

H.V.A.C. GENERAL NOTES:

- COORDINATE WITH ALL OTHER TRADES PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND MATERIALS. PERFORM WORK IN SUCH MANNER AND AT SUCH TIMES AS NOT TO DELAY WORK OF OTHER TRADES.
- OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT, THE DIMENSIONS OF WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO INSURE MINIMUM CLEARANCES ARE MAINTAINED.
- WORKMAN SHALL BE EXPERIENCED IN THEIR RESPECTIVE TRADE. WORKMANSHIP OF INSTALLED WORK SHALL BE FIRST CLASS AND WILL BE SO JUDGED. SUBSTANDARD WORK SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL AND DOES HEREBY WARRANT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION TO BE FREE FROM DEFECTS AND TO FUNCTION OR OPERATE SATISFACTORILY FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK, AND THAT ANY ITEMS NOT MEETING THIS REQUIREMENT WILL BE MADE GOOD BY HIM WITHOUT ANY COST TO THE OWNER.
- PROVIDE ONLY NEW, STANDARD FIRST-GRADE MATERIALS THROUGHOUT, CONFORMING TO STANDARDS ESTABLISHED BY UNDERWRITER LABORATORIES INC., AND SO MARKED AND LABELED, TOGETHER WITH MANUFACTURER'S BRAND OR TRADEMARK. ALL LIKE ITEMS SHALL BE OF ONE MANUFACTURER.
- ALL WORK SHALL BE EXECUTED IN A MANNER THAT SHALL PRESENT A NEAT APPEARANCE UPON COMPLETION. CARE SHALL BE EXERCISED THAT ALL ITEMS ARE PLUMB, STRAIGHT AND LEVEL.
- ANY WALLS, CEILINGS, EQUIPMENT, ETC., DAMAGED BY THE CONTRACTOR IN CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, OR TO PERFORM ITS INTENDED FUNCTION, AT NO ADDITIONAL COST TO OWNER.
- PIPING SHALL BE NEW AND IN GOOD CONDITION. ALL PIPING SHALL CONFORM TO ALL APPLICABLE MILITARY, STATE, COUNTY AND LOCAL CODES. PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES.
- REFRIGERANT PIPING SHALL BE TESTED IN ACCORDANCE WITH INDUSTRY ACCEPTED METHODS. LEAKS SHALL BE REPAIRED AND ANY LOST REFRIGERANT SHALL BE REPLACED AT NO ADDITIONAL COST.
- DIELECTRIC UNIONS SHALL BE INSTALLED IN ALL COPPER AND FERROUS PIPING CONNECTIONS.
- DUCT DIMENSIONS NOTED ARE INSIDE DIMENSIONS AND DO NOT INCLUDE INSULATION OR LINER.
- TEST AND BALANCE ALL AIR SYSTEMS IN ACCORDANCE WITH AABC AND/OR NEBB REQUIREMENTS. ALL EQUIPMENT USED FOR TESTING SHALL BE IN PROPER WORKING ORDER.
- THE TEST AND BALANCE CONTRACTOR SHALL REGULATE AND ADJUST ALL SPLITTERS, DEFLECTORS AND DAMPERS SO THAT THE INLET OR OUTLET SHALL DELIVER OR REMOVE THE REQUIRED NUMBER OF CUBIC FEET OF AIR PER MINUTE (CFM) AT THE RESPECTIVE OPENINGS.
- PROVIDE VIBRATION ISOLATORS AND ACOUSTIC INSULATION AS REQUIRED TO ELIMINATE ANY OBJECTIONABLE NOISE OR VIBRATION.

