DESIGN CONDITIONS

	WINTER	SUMMER
OUTSIDE TEMPERATURE	+24 DEG. F	98 DEG. F. D.B./68 DEG. F.W.B.
INSIDE TEMPERATURE	+72 DEG. F	78 DEG. F. D.B./65 DEG. F.W.B.

CONDENSER ENTERING AIR TEMPERATURE = 105 DEG. F.

* ALTITUDE: 3600 FT. ABOVE SEA LEVEL. SCHEDULED HEAT OUTPUTS DERATED 15 PERCENT FOR ALTITUDE ADJUSTMENT.

EQUIPMENT SCHEDULES

ROOF TOP A.C. UNITS

	UNIT DESIGNATION	COOLING CYCLE: TOTAL COOLING CAPACITY (BTUH)	SENSIBLE COOLING CAPACITY (BTUH)	CONDENSER ENT. AIR TEMP. (DEG. F.)	EVAPORATOR FAN DATA: TOTAL AIR (CFM)	MINIMUM OUTSIDE AIR (CFM)	EXTERNAL STATIC PRESSURE ("WG)	EVAP. FAN MOTOR DATA: RPM	BHP	EVAP. COIL DATA: ENT. AIR TEMP. DEG. F. (D.B./W.B.)	LVG. AIR TEMP. DEG. F. (D.B./W.B.)	COMPRESSOR: MINIMUM QUANTITY	REFR. TYPE	HEATING CYCLE: FUEL	* HEATING INPUT (1ST/2ND STAGE) MBH	HEATING OUTPUT (2ND STAGE) MBH	UNIT ELEC. CHAR.: VOLTAGE/ PHASE/ HZ.	MINIMUM CIRCUIT AMPERES	MAXIMUM OVERCURRENT PROTECTION	REMARKS
	A-1	32,310	21,510	105	900	80	1.00	858	0.34	80.0/65.3	54.4/52.6	1	R-410A	NATURAL GAS	56.0 (1 STAGE)	36.8	208/1/60 △1	26.7	30A	EQUAL TO CARRIER 48PG03 W/ OPTIONS: △1 △1 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-2	35,200	26,000	105	1,200	200	1.00	898	0.52	82.4/65.6	62.5/59.1	1	R-410A	NATURAL GAS	39.2/56	38.6	460/3/60	9.0	15A	EQUAL TO CARRIER 48PG04 W/ OPTIONS: △1 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-3	35,200	26,000	105	1,200	200	1.00	898	0.52	82.4/65.6	62.5/59.1	1	R-410A	NATURAL GAS	39.2/56	38.6	460/3/60	9.0	15A	EQUAL TO CARRIER 48PG04 W/ OPTIONS: △1 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-4	66,420	52,800	105	2,400	320	1.00	1125	1.56	80.9/65.4	57.4/56.0	1	R-410A	NATURAL GAS	79.1/113	77.8	460/3/60	17.6	25A	EQUAL TO CARRIER 48PG07 W/ OPTIONS: △1 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-5	86,100	70,300	105	3,000	600	1.00	789	1.28	82.4/65.6	60.9/56.1	2	R-410A	NATURAL GAS	95.2/136	94.8	460/3/60	20.8	25A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: △1 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-6	46,300	34,500	105	1,600	320	1.00	931	0.72	82.4/65.6	62.6/56.1	1	R-410A	NATURAL GAS	52.5/75	51.7	460/3/60	△1 13.7	20A	EQUAL TO CARRIER 48PG05 W/ OPTIONS: △1 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-7	299,000	229,000	105	10,000	2,000	1.00	1278	10.12	82.4/65.6	61.4/55.9	2	R-410A	NATURAL GAS	281/365	251.6	460/3/60	△1 69.0	90A	EQUAL TO CARRIER 48PG28 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-8	237,000	172,000	105	8,000	1,600	1.00	1079	6.07	82.4/65.6	62.7/55.9	2	R-410A	NATURAL GAS	281/365	251.6	460/3/60	50.0	60A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-9	237,000	172,000	105	8,000	1,600	1.00	1079	6.07	82.4/65.6	62.7/55.9	2	R-410A	NATURAL GAS	281/365	251.6	460/3/60	50.0	60A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-10	237,000	172,000	105	8,000	1,600	1.00	1079	6.07	82.4/65.6	62.7/55.9	2	R-410A	NATURAL GAS	281/365	251.6	460/3/60	50.0	60A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-11	237,000	172,000	105	8,000	1,600	1.00	1079	6.07	82.4/65.6	62.7/55.9	2	R-410A	NATURAL GAS	281/365	251.6	460/3/60	50.0	60A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-12	237,000	172,000	105	8,000	1,600	1.00	1079	6.07	82.4/65.6	62.7/55.9	2	R-410A	NATURAL GAS	281/365	251.6	460/3/60	50.0	60A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-13	182,100	139,000	105	6,000	1,200	1.00	1043	3.96	82.4/65.6	61.1/55.8	2	R-410A	NATURAL GAS	248/310	213.4	460/3/60	△1 39.0	50A	EQUAL TO CARRIER 48PG16 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-14	237,000	172,000	105	8,000	1,600	1.00	1079	6.07	82.4/65.6	62.7/55.9	2	R-410A	NATURAL GAS	281/365	251.6	460/3/60	50.0	60A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-15	237,000	172,000	105	8,000	1,600	1.00	1079	6.07	82.4/65.6	62.7/55.9	2	R-410A	NATURAL GAS	281/365	251.6	460/3/60	50.0	60A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-16	66,310	51,320	105	2,400	240	1.00	1125	1.56	80.2/65.3	57.3/55.9	1	R-410A	NATURAL GAS	79.1/113	77.8	460/3/60	17.6	25A	EQUAL TO CARRIER 48PG07 W/ OPTIONS: △1 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-17	83,110	66,040	105	3,000	300	1.00	789	1.28	80.2/65.3	56.7/55.9	2	R-410A	NATURAL GAS	126.7/181	126.1	460/3/60	20.8	25A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: △1 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-18	83,110	66,040	105	3,000	300	1.00	789	1.28	80.2/65.3	56.7/55.9	2	R-410A	NATURAL GAS	126.7/181	126.1	460/3/60	20.8	25A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 17 18 19
△1	A-19	182,100	139,000	105	6,000	1,200	1.00	1043	3.96	82.4/65.6	61.1/55.8	2	R-410A	NATURAL GAS	248/310	213.4	460/3/60	△1 39.0	50A	EQUAL TO CARRIER 48PG16 W/ OPTIONS: △1 1 2 3 5 6 7 8 9 10 11 12 15 16 18 19
	A-20	118,000	93,000	105	4,000	400	1.00	903	2.31	84.9/66.0	61.5/58.5	2	R-410A	NATURAL GAS	158.2/226	185.3	460/3/60	△1 29.2	35A	EQUAL TO CARRIER 48PG12 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 15 16 17 18 19
△6	A-21	46,300	34,500	105	1,600	320	1.00	931	0.72	82.4/65.6	62.6/56.1	1	R-410A	NATURAL GAS	52.5/75.0	51.7	208/3/60	29.3	40A	EQUAL TO CARRIER 48PG05 W/ OPTIONS: △1 1 2 3 5 6 7 8 9 10 11 12 16 18
△15	A-22	46,300	34,500	105	1,600	320	1.00	931	0.72	82.4/65.6	62.6/56.1	1	R-410A	NATURAL GAS	52.5/75.0	51.7	208/3/60	29.3	40A	EQUAL TO CARRIER 48PG05 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 16 18
	A-23	46,300	34,500	105	1,600	320	1.00	931	0.72	82.4/65.6	62.6/56.1	1	R-410A	NATURAL GAS	52.5/75.0	51.7	208/3/60	29.3	40A	EQUAL TO CARRIER 48PG05 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 16 18
	B-1	218,400	165,200	105	6,400	1,725	1.25	1000	4.25	83.9/65.8	60.1/58.2	2	R-410A	NATURAL GAS	317/400	278.8	208/3/60	114.0 △1	150A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 16 17 18 19
	B-2	225,300	181,100	105	7,700	2,200	1.6	1175	7.00	84.3/65.8	62.7/59.3	2	R-410A	NATURAL GAS	317/400	278.8	208/3/60	△1 122.0	150A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 16 17 18 19
	B-3	222,000	173,200	105	7,000	2,000	1.3	1050	5.10	84.3/65.9	61.6/58.9	2	R-410A	NATURAL GAS	317/400	278.8	208/3/60	△1 114.0	150A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 16 17 18 19
	B-4	219,100	166,400	105	6,500	1,750	1.25	1000	4.35	83.9/65.9	60.4/58.4	2	R-410A	NATURAL GAS	317/400	278.8	208/3/60	△1 114.0	150A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 14 16 17 18 19
	B-5	237,200	184,400	105	8,000	2,175	1.75	1230	7.4	84.0/65.8	62.8/59.2	2	R-410A	NATURAL GAS	317/400	278.8	208/3/60	△1 122.0	150A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 14 16 17 18 19
	B-6	225,000	179,900	105	7,600	2,150	1.60	1195	7.10	84.2/65.8	62.5/59.2	2	R-410A	NATURAL GAS	317/400	278.8	208/3/60	△1 122.0	150A	EQUAL TO CARRIER 48PG24 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 14 16 17 18 19
	B-7	65,300	50,800	105	2,050	700	0.90	1050	1.10	85.5/66.0	62.8/58.9	1	R-410A	NATURAL GAS	105/151	103.9	208/3/60	39.4	50A	EQUAL TO CARRIER 48PG07 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 16 17 18 19
	B-8	84,700	72,050	105	3,000	700	0.75	725	1.10	83.1/65.7	61.1/59.4	2	R-410A	NATURAL GAS	127/181	126.1	208/3/60	45.7	50A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 16 17 18 19

