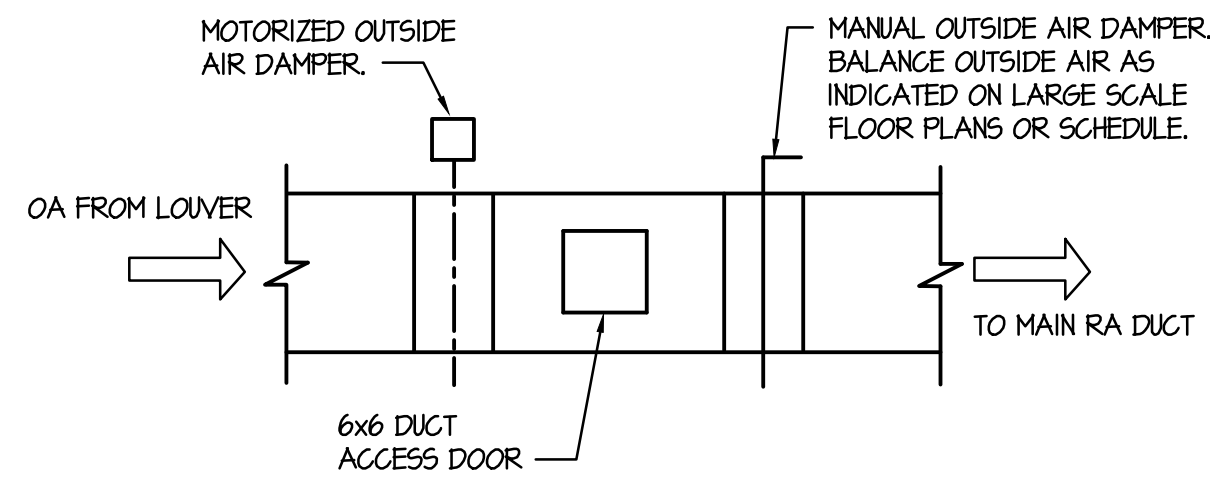


A TYPICAL UNIT HEATER MOUNTING DETAIL NO SCALE



B OUTSIDE AIR DAMPER INSTALLATION DETAIL NO SCALE

FURNACE SCHEDULE

SYM.	TYPE	DESIGN CFM	O.A. CFM	SP.E	H.P.	CHAR.	MEH		EAT	LAT	SUP	VENT	GAS TYPE	REMARKS
							INPUT	OUTPUT						
F1A	UP-FLOW	1900	500	1.0	1	120/60/1	132	126	65°F	110°F	1"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-135P60D COMPLETE WITH MATCHING DX COOLING COIL.
F1B	UP-FLOW	1900	500	1.0	1	120/60/1	132	126	65°F	110°F	1"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-135P60D COMPLETE WITH MATCHING DX COOLING COIL.
F1C	UP-FLOW	1900	500	1.0	1	120/60/1	132	126	65°F	110°F	1"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-135P60D COMPLETE WITH MATCHING DX COOLING COIL.
F1D	UP-FLOW	1900	500	1.0	1	120/60/1	132	126	65°F	110°F	1"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-135P60D COMPLETE WITH MATCHING DX COOLING COIL.
F2	UP-FLOW	1600	200	1.0	1	120/60/1	110	106	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-110P48C COMPLETE WITH MATCHING DX COOLING COIL.
F3	UP-FLOW	1400	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F4	UP-FLOW	1200	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F5	UP-FLOW	1400	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F6	UP-FLOW	1900	500	1.0	1	120/60/1	132	126	65°F	110°F	1"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-135P60D COMPLETE WITH MATCHING DX COOLING COIL.
F7A	UP-FLOW	1800	500	1.0	1	120/60/1	132	126	65°F	110°F	1"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-135P60D COMPLETE WITH MATCHING DX COOLING COIL.
F7B	UP-FLOW	1800	500	1.0	1	120/60/1	132	126	65°F	110°F	1"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-135P60D COMPLETE WITH MATCHING DX COOLING COIL.
F8	UP-FLOW	1400	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F9	UP-FLOW	1200	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F10	UP-FLOW	1400	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F11	UP-FLOW	1600	200	1.0	1	120/60/1	110	106	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-110P48C COMPLETE WITH MATCHING DX COOLING COIL.
F12	UP-FLOW	1400	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F13	UP-FLOW	1200	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F14	UP-FLOW	1200	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F15	UP-FLOW	1400	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F16	UP-FLOW	1900	500	1.0	1	120/60/1	132	126	65°F	110°F	1"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-135P60D COMPLETE WITH MATCHING DX COOLING COIL.
F17	UP-FLOW	1600	200	1.0	1	120/60/1	110	106	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-110P48C COMPLETE WITH MATCHING DX COOLING COIL.
F18	UP-FLOW	1600	200	1.0	1	120/60/1	110	106	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-110P48C COMPLETE WITH MATCHING DX COOLING COIL.
F19	UP-FLOW	1200	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F20	UP-FLOW	1200	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F21	UP-FLOW	1200	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F22	UP-FLOW	1200	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F23	UP-FLOW	1400	200	1.0	1	120/60/1	88	85	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-090P48C COMPLETE WITH MATCHING DX COOLING COIL.
F24	UP-FLOW	1600	200	1.0	1	120/60/1	110	106	65°F	110°F	3/4"	(2) 3"ø	NAT	LENNOX MODEL EL148UH-110P48C COMPLETE WITH MATCHING DX COOLING COIL.