- PIPE AND DUCT ROUTING SHOWN IS SCHEMATIC. PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS, INCLUDING DIVIDED DUCTS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
- PROVIDE ALL CONTROL WIRING AND CONDUIT IN COMPLIANCE WITH NEC AND DIVISION 16 SPECIFICATIONS.
- PROVIDE MATERIALS WHICH HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOP RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- INSULATE SUPPLY, RETURN AND PRE-CONDITIONED OUTSIDE AIR DUCTS TO A MINIMUM R-VALUE OF 6.0. IF INSTALLED IN A MECHANICALLY COOLED SPACE OR IN A CAVITY WHOSE EXTERIOR WALLS ARE INSULATED THE R-VALUE MAY BE 4.2.
- IN HANDICAPPED ACCESSIBLE AREAS, MOUNT CONTROLS AT 48" ABOVE FINISHED FLOOR.
- LOCATE WALL AND ROOF TERMINATIONS AT THE SAME RELATIVE ELEVATION AND HORIZONTAL POSITION TO MAINTAIN A UNIFORM APPEARANCE. WHEN IN DOUBT, COORDINATE PLACEMENT WITH ARCHITECT. PRIME COAT AND PAINT EXTERIOR TERMINATIONS TO MATCH BUILDING COLOR.
- SLEEVE AND FIRE STOP PENETRATIONS THROUGH FIRE RATED SYSTEMS TO MAINTAIN RATING OF SYSTEM.
- PROVIDE ENGRAVED TAGS FOR ALL RTU'S. MOUNT TAGS PERMANENTLY ON RTU AND ON DISCONNECT.
- COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN AND OTHER TRADES.
- PAINT INSIDE OF DUCTS AND PORTIONS OF CEILING ASSEMBLY VISIBLE THROUGH DIFFUSERS OR GRILLES WITH FLAT BLACK PAINT.
- FLEX DUCTS SHALL NOT EXCEED 4 FT IN LENGTH.
- TEST AND BALANCE CONTRACTOR SHALL RETURN AT THE CHANGE OF HEATING OR COOLING SEASON TO VERIFY THAT THE BALANCE OF THE SYSTEM HAS NOT CHANGED.
- EACH RTU SHALL BE EQUIPPED WITH AT LEAST ONE AUTOMATIC DEVICE SETBACK OR SHUT OFF THE SYSTEM DURING PERIODS OF NON-OCCUPANCY.
- DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED AS REQUIRED BY ALL LOCAL STANDARDS AND SMACNA STANDARDS.
- MECHANICAL CONTRACTOR SHALL REFER TO LANDLORD CRITERIA FOR ROOF TOP UNIT NUMBERING. IF NO CRITERIA EXISTS, NUMBER AS SHOWN ON DRAWINGS.
- PROVIDE 3/4" UNDERCUT FOR ALL RESTROOM DOORS FOR MAKE-UP OF EXHAUST AIR.
- BRANCH DUCT TO GRILLE OR DIFFUSER SHALL BE THE SAME AS THE NECK SIZE.
- A NATIONAL ACCOUNT HAS BEEN ESTABLISHED WITH NOVAR CONTROLS. CONTACT JOHN AIKEN OR JOE BORDERS AT (216) 682-1600 PRIOR TO ORDERING.

