

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
①	PLAN NOTE
FC	EQUIPMENT SYMBOL
AFF	ABOVE FINISHED FLOOR
SA	SUPPLY AIR
RA	RETURN AIR
OA	FRESH AIR
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	HOT WATER RECIRC. PIPING
	HPS HEAT PUMP SUPPLY PIPING
	HPR HEAT PUMP RETURN PIPING
	CTS COOLING TOWER SUPPLY PIPING
	CTR COOLING TOWER RETURN PIPING
	CD CONDENSATE DRAIN LINE
	PIPE DROP
	PIPE RISE
	REDUCED PRESSURE BACKFLOW PREVENTER
	DIRECTION OF FLOW INDICATOR
	GATE VALVE
	BALL VALVE
	CHECK VALVE
	CIRCUIT SETTER
	STRAINER
	ELECTRONIC THERMOSTAT
	REMOTE SENSOR
	ATC PANEL
	HAND DAMPER
	CONCEALED HAND DAMPER WITH REMOTE OPERATOR
	FIRE DAMPER AND ACCESS
	FIRE-SMOKE DAMPER & ACCESS
	MOTORIZED DAMPER
	ROUND BRANCH DUCT WITH HAND DAMPER
	RECTANGULAR SUPPLY AND RETURN AIR DUCT TAKE-OFF
	TURNING VANES
	DUCT TRANSITION
	INSULATED FLEXIBLE DUCT
	DUCTWORK WITH EXTERIOR INSULATION
	SIDEMALL REGISTER (SUPPLY AIR)
	SIDEMALL GRILLE (RETURN AIR)
	RETURN AIR OR EXHAUST GRILLE
	CEILING DIFFUSER
	CEILING MOUNTED EXHAUST FAN
	ROOF TOP EXHAUST FAN
	HEAT PUMP UNIT

GRILLE AND REGISTER SCHEDULE										
SYM.	SIZE	THROW	CFM	CONSTR.	FINISH	BRANCH DUCT	F.D.	O.B.	REMARKS	
GR-1	12 x 12		50-400	STEEL	WHITE	10"φ	NO	NO	PRICE MODEL SMD IN 24x24 LAY-IN MODULE	
GR-2	12 x 12		50-400	STEEL	WHITE	10"φ	NO	NO	PRICE MODEL SMD WITH BEVELED FRAME	
GR-3	9 x 9		50-400	STEEL	WHITE	10"φ	NO	NO	PRICE MODEL SMD WITH BEVELED FRAME	
GR-4	18 x 10	---	500	STEEL	WHITE	IN DUCT	NO	YES	PRICE MODEL 905 WITH BOOT	
GR-5	15 x 15		350-600	STEEL	WHITE	12"φ	NO	NO	PRICE MODEL 535 IN 24x24 LAY-IN MODULE	
SR-1	12 x 8	---	200-400	STEEL	WHITE	12 x 8	NO	NO	PRICE MODEL 520L WITH NARROW FRAME	
SR-1	42 x 36	---	2000-4000	STEEL	WHITE	30 x 30	NO	NO	PRICE MODEL 535	
RG-1	12 x 12	---	50-450	STEEL	WHITE	12 x 8	NO	NO	PRICE MODEL 535 IN 24x24 LAY-IN MODULE	
RG-2	18 x 18	---	400-900	STEEL	WHITE	18 x 10	NO	NO	PRICE MODEL 535 IN 24x24 LAY-IN MODULE	
RG-3	12 x 12	---	50-450	STEEL	WHITE	12 x 8	NO	NO	PRICE MODEL 535	
RG-4	24 x 48	---	1800	STEEL	BY ARCH.	24 x 14	NO	NO	PRICE SERIES 915 HEAVY DUTY GRILLE	
RG-5	36 x 12	---	800-1800	STEEL	BY ARCH.	SEE PLAN	NO	NO	PRICE MODEL 535L	
RG-6	42 x 18	---	900-1400	STEEL	WHITE	18 x 14	NO	NO	PRICE MODEL 535L IN 48x24 LAY-IN MODULE	
RG-7	12 x 8	---	200-400	STEEL	WHITE	12 x 8	NO	NO	PRICE MODEL 535L WITH NARROW FRAME	
RG-8	48 x 48	---	6000	STEEL	WHITE	SEE PLAN	NO	NO	PRICE SERIES 90 HEAVY DUTY GRILLE	
ER-1	12 x 12	---	50-450	STEEL	WHITE	12 x 8	NO	YES	PRICE MODEL 535	
QL-1	48 x 48 CUSTOM	---	4000-8000	ALUM.	ANODIZED	SEE PLAN	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN. TOP OF LOUVER TO MATCH PITCH OF ROOF	
QL-2	48 x 48	---	4000-8000	ALUM.	ANODIZED	48 x 48 SLEEVE	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN.	
QL-3	48 x 24	---	2000-3000	ALUM.	ANODIZED	SEE PLAN	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN.	
QL-4	24 x 18	---	100-800	ALUM.	ANODIZED	24 x 18 PLENUM	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN.	
RC-1	13"φ	---	300-1200	ALUM.	ANODIZED	12 x 12	NO	NO	PENBARRY MODEL WCF ROOF WEATHER CAP	
BV-1	16 x 8	---	50-300	ALUM.	ANODIZED	SEE PLAN	NO	NO	PENBARRY MODEL B100 WITH INSECT SCREEN	

