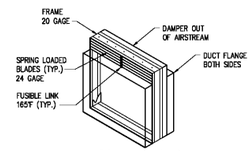
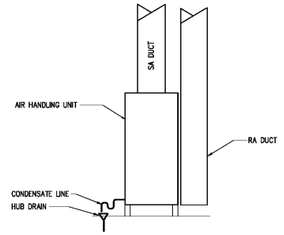
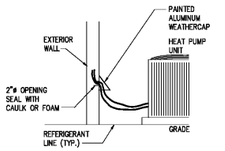


TYPE "B" DAMPER (1-1/2 HR)
VERTICAL OR HORIZONTAL
UL-555 RATING

1 G-M.2 FIRE DAMPER ASSEMBLY
NOT TO SCALE

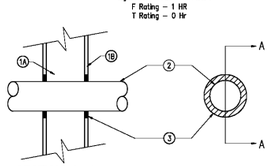


2 G-M.2 TYP. APARTMENT AIR HANDLER DETAIL
NOT TO SCALE



3 G-M.2 REFRIGERANT LINE ENTRY DETAIL
NOT TO SCALE

System No. W.L1084
F Rating – 1 HR
T Rating – 0 Hr

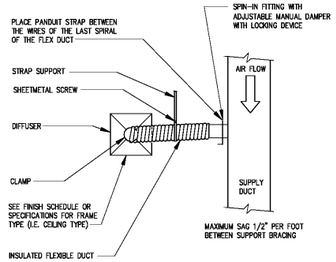


SECTION A–A

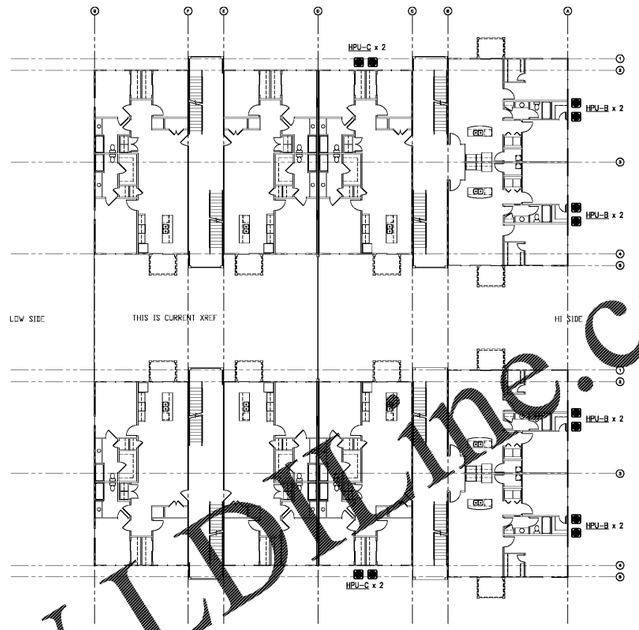
1. Wall Assembly – The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistant Directory and shall include the following construction features:
   A. Studs–Wall framing may consist of of either wood studs or steel channel studs. Wood studs to consist of nom. 2 by 4 in. lumberspaced 16 in. O.C. Steel studs to be min. 3–5/8 in. wide and spaced max. 24 in. O.C.
   B. Wallboard Gypsum–Nom. 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Diam. of opening is 1–1/2 in. larger than the outside diam. of pipe.
2. Through–Penetrant–One metallic pipe, conduit or tubing to be centered within the firestop system. An annular space of 3/4 in. is required within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe–Nom. 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Conduit–Nom. 6 in. diam (or smaller) electrical metallic tubing or steel conduit.
   C. Copper Tubing–Nom. 6 in. diam (or smaller) Type L (or heavier) copper pipe.
   D. Copper Pipe–Nom. 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material*–Sealant–Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall assembly.
   Minnesota Mining & Mfg. Co.–FB–2000+

