

Construction Bulletin # 07

Client: Abla Griffin Partnership
Project Name: MPS Daycare
Project Number: 2450-70304-00

April 2, 2025

Requested by: ☒ Owner
 ☐ Contractor:
 ☐ Salas O'Brien:



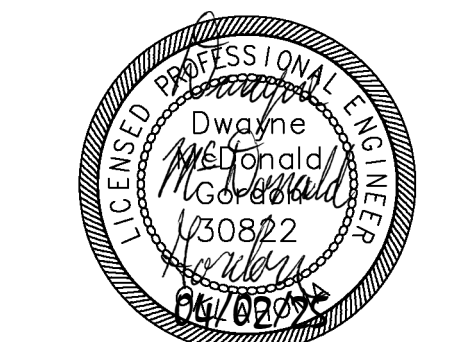
To: Mike Abla, Clay Griffin

This Construction Bulletin is issued to:

- ☒ Offer additional information for clarification or supplemental drawings for layout assistance.
- ☐ Request cost and time impact to initiate a change to the Contract Documents. Owner approval is required, do not commence with revisions unless directed in writing. Avoid Work in areas that may be affected by proposed change until approved or rejected. Once approved, forward Change Order documentation as required by the Contract Documents.
- ☐ Direct a required change in the Contract Documents. Proceed with change(s) as indicated. Forward Change Order documentation as required by the Contract Documents.
- ☐ Response to RFI ____.

Item No.	Description	Attachment
1	Refer to clouds and deltas.	M101
2	Refer to clouds and deltas.	M601

END OF CB-07

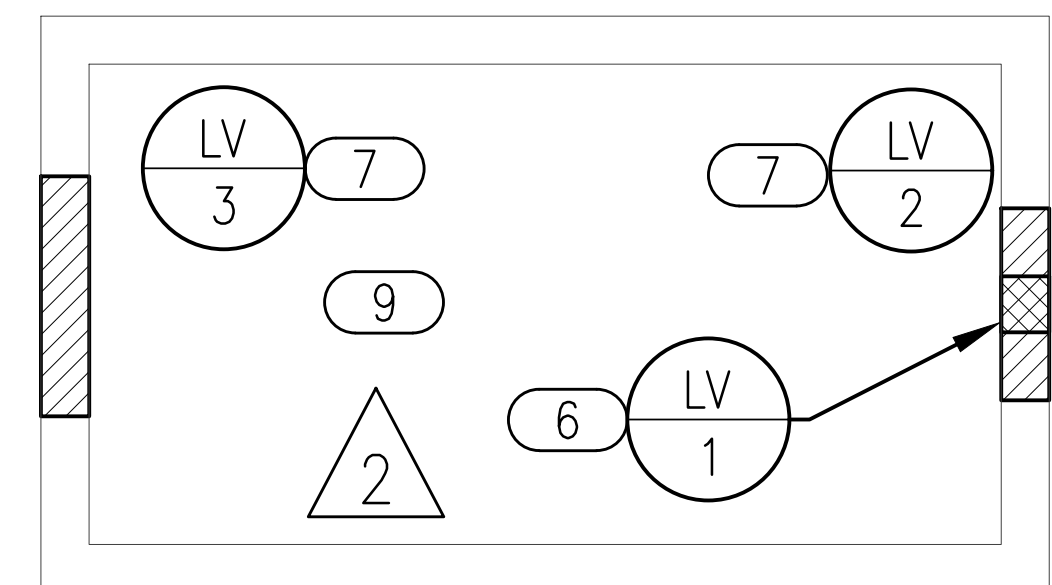


GENERAL NOTES

- COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
- COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
- ALL PENETRATIONS OVER 3 1/2" SQUARE INCHES OR 2 1/16" INCHES IN DIAMETER IN/OUT OF SHELTER REQUIRE SHROUD. REFER TO STRUCTURAL FOR ALL SHROUD DETAILS.
- M.C. IS RESPONSIBLE TO ALL STRUCTURAL REQUIRED PENETRATION PROTECTION ITEMS FOR ALL MECHANICAL SYSTEMS PENETRATING THE SHELTER.
- E.C. TO PROVIDE, LOCATE, AND INSTALL SWITCH FOR EMERGENCY VENTILATION FAN. M.C. SHALL PROVIDE CALL OUT LETTERING "EMERGENCY VENTILATION" ON PLACARD ABOVE SWITCH WITH 3/4" LETTERING FOR INSTALLATION BY GC. COORDINATE WITH GC AND EC.

