

(THE WORD "CONTRACTOR" AS USED HEREIN SHALL MEAN THE HVAC SUBCONTRACTOR UNLESS OTHERWISE QUALIFIED.)

1. THE SPECIFICATIONS AND DRAWINGS DESCRIBE SCOPE OF WORK REQUIRED FOR MECHANICAL SYSTEMS. LABOR AND MATERIAL SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE, WORKMANLIKE INSTALLATION OF ALL SYSTEMS SHOWN ON DIAGRAMATIC DRAWINGS AND/OR AS SPECIFIED.
2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES AND NTPA RECOMMENDATIONS. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED, GIVE ALL LEGAL NOTICES, AND HAVE ALL WORK INSPECTED AS REQUIRED BY LOCAL OR STATE LAW.
3. COMPETENT SKILLED WORKMEN SHALL DO ALL WORK IN A FINISHED, THOROUGHLY SUPERFICIAL, AND GENTLEMANLIKE MANNER. THIS IS INTENDED TO PREFER PARTICULARLY TO SMALLER DETAILS NECESSARY BUT USUALLY NOT SPECIFIED OR INDICATED ON THE DRAWINGS. ALL SUBSTANDARD WORK, INSTALLED BY THIS CONTRACTOR, SHALL BE REPLACED BY THIS CONTRACTOR AT AN ADDITIONAL EXPENSE TO THE OWNER. THE COST OF REPLACEMENT OF THE DAMAGED WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. ENGINEER AND/OR OWNER'S REPRESENTATIVE SHALL BE THE JUDGE OF WORKMANSHIP AND THEIR OPINION WILL BE FINAL.

4. CONTRACTOR SHALL CONSTANTLY SUPERVISE THE WORK FROM THE BEGINNING TO COMPLETION AND FINAL INSPECTION.

5. DILIGENTLY PERFORM THE WORK AS RAPIDLY AS POSSIBLE

CIRCUMSTANCES SHALL THIS CONTRACTOR DELAY THIS PROJECT.

6. DETERMINE EXACT EQUIPMENT AND MATERIALS LOCATIONS TO PROVIDE BEST ARRANGEMENT AND TO FACILITATE PROPER MAINTENANCE AND SERVICING OF EQUIPMENT. DO NOT SCALE DRAWINGS. COORDINATE CLOSELY WITH ARCHITECT.

7. PROVIDE ALL NECESSARY SUPPORTS FOR MOUNTING ALL EQUIPMENT AND DUCTS. SUCH SUPPORTS TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, CARE TAKEN THAT BUILDING STRUCTURE IS NOT OVERLOADED, FIRMLY AND RIGIDLY WELDED OR BOLTED IN PLACE.

9. ALL EQUIPMENT FURNISHED SHALL BE UL APPROVED AND SHALL BE LABELED OR LISTED BY UL. NO EQUIPMENT SHALL BE APPROVED WHICH FAILS TO MEET THESE CONDITIONS.

10. CONTRACTOR SHALL CONSULT WITH THE ARCHITECT FOR STORAGE SPACE AT THE JOB SITE IF REQUIRED. STORAGE SPACE MUST BE SECURED AND CONTRACTOR'S REPRESENTATIVE MUST BE ON JOB BEFORE ANY MATERIAL MAY BE RECEIVED.

11. CONTRACTOR SHALL REMOVE ALL DEBRIS DUE TO THIS WORK AND SHALL REPAIR, CLEAN AND REPLACE ALL SURFACES DAMAGED OR SOILED AS A RESULT OF THIS WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. REMOVAL OF DEBRIS SHALL BE DAILY AS REQUIRED TO MAINTAIN SAFE WORKING CONDITIONS.

12. REFER TO DIVISION 15 SPECIFICATIONS FOR ADDITIONAL INFORMATION. NOTIFY ENGINEER PRIOR TO BIDDING IF THERE ARE CONFLICTS BETWEEN DESIGN DRAWINGS AND SPECIFICATIONS.

