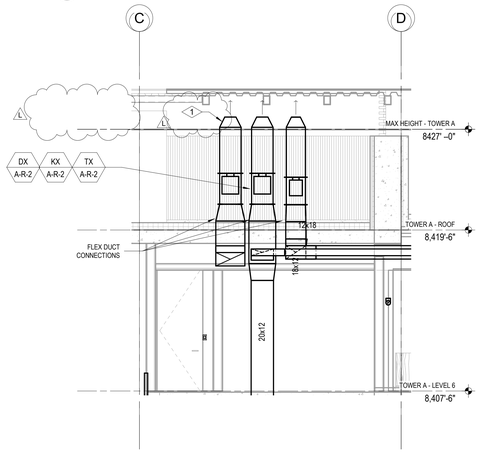
MECHANICAL ENLARGED PLANS

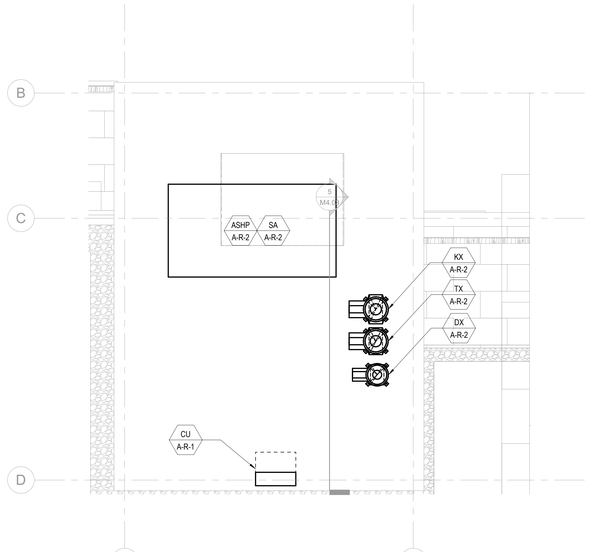
M4.01



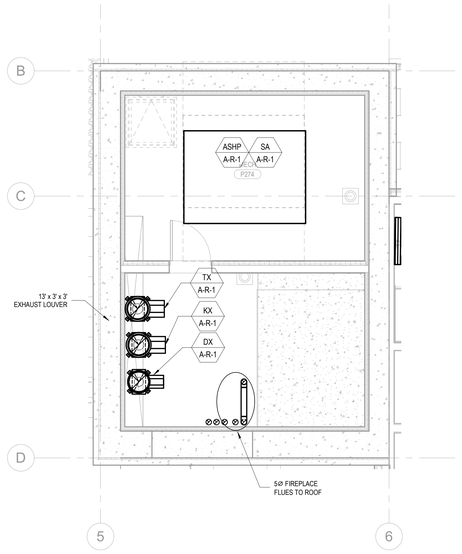
6 TOWER A ROOF - EAST SECTION 2
SCALE: 1/4" = 1'-0"



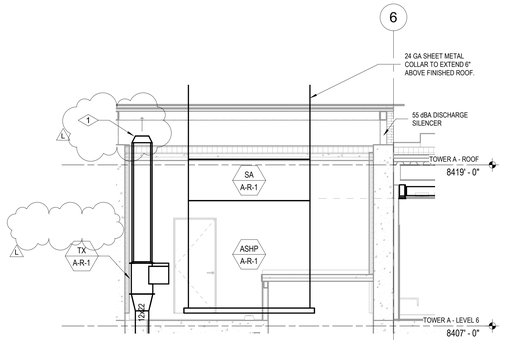
5 TOWER A ROOF - EAST SECTION 1
SCALE: 1/4" = 1'-0"



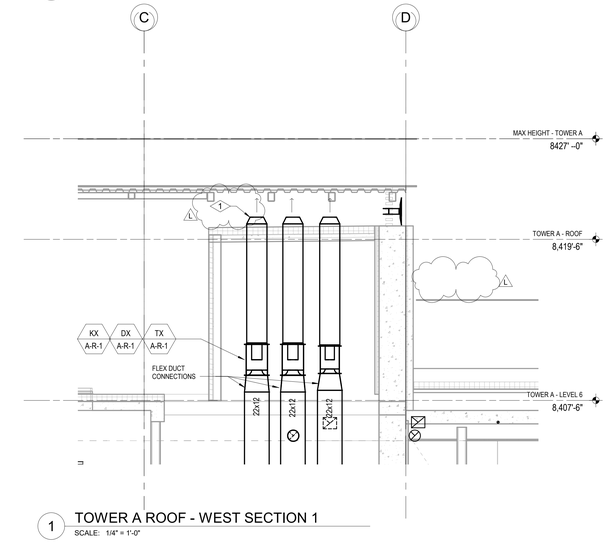
7 TOWER A - EAST ROOF WELL
SCALE: 1/4" = 1'-0"



3 TOWER A - WEST ROOF WELL
SCALE: 1/4" = 1'-0"



2 TOWER A ROOF - WEST SECTION 2
SCALE: 1/4" = 1'-0"



1 TOWER A ROOF - WEST SECTION 1
SCALE: 1/4" = 1'-0"

NUMBERED NOTES:

1 EXHAUST FAN TERMINATIONS TO BE LOCATED 1'-0" ABOVE MECHANICAL ROOM CEILING.

Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
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Provo, UT 84604

Landscape Architect
EPG Design
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Friday Group
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Holmes
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Seattle, WA 98104

Fire Protection Engineer
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Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O:
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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L	2/5/2025	ASI 6.1

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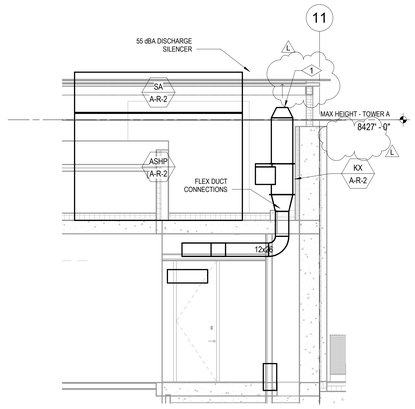
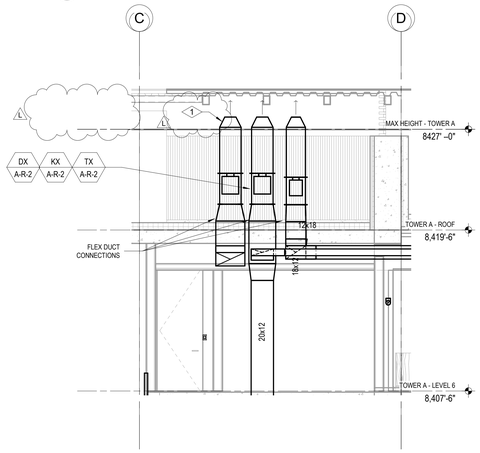
MECHANICAL ROOFTOP VIEWS - TOWER A

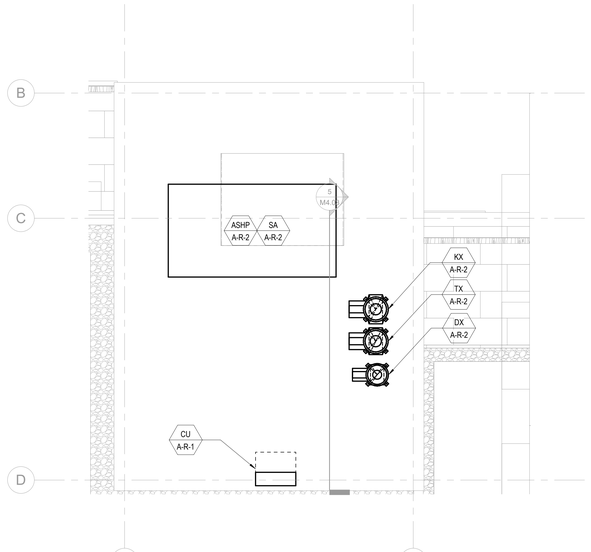
M4.03



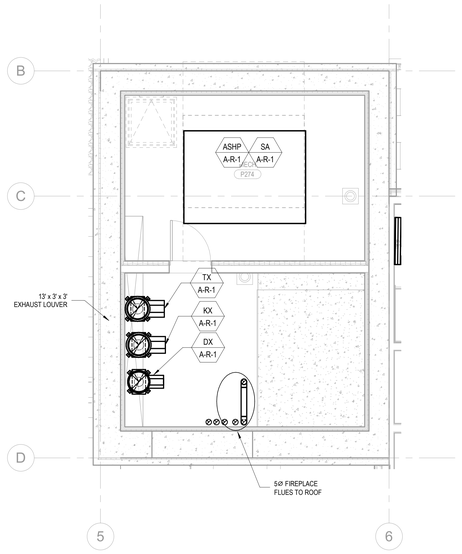
6 TOWER A ROOF - EAST SECTION 2
SCALE: 1/4" = 1'-0"



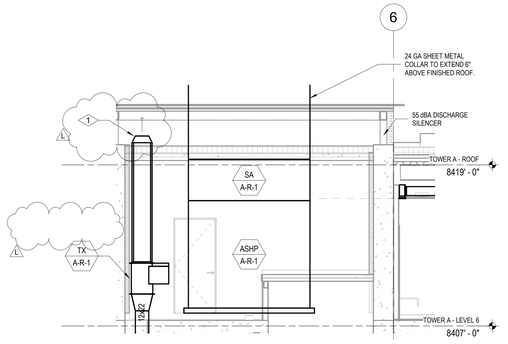
5 TOWER A ROOF - EAST SECTION 1
SCALE: 1/4" = 1'-0"



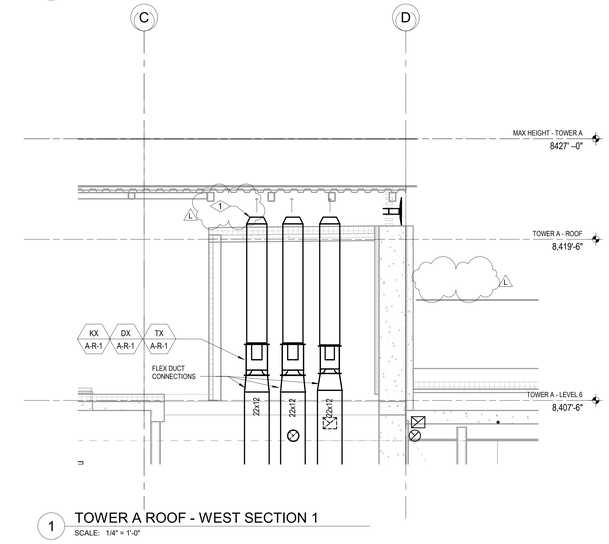
7 TOWER A - EAST ROOF WELL
SCALE: 1/4" = 1'-0"



3 TOWER A - WEST ROOF WELL
SCALE: 1/4" = 1'-0"



2 TOWER A ROOF - WEST SECTION 2
SCALE: 1/4" = 1'-0"



1 TOWER A ROOF - WEST SECTION 1
SCALE: 1/4" = 1'-0"

NUMBERED NOTES:

