

 $\langle A \rangle$  — 4"Ø DRYER EXHAUST TO EXTERIOR-ROOF TERMINATION VIA SOFFIT(S) PROVIDED. INSULATE DUCTWORK IN ATTIC. 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. CLEAN-OUT TO BE PROVIDED FOR ALL VERTICAL RISERS. SEE

(B) — PANASONIC WHISPERGREEN CEILING FAN WITH 4"Ø DUCT TO ROOF OR EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO FAN, FAN TO OPERATE AT LOW SPEED CONTINUOUS (30CFM) AND INCREASE TO 80CFM WHEN BUILT-IN MOTION SENSOR IS ACTIVATED. INSULATED FINAL 5' OF DUCTWORK, AND ALL DUCTWORK IN ATTIC. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. SEE 4 / EF / EF

 $\langle C \rangle$  — 6"ø HOOD DUCT TO ROOF/EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO HOOD. INSULATED FINAL 5' OF DUCTWORK AND ALL DUCTWORK IN ATTIC. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. HOOD FAN TO OPERATE

 $\bigcirc$  — EXTERIOR EXHAUST PLENUM — SEE  $\bigcirc$  MAINTAIN 36" CLEAR TO OPERABLE WINDOWS AND

(E) — LINT TRAPS ON ALL DRYERS, SEE  $(\frac{2}{M6.02b})$  FOR TYP DETAIL. 4"ø DRYER EXHAUST DUCT WITH

 $\langle \mathsf{F} 
angle$  — REFRIGERANT LINES FROM SPLIT HEAT PUMP CONDENSERS ON GROUND TO FAN COILS IN

 $\langle H \rangle$  — 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,

 $\langle 1 \rangle$  — 1.5KW WALL HEATER QMARK AWH4404F OR EQUAL. EQUIPMENT BY ELECTRICAL CONTRACTOR.

 $33,066 \text{ sq ft } \times 0.75 \text{ cfm/sq ft} = 24,099 \text{ CFM}$ 

SEQUENCE OF OPERATIONS CO & NO2 SENSORS:

PROVIDE A COMBINATION ELECTROCHEMICAL CARBON MONOXIDE & NITROGEN DIOXIDE SENSOR (SYSTEM) TO OPERATE GEF-2 (SEE TAG ON SENSOR) WHENEVER SPACE CO & NO2 LEVELS RISE ABOVE

SYSTEM TO BE SET TO FAIL WITH THE FAN IN THE "ON" SETTING. SET SENSORS AT 60"AFF. PROVIDE 6 SENSOR(S) AS SHOWN ON THE PLAN, AND WIRE TO A CENTRAL CONTROLLER TO OPERATE GEF-2 WHENEVER ANY SENSOR(S) CALLS FOR

SENSORS TO BE RATED FOR MIN 50' RADIUS

 RISING TRIP POINT — ENGAGE SECOND FAN(S) WHEN CO LEVELS RISE ABOVE 35 PPM AND NO2 LEVELS RISE ABOVE 2.0 PPM.

FALLING TRIP POINT - DISENGAGE SECOND FANS(S) WHEN CO LEVELS DROP TO 15 PPM AND NO2 LEVELS DROP TO 1.0 PPM. PROVIDE WITH AUDIBLE ALARM WHEN CO LEVELS EXPIRES: 31DEC21

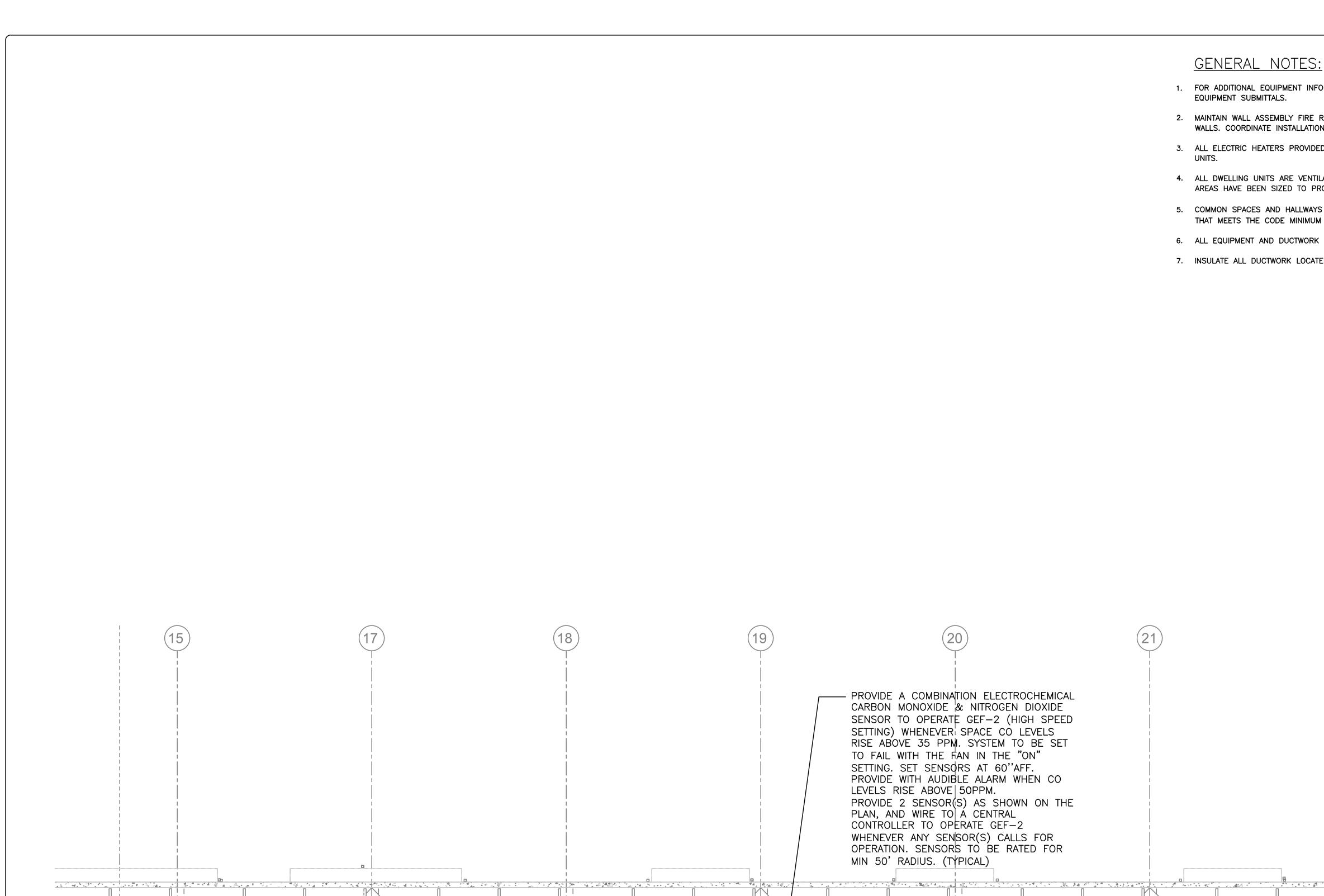
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Proj No:	10081	$\bigcirc$	3.28.2022	PLAN REVIEW
Drawn By:	MGA	$\bigcirc$	4.18.2022	PLAN REVIEW #2
Chkd By:	MRD	4	6.7.2022	PLAN REVIEW #4
DSGN By:	MRD	\$	6.24.2022	PLAN REVIEW #5
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EXPOSED CONC PT

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- 1. FOR ADDITIONAL EQUIPMENT INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS &
- 2. MAINTAIN WALL ASSEMBLY FIRE RATING FOR INSTALLATION OF WALL HEATERS IN FIRE RATED WALLS. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS.
- 3. ALL ELECTRIC HEATERS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, TYPICAL ALL
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- 6. ALL EQUIPMENT AND DUCTWORK IS LOCATED BELOW RATED ASSEMBLY.
- 7. INSULATE ALL DUCTWORK LOCATED IN ATTIC.

## **KEY NOTES:**

 $\langle A \rangle$  — 4"Ø DRYER EXHAUST TO EXTERIOR-ROOF TERMINATION VIA SOFFIT(S) PROVIDED. INSULATE DUCTWORK IN ATTIC. 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. CLEAN-OUT TO BE PROVIDED FOR ALL VERTICAL RISERS. SEE

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 $\langle \text{C} \rangle$  — 6"ø hood duct to roof/exterior wall termination via soffit(s) provided. Back DRAFT DAMPER INTEGRAL TO HOOD. INSULATED FINAL 5' OF DUCTWORK AND ALL DUCTWORK IN ATTIC. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. HOOD FAN TO OPERATE INTERMITTENTLY.

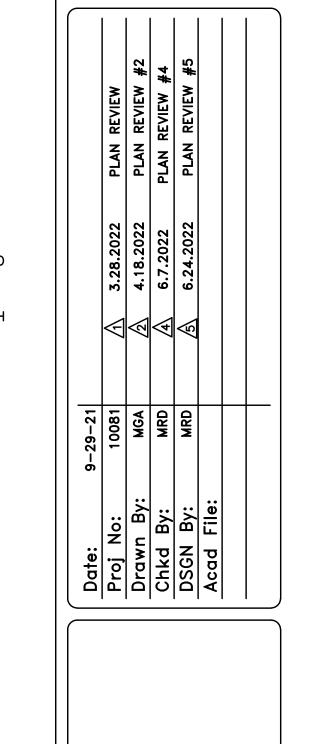
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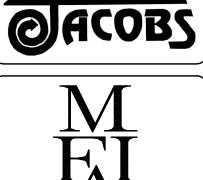
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9-30-21

MARK R. DENT

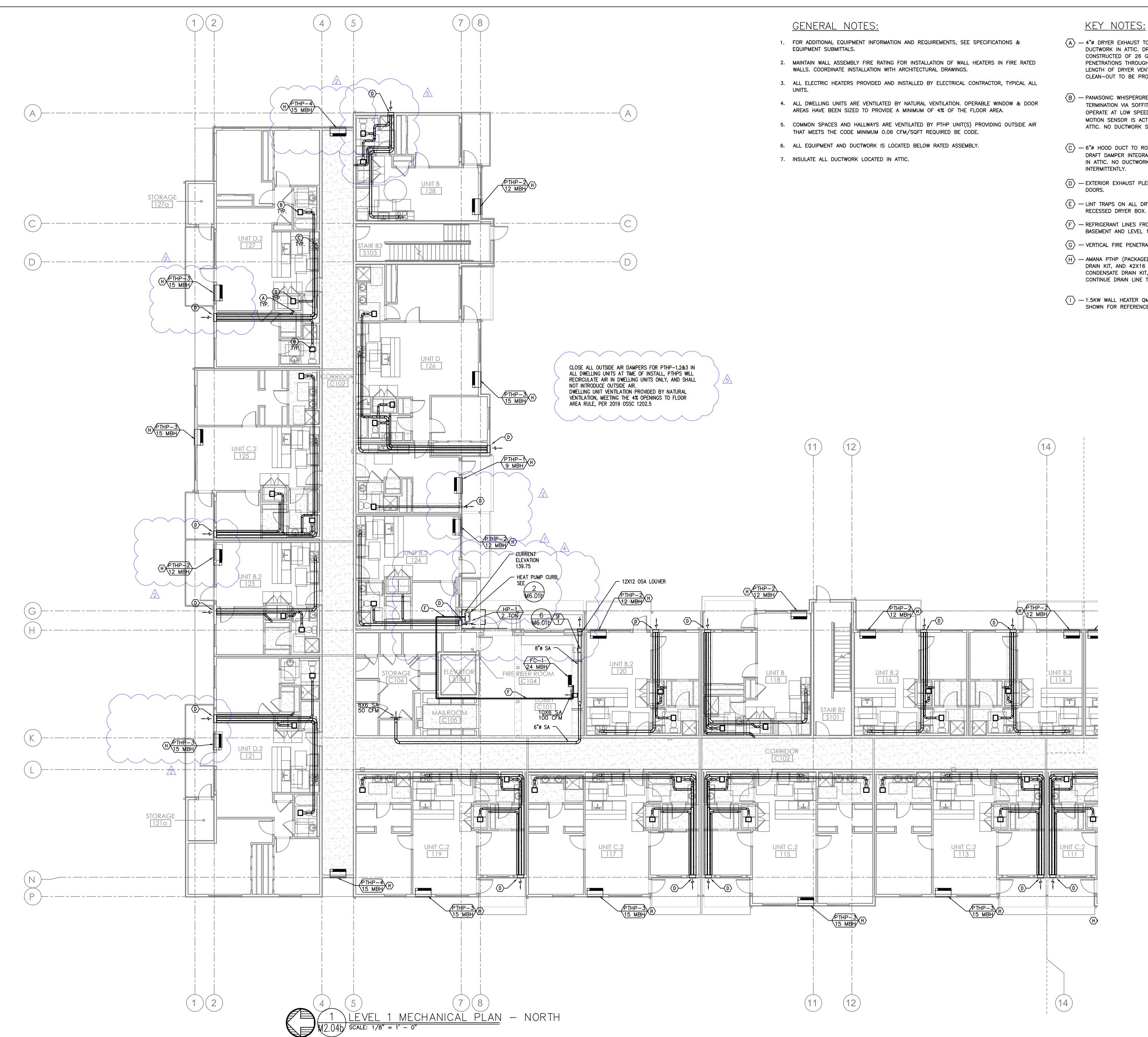
EXPIRES: 31DEC21





M2.01b

MESH SCREEN STYLE GARAGE DOOR WITH A MINIMUM OF 22.2 SQ FT OF FREE AREA SIZED FOR A VELOCITY 500 FEET PER MINUTE ASSUMING DOOR IS 165 SQ FT, DOOR MUST BE A MIN OF 14% FREE AREA





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 $\langle G \rangle$  — VERTICAL FIRE PENETRATION DETAIL, SEE  $\frac{5}{M6.02h}$ 

 $\overline{\langle H \rangle}$  — 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,

 $\langle I \rangle$  — 1.5kW wall heater qmark awh4404f or equal. Equipment by electrical contractor. SHOWN FOR REFERENCE ONLY.