VENTILATION REQUIREMENT SCHEDULE																					
SERVED BY	ROOM	SPACE TYPE	NUMBER OF PEOPLE	OUTDOOR AIRFLOW RATE REQ'D PER PERSON (R _p)	AREA (sq ft)	OUTDOOR AIRFLOW RATE REQ'D PER SF (R _a)	R _p x P _z	R _a x A _z	BREATHING ZONE OUTDOOR AIRFLOW (Vbz)	AIR DISTRIBUTION CONFIGURATION	ZONE AIR DIST. EFFECT. (Ez)	ZONE OUTDOOR AIRFLOW (Voz=VbzEz)	TOTAL OUTDOOR AIR INTAKE REQ'D (Vot)	TOTAL OUTDOOR AIR INTAKE PROVIDED							
AHU-1/ICU-1	42 - MECH	NONE	0	0	87	0	0	0	0	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	154	154	175							
	43 - EQUIP	STORAGE ROOMS	0	0	231	0.12	0	28	28												
	44 - 911 CENTER	OFFICE SPACE	10	5	735	0.06	50	45	95												
								UNIT TOTAL													
AHU-2/ICU-2	45 - OPERATIONS CENTER	OFFICE SPACE	25	5	1485	0.06	125	90	215	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	307	307	325							
	46 - STORAGE	STORAGE ROOMS	0	0	48	0.12	0	6	6												
	47 - OFFICE	OFFICE SPACE	1	5	119	0.06	5	8	13												
	48 - OFFICE	OFFICE SPACE	1	5	86	0.06	5	6	11												
								UNIT TOTAL													
AHU-3/ICU-3	02 - CORONER SPACE	OFFICE SPACE	1	5	276	0.06	5	17	22	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	286	286	325							
	03 - 911ADDRESS	OFFICE SPACE	1	5	107	0.06	5	7	12												
	04 - CORRIDOR	CORRIDORS	0	0	73	0.06	0	5	5												
	05 - BILLING	OFFICE SPACE	1	5	133	0.06	5	8	13												
	06 - LOBBY	RECEPTION AREAS	2	5	281	0.06	10	17	27												
	07 - COMMUNITY	MULTIUSE ASSEMBLY	15	7.5	600	0.06	113	37	150												
	08 - UNISEX	NONE	0	0	48	0	0	0	0												
									UNIT TOTAL												
AHU-4/ICU-4	01 - FIRE CHIEF OFFICE	OFFICE SPACE	2	5	501	0.06	10	31	41	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	167	167	175							
	10 - EMA DIRECTOR	OFFICE SPACE	1	5	284	0.06	5	18	23												
	13 - EMS DIRECTOR	OFFICE SPACE	1	5	284	0.06	5	18	23												
	14 - 911 DIRECTOR	OFFICE SPACE	1	5	289	0.06	5	18	23												
	16 - OFFICE	OFFICE SPACE	1	5	289	0.06	5	18	23												
									UNIT TOTAL												
AHU-5/ICU-5	09 - CORRIDOR	CORRIDORS	0	0	1160	0.06	0	71	70	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	188	188	200							
	11 - FILES	STORAGE ROOMS	0	0	98	0.12	0	12	12												
	12 - FILES	STORAGE ROOMS	0	0	74	0.12	0	9	9												
	38 - STATION CHIEF	OFFICE SPACE	1	5	149	0.06	5	9	11												
	39 - ELECTRICAL	NONE	0	0	47	0	0	0	0												
	40 - WOMEN	NONE	0	0	47	0	0	0	0												
	41 - MEN	NONE	0	0	78	0	0	0	0												
	49 - WORK ROOM	OFFICE SPACE	2	5	94	0.06	10	31	41												
	50 - MEDICAL STORAGE	STORAGE ROOMS	0	0	104	0.12	0	13	13												
	51 - DRY GOOD STORAGE	STORAGE ROOMS	0	0	99	0.12	0	12	12												
	52 - RESTROOM	NONE	0	0	130	0	0	0	0												
	53 - RESTROOM	NONE	0	0	114	0	0	0	0												
	54 - CLOSET	STORAGE ROOMS	0	0	33	0.12	0	4	4												
									UNIT TOTAL												
AHU-6/ICU-6	15 - UNISEX	NONE	0	0	48	0	0	0	0	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	97	97	100							
	17 - MECH	NONE	0	0	24	0	0	0	0												
	18 - ELEC	NONE	0	0	21	0	0	0	0												
	19 - CLOSET	NONE	0	0	20	0	0	0	0												
	20 - CORRIDOR	CORRIDORS	0	0	582	0.06	0	35	35												
	22 - STORAGE	STORAGE ROOMS	0	0	110	0.12	0	14	14												
	23 - UNISEX	NONE	0	0	62	0	0	0	0												
	25 - CORRIDOR	CORRIDORS	0	0	451	0.06	0	28	28												
									UNIT TOTAL												
	AHU-7/ICU-7	21 - OFFICE	OFFICE SPACE	1	5	134	0.06	5	9						14	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	1039	1039	1075	
		24 - TRAINING	MULTIUSE ASSEMBLY	96	7.5	1604	0.06	720	97						817						
								UNIT TOTAL													
AHU-8/ICU-8	27 - FIRE TRNG	BEDROOM/LIVING ROOM	15	5	1318	0.06	75	80	155	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	194	194	200							
	28 - OFFICE	NONE	0	0	18	0	0	0	0												
								UNIT TOTAL													
AHU-9/ICU-9	28 - MEN	NONE	0	0	124	0	0	0	0	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	77	77	150							
	29 - WOMEN	NONE	0	0	172	0	0	0	0												
	30 - BUNK	BEDROOM/LIVING ROOM	1	5	93	0.06	5	6	11												
	31 - BUNK	BEDROOM/LIVING ROOM	1	5	51	0.06	5	4	9												
	32 - BUNK	BEDROOM/LIVING ROOM	1	5	93	0.06	5	6	11												
	33 - SHOWER	NONE	0	0	93	0	0	0	0												
	34 - BUNK	BEDROOM/LIVING ROOM	1	5	94	0.06	5	6	11												
	35 - BUNK	BEDROOM/LIVING ROOM	1	5	49	0.06	5	3	8												
	36 - BUNK	BEDROOM/LIVING ROOM	1	5	93	0.06	5	6	11												
	37 - SHOWER	NONE	0	0	93	0	0	0	0												
									UNIT TOTAL												

NOTE: REQUIRED OUTSIDE AIR CFM VALUES BASED ON ANSI/ASHRAE STANDARD 62.1-2010.

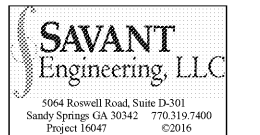
Order Plans @



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H.V.A.C. SCHEDULES

FANNIN CO. PUBLIC SAFETY COMPLEX
BLUE RIDGE, GA 30513

TITLE:

PROJECT:

ISSUE:

REVISIONS:

SEAL



DRAWN BY/
CHECKED BY:

DATE:

MSC/RGV

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M-2.1