1 EXHAUST FAN TERMINATIONS TO BE LOCATED 1'-0" ABOVE MECHANICAL ROOM CEILING.

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O:
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
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revisions:

no.	date	by
L	2/5/2025	ASI 6.1

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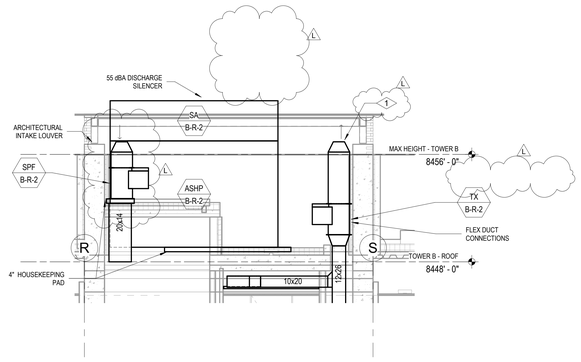
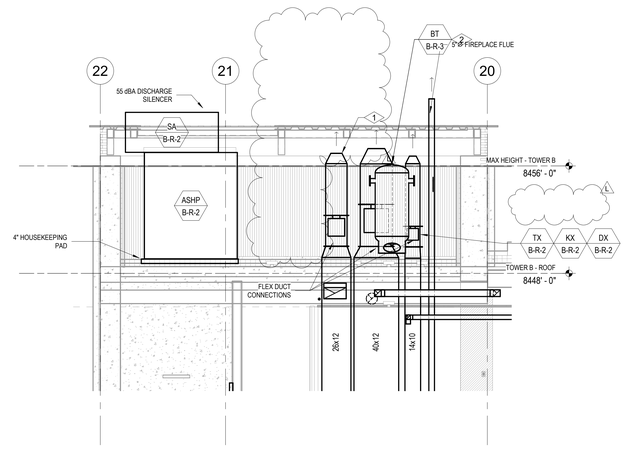
5/31/2024

MECHANICAL ROOFTOP VIEWS - TOWER A

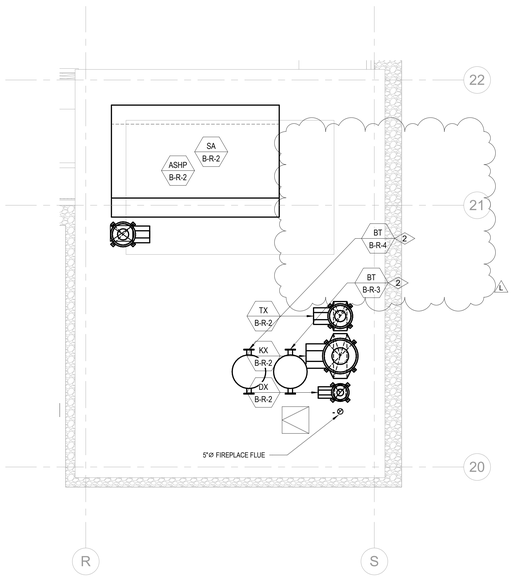
M4.03



6 TOWER B ROOF - SOUTH SECTION 2
SCALE: 1/4" = 1'-0"



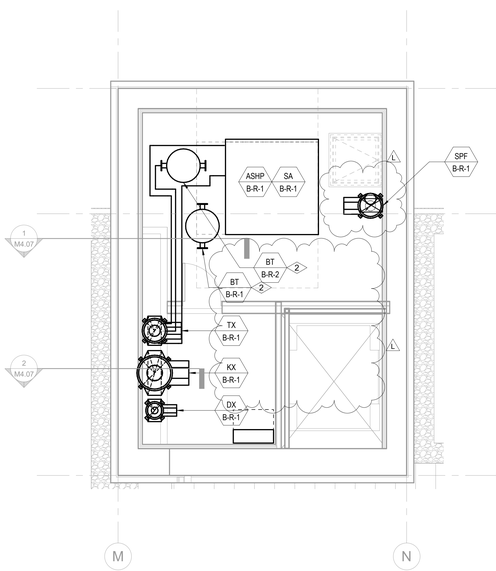
5 TOWER B ROOF - SOUTH SECTION 1
SCALE: 1/4" = 1'-0"



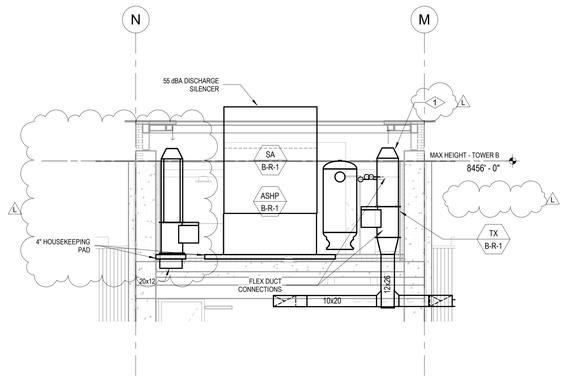
4 TOWER B - SOUTH ROOF WELL
SCALE: 1/4" = 1'-0"

NUMBERED NOTES:

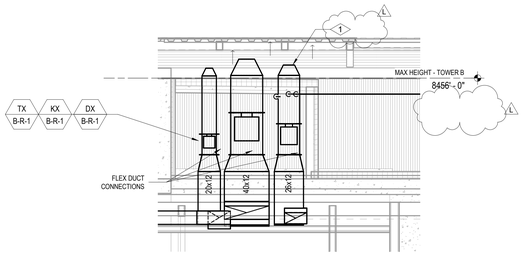
1 EXHAUST FAN TERMINATIONS TO BE LOCATED 1'-0" ABOVE MECHANICAL ROOM CEILING.
2 PROVIDE 4" HOUSEKEEPING PAD.



3 TOWER B - NORTH ROOF WELL
SCALE: 1/4" = 1'-0"



2 TOWER B ROOF - NORTH SECTION 2
SCALE: 1/4" = 1'-0"



1 TOWER B ROOF - NORTH SECTION 1
SCALE: 1/4" = 1'-0"

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
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Provo, UT 84604

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88 Mainelli Road
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Westborough, MA 01581

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Seattle, WA 98101

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O-
1319 SE MLK Blvd, Suite 210
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RDH
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2144 Westlake Ave N, Suite F
Seattle, WA 98109

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1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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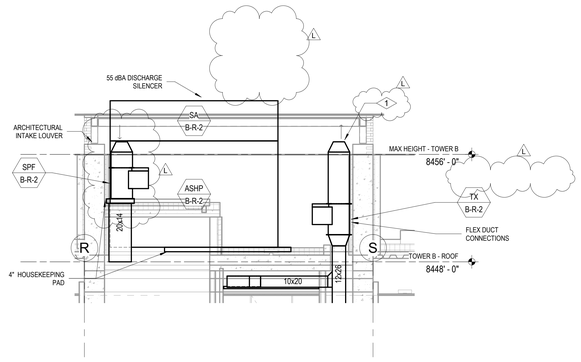
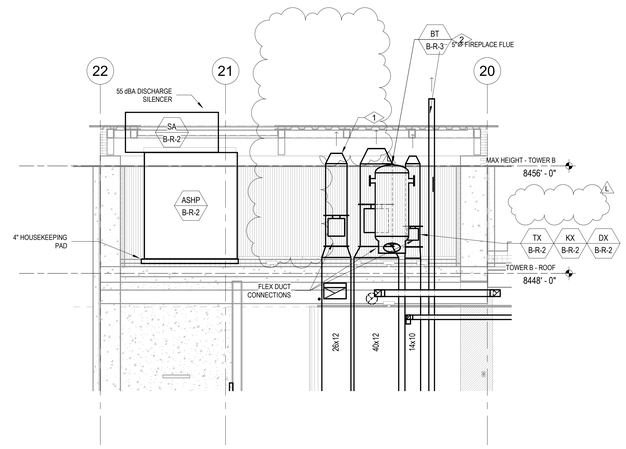
5/31/2024

MECHANICAL ROOFTOP VIEWS - TOWER B

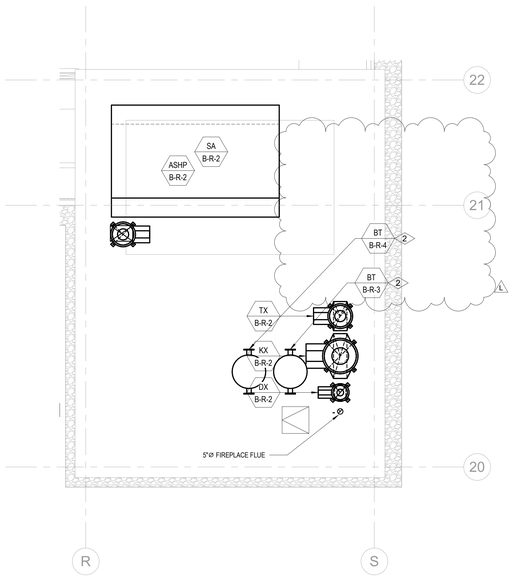
M4.04



6 TOWER B ROOF - SOUTH SECTION 2
SCALE: 1/4" = 1'-0"



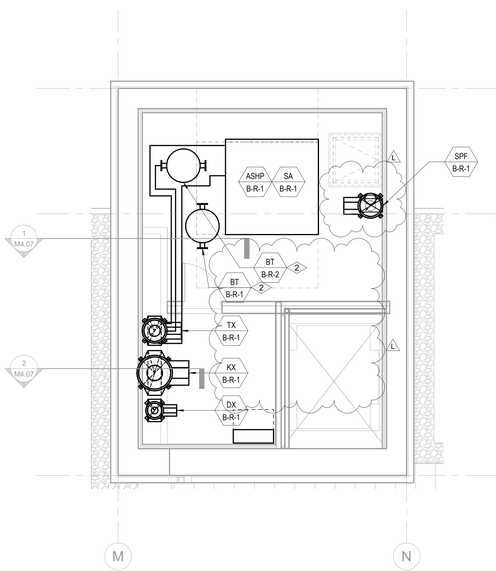
5 TOWER B ROOF - SOUTH SECTION 1
SCALE: 1/4" = 1'-0"



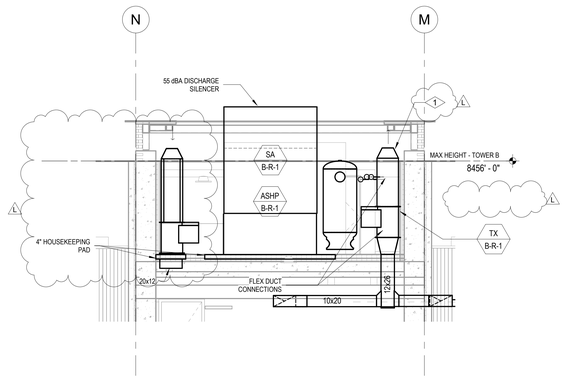
4 TOWER B - SOUTH ROOF WELL
SCALE: 1/4" = 1'-0"

NUMBERED NOTES:

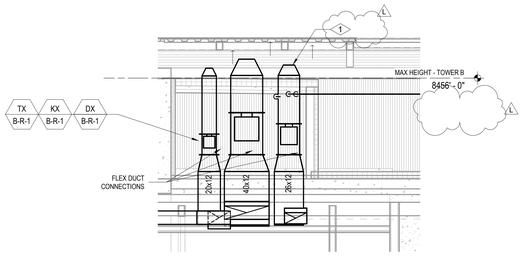
1 EXHAUST FAN TERMINATIONS TO BE LOCATED 1'-0" ABOVE MECHANICAL ROOM CEILING.
2 PROVIDE 4" HOUSEKEEPING PAD.