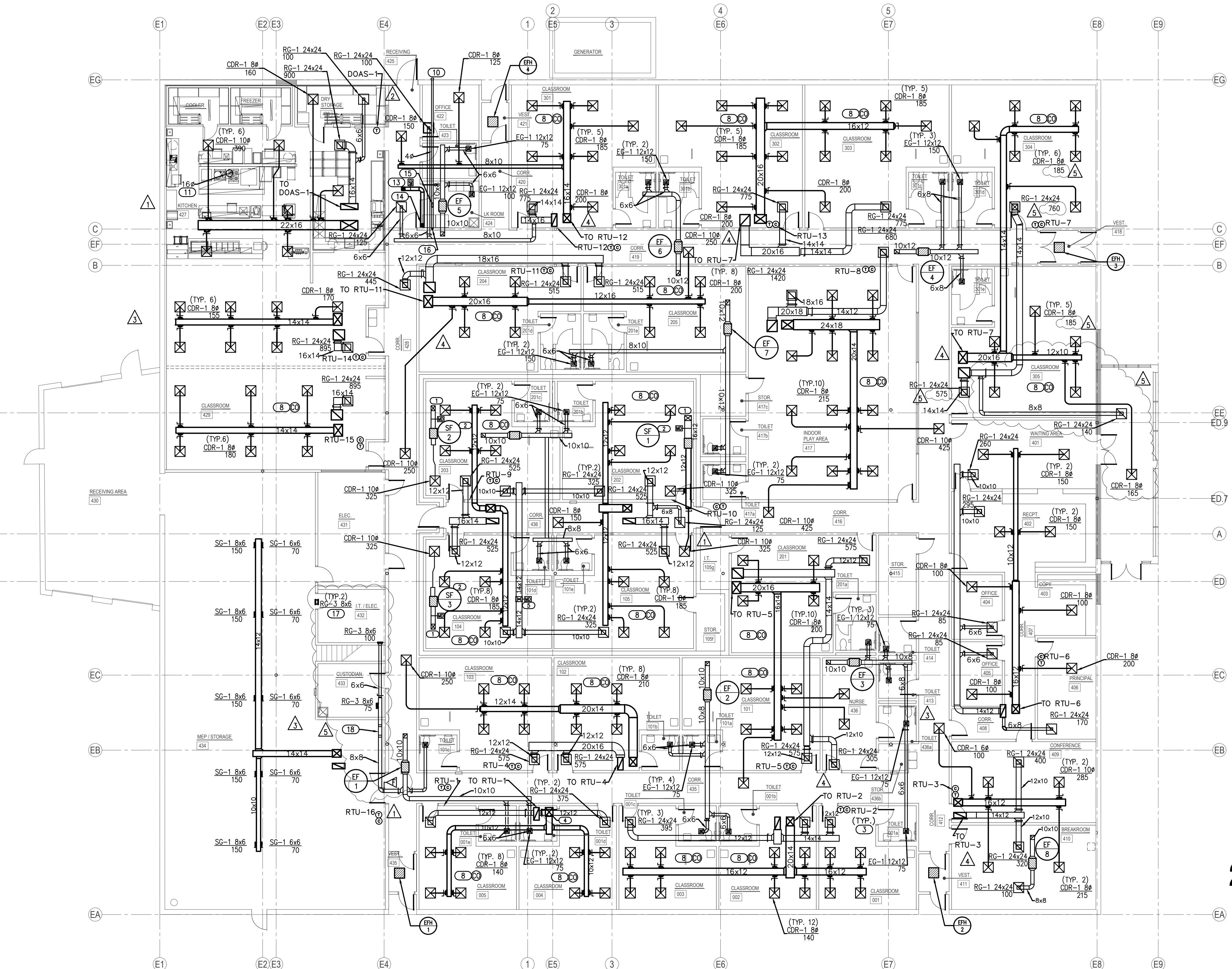
KEYED NOTES

- ROOF HOOD IS PART OF EMERGENCY VENTILATION SYSTEM. DUCT UP 16X12 TO TRANSITION INTO ROOF HOOD OPENING 18X16.
- MOTORIZED DAMPER TO BE 120V CONNECTED TO EMERGENCY POWER. DAMPER SHALL OPEN WHEN SUPPLY FAN TURNS ON.
- PROVIDE LOCKABLE COVER FOR THERMOSTAT.
- DUCT 18X20 SUPPLY AND 12X28 RETURN UP TO RTU.
- ROOF HOOD PART OF THE EMERGENCY VENTILATION SYSTEM TO PROVIDE RELIEF AIR. MOTORIZED DAMPER SHALL OPERATE ON INVERTER. INTERLOCK WITH SF-1. DUCT DOWN TO 16X12.
- MOUNT BOTTOM OF LOUVER MINIMUM 60" ABOVE LV-2. LOUVER CONNECTION FOR ENGINE EXHAUST.
- MOUNT BOTTOM OF LOUVER MINIMUM 18" AFF. LOUVER CONNECTION FOR RADIATOR EXHAUST.
- CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECTION.
- PROVIDE EXHAUST DUCT TO GENERATOR RADIATOR CONNECTION. COORDINATE DUCT SIZE WITH GENERATOR MANUFACTURER DRAWINGS.
- PROVIDE DRYER VENT EXHAUST HOOD TERMINATION AT EXTERIOR WALL IN ACCORDANCE WITH DRYER MANUFACTURER'S REQUIREMENTS. PROVIDE WALL CAP WITH BIRD FILTER.
- DUCT 14" DIA. UP TO ROOF EXHAUST FAN OPENING. TRANSITION TO HOOD COLLAR PER KITCHEN SPECIFICATIONS.
- DOAS UNIT SHALL CYCLE DOWN TO TEMPER KITCHEN WHILE HOODS ARE OFF.
- DUCT 8"x8" MAKEUP AIR DUCT TO ROOF HOOD. INTERLOCK MOTORIZED DAMPER WITH POWER OF DRYER.
- MAKEUP AIR DUCT TO BE DUCTED DOWN BEHIND DRYERS TO 20" AFF. COVER DUCT OPENING WITH 1/4" WIRE MESH.
- PROVIDE UL-705 LISTED DRYER BOOSTER FAN OF FANTECH DBF 110 OR APPROVED EQUIVALENT. FAN SHALL PROVIDE MINIMUM OF 160 CFM. INTERLOCK FAN WITH POWER OF DRYER.
