

PRELIMINARY
NOT FOR
CONSTRUCTION

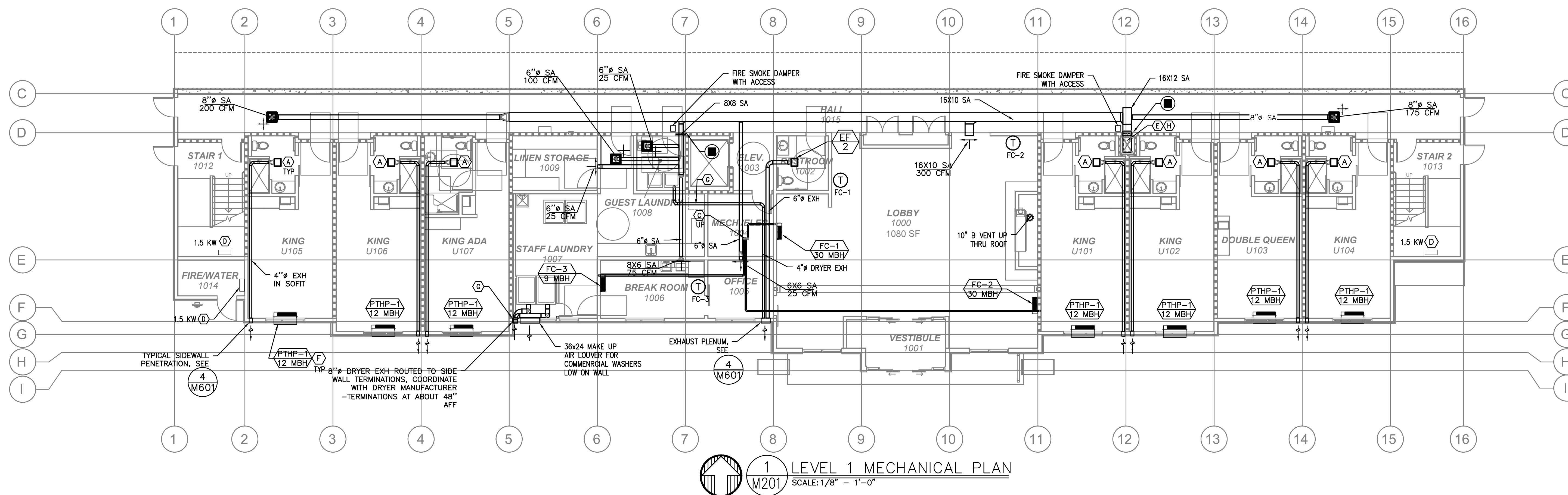
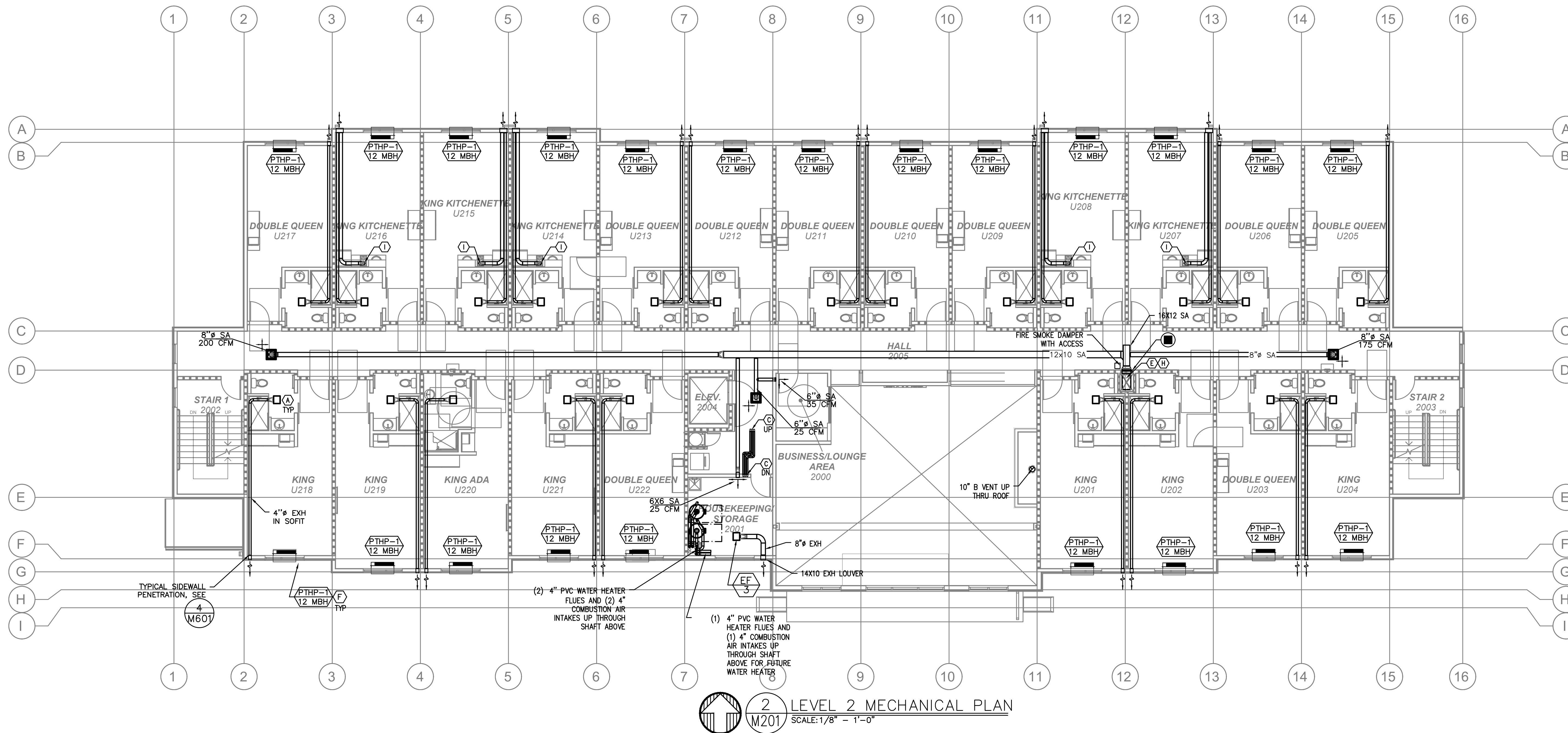
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MEDIA Consulting Engineers
6007 S.E. Ash St.
Portland, OR 97214
PH: (503) 234-0548
FAX: (503) 234-0877
INC. WWW.MEDIA-ENG.COM
CONTACT: MARK DENYER

11-21



PROJECT NUMBER:
**THE BUNKHOUSE
AT CROSS KEYS**

66 NW CEDAR ST
MADRAS, OR 97741

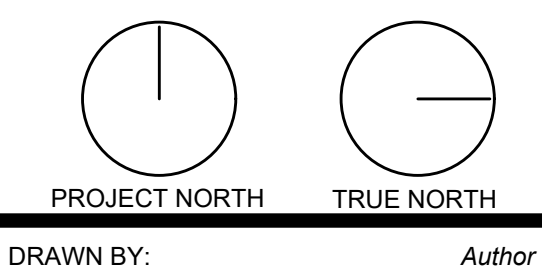


KEY NOTES:

- (A) - PANASONIC WHISPERGREEN CEILING FAN WITH 4" DUCT TO ROOF OR EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO FAN, FAN TO OPERATE AT LOW SPEED CONTINUOUS (30 CFM) AND INCREASE TO 80 CFM WHEN BUILT-IN MOTION SENSOR IS ACTIVATED. INSULATED FINAL 5' OF DUCTWORK. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. SEE (M601) (EF 1)
- (B) - FOR 4" & 6" UL FIRE PENETRATION DETAIL, SEE (M602) (2)
- (C) - LINE SETS FROM SPLIT SYSTEM CONDENSERS ON ROOF TO FAN COILS ON LEVEL 1 & 3.
- (D) - XX KW WALL HEATER QMARK AWH4404F OR EQUAL EQUIPMENT BY ELECTRICAL CONTRACTOR. SHOWN FOR REFERENCE ONLY.
- (E) - FOR CORRIDOR SHAFT SIZE, SEE BELOW CHARTS
- (F) - AMANA PTHP (PACKAGED TERMINAL HEAT PUMP) WITH FACTORY WALL SLEEVE, CONDENSATE DRAIN KIT, AND 42X16 ALUMINUM ARCHITECTURAL GRILLE AT EXTERIOR. INSTALL GRAVITY CONDENSATE DRAIN KIT, PLUMBING CONTRACTOR TO MAKE CONNECTION AT DRAIN KIT AND CONTINUE DRAIN LINE TO AN APPROVED LOCATION. SEE (M602) (3)
- (G) - 4" DRYER EXHAUST (SEE PLANS FOR SIZE) TO EXTERIOR WALL TERMINATION. DRYER DUCT MATERIAL SHALL HAVE A SMOOTH INTERIOR FINISH, BE CONSTRUCTED OF 26 GA SHEET METAL, SUPPORTED AT 4 FOOT INTERVALS, RIVET OR SCREW PENETRATIONS THROUGH THE DUCT WALL ARE NOT ACCEPTABLE. IDENTIFY TOTAL EQUIVALENT LENGTH OF DRYER VENT WITH PERMANENT LABEL WITHIN 6FT OF DRYER CONNECTION.
- (H) - FSD FOR CORRIDOR VENTILATION, SEE (M601) (5)
- (I) - 6" HOOD DUCT TO ROOF/EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO HOOD. INSULATED FINAL 5' OF DUCTWORK. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY.