3 TOWER B - NORTH ROOF WELL
SCALE: 1/4" = 1'-0"



2 TOWER B ROOF - NORTH SECTION 2
SCALE: 1/4" = 1'-0"



1 TOWER B ROOF - NORTH SECTION 1
SCALE: 1/4" = 1'-0"

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
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PO Box 980022
Park City, Utah 84098

Pool Consultant
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Westborough, MA 01581

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Bothell, WA 98011

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Magnusson Klemencic Associates
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Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

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RDH
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Seattle, WA 98103

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Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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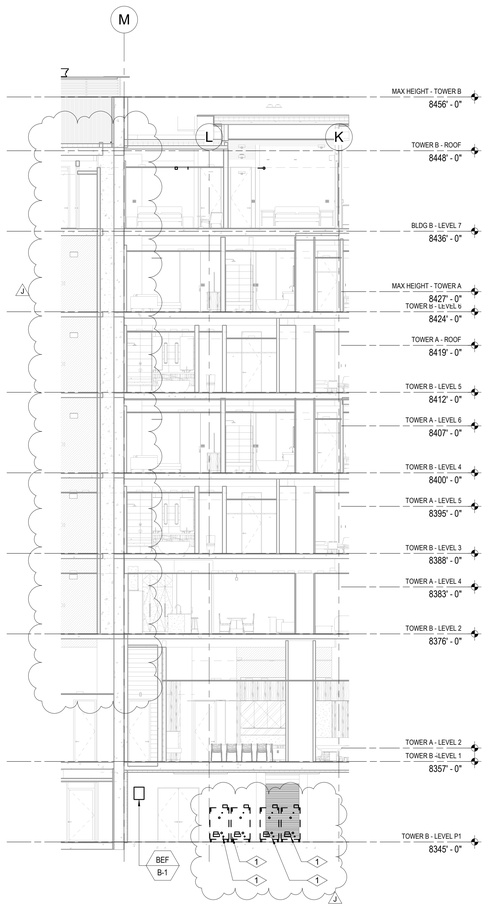
5/31/2024

MECHANICAL ROOFTOP VIEWS - TOWER B

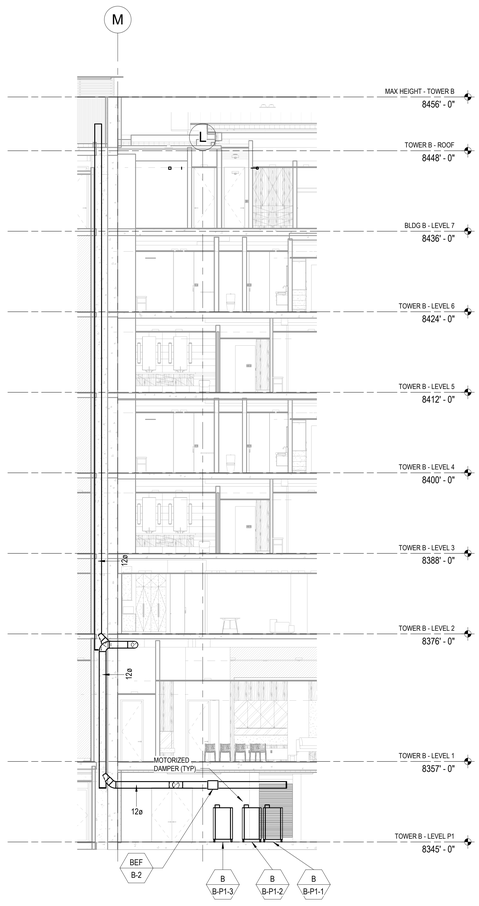
M4.04

NUMBERED NOTES:

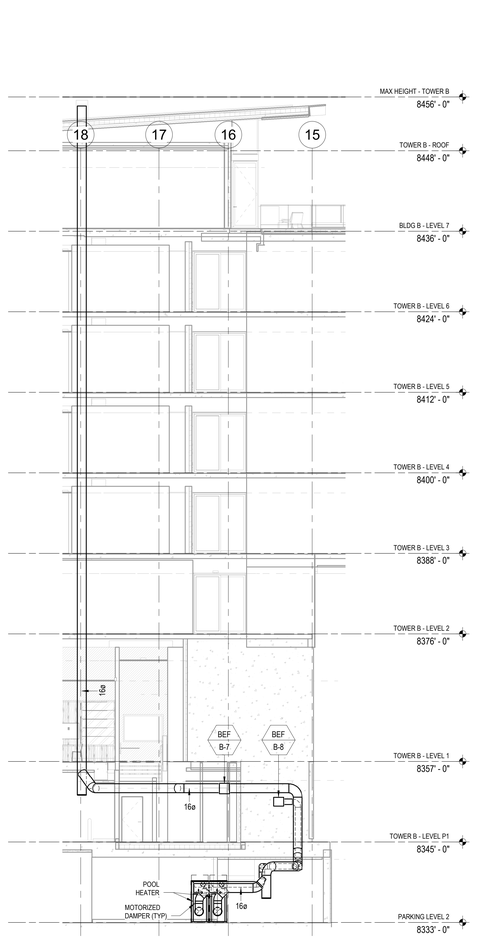
1 FUTURE BOILER FOR RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN BUILD BY OTHERS



1 SECTION - TOWER B - GAS-FIRED SNOWMELT BOILER AIR INTAKE AND VENT
SCALE: 1/8" = 1'-0"



2 SECTION - TOWER B - GAS-FIRED HEATING BOILER AIR INTAKE AND VENT
SCALE: 1/8" = 1'-0"



3 SECTION - TOWER B - GAS-FIRED POOL HEATER AIR INTAKE AND VENT
SCALE: 1/8" = 1'-0"

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
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6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

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Magnuson Klemencic Associates
1301 5th Ave, Suite 3200
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Lighting Designer
Oₓ
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
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Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
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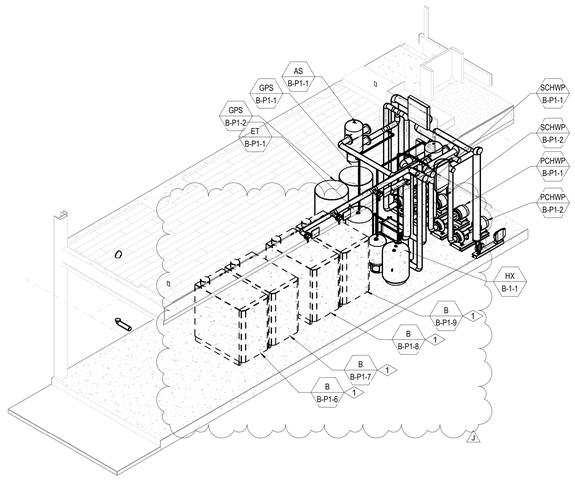
IFC Set 3 of 3
5/31/2024

MECHANICAL SECTIONS - GAS-FIRED BOILER VENT

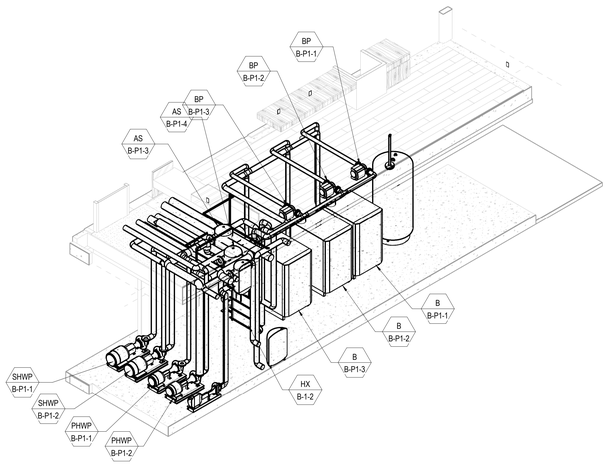
M4.07

NUMBERED NOTES:

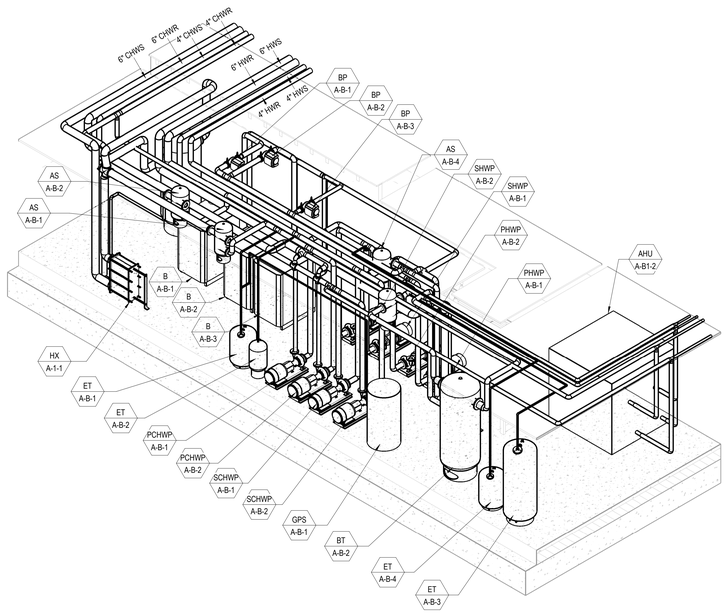
1 FUTURE BOILER FOR RADIANT HYDRONIC SNOWMELT SYSTEM TO BE DESIGN BUILD BY OTHERS



3 TOWER B - PARKING LEVEL 1 BOILER ROOM ISOMETRIC 2
SCALE:



2 TOWER B - PARKING LEVEL 1 BOILER ROOM ISOMETRIC 1
SCALE:



1 TOWER A - LEVEL A BOILER ROOM ISOMETRIC
SCALE:

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206.624.5670 olsonkundig.com

project:
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

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2	5/31/2024	IFC 3

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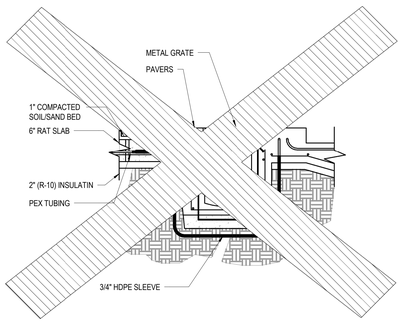
5/31/2024

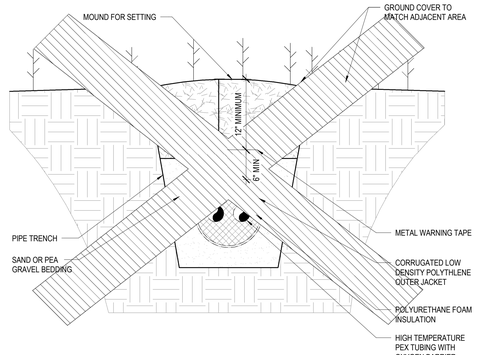
MECHANICAL BOILER ROOM ISOMETRICS

M4.08

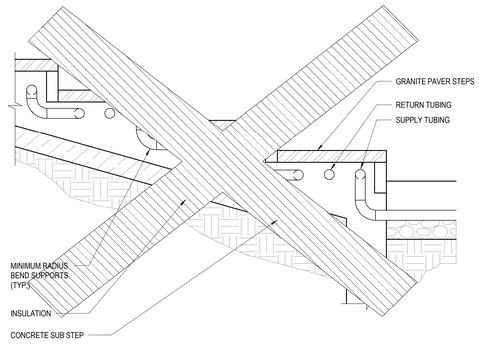
NOTE:
REFER TO ARCHITECHTURAL DRAWINGS FOR
PAVING/GRADING CONSTRUCTION MATERIALS



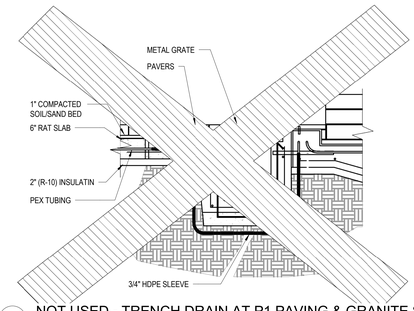
11 NOT USED - TRENCH DRAIN AT P4 PAVING & CONCRETE STAIR
SCALE: NTS



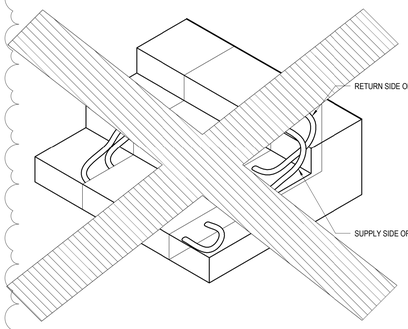
7 NOT USED - PRE- INSULATED SUPPLY AND RETURN PIPING
SCALE: NTS



6 NOT USED - STAIR STEP SNOWMELT TUBING SECTION
SCALE: NTS

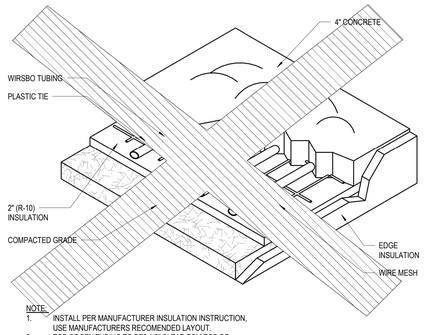


3 NOT USED - TRENCH DRAIN AT P1 PAVING & GRANITE STAIR
SCALE: NTS



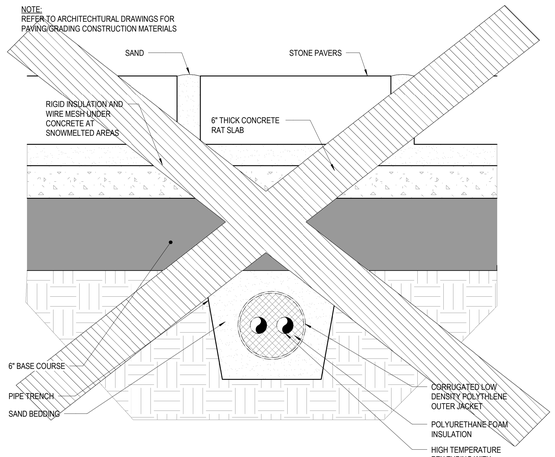
NOTE: INSTALL PER MANUFACTURER INSULATION INSTRUCTION,
USE MANUFACTURERS RECOMENDED LAYOUT.