- PROVIDE EXTERNAL LINT TRAP OF FANTECH DBLT 4W OR EQUIVALENT AT DRYER EXHAUST CONNECTION.
- MOUNT GRILLES ABOVE DOOR AND BELOW CEILING.
- DROP DUCT DOWN TO 8'-0" AFF TO ROUTE BELOW JANITOR CEILING AND UPPER STAIRCASE LANDING.



2 MECHANICAL GENERATOR PLAN

SCALE: 1/4" = 1'-0"

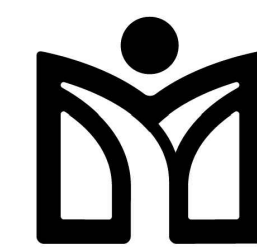


1 MECHANICAL FLOOR PLAN

SCALE: 3/32" = 1'-0"



2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2025
Salas O'Brien Project Number: 2450-70304-00



ROOF HOOD SCHEDULE

RFI	THROAT SIZE DIMENSION (N)	THROAT AREA (F ²)	DAMPER BOD OR MOD	CONSTRUCTION	MANUFACTURER & MODEL NO.	COMMENTS	NOTES
RHI-1	14X14	1.36	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHI-2	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHI-3	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHI-4	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-1	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-2	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-3	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-4	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-5	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-6	10X10	0.69	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
RHV-7	14X14	1.36	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

- M.C. TO PROVIDE ROOF HOOD WITH ALUMINUM BIRDSCREEN.
- M.C. SHALL PROVIDE ROOF CURB CURB INSTALLATION BY C.C.
- M.C. SHALL PROVIDE LOW VOLTAGE MOTORIZED DAMPER.