SHEET TITLE:
**LEVEL 1, LEVEL 2
MECHANICAL PLAN**

KEY PLAN:



SHAFT DUCT SIZES

FLOOR	SUPPLY AIR *	CFM	RETURN AIR	CFM	UNIT
ATTIC	LINED 30X18	2400	NA	0	RTU-1
3RD	LINED 30X18	2400	NA	0	RTU-1
2ND	LINED 28X16	1400	NA	0	RTU-1
1ST	LINED 28X16	1000	NA	0	RTU-1

* SIZE IS EXTERNAL DUCT SIZE WITH 1" INTERNAL LINING

VENTILATION CALCULATIONS:

ALL DWELLING UNITS ARE VENTILATED BY NATURAL VENTILATION WITH OPERABLE WINDOWS (NO LIMITERS) AND PTHP OSA INTAKE, BATHROOM EXHAUST FANS RUN CONTINUOUSLY (SIZED PER ASHRAE 62.2).

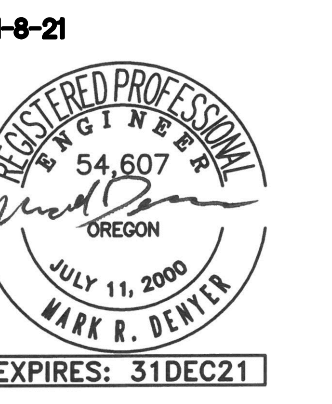
COMMON SPACES AND HALLWAYS ARE VENTILATED BY RTU'S SIZED TO EXCEED THE MINIMUM 0.06 CFM/SQ FT REQUIREMENT

SEE VENTILATION SCHEDULES FOR OTHER UNITS

SHEET:
M201
PERMIT SET
11/8/21

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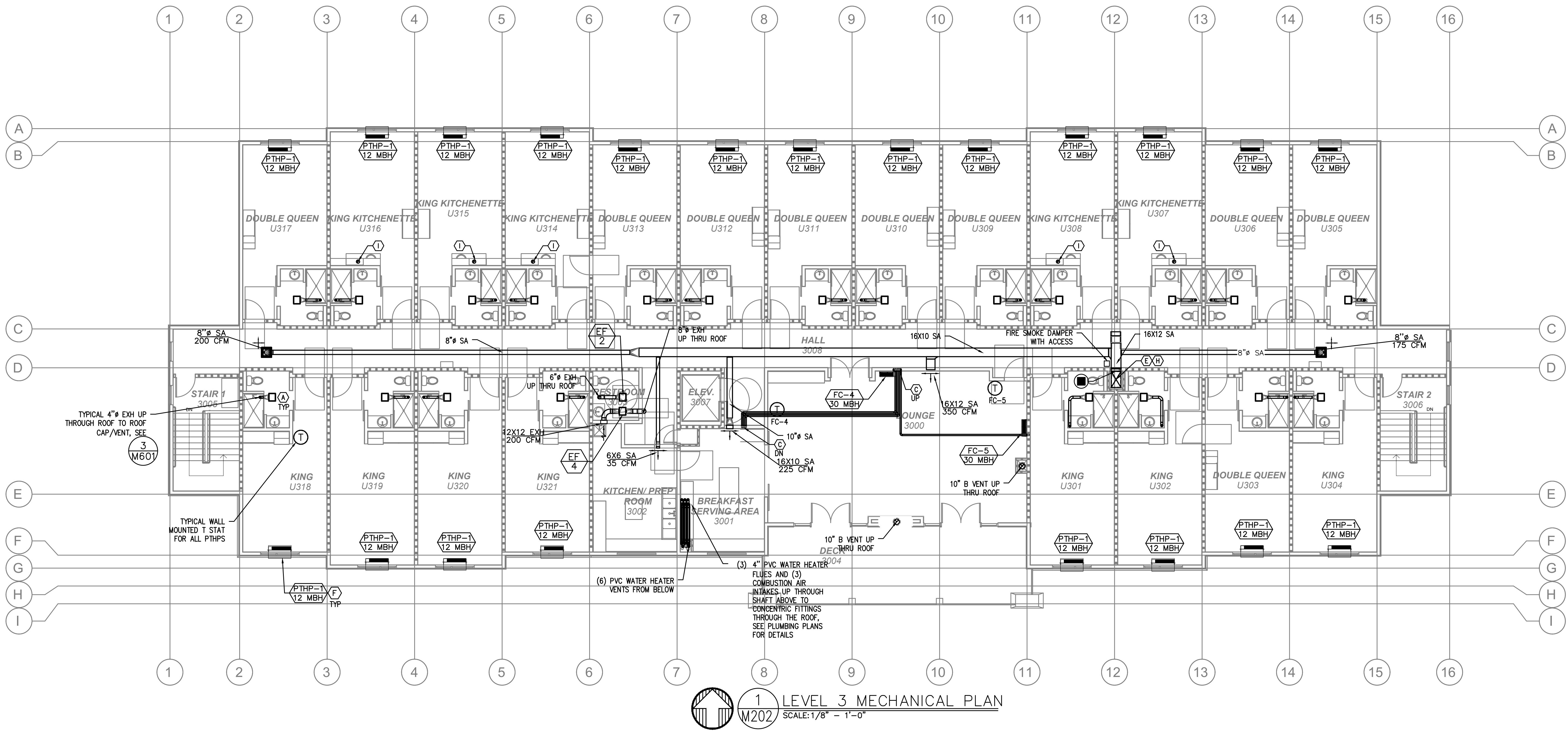
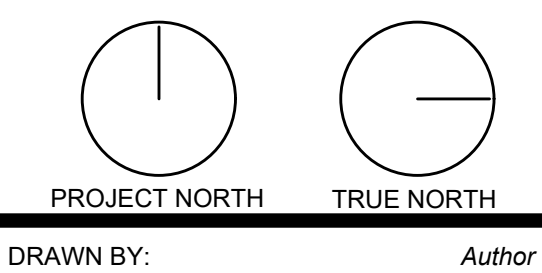


PROJECT NUMBER:
**THE BUNKHOUSE
 AT CROSS KEYS**

66 NW CEDAR ST
 MADRAS, OR 97741

SHEET TITLE:
**LEVEL 3
 MECHANICAL PLAN**

KEY PLAN:



KEY NOTES:

- A - PANASONIC WHISPERGREEN CEILING FAN WITH 4" DUCT TO ROOF OR EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO FAN, FAN TO OPERATE AT LOW SPEED CONTINUOUS (30 CFM) AND INCREASE TO 80 CFM WHEN BUILT-IN MOTION SENSOR IS ACTIVATED. INSULATED FINAL 5' OF DUCTWORK. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. SEE (2) M601, (2) EF 1
- B - FOR 4" & 6" UL FIRE PENETRATION DETAIL, SEE (1) M602, (2) M602
- C - LINE SETS FROM SPLIT SYSTEM CONDENSERS ON ROOF TO FAN COILS ON LEVEL 1 & 3.
- D - XX KW WALL HEATER QMARK AWH4404F OR EQUAL EQUIPMENT BY ELECTRICAL CONTRACTOR. SHOWN FOR REFERENCE ONLY.
- E - FOR CORRIDOR SHAFT SIZE, SEE BELOW CHARTS
- F - AMANA PTHP (PACKAGED TERMINAL HEAT PUMP) WITH FACTORY WALL SLEEVE, CONDENSATE DRAIN KIT, AND 42X16 ALUMINUM ARCHITECTURAL GRILLE AT EXTERIOR. INSTALL GRAVITY CONDENSATE DRAIN KIT, PLUMBING CONTRACTOR TO MAKE CONNECTION AT DRAIN KIT AND CONTINUE DRAIN LINE TO AN APPROVED LOCATION. SEE (3) M602
- G - 4" DRYER EXHAUST (SEE PLANS FOR SIZE) TO EXTERIOR WALL TERMINATION. DRYER DUCT MATERIAL SHALL HAVE A SMOOTH INTERIOR FINISH, BE CONSTRUCTED OF 26 GA SHEET METAL, SUPPORTED AT 4 FOOT INTERVALS, RIVET OR SCREW PENETRATIONS THROUGH THE DUCT WALL ARE NOT ACCEPTABLE. IDENTIFY TOTAL EQUIVALENT LENGTH OF DRYER VENT WITH PERMANENT LABEL WITHIN 6FT OF DRYER CONNECTION.
- H - FSD FOR CORRIDOR VENTILATION, SEE (5) M601
- I - 6" HOOD DUCT TO ROOF/EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO HOOD, INSULATED FINAL 5' OF DUCTWORK. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY.