OPTIONS: (1) LEEDS COMPLIANT (2) COMFORT LINK CONTROLS (3) POWERED CONVENIENCE OUTLET (4) 2-POSITION OUTSIDE AIR DAMPER (5) ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL (6) CONDENSOR COIL HAIL GUARD GRILLE (7) MERV 8 PLEATED RETURN AIR FILTERS (8) EXTRA SET OF RETURN AIR FILTERS (9) FAN AND PLUGGED FILTER SWITCH (10) PHASE LOSS PROTECTION (11) STAINLESS STEEL HEAT EXCHANGER (12) 14" HIGH FACTORY ROOF CURB (13) ELECTRONIC PROGRAMMABLE THERMOSTAT (14) BAROMETRIC RELIEF DAMPER (15) CO2 SENSOR (16) SPACE TEMPERATURE SENSOR (17) HUMIDI-MIZER SYSTEM (18) NATURAL GAS ALTITUDE KIT (19) OUTDOOR AIR THERMOSTAT HH22AG106

SEE SHEET MD-102 AND MD-103 FOR ADDITIONAL MECHANICAL EQUIPMENT SCHEDULES

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FORT BLISS LIFESTYLE CENTER
EL PASO TX

CONSTRUCTION SET
01.23.2009

DRAWINGS REVISED TO SHOW AS-BUILT CONDITIONS
DATE: 10.20.10
BY: H.J./T.H.

No.	Date	Item
1		RFQ #1
6	05/21/09	RFQ #6
11	10/09/09	RFQ #11
15	11/25/09	RFQ #15

REVISIONS

GK Drawn
BNTH Checked
KB Approved

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01.23.09

MECHANICAL SCHEDULES

AAFES Project No. 3770-06-000013
GFF Project No. 06169.00

Construction Set 01.23.2009

MD101

RECORD DRAWING

KA # 07355

EQUIPMENT SCHEDULES

EXISTING ROOF TOP A.C. UNITS (BLDG A)

PROVIDED FOR TEST AND BALANCE INFORMATION ONLY

UNIT #	UNIT MFGR. & MODEL #	SUPPLY CFM EXISTING (CFM)	SUPPLY CFM NEW (CFM)	NEW MINIMUM OA CFM	HEATING CAPACITY INPUT (BTUH)	REFR. TYPE	FUEL
RT-1	TRANE #YCD240B4HGBF	8,000	8,000	1,600	300,000	R-22	NATURAL GAS
RT-2	TRANE #YCD240B4HGBF	8,000	8,000	1,600	300,000	R-22	NATURAL GAS
RT-9	TRANE #YCD240B4HGBF	8,000	8,000	1,600	300,000	R-22	NATURAL GAS
RT-23	TRANE #YCD181B4LADD	6,000	6,000	1,200	175,000	R-22	NATURAL GAS
RT-24	TRANE #YCD181B4LADD	6,000	6,000	1,200	175,000	R-22	NATURAL GAS
RT-25	TRANE #YCD181B4LADD	6,000	6,000	1,200	175,000	R-22	NATURAL GAS 6
RT-26	TRANE #YCD181B4LADD	6,000	6,000	1,200	175,000	R-22	NATURAL GAS
RT-28	TRANE #YCD300B4HGFB	10,000	10,000	2,000	300,000	R-22	NATURAL GAS
RT-29	TRANE #YCD300B4HGFB	10,000	10,000	2,000	300,000	R-22	NATURAL GAS
RT-31	TRANE #YCD300B4HGFB	10,000	10,000	2,000	300,000	R-22	NATURAL GAS