10 NOT USED - STAIR SNOWMELT DETAIL
SCALE: NTS

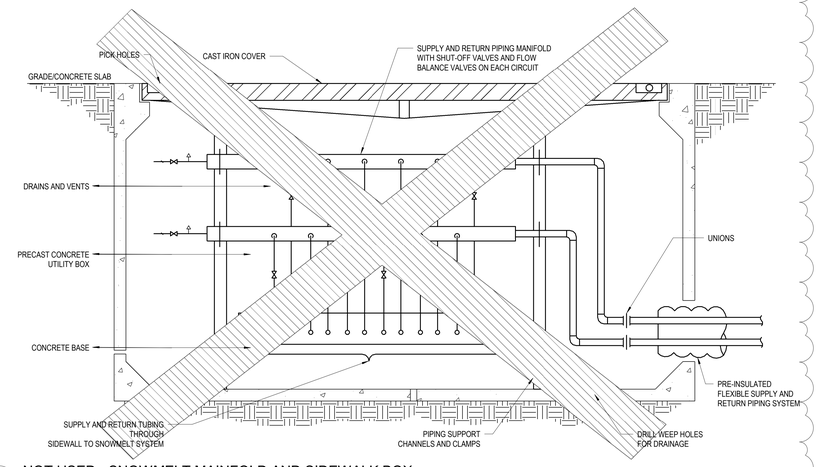


NOTE:
1. INSTALL PER MANUFACTURER INSULATION INSTRUCTION,
USE MANUFACTURERS RECOMENDED LAYOUT.
2. TOP OF PEX TUBING TO BE2 1/2" CLEAR FOM TOP OF
CONCRETE TO ALLOW FOR 2" SAW CUT PATTERN.

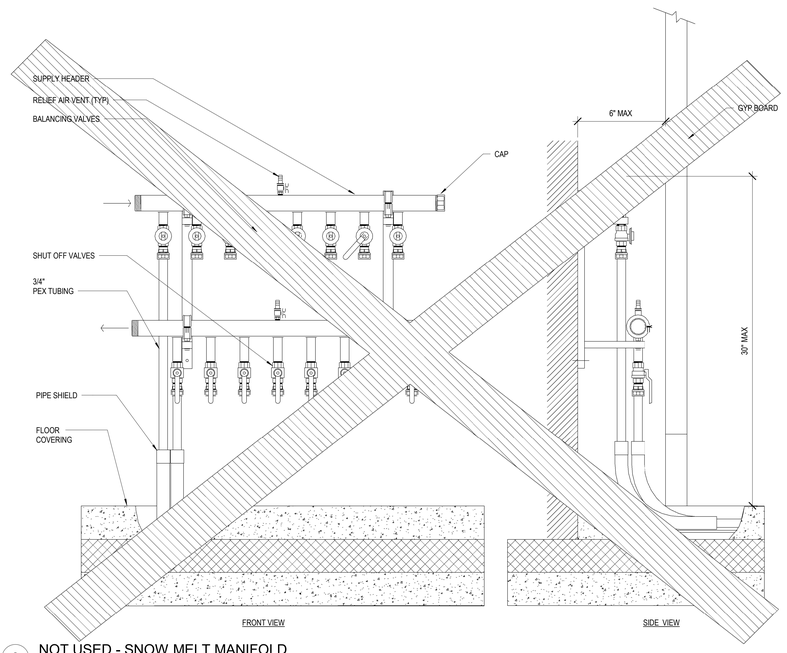
9 NOT USED - SNOWMELT UNDER CONCRETE
SCALE: NTS



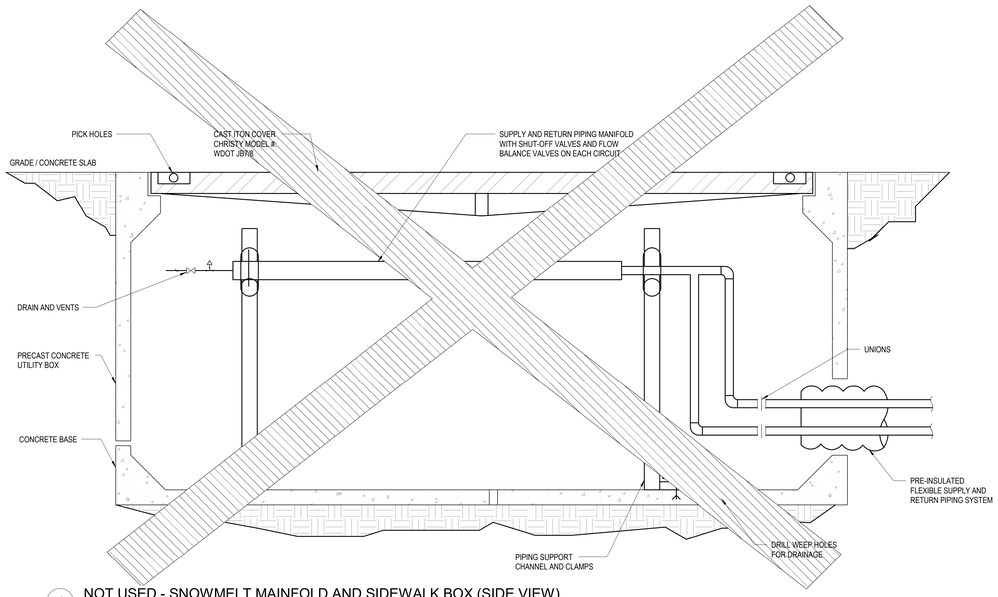
5 NOT USED - PRE - INSULATED SUPPLY AND RETURN PIPING WITH STONE PAVERS
SCALE: NTS



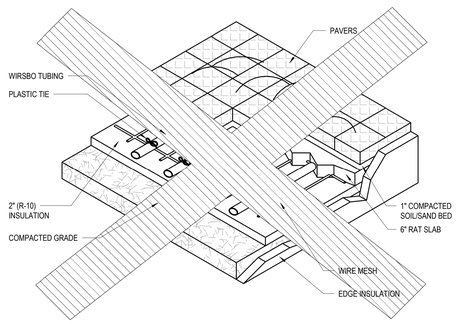
2 NOT USED - SNOWMELT MAINFOLD AND SIDEWALK BOX
SCALE: NTS



8 NOT USED - SNOW MELT MANIFOLD
SCALE: NTS



4 NOT USED - SNOWMELT MAINFOLD AND SIDEWALK BOX (SIDE VIEW)
SCALE: NTS



NOTE: INSTALL PER MANUFACTURER INSULATION INSTRUCTION,
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1 NOT USED - SNOWMELT UNDER PAVERS
SCALE: NTS

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project:
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

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600 1st Avenue, Suite 200A
Seattle, WA 98104

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One Research Drive, Suite 305C
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19515 North Creek Parkway, Suite 304
Bothell, WA 98011

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Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

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Oi
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2101 N 34th St
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Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
date 5/31/2024

revisions:

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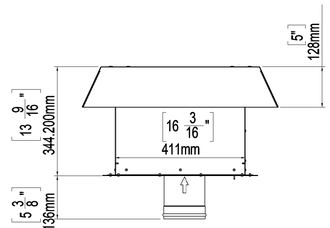
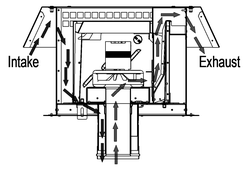
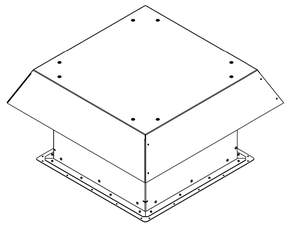
J	01/10/2025	ASI 6

IFC Set 3 of 3
5/31/2024

MECHANICAL DETAILS
M5.05

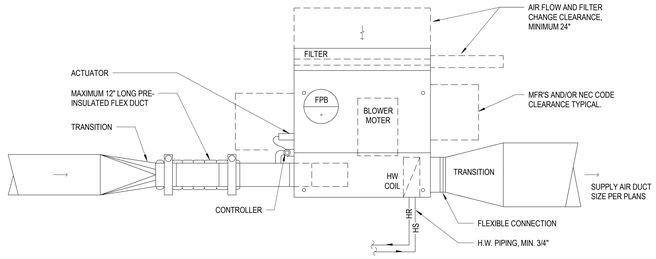




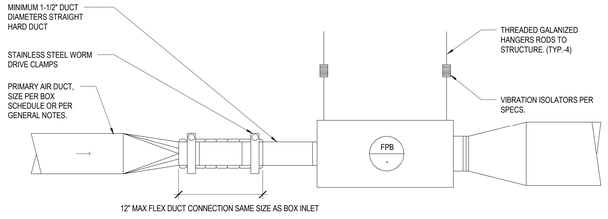


7 ORTAL EXHAUST FAN CONFIGURATION
SCALE: NTS

DESIGN NOTES:
1. COORDINATE THE SIZING OF THE BOX INLET DUCT. SOME GENERAL NOTES HAVE SOME VAV BOX SCHEDULES HAVE SIZING INFORMATION. SOME PREVIOUS PROJECTS HAVE HAD DISCREPANCIES AMONG THESE ITEMS. IN GENERAL, THIS INLET DUCT SHOULD MATCH VAV BOX INLET CONNECTION SIZE; HOWEVER, IF THE RUNOUT IS MORE THAN SAY 10 FEET LONG AND/OR HAS MULTIPLE ELLS IN THE RUNOUT. THEN THIS DUCT SIZE SHOULD BE INCREASED BY TWO INCHES. THIS REQUIREMENT NEEDS TO SHOWN CLEARLY ON THE DOCUMENTS.
2. FILTER IS REQUIRED BY MECHANICAL CODE. BE SURE TO SCHEDULE IT BY NOTE IN THE FAN POWERED BOX SCHEDULE OR IN THE SPECS.
3. CONSIDER WHEATHER A RA PLENUM IS NEEDED UPSTREAM OF THE FILTER FOR NOISE ATTENUATION. IT SHOULD BE LINED IF ALLOWED BY CODE; AND IT IS NOT ALLOWED FOR MOST LOCATIONS IN A HOSPITAL. FOR AN MOB PROJECT LINER SHOULD BE OKAY AND IS RECOMMENDED.
4. HW COIL: BE SURE SCHEDULED BOX SHOWS THIS COIL ON THE DISCHARGE SIDE OF THE FAN. NOTE THAT THE HEATING COIL HAS TO HEAT THE MIXTURE OF THE FAN RA FROM THE PLENUM AND THE 55F MINIMUM SACFM FROM THE VAV VALVE.