SHAFT DUCT SIZES					
FLOOR	SUPPLY AIR *	CFM	RETURN AIR	CFM	UNIT
ATTIC	LINED 30X18	2400	NA	0	RTU-1
3RD	LINED 30X18	2400	NA	0	RTU-1
2ND	LINED 28X16	1400	NA	0	RTU-1
1ST	LINED 28X16	1000	NA	0	RTU-1

* SIZE IS EXTERNAL DUCT SIZE WITH 1" INTERNAL LINING

VENTILATION CALCULATIONS:

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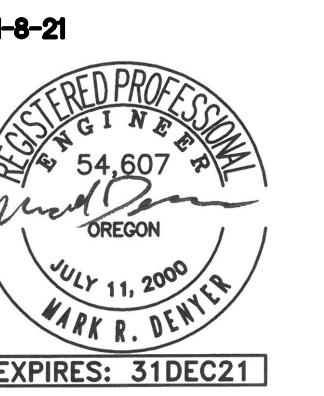
COMMON SPACES AND HALLWAYS ARE VENTILATED BY RTU'S SIZED TO EXCEED THE MINIMUM 0.06 CFM/SQ FT REQUIREMENT

SEE VENTILATION SCHEDULES FOR OTHER UNITS

SHEET:
M202
 PERMIT SET
 11/8/21

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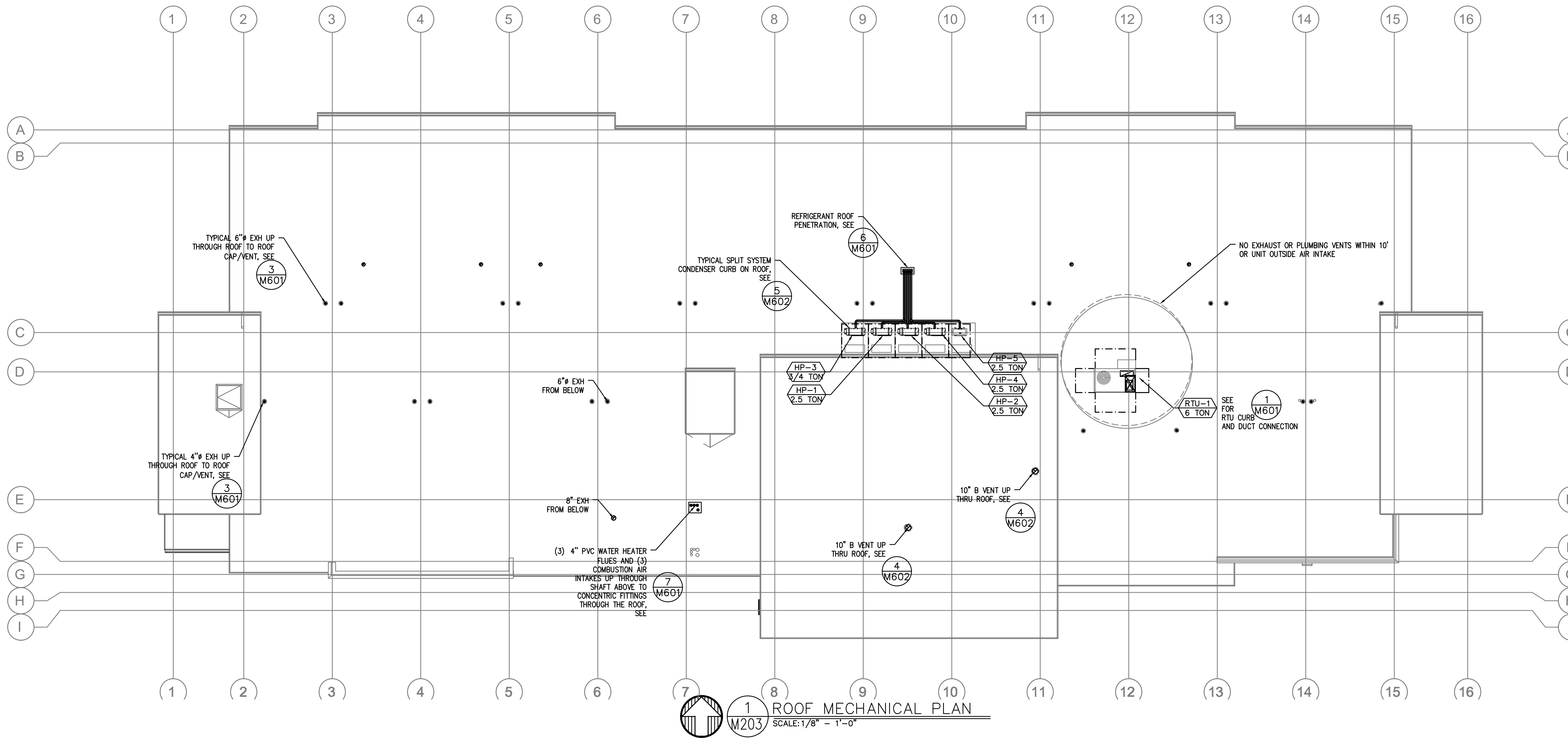
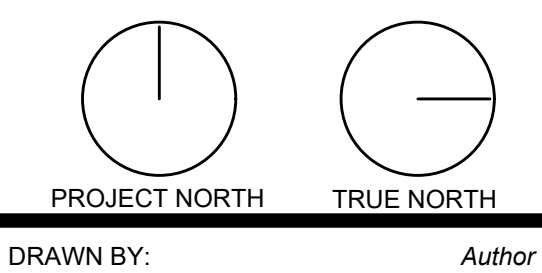


PROJECT NUMBER:
**THE BUNKHOUSE
 AT CROSS KEYS**

66 NW CEDAR ST
 MADRAS, OR 97741

SHEET TITLE:
**ROOF
 MECHANICAL PLAN**

KEY PLAN:



KEY NOTES:

- (A) - PANASONIC WHISPERGREEN CEILING FAN WITH 4" DUCT TO ROOF OR EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO FAN. FAN TO OPERATE AT LOW SPEED CONTINUOUS (30 CFM) AND INCREASE TO 80 CFM WHEN BUILT-IN MOTION SENSOR IS ACTIVATED. INSULATED FINAL 5' OF DUCTWORK. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. SEE (2) (M601) (EF 1)
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- (C) - LINE SETS FROM SPLIT SYSTEM CONDENSERS ON ROOF TO FAN COILS ON LEVEL 1 & 3.
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SHAFT DUCT SIZES				
FLOOR	SUPPLY AIR *	CFM	RETURN AIR	UNIT
ATTIC	LINED 30X18	2400	NA	0
3RD	LINED 30X18	2400	NA	0
2ND	LINED 28X16	1400	NA	0
1ST	LINED 28X16	1000	NA	0

* SIZE IS EXTERNAL DUCT SIZE WITH 1" INTERNAL LINING

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COMMON SPACES AND HALLWAYS ARE VENTILATED BY RTU'S SIZED TO EXCEED THE MINIMUM 0.06 CFM/SQ FT REQUIREMENT

SEE VENTILATION SCHEDULES FOR OTHER UNITS

SHEET:
M203
 PERMIT SET
 11/8/21

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11-9-21
REGISTERED PROFESSIONAL
MECHANICAL ENGINEER
NO. 54,607
OREGON
JULY 11, 2006
MARK R. DENYER
EXPIRES: 31DEC21

PROJECT NUMBER:
**THE BUNKHOUSE
AT CROSS KEYS**

66 NW CEDAR ST
MADRAS, OR 97741

SHEET TITLE:
**MECHANICAL
SCHEDULES AND
DETAILS**

KEY PLAN:

PROJECT NORTH TRUE NORTH
DRAWN BY: Author

SHEET:
M601
PERMIT SET
11/8/21
LRS Architects, Inc. © 2021

WCL Series Low Profile Intake Vents

Technical Data Sheet

FEATURES & BENEFITS

- Enhances aesthetics with low profile that blends with the installation location.
- Suitable for intake and exhaust applications where low profile is preferred.
- Over-sized flange ensures water-tight installation.
- The integrity of the building envelope is maintained via a removable hood for simple duct cleaning.
- Made with UV-protected polymer resin for lasting durability.
- Highly resistant to mechanical impact.
- Built-in bird screen.
- Quick and easy installation.