	PLAN REVIEW	PLAN REVIEW #2	PLAN REVIEW #4	PLAN REVIEW #5			
	3.28.2022	4.18.2022	6.7.2022	6.24.2022			
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9-29-21	10081		M				
Date:	Proj No:	Drawn By:	Chkd By:	DSGN By:	Acad File:		





M2.04b

# **GENERAL NOTES:**

- 1. FOR ADDITIONAL EQUIPMENT INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS & EQUIPMENT SUBMITTALS.
- 2. MAINTAIN WALL ASSEMBLY FIRE RATING FOR INSTALLATION OF WALL HEATERS IN FIRE RATED WALLS. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS.
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M6.01k

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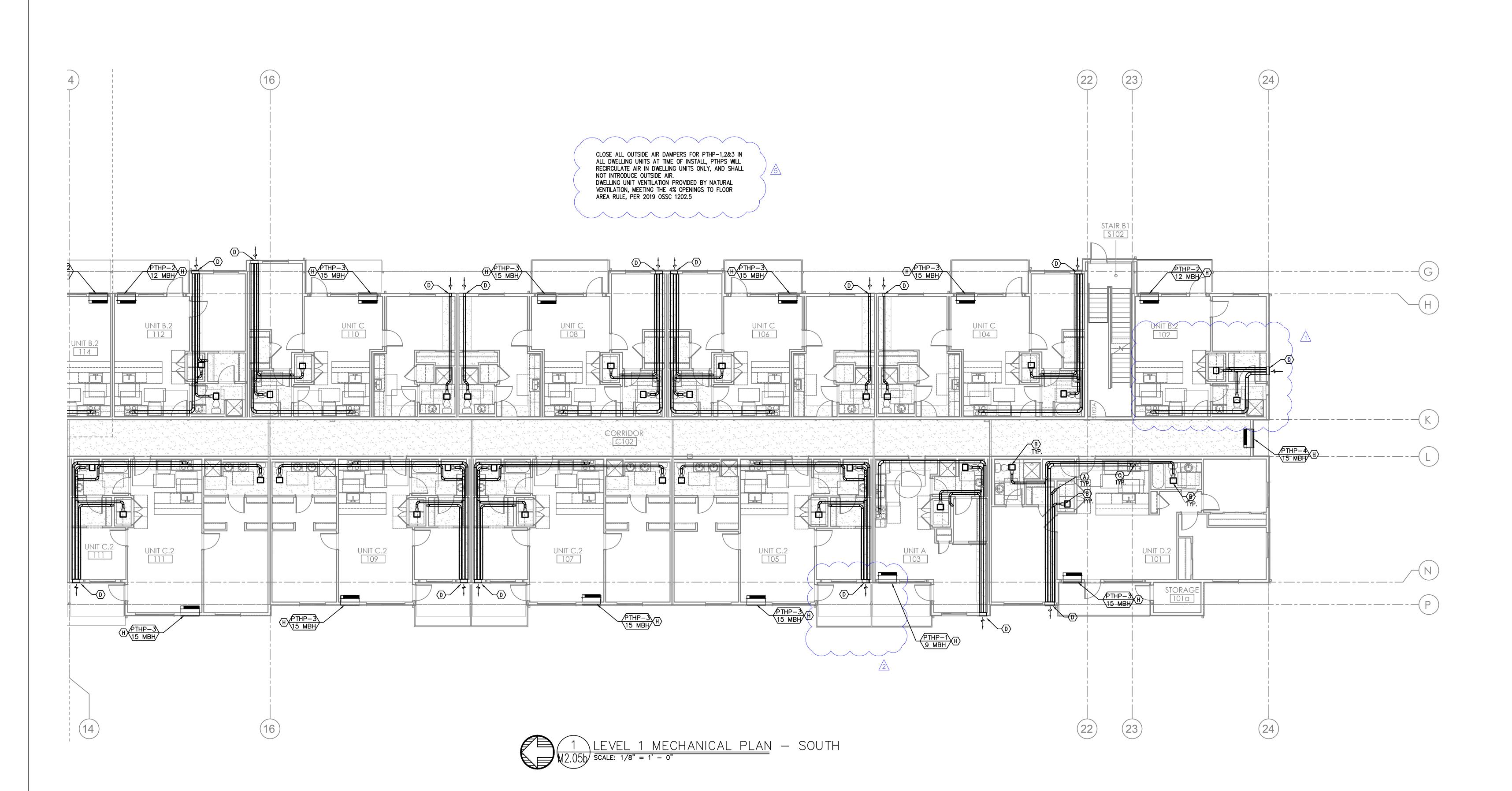
(E) — lint traps on all dryers, see (2) for typ detail. 4"ø dryer exhaust duct with recessed dryer box.

F — REFRIGERANT LINES FROM SPLIT HEAT PUMP CONDENSERS ON GROUND TO FAN COILS IN BASEMENT AND LEVEL 1.

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W6.01b

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	PLAN REVIEW	PLAN REVIEW #2	PLAN REVIEW #4	PLAN REVIEW #5			
	3.28.2022	4.18.2022	6.7.2022	6.24.2022			
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COMMONS ON 6645 SW N BUILL EVEL 1 MECHANIC

> PERMIT SET 11/22/21

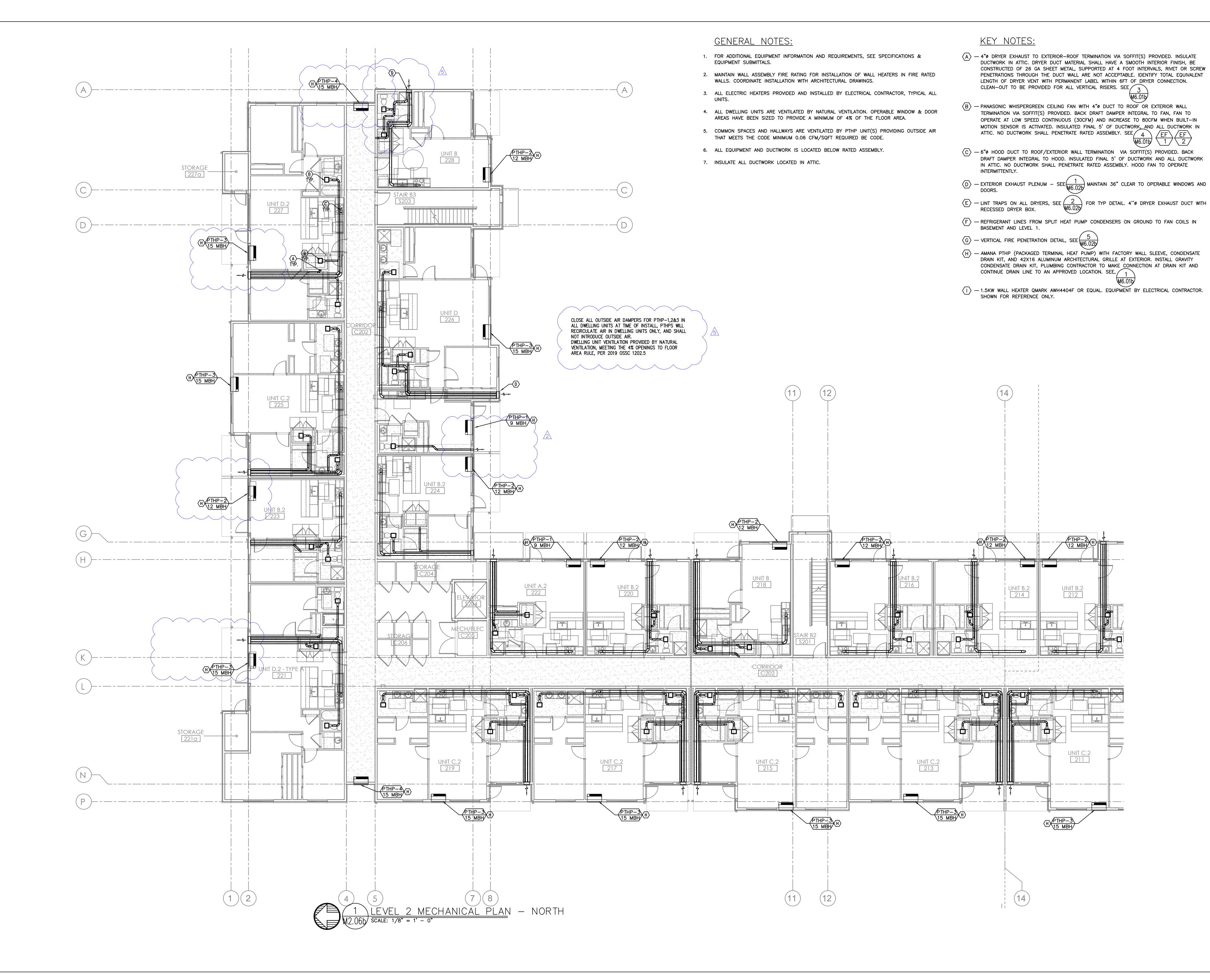




Consulting Engineers 2007 S.E. Ash St. Portland, OR 97214 PHN: (503) 234-0548 FAX: (503) 234-0677 WWW.MFIA-ENG.COM

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PLAN REVIEW	PLAN REVIEW #2	PLAN REVIEW #4	PLAN REVIEW #5			
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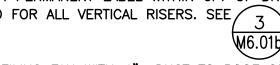
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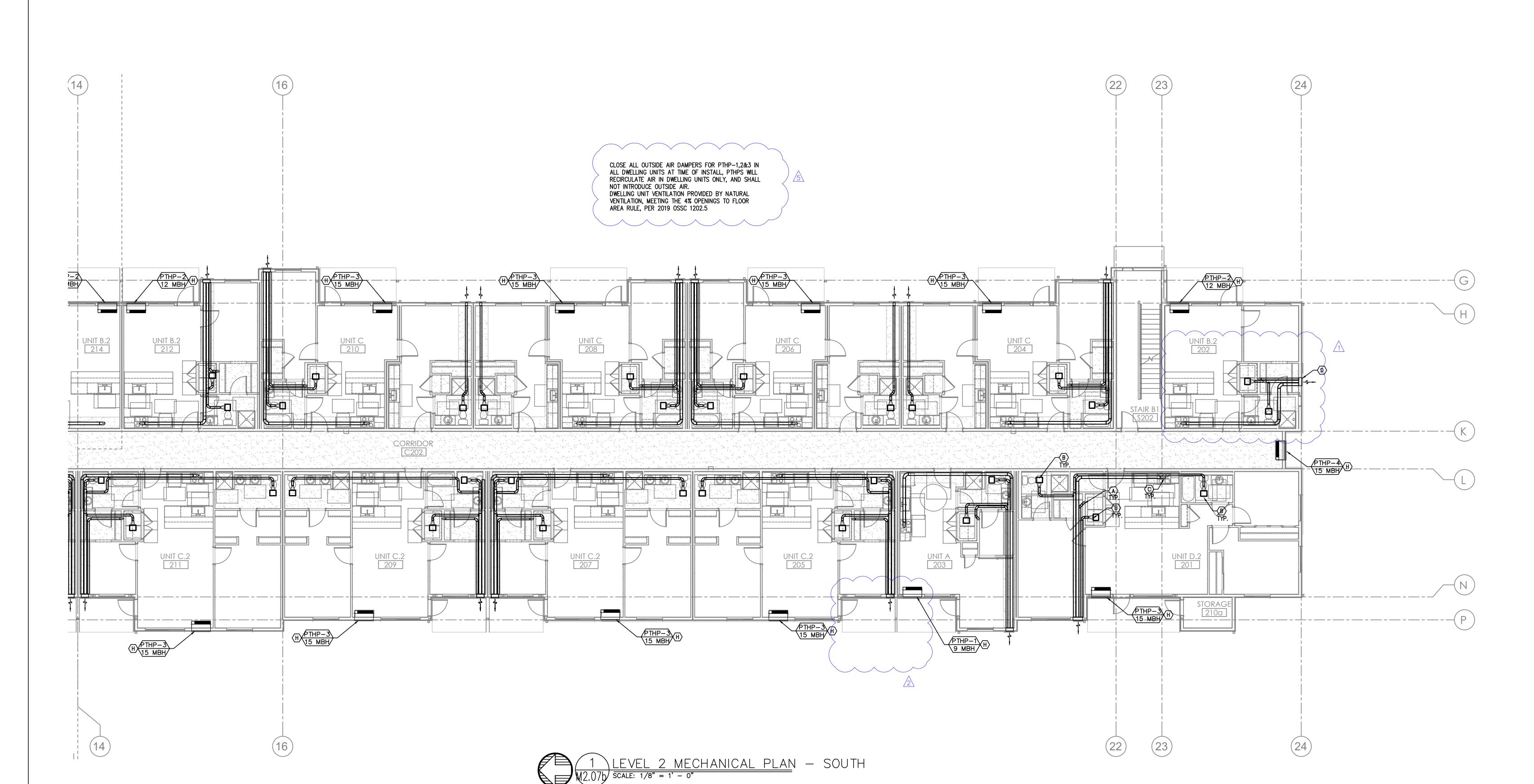
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 $\langle {\sf F} 
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 $\langle G \rangle$  — Vertical fire penetration detail, See  $\langle M6.02b \rangle$ 