ROOF TOP A.C. UNITS

UNIT #	COOLING CYCLE: UNIT DESIGNATION	TOTAL COOLING CAPACITY (BTUH)	SENSIBLE COOLING CAPACITY (BTUH)	CONDENSER ENT. AIR TEMP. (DEG. F.)	EVAPORATOR FAN DATA: TOTAL AIR (CFM)	MINIMUM OUTSIDE AIR (CFM)	EXTERNAL STATIC PRESSURE ("WG)	EVAP. FAN MOTOR DATA: RPM	BHP	EVAP. COIL DATA: ENT. AIR TEMP. DEG. F. (D.B./W.B.)	LVG. AIR TEMP. DEG. F. (D.B./W.B.)	COMPRESSOR: MINIMUM QUANTITY	REFR. TYPE	HEATING CYCLE: FUEL	* HEATING INPUT (1ST/2ND STAGE) MBH	HEATING OUTPUT (2ND STAGE) MBH	UNIT ELEC. CHAR.: VOLTAGE/ PHASE/ HZ.	MINIMUM CIRCUIT AMPERES	MAXIMUM OVERCURRENT PROTECTION	REMARKS
RT-1	B-9	144,800	107,150	105	4,250	1,100	1.00	925	2.6	83.7/65.7	60.6/58.1	2	R-410A	NATURAL GAS	158/226	157.5	208/3/60	74.0	90A	EQUAL TO CARRIER 48PG14 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 16 17 18 19
RT-2	B-10	118,480	89,160	105	3,500	1,100	1.00	850	1.5	84.9/66.0	61.5/58.5	2	R-410A	NATURAL GAS	158/226	157.5	208/3/60	58.4	70A	EQUAL TO CARRIER 48PG12 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 16 17 18 19
RT-9	B-11	97,200	84,400	105	3,500	0	0.75	760	1.4	78.0/65.0	55.9/55.0	2	R-410A	NATURAL GAS	91/130	90.6	208/3/60	54.0	60A	EQUAL TO CARRIER 48PG09 W/ OPTIONS: 1 2 3 6 7 8 9 10 11 12 16 18
RT-23	B-12	97,800	68,400	105	3,000	500	0.65	67.0	1.00	81.6/65.5	60.7/58.3	2	R-410A	NATURAL GAS	91/130	90.6	208/3/60	54.0	60A	EQUAL TO CARRIER 48PG09 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 16 17 18 19
RT-24	B-13	44,820	37,100	105	1,700	0	0.60	800	0.60	78.0/67.0	58.0/57.5	1	R-410A	NATURAL GAS	52/74	51.0	208/3/60	29.3	40A	EQUAL TO CARRIER 48PG05 W/ OPTIONS: 1 2 3 6 7 8 9 10 11 12 16 18
RT-25	B-14	46,300	34,500	105	1,600	320	1.00	931	0.72	82.4/65.6	62.6/56.1	1	R-410A	NATURAL GAS	52.5/75.0	51.7	208/3/60	29.3	40A	EQUAL TO CARRIER 48PG05 W/ OPTIONS: 11 1 2 3 5 6 7 8 9 10 11 12 16 18
RT-26	B-15	46,300	34,500	105	1,600	320	1.00	931	0.72	82.4/65.6	62.6/56.1	1	R-410A	NATURAL GAS	52.5/75.0	51.7	208/3/60	29.3	40A	EQUAL TO CARRIER 48PG05 W/ OPTIONS: 11 1 2 3 5 6 7 8 9 10 11 12 16 18
RT-28	B-16	59,200	44,600	105	2,000	320	1.00	1009	1.05	81.5/65.5	61.1/58.9	1	R-410A	NATURAL GAS	79.1/113	77.8	208/3/60	33.5	50A	EQUAL TO CARRIER 48PG06 W/ OPTIONS: 11 1 2 3 5 6 7 8 9 10 11 12 16 18
RT-29	C-1	87,300	74,100	105	3,500	250	0.75	750	1.4	79.9/67.0	60.5/59.5	2	R-410A	NATURAL GAS	95.2/136.0	94.8	208/3/60	45.7	50A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: 1 2 3 4 5 6 7 8 9 10 11 12 16 18
RT-31	D-1	82,970	64,360	105	3,000	200	1.00	789	1.28	79.5/65.2	56.6/55.8	2	R-410A	NATURAL GAS	95.2/136	94.8	208/3/60	43.4	50A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: 11 1 2 3 5 6 7 8 9 10 11 12 16 18
	D-2	59,200	44,600	105	2,000	320	1.00	1009	1.05	81.5/65.5	61.1/58.9	1	R-410A	NATURAL GAS	79.1/113	77.8	208/3/60	33.5	50A	EQUAL TO CARRIER 48PG06 W/ OPTIONS: 11 1 2 3 5 6 7 8 9 10 11 12 16 18
	D-3	98,030	69,870	105	3,400	200	1.00	812	1.54	79.3/65.2	57.4/55.3	2	R-410A	NATURAL GAS	126.7/181	126.1	208/3/60	49.0	60A	EQUAL TO CARRIER 48PG09 W/ OPTIONS: 11 1 2 3 5 6 7 8 9 10 11 12 16 18
	D-4	98,030	71,950	105	3,400	300	1.00	812	1.54	80.0/65.2	57.4/55.3	2	R-410A	NATURAL GAS	126.7/181	126.1	208/3/60	49.0	60A	EQUAL TO CARRIER 48PG09 W/ OPTIONS: 11 1 2 3 5 6 7 8 9 10 11 12 16 18
	D-5	82,970	64,360	105	3,000	200	1.00	789	1.28	79.5/65.2	56.6/55.8	2	R-410A	NATURAL GAS	95.2/136	94.8	208/3/60	43.3	50A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: 11 1 2 3 5 6 7 8 9 10 11 12 16 18
19	D-6	98,030	69,870	105	3,400	200	1.00	812	1.54	79.3/65.2	57.4/55.3	2	R-410A	NATURAL GAS	126.7/181	126.1	208/3/60	49.0	60A	EQUAL TO CARRIER 48PG09 W/ OPTIONS: 11 1 2 3 5 6 7 8 9 10 11 12 16 18
	E-1	57,900	47,060	105	2,000	400	0.90	993	1.00	82.4/65.6	60.8/59.2	1	R-410A	NATURAL GAS	79.1/113	77.8	208/3/60	33.5	50A	EQUAL TO CARRIER 48PG06 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 13 18 19
1	E-2	83,110	66,040	105	3,000	300	1.00	789	1.28	80.2/65.3	56.7/55.9	2	R-410A	NATURAL GAS	95.2/136	94.8	208/3/60	43.4	50A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 13 18
	E-3	83,110	66,040	105	3,000	300	1.00	789	1.28	80.2/65.3	56.7/55.9	2	R-410A	NATURAL GAS	95.2/136	94.8	208/3/60	43.4	50A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 13 18
	F-1	46,300	34,500	105	1,600	320	1.00	931	0.72	82.4/65.6	62.6/56.1	1	R-410A	NATURAL GAS	52.5/75.0	51.7	208/3/60	29.3	40A	EQUAL TO CARRIER 48PG05 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 13 18
	F-2	55,000	52,800	105	2,000	200	0.90	1050	1.10	85.5/66.0	62.8/58.9	1	R-410A	NATURAL GAS	105/151	103.9	208/3/60	39.4	50A	EQUAL TO CARRIER 48PG07 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 13 18
	F-3	55,000	52,800	105	2,000	200	0.90	1050	1.10	85.5/66.0	62.8/58.9	1	R-410A	NATURAL GAS	105/151	103.9	208/3/60	39.4	50A	EQUAL TO CARRIER 48PG07 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 13 18
	F-4	83,110	66,040	105	3,000	525	1.00	789	1.28	80.2/65.3	56.7/55.9	2	R-410A	NATURAL GAS	126.7/181	126.1	208/3/60	43.3	50A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 13 15 18 19
	F-5	83,110	66,040	105	3,000	525	1.00	789	1.28	80.2/65.3	56.7/55.9	2	R-410A	NATURAL GAS	126.7/181	126.1	208/3/60	43.3	50A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 13 15 18 19
	F-6	65,320	50,793	105	2,000	600	.90	990	1.00	84.6/65.9	61.3/58.6	1	R-410A	NATURAL GAS	79.1/113	77.8	208/3/60	37.1	50A	EQUAL TO CARRIER 48PG07 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 13 17 18 19
	F-7	81,500	65,000	105	2,475	675	0.90	720	.85	83.9/65.6	59.5/58.2	1	R-410A	NATURAL GAS	95.2/136	94.8	208/3/60	43.4	50A	EQUAL TO CARRIER 48PG08 W/ OPTIONS: 1 2 3 5 6 7 8 9 10 11 12 13 17 18 19
6	K-1	19,700	10,500	105	800	80	0.75	789	1.00	82.4/65.6	62.6/56.1	1	R-410A	NATURAL GAS	35.7/51.0	41.3	208/1/60	21.9	30A	EQUAL TO CARRIER 48PG03 W/ OPTIONS: 11 1 2 3 5 6 7 8 9 11 12 13 18