LOUVER SCHEDULE

RFI	CONNECTED TO	SIZE (N) WHI	MINIMUM FREE AREA (F ²)	FLANGE	CONSTRUCTION	INCLUDE MOD	MANUFACTURER AND MODEL NUMBER	COMMENTS	NOTES
1	GEN ENCLOSURE	18X18	0.71	YES	ALUMINUM	--	GREENHCK AFL-501	5" FEMA RATED LOUVER- PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENHECK ESD-403)	1-2
2	GEN ENCLOSURE	48X30	4.33	YES	ALUMINUM	--	GREENHCK AFL-501	5" FEMA RATED LOUVER- PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENHECK ESD-403)	1-2
3	GEN ENCLOSURE	60X72	14.98	YES	ALUMINUM	--	GREENHCK AFL-501	5" FEMA RATED LOUVER- PROVIDE ADDITIONAL DRAINABLE LOUVER (GREENHECK ESD-403)	1-2

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- PROVIDE PAINTED KYNAR FINISH COLOR BY ARCHITECT.
- PROVIDE BIRD SCREEN.

AIR BALANCE SCHEDULE

EXHAUST		OUTDOOR AIR	
SOURCE	CFM	SOURCE	CFM
KEF-1	2500	DOAS-1	2400
EF-1	225	RTU-1	350
EF-2	300	RTU-2	520
EF-3	375	RTU-3	280
EF-4	450	RTU-4	535
EF-5	300	RTU-5	645
EF-6	175	RTU-6	205
EF-7	300	RTU-7	700
EF-8	100	RTU-8	900
DRYER	160	RTU-9	450
--	--	RTU-10	535
--	--	RTU-11	625
--	--	RTU-12	400
--	--	RTU-13	710
--	--	RTU-14	205
--	--	RTU-15	205
--	--	RTU-16	205
TOTAL:	4885		9870

PACKAGED ROOFTOP GAS/ELECTRIC UNIT SCHEDULE

RFI	LOCATION	INPUT MBH	OUTPUT MBH	COOLING NOMINAL TONS	AMBIENT TEMP. DB/WB	MIN EER	CAPACITY STAGES	TOTAL CFM	MIN F.A. CFM	ELEC. CHWR	MCA	MOCP	ESP (N)	WEIGHT	MANUFACTURER & MODEL NUMBER	NOTES
1	ROOF-SEE PLANS	65	52	3	104 / 74	14.3	2(H)/1(C)	1100	350	208 / 3	19	25	1.0	900	LENNOX LGM036USE	1,2,4-12
2	ROOF-SEE PLANS	108	87	5	104 / 74	12.5	2(H)/1(C)	1680	520	208 / 3	26	40	1.0	905	LENNOX LGM060USE	1,2,4-12
3	ROOF-SEE PLANS	65	52	3	104 / 74	14.3	2(H)/1(C)	1100	280	208 / 3	19	25	1.0	900	LENNOX LGM036USE	1,2,4-12
4	ROOF-SEE PLANS	108	87	5	104 / 74	12.5	2(H)/1(C)	1700	535	208 / 3	26	40	1.0	905	LENNOX LGM060USE	1,2,4-12
5	ROOF-SEE PLANS	180	144	7.5	104 / 74	12.5	2(H)/1(C)	2100	645	208 / 3	46	50	1.0	1500	LENNOX LGM092USE	1-12
6	ROOF-SEE PLANS	65	52	3	104 / 74	14.3	2(H)/1(C)	1100	205	208 / 3	19	25	1.0	900	LENNOX LGM036USE	1,2,4-12
7	ROOF-SEE PLANS	180	144	7.5	104 / 74	12.5	2(H)/1(C)	2200	700	208 / 3	46	50	1.0	1500	LENNOX LGM092USE	1-12
8	ROOF-SEE PLANS	180	144	8.5	104 / 74	12.5	2(H)/1(C)	3000	900	208 / 3	48	50	1.0	1500	LENNOX LGM102USE	1-12
9	ROOF-SEE PLANS	108	87	4	104 / 74	13.2	2(H)/1(C)	1500	450	208 / 3	25	35	1.0	905	LENNOX LGM048USE	1,2,4-12
10	ROOF-SEE PLANS	108	87	5	104 / 74	12.5	2(H)/1(C)	1700	535	208 / 3	26	40	1.0	905	LENNOX LGM060USE	1,2,4-12
11	ROOF-SEE PLANS	180	144	7.5	104 / 74	12.5	2(H)/1(C)	2100	625	208 / 3	46	50	1.0	1500	LENNOX LGM092USE	1-12
12	ROOF-SEE PLANS	108	87	4	104 / 74	13.2	2(H)/1(C)	1400	400	208 / 3	25	35	1.0	905	LENNOX LGM048USE	1,2,4-12
13	ROOF-SEE PLANS	180	144	7.5	104 / 74	12.5	2(H)/1(C)	2200	710	208 / 3	46	50	1.0	1500	LENNOX LGM092USE	1-12
14	ROOF-SEE PLANS	65	52	3	104 / 74	14.3	2(H)/1(C)	1100	205	208 / 3	19	25	1.0	900	LENNOX LGM036USE	1,2,4-12
15	ROOF-SEE PLANS	65	52	3	104 / 74	14.3	2(H)/1(C)	1100	205	208 / 3	19	25	1.0	900	LENNOX LGM036USE	1,2,4-12
16	ROOF-SEE PLANS	65	52	3	104 / 74	14.3	2(H)/1(C)	1100	205	208 / 3	19	25	1.0	900	LENNOX LGM036USE	1,2,4-12

