HVAC VENTILATION SCHEDULE

AC-1 Sales Area Ventilation Summary SINGLE-ZONE AIR SYSTEM — Zone Name / Space Name	Mult.	ZONE PRIMARY AIRFLOW Vpz (CFM)	FLOOR AREA TOTAL AREA (ft²)	FLOOR AREA NET OCCUP AREA (ft²)	AREA OUTDOOR AIRFLOW RATE IN BREATING ZONE, Ra (CFM/ft²)	TIME AVERAGE OCCUPANCY Ps / ΣPz	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE, Rp (CFM/person)	ZONA AIR DISTRIBUTION EFFECTIVENESS Ez	REQUIRED EXHAUST RATE: EXHAUST PER AREA (CFM/ft²)	# OF FIXTR. UNITS	EXHAUST PER UNIT (CFM/UNIT)	TOTAL REQ'D EXHAUST CFM	ACTUAL EXHAUST AIRFLOW (CFM)	ZONE OUTDOOR AIRFLOW Voz (CFM)	PRIMARY OA FRACTION Zp = (Voz/Vpz) / Zp MAXIMUM	SYS POPULATION Ps 255 / OCCUPANT DIVERSITY, D	UNCORRECTED OUTDOOR AIR FLOW Vou (CFM)	SYSTEM VENTILATION EFFICIENCY Ev	OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)	DESIGN OUTDOOR AIR INTAKE 5,000 (CFM)
Zone 1																				
AC-1 Block Sales	1	20,000	33,565	22,752	0.08	255	7.50	0.8				0.0	0.0	4,097	0.205		0	0.90	0	
Totals (incl. Space Multipliers)		20,000	33,565	22,752		255						0.0	0.0	4,097	0.000	1.000	0		4,097	5,000

AC-2 Vestibule Ventilation Summary MULTIPLE-ZONE AIR SYSTEM — Zone Name / Space Name	Mult.	ZONE PRIMARY AIR FLOW Vpz (CFM)	TOTAL AREA (ft²)	NET OCCUP AREA (ft²)	Ra (CFM/ft²)	Ps / ΣPz	Rp (CFM/person)	Ez	EXHAUST PER AREA (CFM/ft²)	# OF FIXTR. UNITS	EXHAUST PER UNIT (CFM/UNIT)	TOTAL REQ'D EXHAUST CFM	ACTUAL EXHAUST AIRFLOW (CFM)	Voz (CFM)	Zp = (Voz/Vpz) / Zp MAXIMUM	SYS POPULATION Ps 12 / OCCUPANT DIVERSITY, D	Vou (CFM)	Ev	Vot (CFM)	DESIGN OUTDOOR AIR INTAKE 300 (CFM)
Zone 1																				
Vestibule	1	1,500	948	569	0.21	4	7.5	0.8				0.0		187	0.125		229	1.00	229	
Instacart	1	400	240	193	0.08	4	7.5	0.8				0.0		57	0.142		49	1.00	49	
Event Planning	1	100	142	114	0.06	4	0	0.8				0.0		9	0.085		9	1.00	9	
												0.0		0	0.000		0		0	0
Totals (incl. Space Multipliers)		2,000	1,330	874		12						0.0	0.0	252	0.142	1.000	287		287	300

AC-3 Deli/Prep Food Ventilation Summary SINGLE-ZONE AIR SYSTEM — Zone Name / Space Name	Mult.	ZONE PRIMARY AIR FLOW Vpz (CFM)	TOTAL AREA (ft²)	NET OCCUP AREA (ft²)	Ra (CFM/ft²)	Ps / ΣPz	Rp (CFM/person)	Ez	EXHAUST PER AREA (CFM/ft²)	# OF FIXTR. UNITS	EXHAUST PER UNIT (CFM/UNIT)	TOTAL REQ'D EXHAUST CFM	ACTUAL EXHAUST AIRFLOW (CFM)	Voz (CFM)	Zp = (Voz/Vpz) / Zp MAXIMUM	SYS POPULATION Ps 2 / OCCUPANT DIVERSITY, D	Vou (CFM)	Ev	Vot (CFM)	DESIGN OUTDOOR AIR INTAKE [illegible] (CFM)
Zone 1																				
Deli	1	3,000	890	712	0.34	2	7.5	0.8	0.7			498.4	5900.0	321	0.107		0	1.00	[illegible]	
												0.0		0	0.000		0		0	
																				0
Totals (incl. Space Multipliers)		3,000	890	712		2						498.4	5900.0	321	0.107	1.000	0		321	[illegible]