1. THE MECHANICAL CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND LAYOUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL EQUIPMENT, DUCTWORK, SUPPORTS, CONTROLS, ACCESSORIES, ETC.,... AND MECHANICAL ITEMS MADE OBSOLETE BY THESE ALTERATIONS AS SHOWN IN THE MECHANICAL DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY MECHANICAL WORK AS REQUIRED BY THE CONSTRUCTION OR AS DIRECTED BY THE OWNER OR THE ENGINEER, SURVEY THE AFFECTED AREAS BEFORE SUBMITTING A BID.

2. ALL EXISTING MECHANICAL EQUIPMENT AND UNLESS SPECIFICALLY NOTED TO BE REMOVED.

3. THESE DRAWINGS ARE COMPILED BY THE ARCHITECT/ENGINEER FROM THE OWNER'S AS-BUILT RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL DUCTWORK, PIPING, EQUIPMENT LOCATIONS, DIMENSIONS AND ALL FIELD CONDITIONS AFFECTING HIS WORK.

4. WHERE CHEMICAL SYSTEMS PASS THROUGH THE SHUTDOWNS ARE TO BE SEVERE OTHER PORTIONS OF THE PREMISES, THE SHALL REMAIN OR OPERATE UNDER PRESSURE AND TEMPERATURES THAT MAY BE DANGEROUS TO OPERATION, ADVISE THE ARCHITECT/ENGINEER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.

5. PROTECT ALL EXISTING LIFE SAFETY SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND ARCHITECT/ENGINEER IN WRITING OF SHUTDOWNS ARE REQUIRED PRIOR TO ANY DISRUPTION OF THESE SYSTEMS. TEMPORARY REPAIRS CANNOT BE TOLERATED BY THE OWNER. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.

6. SURVEY THE EFFECTED AREAS BEFORE SUBMITTING A BID AS ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEPICTED ON THE DRAWINGS AND SOME UNUSUAL CONDITIONS EXIST.

1. CONTRACTOR SHALL PROVIDE AND INSTALL MECHANICAL EQUIPMENT, DUCTWORK AND CONTROLS AS SHOWN ON DESIGN DOCUMENTS AND SPECIFICATIONS.

2. CONTRACTOR SHALL BALANCE NEW TERMINAL UNIT 21C AND DIFFUSERS, CONTRACTOR SHALL REBALANCE EXISTING TERMINAL UNIT 21B AND DIFFUSERS.

3. CONTRACTOR SHALL PROVIDE ALL DDC AND PNEUMATIC CONTROLS NECESSARY FOR NEW TERMINAL UNIT. CONTRACTOR SHALL MODIFY EXISTING USER INTERFACE. THE EXISTING CONTROLS ARE INVENTS, COMPLETE BUILDING AUTOMATION SYSTEM DRAWINGS AND SPECIFICATIONS ARE AVAILABLE FROM THE OWNER BY WRITTEN REQUEST.

4. FORMAL SPECIFICATIONS HAVE BEEN PREPARED AS PART OF THESE DESIGN DOCUMENTS. WHILE GREAT CARE HAS BEEN TAKEN TO PROVIDE IDENTICAL SPECIFICATION OF EQUIPMENT AND MATERIALS, CONTRADICTIONS MAY EXIST. IF CONTRADICTIONS BETWEEN THESE DESIGN DOCUMENTS AND EXISTING EQUIPMENT AND MATERIALS EXIST, CONTRACTOR SHALL MATCH EXISTING.

