EXHAUST FAN SCHEDULE

SYM.	TYPE	C.F.M.	S.P.E.	H.P.	CHAR.	R.P.M.	CONTROL	REMARKS
EF-1	ROOF MOUNTED DOWN-BLAST	400	.38"	1/4	120/60/1	1300	BLG DDC	TWIN CITY MODEL 085C-BCRD WITH BACK-DRAFT DAMPER. MOUNT ON 18" HIGH ROOF CURB.
EF-2	ROOF MOUNTED DOWN-BLAST	450	.38"	1/4	120/60/1	1300	BLG DDC	TWIN CITY MODEL 085C-BCRD WITH BACK-DRAFT DAMPER. MOUNT ON 18" HIGH ROOF CURB.
EF-3	CEILING MOUNTED	100	.25"	87 W	120/60/1	640	WALL SWITCH	TWIN CITY MODEL T100 WITH BACK-DRAFT DAMPER. RUN 6"Ø DUCT TO ROOF CAP.
EF-4	ROOF MOUNTED UP-BLAST	2000	1.5"	1	208/60/3	1115	SWITCH ON HOOD	CAPTIVE AIRE MODEL DUB0HFA. MOUNT ON ROOF CURB (200 lbs.)
EF-5	ROOF MOUNTED UP-BLAST	525	.5"	1/3	120/60/1	1262	SWITCH ON HOOD	CAPTIVE AIRE MODEL DU32HFA. MOUNT ON ROOF CURB (100 lbs.)
EF-6	CEILING MOUNTED (ALT. #2)	100	.25"	87 W	120/60/1	640	WALL SWITCH	TWIN CITY MODEL T100 WITH BACK-DRAFT DAMPER. RUN 6"Ø DUCT TO ROOF CAP.
EF-7	CEILING MOUNTED	100	.25"	87 W	120/60/1	640	WALL SWITCH	TWIN CITY MODEL T100 WITH BACK-DRAFT DAMPER. RUN 6"Ø DUCT TO ROOF CAP.
EF-8	CEILING MOUNTED	100	.25"	87 W	120/60/1	640	WALL SWITCH	TWIN CITY MODEL T100 WITH BACK-DRAFT DAMPER. RUN 6"Ø DUCT TO ROOF CAP.
EF-9	CEILING MOUNTED (ALT. #2)	130	.38"	127 W	120/60/1	740	WALL SWITCH	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER. RUN 6"Ø DUCT TO WALL CAP ABOVE LOWER ROOF.
EF-10	CEILING MOUNTED (ALT. #2)	130	.38"	127 W	120/60/1	740	WITH LIGHTS	TWIN CITY MODEL T150 WITH BACK-DRAFT DAMPER. RUN 6"Ø DUCT TO WALL CAP ABOVE LOWER ROOF.

