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MECHANICAL SCHEDULES
MH-601

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AIR HANDLING UNIT SCHEDULE																	
UNIT NO.	SERVES	LOCATION	OUTSIDE AIR SUPPLY (CFM)	SUPPLY FAN			EXT. S.P. (IN W.C.)	TOTAL S.P. (IN W.C.)	MOTOR DATA			WEIGHT (LBS)	COOLING COIL	HEATING COIL	PRE-FILTER (%)	FINAL FILTER (%)	MANUFACTURER
				SUPPLY (CFM)	TYPE	WHEEL DIA (IN)			(HP)	(RPM)	(V/PH/Hz)						
AHU-1	LOBBY	MECH	200	2,600	FC	10	0.5	2.5	5	1800	460/3	1310	CC-1	HC-1	0	30	TRANE

- NOTES:
- SEE SEPARATE SCHEDULES FOR UNIT COILS, FILTERS, BLENDERS, AND HUMIDIFICATION REQUIREMENTS.
 - CFM AT PROJECT ALTITUDE.

CHILLED WATER COIL SCHEDULE															
UNIT NO.	SERVES	CAPACITY (CFM)	FACE VELOCITY (FPM)	AIR DATA				APD (IN W.C.)	WATER DATA			SIZE		ROWS	MANUFACTURER
				EAT (DB °F)	(WB °F)	(DB °F)	(WB °F)		EWT (°F)	LWT (°F)	WPD (FT W.C.)	L (IN)	H (IN)		
CC-1	AHU-1	2,600	426	80.4	65.8	54.7	53.8	0.50	18.9	44.0	54.0	34	38.7	6	TRANE

- NOTES:
- 2-WAY CONTROL VALVE.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE															
UNIT NO.	SERVES	BLADE MATERIAL	FRAME MATERIAL	MOUNT	GRILLE BLADE SPACING (IN)	-REGISTER FRONT BLADE/ DEFLECTION	FRAME L (IN)	SIZE W (IN)	FINISH	(N.C.)	MAX. APD (IN W.C.)	OPPOSED BLADE DAMPER/ MATERIAL	MANUFACTURER	MODEL	NOTES
A	SUPPLY	STEEL	STEEL	DUCT	3/4	22.5	SEE	PLAN	WHITE	30	0.1	YES/STEEL	TITUS	300RL	1
B	RETURN/EXHAUST	STEEL	STEEL	DUCT/SURFACE	3/4	0	SEE	PLAN	WHITE	30	0.1	YES/STEEL	TITUS	350ZRL	1
C	SUPPLY	STEEL	STEEL	LAYIN	3/4	0	SEE	PLAN	WHITE	30	0.1	YES/STEEL	TITUS	OMNI	1
D	RETURN/EXHAUST	STEEL	STEEL	LAYIN	3/4	0	SEE	PLAN	WHITE	30	0.1	YES/STEEL	TITUS	50F	1

- NOTES:
- N.C. VALUES BASED ON ROOM ABSORPTION OF 10 DB, RE 10-12 WATTS
 - PROVIDE FACTORY INSULATED PLENUM.
 - SEE DRAWING FOR NOZZLE SIZE AND NUMBER. COLOR PER ARCH.

EXHAUST FAN SCHEDULE												
UNIT NO.	SERVES	LOCATION	TYPE	MAX (CFM)	EXT. SP (IN W.C.)	RPM	DRIVE	MOTOR DATA		MANUFACTURER	MODEL	NOTES
								HP	(V/PH/Hz)			
EF-1	CUST 102	CUST 102	INLINE	100	0.30	1,550	DIRECT	1/30	115/1/60	GREENHECK	SQ-65-D	1

- NOTES:
- PROVIDE MOTORIZED DAMPER.

HEATING WATER COIL SCHEDULE															
UNIT NO.	SERVES	CAPACITY (CFM)	FACE VELOCITY (FPM)	AIR DATA				APD (IN W.C.)	WATER DATA			SIZE		ROWS	MANUFACTURER
				EAT (°F)	LAT (°F)	(IN W.C.)	(GPM)		EWT (°F)	LWT (°F)	WPD (FT W.C.)	L (IN)	H (IN)		
HC-1	AHU-1	2,600	426	65.0	95.0	0.15	9.5	180.0	160.0	0.8	34	38.75	2	TRANE	1, 2

- NOTES:
- 50% PROPYLENE GLYCOL.
 - 3-WAY CONTROL VALVE.