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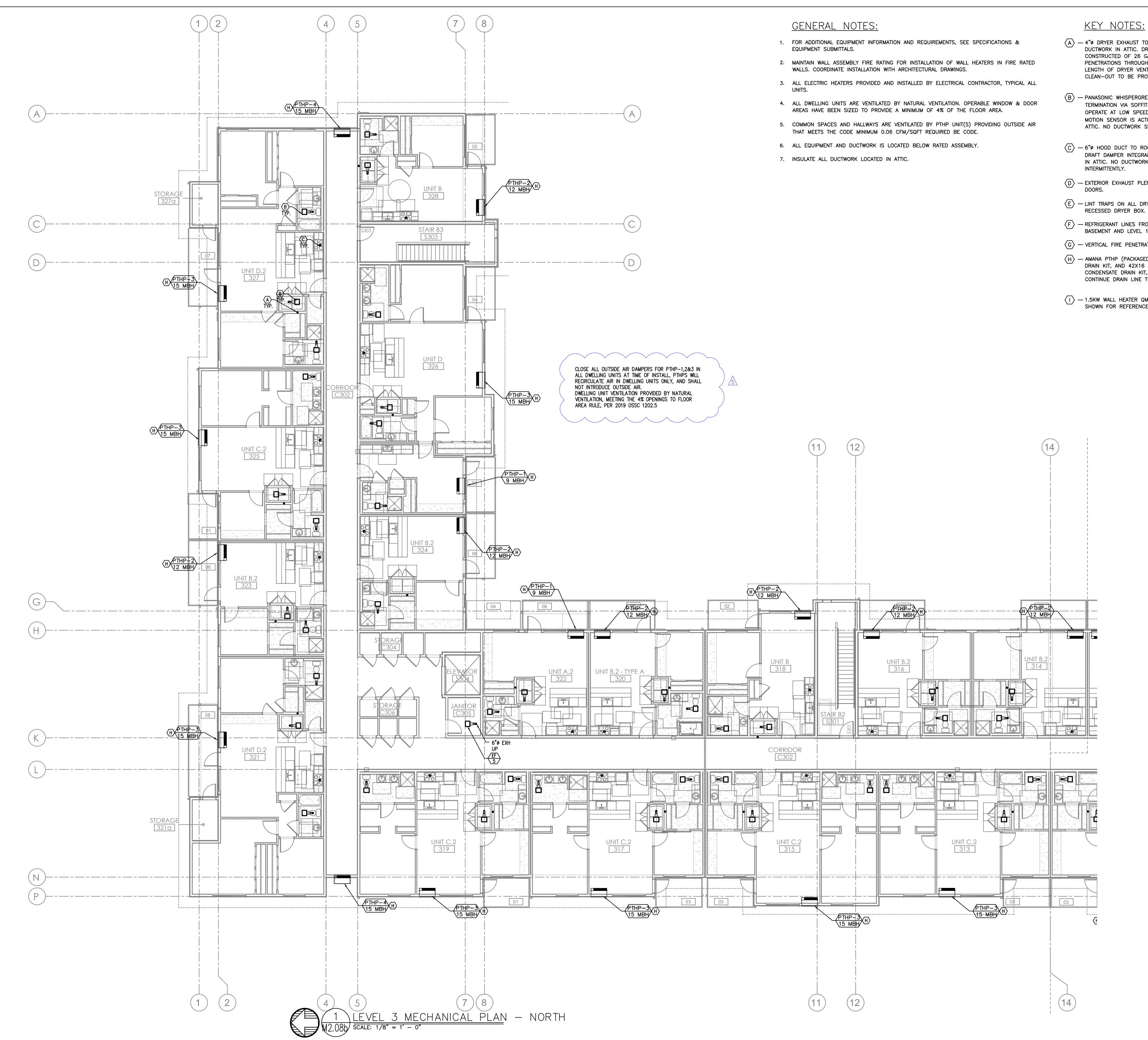
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Proj No:	10081	$\nabla$	3.28.2022	PLAN REVIEW
Drawn By:	MGA	abla	4.18.2022	PLAN REVIEW #2
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DSGN By:	MRD	₹	6.24.2022	PLAN REVIEW #5
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M2.07b



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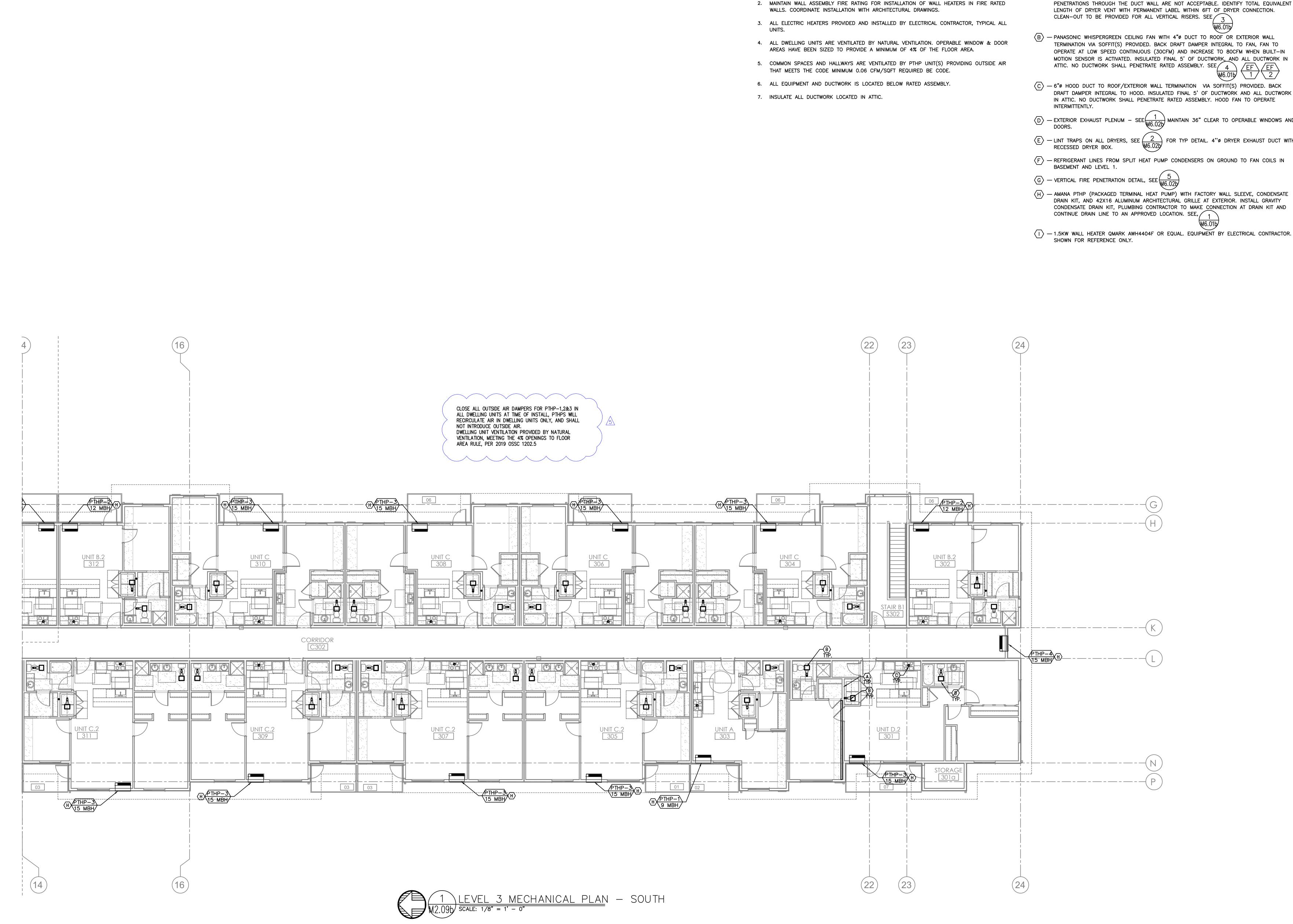


		PLAN REVIEW	PLAN REVIEW #2	PLAN REVIEW #4	PLAN REVIEW #5			
		3.28.2022 PL	4.18.2022 Pl	6.7.2022 PL/	6.24.2022 PI			
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M2.08b



## **KEY NOTES:**

**GENERAL NOTES:** 

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(E) — LINT TRAPS ON ALL DRYERS, SEE (2) FOR TYP DETAIL. 4"ø DRYER EXHAUST DUCT WITH

 $\overline{\mathsf{F}}$  — REFRIGERANT LINES FROM SPLIT HEAT PUMP CONDENSERS ON GROUND TO FAN COILS IN

(H) — 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, 1

EXPIRES: 31DEC21

9-30-21

riangle 1 3.28.2022	4.18.2022	6.7.2022	6.24.2022			
10081	MGA	MRD	MRD			
Proj No:	Drawn By:	Chkd By:	DSGN By:	Acad File:		

SW N BUILD

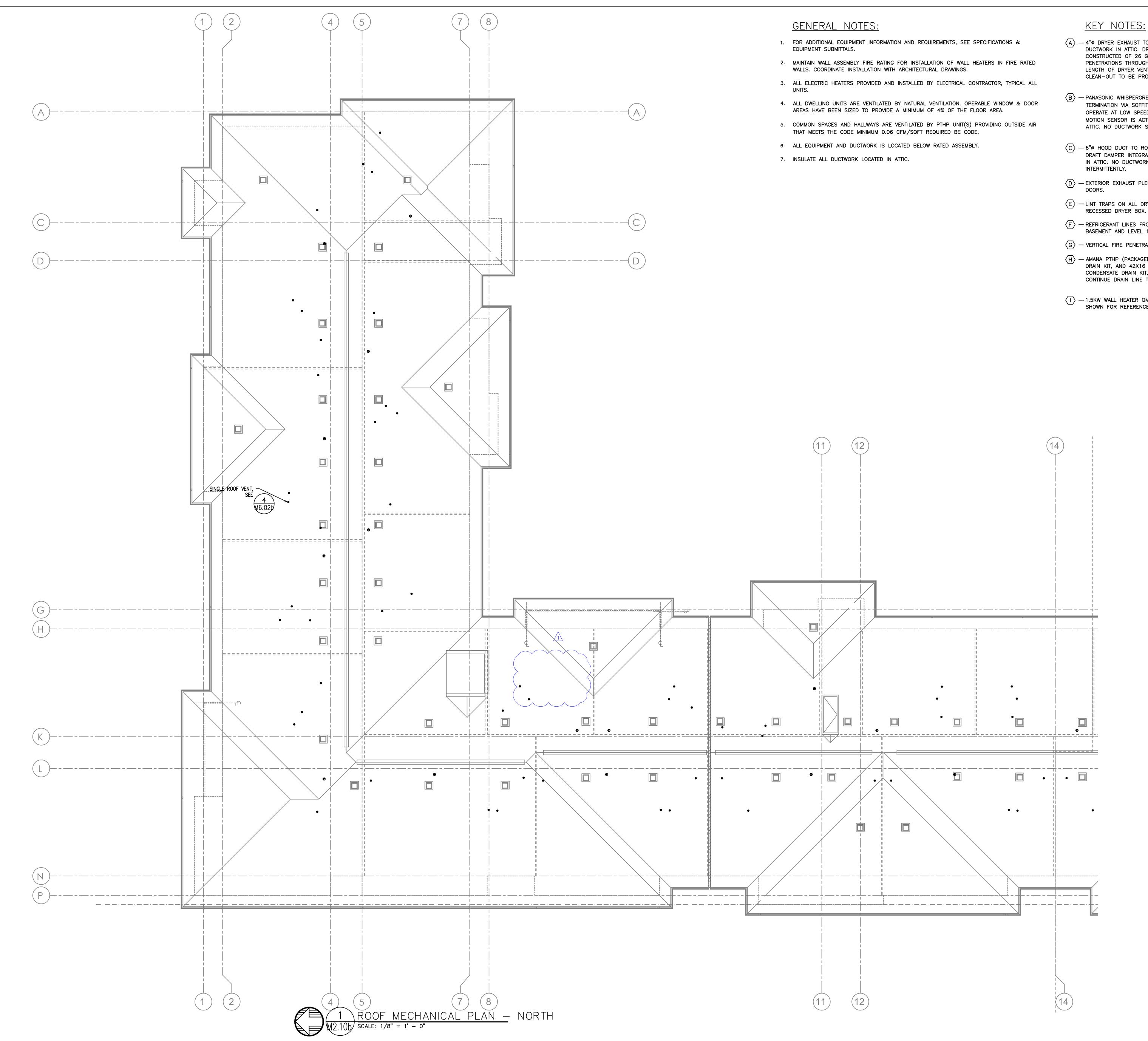
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PERMIT SET 11/22/21





