

AIR TERMINAL SCHEDULE										
TAG	AREA	RANGE CFM	NECK IN.	OVERALL SIZE IN.	BORDER	TYPE	BLOW	O.B.D. DAMPER	PRICE MODEL OR LISTED EQUAL	
SAD	GENERAL SALES	50 - 120	6 DIA.	24 X 24	LAY-IN	PLAQUE	360 DEG.	NONE	ASPD	
SAD	GENERAL SALES	121 - 235	8 DIA.	24 X 24	LAY-IN	PLAQUE	360 DEG.	NONE	"	
SAD	GENERAL SALES	236 - 400	10 DIA.	24 X 24	LAY-IN	PLAQUE	360 DEG.	NONE	"	
SAD	GENERAL SALES	401 - 680	12 DIA.	24 X 24	LAY-IN	PLAQUE	360 DEG.	NONE	"	
SAD	GENERAL SALES	681 - 900	14 DIA.	24 X 24	LAY-IN	PLAQUE	360 DEG.	NONE	"	
SAD	GENERAL SALES	901 - 1050	15 DIA.	24 X 24	LAY-IN	PLAQUE	360 DEG.	NONE	"	
SAD	NON-SALES	50 - 150	6 X 6	8 X 8	NOTE 1	FLUSH FACE LOUVERED	4 WAY	NONE	AMDA	
SAD	NON-SALES	50 - 150	6 X 6	24 X 24	LAY-IN	FLUSH FACE LOUVERED	4 WAY	NONE	"	
SAD	NON-SALES	151 - 400	9 X 9	24 X 24	LAY-IN	FLUSH FACE LOUVERED	4 WAY	NONE	"	
SAD	NON-SALES	401 - 680	12 X 12	24 X 24	LAY-IN	FLUSH FACE LOUVERED	4 WAY	NONE	"	
SAD	PASSAGE	50 - 150	6 X 6	24 X 24	LAY-IN	FLUSH FACE LOUVERED	2 WAY	NONE	"	
SAG	ENTRANCE	150 - 350	14 X 6	16 X 8	NOTE 1	NOTE 4.	1 WAY	NONE	620 L	
SAG	ENTRANCE	351 - 550	22 X 6	24 X 8	NOTE 1	NOTE 4.	1 WAY	NONE	"	
SAG	ENTRANCE	551 - 950	20 X 10	22 X 12	NOTE 1	NOTE 4.	1 WAY	NONE	"	
SAG	ENTRANCE	951 - 1100	24 X 10	26 X 12	NOTE 1	NOTE 4.	1 WAY	NONE	"	
SAG	ELEC.	120 - 290	12 X 6	14 X 8	NOTE 1	NOTE 4.	1 WAY	YES	"	
SAG	STOCK	130 - 350	14 X 6	16 X 8	NOTE 1	NOTE 4.	1 WAY	YES	"	
SAG	STOCK	351 - 1100	16 X 16	18 X 18	NOTE 1	NOTE 4.	1 WAY	YES	"	
RAG	STOCK	200 - 1250	18 X 18	20 X 20	NOTE 1	1"X1"X1" CUBED CORE	NA	NONE	82	
RAG	SALES	2500 - 5000	46 X 22	48 X 24	LAY-IN	1"X1"X1" CUBED CORE	NA	NONE	"	
RAG	SALES	600 - 2500	22 X 22	24 X 24	LAY-IN	1"X1"X1" CUBED CORE	NA	NONE	"	
RAG	OFFICE	600 - 2500	22 X 22	24 X 24	LAY-IN	1"X1"X1" CUBED CORE	NA	NONE	"	
RAG	PHARMACY	600 - 2500	22 X 22	24 X 24	LAY-IN	1"X1"X1" CUBED CORE	NA	NONE	"	
RAG	M.P./TRAINING	100 - 350	10 X 10	12 X 12	NOTE 1	1"X1"X1" CUBED CORE	NA	NONE	"	
TAG	OFFICE	400 - 600	14 X 14	16 X 16	NOTE 1	1"X1"X1" CUBED CORE	NA	NONE	"	
TAG	SALES	400 - 1000	22 X 22	24 X 24	LAY-IN	1"X1"X1" CUBED CORE	NA	NONE	"	
EAG	EMP. ROOM	300 - 600	12 X 12	14 X 14	NOTE 1	1"X1"X1" CUBED CORE	NA	YES	82 DAL	
EAG	ELEC. ROOM	300 - 600	12 X 12	14 X 14	NOTE 1	1"X1"X1" CUBED CORE	NA	YES	"	
EAG	TOILETS	175 - 400	10 X 10	12 X 12	NOTE 1	1"X1"X1" CUBED CORE	NA	YES	"	
EAG	PORTER	25 - 150	6 X 6	8 X 8	NOTE 1	1"X1"X1" CUBED CORE	NA	YES	"	