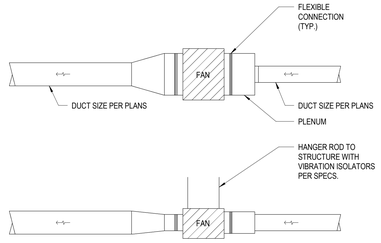
PLAN VIEW



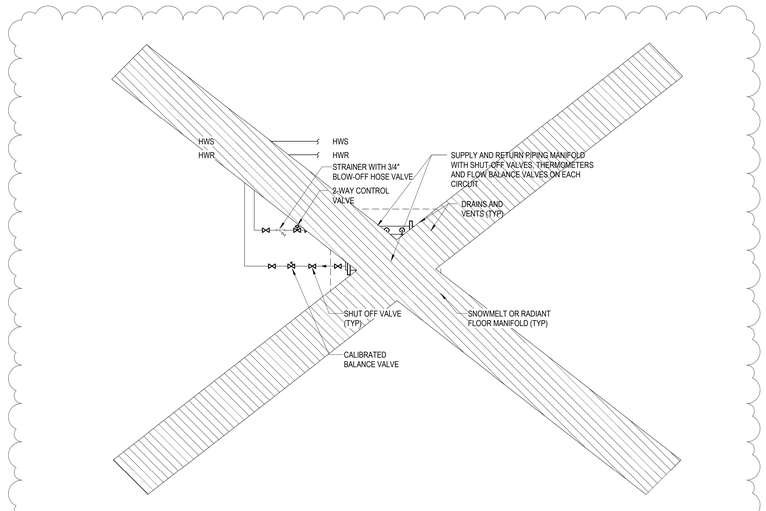
ELEVATION VIEW

4 FAN POWERED BOX WITH HEATING WATER COIL
SCALE: NTS

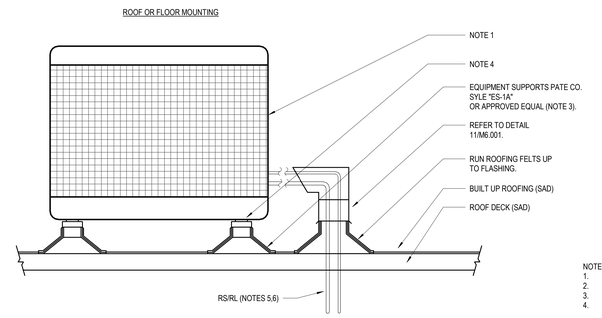
DESIGNER NOTES- NOT FOR PUBLICATION:
1. FAN ACCESSORIES SHOULD BE IN FAN SCHEDULE, NOT IN THIS DETAIL.
2. THIS DETAIL CAN BE ADAPTED TO OTHER SITUATIONS. EDIT AS REQUIRED.
3. THIS DETAIL IS FOR A SMALL CABINET FAN, SAY 200 TO 3000 CFM, WITH RECTANGULAR INLET; FORWARD CURVED FAN SUITABLE FOR 1" ESP. DO NOT USE THIS DETAIL FOR VANE AXIAL, MIXED FLOW, OR IN-LINE PROPELLER FANS.
4. THE LARGER FANS MAY HAVE DUAL FAN OUTLETS. IF SO, USE A PANTS LEG DISCHARGE DUCT DESIGN ON THE FLOOR PLAN. EDIT AS REQUIRED.

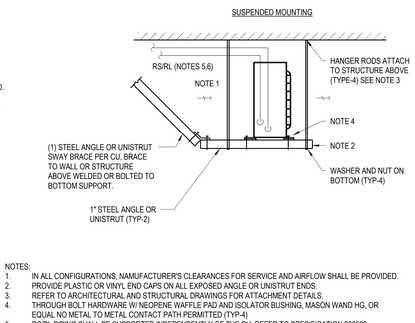


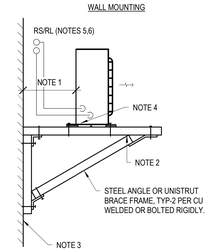
3 EXHAUST FAN-IN-LINE CABINET
SCALE: NTS



6 NOT USED - SNOWMELT LOOP CONNECTION
SCALE: NTS

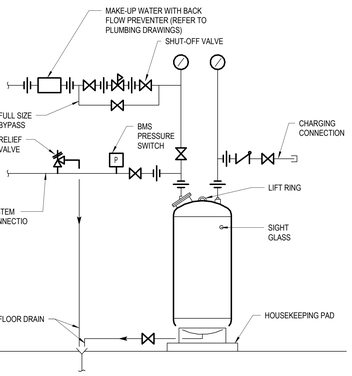






NOTES:
1. IN ALL CONFIGURATIONS, NAMUFACTURER'S CLEARANCES FOR SERVICE AND AIRFLOW SHALL BE PROVIDED.
2. PROVIDE PLASTIC OR VINYL END CAPS ON ALL EXPOSED ANGLE OR UNISTRUT ENDS.
3. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ATTACHMENT DETAILS.
4. THROUGH BOLT HARDWARE W/ NEOPENE WAFFLE PAD AND ISOLATOR BUSHING, MASON WAND HG, OR EQUAL NO METAL TO METAL CONTACT PATH PERMITTED (TYP-4)
5. RS/RL PIPING SHALL BE SUPPORTED INDEPENDENTLY OF THE CU. REFER TO SPECIFICATION 230529.
6. INSULATED REFRIGERANT LINES TO DX EVAPORATOR COIL (FCU). PIPE SIZES SHALL BE DETERMINED BY SPLIT SYSTEM MANUFACTURER AND SHALL ACCOUNT FOR EXACT ROUTING LENGTH NEEDED IN FIELD.

2 SPLIT-SYSTEM CONDENSER MOUNTING DETAILS
SCALE: NTS



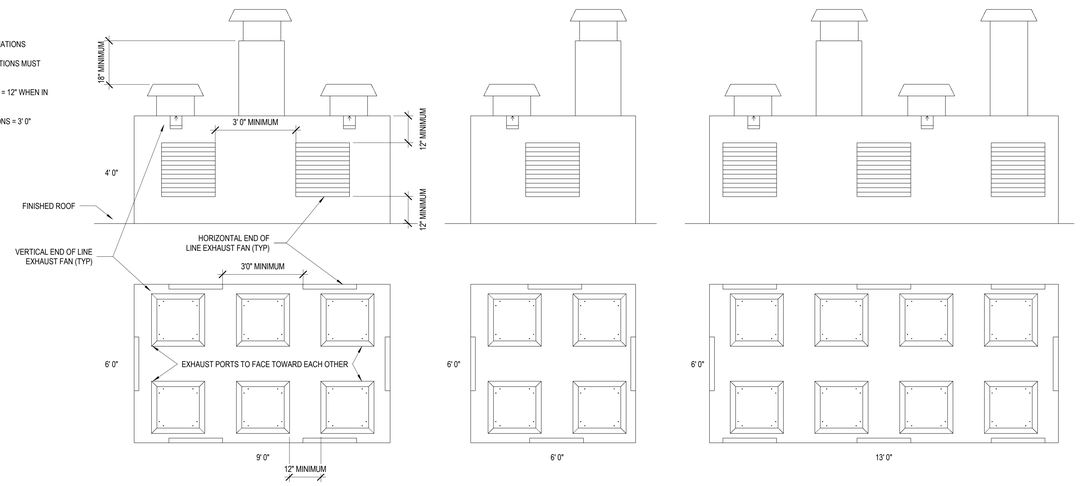
5 VERTICAL EXPANSION TANK
SCALE: NTS

(3) TERMINATION EXAMPLES - FOR 5-16 TERMINATIONS

FOR MINIMAL FOOTPRINT - VERTICAL TERMINATIONS MUST BE STAGGERED IN HEIGHT.

DISTANCE BETWEEN VERTICAL TERMINATIONS = 12" WHEN IN STAGGERED LAYOUT.

DISTANCE BETWEEN HORIZONTAL TERMINATIONS = 3' 0"



7-12 FLUE CONFIGURATION

5-8 FLUE CONFIGURATION

9-16 FLUE CONFIGURATION

1 FIREPLACE FLUE TERMINATION DETAIL
SCALE: NTS

Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206.624.5670 olsonkundig.com

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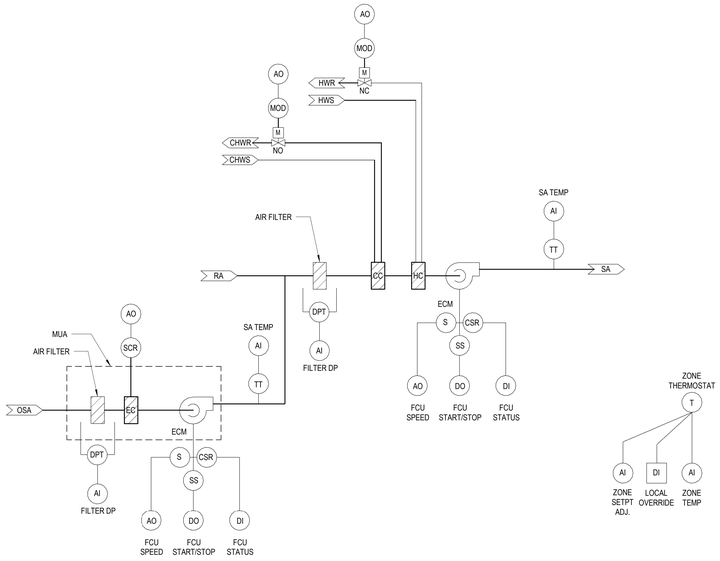
M5.07



3 FAN COIL UNIT DIAGRAM - COOLING AND HEATING MUA

SCALE: NTS

SEQUENCE OF OPERATIONS

A. SYSTEM OFF:

1. FCU SUPPLY FAN OFF.
2. MUA SUPPLY FAN OFF.
3. CHILLED WATER CONTROL VALVE CLOSED.
4. HEATING WATER CONTROL VALVE CLOSED.
5. ELECTRIC HEATING COIL DE-ENERGIZED.
6. CONTROL LOOPS INACTIVE.

B. SYSTEM START:

1. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULE.
2. OPERATOR ENTERED COMMAND AT THE BMS.
3. LOCAL SWITCH.
4. LOCAL TEMPERATURE SENSOR.