GRILLE AND REGISTER SCHEDULE

SYM.	SIZE	THROW	CFM	CONSTR.	FINISH	BRANCH DUCT	F.D.	O.B.	REMARKS
CD-1	9 x 9		50-199	STEEL	WHITE	8"Ø	NO	YES	PRICE MODEL SMD IN BEVELED FRAME
CD-2	12 x 12		200-450	STEEL	WHITE	10"Ø	NO	YES	PRICE MODEL SMD IN BEVELED FRAME
CD-3	12 x 12		50-450	STEEL	WHITE	10"Ø	NO	NO	PRICE MODEL SMD IN 24x24 LAY-IN MODULE
CD-4	24 x 24		200-400	STEEL	WHITE	10"Ø	NO	NO	PRICE MODEL SFD PLAQUE DIFFUSER
CD-5	48 x 11		400	STEEL	WHITE	10"Ø	NO	NO	PRICE MODEL ASP225 WITH (2) 2-1/2" SLOTS AND AIR PLENUM
RG-1	12 x 6		50-200	STEEL	WHITE	12 x 4	NO	NO	PRICE MODEL 535L. MOUNT AT 6" ABOVE FLOOR
RG-2	12 x 12		50-400	STEEL	WHITE	12 x 8	NO	NO	PRICE MODEL 535 IN 24x24 LAY-IN MODULE
RG-3	18 x 18		401-900	STEEL	WHITE	18 x 10	NO	NO	PRICE MODEL 535 IN 24x24 LAY-IN MODULE
RG-4	18 x 18		401-900	STEEL	WHITE	18 x 10	NO	NO	PRICE MODEL 535
RG-5	36 x 18		1200-1800	STEEL	WHITE	30 x 12	NO	NO	PRICE MODEL 535L
RG-6	18 x 12		300 - 500	STEEL	WHITE	18 x 12	NO	NO	PRICE MODEL 535L
RG-7	48 x 48		2000-3000	STEEL	WHITE	(2) 18"Ø	NO	NO	PRICE MODEL 535S
RG-8	30 x 12		500-900	STEEL	WHITE	30 x 12	NO	NO	PRICE MODEL 535L
SR-1	12 x 8		50-350	STEEL	WHITE	12 x 8	NO	NO	PRICE MODEL 520L
SR-2	24 x 10		400-800	STEEL	WHITE	24 x 10	NO	NO	PRICE MODEL 520L
SR-3	12 x 6		50-300	STEEL	WHITE	IN 12"Ø DUCT	NO	YES	PRICE MODEL SDGE WITH EXTRACTION DAMPER
ER-1	12 x 12		50-400	STEEL	WHITE	12 x 8	NO	NO	PRICE MODEL 535
OL-1	12 x 6		0-150	ALUM	COLOR BY ARCHITECT	10 x 6	NO	NO	AMERICAN WARMING LE31 WITH DRAINABLE BLADES AND BIRD SCREEN.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SA	SUPPLY AIR		RETURN AIR GRILLE	HD	HAND DAMPER
RA	RETURN AIR		CEILING DIFFUSER	FD	FIRE DAMPER AND ACCESS
OA	OUTSIDE AIR		EXHAUST AIR GRILLE	M	MOTORIZED DAMPER
REFR	REFRIGERANT		SIDEWALL REGISTER (SUPPLY AIR)	SF	SMOKE & FIRE DAMPER
AFF	ABOVE FINISHED FLOOR		SIDEWALL GRILLE (RETURN AIR)		ROUND BRANCH DUCT WITH HAND DAMPER
VFD	VARIABLE FREQUENCY DRIVE		LOCAL ATC PANEL		RECTANGULAR SUPPLY AND RETURN AIR DUCT TAKE-OFF
T	ELECTRONIC THERMOSTAT		ELECTRIC WALL HEATER		TURNING VANES
S	REMOTE SENSOR		HORIZONTAL UNIT HEATER		DUCT TRANSITION
1	PLAN NOTE		VARIABLE AIR BOX WITH WITH RE-HEAT COIL		INSULATED FLEXIBLE DUCT
FC 1	EQUIPMENT SYMBOL		CEILING MOUNTED EXHAUST FAN		ROUND SPIRAL DUCTWORK
	MOTORIZED 3 WAY MIXING OR DIVERTING VALVE		ROOF TOP EXHAUST FAN		
	2 POSITION MOTORIZED VALVE				
	PIPE DROP				
	PIPE RISE				
HWS	HOT WATER SUPPLY PIPING				
HWR	HOT WATER RETURN PIPING				
	BALL VALVE				
	DIRECTION OF FLOW INDICATOR				