DRINKING CODE	WATER TOLERANCE	MODE	DESCRIPTION
RG1	PRICE OR APPROVED EQUAL	80FF	12X12 NECK, 24X24 FACE, ALUMINUM FACE, EGGRATE

NOTES:

1. INLET AND OUTLET SELECTION SHALL BE APPROVED BY GENERAL CONTRACTOR AND OWNER

DRAWING CODE	CFM		(A) DISCHARGE N.C.	(B) (C) RADIATED N.C.	(D) ESP. IN.	(E) PRESS. DIFF. IN.	CAP. MBH	EDB °F	VALVE (G)		BRANCH PIPING SIZE	CFM
	MAX.	MIN.							SIZE	Cv		
21B (H)	1840	45	—	—	0.19	0.78	76.2	52	1/2"	3.6	1"	7.1
700	700	44	—	—	0.15	0.53	31.1	52	1/2"	2.2	3/4"	2.9

A. BASED ON SCHEDULED AIRFLOW, 0.50" PRESSURE DIFFERENCE FROM TERMINAL INLET TO DISCHARGE, 10DB ROOM ATTENUATION, AND 2 ROW COIL.

B. SOUND EMANATING FROM CASING, BASED ON SCHEDULED AIRFLOW, 0.50" PRESSURE DIFFERENCE FROM TERMINAL INLET TO DISCHARGE, 10dB ROOM ABSORPTION, CEILING PLENUM ABSORPTION AND TRANSMISSION LOSS OF 10dB, OCTAVE BANDS 2-4, AND 150B, OCTAVE BANDS 5-7, AND 2 ROW COLL.

5. PROFIT ( ) INDIVIDUALS WHO LIVE IN THE U.S.

E. MINIMUM STATIC PRESSURE DIFFERENCE FROM INLET TO DISCHARGE WITH 2 ROW COIL AND ATTENUATOR, FOR THE SCHEDULED AIRFLOW. BASED ON 2007 EWT.

H. 21B EXISTING TERMINAL UNIT SCHEDULED FOR BALANCING PURPOSES.

NOT TO SCALE

NOT TO SCALE

DEG F	DEGREES FAHRENHEIT	INCHES	KILOWATT	LEAVING AIR TEMPERATURE	MAXIMUM CIRCUIT CAPACITY	1000 BRITISH THERMAL UNIT	AIR HANDLING UNIT NUMBER	CONDENSING UNIT NUMBER	HEAT PUMP UNIT NUMBER	ROTATIONS PER MINUTE	INTAKE GRILLE NUMBER	EXHAUST GRILLE NUMBER	RETURN GRILLE NUMBER	SEASONAL ENERGY EFFICIENCY RATIO	WATER GAUGE	BRITISH THERMAL UNIT PER HOUR	DESIGNATES EXISTING DUCT, GRILLE, ETC.	SUPPLY AIR	ENTERING WATER TEMPERATURE	ENTERING DRY BULB								
EAT	ENTERING AIR TEMPERATURE	ESP	EXTERNAL STATIC PRESSURE	FLA	FULL LOAD AMPS	FEET PER MINUTE	COEFFICIENT OF PERFORMANCE FACTOR	HSP	HORSEPOWER	INCHES	KILOWATT	LAT	MAXIMUM CIRCUIT CAPACITY	1000 BRITISH THERMAL UNIT	AIR HANDLING UNIT NUMBER	CONDENSING UNIT NUMBER	HEAT PUMP UNIT NUMBER	ROTATIONS PER MINUTE	INTAKE GRILLE NUMBER	EXHAUST GRILLE NUMBER	RETURN GRILLE NUMBER	SEASONAL ENERGY EFFICIENCY RATIO	WATER GAUGE	BRITISH THERMAL UNIT PER HOUR	DESIGNATES EXISTING DUCT, GRILLE, ETC.	SUPPLY AIR	ENTERING WATER TEMPERATURE	ENTERING DRY BULB

show construction conditions in place based on mark-up drawings provided by the Contractor utilizing methods of reasonable practice and care. Field verification by the Engineer was not provided.

Dated: \_\_\_\_\_  
By: \_\_\_\_\_

601 South College Rd.  
Wilmington, NC 28403

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Project Number	Date
0414	3/21/2005

JBS

As Noted

Drawing 116

## Mechanical

## Legend, Notes, Schedules & Details

Sheet Number  
1 of 3

# M-001