M2.09b



 $\overline{\langle A \rangle}$  — 4"ø DRYER EXHAUST TO EXTERIOR-ROOF TERMINATION VIA SOFFIT(S) PROVIDED. INSULATE DUCTWORK IN ATTIC. 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. CLEAN-OUT TO BE PROVIDED FOR ALL VERTICAL RISERS. SEE

B - PANASONIC WHISPERGREEN CEILING FAN WITH 4"0 DUCT TO ROOF OR EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO FAN, FAN TO OPERATE AT LOW SPEED CONTINUOUS (30CFM) AND INCREASE TO 80CFM WHEN BUILT-IN MOTION SENSOR IS ACTIVATED. INSULATED FINAL 5' OF DUCTWORK, AND ALL DUCTWORK IN ATTIC. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. SEE 4 / EF / EF

 $\langle \text{C} \rangle$  — 6"ø hood duct to roof/exterior wall termination via soffit(s) provided. Back DRAFT DAMPER INTEGRAL TO HOOD. INSULATED FINAL 5' OF DUCTWORK AND ALL DUCTWORK IN ATTIC. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. HOOD FAN TO OPERATE

 $\bigcirc$  — EXTERIOR EXHAUST PLENUM — SEE $\left(\frac{1}{\text{W}6.02b}\right)$  MAINTAIN 36" CLEAR TO OPERABLE WINDOWS AND

(E) — LINT TRAPS ON ALL DRYERS, SEE (2) FOR TYP DETAIL. 4"ø DRYER EXHAUST DUCT WITH RECESSED DRYER BOX.

 $\stackrel{ ext{(F)}}{}$  — REFRIGERANT LINES FROM SPLIT HEAT PUMP CONDENSERS ON GROUND TO FAN COILS IN BASEMENT AND LEVEL 1.

 $\langle G \rangle$  — Vertical fire penetration detail, see  $\langle G \rangle$ 

(H) — 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,

 $\bigcirc$   $\bigcirc$  - 1.5KW WALL HEATER QMARK AWH4404F OR EQUAL. EQUIPMENT BY ELECTRICAL CONTRACTOR. SHOWN FOR REFERENCE ONLY.



		#2	4	#2		
	PLAN REVIEW	PLAN REVIEW #2	PLAN REVIEW #4	PLAN REVIEW #5		
	3.28.2022	4.18.2022	6.7.2022	6.24.2022		
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9-29-21	10081	MGA	MRD	MRD		
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4.18.2022	6.7.2022	6.24.2022			
$\bigcirc$	$\triangle$	8			
MGA	MRD	MRD			•
Drawn By:	Chkd By:	DSGN By:	Acad File:		



M2.10b

# GENERAL NOTES:

- 1. FOR ADDITIONAL EQUIPMENT INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS & EQUIPMENT SUBMITTALS.
- MAINTAIN WALL ASSEMBLY FIRE RATING FOR INSTALLATION OF WALL HEATERS IN FIRE RATED WALLS. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS.
- 3. ALL ELECTRIC HEATERS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, TYPICAL ALL UNITS.
- 4. ALL DWELLING UNITS ARE VENTILATED BY NATURAL VENTILATION. OPERABLE WINDOW & DOOR AREAS HAVE BEEN SIZED TO PROVIDE A MINIMUM OF 4% OF THE FLOOR AREA.
- 5. COMMON SPACES AND HALLWAYS ARE VENTILATED BY PTHP UNIT(S) PROVIDING OUTSIDE AIR THAT MEETS THE CODE MINIMUM 0.06 CFM/SQFT REQUIRED BE CODE.
- 6. ALL EQUIPMENT AND DUCTWORK IS LOCATED BELOW RATED ASSEMBLY.
- 7. INSULATE ALL DUCTWORK LOCATED IN ATTIC.

## KEY NOTES:

A — 4"Ø DRYER EXHAUST TO EXTERIOR—ROOF TERMINATION VIA SOFFIT(S) PROVIDED. INSULATE DUCTWORK IN ATTIC. 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. CLEAN—OUT TO BE PROVIDED FOR ALL VERTICAL RISERS. SEE

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B — PANASONIC WHISPERGREEN CEILING FAN WITH 4"Ø DUCT TO ROOF OR EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO FAN, FAN TO OPERATE AT LOW SPEED CONTINUOUS (30CFM) AND INCREASE TO 80CFM WHEN BUILT—IN MOTION SENSOR IS ACTIVATED. INSULATED FINAL 5' OF DUCTWORK, AND ALL DUCTWORK IN ATTIC. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. SEE 4 W6.01b

C — 6"Ø HOOD DUCT TO ROOF/EXTERIOR WALL TERMINATION VIA SOFFIT(S) PROVIDED. BACK DRAFT DAMPER INTEGRAL TO HOOD. INSULATED FINAL 5' OF DUCTWORK AND ALL DUCTWORK IN ATTIC. NO DUCTWORK SHALL PENETRATE RATED ASSEMBLY. HOOD FAN TO OPERATE INTERMITTENTLY.

 $\bigcirc$  — EXTERIOR EXHAUST PLENUM — SEE  $\bigcirc$  MAINTAIN 36" CLEAR TO OPERABLE WINDOWS AND DOORS.

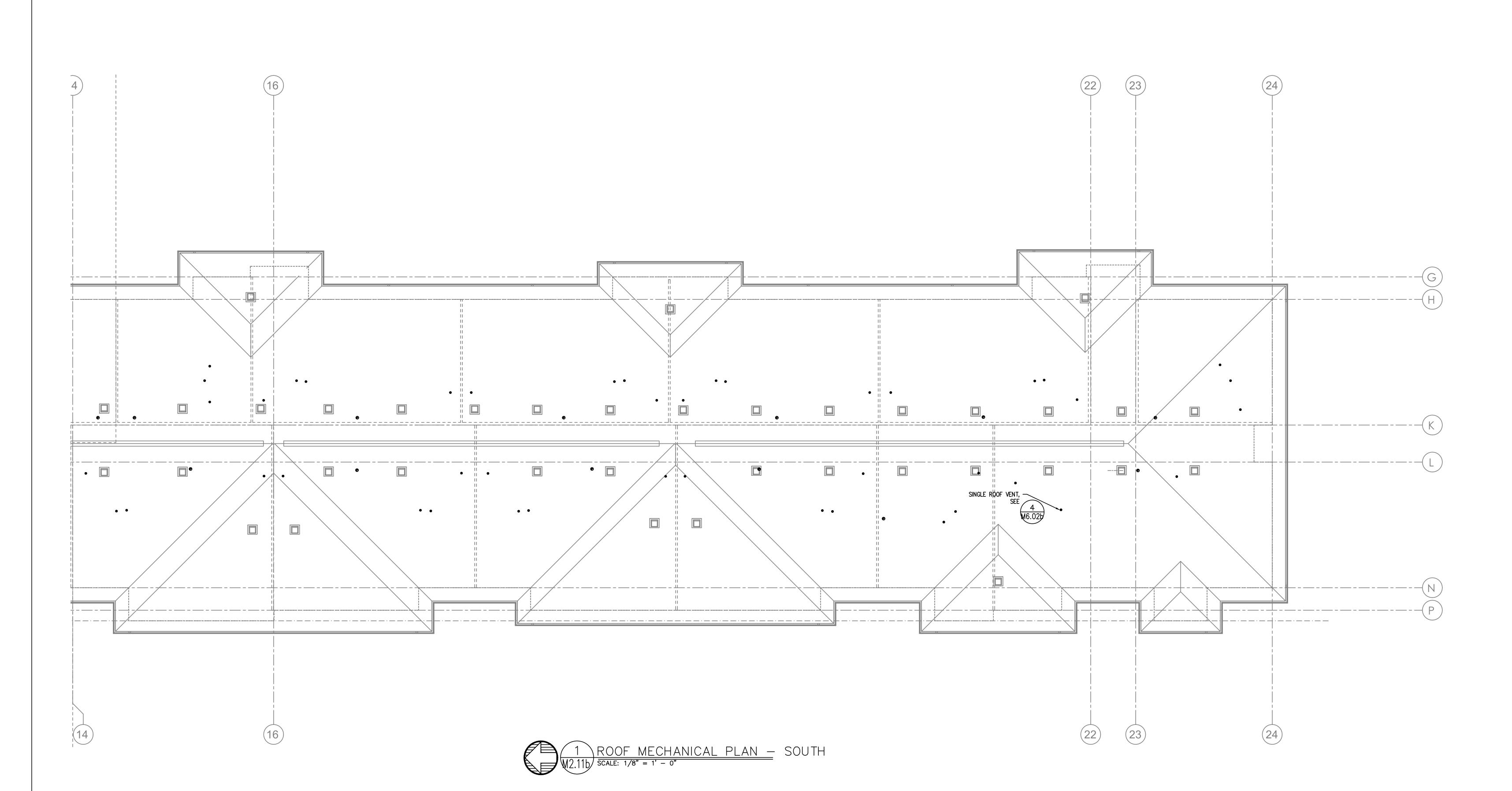
 $\stackrel{\textstyle \leftarrow}{\text{E}}$  — lint traps on all dryers, see  $\stackrel{\textstyle \leftarrow}{\text{M6.02b}}$  for typ detail. 4"ø dryer exhaust duct with recessed dryer box.

F — REFRIGERANT LINES FROM SPLIT HEAT PUMP CONDENSERS ON GROUND TO FAN COILS IN BASEMENT AND LEVEL 1.

H — 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,

W6.01b

 $\langle I \rangle$  — 1.5kw wall heater qmark awh4404f or equal. Equipment by electrical contractor. Shown for reference only.





Date:	9-29-21			
Proj No:	10081		3.28.2022	PLAN REVIEW
Drawn By:	MGA	4.1	4.18.2022	PLAN REVIEW #2
Chkd By:	MRD	6.7	6.7.2022	PLAN REVIEW #4
DSGN By:	MRD	<u> </u>	6.24.2022	PLAN REVIEW #5
Acad File:				

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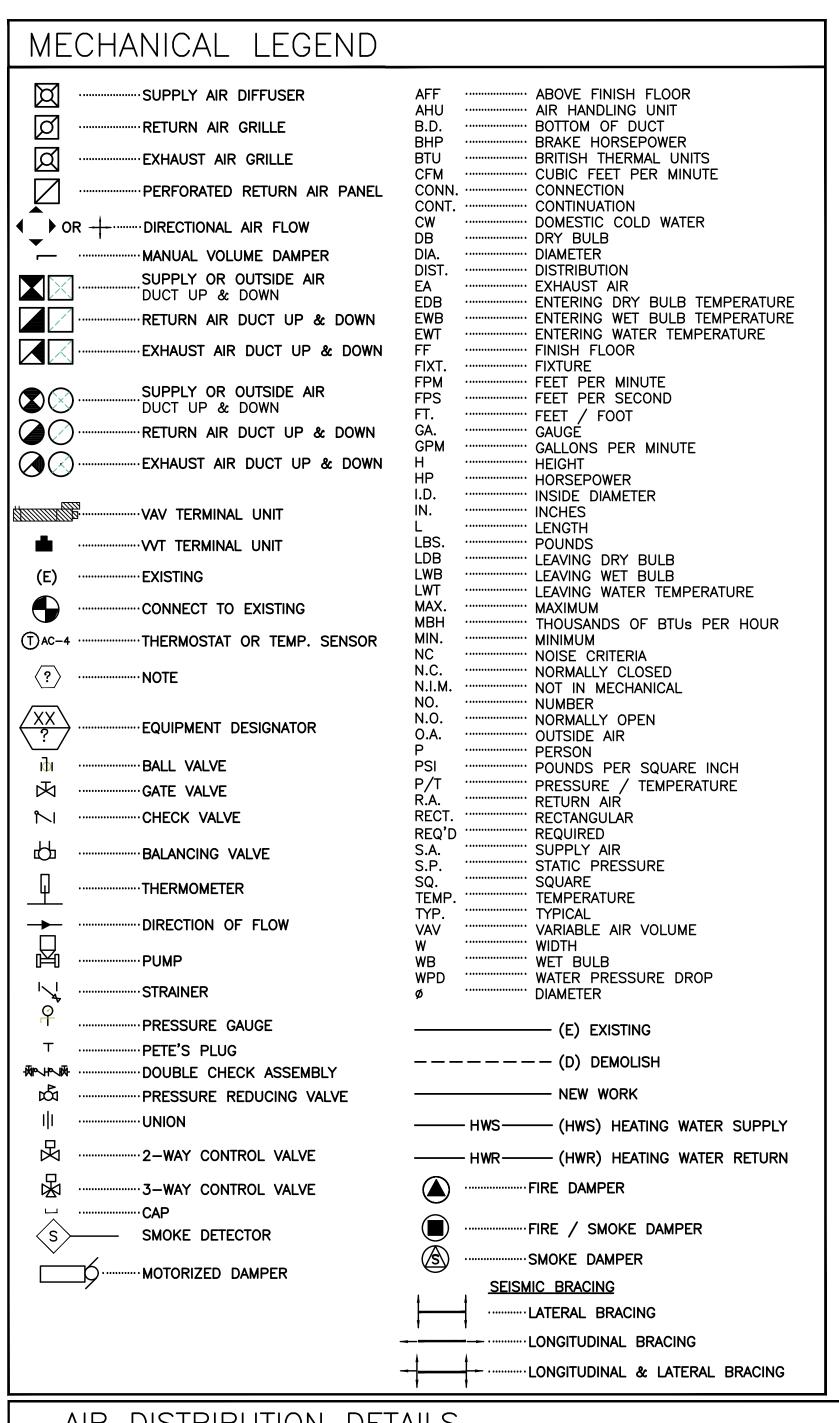