C. SYSTEM OPERATION:

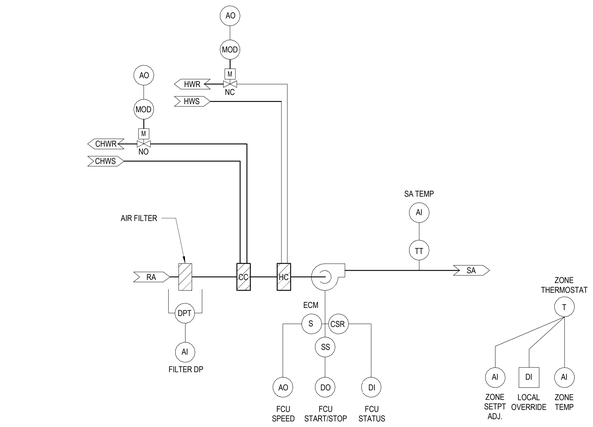
1. THE FCU SUPPLY FAN SHALL RUN.
2. THE MUA SUPPLY FAN SHALL BE INTERLOCKED RUN WITH FCU SUPPLY FAN AT MINIMUM AIRFLOW.
3. COOLING:
   ON A CALL FOR COOLING, THE COOLING COIL VALVE WILL BEGIN TO MODULATE OPEN. AS THE COOLING DEMAND INCREASES, THE VALVE WILL CONTINUE TO OPEN UNTIL THE DISCHARGE AIR TEMPERATURE REACHES 52°F (ADJ). ON CONTINUED CALL FOR COOLING, THE FAN WILL BEGIN TO MODULATE TOWARD THE MAXIMUM COOLING FAN AIRFLOW AS THE CHILLED WATER VALVE CONTINUES TO MODULATE OPEN MAINTAINING A 52°F (ADJ) DISCHARGE AIR TEMPERATURE. THIS PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE COOLING MAXIMUM AIRFLOW AND THE CHILLED WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN COOLING DEMAND, THE SEQUENCE WILL REVERSE.
4. DEAD BAND:
   WITH NO DEMAND IN THE SPACE, THERE WILL BE NO CALL FOR COOLING OR HEATING. THE FAN WILL BE AT MINIMUM AIRFLOW. THE HEATING COIL VALVE AND COOLING COIL VALVE WILL BE OFF.
5. HEATING:
   ON A CALL FOR HEATING, THE HEATING COIL VALVE WILL BEGIN TO MODULATE OPEN. AS THE HEATING DEMAND INCREASES, THE VALVE WILL CONTINUE TO MODULATE OPEN UNTIL THE DISCHARGE AIR TEMPERATURE REACHES 90°F (ADJ). ON CONTINUED CALL FOR HEATING, THE FAN BEGINS TO MODULATE FROM DEAD BAND TOWARDS THE MAXIMUM HEATING FAN AIRFLOW. THIS PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE HEATING MAXIMUM AIRFLOW AND THE HOT WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN HEATING DEMAND, THE SEQUENCE WILL REVERSE.
6. THE MUA ELECTRIC COIL SHALL MODULATE TO MAINTAIN MUA DISCHARGE AIR TEMPERATURE.
7. MUA UNIT NORMALLY OPERATE AT 200 CFM. INTERLOCK WITH RANGE HOOD AND INCREASE TO 750 CFM WHEN RANGE HOOD TURNED ON.

D. SYSTEM STOP:

1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON A PREPROGRAMMED SCHEDULE.
2. MANUAL OFF AT LOCAL SWITCH.
3. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

E. SETPOINTS:

1. SPACE TEMPERATURE 70°F HEATING AND 75°F COOLING. ALARM AT BMS AT +/- 2°F FROM SETPOINT.



2 FAN COIL UNIT DIAGRAM - COOLING AND HEATING

SCALE: NTS

SEQUENCE OF OPERATIONS

A. SYSTEM OFF:

1. SUPPLY FAN OFF.
2. CHILLED WATER CONTROL VALVE CLOSED.
3. HEATING WATER CONTROL VALVE CLOSED.
4. CONTROL LOOPS INACTIVE.

B. SYSTEM START:

1. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULE.
2. OPERATOR ENTERED COMMAND AT THE BMS.
3. LOCAL SWITCH.
4. LOCAL TEMPERATURE SENSOR.

C. SYSTEM OPERATION:

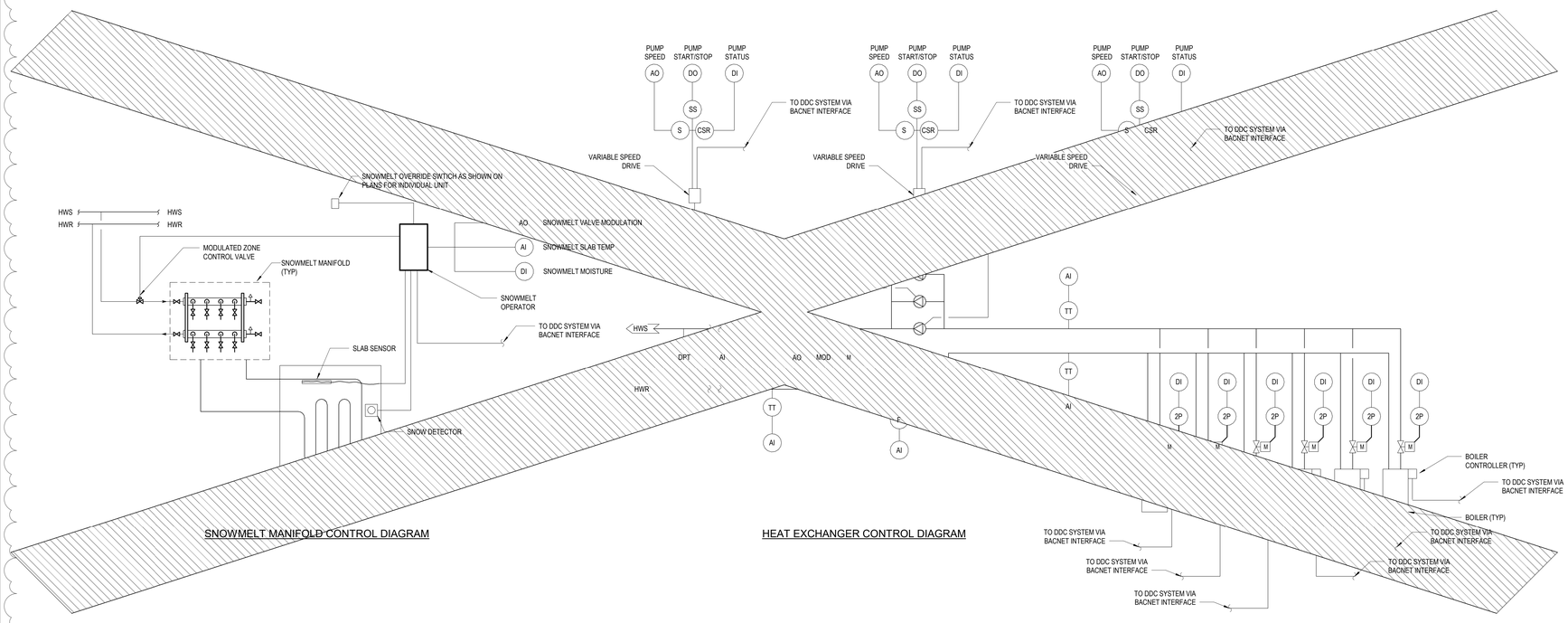
1. THE SUPPLY FAN SHALL RUN.
2. COOLING:
   ON A CALL FOR COOLING, THE COOLING COIL VALVE WILL BEGIN TO MODULATE OPEN. AS THE COOLING DEMAND INCREASES, THE VALVE WILL CONTINUE TO OPEN UNTIL THE DISCHARGE AIR TEMPERATURE REACHES 52°F (ADJ). ON CONTINUED CALL FOR COOLING, THE FAN WILL BEGIN TO MODULATE TOWARD THE MAXIMUM COOLING FAN AIRFLOW AS THE CHILLED WATER VALVE CONTINUES TO MODULATE OPEN MAINTAINING A 52°F (ADJ) DISCHARGE AIR TEMPERATURE. THIS PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE COOLING MAXIMUM AIRFLOW AND THE CHILLED WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN COOLING DEMAND, THE SEQUENCE WILL REVERSE.
3. DEAD BAND:
   WITH NO DEMAND IN THE SPACE, THERE WILL BE NO CALL FOR COOLING OR HEATING. THE FAN WILL BE AT MINIMUM AIRFLOW. The heating coil valve and cooling coil valve WILL BE OFF.
4. HEATING:
   ON A CALL FOR HEATING, THE HEATING COIL VALVE WILL BEGIN TO MODULATE OPEN. AS THE HEATING DEMAND INCREASES, THE VALVE WILL CONTINUE TO MODULATE OPEN UNTIL THE DISCHARGE AIR TEMPERATURE REACHES 90°F (ADJ). ON CONTINUED CALL FOR HEATING, THE FAN BEGINS TO MODULATE FROM DEAD BAND TOWARDS THE MAXIMUM HEATING FAN AIRFLOW. THIS PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE HEATING MAXIMUM AIRFLOW AND THE HOT WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN HEATING DEMAND, THE SEQUENCE WILL REVERSE.

D. SYSTEM STOP:

1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON A PREPROGRAMMED SCHEDULE.
2. MANUAL OFF AT LOCAL SWITCH.
3. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

E. SETPOINTS:

1. SPACE TEMPERATURE 70°F HEATING AND 75°F COOLING. ALARM AT BMS AT +/- 2°F FROM SETPOINT.



SEQUENCE OF OPERATIONS

A. GENERAL:

1. THE VARIABLE VOLUME SYSTEM IS DESIGNED TO PROVIDE GLYCOL HOT WATER TO SNOWMELT MANIFOLDS.
2. SOURCE WATER TEMPERATURES SHALL BE MAINTAINED BY THE HEATING WATER SYSTEM CONTROLS.

B. SYSTEM OPERATION:

1. SYSTEM SHALL BE ENABLED:
   a. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 35°F (ADJ.), AND THE HUMIDITY SENSOR IS ABOVE 80% RH, OR
   b. BY THE OPERATOR ENTERED COMMAND AT THE BMS, OR
   c. VIA MOISTURE AND TEMPERATURE SENSORS LOCATED FOR LOCAL SNOWMELT ZONE CONTROL.
2. ONCE ENABLED, SYSTEM SHALL REMAIN ENABLED FOR AT LEAST ONE HOUR (ADJ.).
3. SYSTEM SHALL BE DISABLED:
   a. WHEN THE PAVEMENT TEMPERATURE IS ABOVE 50°F AND AND HUMIDITY DROPS BELOW 50%, OR
   b. THE OUTSIDE AIR TEMPERATURE RISES ABOVE 40°F (ADJ.), OR
   c. BY THE OPERATOR ENTERED COMMAND AT THE BMS.

C. GHW DISTRIBUTION PUMP :

1. GLYCOL HEATING WATER DISTRIBUTION PUMP SHALL BE STARTED TO SUPPLY HEATING HOT WATER THROUGH THE SYSTEM UPON ACTIVATION BY THE SNOWMELT CONTROL SYSTEM. BMS SHALL PROVE OPERATION OF THE PUMP. UPON PUMP FAILURE, THE BMS SHALL ALARM. THE VARIABLE FREQUENCY DRIVE MODULATES PUMP SPEED TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE SETPOINT AS SENSED NEAR THE END OF THE MAIN PIPING RUN.

D. GHW TEMPERATURE CONTROL:

1. THE HEATING HOT WATER SYSTEM VALVE SHALL MODULATE TO MAINTAIN THE GHW SUPPLY TEMPERATURE OF 110°F (ADJ.) SETPOINT.

E. SNOWMELT ZONE CONTROL :

1. ONCE THE SNOWMELT SYSTEM IS ENABLED, HEAT IS APPLIED TO THE SNOWMELT SYSTEM THROUGH OPENING THE ZONE VALVE. THE CONTROL SHALL MAINTAIN THE SLAB TEMPERATUER ABOVE FREEZING. IF MOISTURE IS DETECTED, THE CONTROL SHALL START THE "MELTING MODE". IN THIS MODE THE CONTROL SHALL REGULATE THE HEAT SOURCE AND MODULATE THE ZONE VALVE TO MAINTAIN THE SLAB TEMPERATURE AT THE WARM-WEATHER CUTOFF SET POINT. IT SHALL REMAIN IN THIS MODE UNTIL NO MOISTURE IS PRESENT OR THE MINIMUM RUNTIME HAS ELAPSED, WHICHEVER IS LONGER.
2. MANUAL OVERRIDE SWITCH ON RESIDENTIAL UNIT: OVERRIDE SWITCH INSTALLED INSIDE THE UNIT WILL ACTIVATE THE DECK SNOWMELT ZONE IN THEIR RESPECTIVE UNIT AND OPEN THE ZONE CONTROL VALVE FOR A MINIMUM OF ONE (1) HOUR. THE ZONE CONTROL VALVE SHALL BE CLOSED WHEN THE SLAB TEMPERATURE IS MAINTAINED AND NO MOISTURE IS PRESENT.

