

FLEX DUCT SIZE

0	-	80 CFM	-	6" DIA.
81	-	170 CFM	-	8" DIA.
171	-	300 CFM	-	10" DIA.
301	-	510 CFM	-	12" DIA.
511	-	750 CFM	-	14" DIA.
701	-	1100 CFM	-	16" DIA.
1101	-	1450 CFM	-	18" DIA.
1451	-	1900 CFM	-	20" DIA.

BASED ON WIRE HELIX FLEXIBLE DUCT TYPE FLEX-MASTER
UL LISTING
LH81 / ETL CLASS I AIR DUCT
STANDARD CODE
NFPA 90A AND 90B, BOCA, SBCC
HJL/FHA, MIN PROPERTY STD.
FLAME SPREAD LESS THAN 25
SMOKE DEVELOP. LESS THAN 50
MIN R8.0 FOR ATTIC/UNCONDITION SPACE.
MIN R6.0 FOR RETURN CONDITIONED SPACE.
MANUFACTURER IS TO BE USED AS A BASIS FOR DESIGN. EQUAL IS APPROVED.

GREASE ACCESS DOOR SCHEDULE

MARK	OPENING SIZE	DOOR SIZE	REMARKS
(A)	6.5H X 12W	12.5H X 16W	I
(B)	5.5H X 14W	7.5H X 16W	I

I. ACCESS DOORS SHALL BE UL 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR ASSEMBLY SHALL BE WELDED IN PLACE TO THE GREASE EXHAUST DUCT AND THE ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL EQUIVALENT TO THAT MANUFACTURED BY BRETON INDUSTRIES, INC (800) 382-2491.

SEE FIREWRAP INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION ON CONFIGURING INSULATION OVER AN ACCESS DOOR.

WELDED THREADED ROD, LENGTH AS NEEDED.
MIN. 1500 DEGREE GASKET
ACCESS DOOR
OUTER PLATE TO COMPLETELY COVER THE FINAL LAYER OF INSULATION.
LABEL DOOR AS REQUIRED BY CODE.
WING NUTS
TUBE SPACERS FOR WRAP TO BE EITHER 3" OR 4-1/2" LONG DEPENDING ON WHETHER A ONE LAYER OR TWO LAYER SYSTEM IS USED.

