AIR SOURCE HEAT PUMP (TYPICAL OF 1)
RUN CONDITIONS – SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

OCCUPIED MODE: THE UNIT SHALL MAINTAIN

1. A 74°F (ADJ.) COOLING SETPOINT
2. A 70°F (ADJ.) HEATING SETPOINT

UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN

1. A 85°F (ADJ.) COOLING SETPOINT.
2. A 55°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
2. LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

FAN:
THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES.

COOLING – 1 COMPRESSOR STAGE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND CYCLE THE COMPRESSOR TO MAINTAIN ITS SETPOINT. TO PREVENT SHORT CYCLING, THE STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME. THE COMPRESSOR SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

COMPRESSOR RUNTIME EXCEEDED: THE COMPRESSOR RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN AND COMPRESSOR STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

1. FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
2. FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
3. FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).
4. COMPRESSOR FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

CONTROLS LEGEND

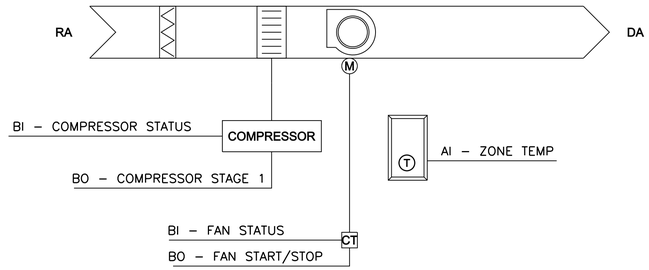
- CT – CONTACTOR
- Ⓒ – CARBON MONOXIDE SENSOR
- Ⓜ – MOTOR STARTER
- $ – WALL MOUNTED SWITCH
- Ⓣ – TEMPERATURE SENSOR

GENERAL NOTES

1.SEE M–001 FOR GENERAL NOTES, LEGEND, AND SYMBOL LEGEND.

2.ALL MECHANICAL CONSTRUCTION SHALL COMPLY WITH THE UNIFIED FACILITIES CRITERIA FOR MECHANICAL SYSTEMS.

POINT NAME	AI	AO	BI	BO	ALARM
ZONE TEMP	●				
FAN STATUS			●		
COMPRESSOR STATUS			●		
FAN START/STOP				●	
COMPRESSOR STAGE 1				●	
SCHEDULE					
HEATING SETPOINT					
COOLING SETPOINT					
HIGH ZONE TEMP					●
LOW ZONE TEMP					●
COMPRESSOR RUNTIME EXCEEDED					●
FAN FAILURE					●
FAN IN HAND					●
FAN RUNTIME EXCEEDED					●
COMPRESSOR STATUS					
TOTALS	1	0	2	2	6



3 / M–602 HP–1 AND DAH–1,2 CONTROLS
SCALE : NTS

3 MARCH 2010 BUILDING DESIGN FINAL DESIGN FOR CONSTRUCTION

MARK	DESCRIPTION	DATE	APPR.
A	100% PRE-FINAL DESIGN	11/06/09	
B	FINAL DESIGN FOR CONSTRUCTION	03/03/10	

US Army Corps of Engineers®
Huntsville Center

U.S. ARMY CORPS OF ENGINEERS
HUNTSVILLE CENTER

DESIGNED BY: SMH
DWN BY: SMH
CKD BY: JDL
SUBMITTED BY: KCI TECHNOLOGIES
PLOT SCALE: AS POSTED
SIZE: ANSI D
DATE: 29-JULY-2009
SOLICITATION NO.: W912DY-09-R-0020
CONTRACT NO.: W912DY-09-C-0003
FILE NUMBER: XXXX-XXXXX
PLOT DATE:
FILE NAME: FS_M-602.dgn

15TH STREET FIRE STATION
FORT STEWART, GEORGIA

HOT WATER FLOW DIAGRAM

SHEET IDENTIFICATION
M-605
SHEET 103 OF 117

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121 EAST GOVERNMENT STREET
PENSACOLA, FL 32502 (850)432-1912

FILE: XXXXXX.DWG

NORTH CAROLINA PROFESSIONAL SEAL 028374 ENGINEER JOHN D. JENNINGS
3-3-10

"01:44 PM on Thursday, March 04, 2010"
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