SHEET No.

<u>12</u> OF <u>15</u>

CHAS. ROBERTS AIR CONDITIONING, INC. 9828 N. 19th AVENUE PHOENIX, ARIZONA 85021

BUILDER: windamere homes

DATE: 03-05-1999

SENSIBLE 22608 LATENT 920 TOTALS

19272

GAS/ELECTRIC

UNIT A - GOODMAN 3 TON GAS/ELECTRIC SPLIT AIR CONDITIONING SYSTEM MODEL CK36-1(OUTDOOR)/H-36(COIL)/GMPH075-4(GAS FURNACE)

33000 BTU/H COOLING 50000 BTU/H HEATING FLA. 17.5/6.1

HOODS - ROUGH-IN EXHAUST FANS - FF-1 = AIRO

EXHAUST FANS - EF-1 = AIRO 650EF-2 = AIRO 2510

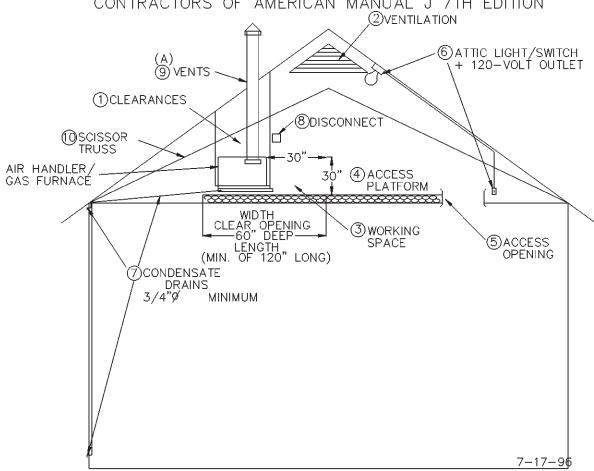
REGISTERS - RRAC 800-50/150

R/A GRILLES - RRAC 50GH-5FF

DESIGN CONDITIONS

WINTER OUTSIDE TEMPERATURE 34 DB

OUTSIDE TEMPERATURE 110 DB - 71 WB INSIDE TEMPERATURE 74 DB INSIDE TEMPERATURE 78 DB - 63 WB



REQUIREMENTS FOR ATTIC AIR HANDLER OR GAS FURNACE

1. CLEARANCES FROM COMBUSTABLE MATERIALS FOR GAS FIRED FURNACES MUST BE AS SPECIFIED IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPLICABLE LOCAL BUILDING CODES. (A)

2. VENTILATION — THE NET Free VENTILATION AREA SHALL NOT BE LESS THAN 1/150 of the area
OF THE SPACE VENTILATED.
EXECPTIONS: THE AREA MAY BE 1/300 OF THE AREA OF THE SPACE VENTILATED PROVIDED 50
PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS
LOCATED IN THE UPPER PORTION OF THE SPACE VENTILATED AT LEAST 3 FEET
ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION

PROVIDED BY EAVE OR CORNICE VENTS.

4. access platform — the access platform must be a minimum of 24 inches wide continious floor not more than 20 feet in length unless the entire AIR HANDLER/furnace can be serviced from the attic access opening. * make provisions for propér insulation to be installed under the platforms

30 INCHES X 30 INCHES.

execption: the access opening into the space may be 22 inches by 30 inChes provided the largest piece of equipment can be removed through this