ROOFTOP UNIT SCHEDULE

MARK	TONNAGE	AREA SERVED	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM)				EXISTING MANUFACTURER/ MODEL	NEW MANUFACTURER/ MODEL	ARI RATINGS	PERCENTAGE OF OUTDOOR AIR	ELECTRICAL DATA			REMARKS	APPROX. NET WEIGHT INCLUDING OPTIONS
			TOTAL	SENS	INPUT	OUTPUT	STAGES	SUPPLY	O.A.	HP	ESP				VOLT/PHASE	MCA	MOCP		
NEW AC#1	25.0	KITCHEN	282	20.0	480.0	384.0	2	8,750	2100	10	1.0	LENNOX/LG08042H	LENNOX/LGH30064B	10.5 EER/10.9 IEER	22.0%	208/3/60	137 150	13,456/78,910/113,14	297 LBS
EXISTING AC#2	8.5	DINING A & RR	-	-	-	-	-	3,000	680	-	-	LENNOX/LGH024H4B	-	-	20.0%	-	-	15	-
EXISTING AC#3	12.5	DINING C & DINING B	-	-	-	-	-	4,920	1000	-	-	LENNOX/LGH15054B4H	-	-	20.0%	-	-	15	-
EXISTING AC#4	5.0	PLAYGROUND	-	-	-	-	-	1,800	400	-	-	LENNOX/LGH0604H4B	-	-	17.5%	-	-	15	-
NEW AC#5	3.0	MULTI-PURPOSE	35.8	27.6	65.0	52.0	1	1100	240	5	.65	-	LENNOX/LGH0364H4E	12.7 EER/18.0 SEER	16.0%	208/1/60	23 30	23,467/8,910/112/23	796 LBS
NOTES	<div><div></div><div><ul style="list-style-type: none">• COOLING CAPACITIES ARE GROSS, BASED ON ENTERING: 80FDB/67FWB, OUTDOOR: 95FDB.• CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6219 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.• MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS.</div></div>																		
REMARKS	<div><div></div><div><div>ALL NEW ROOFTOP UNITS SHALL INCLUDE A HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR.</div><div><div><div><div>1. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.</div><div>2. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.</div><div>3. PROVIDE NEW 14" HIGH ROOF CURB.</div><div>4. SEE DETAIL M4.2 FOR SETTING OF PRODIGY M3 AND MI-8 IMC BOARD CONTROL/ECTO PARAMETERS BY MC.</div><div>5. PROVIDE FACTORY INSTALLED AND UNIT POWERED 115V GFI SERVICE OUTLET.</div><div>6. PROVIDE FACTORY INSTALLED RETURN SIDE SMOKE DETECTOR.</div><div>7. PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.</div><div>8. PROVIDE 2" MERV 8 THROW AWAY FILTERS.</div><div>9. PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS.</div><div>10. ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL AS RECOMMENDED BY MANUFACTURER.</div><div>11. PROVIDE FACTORY COIL HAIL GUARD, FIELD INSTALLED.</div><div>12. PROVIDE UNIT WITH MS4V BLOWER.</div><div>13. PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR (STATES OF CA AND AZ EXCLUDED).</div><div>14. PROVIDE FACTORY INSTALLED BELT TENSIONER.</div><div>15. EXISTING RTU TO REMAIN. VERIFY VOLUME OF SUPPLY/RETURN/OUTSIDE AIR PROVIDED BY EXISTING ROOFTOP UNIT IS AS PER ROOFTOP UNIT SCHEDULE. CONTRACTOR SHALL BALANCE HVAC SYSTEM AS SHOWN ON MLI FLOOR PLAN AND ON THIS SCHEDULE.</div></div><div><div>• CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. FOR THE NEW ROOFTOP UNITS PRIOR TO ORDERING AND BID.</div><div>• TEST AND BALANCE REPORT SHALL BE DONE PRIOR TO STORE TURNOVER AND SUBMITTED TO CFA'S CONSTRUCTION MANAGER AND TO ENGINEER OF RECORD.</div><div>• NEW HVAC EQUIPMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDING CLEARANCES, & SHALL MEET ALL LOCAL AND STATE CODE REQUIREMENTS. INSTRUCTIONS SHALL BE ON SITE AND AVAILABLE FOR ALL INSPECTIONS, SERVICE, REPAIR, OR REPLACEMENT.</div><div>• NEW ROOFTOP UNITS ONLY. MECHANICAL CONTRACTOR SHALL RELOCATE THE FACTORY INSTALLED SUPPLY SIDE SMOKE DETECTOR FROM THE BLOWER SECTION TO THE SUPPLY DUCT DROP ABOVE THE FIRST 90 DEGREE DUCT FITTING.</div><div>• NEW ROOFTOP UNITS ONLY. THE MECHANICAL CONTRACTOR SHALL SPLICE NEW PLENUM RATED CABLE BETWEEN THE FACTORY SMOKE DETECTOR AND THE FACTORY JACK PLUG. THE NEW WIRING SHALL BE ROUTED THRU THE ROOFTOP UNIT BASEPAN RACEWAY. SPLICES SHALL BE JOINED WITH CRIMP ON FITTINGS AND HEAT SHRINK JACKETS.</div></div></div></div></div></div>																		

KITCHEN PRESSURIZATION

RETURN AIR FROM SIDE DINING BACK TO KITCHEN	+595
NEW AC-1 OA (25.0 TON)-22% OA	+2100
NEW EF-1 KITCHEN HOOD	-1,700
NEW EF-2 KITCHEN HOOD	-701
NEW EF-4 KITCHEN HOOD	-698
TOTAL	-404

DINING PRESSURIZATION

EXISTING AC-2 OA 8.5 TON-19% OA	+680
EXISTING AC-3 OA (12.5 TON)-18% OA	+1000
EXISTING AC-4 OA (5.0 TON)-17.5% OA	+400
EXISTING AC-5 OA (3.0 TON)-20.0% OA	+240
EXISTING EF-3 RESTROOM EXHAUST	-530
RETURN AIR FROM SIDE DINING BACK TO KITCHEN	-595
TOTAL	+1,195
BUILDING POSITIVE PRESSURE	+791

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING AREA KITCHEN	SEE PLAN	24X24	LAY-IN	1/8
D	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE FRONT BLADE PARALLEL TO SHORT SIDE.	WH. CLOSET	8X6	10X8	SURFACE	I
E	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE FRONT BLADE PARALLEL TO LONG SIDE.	PLAYAREA	16X10	16X12	SURFACE	I
F	PRICE MODEL 80 EGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/OFFICE KITCHEN	SEE PLAN	24X24	LAY-IN	1/8
G	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	WH. CLOSET	8X6	10X8	SURFACE	
H	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	OFFICE	12	24X24	LAY-IN	1/8
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10X10	16X16	BEVELLED	123,5,7
K	PRICE MODEL APDCR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS ENTRY'S	14X14	17X17	SURFACE	14,5,7

NOTES

- MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0101, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS

- STANDARD OFF WHITE FINISH.
- PROVIDE MODEL VCS3 NECK DAMPER.
- SEE DRAWING M11 FOR THROW.
- PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS.
- PROVIDE BACKPAN, MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
- PROVIDE VCR7 NECK DAMPER, ADJUSTABLE THRU DIFFUSER FACE.
- FIELD INSULATE BACKPAN AS SHOWN ON DETAIL I/M3-1.
- FACTORY INSULATED R-6 BACKPAN.