PRODUCT DIMENSIONS
HOOD SIZE: H: 10.25" / W: 12.3" / D: 1.7"

COLOURS

- Black (23)
- Light Grey (31)
- Dark Grey (28)
- Taupe (23)
- Tan (45)
- Dark Brown (68)
- Snow White (01)

APPLICATIONS

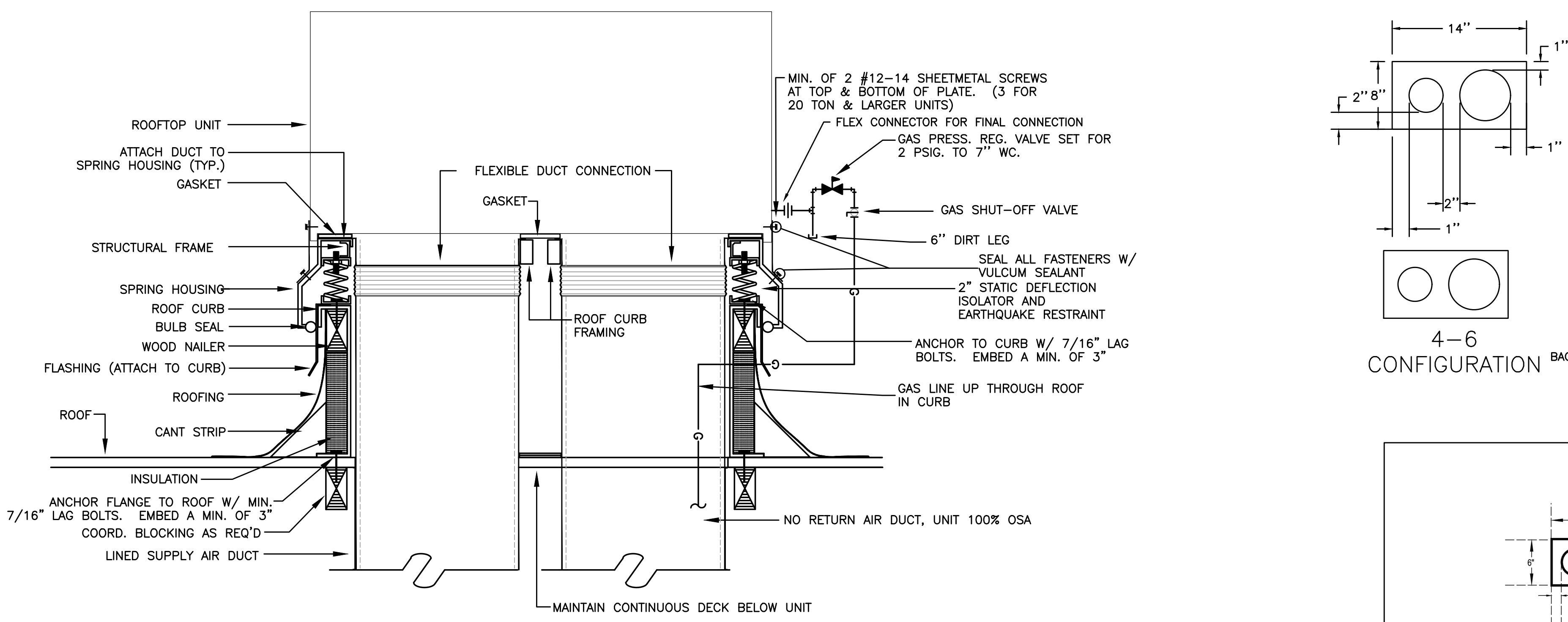
- Heat Recovery Venting (HRV)
- Intake
- Bathroom Venting
- Range Venting

PART NUMBER/SIZING

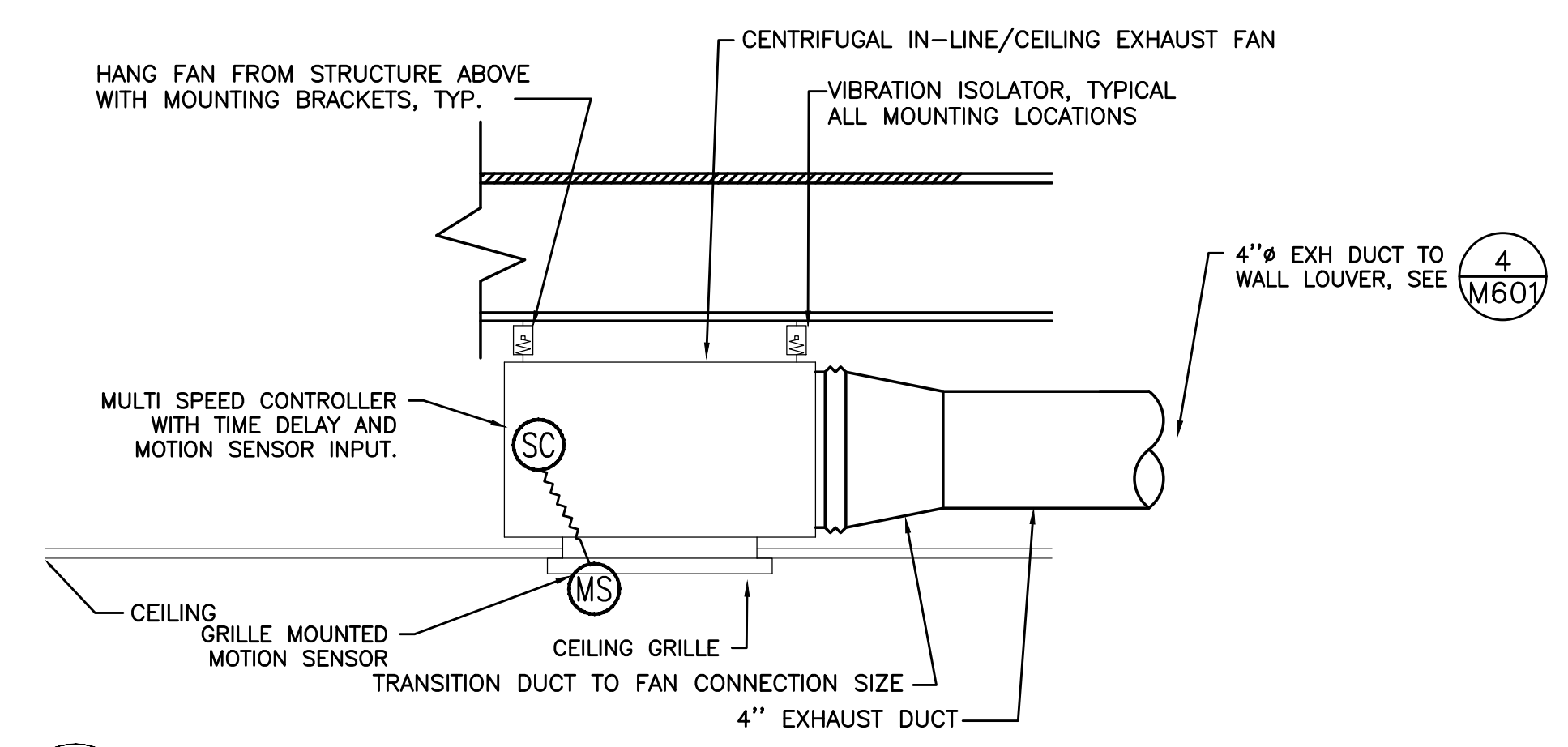
Part #	Size	Free Area	Description	Pkg
WCL7	7" Dia.	38.5 sq. in	Fits 7" diameter duct	4/box
WCL8	8" Dia.	50.3 sq. in	Fits 8" diameter duct	4/box