NOTES:

- PROVIDE PROPER BORDER AND MOUNTING OPTION THAT IS COMPATIBLE WITH THE ADJACENT SURFACE.
- PROVIDE "ADJUSTABLE PATTERN" TYPE SUPPLY FOR PHARMACY, OFFICE AND EMPLOYEE ROOM.
- IN PHARMACY, PROVIDE 2 AND 3 WAY DIRECTIONAL DIFFUSERS AS SHOWN ON PLAN.
- DOUBLE DEFLECTION WITH HORIZONTAL FRONT BLADES PARALLEL TO LONG DIMENSION.
- AIR TERMINAL DEVICES SHALL BE MOSTLY ALUMINUM WITH A WHITE FACTORY FINISH TO MATCH ADJACENT CEILING GRID.
- TOTAL STATIC PRESSURE DROP ACROSS AN AIR TERMINAL SHALL NOT EXCEED 0.20 IN. WC.
- ACCEPTABLE MANUFACTURERS: CARNES, KRUEGER, METALAIRE, NAILOR, PRICE, TITUS, TUTTLE AND BAILEY.
- DUCT INSULATION SHALL EXTEND DOWN OVER TOP AND SIDES OF ALL SUPPLY DIFFUSERS AND GRILLES.

RESTROOM EXHAUST AIR CALCULATION						
AREA	AREA (SF)	FIXTURE COUNT ** WATER CLOSET OR URINALS	CFM ** S.F.	CFM ** PER FIXTURE	CFM EXH. REQUIRED	CFM EXH. SUPPLIED
WOMEN'S GROUP TOILETS	141	2 FIXTURES	---	50	100	200
MEN'S GROUP TOILETS	123	2 FIXTURES	---	50	100	200
** PER FLORIDA MECHANICAL CODE					TOTALS	400

FAN SCHEDULE											
UNIT	AREA SERVED	CFM	S.P.	FAN MOTOR		RPM	FAN TYPE	DRIVE	WEIGHT	MAKE AND MODEL	NOTES
				H.P./WATTS	VOLTS PHASE						
EF-1	RESTROOMS AND JANITOR CLOSET	450	0.375	1/15 H.P.	120 1	1,400	PRV	DIRECT	23 LBS	GREENHECK G-90-DDEX-QD-D	①
EF-2	EMPLOYEE ROOM	475	0.375	1/15 H.P.	120 1	1,435	PRV	DIRECT	23 LBS	GREENHECK G-90-DDEX-QD-D	②
EF-3	ELECTRICAL ROOM	400	0.375	1/15 H.P.	120 1	1,337	PRV	DIRECT	23 LBS	GREENHECK G-90-DDEX-QD-D	③

① EXHAUST FAN CONTROLLED BY INTERLOCKING WITH RTU-3, COORDINATE WITH ELECTRICAL AS REQUIRED. PROVIDE/INSTALL WITH FACTORY BACKDRAFT DAMPER, MATCHING ROOF CURB, DISCONNECT SWITCH LOCATED IN FAN HOUSING AND FAN SPEED CONTROLLER LOCATED INSIDE THE EXHAUST FAN DOME NEAR THE MOTOR (TOILET EXHAUST FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED PERIODS AS DETERMINED BY RTU-3).