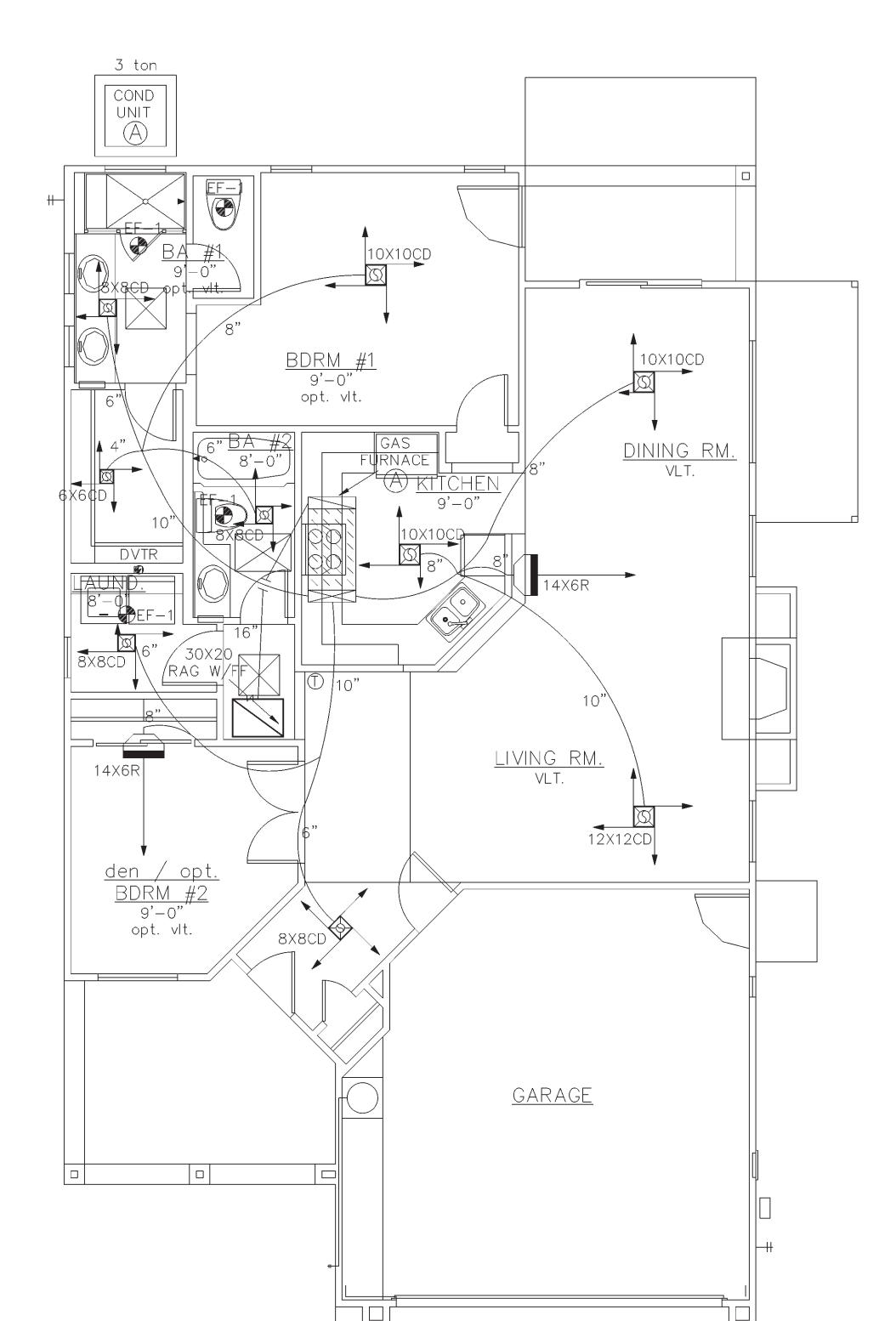
AIR HANDLER/furnace.

8. disconnect — a positive means of electrical disconnect must be located at or near the AIR HANDLER/furnace.

vents must terminate in accordance to u.m.c. requirements provided they are at least 8 feet from any vertical wall of 45 DEGREES or more and terminate not less that 2 feet higher than the highest point they pass through. (A)

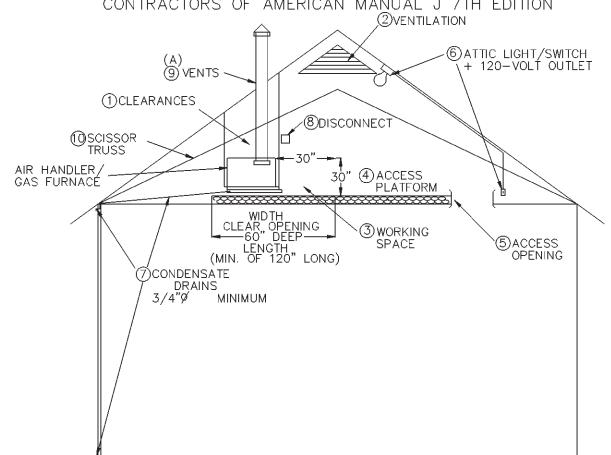
the specifications above meet the minimum requirements established in the 1988, 1991, 1994 u.b.c and u.m.c.

(A) - APPLIES TO GAS FURNACE ONLY. 11-4-96



SUMMER

LOAD CALCULATED IN ACCORDANCE WITH AIR CONDITIONING



* REQUIRED ATTIC VENTILATION EXCEEDS REQUIREMENTS FOR FURNACE COMBUSTION AIR. (A)

3. WORKING SPACE — A WORKING PLATFORM must NOT be LESS THAN 30 inches in depth fOR THE ENTIRE SERVICE SIDE OF THE FURNACE WITH A minimum height of

5. access opening — attic openings and passageways to the AIR HANDLER/furnace must be

6. attic light — a permanent 120—volt receptical outlet and lighting fixture controlled by a switch located at the required passage way opening shall be provideD at or near the

7. condensate drains — a secondary drain pan must be installed under the coil section to prevent damage to the ceiling below. the secondary drain must be installed with a minimum grade of 1/8 inch per 12 inches of horizontal run and must exit to the outside where it can be readily visible.

9. vents— type b vent, size per furnace manufactures specifications.

10. if furnace is located below scissor truss the recommend insulating proceedure is along ceiling LINE below the furnace not along scissor above to provide proper combustion AIR with out COMPROMISING the integrity of the thermal envelope by penetrating it with combustion ducts. (A)