1 NOT USED - SNOWMELT HOT WATER SYSTEM CONTROL DIAGRAM

SCALE: NTS

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
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Cloward H20
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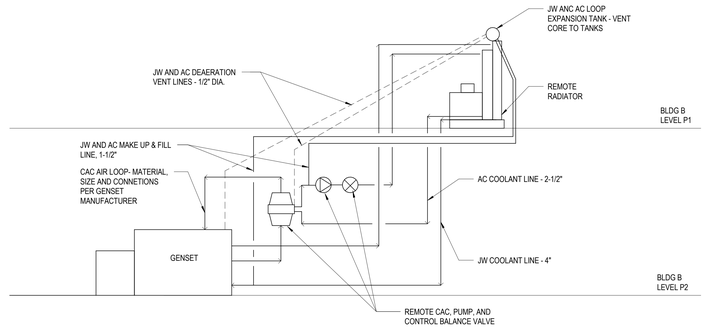
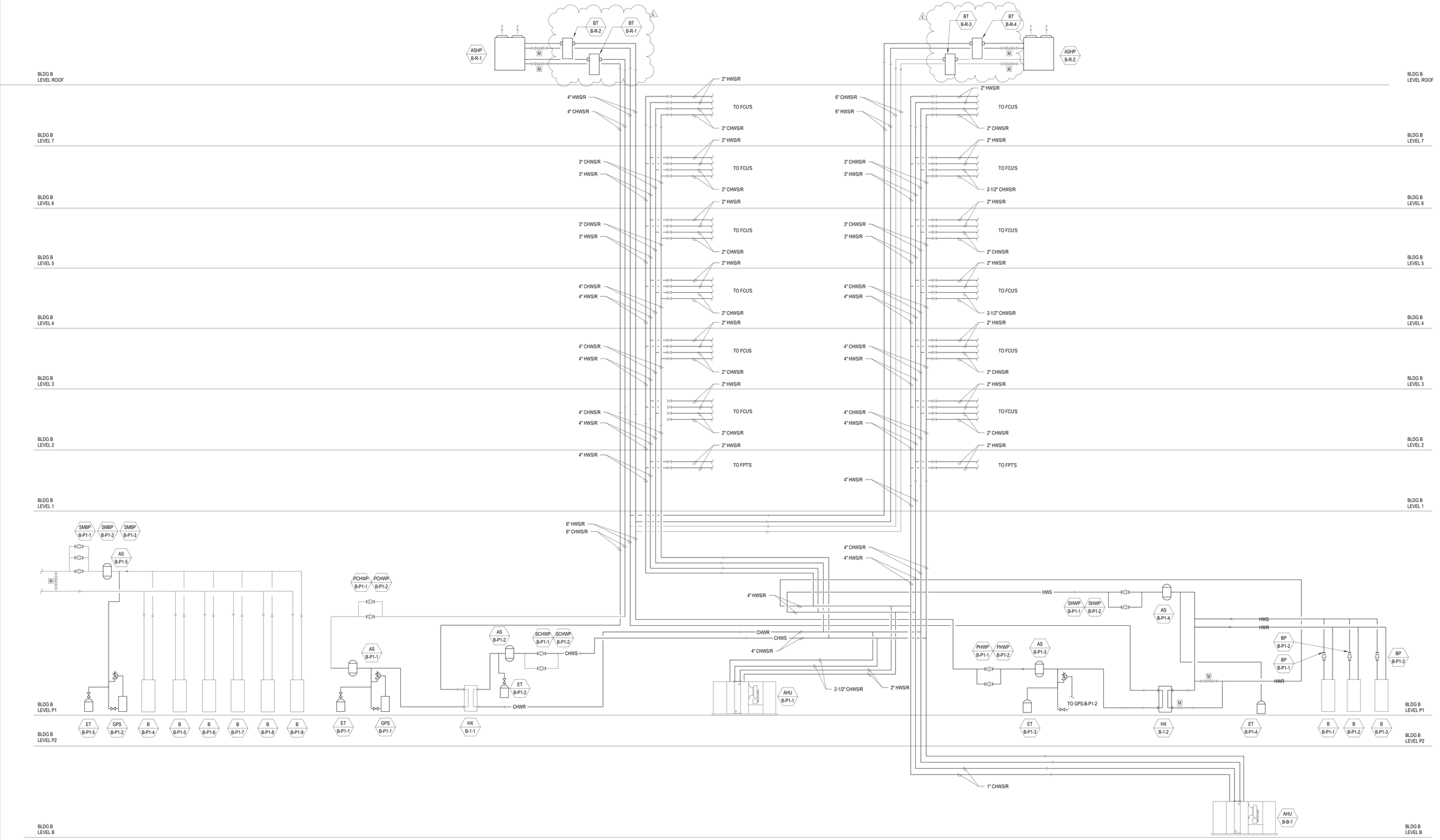
MECHANICAL CONTROL DIAGRAM

M5.10



2 MECHANICAL GENSET REMOTE RADIATOR RISER DIAGRAM - TOWER B

SCALE: NTS



1 MECHANICAL HYDRONIC RISER DIAGRAM - TOWER B

SCALE: NTS

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Olson Kundig
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Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

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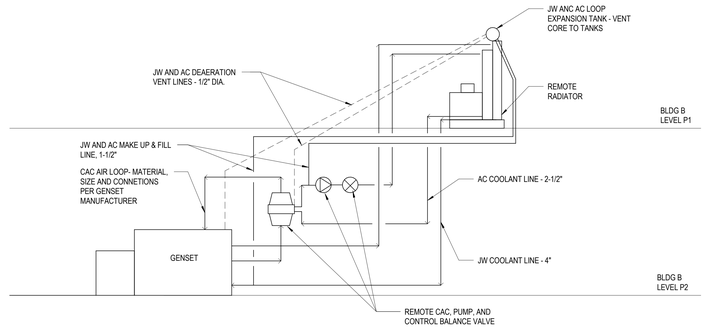
I	01/03/2025	ASI 6 old
1	5/17/2024	IFC 2

IFC Set 3 of 3
5/31/2024

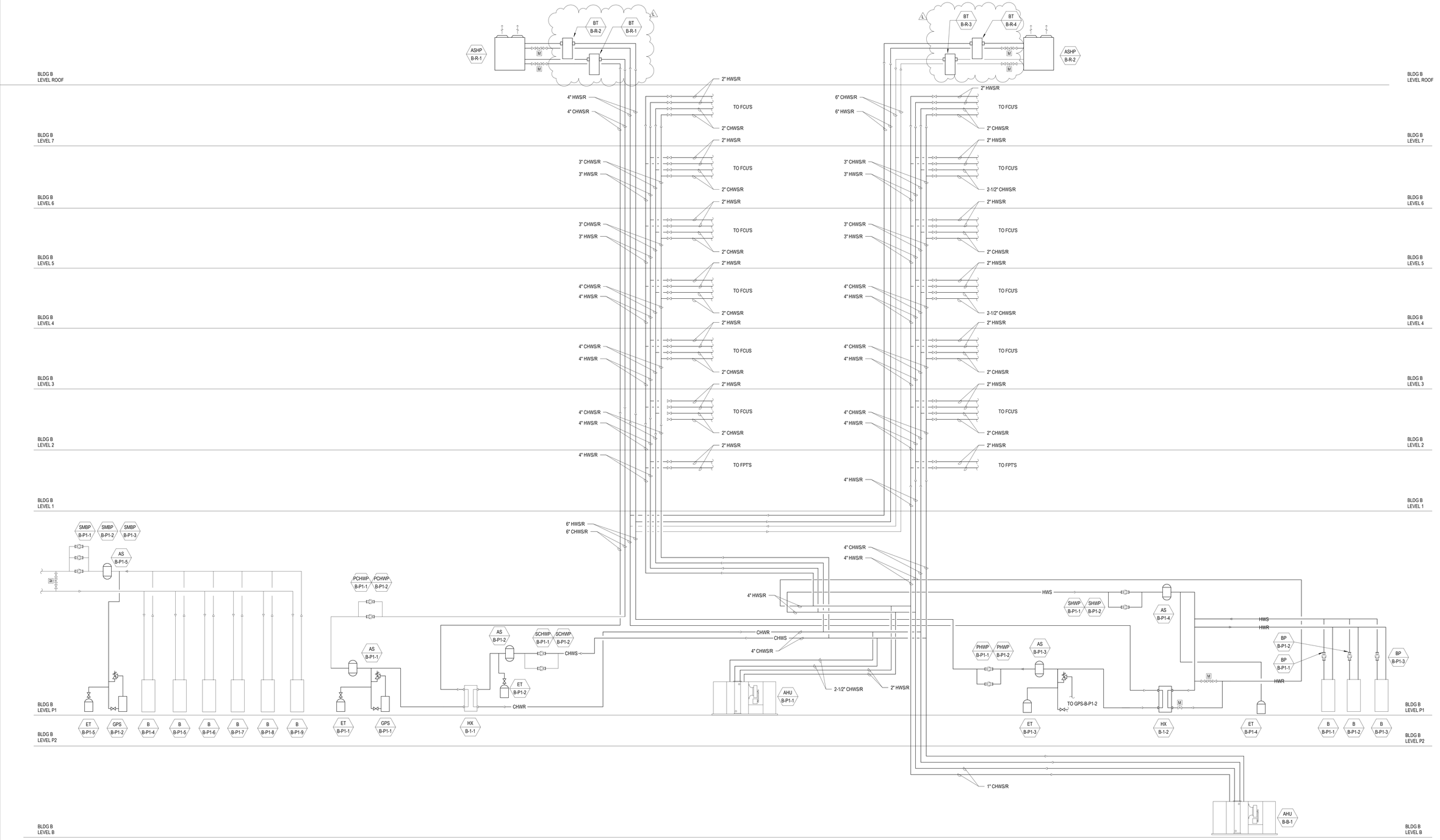
MECHANICAL HYDRONIC RISER DIAGRAM - TOWER B