② EXHAUST FAN CONTROLLED BY LIGHTING CIRCUIT, COORDINATE WITH ELECTRICAL AS REQUIRED. PROVIDE/INSTALL WITH FACTORY BACKDRAFT DAMPER, MATCHING ROOF CURB, DISCONNECT SWITCH LOCATED IN FAN HOUSING AND FAN SPEED CONTROLLER LOCATED INSIDE THE EXHAUST FAN DOME NEAR THE MOTOR. (EMPLOYEE ROOM EXHAUST FAN SHALL ONLY RUN WHEN EMPLOYEE ROOM LIGHTS ARE ON).

③ EXHAUST FAN CONTROLLED BY LINE VOLTAGE THERMOSTAT (ELECTRICAL CONTRACTOR PROVIDED AND WIRED) SET TO ENERGIZE FAN WHEN ROOM TEMPERATURE RISES ABOVE 84° F. COORDINATE WITH ELECTRICAL AS REQUIRED. PROVIDE/INSTALL WITH FACTORY BACKDRAFT DAMPER, MATCHING ROOF CURB, DISCONNECT SWITCH LOCATED IN FAN HOUSING AND FAN SPEED CONTROLLER LOCATED INSIDE THE EXHAUST FAN DOME NEAR THE MOTOR (ELECTRICAL ROOM EXHAUST FAN SHALL ONLY RUN WHEN ENERGIZED BY ROOM THERMOSTAT).

ACCEPTABLE MANUFACTURERS FOR EXHAUST FANS:
ACME, CARNES, COOK, ILG, JENN AND PENN.

AIR CURTAIN & HEATER SCHEDULE							
UNIT	AREA SERVED	BTU/HR OUTPUT OR KILOWATT	CFM	MOTOR		TYPE	MAKE AND MODEL
				HP.	VOLT PHASE		
AC-1	OVERHEAD RECEIVING DOOR	15 KW 208/3 PH	2,072	1/5	208/1 PH	AIR CURTAIN WITH ELECTRIC HEAT AND THERMOSTAT.	*** BERNER MODEL MAXAIR MAX1072EX-150-WAG

*** PROVIDE AIR CURTAIN WITH DOOR CONTROL, FAN AND HEAT CONTROL, SUMMER FAN CONTROL, TIME DELAY, BUILT-IN THERMOSTAT (PACKAGE CONTROL SYSTEM), MOUNTING BRACKET, FED FROM A SINGLE 60A MAX. CIRCUIT. (CONTACT WILLIAMSON & COMPANY @ 847-674-0000 FOR BERNER UNIT).

MECHANICAL CONTRACTOR SHALL FURNISH AIR CURTAIN. ELECTRICAL CONTRACTOR SHALL INSTALL AIR CURTAIN.

OUTSIDE AIR CALCULATION							
FLOOR AREA	SERVED BY RTU-#	AREA (SF)	OCCUPANCY * (P/1000 SF)	PERSON(S)	CFM * PERSON/SF	CFM O.A. REQUIRED	CFM O.A. SUPPLIED
SPECIALTY SHOP (DRUG STORE)	RTU-2, 3 & 4	9,000	8/1,000	72	15 CFM/PERSON	1,080	1,090
OFFICE SPACE	RTU-2	240	COUNT	3	20 CFM/PERSON	60	60
EMPLOYEE ROOM	RTU-2	195	COUNT	4	20 CFM/PERSON	80	80
MULTI-PURPOSE ROOM	RTU-4	110	COUNT	3	20 CFM/PERSON	60	60
TRAINING ROOM	RTU-4	125	COUNT	3	20 CFM/PERSON	60	60
GENERAL STOCK	RTU-5	995	-	3	0.15 CFM/SF	150	150
* PER FLORIDA MECHANICAL CODE						TOTALS	1,490
NOTE: AREA SQUARE FOOTAGE'S SHOWN ABOVE ARE OCCUPIED ZONE BOUNDARIES MEASURED AT 3 INCHES AND 72 INCHES ABOVE FLOOR AND 24 INCHES FROM THE ENCLOSING WALLS, AS DESCRIBED IN SECTION 403 OF THE FLORIDA MECHANICAL CODE. (WALK-IN COOLER SQ. FT. DEDUCTED)							1,500