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SHEET

M2.11b



MARK NUMBER	EF 1	$\left\langle \frac{EF}{2} \right\rangle$	$\left\langle \frac{EF}{3} \right\rangle$	EF 4	EF 5
TYPE	CEILING CABINET	CEILING CABINET	CEILING CABINET	CEILING CABINET	CEILING CABINET
SYSTEM	BATHROOM	LAUNDRY	MECH/ELEC	BIKE STORAGE	JAN
CFM	30/80	30/80	100	200	50
TOTAL SP. (IN H20)	0.20	0.20	0.125	0.125	0.125
RPM	1062/1146	1062/1146	1250	740	1250
TIP SPEED (FPM)	NA	NA	-		_
MOTOR WATTS OR HP	5/11.7 W	5/11.7 W	100 W	127 W	100 W
CONTROLLED BY	*	*	CONTINUOUS	HUMIDISTAT	CONTINUOL
INTERLOCK WITH	MOTION SENSOR	LIGHTS	NONE	NONE	NONE
FAN SPEED CONTROLLER	YES	YES	NO	YES	NO
WHEEL TYPE	BI	BI	FC	BI	FC
BACK DRAFT DAMPER	YES	YES	GRAVITY	GRAVITY	GRAVITY
ISOLATION	RUBBER	RUBBER	RUBBER	RUBBER	RUBBER
DESIGN WEIGHT (LBS)	25	25	25	23	25
MAX. SONES	0.3/0.6	0.3/0.6	1.5	1.7	1.5
MAX AMPS - ***	0.27	0.27	1.3	1.8	1.3
POWER (VOLTS/PHASE/HZ) - ***	120/1/60	120/1/60	120/60/1	120/60/1	120/60/
BASIS OF DESIGN:	PANASONIC	PANASONIC	BROAN	BROAN	BROAN
	FV-05-11VKS2	FV-05-11VKS2	L100	L200	L100

INDOOR UNITS -	*
MARK NUMBER	FC-1 24 MBH
SYSTEM	LOBBY C101
TYPE	WALL MOUNTED
FEFICIENCY	CEE OUTDOOD UNIT

SYSTEM	LOBBY C101
TYPE	WALL MOUNTED
EFFICIENCY	SEE OUTDOOR UNIT
NOMINAL COOLING CAPACITY	24,000 BTUH
HEATING CAPACITY	24,000 BTUH
TOTAL SUPPLY CFM	870
OSA CFM	
EXTERNAL SP. ("H20)	0.125
VOLTS/PHASE**	208-1
MCA/MOP**	SEE OUTDOOR UNIT
WEIGHT	50
BASIS OF DESIGN	CARRIER
	40MAQB243
<u> </u>	

OUTDOOR UNIT

WITH CONDENSATE PUMP, ROUTE ALL CONDENSATE LINES HIDDEN WITHIN STRUCTURE TO AN APPROVED LOCATION PROVIDED BY THE PLUMBER. \*\* - ELECTRICAL DATA LISTED FOR REFERENCE ONLY, COORDINATE WITH ELECTRICAL DESIGN BUILD CONTRACTOR FOR VOLTAGE AND PHASE REQUIREMENTS. ELECTRICAL CONTRACTOR RESPONSIBLE FOR SIZING ALL CONDUCTORS & OVERCURRENT PROTECTION. VERIFY WITH EQUIPMENT SUBMITTALS FOR EQUIPMENT ELECTRICAL REQUIREMENTS

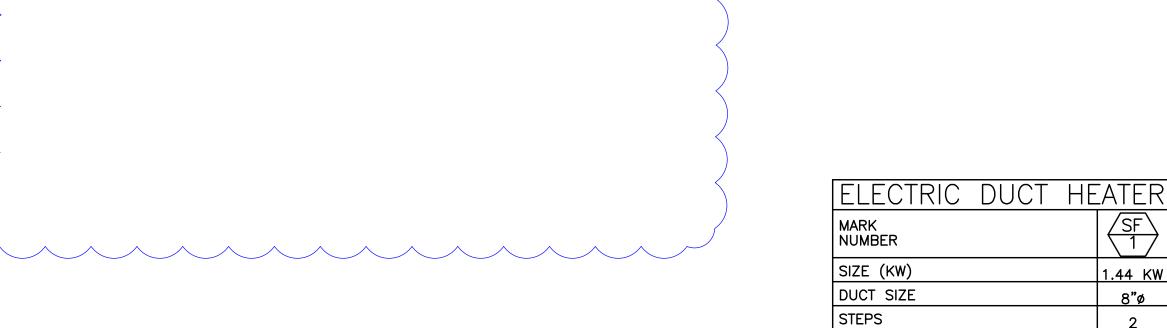
\* - PROVIDE ALL UNITS THAT CANNOT BE DRAINED BY GRAVITY

OUTDOOR UNITS -	SPLIT SYSTEM
MARK NUMBER	HP-1 2 TON
SYSTEM	LOBBY C101
TYPE	1-PORT HEAT PUMP
NORMAL COOLING CAPACITY	24,000 BTUH
NORMAL HEATING CAPACITY	24000 BTUH
EFFICIENCY SEER/EER	20/12.5
EFFICIENCY HSPF/COP	10/3.22
REFRIGERANT	410 A
REFRIGERANT CHARGE	
MAX OPERATING TEMPS	122/-4
MAX PIPING LENGTH	98 FT
MAX PIPING HEIGHT	65 FT
VOLTS-PHASE - **	208/230-1 PHASE
MCA/MOP - **	15/25 AMPS
COMPRESSOR	VARIABLE SPEED
WEIGHT	150 LBS
BASIS OF DESIGN	CARRIER 38MAQB243

\*\* - ELECTRICAL DATA LISTED FOR REFERENCE ONLY, COORDINATE WITH ELECTRICAL DESIGN BUILD CONTRACTOR FOR VOLTAGE AND PHASE REQUIREMENTS. ELECTRICAL CONTRACTOR RESPONSIBLE FOR SIZING ALL CONDUCTORS & OVERCURRENT PROTECTION. VERIFY WITH EQUIPMENT SUBMITTALS FOR EQUIPMENT ELECTRICAL REQUIREMENTS

GARAGE EXHAUST FANS		
MARK NUMBER	GEF X3	GEF 2
TYPE	CENTRIFIGAL JET FAN	SQ IN-LINE BELT DRIVE
SYSTEM	GARAGE CIRCULATION	GARAGE
CFM	3,384	24,099
TOTAL SP. (IN H20)	NA	0.1
RPM	1650	2141
TIP SPEED (FPM)		14,424
MOTOR WATTS OR HP	1.5 KW	15 HP
CONTROLLED BY	CONTINUOUS	VFD
INTERLOCK WITH	NONE	CO/NO2
FAN SPEED CONTROLLER	YES	NO
WHEEL TYPE	ВІ	BI
BACK DRAFT DAMPER	NONE	NONE
ISOLATION	SPRING	SPRING
DESIGN WEIGHT (LBS)	60	600
MAX. SONES OR dBA	83 dBA	95 dBA
MAX AMPS - ***	6.13 AMPS	46.2 FLA
POWER (VOLTS/PHASE/HZ) - ***	230/60/3	208/60/3
BASIS OF DESIGN:	S&P JET FAN	GREENHECK
	IFFT -50N	TBI-FS-4L30-150

\*\*\* - ELECTRICAL DATA LISTED FOR REFERENCE ONLY, COORDINATE WITH ELECTRICAL DESIGN BUILD CONTRACTOR FOR VOLTAGE AND PHASE REQUIREMENTS. ELECTRICAL CONTRACTOR RESPONSIBLE FOR SIZING ALL CONDUCTORS & OVERCURRENT PROTECTION. VERIFY WITH EQUIPMENT SUBMITTALS FOR EQUIPMENT ELECTRICAL REQUIREMENTS



HP8 BASIS OF DESIGN: HOTPOD \* - ELECTRICAL DATA LISTED FOR REFERENCE ONLY, COORDINATE WITH ELECTRICAL DESIGN BUILD CONTRACTOR FOR VOLTAGE AND PHASE REQUIREMENTS

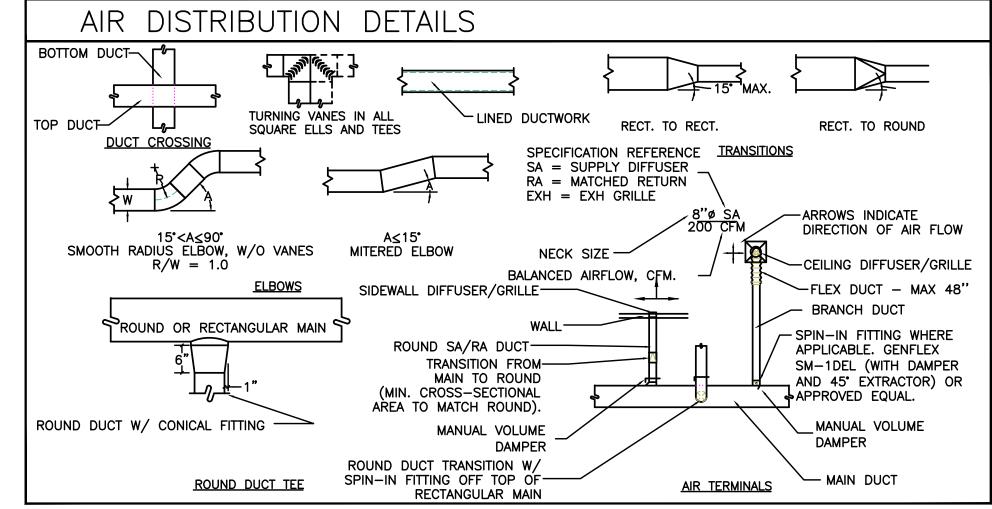
POWER (VOLTS/PHASE) \*

1.44 KW

8"ø

12.6

120/1



<u>EFERR</u>	ED SU	BMITTALS - MECHAI	NICAL		
DEFERF	RED SU	BMITTALS SHOWING	G THE ANC	HOR DETAILS	AND CALCULATION
WILL B	E PRO\	/IDED TO THE CITY O	F PORTLA	ND 30 DAYS PI	RIOR TO THE START
	OF W	ORK AND SHALL INC	LUDE THE	FOLLOWING E	QUIPMENT
EQUIPN	1ENT	DESCRIPTION	WEIGHT	SUBMITTED	INSPECTOR CHECK
GEF-2		GARAGE EXHAUST	350 LBS		
HP-1		HP CONDENSER	250 LBS		

· · · · · · · · · · · · · · · · · · ·		<u> </u>			
R	ESIDENTIA	L VENTIL	ATION SO	CHEDULE	
DWELLING UNIT A STUDIO = 520 1 BED = 565 2 BED = 950 3 BED = 1391			ansi/as	HRAE Standard 62	2.2-2019
	Bedroon	ıs			
Floor Area, ft <sup>2</sup>	1	2	3	4	5
	30	38	3 45	53	60
<500					_
<500 501 to 1000	30	38	45	53	60
<500 501 to 1000 1001 to 1500	30 45	38	45 60	53	60 75
<500 501 to 1000 1001 to 1500 1501 to 2000	30 45 60	38 53 68	45 60 75	53 68 83	60 75 90
<500 501 to 1000 1001 to 1500 1501 to 2000 2001 to 2500	30 45 60 75	38 53 68 83	45 60 75 90	53 68 83 98	60 75 90 105
<500 501 to 1000 1001 to 1500 1501 to 2000 2001 to 2500 2501 to 3000	30 45 60 75 90	38 53 68 83 98	45 60 75 90 105	53 68 83 98 113	60 75 90 105 120
Floor Area, ft <sup>2</sup> <500 501 to 1000 1001 to 1500 1501 to 2000 2001 to 2500 2501 to 3000 3001 to 3500 3501 to 4000	30 45 60 75 90 105	38 53 68 83 98 113	45 60 75 90 105 120	53 68 83 98 113 128	60 75 90 105 120 135
<500 501 to 1000 1001 to 1500 1501 to 2000 2001 to 2500 2501 to 3000 3001 to 3500	30 45 60 75 90 105 120	38 53 68 83 98 113 128	45 60 75 90 105 120 135	53 68 83 98 113 128 143	60 75 90 105 120 135 150