CONTACT US FOR MORE INFORMATION:
1.424.881.7875 | info@primexvents.com
1118

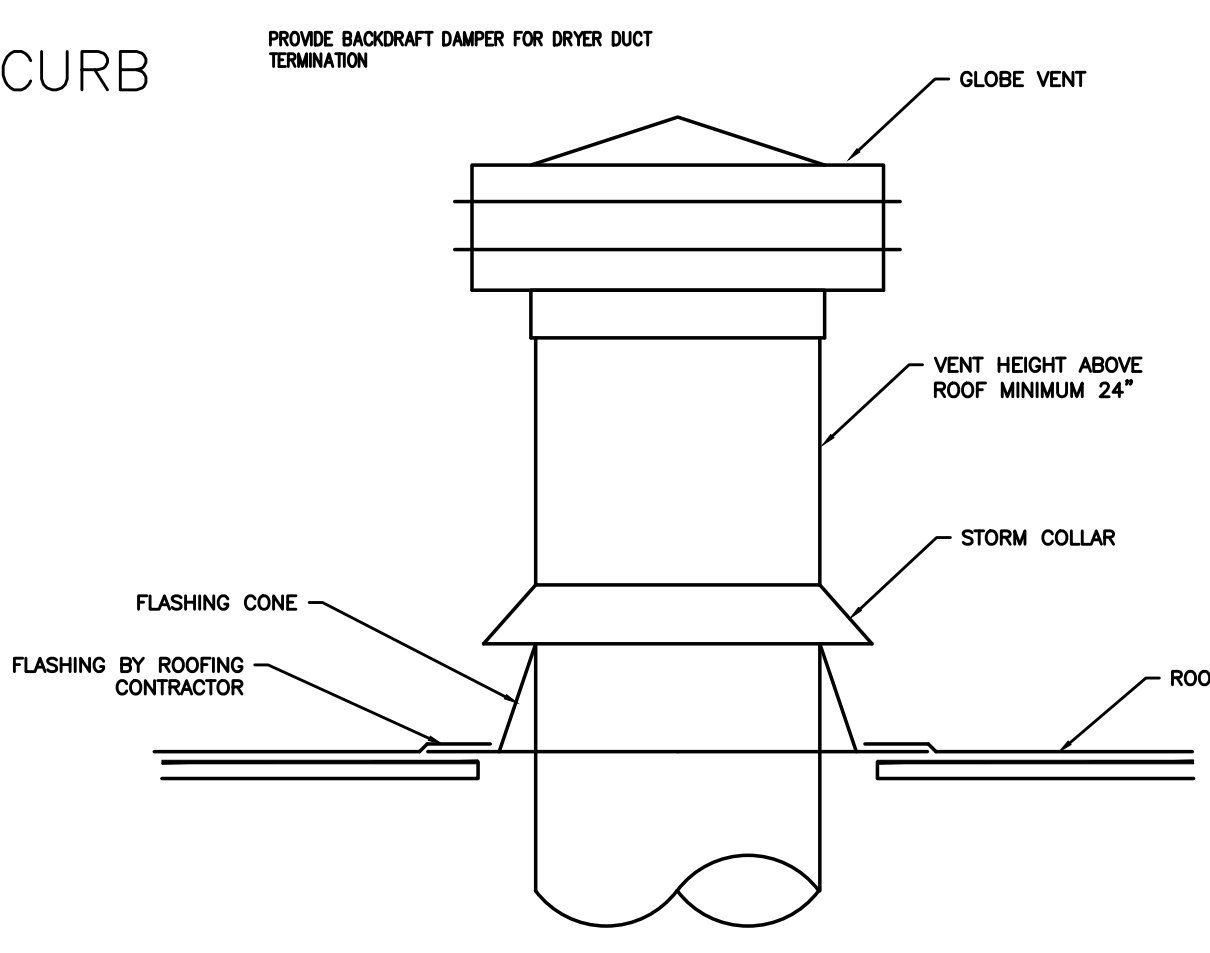
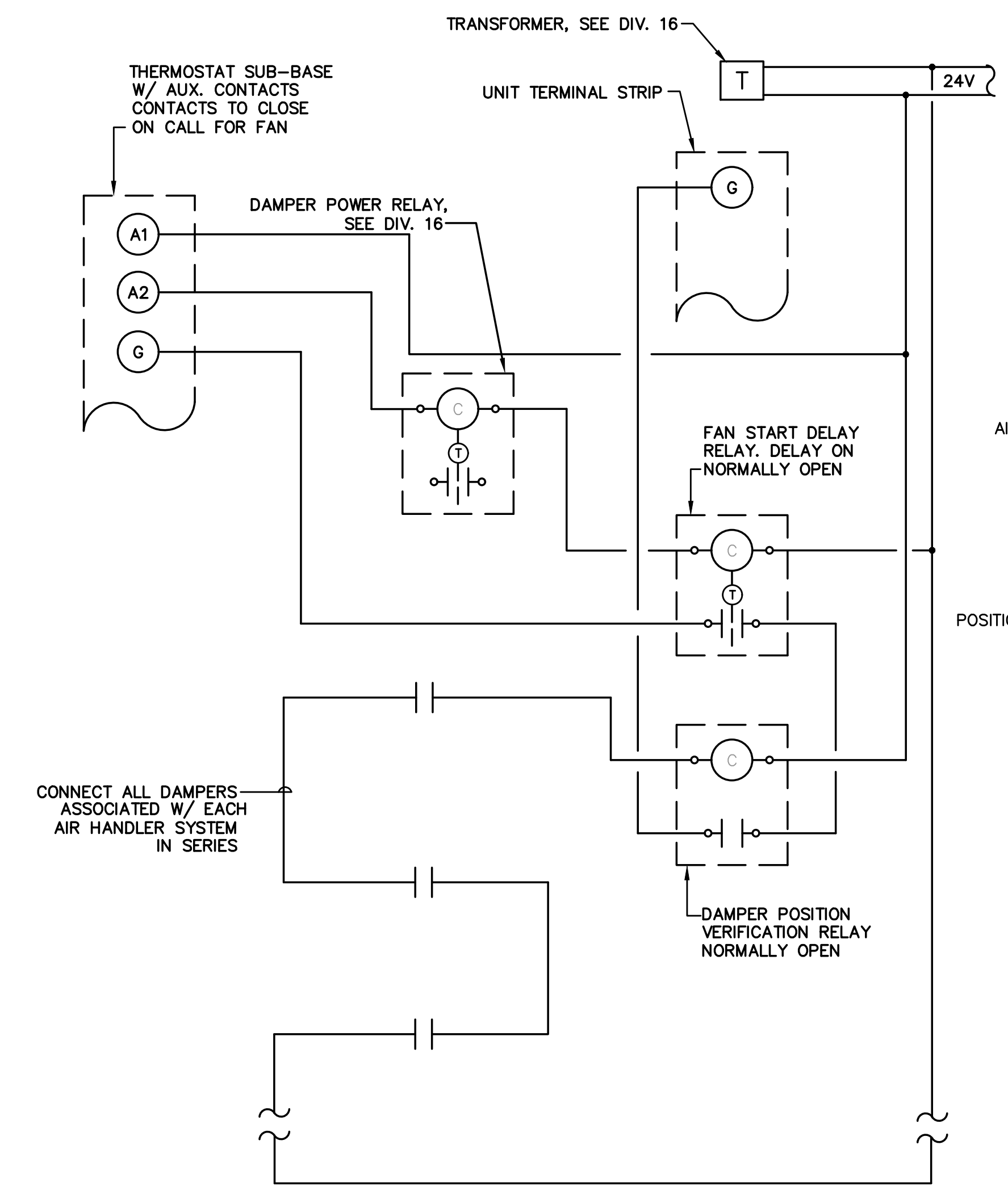
primex
primexvents.com