NATIONAL ACCOUNT FOR ROOF TOP UNITS TO COORDINATE THE PURCHASE, ORDER, AGREEMENT AND EQUIPMENT DELIVERY CALL:		
CARRIER	LENNOX	TRANE
NATIONAL ACCOUNT TEAM ☎ (800)690-1083.	NATIONAL ACCOUNT TEAM ☎ (800)367-6285(PRESS 2).	NATIONAL ACCOUNT TEAM ☎ (800)453-6954.
ALABAMA ILLINOIS INDIANA KENTUCKY MARYLAND MICHIGAN NEW JERSEY PENNSYLVANIA PUERTO RICO, SOUTH CAROLINA, TENNESSEE, WASHINGTON D.C. WEST VIRGINIA	GEORGIA MISSISSIPPI TEXAS	ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, CONNECTICUT, COLORADO, DELAWARE, FLORIDA, HAWAII, IDAHO, IOWA, KANSAS, LOUISIANA, MASSACHUSETTS, MAINE, MINNESOTA, MISSOURI, MONTANA, NEBRASKA, NEVADA, NEW HAMPSHIRE, NEW MEXICO, NEW YORK, NORTH CAROLINA, NORTH DAKOTA, OHIO, OKLAHOMA, OREGON, RHODE ISLAND, SOUTH DAKOTA, UTAH, VERMONT, VIRGINIA, WASHINGTON, WISCONSIN, & WYOMING

BUILDING AIR PRESSURIZATION CALCULATION			
OUTSIDE AIR INTO BUILDING		EXHAUST AIR OUT OF BUILDING	
SOURCE	CFM	SOURCE	CFM
RTU-2	200	EF-1 (TOILET/JANITOR EXH.)	450
RTU-3	850	EF-2 (EMPLOYEE ROOM EXH.)	475
RTU-4	300		
RTU-5	150		
TOTAL OUTSIDE AIR 1,500		TOTAL EXHAUST AIR 925	
TOTAL OUTSIDE AIR 1,500 CFM		TOTAL EXHAUST AIR 925 CFM	
575 CFM POSITIVE PRESSURE W/ALL FANS OPERATING			

NOTE:
EF-3 IS CONTROLLED BY A ROOM THERMOSTAT AND WILL ONLY BE ENERGIZED DURING NIGHT SETBACK OF RTU-2.
(INTERMITTENT FAN WITH NO DAY TIME OPERATION IS EXEMPT FROM THIS CALCULATION)

PACKAGED ROOF TOP AIR CONDITIONING UNIT (RTU) SCHEDULE																								
ID MARK	AREAS SERVED	EVAPORATOR FAN DATA					COOLING DATA								HEATING DATA		ELECT.	WEIGHT	REFRIG.	NOTES	MANUFACTURER AND MODEL #			
		DESIGN O.A.I. CFM	EVAP. AIRFLOW CFM	UNIT ESP IN. WC.	INDOOR FAN H.P.	NO. OF COMP.	CAPACITY LEAVING ROOF TOP UNIT NOMINAL TONS	TOTAL NET MBTUH	SENSIBLE NET MBTUH	MIXED ENTERING AIR TEMPERATURES LEAVING ROOF TOP UNIT DRY BULB WET BULB DEC. F.	DISCHARGE AIR TEMPERATURES LEAVING ROOF TOP UNIT DRY BULB WET BULB DEC. F.	SEER/EER	GAS HEAT INPUT BTU/H	GAS HEAT OUTPUT BTU/H	208-3-60 UNIT WOOD/MCA	APPROX. BASE UNIT WEIGHT					REFRIGERANT TYPE	MAKE	MODEL	
RTU-1	SALES - ENTRANCE	0	3,000	0.75	2.0	2	7.5	84.34	66.32	75.0	62.5	54.5	52.6	51.2	-/11.2	200,000	160,000	50/43.3	1,035	R-410A	① ⑥ ⑧ ⑩ ⑫ ⑬ ⑭	TRANE	YSC092E3	
RTU-2	SALES - OFFICE	200	2,000	0.50	1.0	1	5.0	56.24	42.36	76.0	64.0	56.4	54.5	53.2	13.0/-	60,000	48,000	45/29.5	730	R-410A	① ③ ⑥ ⑧ ⑩ ⑫ ⑬ ⑭	TRANE	YSC060E3	
RTU-3	SALES - INTERIOR	850	4,500	0.75	3.0	2	12.5	155.62	108.14	77.8	65.4	55.4	53.8	52.7	-/12.0	150,000	122,000	80/68.0	2,200	R-410A	① ② ③ ⑥ ⑧ ⑩ ⑫ ⑬ ⑭	TRANE	YFD151E3	
RTU-4	PHARMACY	300	2,000	0.50	1.0	1	5.0	56.60	42.22	75.4	63.6	55.9	54.0	52.6	13.0/-	60,000	48,000	45/29.5	730	R-410A	① ③ ⑥ ⑧ ⑩ ⑫ ⑬ ⑭	TRANE	YSC060E3	
RTU-5	STOCK ROOM	150	1,200	0.50	1.0	1	3.0	36.15	25.85	80.0	67.4	60.0	57.8	56.4	13.0/-	120,000	96,000	30/21.4	630	R-410A	① ③ ⑥ ⑧ ⑩ ⑫ ⑬ ⑭	TRANE	YSC036E3	
TOTALS		1,500					33.0	387.95	284.89															