MARK NUMBER	PTHP-1 9 MBH	PTHP-2 12 MBH	PTHP-3 15 MBH	PTHP-4 15 MBH
TYPE	THRU-THE-WALL HEAT PUMP	THRU-THE-WALL HEAT PUMP	THRU-THE-WALL HEAT PUMP	THRU-THE-WALL
SYSTEM	STUDIO	1 BEDROOM	2&3 BEDROOM	CORRIDOR
NOMINAL COOLING CAPACITY (BTUH)	9,000	11,500	14,000	14,000
HEATING CAPACITY (BTUH)  @ 47°F OUTDOOR AIR TEMP	9,000	11,500	14,000	14,000
ELECTRIC HEATING CAPACITY (KW)	2.5	3.5	3.5	3.5
CFM (HI/LOW) (WET COIL)	290/264	290/264	340/314	340/314
MIN OSA (CFM)	65 CFM	65 CFM	65 CFM	65 CFM
LVG. AIR TEMP (*F)	55 <b>°</b> F	55°F	55 <b>°</b> F	55°F
REMOTE THERMOSTAT	YES	YES	YES	YES
EFFICIENCY (EER)	11.2	10.2	10.2	9.6
EFFICIENCY (COP)	3.5	3.5	3.1	3.1
ARCHITECTURAL GRILLE	YES	YES	YES	YES
DESIGN WT. (LBS)	135	135	145	145
ELECT (VOLTS/PHASE/HTZ)	230/1/60	230/1/60	230/1/60	230/1/60
TOTAL AMPS	11.2	15.5	15.5	15.5
MCA/MOP	14/15	19.5/20	19.5/20	19.5/20
REFRIGERANT	410a	410a	410a	410a
REFRIGERANT CHARGE	1.34 LBS	1.34 LBS	1.95 LBS	1.95 LBS
CONDENSATE DRAIN KIT *	YES - *	YES - *	YES - *	YES - *
			DT114.5.7.5	DT114.5.7.5

PTH093E PTH123E PTH153E PTH153E \* - CONDENSATE DRAIN KIT PROVIDED BY MECHANICAL CONTRACTOR, ALL CONDENSATE PIPING TO BE ROUTED TO AN APPROVED LOCATION, SEE PLANS

VENTILATION A	AIR SCHEDU	JLE - CO	RRIDOR	S											
	ADEA (CO. ET.)	OCCUDANT	NUMBER OF	OLITOIDE AID	OLITOIDE AID	OUTOIDE AID		70115	CUDDLY	DDIMADV	DETUDN	EMIALICE	7	Composted	AIR
ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD	NUMBER OF OCCUPANTS	OUTSIDE AIR REQUIREMENT	OUTSIDE AIR	OUTSIDE AIR REQUIRED (CFM)		ZONE OSA	SUPPLY AIR (CFM)	PRIMARY OSA		EXHAUST AIR (CFM)	Zone Ventilation	Corrected OSA	SYSTEMS
AND NAME		(#/1000 SQ. FT.)		(CFM/P)	(CFM/SQ FT.)	TEQUITED (OF WI)		(CFM)	AIR (CI WI)	FRACTION		All (Cl W)	Efficiency	CFM	STOTEMO
	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	<b>Z</b> p			Evz		
CORRIDORS	2995	0	0	0	0.06	180	0.8	225	1000	0.22	1000	0	0.91	246.79	PTHP-4
STORAGE	300	0	0	0	0.12	36	8.0	45	1000	0.05	1000	0	1.09	49.44	SF-1
TOTAL	3295		0			216		270	2000		2000	0	0.91	296	
<b>5</b> 17.12	0230					210		Vou	Vps		2000	•	Ev	200	



	PLAN REVIEW	PLAN REVIEW #2	PLAN REVIEW #4	PLAN REVIEW #5		
	3.28.2022	4.18.2022	6.7.2022	6.24.2022		
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Date:	Proj No:	Drawn By:	Chkd By:	DSGN By:	Acad File:	

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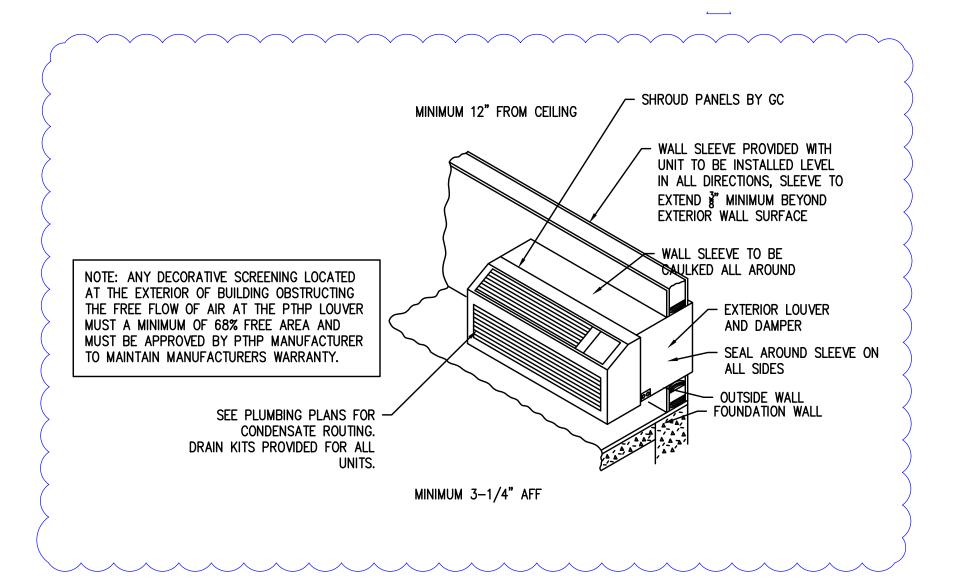
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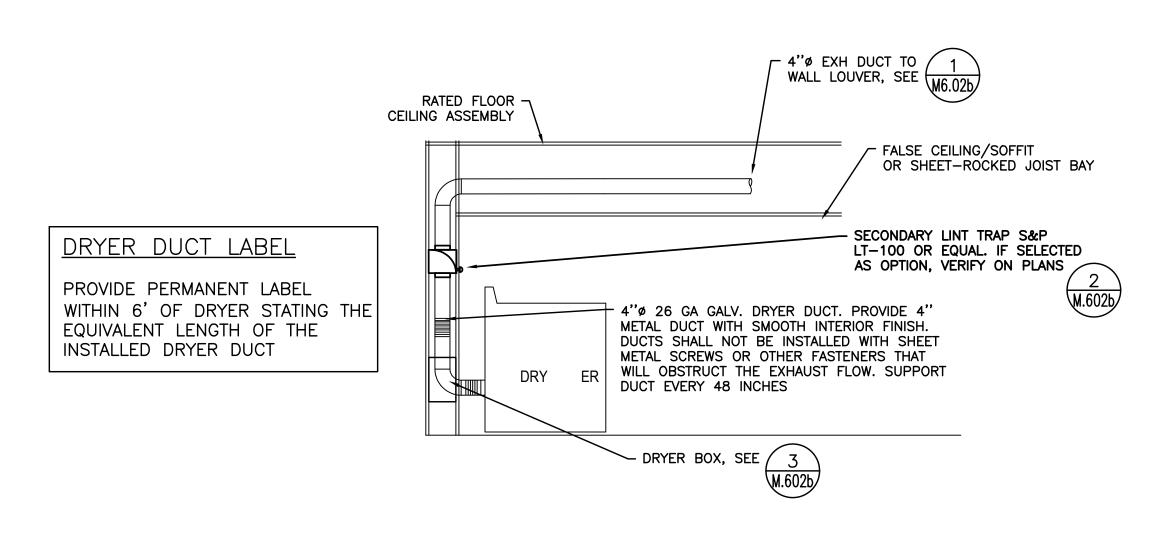
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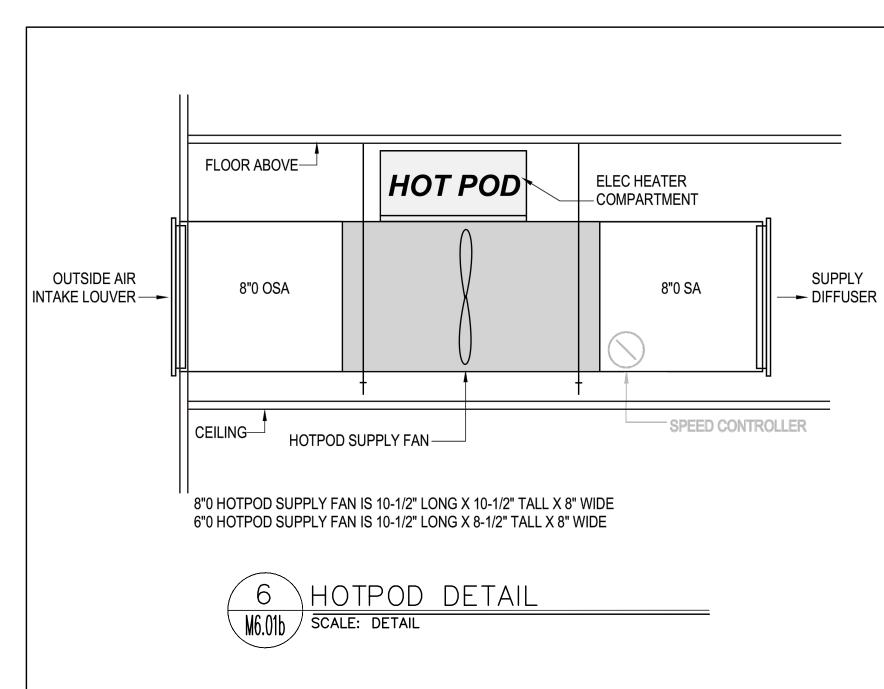
SHEET