ELECTRIC HEATER SCHEDULE

SYM.	TYPE	BTU	KW	CHAR.	CONTROL	REMARKS
EH1	HORIZONTAL UNIT HEATER	750ø	2.2	208/60/1	SENSOR	QMARK MODEL MJH0321 COMPLETE WITH WALL MOUNTING BRACKET.
EH2	HORIZONTAL UNIT HEATER	750ø	2.2	208/60/1	SENSOR	QMARK MODEL MJH0321 COMPLETE WITH WALL MOUNTING BRACKET.
EH3	HORIZONTAL UNIT HEATER	750ø	2.2	208/60/1	SENSOR	QMARK MODEL MJH0321 COMPLETE WITH WALL MOUNTING BRACKET.
EH4	SEMI-RECESSED WALL MTD	6824	2.0	208/60/1	INTEGRAL	QMARK MODEL ANH4409F COMPLETE WITH ANH51 1" SEMI-RECESSED WALL MOUNTING FRAME.
EH5	SEMI-RECESSED WALL MTD	6824	2.0	208/60/1	INTEGRAL	QMARK MODEL ANH4409F COMPLETE WITH ANH52 2" SEMI-RECESSED WALL MOUNTING FRAME.
EH6	SEMI-RECESSED WALL MTD	6824	2.0	208/60/1	INTEGRAL	QMARK MODEL ANH4409F COMPLETE WITH ANH52 2" SEMI-RECESSED WALL MOUNTING FRAME.
EH7	SEMI-RECESSED WALL MTD	6824	2.0	208/60/1	INTEGRAL	QMARK MODEL ANH4409F COMPLETE WITH ANH52 2" SEMI-RECESSED WALL MOUNTING FRAME.
EH8	SEMI-RECESSED WALL MTD	6824	2.0	208/60/1	INTEGRAL	QMARK MODEL ANH4409F COMPLETE WITH ANH52 2" SEMI-RECESSED WALL MOUNTING FRAME.
EH9	SEMI-RECESSED WALL MTD	6824	2.0	208/60/1	INTEGRAL	QMARK MODEL ANH4409F COMPLETE WITH ANH52 2" SEMI-RECESSED WALL MOUNTING FRAME.
EH10	SEMI-RECESSED WALL MTD	6824	2.0	208/60/1	INTEGRAL	QMARK MODEL ANH4409F COMPLETE WITH ANH52 2" SEMI-RECESSED WALL MOUNTING FRAME.
EH11	SEMI-RECESSED WALL MTD	6824	2.0	208/60/1	INTEGRAL	QMARK MODEL ANH4409F COMPLETE WITH ANH52 2" SEMI-RECESSED WALL MOUNTING FRAME.
EH12	SEMI-RECESSED WALL MTD	6824	2.0	208/60/1	INTEGRAL	QMARK MODEL ANH4409F COMPLETE WITH ANH52 2" SEMI-RECESSED WALL MOUNTING FRAME.
EH13	HORIZONTAL UNIT HEATER	750ø	2.2	208/60/1	SENSOR	QMARK MODEL MJH0321 COMPLETE WITH WALL MOUNTING BRACKET.