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL,

ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSARY BY PROVIDING ALTERNATE EQUIPMENT.

1. PROVIDE CONDENSER COIL HAIL GUARD.

2. PROVIDE FACTORY-INSTALLED UNIT DISCONNECT SWITCH.

3. PROVIDE FACTORY-INSTALLED RETURN DUCT SMOKE DETECTOR WITH REMOTE TEST STATION TO BE LOCATED IN OCCUPIED SPACE. INSTALLATION OF REMOTE TEST STATION AND CONNECTION TO FIRE ALARM SYSTEM BY E.C.

4. PROVIDE FACTORY-INSTALLED 120V GFCI CONVENIENCE OUTLET. GFCI POWERED FROM UNIT. RECEPTACLE SHALL BE COMPLIANT WITH NEC 210.63.

5. PROVIDE ANTI-SHORT CYCLE TIMER AND LOW AMBIENT CONTROLS.

6. PROVIDE FACTORY ROOF CURB SO THAT THE BOTTOM OF THE ROOFTOP UNIT IS A MINIMUM OF 14" ABOVE FINISHED ROOF. MOUNT LEVEL ON SLOPED ROOF.

7. PROVIDE HINGED AND TOOL-LESS ACCESS DOORS.

8. PROVIDE PHASE MONITOR.

9. PROVIDE FULL ENTHALPY ECONOMIZER WITH POWERED EXHAUST.

10. PROVIDE DIGITAL, W-FI ACCESSIBLE 7-DAY PROGRAMMABLE THERMOSTAT WITH OCCUPIED/UNOCCUPIED SETTINGS CAPABLE OF CONTROLLING THE H/C STAGES OF SPECIFIED UNIT.

11. PROVIDE UNIT WITH HGRN.

12. MODULATE OUTSIDE AIR BASED ON DEMAND REPORTED BY CO2 SENSOR.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

PLAN SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA
GRD-1	SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR LAY-IN CEILING INSTALLATION.	PRICE SCD (4C)	STEEL	WHITE	--
SG-1	DOUBLE DEFLECTION SIDEWALL GRILLE, ADJUSTABLE DEFLECTION BLADES, 3/4" O.C. FLAT FRAME WITH 1 1/4" MARGIN, HORIZONTAL FRONT.	PRICE 520	STEEL	COLOR BY ARCHITECT	--
RG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	--
RG-2	SQUARE PATTERN GRILLE, ZERO DEGREE DEFLECTION, FLAT STEEL FRAME WITH 1 1/4" BORDER, FOR SURFACE MOUNT INSTALLATION.	PRICE 80	STEEL	WHITE	--
RG-3	SINGLE FIXED DEFLECTION SIDEWALL GRILLE, 3/4" O.C. FLAT FRAME WITH 1 1/4" MARGIN, HORIZONTAL FRONT.	PRICE 530	STEEL	COLOR BY ARCHITECT	--
EG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	--

NOTES:

SEE PLANS FOR QUANTITY AND SIZES.