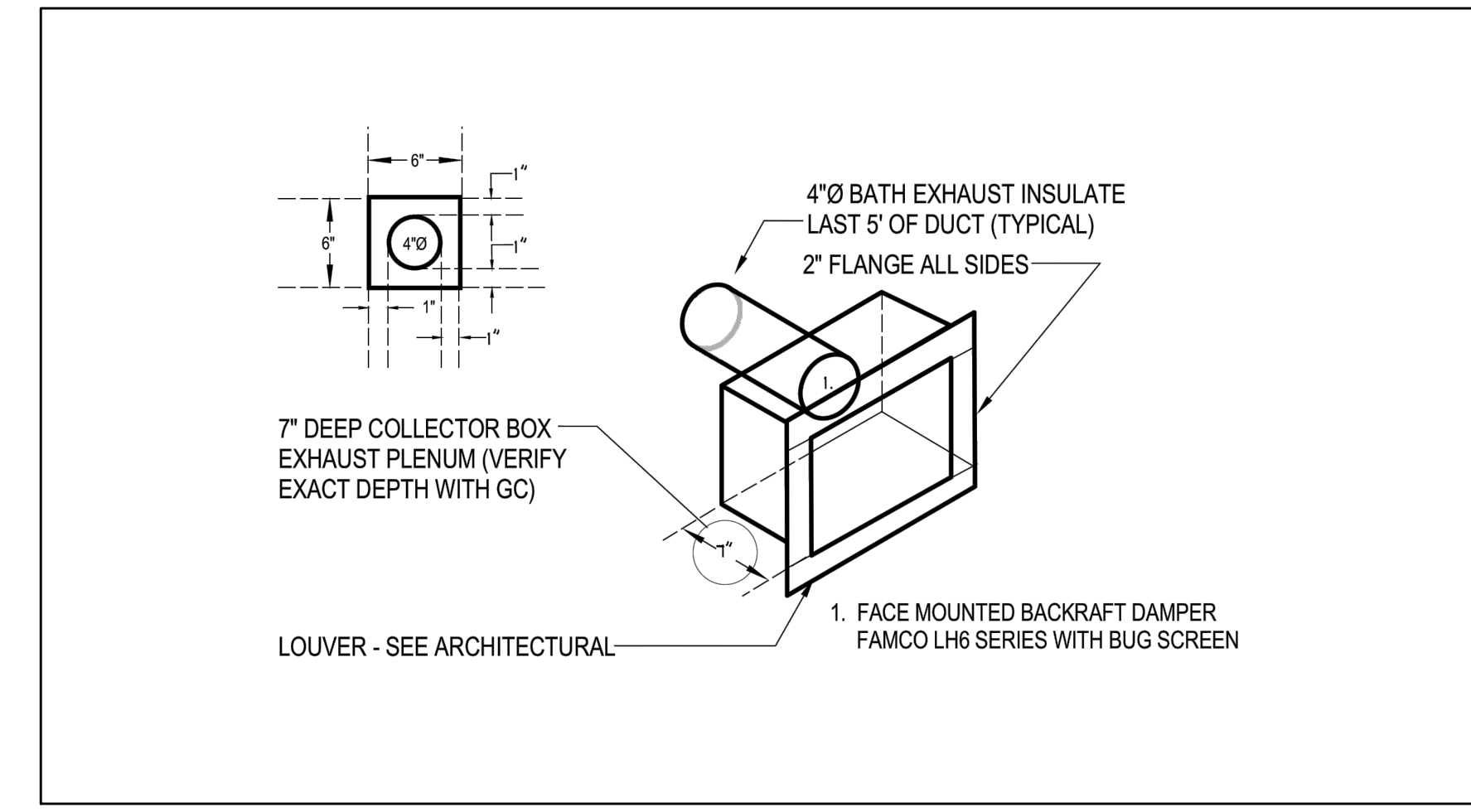
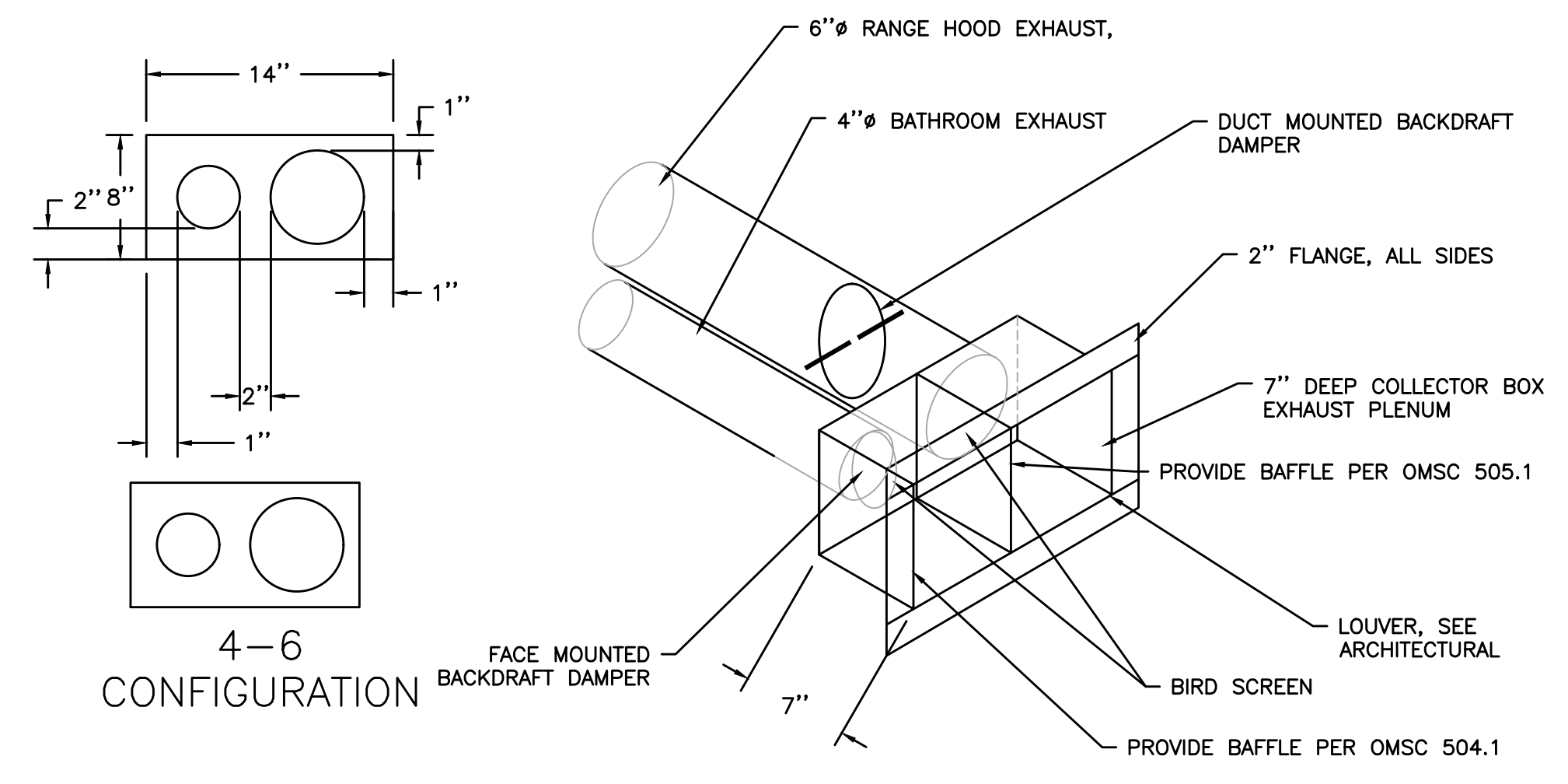
1 ROOF TOP UNIT W/ VIBRATION ISOLATION CURB
M601 SCALE: DETAIL



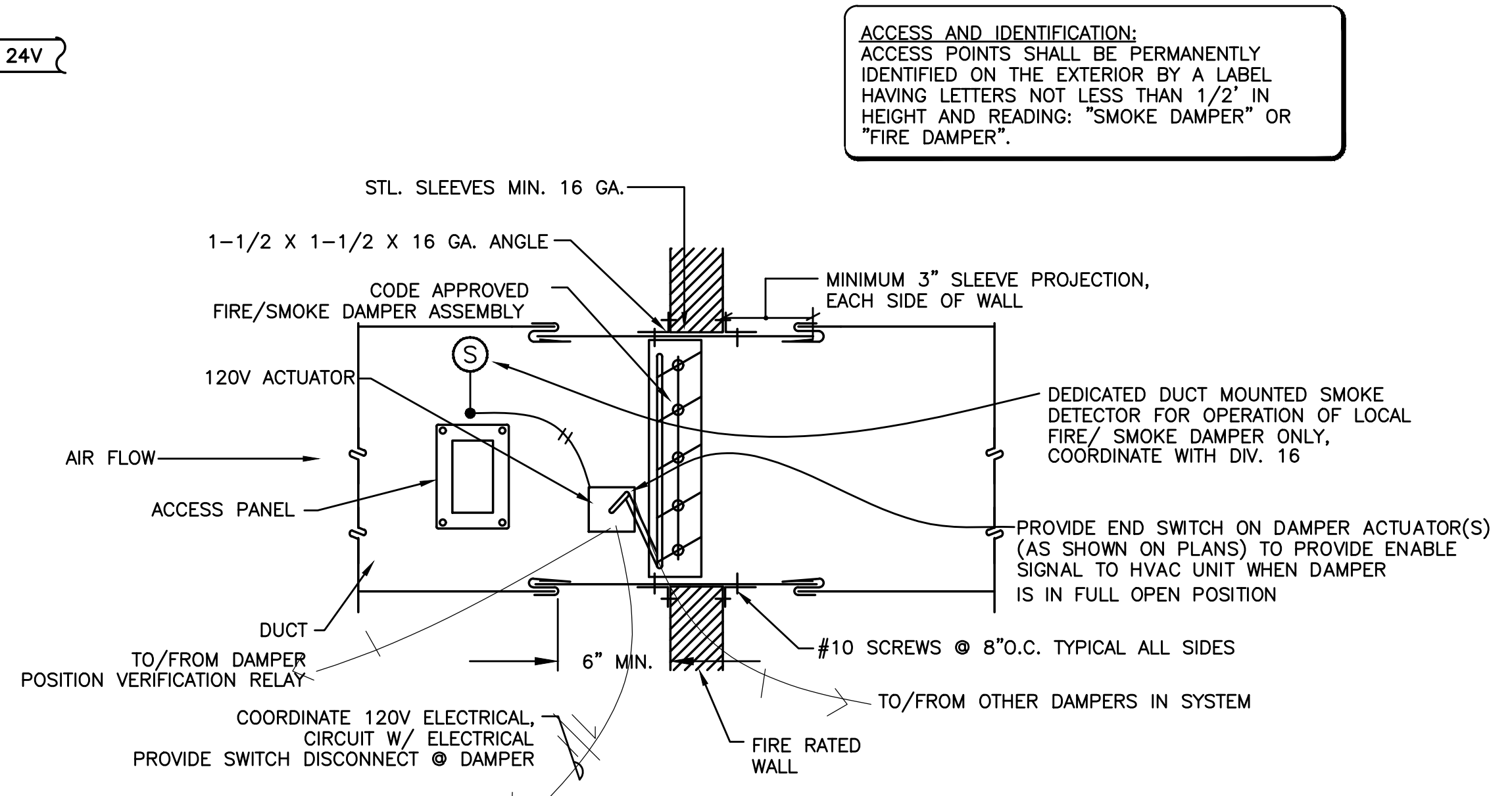
2 RESTROOM EXHAUST FAN
M601 SCALE: DETAIL