OUTDOOR AIR CALCULATION

ROOM NUMBER & NAME	AREA SQ. FT.	NO. OF PEOPLE	REQD OA CFM/PERSON	REQD OA CFM/SQ FT	TOTAL OSA	REQD EXHAUST AIR PER FIXTURE	REQD OSA AC-1	REQD OSA AC-2	REQD OSA AC-3	REQD OSA AC-4	REQD OSA AC-5
RR VESTIBULE	69	0	5.00	0.06	4.1			5			
MENS RR	123	0	0.00	0.00	0.0	50/70		0			
WOMENS RR	129	0	0.00	0.00	0.0	50/70		0			
DINING B	511	50	7.50	0.18	467.0			470			
KITCHEN	962	8	7.50	0.18	233.2		235				
DRIVE THRU	113	8	7.50	0.18	80.3				85		
SERVING AREA	223	2	7.50	0.18	55.1				60		
ORDER AREA	202	0	5.00	0.06	12.1				15		
DINING C	203	16	7.50	0.18	156.5				160		
ENTRY 'A'	70	0	5.00	0.06	4.2				5		
ENTRY 'B'	50	0	5.00	0.06	3.0				5		
DINING A	445	38	7.50	0.18	365.1				370		
PLAY AREA	285	12	7.50	0.18	141.3					145	
OFFICE	58	1	5.00	0.06	8.5						10
MULTI-PURPOSE	257	0	5.00	0.06	15.4						20
TOTALS			REQUIRED OUTSIDE AIR		100/140		235	475	330	145	30
			PROVIDE OUTSIDE AIR		-		2,100	680	1000	400	240

OUTSIDE AIR BASED ON THE 2012 INTERNATIONAL MECHANICAL CODE & PER ASHRAE 62.1-2007 MINIMUM VENTILATION RATES.

EXHAUST FAN SCHEDULE

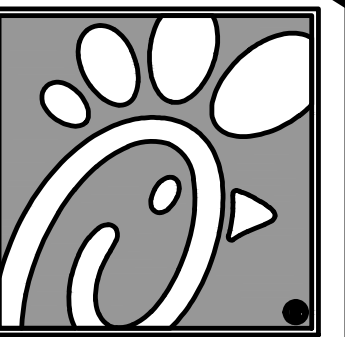
MARK	CFM	ESP	RPM	TP SPEED (FPM)	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
NEW EF-1	1,700	.65	964	4,164	1/2	NEW HOOD#1	165V5B	LOREN COOK	123,4,5,6
NEW EF-2	701	.75	1,238	4,861	1/3	NEW HOOD#2	150W4B	LOREN COOK	123,4,5,6
EXISTING EF-3	530	-	-	-	-	RESTROOMS	-	-	7
NEW EF-4	698	.75	1,220	4,790	1/3	NEW HOOD#3	150W4B	LOREN COOK	123,4,5,6

NOTES

- GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
- GREASE EXHAUST FANS TO BE UL 762 LISTED.
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE FAN/CURB PACKAGE. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0101 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS

- PROVIDE FACTORY 1'-0" BASE CURB AND EXTENSION.
- PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT.
- PROVIDE FACTORY INSTALLED HINGED BASE KIT.
- PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
- PROVIDE FACTORY INSTALLED HELICAL SPRING AUTOMATIC BELT TENSIONER.
- INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
- EXISTING EXHAUST FAN TO REMAIN.



Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark Date By

△

△

△

△

SEAL
THIS DOCUMENT IS "NOT FOR CONSTRUCTION"
UNLESS THE ARCHITECT OR ENGINEER'S
SIGNATURE AND SEAL APPEAR BELOW.

STACY HENSON, P.E.

INTERPLAN

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
PROJECT MANAGEMENT

604 COURTLAND STREET
SUITE 100
ORLANDO, FLORIDA 32804
PH 407.645.5008
FX 407.629.9124

STORE
S97-100
Jimmy Carter Blvd
FSU #0745

5455 Jimmy Carter Blvd
GA, 30093-1512

SHEET TITLE
MECHANICAL
SCHEDULES

VERSION: V7.025
ISSUE DATE: 01-2017

Job No. : 17.0522

Store : 0745

Date : 10.09.17

Drawn By : DG

Checked By: JL

Sheet

M-3.I