AC-4 Rec/Storage Ventilation Summary MULTIPLE-ZONE AIR SYSTEM — Zone Name / Space Name	Mult.	ZONE PRIMARY AIR FLOW Vpz (CFM)	TOTAL AREA (ft²)	NET OCCUP AREA (ft²)	Ra (CFM/ft²)	Ps / ΣPz	Rp (CFM/person)	Ez	EXHAUST PER AREA (CFM/ft²)	# OF FIXTR. UNITS	EXHAUST PER UNIT (CFM/UNIT)	TOTAL REQ'D EXHAUST CFM	ACTUAL EXHAUST AIRFLOW (CFM)	Voz (CFM)	Zp = (Voz/Vpz) / Zp MAXIMUM	SYS POPULATION Ps 13 / OCCUPANT DIVERSITY, D	Vou (CFM)	Ev	Vot (CFM)	DESIGN OUTDOOR AIR INTAKE 700 (CFM)
Zone 1																				
AC-4 Dept Offices	1	150	144	115	0.06	2	5	0.8				0.0		21	[illegible]		18	0.90	21	
AC-4 Dock	1	1,400	1,378	1,102	0.12	3	5	0.8				0.0		184	[illegible]		180	0.90	200	
AC-4 Employee Restroom	1	75	59	71	0	1	5	0.8		2.0	50.0	100.0	250.0	0	[illegible]		[illegible]	0.90	0	
AC-4 Meat/Seafood Prod.	1	300	2,851	2,281	0	0	0	0.8	1.0			2280.8	250.0	0	[illegible]		[illegible]	0.80	0	
AC-4 Rec/Stor (No-Infl)	1	1,750	2,875	2,300	0.14	7	0	0.8				0.0		403	[illegible]		[illegible]	0.90	447	
AC-4 Elect Rm	1	325	328	262	0	0	0	0.8				0.0		0	[illegible]		[illegible]	[illegible]	0	
												0.0		0	[illegible]		0	[illegible]	0	
												0.0		0	0.000		0		0	0
Totals (incl. Space Multipliers)		4,000	7,665	6,132		13						2300.8	500.0	614	0.230	1.000	607		674	700

AC-5 Bakery Ventilation Summary MULTIPLE-ZONE AIR SYSTEM — Zone Name / Space Name	Mult.	ZONE PRIMARY AIR FLOW Vpz (CFM)	TOTAL AREA (ft²)	NET OCCUP AREA (ft²)	Ra (CFM/ft²)	Ps / ΣPz	Rp (CFM/person)	Ez	EXHAUST PER AREA (CFM/ft²)	# OF FIXTR. UNITS	EXHAUST PER UNIT (CFM/UNIT)	TOTAL REQ'D EXHAUST CFM	ACTUAL EXHAUST AIRFLOW (CFM)	Voz (CFM)	Zp = (Voz/Vpz) / Zp MAXIMUM	SYS POPULATION Ps 6 / OCCUPANT DIVERSITY, D	Vou (CFM)	Ev	Vot (CFM)	DESIGN OUTDOOR AIR INTAKE 400 (CFM)
Zone 1																				
Bakery	1	3,200	1,334	867	0.21	6	7.5	0.8	1.0			[illegible]	[illegible]	[illegible]	0.089		325	1.00	325	
Transfer Excess OA From AC-1														0	0.000		0		0	
																				0
Totals (incl. Space Multipliers)		3,200	1,334	867		6						[illegible]	[illegible]	284	0.089	1.000	325		325	400