HORIZONTAL FAN COIL UNIT SCHEDULE																				
UNIT NO.	SERVES	COOLING CAPACITY						HEATING CAPACITY						EXT. S.P. (IN.W.C.)	TOTAL S.P. (IN.W.C.)	HP	RPM	MOTOR		NOTES
		CFM	TOTAL MBH	SENSIBLE MBH	GPM	EAT (F)	LAT (F)	APD (IN.W.C.)	(GPM)	EWT (°F)	LWT (°F)	WPD (FT.W.C.)	V/PH/Hz					MANUFACTURER	MODEL	
FCU-1	ELEVATOR MACHINE RM	600	25.4	16.8	5.3	80/67	54.5/53.12	0.15	2.6	180	157	0.8	0.3	1.5	.5	1700	120/1/60	TRANE	BCHC018A1	1, 2, 3, 4, 5, 8
FCU-2	ELECTRICAL/COMM ROOM	400	12.8	9.8	2.6	77/64.2	54.71/53.39	0.3	1.4	180	140	1.92	0.4	1.3	.33	1700	120/1/60	TRANE	BCHC012A1	1, 2, 3, 4, 5, 8
FCU-3	TRANSPORTATION WAITING	670	24.0	15.7	9.0	80/67	53.75/52.71	0.2	2.6	180	155	22.4	0.1	1.3	.5	1094	120/60/1	TRANE	FCCB08	1, 2, 3, 4, 5, 6, 7

- NOTES:
- 1" THROW AWAY FILTER.
 - COOLING IS SIZED AT 45 DEG F EWT, 55 DEG F LWT CHILLED WATER.
 - PROVIDE 2-WAY VALVE FOR CONTROL OF COOLING COIL.
 - PROVIDE 3-WAY VALVE FOR CONTROL OF HEATING COIL.
 - 50% PROPYLENE GLYCOL.
 - PROVIDE BOTTOM RETURN PANEL.
 - PROVIDE LITTLE GIANT VCMA-15UL CONDESATE PUMP.
 - ROUTE CONDESATE TO NEAREST FLOOR DRAIN.

PUMP SCHEDULE													
UNIT NO.	SERVES	LOCATION	TYPE	EFF %	CAPACITY		MOTOR DATA				MANUFACTURER	MODEL	NOTES
					(GPM)	HEAD (FT)	(RPM)	(HP)	(V/PH/Hz)				
P-1	HS-2	MECH	INLINE	55	121.5	20.0	1,750	1.5	460/3/60	B&G SERIES 80	2-1/2x2-1/2x7	2	
P-2	HS-2	MECH	INLINE	55	121.5	20.0	1,750	1.5	460/3/60	B&G SERIES 80	2-1/2x2-1/2x7	1, 2	
P-3	AHU-1, FCU-1, 2 & 3	MECH	INLINE	58	16.0	9.5	1,150	.75	460/3/60	B&G SERIES 80	1-1/2x1-1/2x7B	2	
P-4	AHU-1, FCU-1, 2 & 3	MECH	INLINE	58	16.0	9.5	1,150	.75	460/3/60	B&G SERIES 80	1-1/2x1-1/2x7B	1, 2	
P-5	SNOW PIT	MECH	INLINE	57	55.0	40.0	1,750	1.5	460/3/60	B&G SERIES 80	1-1/2x1-1/2x7B	2	
P-6	SNOW MELT	MECH	INLINE	54	36.5	44.0	1,750	1.5	460/3/60	B&G SERIES 80	1-1/2x1-1/2x7B	2	

- NOTES:
- STANDBY
 - 50% PROPYLENE GLYCOL.

EXPANSION TANK SCHEDULE										
UNIT NO.	SERVES	TANK CAPACITY (GAL)	ACCEPTANCE VOLUME (GAL)	PRESSURE RATING (PSIG)	PRECHARGE PRESSURE (PSIG)	MAX TEMP (°F)	FLUID	MANUFACTURER	MODEL	NOTES
ET-1	HOT WATER	21.7	11.3	125.0	12.0	240.0	HOT WATER	AMTROL	AX-40(V)	1

- NOTES:
- 50% PROPYLENE GLYCOL.