OPTIONS: (1) LEEDS COMPLIANT (2) COMFORT LINK CONTROLS (3) POWERED CONVENIENCE OUTLET (4) 2-POSITION OUTSIDE AIR DAMPER (5) ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL (6) CONDENSOR COIL HAIL GUARD GRILLE (7) MERV 8 PLEATED RETURN AIR FILTERS (8) EXTRA SET OF RETURN AIR FILTERS (9) FAN AND PLUGGED FILTER SWITCH (10) PHASE LOSS PROTECTION (11) STAINLESS STEEL HEAT EXCHANGER (12) 14" HIGH FACTORY ROOF CURB (13) ELECTRONIC PROGRAMMABLE THERMOSTAT (14) BAROMETRIC RELIEF DAMPER (15) CO2 SENSOR (16) SPACE TEMPERATURE SENSOR (17) HUMIDI-MIZER SYSTEM (18) NATURAL GAS ALTITUDE KIT (19) OUTDOOR AIR THERMOSTAT HH22AG106

SEE SHEET MD-101 AND MD-103 FOR ADDITIONAL MECHANICAL EQUIPMENT SCHEDULES

DESIGN CONDITIONS

	WINTER	SUMMER
OUTSIDE TEMPERATURE	+24 DEG. F	98 DEG. F. D.B./68 DEG. F.W.B.
INSIDE TEMPERATURE	+72 DEG. F	78 DEG. F. D.B./65 DEG. F.W.B.

CONDENSER ENTERING AIR TEMPERATURE = 105 DEG. F.

* ALTITUDE: 3600 FT. ABOVE SEA LEVEL. SCHEDULED HEAT OUTPUTS DERATED 15 PERCENT FOR ALTITUDE ADJUSTMENT.

19

DUCT FREE HVAC SPLIT SYSTEMS

INDOOR UNITS

DESIGNATION	TYPE	CFM	D.X. COIL: GROSS TOTAL COOLING CAP.	D.X. COIL: GROSS SENS. COOLING CAP.	D.X. COIL: ENT. WET BULB TEMP. – °F	D.X. COIL: INSTANTANEOUS HEATING RATING	ELECTRICAL: F.L.A.	ELECTRICAL: VOLTAGE/ PHASE/HZ.	SELECTION BASED ON (MANUFACTURER AND MODEL NUMBER) – OPTIONS
HIGHWALL FAN/COIL UNIT	HEAT PUMP	750	18,700 BTUH	18,200 BTUH	62	11,000 BTUH	0.4	208/230/1/60	CARRIER 40MVQ 024 W/OPTIONS (1) (2)

OPTIONS: (1) WIRELESS CONTROLLER (2) CONDENSATE PUMP (MOUNTED REMOTE)

OUTDOOR UNITS

DESIGNATION	SERVES	REFRIGERANT	COOLING: CAPACITY BTUH	COOLING: CONDENSER E.A.T.–°F	COOLING: SEER	HEATING: CAPACITY BTUH	ELECTRICAL: MCA	ELECTRICAL: MOCP	ELECTRICAL: VOLTAGE/ PHASE/HZ.	SELECTION BASED ON (MANUFACTURER AND MODEL NUMBER) – OPTIONS
HEAT PUMP #1	HIGHWALL FAN/ COIL UNIT	R-410A	20,000	105	--	15,000	14	25	208/230/1/60	CARRIER 38MVQ 024 W/OPTIONS (3) (4) (5) (6)

OPTIONS: (3) WIND BAFFLE (4) LOW AMBIENT CONTROLS TO –20°F (5) CRANKCASE HEATER (6) COMPRESSOR EXTENDED WARRANTY YEARS 6 THRU 10

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RECORD DOCUMENTS

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Dallas, Texas 75204
Registration #F-1352

FORT BLISS LIFESTYLE CENTER
EL PASO TX

CONSTRUCTION SET
01.23.2009

DRAWINGS REVISED TO SHOW AS-BUILT CONDITIONS
DATE: 10.20.10
BY: H.J./T.H.