EXHAUST FAN SCHEDULE

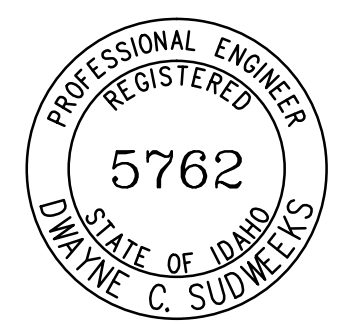
SYM.	TYPE	C.F.M.	S.P.E.	WATTS	CHAR.	R.P.M.	CONTROL	REMARKS
EF1	CEILING MOUNTED	150	.25"	100	120/60/1	710	WITH LIGHTS	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT TO WALL CAP. REFER TO DETAIL CMBJ.
EF2	CEILING MOUNTED	150	.25"	100	120/60/1	710	WITH LIGHTS	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT TO WALL CAP. REFER TO DETAIL CMBJ.
EF3	CEILING MOUNTED	150	.25"	100	120/60/1	710	WITH LIGHTS	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT TO WALL CAP. REFER TO DETAIL CMBJ.
EF4	CEILING MOUNTED	150	.25"	100	120/60/1	710	WITH LIGHTS	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT TO WALL CAP. REFER TO DETAIL CMBJ.
EF5	CEILING MOUNTED	250	.25"	166	120/60/1	830	TIMER	THIN CITY T250 WITH BACK-DRAFT DAMPER AND 6"ø DUCT. REFER TO DETAIL CMBJ.
EF6	CEILING MOUNTED	200	.25"	127	120/60/1	740	WALL SWITCH	THIN CITY T200 WITH BACK-DRAFT DAMPER AND 6"ø DUCT. REFER TO DETAIL CMBJ.
EF7	CEILING MOUNTED	150	.25"	100	120/60/1	710	WITH LIGHTS	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT. REFER TO DETAIL CMBJ.
EF8	CEILING MOUNTED	150	.25"	100	120/60/1	710	WALL SWITCH	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT. REFER TO DETAIL CMBJ.
EF9	CEILING MOUNTED	250	.25"	166	120/60/1	830	TIMER	THIN CITY T250 WITH BACK-DRAFT DAMPER AND 6"ø DUCT. REFER TO DETAIL CMBJ.
EF10	CEILING MOUNTED	150	.25"	100	120/60/1	710	WALL SWITCH	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT. REFER TO DETAIL CMBJ.
EF11	VENT SET	600	.38"	1/4 HP	120/60/1	1100	WITH DISHWASHER	THIN CITY 105 F.C.I. WITH BACK-DRAFT DAMPER AND 10"ø DUCT. REFER TO DETAIL CMBJ.
EF12	CEILING MOUNTED	300	.25"	212	120/60/1	905	TIMER	THIN CITY T300 WITH BACK-DRAFT DAMPER AND 8"ø DUCT TO WALL CAP. REFER TO DETAIL CMBJ.
EF13	CEILING MOUNTED	300	.25"	212	120/60/1	905	TIMER	THIN CITY T300 WITH BACK-DRAFT DAMPER AND 8"ø DUCT UP TO WALL CAP. REFER TO DETAIL CMBJ.
EF14	CEILING MOUNTED	150	.25"	100	120/60/1	710	COOLING STAT	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT UP TO WALL CAP. REFER TO DETAIL CMBJ.
EF15	CEILING MOUNTED	150	.25"	100	120/60/1	710	WITH LIGHTS	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT UP TO WALL CAP. REFER TO DETAIL CMBJ.
EF16	CEILING MOUNTED	150	.25"	100	120/60/1	710	WALL SWITCH	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT TO WALL CAP. REFER TO DETAIL CMBJ.
EF17	CEILING MOUNTED	150	.25"	100	120/60/1	710	WITH LIGHTS	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT UP TO WALL CAP. REFER TO DETAIL CMBJ.
EF18	CEILING MOUNTED	150	.25"	100	120/60/1	710	WITH LIGHTS	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT UP TO WALL CAP. REFER TO DETAIL CMBJ.
EF19	CEILING MOUNTED	150	.25"	100	120/60/1	710	COOLING STAT	THIN CITY T150 WITH BACK-DRAFT DAMPER AND 6"ø DUCT UP TO WALL CAP. REFER TO DETAIL CMBJ.