AC-6 Admin (Lower Level) Ventilation Summary MULTIPLE-ZONE AIR SYSTEM — Zone Name / Space Name	Mult.	ZONE PRIMARY AIR FLOW Vpz (CFM)	TOTAL AREA (ft²)	NET OCCUP AREA (ft²)	Ra (CFM/ft²)	Ps / ΣPz	Rp (CFM/person)	Ez	EXHAUST PER AREA (CFM/ft²)	# OF FIXTR. UNITS	EXHAUST PER UNIT (CFM/UNIT)	TOTAL REQ'D EXHAUST CFM	ACTUAL EXHAUST AIRFLOW (CFM)	Voz (CFM)	Zp = (Voz/Vpz) / Zp MAXIMUM	SYS POPULATION Ps 15 / OCCUPANT DIVERSITY, D	Vou (CFM)	Ev	Vot (CFM)	DESIGN OUTDOOR AIR INTAKE 300 (CFM)
Zone 1																				
AC-6 Cash Room	1	300	106	90	0.06	0	5	0.8				0.0		26	0.085		21	1.00	21	
AC-6 Consultation	1	150	128	109	0.06	2	5	0.8				0.0		21	0.138		18	1.00	18	
AC-6 Family RR	1	50	82	53	0	1	0	[illegible]		1.0	50.0	50.0	100.0	0	0.000		0	1.00	0	
AC-6 Men RR	1	100	238	201	0	1	0	[illegible]		3.0	50.0	130.0	340.0	0	0.000		0	1.00	0	
AC-6 Pharmacy	1	1,500	788	670	0.23	[illegible]	5	[illegible]				0.0		216	0.145		201	1.00	201	
AC-6 Pharmacy Waiting	1	100	147	125	0.06	[illegible]	5	0.8				0.0		31	0.314		28	0.80	36	
AC-6 Record Storage	1	100	111	94	0.06	[illegible]	5	0.8				0.0		13	0.133		12	1.00	12	
AC-6 Women RR	1	100	224	190	0	[illegible]	0	0.8		3.0	50.0	150.0	240.0	0	0.000		0	1.00	0	
												0.0		0	0.000		0		0	
																				0
Totals (incl. Space Multipliers)		2,400	[illegible]	1,532		15						350.0	780.0	311	0.344	1.000	281		288	300

AC-7 Admin (Mezzanine) Ventilation Summary MULTIPLE-ZONE AIR SYSTEM — Zone Name / Space Name	Mult.	ZONE PRIMARY AIR FLOW Vpz (CFM)	TOTAL AREA (ft²)	NET OCCUP AREA (ft²)	Ra (CFM/ft²)	Ps / ΣPz	Rp (CFM/person)	Ez	EXHAUST PER AREA (CFM/ft²)	# OF FIXTR. UNITS	EXHAUST PER UNIT (CFM/UNIT)	TOTAL REQ'D EXHAUST CFM	ACTUAL EXHAUST AIRFLOW (CFM)	Voz (CFM)	Zp = (Voz/Vpz) / Zp MAXIMUM	SYS POPULATION Ps 28 / OCCUPANT DIVERSITY, D	Vou (CFM)	Ev	Vot (CFM)	DESIGN OUTDOOR AIR INTAKE 400 (CFM)
Zone 1																				
AC-7 [illegible]	[illegible]	100	[illegible]	[illegible]	0.08	0	0	0.8				0.0		4	0.037		4	1.00	4	
AC-7 General Off (Mezz)	[illegible]	400	[illegible]	190	0.06	4	5	0.8				0.0		39	0.098		34	1.00	34	
AC-7 Lounge (Mezz)	[illegible]	[illegible]	209	167	0.06	12	5	0.8				0.0		88	0.175		73	0.90	81	
AC-7 Men RR (Mezz)	1	[illegible]	82	66	0	1	0	0.8		1.0	50.0	50.0	150.0	0	0.000		0	1.00	0	
AC-7 Seating Area (Mezz)	1	[illegible]	1,707	1,237	0.07	10	7.5	0.8			25.0	0.0	50.0	202	0.176		198	0.90	221	
AC-7 Store Manager	[illegible]	200	116	93	0.06	1	5	0.8				0.0		13	0.066		13	1.00	12	
AC-7 Training (Mezz)	1	300	142	114	0.06	3	5	0.8				0.0		27	0.091		24	1.00	24	
AC-7 Women RR (Mezz)	1	50	82	66	0	1	0	0.8		1.0	50.0	50.0	150.0	0	0.000		0	1.00	0	
AC-7 [illegible]	1	50	278	221	0.06	0	0	0.8				0.0		17	0.331		17	0.80	21	
Totals (incl. Space Multipliers)		2,800	2,972	2,261		28						100.0	350.0	389	0.331	1.000	361		395	400