M6.02B



2 MECHANICAL GENSET REMOTE RADIATOR RISER DIAGRAM - TOWER B

SCALE: NTS



1 MECHANICAL HYDRONIC RISER DIAGRAM - TOWER B

SCALE: NTS

Reserved for permit stamp

Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
job no.
date 5/31/2024

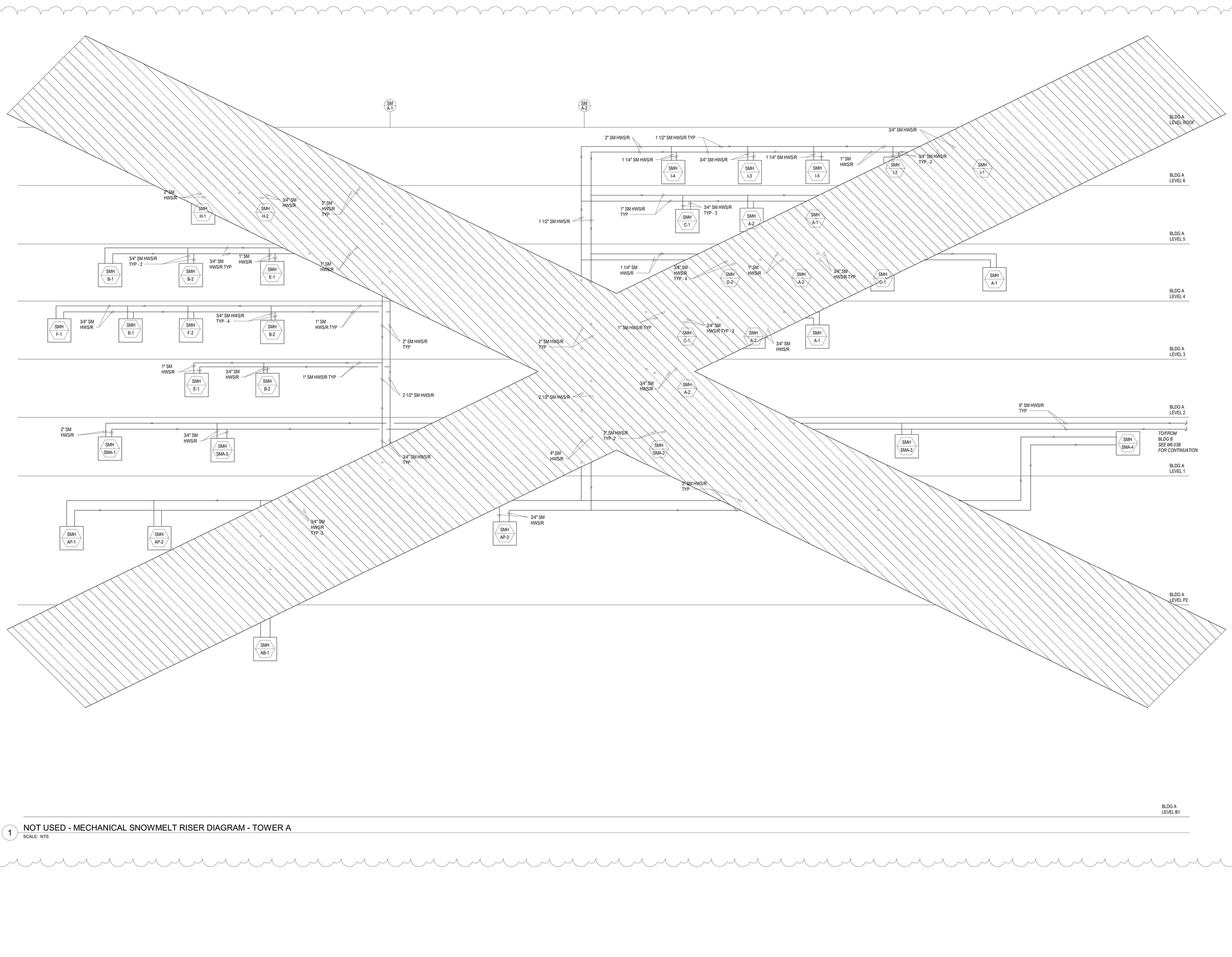
revisions:

no.	date	by
L	2/5/2025	ASI 6.1
I	01/03/2025	ASI 6 old
1	5/17/2024	IFC 2

IFC Set 3 of 3
5/31/2024

MECHANICAL HYDRONIC RISER DIAGRAM - TOWER B

M6.02B



1 NOT USED - MECHANICAL SNOWMELT RISER DIAGRAM - TOWER A

SCALE: NTS

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Olson Kundig

159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
8300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP

Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Oi
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

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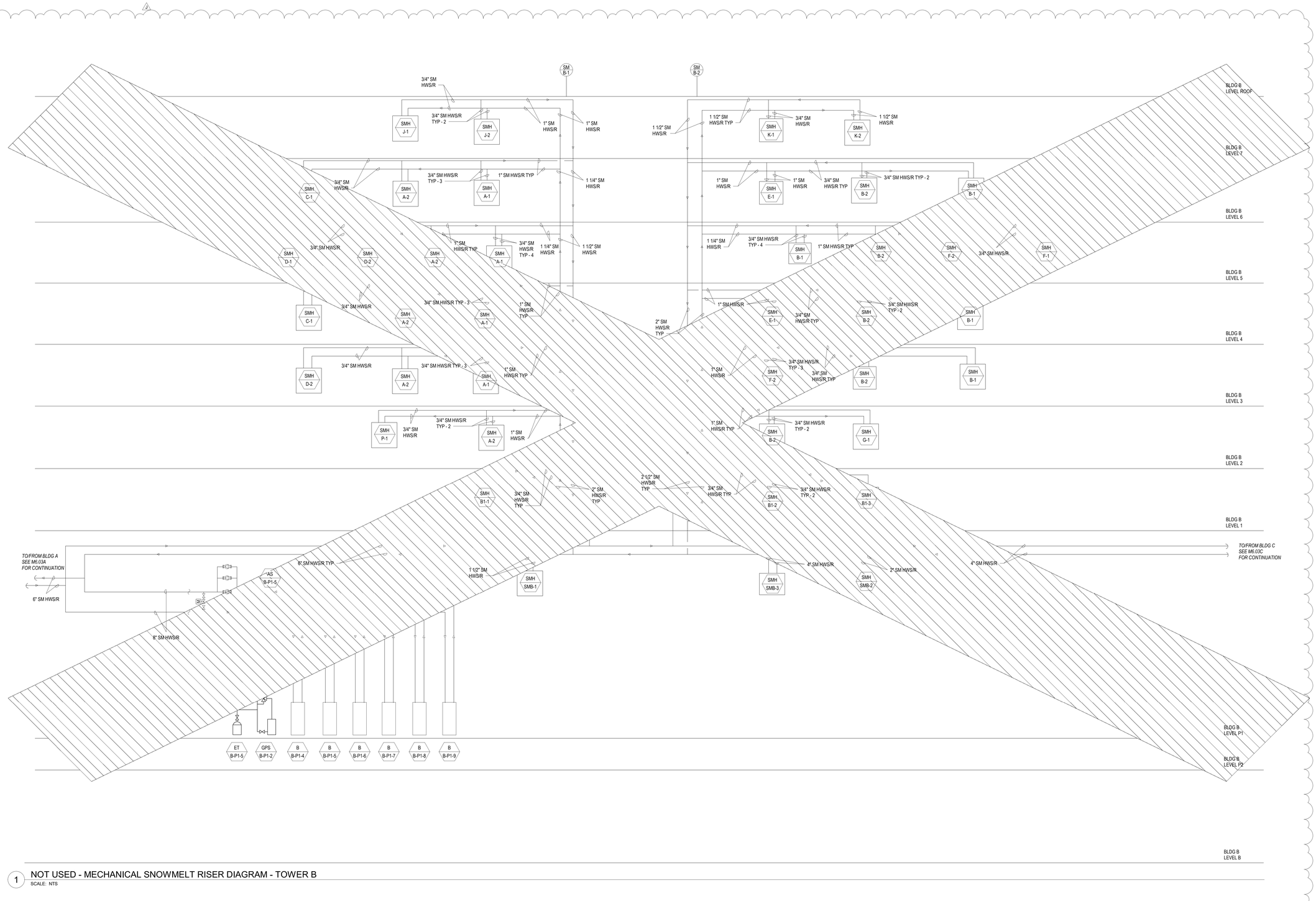
J	01/10/2025	ASI 6

IFC Set 3 of 3
5/31/2024

MECHANICAL SNOWMELT RISER DIAGRAM - TOWER A

M6.03A



1 NOT USED - MECHANICAL SNOWMELT RISER DIAGRAM - TOWER B

SCALE: NTS

Reserved for permit stamp

Olson Kundig

159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
+1 206 624 5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP

Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
Oi
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
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job no.
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no.	date	by
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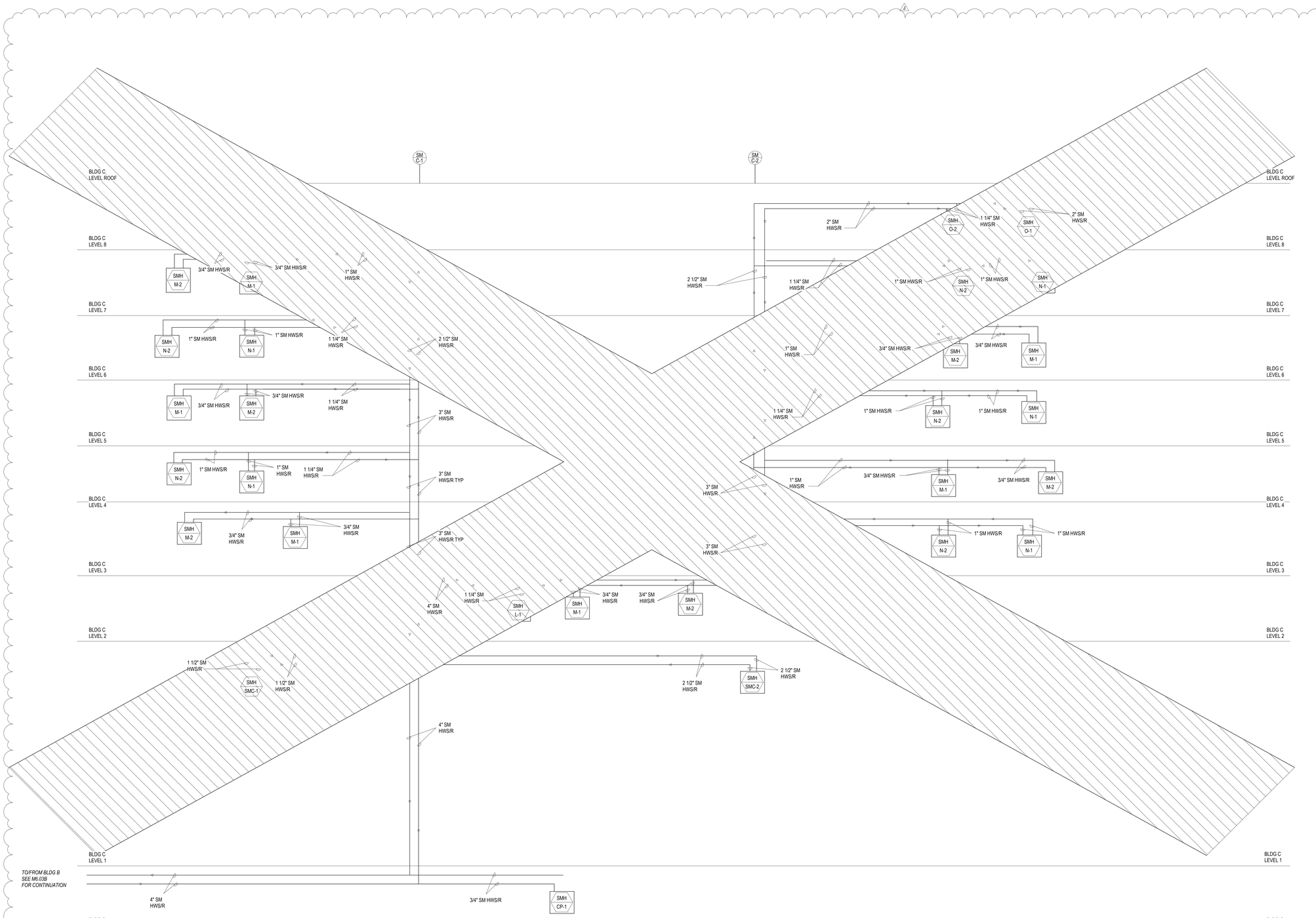
IFC Set 3 of 3
5/31/2024

MECHANICAL SNOWMELT RISER DIAGRAM - TOWER B

M6.03B



1 NOT USED - MECHANICAL SNOWMELT RISER DIAGRAM - BLDG C

SCALE: NTS

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Olson Kundig
159 South Jackson St, Suite 600
Seattle, Washington 98104 USA
t: 206.624.5670 olsonkundig.com

project
SOMMET BLANC
9300 Marsac Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
Midvale, Utah 84047

Specifications Writer
Friday Group
88 Mainelli Road
Middlebury, VT

Code Consultant
Holmes
600 1st Avenue, Suite 200A
Seattle, WA 98104

Fire Protection Engineer
Jensen Hughes
One Research Drive, Suite 305C
Westborough, MA 01581

Vertical Transportation Consulatant
Lerch Bates
19515 North Creek Parkway, Suite 304
Bothell, WA 98011

Structural Engineer
Magnusson Klemencic Associates
1301 5th Ave, Suite 3200
Seattle, WA 98101

Lighting Designer
O:
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
2101 N 34th St
Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect
project manager
drawn by
checked by Checker
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revisions:

J 1/10/2024 ASI 6

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05/31/2024

MECHANICAL SNOWMELT RISER DIAGRAM - BLDG C

M6.03C