3 GLOBE STYLE ROOF VENT
M601 NOT TO SCALE



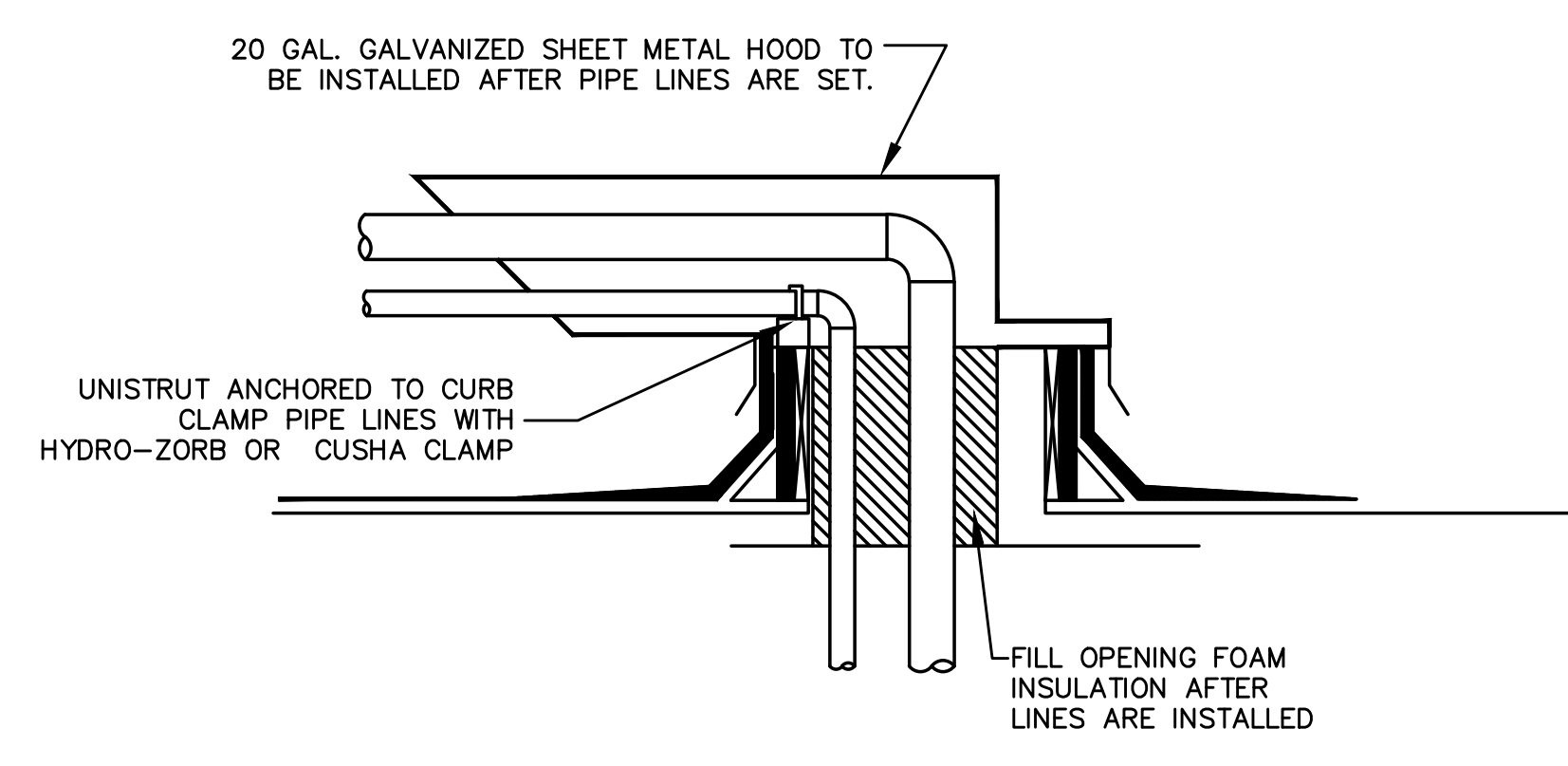
4 DWELLING UNIT EXHAUST TERMINATIONS
M601 SCALE: DETAIL



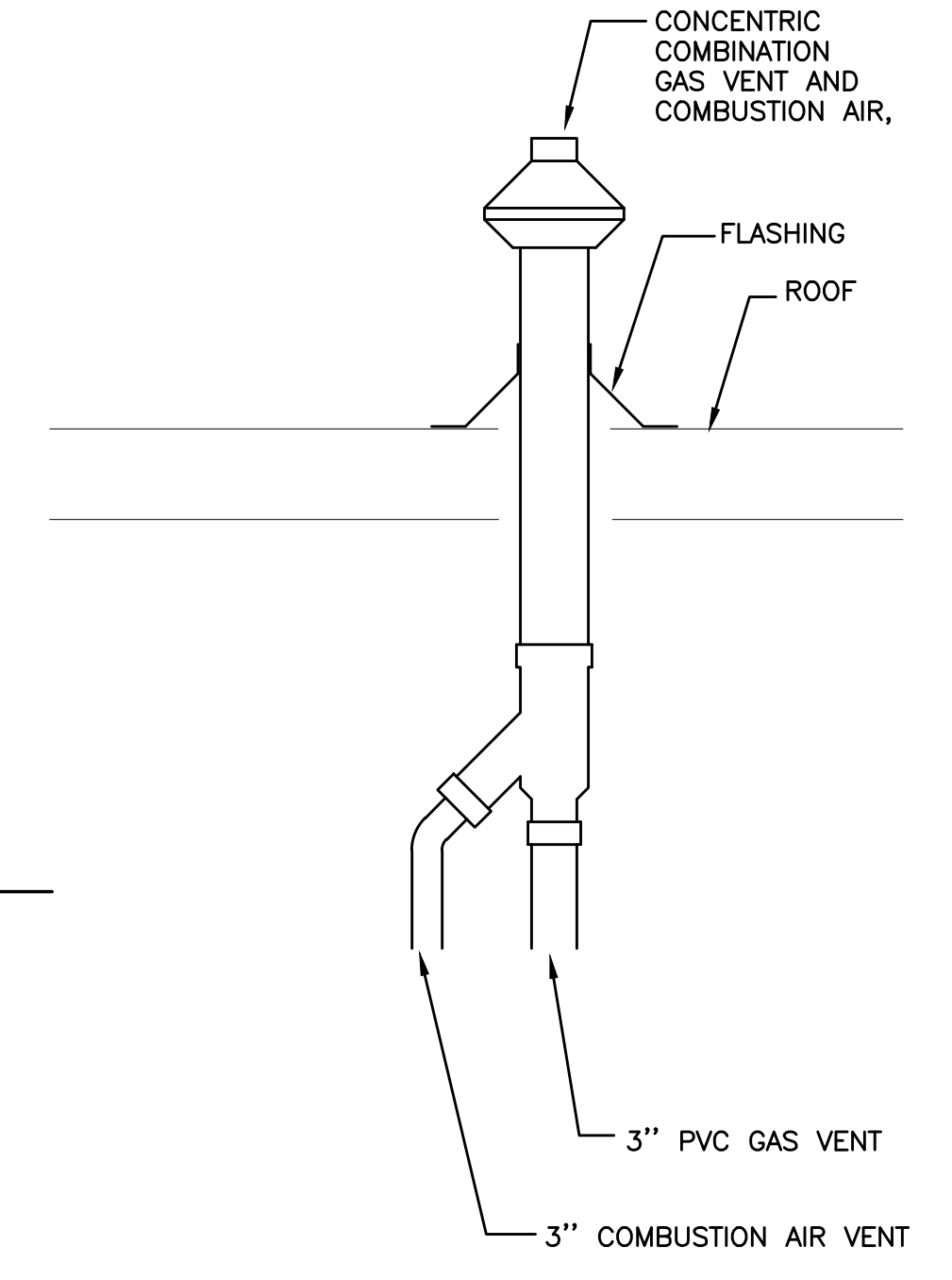
5 FIRE/SMOKE DAMPER W/ SMOKE DETECTOR
M601 NOT TO SCALE

NOTE:
PROVIDE ALL REQUIRED CONTROL WIRING TO ACCOMPLISH:
FIRE/SMOKE DAMPER - FIRE/SMOKE DAMPER TO CLOSE UPON ACTIVATION OF LOCAL SMOKE DETECTOR
EXHAUST DUCTS/FANS - FIRE/SMOKE DAMPER TO CLOSE UPON SHUTDOWN OF ASSOCIATED EXHAUST FAN.
SUPPLY OR RETURN DUCTS/FANS - FIRE/SMOKE DAMPER TO CLOSE UPON SHUTDOWN OF ASSOCIATED AIR HANDLING UNIT.