STEAM TO HOT WATER HEAT EXCHANGER SCHEDULE												
UNIT NO.	LOCATION	CAPACITY (MBH)	STEAM		WATER					MANUFACTURER	MODEL	NOTES
			(LB/HR)	(PSIG)	(GPM)	EWT (°F)	LWT (°F)	WPD (FT W.C.)	FOULING FACTOR			
HX-1	MECH	1,046	1,264	40.0	125	160.0	180.0	0.6	.0001	TACO	E08204-S	1

- NOTES:
- 50% PROPYLENE GLYCOL.

FLASH TANK SCHEDULE								
UNIT NO.	SERVES	TANK CAPACITY (GAL)	PRESSURE RATING (PSIG)	MAX TEMP (°F)	FLUID	MANUFACTURER	MODEL	NOTES
FT-1	MECH RM	30.0	150.0	450.0	STEAM	WESSELS	FTA30	1

- NOTES:
- PROVIDE LEGS FOR FLOOR MOUNTING.

CONDENSATE TRANSFER STATION										
UNIT NO.	SERVES	WATER MOTOR DATA					RECEIVER (GAL)	MANUFACTURER	MODEL	NOTES
		(GPM)	(PSIG)	(HP)	(RPM)	(V/PH/Hz)				
CTS-1	HX-1	5.0	18.0	(2)1/3	1750	120/1/60	15	SKIDMORE	XC2D151	1, 2, 3

- NOTES:
- PROVIDE THERMOMETER ON RECEIVER AND PRESSURE GAUGE ON EACH PUMP DISCHARGE.
 - CAST IRON RECEIVER.
 - DUPLEX PUMPS, PROVIDE WITH ALTERNATING CONTROLS.

UNIT HEATER SCHEDULE													
UNIT NO.	SERVES	TYPE	CAPACITY		HOT WATER				MOTOR		MANUFACTURER	MODEL	NOTES
			(CFM)	(MBH)	(GPM)	EWT (°F)	LWT (°F)	WPD (FT W.C.)	(HP)	(V/PH/Hz)			
UH-1	MECH 104	HORIZONTAL	1,250	60	6	180	160	0.7	1/4	120/1/60	REZNOR	WS 60/85	1


- NOTES:
- 50% PROPYLENE GLYCOL.

AIR SEPARATOR						
UNIT NO.	SYSTEM	TANK CAPACITY (GPM)	PRESSURE DROP (PSIG)	MANUFACTURER	MODEL	NOTES
AS-1	HEATING	125.0	--	BELL & GOSSET	IAS-3	1

- NOTES:
- PROVIDE LUGS FOR HORIZONTAL MOUNTING [PROVIDE LEGS FOR FLOOR MOUNTING].

CONSTRUCTION DOCUMENTS

		CONSULTANTS:				ARCHITECTS/ENGINEERS:				Drawing Title: MECHANICAL SCHEDULES				Project Title		Project Number		Office of Construction and Facilities Management	
		SIGNAGE SIGNIA DESIGN 2395 UNIVERSITY AVENUE W., SUITE 316 SAINT PAUL, MN 55114 PHONE: 651-209-6254				LEO A DALY PLANNING ARCHITECTURE ENGINEERING INTERIORS EST. 1995				I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am duly licensed Professional Engineer under the laws of the State of Minnesota Signature: <i>Brian L. Benson</i>				CONSTRUCT PARKING RAMP DESIGN		618-820			
		LANDSCAPE ANDERSON ENGINEERING 13605 1ST AVENUE NORTH, SUITE 100 PLYMOUTH, MN 55441 PHONE: 763-412-4000				730 Second Avenue South, Suite 1100 Minneapolis, MN 55402-2455 USA Tel 612-338-8741 Fax 612-338-4840 Project #023-10131-000				Printed Name: BRIAN L. BENSON Date: 02-24-2012 License: 20397				1 VETERANS DRIVE MINNEAPOLIS, MN 55417		Building Number 78			
														Location		Drawing Number		MH-601	
														1 VETERANS DRIVE MINNEAPOLIS, MN 55417					
														Date		Checked		Modeled	
														02-24-2012		BGB		GSP	
Revisions:	Date																	Drawing 093 of 116	

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