EXHAUST FAN SCHEDULE									
SYM.	TYPE	C.F.M.	S.P.E.	WATTS.	CHAR.	R.P.M.	CONTROL	REMARKS	
EF 1	INDOOR VENT SET	1000	50"	1/4 HP	120/60/1	1345	DDC SYSTEM	TWIN CITY MODEL 122-BCV WITH BACK-DRAFT DAMPER. MOUNT ON MEZZANINE FLOOR WITH VIBRATION ISOLATORS	
EF 2	CEILING MOUNTED	150	25	100	120/60/1	710	WITH LIGHTS	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER AND 6"φ DUCT TO BRICK VENT	
EF 3	CEILING MOUNTED	150	25	100	120/60/1	710	WITH LIGHTS	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER AND 6"φ DUCT TO BRICK VENT	
EF 4	CEILING MOUNTED	150	25	100	120/60/1	710	WITH LIGHTS	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER AND 6"φ DUCT TO BRICK VENT	
EF 5	INDOOR VENT SET	1200	50"	1/4 HP	120/60/1	1345	DDC SYSTEM	TWIN CITY MODEL 122-BCV WITH BACK-DRAFT DAMPER. MOUNT ON MEZZANINE FLOOR WITH VIBRATION ISOLATORS	
EF 6	CEILING MOUNTED	150	25	100	120/60/1	710	WITH LIGHTS	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER AND 6"φ DUCT TO ROOF CAP	
EF 7	CEILING MOUNTED	150	25	100	120/60/1	710	WITH LIGHTS	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER AND 6"φ DUCT TO ROOF CAP	
EF 8	CEILING MOUNTED	150	25	100	120/60/1	710	WITH LIGHTS	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER AND 6"φ DUCT TO ROOF CAP	
EF 9	CEILING MOUNTED	150	25	100	120/60/1	710	WITH LIGHTS	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER AND 6"φ DUCT TO BRICK VENT	
EF 10	CEILING MOUNTED	150	25	100	120/60/1	710	WITH LIGHTS	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER AND 6"φ DUCT TO BRICK VENT	
EF 11	INDOOR VENT SET	1000	50"	1/4 HP	120/60/1	1345	DDC SYSTEM	TWIN CITY MODEL 122-BCV WITH BACK-DRAFT DAMPER. MOUNT ON MEZZANINE FLOOR WITH VIBRATION ISOLATORS	
EF 12	INDOOR VENT SET	750	50"	1/4 HP	120/60/1	1345	DDC SYSTEM	TWIN CITY MODEL 122-BCV WITH BACK-DRAFT DAMPER. MOUNT ON MEZZANINE FLOOR WITH VIBRATION ISOLATORS	
EF 13	CEILING MOUNTED	200	25	127	120/60/1	740	WALL SWITCH	TWIN CITY MODEL T200 WITH BACK-DRAFT DAMPER AND 8"φ DUCT TO LOUVER	
EF 14	CEILING MOUNTED	150	25	100	120/60/1	710	WITH LIGHTS	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER AND 6"φ DUCT TO LOUVER	
EF 15	CEILING MOUNTED	200	25	127	120/60/1	740	COOLING STAT	TWIN CITY MODEL T200 WITH BACK-DRAFT DAMPER AND 8"φ DUCT TO LOUVER	
EF 16	ROOF TOP UP-BLAST	4200	2.0"	2 HP	208/60/3	1085	WITH HOOD	GREENHECK MODEL CUBE-220HP-20. MOUNT ON 18" HIGH ROOF CURB.	
EF 17	ROOF TOP UP-BLAST	465	1.0"	1/3 HP	120/60/1	1410	WITH HOOD	GREENHECK MODEL CUBE-131 WITH BACK-DRAFT DAMPER. MOUNT ON 18" HIGH ROOF CURB.	