No.	Date	Item
1		
6	05/21/09	RFQ #6
11	10/09/09	RFQ #11
19	2/12/10	RFQ #19

REVISIONS

GK Drawn
BN/TH Checked
KB Approved

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01.23.09

MECHANICAL SCHEDULES

AAFES Project No. 3770-06-000013
GFF Project No. 06169.00

Construction Set 01.23.2009

MD102

RECORD DRAWING

KA # 07355

EQUIPMENT SCHEDULES

GRILLES AND DIFFUSERS

MARK	DUTY	TYPE	SIZE NECK	SIZE FACE	FINISH	ACCY.	MANUFACTURER & MODEL NUMBER	REMARKS
A	SUPPLY	CEILING	6"ø	12"X12"	26	AG-75AA	TITUS TMS-AA	TYPE 1 BORDER
B	SUPPLY	CEILING	8"ø	12"X12"	26	AG-75AA	TITUS TMS-AA	TYPE 1 BORDER
C	SUPPLY	CEILING	6"ø	24"X24"	26	---	TITUS TMS	TYPE 3 BORDER
D	SUPPLY	CEILING	8"ø	24"X24"	26	---	TITUS TMS	TYPE 3 BORDER
E	SUPPLY	CEILING	10"ø	24"X24"	26	---	TITUS TMS	TYPE 3 BORDER
F	SUPPLY	CEILING	12"ø	24"X24"	26	---	TITUS TMS	TYPE 3 BORDER
G	SUPPLY	CEILING	6"ø	24"X24"	26	---	TITUS PDS	TYPE 3 BORDER
H	SUPPLY	CEILING	8"ø	24"X24"	26	---	TITUS PDS	TYPE 3 BORDER
J	SUPPLY	CEILING	10"ø	24"X24"	26	---	TITUS PDS	TYPE 3 BORDER
K	SUPPLY	CEILING	12"ø	24"X24"	26	---	TITUS PDS	TYPE 3 BORDER
L	SUPPLY	CEILING	14"ø	24"X24"	26	---	TITUS PDS	TYPE 3 BORDER
M	SUPPLY	CEILING	16"ø	24"X24"	26	---	TITUS PDS	TYPE 3 BORDER
N	SUPPLY	SIDEWALL	18"x10"	20"x12"	26	---	TITUS 272RS	TYPE 1 BORDER
P	SUPPLY	SIDEWALL	24"x10"	26"x12"	26	---	TITUS 272RS	TYPE 1 BORDER
Q	SUPPLY	SIDEWALL	10"x10"	12"x12"	01	---	TITUS 272RS	TYPE 1 BORDER
R	SUPPLY	SIDEWALL	12"x8"	14"x10"	01	AG-35-AA	TITUS 122RS	TYPE 1 BORDER
S	EXHAUST	CEILING	14"x14"	16"x16"	26	AG-35-AA	TITUS 50F	1/2"x1/2"x1"DEEP GRID W/ TYPE 1 BORDER
T	EXHAUST	CEILING	8"x8"	10"x10"	26	AG-35-AA	TITUS 50F	1/2"x1/2"x1"DEEP GRID W/ TYPE 1 BORDER
U	RETURN	SIDEWALL	12"x6"	14"x8"	26	---	TITUS 355FL	TYPE 1 BORDER
V	RETURN	SIDEWALL	18"x6"	20"x8"	26	---	TITUS 355FL	TYPE 1 BORDER
W	RETURN	CEILING	10"x10"	12"x12"	26	---	TITUS 50F	1/2"x1/2"x1"DEEP GRID W/ TYPE 1 BORDER
X	RETURN	CEILING	12"x12"	14"x14"	26	---	TITUS 50F	1/2"x1/2"x1"DEEP GRID W/ TYPE 1 BORDER
Y	RETURN	CEILING	14"x14"	16"x16"	26	---	TITUS 50F	1/2"x1/2"x1"DEEP GRID W/ TYPE 1 BORDER
Z	RETURN	CEILING	48"x48"	48"x48"	26	---	TITUS 50F	1/2"x1/2"x1"DEEP GRID W/ TYPE 3 BORDER
AA	RETURN	CEILING	48"x24"	48"x24"	26	---	TITUS 50F	1/2"x1/2"x1"DEEP GRID W/ TYPE 3 BORDER
BB	RETURN	CEILING	24"x24"	24"x24"	26	---	TITUS 50F	1/2"x1/2"x1"DEEP GRID W/ TYPE 3 BORDER
CC	SUPPLY	SIDEWALL	12"x10"	14"x12"	26	AG-35-AA	TITUS 272FS	TYPE 1 BORDER
DD	RETURN	SIDEWALL	30"x6"	32"x8"	26	---	TITUS 355FL	TYPE 1 BORDER
EE	SUPPLY	SIDEWALL	18"x8"	20"x10"	01	AG-35-AA	TITUS 122RS	TYPE 1 BORDER
FF	SUPPLY	SIDEWALL	26x10"	20"x10"	01	AG-35-AA	TITUS 122RS	TYPE 1 BORDER 18
GG	SUPPLY	CEILING	12"ø	24x24"	26	AG-65	TITUS TMS	TYPE 1 BORDER
HH	SUPPLY	CEILING	14"X8"	16"X10"	26	AG-35-AA	TITUS 250-S2	TYPE 1 BORDER
JJ	SUPPLY	CEILING	14"X8"	16"X10"	26	AG-35-AA	TITUS 250-L1	TYPE 1 BORDER
KK	SUPPLY	CEILING	14"X8"	16"X10"	26	AG-35-AA	TITUS 250-L2	TYPE 1 BORDER
LL	SUPPLY	CEILING	4' LONG - (2) 1" SLOTS	–	26	---	TITUS ML-39	TYPE 1B BORDER W/ END BORDER
MM	RETURN	SIDEWALL	24"x12"	26"x14"	26	---	TITUS 355FL	TYPE 1 BORDER
NN	RETURN	CEILING	48"x24"	48"x24"	26	---	TITUS 50F	1/2"x1/2"x1"DEEP GRID W/ TYPE 3 BORDER
PP	SUPPLY	CEILING	8"ø	24"X24"	26	AG-75AA	TITUS TMS-AA	TYPE 1 BORDER
QQ	SUPPLY	CEILING	10"ø	24"X24"	26	AG-75AA	TITUS TMS-AA	TYPE 1 BORDER
RR	SUPPLY	CEILING	5' LONG - (2) 1" SLOTS	–	26	---	TITUS ML-39	TYPE 1B BORDER W/ END BORDER
SS	SUPPLY	SIDEWALL	12"x6"	14"x8"	26	AG-35-AA	TITUS 272FS	TYPE 1 BORDER
TT	SUPPLY	SIDEWALL	10"x6"	12"x8"	01	---	TITUS 272RL	TYPE 1 BORDER
UU	SUPPLY	SIDEWALL	16"x12"	18"x14"	01	---	TITUS 272RL	TYPE 1 BORDER
V V	SUPPLY	CEILING	12"ø	22"ø	01	AG-75	TITUS TMR	–
WW	SUPPLY	CEILING	14"ø	26"ø	01	AG-75	TITUS TMR	–
XX	SUPPLY	CEILING	8"ø	15"ø	01	AG-75	TITUS TMR	–
YY	SUPPLY	CEILING	6"x6"	8"x8"	01	AG-15	TITUS 250-L1	TYPE 1 BORDER
ZZ	EXHAUST	SIDEWALL	18"x30"	20"x32"	26	---	TITUS 355RS	TYPE 1 BORDER
1 AAA	SUPPLY	CEILING	5' LONG - (2) 1" SLOTS	–	26	---	TITUS MP-39	TYPE 1B BORDER W/ END BORDER

DOMESTIC HOT WATER CIRCULATING PUMPS

DESIGNATION	G.P.M.	HEAD FEET	R.P.M.	H.P.	VOLTAGE / PHASE	REMARKS
HWC-B1	10	20	3300	1/6	120/1	EQUAL TO BELL & GOSSETT PL-45, CLOSE-COUPLED DRY MOTOR, BRONZE BODY IN-LINE CIRCULATOR W/ AQUASTAT CONTROLLER
HWC-B2	10	20	3300	1/6	120/1	EQUAL TO BELL & GOSSETT PL-45, CLOSE-COUPLED DRY MOTOR, BRONZE BODY IN-LINE CIRCULATOR W/ AQUASTAT CONTROLLER
HWC-F1	10	10	3500	1/12	120/1	EQUAL TO BELL & GOSSETT SERIES 100 CLOSE-COUPLED, ALL BRONZE IN-LINE CIRCULATOR W/ AQUASTAT CONTROLLER
HWC-F2	10	20	3300	1/6	120/1	EQUAL TO BELL & GOSSETT PL-45, CLOSE-COUPLED DRY MOTOR, BRONZE BODY IN-LINE CIRCULATOR W/ AQUASTAT CONTROLLER
HWC-F3	10	20	3300	1/6	120/1	EQUAL TO BELL & GOSSETT PL-45, CLOSE-COUPLED DRY MOTOR, BRONZE BODY IN-LINE CIRCULATOR W/ AQUASTAT CONTROLLER

GAS FIRED WATER HEATERS

DESIGNATION	BTUH INPUT @ 3000 FT. ELEVATION	STORAGE CAPACITY-GALLONS	MAXIMUM 1ST HOUR DELIVERY GALLONS	E.W.T. °F	L.W.T. °F	RECOVERY GPH	MANUFACTURER/MODEL No.
W.H.-A1	120,000	70	166	40	105	200	A.O. SMITH BTR-120
W.H.-B1	390,000	100	450	110	140	940	A.O. SMITH BTR-400
W.H.-B2	500,000	85	545	40	110	840	A.O. SMITH BTR-500
W.H.-B3	40,000	50	–	40	110	45	A.O. SMITH XGV-50
W.H.-B4	40,000	40	–	40	110	35	A.O. SMITH XGV-40 6
W.H.-D1	40,000	40	–	40	110	35	A.O. SMITH XGV-40
W.H.-E1	40,000	40	–	40	110	35	A.O. SMITH XGV-40
W.H.-E2	40,000	40	–	40	110	35	A.O. SMITH XGV-40 1
W.H.-F1	40,000	40	–	40	110	35	A.O. SMITH XGV-40
W.H.-F2	390,000	100	450	40	120	650	A.O. SMITH BTR-400
W.H.-F3	154,000	81	206	40	120	224	A.O. SMITH BTR-154