ROOF TOP HEATING & AIR CONDITIONING UNIT SCHEDULE

SYM.	CFM	MIN. O.A.	SP_t	BLOWER H.P.	CHAR	MCA	MOCP	WEIGHT	GAS CONN	HEATING MBH IN	HEATING MBH OUT	HEATING EAT	HEATING LAT	COOLING MBH	COOLING IEER	COOLING EAT	COOLING WB	REMARKS
RT-1	6000	600	.80"	3	208/60/3	65.0	80	2850#	3/4"	350	280	65°F	101°F	180.5	14.0	95°F	67°F	TRANE MODEL YHD180G3RH (1)
RT-2	6000	600	.80"	3	208/60/3	65.0	80	2850#	3/4"	350	280	65°F	101°F	180.5	14.0	95°F	67°F	TRANE MODEL YHD180G3H (1)
RT-3	3000	400	.50"	1	208/60/3	41.9	50	1200#	3/4"	200	160	65°F	106°F	92.0	14.0	95°F	67°F	TRANE MODEL YHC092E3 (1)
RT-4	1800	200	.50"	1	208/60/3	41.4	60	1200#	3/4"	130	104	65°F	110°F	61.0	14.0	95°F	67°F	TRANE MODEL YHC060E3
RT-5	4000	400	.50"	2	208/60/3	46.1	60	1600#	3/4"	250	200	65°F	105°F	116.0	14.0	95°F	67°F	TRANE MODEL YHC120E3 (1)
RT-6	1800	200	.50"	1	208/60/3	41.4	60	1200#	3/4"	130	104	65°F	110°F	61.0	14.0	95°F	67°F	TRANE MODEL YHC060E3
RT-7	1800	200	.50"	1	208/60/3	41.4	60	1200#	3/4"	130	104	65°F	110°F	61.0	14.0	95°F	67°F	TRANE MODEL YHC060E3
RT-8	1800	200	.50"	1	208/60/3	41.4	60	1200#	3/4"	130	104	65°F	110°F	61.0	14.0	95°F	67°F	TRANE MODEL YHC060E3

(1) ROOF TOP UNIT TO BE PROVIDED WITH COIL GUARDS, ECONOMIZER CYCLE WITH POWERED EXHAUST, MOTORIZED DAMPER, AND INTAKE HOOD. MOUNT ON 18" HIGH ROOF CURB. PROVIDE SMOKE DETECTOR IN SUPPLY DUCT FOR UNIT SHUT-DOWN.

FURNACE SCHEDULE

SYM.	TYPE	DESIGN CFM	O.A. CFM	SP_E	H.P.	CHAR.	A.G.A. INPUT	A.G.A. OUTPUT	EAT	LAT	SUP	VENT	GAS TYPE	REMARKS
F-1	UP FLOW	1800	200	.75"	1	120/60/1	120,000	96,000	65°F	110°F	1/2"	(2) 3"Ø	NAT.	TRANE MODEL S9XAD120U5 WITH MATCHING DX COIL

CONDENSING UNIT SCHEDULE

SYM.	BTU	EAT	CHAR.	MCA - MOP	WEIGHT	REFRIGERANT PIPING LIQUID	REFRIGERANT PIPING SUCTION	REMARKS
CU-1	56,000	95°F	208/60/1	31.0 - 50	250#	3/8"	7/8"	TRANE MODEL 4TTR4060 WITH LOW AMBIENT "HARD-START" KIT.

ELECTRIC HEATER SCHEDULE

SYM.	TYPE	BTU	KW	CHAR	CONTROL	REMARKS
EH-1	RECESSED WALL MOUNT	6824	2	208/60/1	INTEGRAL	QMARK MODEL HT2024SSNW-G WITH SEMI-RECESSED MOUNTING FRAME.
EH-2	RECESSED WALL MOUNT	6824	2	208/60/1	INTEGRAL	QMARK MODEL HT2024SSNW-G WITH SEMI-RECESSED MOUNTING FRAME.