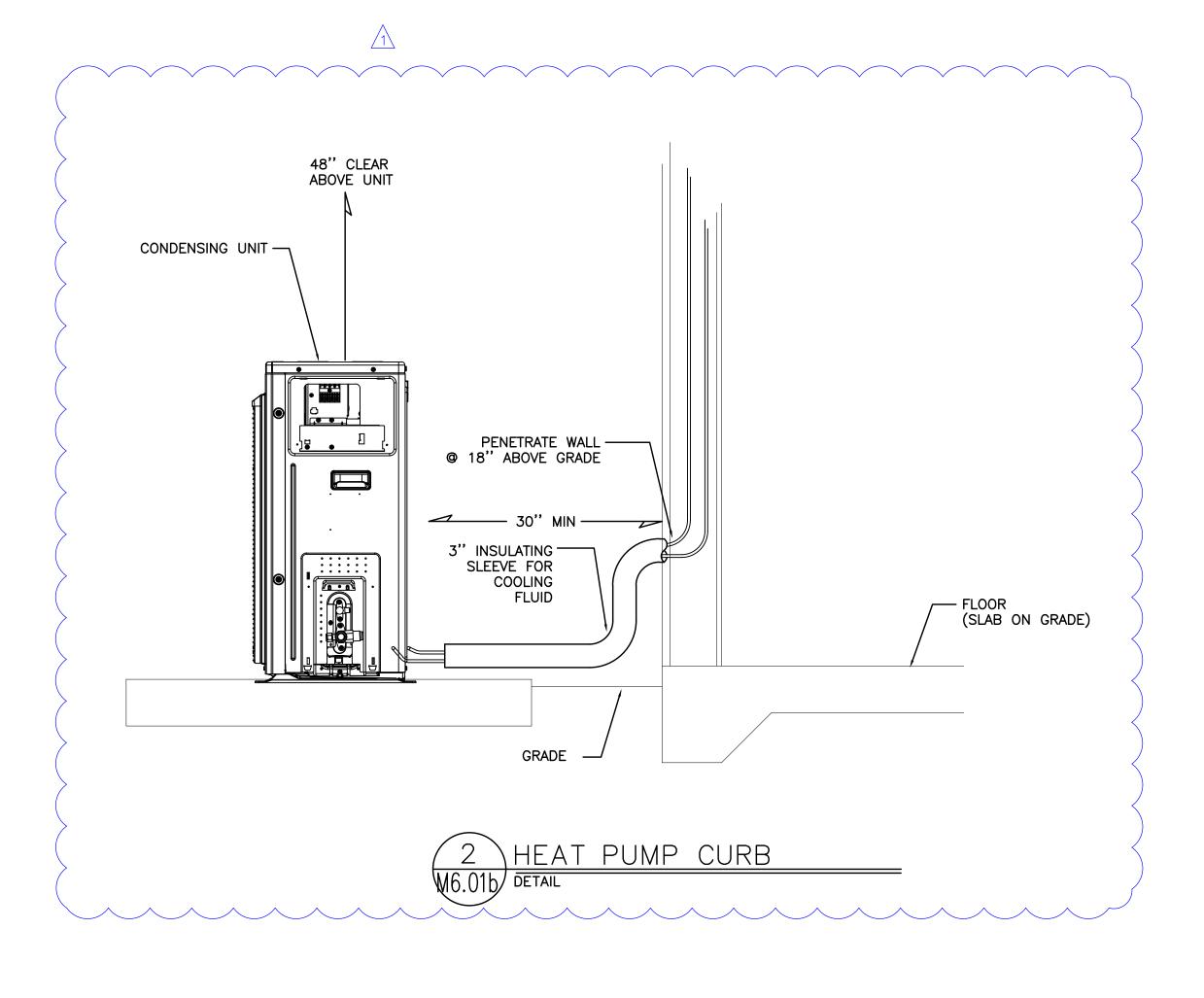
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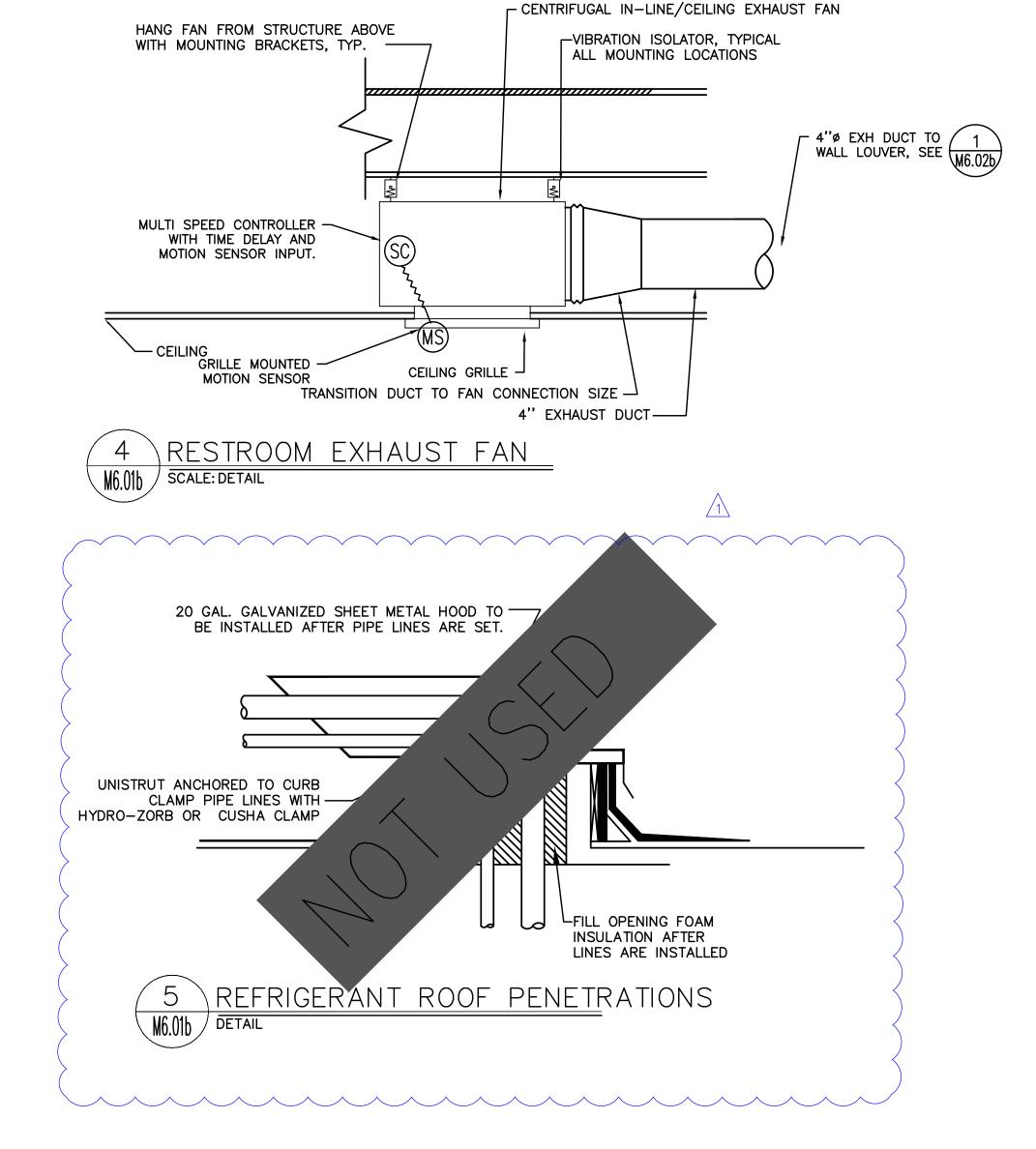
# 1 PTHP AT EXTERIOR WALL M6.01b NOT TO SCALE

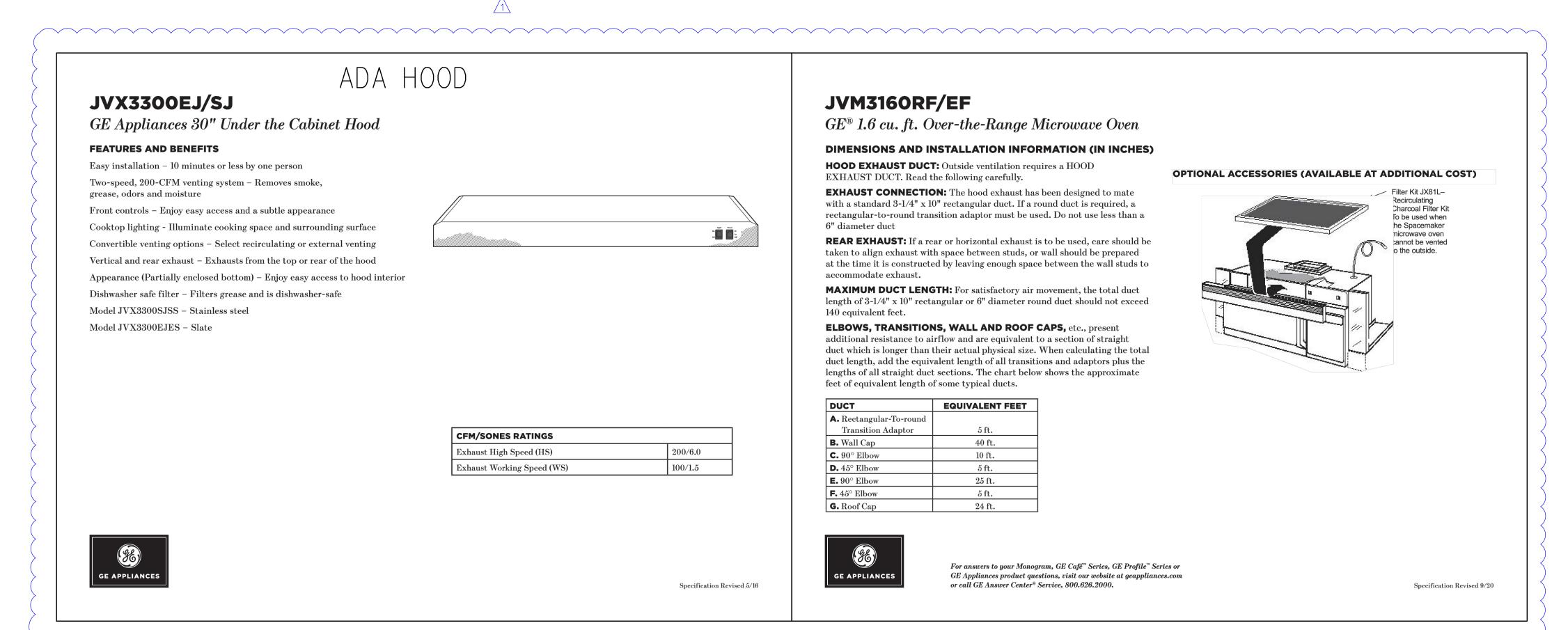












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EXPIRES: 31DEC21

 Date:
 9-29-21

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 3.28.2022
 PLAN REVIEW

 Drawn By:
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 PLAN REVIEW #2

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BUILDING B

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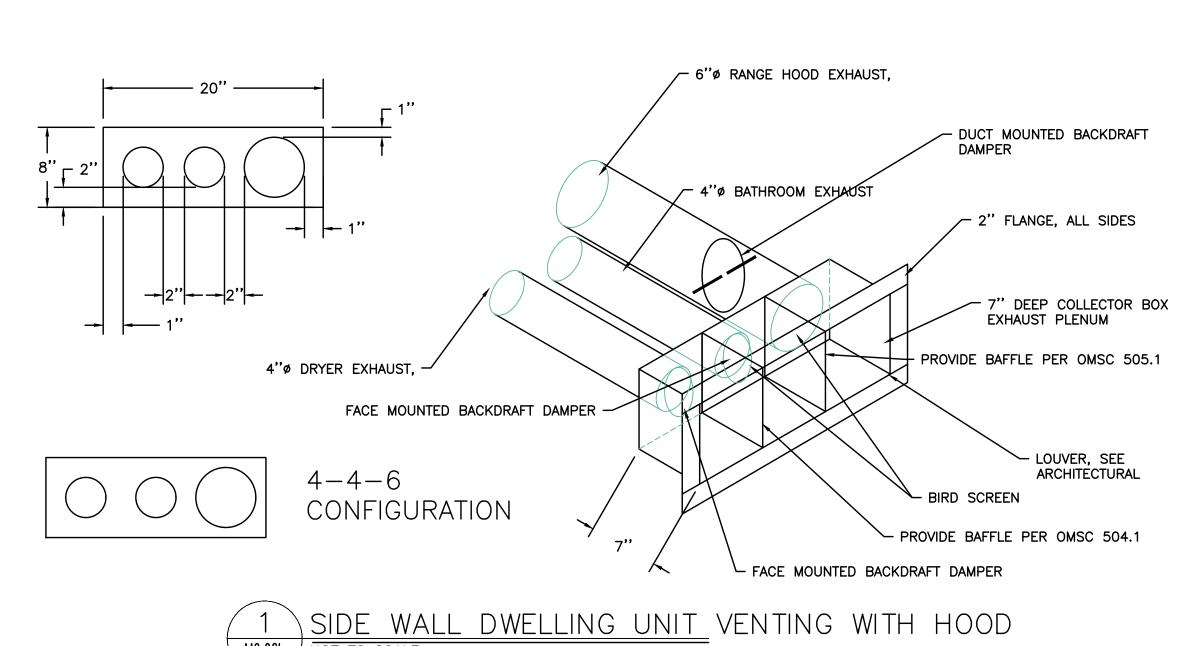




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SHEET

M6.01



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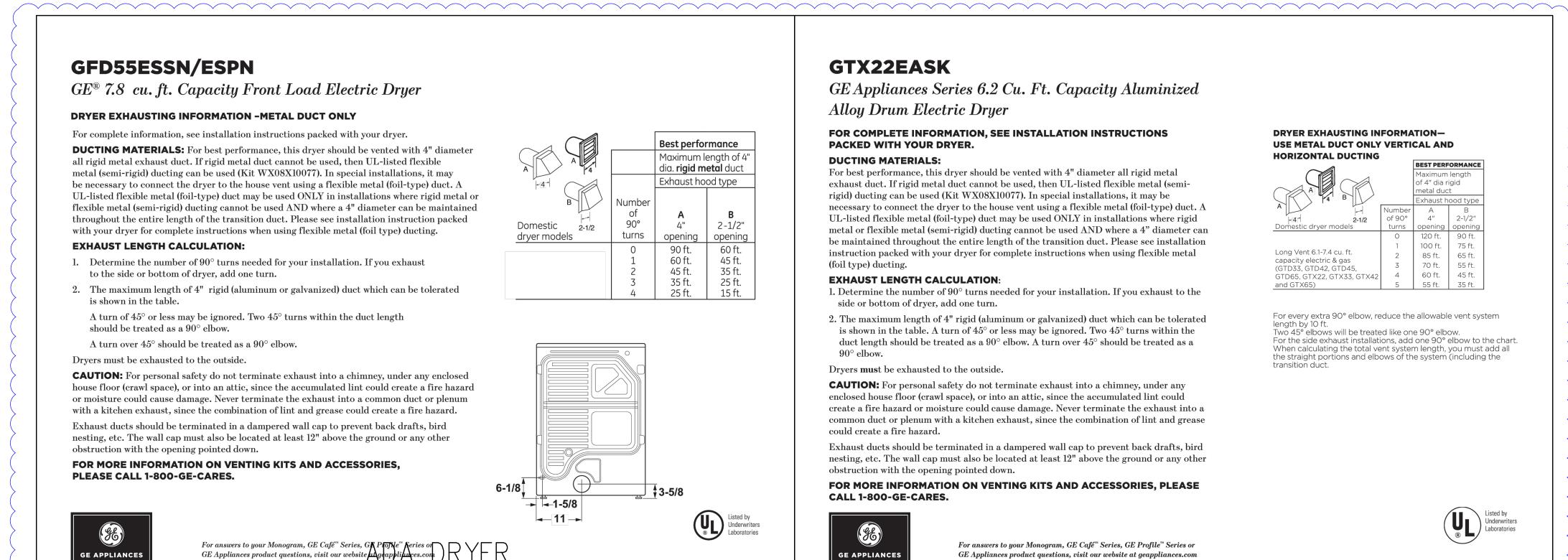
Resources for other well made ventilation products by InOvate:

888) 443-7937

www.Dryer-Ell.com • www.DryerFlex.com • www.DryerJack.com www.DryerPlacard.com • www.DryerWallVent.com

www.dryerbox.com

DRYER BOX DETAIL



or call GE Answer Center® Service, 800.626.2000.