AIR CONDITIONING NOTES

1) WORK THIS DRAWING WITH DRAWINGS M-1.1 THROUGH M-6.1.
2) COORDINATE DIMENSIONS WITH GENERAL CONTRACTOR FOR LOCATION OF EQUIPMENT, OPENINGS, CONCRETE BASES, ETC.
3) COORDINATE HANGING OF OUTLETS AND EQUIPMENT WITH ACOUSTICAL TILE ELECTRICAL, FIRE PROTECTION, AND PLUMBING CONTRACTORS.
4) DUCT SIZES INDICATED ARE FOR FREE AREA, ELBOWS SHALL BE A MINUM OF 1.0 CENTER LINE RADIUS. SEAL ALL JOINTS AND SEAMS AS INDICATED ON THE DETAILS.
5) CEILING DIFFUSERS, REGISTERS, GRILLES, ETC. ARE BASED ON METALAIRE MODELS OR AS INDICATED - SEE SCHEDULE.
6) ALL DUCT WORK IS SINGLE WALL GALVANIZED SHEET METAL EXCEPT WHERE INDICATED.
7) ALL CONCEALED DUCT WORK IS INSULATED AS FOLLOWS DUCT INSULATION 1.0" LB. DENSITY, R-6.06 AT A THICKNESS OF:
   (A) SUPPLY AIR (S/A) 2"
   (B) RETURN AIR (R/A) 2"
8) A/C SUPPLIER SHALL CHANGE ALL FILTERS EACH 60 DAYS FOR THE FIRST YEAR'S OPERATION.
9) SMOKE DETECTORS SHALL BE FIRELITE D355PL. DETECTORS SHALL BE MOUNTED IN THE SUPPLY AND RETURN DUCTS WITH THE SENSING PROBES EXTENDING THE LENGTH OF THE LONGEST DUCT DIMENSION. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTR0ACTOR THE REQUIRED NUMBER OF SMOKE DETECTORS AND THE LENGTH OF THE SAMPLING TUBES FOR EACH DETECTOR. DETECTORS IN THE RETURN AIR STREAM SHALL BE MOUNTED PRIOR TO MIXING WITH OUTSIDE AIR. SEE DRAWING E-6.1 FOR LOCATIONS OF REMOTE TEST BUTTONS. DETECTOR SHALL BE:
   (A.) SUPPLIED BY FIRE ALARM CONTRACTOR.
   (B.) INSTALLED BY MECHANICAL CONTRACTOR.
   (C.) WIRED BY FIRE ALARM CONTRACTOR.
   (D.) POWERED BY FIRE ALARM CONTROL PANEL.
10) HURRICANE BRACKETS FOR A/C EQUIPMENT ARE PROVIDED WITH THE CURBS MANUFACTURED BY A[illegible] INDUSTRIES INC AND INSTALLED BY THE CONTRACTOR.
11) ROOFTOP EQUIPMENT SHALL MEET THE LOCAL BUILDING CODE WIND REQUIREMENTS. DESIGN CRIT[illegible] FOR THIS PROJECT IS:
   MAX WIND SPEED: _125__MPH
   EXPOSURE CATEGORY:__C__
   SEE THE DESIGN CRITERIA TABLE ON STRUCTURAL SHEET S-1, FOR FURTH[illegible]RMATION.
12) SEISMIC BRACING: (WHERE REQUIRED) ALL HVAC DUCTWORK SHALL BE PROV[illegible] WITH SEISMIC [illegible]STRAINTS IN ACCORDANCE WITH SEISMIC HAZARD LEVEL "SHL-C" OF THE ANS[illegible]ACNA SEIS[illegible]ESTRAINT M[illegible]L GUIDELINES FOR MECHANICAL SYSTEMS AS PUBLISHED BY TH[illegible] METAL AN[illegible] CONDITIONI[illegible] CONTRACTORS NATIONAL ASSOC[illegible]ON, INC. AND IN ACCORDANC[illegible] THE LOCA[illegible]DES.
13) SEISMIC DESIGN CRITERIA F[illegible] HVAC EQUIPMENT AND SUPPOR[illegible]TEMS SHAL[illegible]T THE FOLLOWING REQUIREMENTS:
   A) SEIS[illegible]C DESIGN [illegible]GORY "C"
   B) IB[illegible] CH. 16 SEISM[illegible]QUIREMENTS FOR ARCHITECTURA[illegible]CHANICAL, AND ELECTRICAL COMPONENT [illegible]C DESIGN REQ[illegible]ENTS
   C) [illegible]E/SEI 7-05 MINIM[illegible]SIGN LOADS FOR BUIL[illegible]NGS AN[illegible]HER STRUCTURES.
14) THE MECHANICAL [illegible]RACTOR SHALL [illegible]IT AT A MINIMUM (3[illegible]ETS OF SIGNED AND SEALED PUBLIX HVAC CONTRACT DRAWI[illegible]-SHEETS) AND [illegible]TS OF AN APPRO[illegible] GREENHECK GREASE HOOD CONSTRUCTION / ANSUL FIRE PROTEC[illegible] SHOP DRAWING[illegible] THE AUTHOR[illegible]AVING JURISDICTION FOR PERMITTING UNDER A [illegible]TE PERMIT A[illegible] APPROPRIATE T[illegible]
15) THE [illegible] CONTRA[illegible] SHALL ENSURE [illegible]YSTEM COMPONENTS ARE OPERATIONAL WITH ALL AIR DISTR[illegible] SYSTEM V[illegible]E DAMPERS SET [illegible] FULL OPEN POSITION PRIOR TO INITIATING TEST AND BALANCE [illegible]R PUBLIX'S [illegible] STORE PRE-C[illegible]STRUCTION JOB MANUAL.