UNIT HEATER SCHEDULE									
SYM.	TYPE	CFM	KW	CHAR.	BTU	T.R.	AMPS	WEIGHT	REMARKS
UH 1	HORIZONTAL	530	5	208/60/1	17,100	30°F	24.5	-	MODINE MODEL HER-50 COMPLETE WITH WALL MOUNTING BRACKET
UH 2	HORIZONTAL	530	5	208/60/1	17,100	30°F	24.5	-	MODINE MODEL HER-50 COMPLETE WITH WALL MOUNTING BRACKET

OUTSIDE AIR REQUIREMENTS											
SYM.	AREA SERVED	AREA SQ. FT.	OCCUPANCY / 1000 SQ. FT.	MAX. OCCUPANCY	REQ'D CFM PER PERSON	TOTAL CFM REQUIRED	REMARKS		ACTUAL OCC.	OUTSIDE AIR DUCT SIZE	ACTUAL CFM
HP 1	CLASS 104	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 2	CLASS 103	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 3	CLASS 106	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 4	CLASS 105	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 5	CORRIDOR 102	1534	.06/SQ. FT.	---	---	42			---	---	0
HP 6	T.R. 101 & 104	730	T5 CFM/WG.	11 W.G.	---	825			---	16x12	800
HP 7	CLASS 110	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 8	CLASS 111	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 9	CLASS 112	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 10	CLASS 113	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 11	CLASS 114	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 12	CLASS 115	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 13	COMPUTERS 116	846	25	22	10	220	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 14	CONF. 218	252	35	4	10	40	STATISTICAL DATA SHOWS 8 PEOPLE MAXIMUM IN ROOM.		8	10x6	150
HP 15	ADMIN. 216	850	5	4	5	20			6	10x6	100
HP 16	MEDIA CTR 220	2355	25	54	10	540	100% ECONOMIZER CAPACITY WITH 450 MIN. OUTSIDE AIR SET POINT		30	10x8	300 EACH
HP 17	PRINCIPAL 210	254	5	2	5	40			2	10x6	50
HP 18	VEST. 201	433	.06/SQ. FT.	---	---	15			---	---	0
HP 19	LOUNGE 205	805	35	28	10	280	STATISTICAL DATA SHOWS 20 PEOPLE MAXIMUM IN ROOM.		20	10x8	300
HP 20	V.P. 217	340	5	2	5	10	STATISTICAL DATA SHOWS 4 PEOPLE MAXIMUM IN ROOM.		4	10x6	50
HP 21	SPEECH 221	307	35	11	10	110	STATISTICAL DATA SHOWS 4 PEOPLE MAXIMUM IN ROOM.		4	10x6	150
HP 22	CLASS 318	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 23	CLASS 319	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 24	CLASS 316	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 25	CLASS 317	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 26	CLASS 312	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 27	T.R. 315 & 313	730	T5 CFM/WG.	12 W.G.	---	900			---	16x12	900
HP 28	CORRIDOR 302	1534	.06/SQ. FT.	---	---	42			---	---	0
HP 29	CLASS 310	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 30	KINDER 311	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 31	KINDER 304	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 32	KINDER 303	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 33	IT ROOM 004	154	---	---	---	---			0	---	0
HP 34	CLASS 225	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 35	CLASS 226	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 36	MEDIA CTR 220	2355	25	54	10	540	100% ECONOMIZER CAPACITY WITH 450 MIN. OUTSIDE AIR SET POINT		30	10x8	300 EACH
HP 37	CLASS 525	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 38	CLASS 414	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 39	IT ROOM 008	163	---	---	---	---			0	---	0
HP 40	STUDY 413	804	T5 CFM/WG.	2 W.G.	---	150			---	10x6	150
HP 41	CLASS 415	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 42	CORRIDOR 402	1450	.06/SQ. FT.	---	---	117			---	---	0
HP 43	CLASS 416	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 44	TOILET RM5	730	T5 CFM/WG.	11 W.G.	---	825			---	16x12	800
HP 45	CLASS 417	846	35	30	10	300	IDAHO LAW RESTRICTS ELEM. CLASS SIZES TO 28 MAXIMUM STUDENTS.		28	10x8	300
HP 46	CLASS 403	846	35	30	10	300	IDAHO LAW				