GRILLE AND REGISTER SCHEDULE

SYM.	SIZE	THROW	CFM	CONSTR.	FINISH	BRANCH DUCT	F.D.	O.B.	REMARKS
GR-1	12 x 12	↔	200-450	STEEL	WHITE	10"ø	NO	NO	PRICE MODEL SMD WITH 24x24 LAY-IN MODULE
GR-2	9 x 9	↔	50-200	STEEL	WHITE	8"ø	NO	NO	PRICE MODEL SMD WITH 24x24 LAY-IN MODULE
GR-3	9 x 9	↔	50-200	STEEL	WHITE	8"ø	NO	NO	PRICE MODEL SMD WITH BEVELED FRAME
GR-4	12 x 12	↔	150-450	STEEL	WHITE	10"ø	NO	NO	PRICE MODEL SMD WITH BEVELED FRAME
GR-1	10 x 8		100-300	STEEL	WHITE	IN 10"ø MIN. DUCT	NO	YES	PRICE SØGE WITH ADJUSTABLE EXTRACTION DAMPER
GR-2	16 x 10		400-600	STEEL	WHITE	IN 14"ø MIN. DUCT	NO	YES	PRICE SØGE WITH ADJUSTABLE EXTRACTION DAMPER
RG-1	16 x 36		500-1000	STEEL	WHITE	18 x 12	NO	NO	PRICE 535/F WITH SURFACE MOUNTING FRAME
RG-2	12 x 12		50-400	STEEL	WHITE	10"ø	NO	NO	PRICE 535 WITH 24x24 LAY-IN MODULE
RG-3	12 x 12		50-400	STEEL	WHITE	12x10	NO	NO	PRICE 535
RG-4	24 x 36		1200-1800	STEEL	WHITE	24 x 12	NO	NO	PRICE SERIES 96 HEAVY DUTY 6YM GRILLE WITH SURFACE MOUNTING FRAME
RG-5	36 x 48		3000-4200	STEEL	WHITE	36 x 16	NO	NO	PRICE SERIES 96 HEAVY DUTY 6YM GRILLE WITH SURFACE MOUNTING FRAME
RG-6	18 x 30		1600	STEEL	WHITE	24 x 12	NO	NO	PRICE SERIES 96 HEAVY DUTY 6YM GRILLE WITH SURFACE MOUNTING FRAME
RG-7	36 x 36		3600	STEEL	WHITE	36 x 36	NO	NO	PRICE HEAVY DUTY 6YM GRILLE WITH SURFACE MOUNTING FRAME
QR-1	36 x 36		3600	ALUM.	ANODIZED	36 x 36	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN
QR-2	24 x 30		1200-2200	ALUM.	ANODIZED	24 x 24	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN
QR-3	18 x 24		500-1000	ALUM.	ANODIZED	18 x 24	NO	NO	AMERICAN WARMING LE-31 WITH DRAINABLE BLADES AND BIRD SCREEN

ORIGINAL DRAWING SIGNED BY: DWAYNE C. SUDNECKS
 DATE ORIGINAL SIGNED: March 20, 2019
 ORIGINAL ON FILE AT ENGINEERED SYSTEMS ASSOCIATES
 1355 EAST CENTER, POCATELLO, IDAHO 83201

Engineered Systems Associates
 1355 EAST CENTER POCATELLO, IDAHO 83201
 PHONE: (208) 233-0501
 FAX: (208) 233-0529
 EMAIL: esa@engsystems.com
 ESA JOB NUMBER: 17078



CONTRACTOR

Grace School District # 148
 New Elementary School
 Fourth West Street
 Grace, Idaho

project for:
 Grace School District # 148
 New Elementary School
 Fourth West Street
 Grace, Idaho

340 East Clark Street, Suite A
 Pocatello, Idaho 83201
 Phone (208) 233-4548
 Fax (208) 233-0263
 email tek@bootharchitecture.com

BOOTH Architecture PLLC

mechanical schedules
 Date 3/22/19
 Sheet No. M3.2