

AIR BALANCE SCHEDULE					
MARK	SERVICE	EXHAUST (CFM)	OUTSIDE AIR (CFM)	PRESSURE (CFM)	PRESSURE (IN)
FURN-2	DAYROOM		140		
KEF-1	HOOD #1	700			
KEF-1	HOOD #2	500			
DAYROOM ZONE TOTALS		700	700	0	0%
EXISTING FANS	BATHROOM	210			
FURN-1	TRAINING		310		
TRAINING ROOM ZONE TOTALS		210	310	100	48%
BUILDING TOTALS		910	1,010	100	11%

SPLIT DIRECT EXPANSION (DX) EQUIPMENT																																			
MARK	TOTAL S.A. (CFM)	O.A. (CFM)	E.S.P. (IN WG)	MOTOR (HP)	INDOOR UNIT				CARRIER FURNACE BASIS OF DESIGN	CARRIER COIL BASIS OF DESIGN	MIN. REFR. (IN)	CARRIER BASIS OF DESIGN	NOMINAL TONNAGE	COMBINED COOLING CAPACITIES						REMARKS															
					GAS TYPE	EFF. (%)	GAS IN (BTU/H)	GAS OUT (BTU/H)						TOTAL (MBH)	SENS (MBH)	LAT (MBH)	E.S. Tot (°F)	E.S. Two (°F)	E.S. Tot (°F)						E.S. Two (°F)										
																										REFR. (BTU/H)	COND. (BTU/H)	COND. (BTU/H)	COND. (BTU/H)	COND. (BTU/H)					
FURN-1 / CU-1	1,600	310	0.50	3/4 ECM	NATURAL	92%	80,000	75,000	800F2A080121-20	CRPVP124AL	1.5.5	R-410A	24ACC44B	4.0	47.6	36.0	11.6	75.7	65.1	97.0	56.0	56.0	X	X	X	X	X	X	X	X	X	X	X	X	X
FURN-2 / CU-2	800	140	0.50	1/2 ECM	NATURAL	92%	40,000	37,000	800F2A040E14-10	CRPVP117AL	1.5.5	R-410A	24ACC42A	2.0	25.3	16.6	6.3	78.3	65.9	86.0	55.0	55.0	X	X	X	X	X	X	X	X	X	X	X	X	X

NOTES (APPLY TO ALL):

- SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
- SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/- 10% OF SCHEDULED CAPACITIES.
- BASIS OF DESIGN CARRIER SEE SPECIFICATIONS.  
ACCEPTABLE ALTERNATES: JCMWORKS, TRANE, DAIKIN/DAIKUWAY, LENNOX
- ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.
- AS AN ALTERNATIVE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR THE EQUIPMENT SUPPLIED DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.

REMARKS (APPLY AS SCHEDULED):

- PROGRAMMABLE THERMOSTAT.
- PIPE DIRECT VENTING KIT. PROVIDE CONCENTRIC TERMINATION AT ROOF OR WALL. REFER TO FLOOR PLAN. VENT SIZE, MATERIALS AND TERMINATION SHALL BE PER MANUFACTURER'S REQUIREMENTS.
- LOW AMBIENT PACKAGE.
- DISPOSABLE FILTER.
- ANTI-SHOCK CYCLE TIMER.
- INDOOR FAN DELAY KIT.
- DISCONNECT SWITCH PROVIDED BY ELECTRICAL SUBCONTRACTOR AS SHOWN IN THE INDOOR AND OUTDOOR UNIT SCHEDULE OF THE ELECTRICAL DOCUMENTS.
- MOUNT OUTDOOR CONDENSING UNIT ON CONCRETE FLOORING PAD. PAD SHALL BE A MINIMUM 4' X 4' AND SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE					
CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA @ MAX CFM	MODEL
RC2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
RS1616	EGGCRATE GRILLE	16x16	16x16	25	TITUS 50F
SC2424	EGGCRATE SUPPLY GRILLE	24x24	24x24	25	TITUS 50F
SC1616	LOUVERED FACE SUPPLY	24x24	60	25	TITUS TMS
SC1616	LOUVERED FACE SUPPLY	24x24	80	25	TITUS TMS

NOTES (APPLY TO ALL):

- AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.
- CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

FAN SCHEDULE														
MARK	DUTY	TYPE	PM	E.S.P. (IN WG)	DRIVE	NOISE (SONES)	CONTROL	BASIS OF DESIGN MODEL	REMARKS					
EF-A	EXHAUST	ROOF CENTRIFUGAL	3	1.0	DIRECT	8.4	TONG GAS SENSORS	GREENHECK G	X	X	X	X		
EF-I	EXHAUST	ROOF CENTRIFUGAL	2	0.5	DIRECT	5.7	SWITCHED WITH OCC. SENSOR	GREENHECK G	X	X	X	X		

NOTES (APPLY TO ALL):

- SEE ELECTRICAL DRAWINGS FOR POWER CHARACTERISTICS.
- DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY LOREN-COOP, TWIN-CITY, PENN BARRY.

REMARKS (APPLY AS SCHEDULED):

- FAN SPEED CONTROLLER.
- FACTORY DISCONNECT SWITCH/PLUG.
- GRAVITY BACKDRAFT DAMPER.
- FACTORY INSULATED ROOF CURB.