FANS

MARK	DUTY	CFM	TOTAL S.P. ("Wg")	DRIVE	WHEEL TYPE	FAN RPM	MOTOR DATA RPM	MOTOR DATA H.P.	MOTOR DATA VOLT/PHASE	SELECTION BASED ON MANUFACTURER / MODEL NUMBER/NOTES & OPTIONS
A-EF-1	ADMIN RESTROOM/ LOCKERRM./JANITOR	1,660	0.375	BELT	CENT.	865	1,760	0.25	120/1	GREENHECK GB161 ① ⑤ ⑥ ⑦
A-EF-2	CUSTOMER SERVICE PUBLIC RESTROOM	1,200	0.375	BELT	CENT.	1,260	1,760	0.25	120/1	GREENHECK GB121 ① ⑤ ⑥ ⑦
A-EF-3	MALL PUBLIC RESTROOM	1,200	0.375	BELT	CENT.	1,260	1,760	0.25	120/1	GREENHECK GB121 ① ⑤ ⑥ ⑦
B-EF-1	TACO BELL HOOD EXHAUST	1,700	1.5	BELT	CENT.	1,186	1,760	1.0	208/3	CAPTIVE AIRE NCA16HPFA ① ③ ⑧
B-EF-2	ANTHONY'S HOOD EXHAUST	1,500	1.5	BELT	CENT.	1,163	1,760	1.0	208/3	CAPTIVE AIRE NCA16HPFA ① ③
B-EF-3	CHARLEY'S HOOD EXHAUST	4,400	1.5	BELT	CENT.	880	1,760	3.0	208/3	CAPTIVE AIRE NCA24FA ① ③ ⑨
B-SF-4	CHARLEY'S MAKE-UP AIR	1,650	0.50	BELT	CENT.	603	1,760	0.5	208/3	CAPTIVE AIRE G12/A2 ① ③ ⑩
B-EF-5	MANCHU WOK HOOD EXHAUST #1	2,500	1.5	BELT	CENT.	1,148	1,760	1.5	208/3	CAPTIVE AIRE NCA18HPFA ① ③ ⑪
B-EF-6	MANCHU WOK HOOD EXHAUST #2	2,500	1.5	BELT	CENT.	1,148	1,760	1.5	208/3	CAPTIVE AIRE NCA18HPFA ① ③ ⑪
B-SF-7	MANCHU WOK MAKE UP AIR	2,500	0.60	BELT	CENT.	696	1,760	1.5	208/3	CAPTIVE AIRE G12/A2 ① ③ ⑫
B-EF-8	BURGER KING HOOD EXHAUST	2,200	3.10	BELT	CENT.	2,018	1,760	2.0	208/3	LOREN COOK 150 CPS ② ④ ⑬
B-EF-9	DISHWASHER HOOD EXHAUST	600	0.5	BELT	CENT.	1,185	1,760	0.25	208/3	GREENHECK GB101 ① ⑤ ⑥ ⑦ ⑭
B-EF-10	FOOD PREP. TOILET EXHAUST	400	0.375	BELT	CENT.	1,250	1,760	0.25	208/3	GREENHECK GB081 ① ⑤ ⑥ ⑦ ⑮
B-EF-11	FOOD COURT PUBLIC TOILETS	1,375	0.375	BELT	CENT.	770	1,760	0.25	208/3	GREENHECK GB161 ① ⑤ ⑥ ⑦ ⑯
B-EF-12	BASKIN ROBBINS ICE MACHINE HEAT EXH.	400	0.375	BELT	CENT.	1,250	1,760	0.25	208/3	GREENHECK GB081 ① ⑤ ⑥ ⑦ ⑳ 6
D-EF-1	MCSS EMPLOYEE TOILETS / JANITOR	500	0.375	BELT	CENT.	1,062	1,760	0.25	120/1	GREENHECK GB091 ① ⑤ ⑥ ⑦
E-EF-1	DRY CLEANER EMPLOYEE TOILET	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰
E-EF-2	CLASS VI TOILETS / JANITOR	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰ 1
F-EF-1	UPS TOILET	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰
F-EF-2	UPS JAN. CLOSET	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰
F-EF-3	OPTICAL SHOP TOILET	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰
F-EF-4	OPTOMITRIST TOILET	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰
F-EF-5	BARBER SHOP TOILET	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰
F-EF-6	BARBER SHOP TOILET	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰
F-EF-7	BARBER SHOP GEN. EXHAUST	600	0.500	BELT	CENT.	1,185	1,760	0.25W	208/3	GREENHECK GB101 ① ⑤ ⑥ ⑦ ⑱
F-EF-8	BEAUTY SHOP TOILET	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰
F-EF-9	BEAUTY SHOP TOILET	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰
F-EF-10	BEAUTY SHOP NAIL CARE	1000	0.375	BELT	CENT.	689	1,760	0.25	208/3	GREENHECK GB161 ① ⑤ ⑥ ⑦ ⑲
F-EF-11	OPTICAL SHOP WORK ROOM	200	0.375	BELT	CENT.	1,200	1,200	0.25	120/1	GREENHECK GB070 ① ⑤ ⑥ ⑦ ㉑
K-EF-1	SECURITY OFFICE RESTROOM	150	0.375	DIRECT	CENT.	1,050	1,050	129W	120/1	GREENHECK SP-B150 ① ⑰
AIR CURTAIN #1	DOOR B-126	1800	–	DIRECT	CENT.	–	–	2.6A	120/1	MARS AIR SYSTEMS LPN72 ① ㉒ 24

NOTES, OPTIONS AND DESCRIPTION OF INTERLOCKS:

① CONTRACTOR FURNISHED/CONTRACTOR INSTALLED.
② AAFES FURNISHED/CONTRACTOR INSTALLED.
③ FAN FURNISHED WITH CONTRACTOR FURNISHED KITCHEN VENTILATION SYSTEM. REFER TO DETAILS AND SCHEDULES ON PLAN SHEETS B-M104 – B-M108.
④ FAN FURNISHED WITH AAFES FURNISHED KITCHEN VENTILATION SYSTEM. REFER TO DETAILS AND SCHEDULES ON PLAN SHEETS B-M109 – B-M112.
⑤ 12" HIGH MODEL GP1 ALUMINUM PRE-FAB CURB.
⑥ GRAVITY BACKDRAFT DAMPER.
⑦ DISCONNECT SWITCH.
⑧ HARDWIRE INTERLOCK W/ROOFTOP A.C. UNIT B8 THROUGH EXHAUST SYSTEM CONTROL PANEL-SEE SCHEMATIC ON SHEET B-M108.
⑨ HARDWIRE INTERLOCK W/ROOFTOP A.C. UNIT B9 THROUGH EXHAUST SYSTEM CONTROL PANEL-SEE SCHEMATIC ON SHEET B-M108.
⑩ HARDWIRE INTERLOCK W/EXHAUST FAN B-EF3 THROUGH EXHAUST SYSTEM CONTROL PANEL-SEE SCHEMATIC ON SHEET B-M108. 6
⑪ HARDWIRE INTERLOCK W/ROOFTOP A.C. UNIT B11 THROUGH EXHAUST SYSTEM CONTROL PANEL-SEE SCHEMATIC ON SHEET B-M108.
⑫ HARDWIRE INTERLOCK W/EXHAUST FANS B-EF5 & B-EF6 THROUGH EXHAUST SYSTEM CONTROL PANEL-SEE SCHEMATIC ON SHEET B-M108.
⑬ HARDWIRE INTERLOCK W/ROOFTOP A.C. UNIT B12 THRU AAFES FURNISHED VENTILATION CONTROLS.
⑭ HARDWIRE INTERLOCK W/ DISHMACHINE THROUGH DISHMACHINE CONTROL PANEL.
⑮ HARDWIRE INTERLOCK W/ROOFTOP A.C. UNIT B7 THROUGH MOTOR STARTER AUXILLARY CONTACTS.
⑯ HARDWIRE INTERLOCK W/ROOFTOP A.C. UNIT B13 THROUGH MOTOR STARTER AUXILLARY CONTACTS.
⑰ MODEL GRS ROOF CAP.
⑱ HARDWIRE INTERLOCK W/ ROOFTOP A.C. UNIT F4 THROUGH MOTOR STARTER AUXILLARY CONTACTS.
⑲ HARDWIRE INTERLOCK W/ ROOFTOP A.C. UNIT F7 THROUGH MOTOR STARTER AUXILLARY CONTACTS. 6
⑳ HARDWIRE INTERLOCK W/ROOFTOP A.C. UNIT B-16 THROUGH MOTOR STARTER AUXILLARY CONTACTS.
1 ㉑ PROVIDE WITH WALL MOUNTED PILOT LIGHT SWITCH.
24 ㉒ PROVIDE WITH DOOR LIMIT SWITCHES FOR FIELD INSTALLATION; ALUMINUM MESH FILTER AND WHITE FINISH.