GE Appliances Series 6.2 Cu. Ft. Capacity Aluminized Alloy Drum Electric Dryer

### FOR COMPLETE INFORMATION, SEE INSTALLATION INSTRUCTIONS PACKED WITH YOUR DRYER.

**DUCTING MATERIALS:** For best performance, this dryer should be vented with 4" diameter all rigid metal

exhaust duct. If rigid metal duct cannot be used, then UL-listed flexible metal (semirigid) ducting can be used (Kit WX08X10077). In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used ONLY in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used AND where a 4" diameter can be maintained throughout the entire length of the transition duct. Please see installation instruction packed with your dryer for complete instructions when using flexible metal (foil type) ducting.

### **EXHAUST LENGTH CALCULATION:**

1. Determine the number of  $90^{\circ}$  turns needed for your installation. If you exhaust to the side or bottom of dryer, add one turn.

2. The maximum length of 4" rigid (aluminum or galvanized) duct which can be tolerated is shown in the table. A turn of  $45^{\circ}$  or less may be ignored. Two  $45^{\circ}$  turns within the duct length should be treated as a  $90^{\circ}$  elbow. A turn over  $45^{\circ}$  should be treated as a  $90^{\circ}$  elbow.

### Dryers **mus**t be exhausted to the outside.

**CAUTION:** For personal safety do not terminate exhaust into a chimney, under any enclosed house floor (crawl space), or into an attic, since the accumulated lint could create a fire hazard or moisture could cause damage. Never terminate the exhaust into a common duct or plenum with a kitchen exhaust, since the combination of lint and grease could create a fire hazard. Exhaust ducts should be terminated in a dampered wall cap to prevent back drafts, bird

nesting, etc. The wall cap must also be located at least 12" above the ground or any other obstruction with the opening pointed down. FOR MORE INFORMATION ON VENTING KITS AND ACCESSORIES, PLEASE



Specification Revised 11/19

CALL 1-800-GE-CARES.

For answers to your Monogram, GE Café™ Series, GE Profile™ Series or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800,626,2000.



85 ft. 65 ft.

3 70 ft. 55 ft.

4 60 ft. 45 ft.

For every extra 90° elbow, reduce the allowable vent system

For the side exhaust installations, add one 90° elbow to the chart.

When calculating the total vent system length, you must add all the straight portions and elbows of the system (including the

Two 45° elbows will be treated like one 90° elbow.

DRYER EXHAUSTING INFORMATION—

HORIZONTAL DUCTING

Long Vent 6.1-7.4 cu. ft.

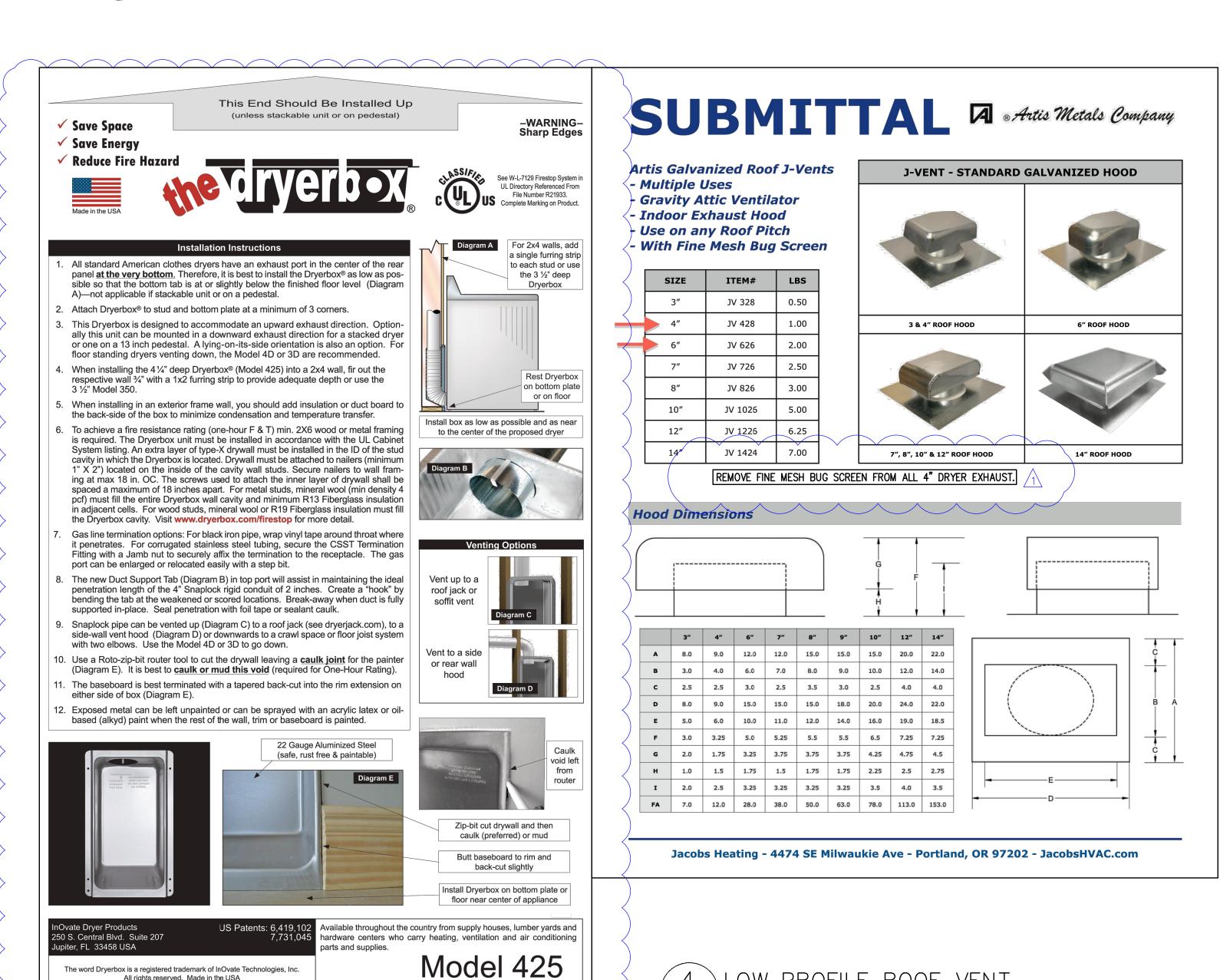
and GTX65)

capacity electric & gas (GTD33, GTD42, GTD45,

GTD65, GTX22, GTX33, GTX42

USE METAL DUCT ONLY VERTICAL AND

Specification Revised 7/16



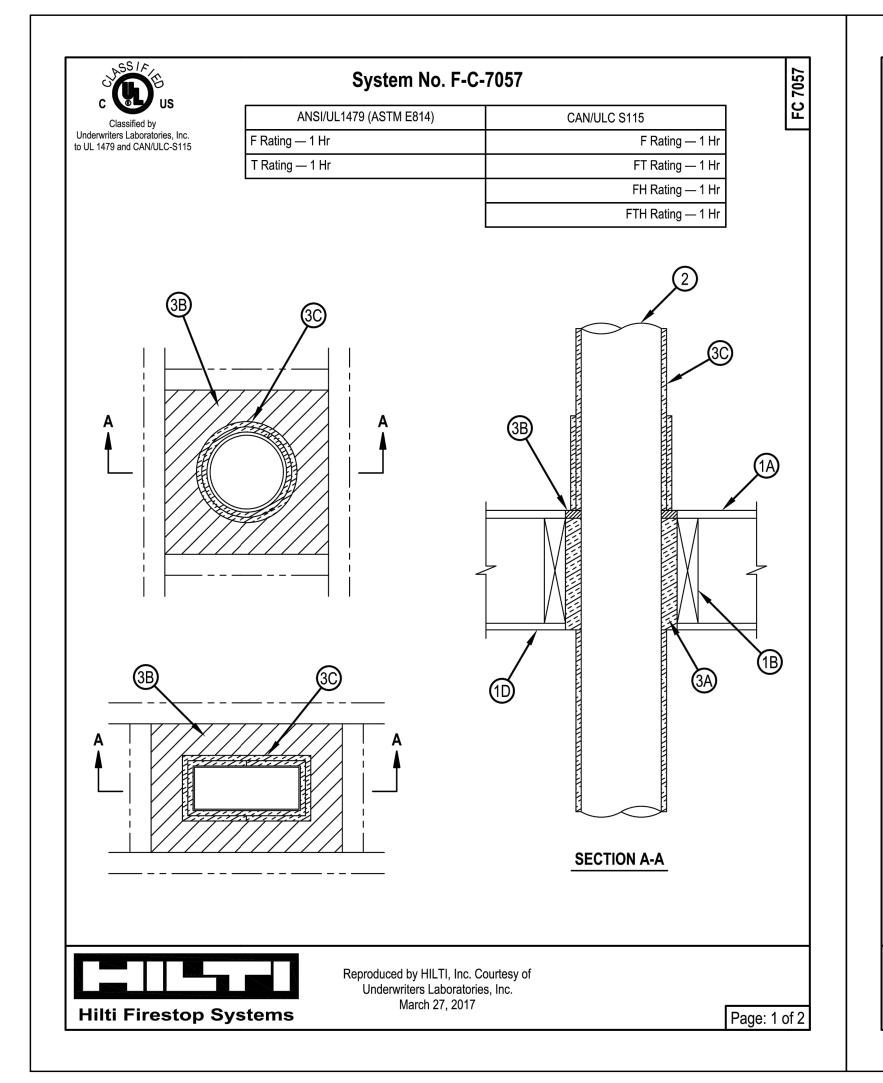
(4 1/4" Deep)

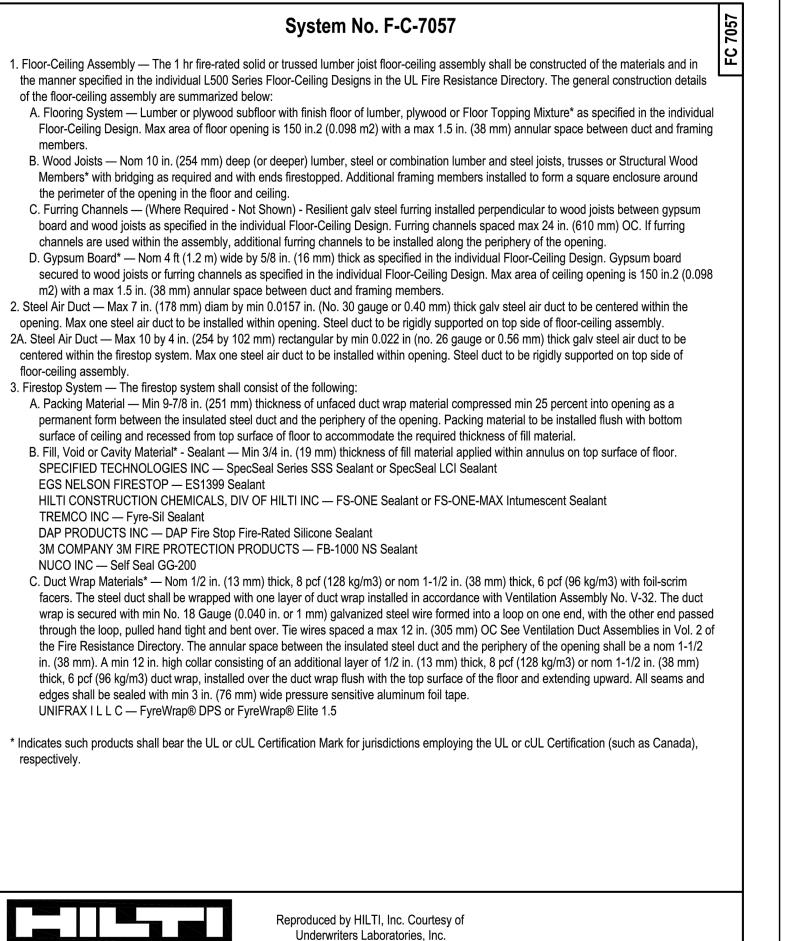
Locate a distributor near you by using the

online supplier locator at www.dryerbox.com

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Part Number:





LOW PROFILE ROOF VENT

5 FIRE PENETRATION DETAIL - VERTICAL 4" & 6" DUCTS

Hilti Firestop Systems

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