GENERAL NOTES:
PROVIDE ACCESS IN CEILING OR WALL FOR DAMPER AND SMOKE DETECTOR
SEE ELECTRICAL DRAWINGS FOR WIRING INSTALLATION



6 REFRIGERANT ROOF PENETRATIONS
M601 DETAIL



7 CONCENTRIC GAS VENT
M601 DETAIL

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PROJECT NUMBER:
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AT CROSS KEYS**

66 NW CEDAR ST
MADRAS, OR 97741

SHEET TITLE:
**MECHANICAL
DETAILS**

KEY PLAN:

PROJECT NORTH TRUE NORTH
DRAWN BY: Author

System No. W-L-7016
September 07, 2004
F Rating - 2 Hr
T Rating - 1 Hr

SECTION A-A

- Wall Assembly** - The 2 hr 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 Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing shall consist of either wood or steel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be min 3-1/2 in. wide and spaced max 24 in. OC.
 - Gypsum Board*** - Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening is 5 in.
- Steel Vent Duct** - Nom 4 in. diam (or smaller) No. 28 gauge (or heavier) galv steel duct to be installed either concentrically or eccentrically within the firestop system. An annular space of min 0 in. (point contact) to max 1 in. is required within the firestop system. Duct to be rigidly supported on both sides of wall assembly.
- Firestop System** - The details of the firestop system shall be as follows:
 - Packing Material (Optional)** - Polyethylene basket rock, mineral wool batt insulation or fiberglass batt insulation friction-fit into annular space and recessed from both surfaces of wall to accommodate the required thickness of fill material (Item 3B).
 - Fill, Void or Cavity Material*** - Caulk or Sealant - Min 1/2 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At the point contact location between duct and wallboard, a min 1/2 in. diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.
3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant

*Bearing the UL Classification Marking

This material was extracted and drawn by 3M Fire Protection Products from the 2007 edition of the UL Fire Resistance Directory. © UL Inc.
3M Fire Protection Products www.3m.com/firestop W-L-7016 • 1 of 1 Product Support Line: 1-800-328-1687 (Choose option 4 for FAX OR EMAIL)

Misc. Mechanical
7000 Series
Gypsum
W-L
Through Penetrations

System No. W-L-7018

ANSI/UL 1479 (ASTM E814)	CANULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Rating - 1 1/2 Hr	FT Rating - 1-1/2 Hr
	FH Rating - 2 Hr
	FTH Rating - 1-1/2 Hr

SECTION A-A

- Wall Assembly** - The 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
 - Gypsum Board*** - Two layers of nom 5/8 in. (16 mm) thick gypsum wallboard as specified in the individual Wall and Partition Design No. Max diam of opening is 9 in. (229 mm).
- Metallic Sleeve** - Cylindrical sleeve fabricated from min 0.016 in. (0.40 mm) thick (No. 28 gauge) galv steel sheet steel and having a min 2 in. (51 mm) lap along the longitudinal seam. Length of sleeve to be 1/8 in. (3 mm) less than thickness of wall. Sleeve to be installed by coiling the sheet metal to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular cutouts in the gypsum wallboard layers.

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Hilti Firestop Systems Page: 1 of 2

System No. W-L-7018

- Steel Duct** - Nom 6 in. (152 mm) diam (or smaller) No. 28 gauge (or heavier) galv steel duct to be installed concentrically within the firestop system. Duct to be rigidly supported on both sides of the wall assembly.
- Pipe Covering** - Nom 1 in. (25 mm) thick hollow cylindrical heavy density (3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-supplied self-sealing lap tape. Transverse joints secured with metal fasteners or with built tape supplied with the product. The annular space between the insulated pipe and the steel sleeve shall be min 0 in. (point contact) to max 1 in. (25 mm).
- See Pipe Equipment Covering - Materials** - (BRGU) Category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
- Fill, Void or Cavity Material*** - Sealant - Min 1-1/4 in. (32 mm) depth of sealant applied within the annulus, flush with each surface of the wall assembly. At the point contact location between insulated pipe and wall, a min 1/2 in. (13 mm) diam bead of sealant shall be applied on both surfaces of wall, lapping 1/4 in. (6 mm) beyond the periphery of the opening.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Hilti Firestop Systems Page: 2 of 2



1 FIRE PENETRATION DETAIL - 4" DUCTS
M602 DETAIL

2 FIRE PENETRATION DETAIL - 5" or 6" DUCTS
M602 DETAIL

UNIT SLEEVE TO BE CAULKED ALL AROUND

MINIMUM 12" FROM CEILING

SUPPLY AIR

LOUVERED DISCHARGE GRILLE

RETURN AIR

AIR FILTER

FINISHED FLOOR

MIN 3-1/4" AFF

ELECTRICAL RECEPTACLE FURNISHED BY ELECTRICAL CONTRACTOR

WALL SLEEVE PROVIDED WITH UNIT TO BE INSTALLED LEVEL IN ALL DIRECTIONS SLEEVE TO EXTEND 3/8" MINIMUM BEYOND EXTERIOR WALL SURFACE.

SEAL AROUND SLEEVE ON ALL FOUR SIDES

ALUMINUM ARCHITECTURAL GRILLE COORDINATE WITH ARCHITECT AND HP MANUFACTURER. GRILLE TO BE UPGRADE FROM STANDARD GRILLE PROVIDED WITH UNIT

DRAIN KIT FOR FIRST FLOOR UNITS (FURNISHED WITH UNIT)

PLUMBING CONTRACTOR TO CONTINUE 3/4" CONDENSATE DRAIN FROM DRAIN KIT TO TERMINATION (ALTERNATE CONDENSATE ROUTE)

NOTE: ANY DECORATIVE SCREENING LOCATED AT THE EXTERIOR OF BUILDING OBSTRUCTING THE FREE FLOW OF AIR AT THE PTHP LOUVER MUST A MINIMUM OF 68% FREE AREA AND MUST BE APPROVED BY PTHP MANUFACTURER TO MAINTAIN MANUFACTURER'S WARRANTY

3 PTHP AT EXTERIOR WALL
M602 NOT TO SCALE

VENT CAP STYLE WILL VARY WITH VENT DIAMETER. BELMONT OR ROUND TOP ACCEPTABLE

VENT HEIGHT ABOVE ROOF PER MANUF. RECOMMENDATIONS

U.L. AND SERVING UTILITY APPROVED. DOUBLE WALL GAS VENT

2'-0" MIN.

STORM COLLAR

FLASHING CONE

ROOF

UNISTRUT P-1546 OR APPROVED, ANCHOR TO STRUCTURE (TYP. OF 2)

MAINTAIN CODE CLEARANCES FROM COMBUSTIBLES

SUPPORT COLLAR WITH VENT BAND ATTACH TO STRUCTURE SUPPORT CABLE (TYP. OF 2)

VENT BAND

NOTE: MIN HEIGHT 24" ABOVE ANY STRUCTURE WITHIN 10'-0"

12" VENT, SEE POOL ROOM/POOL EQUIPMENT

4 TYPE "B" ROOF VENT
M602 SCALE: DETAIL

ISO PAD, TYPICAL AT 4 POINTS OF CONNECTION

1" X 3/8" BOLT THROUGH FOOT OF UNIT TO 1-5/8" UNISTRUT

1" X 3/8" BOLT FROM UNISTRUT TO ANGLE BRACKET

2" X 3/8" LAG BOLT

FILL HOLE WITH SILICONE CAULK

END VIEW

FRONT VIEW

SLEEPER BASE CONSTRUCTED OF P.T. 4X4 AND COVERED WITH 26 GA. GALVANIZED FLASHING SHEET WITH 2" LIP.

SEE ARCHITECTURAL DETAILS AND SPECIFICATIONS FOR ROOFING WORK

EXTERIOR REFRIGERANT PIPING TO ROOF HOOD, SEE

FLASHING

ROOFING

CANT STRIP

5 HEAT PUMP CURB
M602 DETAIL