*Bearing the UL Classification Marking

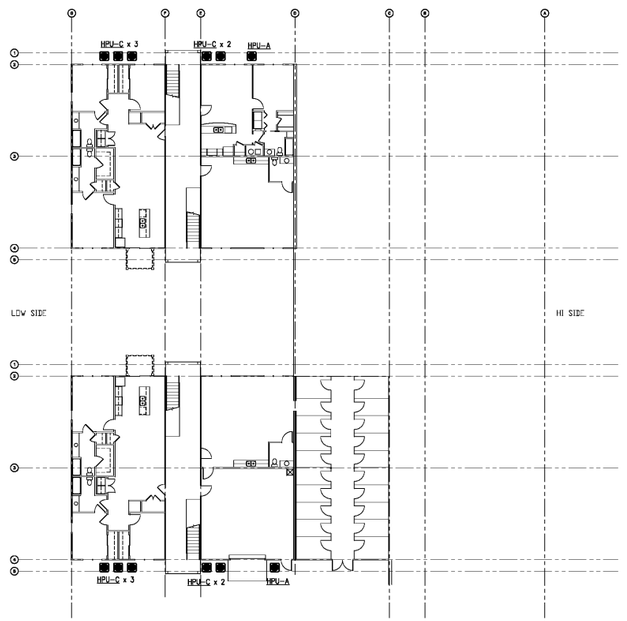
5 G-M.2 FIRE RATED PIPE PENETRATION
NOT TO SCALE



4 G-M.2 DIFFUSER CONNECTION DETAIL
NOT TO SCALE



8 G-M.2 MECHANICAL 2ND FLOOR PLAN
1/16" = 1'-0"

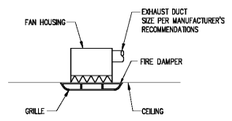


7 G-M.2 MECHANICAL 1ST FLOOR PLAN
1/16" = 1'-0"

FANS

MARK	SERVICE	TYPE	CFM	WATTS	ESP IN WC	DRIVE	SONES	UNIT WT (LBS)	BASIS OF DESIGN GREENHECK	REMARKS
EF–A	PRIVATE RR	CABINET	50	38	0.1	DIRECT	1.9		SP–80	①②③④
EF–B	PUBLIC RR	CABINET	70	45	0.1	DIRECT	1.4		SP–B80	①②③④

① BACKDRAFT DAMPER ② DISCONNECT SWITCH ③ CONTROLLED W/LIGHTS ④ WALL DAMPER



6 G-M.2 EXHAUST FAN DETAIL
NOT TO SCALE

AIR HANDLING UNITS

MARK	SERVICE	TONS	CFM	OA CFM	COOLING CAPACITY TOTAL MBH	COOLING CAPACITY SENS. MBH	HEATING CAPACITY	MAX HP	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTAGE	UNIT WT (LBS)	BASIS OF DESIGN GOODMAN	REMARKS
AHU–A	GENERAL	1.5	600	③	17.1	11.8	5 KW	1/3	25/28	30/30	208/230/1	140	ARPF–303016B	①②
AHU–B	GENERAL	2.0	800	③	22.8	15.7	5 KW	1/3	25/28	30/30	208/230/1	140	ARPF–303016B	①②
AHU–C	GENERAL	2.5	1000	③	29.2	18.7	8 KW	1/3	35/40	40/40	208/230/1	150	ARPF–363616B	①②
THHP	TYPICAL ROOM	1.25	360	50	15	10.3	4 KW		20/22	30	208/230/1	120	ISLANDAIRE EZ42–15	① ④⑤⑥

HEAT PUMP UNITS

MARK	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTAGE	SEER	UNIT WT (LBS)	BASIS OF DESIGN GOODMAN
HPU–A	12.2	20	208/230/1	14	143	GSZ14–018
HPU–B	14.6	25	208/230/1	14	143	GSZ14–024
HPU–C	17.8	30	208/230/1	14	171	GSZ14–030

① DISCONNECT ② SMOKE DETECTOR ③ SEE CALCULATIONS ④ WALL SLEEVE AND SUB–BASE ⑤ EXTERIOR DRAIN KIT ⑥ ROUTE CONDENSATE TO EXTERIOR

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GEORGIA REGISTERED NO. 19065 PROFESSIONAL ENGINEER FREDERICK W. KEERNEY 6/3/14

G-1 AND G-2
WISTERIA RIDGE

Will-O-War llc
75 north Main Street
Watkinsville, GA 30677

Issue & Revisions:

No.	Date	Description

MECHANICAL
DETAILS & SPECS

Drawn: RK
Checked: RK
Contract No.: 07–03
Scale: AS NOTED

G–M.2

of sheets

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