M.C. TO FIELD VERIFY CEILING TYPE FOR ALL GRD BEFORE PURCHASING EQUIPMENT. PROVIDE REQUIRED MOUNTING.

DUCTWORK/INSULATION SCHEDULE

SYSTEM	MAX. PRES.	LOW PRESSURE			MED. PRESS.	SEAL	HIGH PRESS.	INSULATION			NOTES
		A	B	C				INTERNAL	THICKNESS	EXTERNAL	THICKNESS
SUPPLY AIR WITHIN 10' OF UNIT	2"	X	--	--	--	--	--	YES	1"	NO	--
SUPPLY AIR BEYOND 10' OF UNIT	2"	X	--	--	--	--	--	NO	--	YES	2" FSK
RETURN AIR WITHIN 10' OF UNIT	2"	--	X	--	--	--	--	YES	1"	NO	--
RETURN AIR BEYOND 10' OF UNIT	2"	--	X	--	--	--	--	NO	--	YES	2" FSK
OUTSIDE AIR/MIXED AIR	2"	--	X	--	--	--	--	NO	--	YES	3" FSK
EXHAUST AIR	2"	--	X	--	--	--	--	NO	--	YES	2" FSK
GREASE AIR	2"	X	--	--	--	--	--	NO	--	YES	SEE NOTE 1

NOTES:

1. PROVIDE CODE-COMPLIANT FIRE WRAP.

FAN SCHEDULE

RFI	CFM	SP	FAN RPM	ELECTRICAL				DAMPER BOD OR MOD	DRIVE	FAN TYPE	INTERLOCK/CONTROL	WEIGHT	MANUFACTURER & MODEL NUMBER	NOTES
				VOLTAGE & PHASE	H.P.	FLA/AMPS	MCA							
EF-1	325	0.5	1354	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG
EF-2	300	0.5	1321	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG
EF-3	375	0.5	1435	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG
EF-4	450	0.5	1332	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-99-VG
EF-5	300	0.5	1321	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG
EF-6	175	0.5	1489	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-97-VG
EF-7	300	0.5	1321	115/1	0.25	3.5	4	15	BOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG
EF-8	100	0.3	1670	115/1	0.07	1.3	2	15	BOD	DIRECT	INLINE	SWITCH	30	GREENHECK SQ-60-VG
SF-1	750	0.5	1089	115/1	0.5	6.4	8	15	MOD	DIRECT	INLINE	SWITCH	65	GREENHECK SQ-120-VG
SF-2	325	0.5	1354	115/1	0.25	3.5	4	15	MOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG
SF-3	325	0.5	1354	115/1	0.25	3.5	4	15	MOD	DIRECT	INLINE	SWITCH	50	GREENHECK SQ-98-VG

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1. PROVIDE ELECTRONIC SPEED CONTROL MOUNTED ABOVE ACCESSIBLE CEILING.

2. M.C. SHALL PROVIDE AND INSTALL LOW VOLTAGE MOTORIZED DAMPER.

3. OPERATION OF DEVICE ON OCCUPIED MODE OF RTU OR SWITCH WITH LIGHTS. SEE INTERLOCK/CONTROL COLUMN FOR TYPE.

4. PROVIDE UNIT MOUNTED DISCONNECT.

5. FAN AND MOTORIZED DAMPER ARE PART OF EMERGENCY POWER SYSTEM. COORDINATE ALL CIRCUITS WITH EC.

6. ALL WIRING TO FAN AND DAMPER SHALL BE BY EC.

7. PROVIDE 120 V. DAMPER.

ELECTRIC FAN FORCED HEATER SCHEDULE

RFI	ROOM NO.	CFM	WALL OR CEILING	KW	MOUNTING	ELECTRICAL CHAR	AMPS	SPEEDS	CONTROL	RPM	MANUFACTURER & MODEL NUMBER	NOTES
1	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FFCH-548	1-3
2	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FFCH-548	1-3
3	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FFCH-548	1-3
4	VEST	300	CEILING	2	RECESSED	208 / 1	9.6	1	INT STAT	1400	BERKO FFCH-548	1-3

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1. PROVIDE INTERNAL THERMOSTAT.

2. RECESSED MOUNTED UNIT. PROVIDE RECESSED MOUNTING KIT.

3. PROVIDE BUILT-IN DISCONNECT.