① DESIGN CONDITIONS CONDENSER AND OUTSIDE AIR FOR COOLING: 94.4° DB 76.1° WB OUTSIDE AIR FOR HEATING: 33.5° DB.
② DEHUMIDIFICATION OPTION USING COMPRESSOR REHEAT CONTROLLED BY A HUMIDISTAT OR RH SENSOR.
③ MOTORIZED TWO POSITION OUTSIDE AIR AND RETURN AIR DAMPERS.
④ NOT USED.
⑤ NOT USED.
⑥ DUCT SMOKE DETECTOR, FACTORY INSTALLED, WIRED TO SHUTDOWN RTU, MOUNTED IN THE SUPPLY AIR STREAM.
⑦ NOT USED.
⑧ PROGRAMMABLE THERMOSTATS - ELECTRONIC TYPE-2 STAGE.
⑨ NOT USED.
⑩ ANTI-CORROSION COATING FOR THE CONDENSER COIL (SALT WATER PROTECTION).
⑪ NOT USED.
⑫ ROOF CURBS - HEIGHT 14", SLOPE 1/4" PER FOOT, 110 MPH WIND ZONE.
⑬ FACTORY INSTALLED & WIRED DISCONNECT SWITCH (115 V. ELECTRICAL CONVENIENCE OUTLET PROVIDED BY THE ELECTRICAL CONTRACTOR, COORDINATE AS REQUIRED).
⑭ FOR ADDITIONAL REQUIREMENTS APPLICABLE TO ALL RTUS, REFER TO THE HVAC SPECIFICATION 15500.

N/A = NOT APPLICABLE
O.A.I. = OUTSIDE AIR INTAKE

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PROJECT TYPE

DRAWINGS/SPECIFICATIONS BY:
 WALGREENS' CONSULTANT
 LANDLORD'S CONSULTANT

CONSTRUCTION WORK BY: (UNLESS NOTED OTHERWISE)
 WALGREENS' CONTRACTOR
 LANDLORD'S CONTRACTOR (TURNKEY CONSTRUCTION)

STORE	BUILDING
NEW..... <input checked="" type="checkbox"/>	NEW..... <input checked="" type="checkbox"/>
REMODELING... <input type="checkbox"/>	EXISTING..... <input type="checkbox"/>
RELOCATION... <input type="checkbox"/>	NEW SHELL ONLY <input type="checkbox"/>
OTHER..... <input type="checkbox"/>	

NO.	DATE	DESCRIPTION
1	02.05.10	REVISED PER WGS 1ST REVIEW COMMENTS

CERTIFICATION AND SEAL

I HEREBY CERTIFY THAT THIS PLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA AS SIGNIFIED BY MY HAND AND SEAL.

RON. R. RENNA
FL LICENSE NO. PE56067

PROJECT NAME
**STORE #13450
SWC OF FOURAKER & NORMANDY
JACKSONVILLE, FLORIDA**

DRAWING TITLE
MECHANICAL SCHEDULES

DATE: 11.30.09	WALGREENS STORE NO. 13450	DRAWING NO.
DRAWN BY: JK	SCALE: AS NOTED	M2.2
REVIEWED BY: RR	RELEASED TO CONSTRUCTION	FWH PROJECT NO. 0913