AREAS OF HORIZONTAL RUNS BY TRADES

ELECTRICAL:	TOP OF STEEL GIRDER AND JOIST TO 32 IN. BELOW TOP OF STEEL; WHERE EXPOSED IN PROTOTYPE, IMMEDIATELY BENEATH TOP OF JOIST MEMBER AND PASSING BETWEEN STEEL JOIST WEBBING. THE INSTALLATION SHALL BE IN COMPLIANCE WITH NEC 300.4(E)
REFRIGERATION:	32 IN. TO 36 IN. BELOW ROOF DECK; EXPOSED IN PROTOTYPE, IMMEDIATELY BELOW BOTTOM CHORD OF STEEL JOIST GIRDERS AND JOISTS.
FIRE SPRINKLER:	8 IN. ABOVE CEILING; WHERE EXPOSED IN PROTOTYPE, 8 IN. ABOVE BOTTOM CHORD OF STEEL GIRDER JOISTS AND JOISTS.
AIR CONDITIONING:	36 IN. BELOW ROOF DECK TO 10 IN. ABOVE CEILING; WHERE EXPOSED IN PROTOTYPE, HANG AS CLOSE UNDER BOTTOM CHORD OF STEEL JOIST GIRDERS AND JOISTS AS POSSIBLE WHILE LEAVING ROOM FOR REFRIGERATION LINES.

IF DEVIATION FROM THESE AREAS IS INDICATED, SUCH DEVIATION MUST BE AGREED UPON BY JOB SUPERINTENDENT AND PUBLIX REPRESENTATIVE.

AIR CONDITIONING LEGEND

GR	GRILLE
DG	DOOR GRILLE - OPENING CUT BY G.C.
CG	CEILING GRILLE
REG	REGISTER
CR	CEILING REGISTER
CD	CEILING DIFFUSER
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
CFM	CUBIC FEET PER MINUTE
FPM	FEET PER MINUTE
SD	SPLITTER DAMPER
OBD	OPPOSED BLADE DAMPER
RO	RAKE OFF - TITUS MODEL AG-45
RD	RADIATION DAMPER - UL LISTED
FD	FIREDAMPER - UL LISTED 1 1/2 HOUR
VD	VOLUME DAMPER
RH	RADIANT HEATER
SH	SPACE HEATER
DH	DUCT HEATER
UON	UNLESS OTHERWISE NOTED
(S)	SMOKE DETECTOR

Publix SUPER MARKETS

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3300 PUBLIX CORPORATE PARKWAY,
LAKELAND, FL 33811-3311

PUBLIX FACILITIES DESIGN DEPARTMENT
[illegible], AIA
ARCHITECT FL [illegible]
DA[illegible] RUBIN
ARCHITECT FL REG. 925[illegible]
GA REG. 11[illegible]
SC REG. 7477
AL REG. 6234
TN REG. 103497
[illegible] 12432
VA REG. 0401017097

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CIVIL/STRUCTURAL FL REG. 45277
GA REG. 020251
SC REG. 16340
AL REG. 20382
TN REG. 101507

PAUL C. HARMAN, PE
STRUCTURAL FL REG. 51959
GA REG. 27740
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AL REG. 24905
TN REG. 107882
NC REG. 39673
VA REG. 0402055022

JOHN J. CARAMALIS, PE
MECHANICAL FL REG. 43889
GA REG. 021246
SC REG. 16521
AL REG. 20581
TN REG. 108507
VA REG. 0402055478

ANTHONY CLEMENTI, PE
MECHANICAL FL REG. 54781
GA REG. 31882
SC REG. 25591
AL REG. 28469
TN REG. 111382
NC REG. 039664
VA REG. 0402056137

RAYMOND J. SIRIANNI, PE
ELECTRICAL FL REG. 54085
GA REG. 025636
SC REG. 19743
AL REG. 23065
TN REG. 108038
NC REG. 039963
VA REG. 0402055379

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THE DESIGN INDICATED IN THESE CONSTRUCTION DOCUMENTS DOES; TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF; COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PLOT DATE:
August, 21 2018

No.	Description	Date

STORE NUMBER
1687
Tattersall Park

US 280 & Highway 19
Hoover
Shelby Co., AL

48.10
V0514-2018
SIENNA LITE

SCHEDULES AND DETAILS (2 OF 2)

As indicated

M3.2

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