ELECTRIC UNIT HEATERS

LOCATION	DESIGNATION	FAN CFM	BTUH OUTPUT (EACH)	K.W. INPUT (EACH)	VOLTAGE / PHASE	AMPERAGE	MANUFACTURER, MODEL NUMBER AND ACCESSORIES
BUILDING B	EUH-B1 THRU EUH-B3	350	17,000	5	208 / 3 PHASE	14.0	MARLEY Q-MARK MUH05-81 WITH INTERNAL MT-2 THERMOSTAT FACTORY WIRED AND SET AT 40 DEGREES F.
BUILDING B	EUH-B4	350	10.200	3	208 / 1 PHASE	14.5	MARLEY Q-MARK MUH03-81 WITH INTERNAL MT-1 THERMOSTAT FACTORY WIRED AND SET AT 40 DEGREES F.
BUILDING C	EUH-C1 1	350	10.200	3	208 / 1 PHASE	14.5	MARLEY Q-MARK MUH03-81 WITH INTERNAL MT-1 THERMOSTAT FACTORY WIRED AND SET AT 40 DEGREES F.
							11
BUILDING D	EUH-D10	350	10.200	3	208 / 1 PHASE	14.0	MARLEY Q-MARK MUH03-81 WITH INTERNAL MT-1 THERMOSTAT FACTORY WIRED AND SET AT 40 DEGREES F.
BUILDING D	EUH-D1 THRU EUH-D9	350	17.000	5	208 / 3 PHASE	14.0	MARLEY Q-MARK MUH05-81 WITH INTERNAL MT-2 THERMOSTAT FACTORY WIRED AND SET AT 40 DEGREES F. 1
BUILDING G	EUH-G1 1	350	10.200	3	208 / 1 PHASE	14.0	MARLEY Q-MARK MUH03-81 WITH INTERNAL MT-1 THERMOSTAT FACTORY WIRED AND SET AT 40 DEGREES F.
							11
BUILDING K	EUH-K1 1	350	10.200	3	208 / 1 PHASE	14.0	MARLEY Q-MARK MUH03-81 WITH INTERNAL MT-1 THERMOSTAT FACTORY WIRED AND SET AT 40 DEGREES F.
							11

SOUND ATTENUATORS

MARK	DUTY	SERVES	(QUANTITY)-(WIDTHxHEIGHTxLENGTH)	CFM-EA.	ENT. FACE VEL.-FPM	MAX. S.P. "Wd	MIN. DYNAMIC INSERTION LOSS (db. 250 Hz.)	SELECTION BASED ON (MANUFACTURER / MODEL NO.)
SA-B1	RETURN	ROOF TOP A.C.-B1	(2)- (24"x18"x84")	2340	780	0.41	42	INDUSTRIAL ACOUSTICS CO. MODEL 7LFS
SA-B2	RETURN	ROOF TOP A.C.-B2	(2)- (24"x18"x84")	2750	915	0.52	43	INDUSTRIAL ACOUSTICS CO. MODEL 7LFS
SA-B3	RETURN	ROOF TOP A.C.-B3	(2)- (24"x18"x84")	2500	830	0.43	43	INDUSTRIAL ACOUSTICS CO. MODEL 7LFS
SA-B4	RETURN	ROOF TOP A.C.-B4	(2)- (24"x18"x84")	2375	790	0.41	42	INDUSTRIAL ACOUSTICS CO. MODEL 7LFS
SA-B5	RETURN	ROOF TOP A.C.-B5	(2)- (24"x18"x84")	2915	970	0.64	43	INDUSTRIAL ACOUSTICS CO. MODEL 7LFS
SA-B6	RETURN	ROOF TOP A.C.-B6	(2)- (24"x18"x84")	2725	900	0.52	43	INDUSTRIAL ACOUSTICS CO. MODEL 7LFS

GAS FIRED UNIT HEATERS

LOCATION	DESIGNATION	FAN CFM	MBH OUTPUT (EACH)	MBH INPUT (EACH)	VOLTAGE / PHASE	AMPERAGE	MANUFACTURER, MODEL NUMBER AND ACCESSORIES
BUILDING A	EUH-A1 AND EUH-A2	650	40,000	50,000	115 / 3 PHASE	1.3	REZNOR F-50 EQUIPPED FOR HIGH ALTITUDE

SEE SHEET MD-101 AND MD-102 FOR ADDITIONAL MECHANICAL EQUIPMENT SCHEDULES.

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Registration #F-1352

FORT BLISS LIFESTYLE CENTER
EL PASO TX

CONSTRUCTION SET
01.23.2009

DRAWINGS REVISED TO SHOW AS-BUILT CONDITIONS
DATE: 10.20.10
BY: H.J./T.H.

No.	Date	Item
1		RFQ #1
6	05/21/09	RFQ #6
10	09/25/09	RFQ #10
11	10/09/09	RFQ #11
24	04/30/10	RFQ #24

REVISIONS

GK Drawn
BNTH Checked
KB Approved

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01.23.09

MECHANICAL SCHEDULES

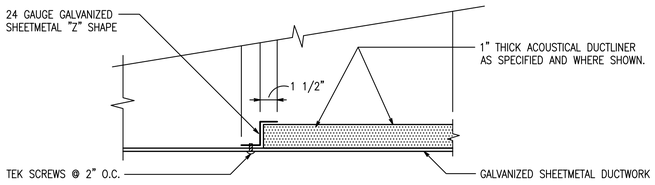
AAFES Project No. 3770-06-000013
GFF Project No. 06169.00

Construction Set 01.23.2009

MD103

RECORD DRAWING

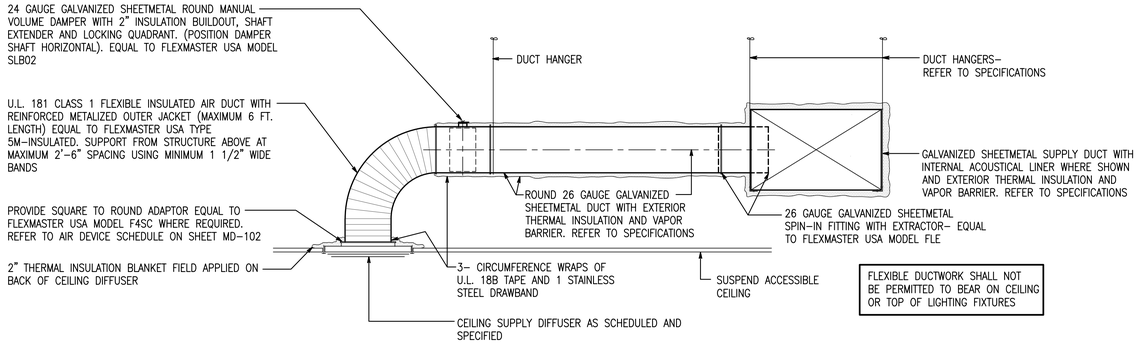
KA # 07355



THIS DETAIL TYPICAL FOR SUPPLY AND RETURN DUCT APPLICATIONS.