GRAVITY VENTILATORS													
MARK	MODEL SERIES	TYPE	SERVICE	CFM	THROAT AREA (SQ FT)	THROAT VELOCITY (FPM)	MAX. SP. (IN WG)	REMARKS					
HS-1	GRS	INTAKE	FURN-1, 2-OA INTAKE	450	1.12	402	0.05	X	X	X	X		
HS-2	GRS	INTAKE	EMERGENCY GARAGE MAKE-UP AIR	1,200	2.25	533	0.05	X	X	X	X		

REMARKS:

- INSULATED HOOD
- ALUMINUM BIRDSCREEN
- GRAVITY BACKDRAFT DAMPER
- FACTORY INSULATED ROOF CURB

UNIT HEATER - GAS									
MARK	AIRFLOW (CFM)	MOTOR (HP)	MIN. CAPACITY		GAS TYPE	MIN. EFF. (%)	BASIS OF DESIGN	MAX. WEIGHT (LBS)	REMARKS
			OUTPUT (MBH)	INPUT (MBH)					
UH-A	720	1/3	30.0	45.0	NATURAL	90%	MODNE-HD 48	60.0	
UH-I	330	1/2	45.0	60.0	NATURAL	90%	MODNE-HD 60	80.0	

NOTES (APPLY TO ALL):

- MINIMUM BOTTOM OF UNIT AS HIGH AS POSSIBLE.
- SUPPORT FROM ABOVE WITH VIBRATION ISOLATION DAMPERS.
- THERMOSTAT SET TO MAINTAIN 50°F.
- ADJUSTABLE VERTICAL & HORIZONTAL AIR FLOW DISCHARGE.
- HIGH LIMIT SAFETY CONTROL, DIFFERENTIAL PRESSURE SWITCH FOR PROOF OF VENTING, GAS CONTROL STEP DOWN TRANSFORMER WITH 24V GAE CONTROLS, FAN DELAY TIMER.

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- GENERAL CONSTRUCTION NOTES:**
- THE CONTRACTOR SHALL GUARANTEE TO THE OWNER ALL WORKMANSHIP AND MATERIALS, WHETHER FURNISHED BY THE CONTRACTOR OR SUB-CONTRACTORS, AGAINST DEFECTS FOR A MINIMUM PERIOD OF ONE (1) YEAR AFTER THE DATE OF FINAL ACCEPTANCE BY OWNER. FAILURE OF ANY SUCH ITEMS SHALL BE MADE GOOD BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
  - THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT FROM DAMAGE OR DESTRUCTION ALL EXISTING MATERIALS AND FINISHES TO REMAIN IN ADJACENT OR NEARBY AREAS. THE CONTRACTOR SHALL REPLACE ANY DAMAGED OR DESTROYED ITEMS BY OPERATIONS UNDER THIS CONTRACT.
  - PRODUCTS, TRADE NAMES AND/OR MANUFACTURERS NOTED WITHIN THESE DOCUMENTS ARE PROVIDED TO ESTABLISH A STANDARD OF QUALITY. UNLESS OTHERWISE INDICATED, APPROVED EQUAL PRODUCTS OF ANOTHER MANUFACTURER MAY BE USED WITH THE WRITTEN PERMISSION OF THE ARCHITECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUPPLIER TO PROVE TO THE ARCHITECT BEFORE THE DATE OF BID THAT THEIR PRODUCT IS EQUAL TO OR BETTER THAN THOSE PRODUCTS SPECIFIED. IF AN "OR EQUAL" PRODUCT IS USED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ANY NECESSARY CHANGES TO THE STRUCTURE AND INTERIOR LAYOUT AT THE CONTRACTOR'S OWN EXPENSE, AFTER OBTAINING THE ARCHITECT'S ACCEPTANCE OF SUCH CHANGES.
  - THE CONTRACTOR SHALL COORDINATE WITH THE OWNER A DESIGNATED SITE OR SITES FOR STORAGE OF MATERIALS AND EQUIPMENT FOR THE DURATION OF THE CONSTRUCTION CONTRACT.
  - DIMENSIONS SHOWN ON THE DRAWINGS ARE TO ROUGH SURFACES, EXCLUSIVE OF FINISH MATERIALS, EXCEPT AS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS.
  - THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT AND CURRENTLY ENFORCED BUILDING CODES BY ALL GOVERNING JURISDICTIONS, INCLUDING BUT NOT LIMITED TO ALL PROVISIONS OF THE AMERICAN WITH DISABILITIES ACT.

The contractor shall be responsible for all fees and obtaining all necessary and relevant permits and approvals relating to staging and construction of this project. The contractor shall comply with all relevant building, construction and work safety codes. The contractor shall verify all dimensions and elevations in the field before starting work and immediately report to the architect any discrepancies discovered.

PROFICIENT ENGINEERING  
 6981 Peachtree Industrial Blvd Building 110  
 Norcross, Georgia 30092  
 404.236.9798  
 PROJECT # 117880

GEORGIA REGISTERED PROFESSIONAL ENGINEER  
 No. 054808  
 LYNN D'AMICO

CLIENT: Owner

DRAWING TITLE: SCHEDULES

ISSUANCE: DATE: DRAWING NO.

Perkins SA 08/01/17

M-03

COMMISSION: Project Number

DRAWN BY: AS

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