KITCHEN HOOD UNIT SCHEDULE

SYM.	LENGTH	WIDTH	HEIGHT	TYPE	EXH CFM	FAN SYM	MAKE-UP CFM	HEATER SYM	EXHAUST DUCT	FIRE SYST.	LIGHTS	CHAR	GREASE EXTRACTION	WEIGHT
KH-1	10'-0"	4'-0"	3'-0"	WALL CLASS I	2500	EF-4	2000	MA-1	10x22	YES	YES	120/60/1	YES	820#
DESCRIPTION:	ECON-AIR MODEL 4524 NFR NON WATER-WASH WALL MOUNTED HOOD COMPLETE WITH FIRE SUPPRESSION SYSTEM, LIGHT CONTROLS, GREASE EXTRACTION BAFFLES AND TROUGH. MAKE-UP AIR SUPPLY WITH DUCT CONNECTIONS ON EACH SIDE OF HOOD. 18 GAUGE STAINLESS STEEL CONSTRUCTION AND U.L. LABEL FIRE DAMPERS. MOUNT BOTTOM OF HOOD 6'-9" ABOVE FINISHED FLOOR. PROVIDE STAINLESS STEEL EXTENSION FROM HOOD TO CEILING.													
KH-2	3'-0"	2'-6"	2'-0"	WALL VAPOR	525	EF-5	---	---	7x10	NO	NO	---	N0	90#
DESCRIPTION:	ECON-AIR MODEL 3924 VH-1 WALL MOUNTED VAPOR HOOD COMPLETE WITH 18 GAUGE STAINLESS STEEL CONSTRUCTION AND PERIMETER GUUTER. MOUNT BOTTOM OF HOOD AT 6'-9" ABOVE FINISHED FLOOR OVER DISHWASHER. PROVIDE STAINLESS STEEL EXTENSION FROM HOOD TO CEILING.													

SPLIT SYSTEM A/C UNIT SCHEDULE

INDOOR UNIT SYM.	CFM	BTU	CHAR	MCA		OUTDOOR UNIT SYM.	BTU	MCA	SEER	CHAR	MANUFACTURER	REFRIG. LINES LIQUID	REFRIG. LINES SUCTION
FC-1A	600-700	24,000	208/60/1	1	MITSUBISHI MODEL PKA-A24KA7 WITH CONDENSATE PUMP	FC-1B	24,000	18	17	208/60/1	MITSUBISHI PUYA24NHA7 WITH LOW AMBIENT "HARD-START" KIT	3/8"	5/8"

MAKE UP AIR UNIT SCHEDULE

SYM.	TYPE	C.F.M.	MIN. CFM	SP E	BTU INPUT	BTU OUT	T.R.	GAS TYP.	GAS SIZE	HP	CHAR.	MCA	MOC	WEIGHT	REMARKS
MA-1	DIRECT FIRED ROOF MTD	2400	1600	.5"	230,000	207,000	90°F	NAT.	3/4"	1-1/2	208/60/3	5.5	15	800#	CAPTIVEAIRE A-D 250-15D WITH MINIMUM 150,000 BTU DIRECT FIRED BURNER.

BLD2009-00083
REVIEWED FOR CODE COMPLIANCE
This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.
SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION

Myers ■ Anderson
• Architecture
• Interior Design
• Historic Preservation
1725 South Holmes Street • Pocatello, Idaho 83204 • Fax (208) 232 3741 • Fax (208) 232 3782
922 Main Street, Suite 300 • Evanston, Wyoming 82930 • Tel. (307) 789 - 0754

BID SET
3-22-2021

Jan 29, 2021

Engineered Systems Associates
1355 EAST CENTER
POCATELLO, IDAHO 83201
PHONE: (208) 233-0501
FAX: (208) 233-0529
EMAIL: esa@engsystems.com
ESA JOB NUMBER: 18093

PROJECT:
DPW PROJECT NO. 19240
IDAHO STATE UNIVERSITY
ALUMNI & VISITOR CENTER
POCATELLO, IDAHO

SHEET TITLE:
MECHANICAL SCHEDULES

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 34" X 44" SHEET SIZE (ANSI E)

REVISION	DATE

DRAWN BY: M JENSEN
CHECKED BY: D SUDWEEKS
JOB NUMBER: 96548-13B
PROJECT DATE: FEBRUARY 2021
SHEET M302
4 of 4