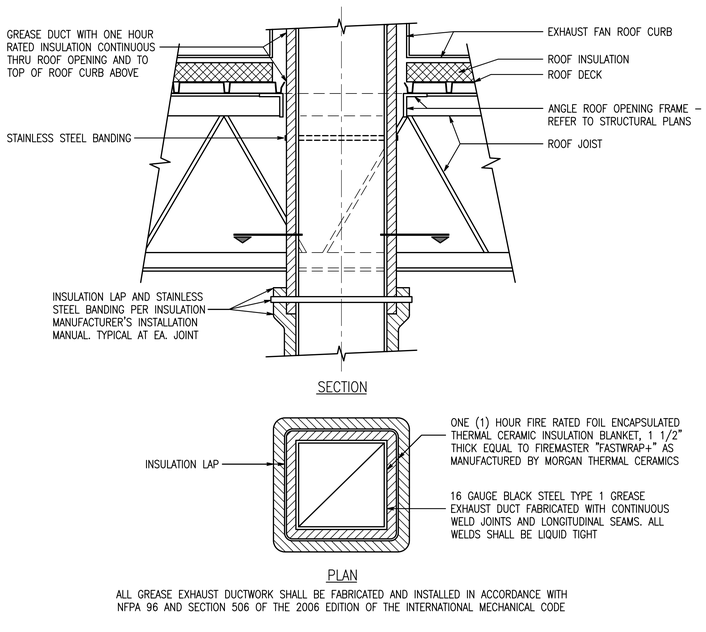
05 DUCT LINER TERMINATION DETAIL

NOT TO SCALE



01 DETAIL- BRANCH DUCT CONNECTION TO CEILING SUPPLY DIFFUSER

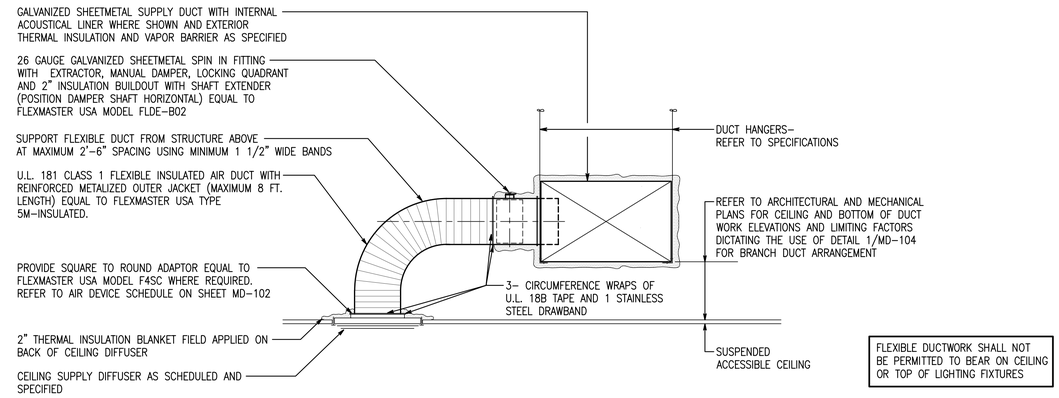
NOT TO SCALE



ALL GREASE EXHAUST DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH NFPA 96 AND SECTION 506 OF THE 2006 EDITION OF THE INTERNATIONAL MECHANICAL CODE

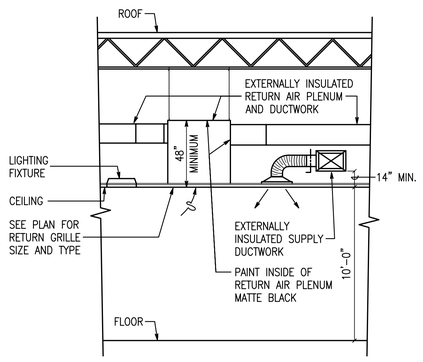
06 DETAIL - GREASE EXHAUST DUCTWORK

NOT TO SCALE



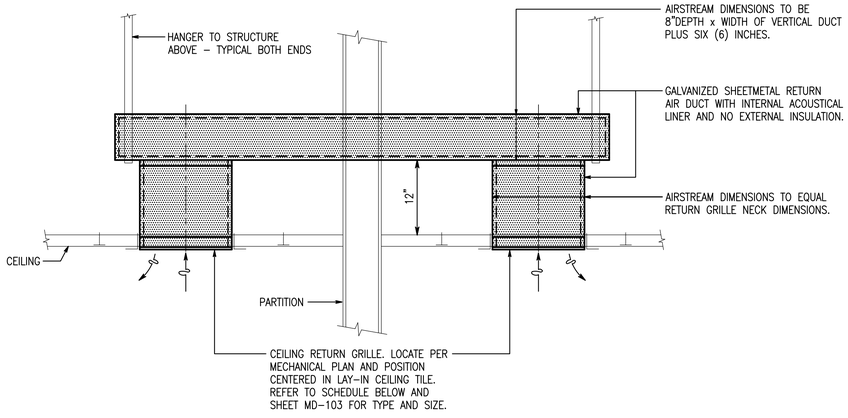
02 FLEXIBLE DUCT INSTALLATION DETAIL AT CEILING SUPPLY DIFFUSER

NOT TO SCALE



07 FOOD PREP RETURN AIR GRILLE DETAIL

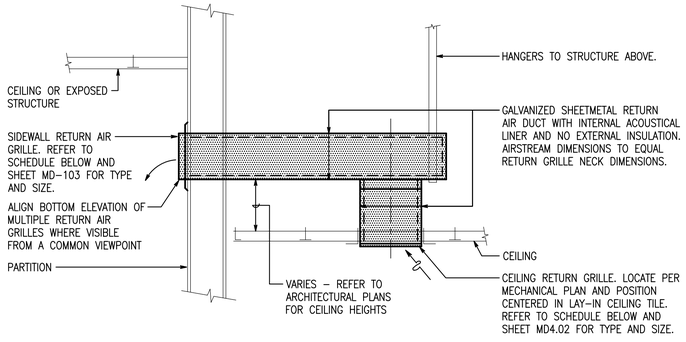
NOT TO SCALE



SCHEDULE		
TYPE	CEILING GRILLE TYPE	REMARKS
a	W	REFER TO SHEET MD-103
b	X	REFER TO SHEET MD-103
c	Y	REFER TO SHEET MD-103

04 RETURN AIR TRANSFER BOOT SCHEDULE AND DETAIL

NOT TO SCALE



SCHEDULE			
TYPE	SIDEWALL GRILLE TYPE	CEILING GRILLE TYPE	REMARKS
1	U	W	REFER TO SHEET MD-103
2	V	X	REFER TO SHEET MD-103
3	DD	Y	REFER TO SHEET MD-103

03 RETURN AIR TRANSFER BOOT SCHEDULE AND DETAIL

NOT TO SCALE

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01.23.09

MECHANICAL DETAILS

AAFES Project No. 3770-06-000013
GFF Project No. 06169.00

Construction Set 01.23.2009

MD104

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KA # 07355