



415 Broadway
Oklahoma City
Oklahoma 73102
V. 405.232.8787

ADDENDUM: 1

Project: City of Moore, Vermeer Sign Shop & Streets Breakroom

Project No: TAP Project No. 2516
City of Moore Project No. 2026-009

To: All bidders and plan holders.

Date: February / 04 / 2026

Please be advised of the following revisions, clarifications, additions and / or deletions to the project. All General Contract Bidders are required to acknowledge receipt of this addendum in the space provided at the end of this form and return a signed copy with each page initialed to the architect prior to the bid opening. In addition, all General Contract Bidders shall acknowledge receipt of this addendum in the appropriate space on the bid form.

This addendum consists of

1 - CHANGES TO PRIOR ADDENDA:

A1.1.1: None.

2 – CHANGES TO SPECIFICATIONS:

A1.2.1 None.

3 – CHANGES TO AGREEMENT AND OTHER CONTRACT FORMS:

A1.3.1 None.

4 – CHANGES TO CONDITIONS OF THE CONTRACT

A1.4.1 None.

5 – CHANGES TO DRAWINGS

Architectural

A1.5.1 Refer to Sheet A210 – Door 103A was listed as a wood door on the schedule, Revised the door schedule for Door 103A to be exterior HM Door.

A1.5.2 Refer to Sheet G310 – Revised Partition Type 1A to have the 3/4" plywood on the outside face of the office wall that faces shop, paint plywood.

Mechanical

A1.5.3 Refer to provided sketches by mechanical engineer for the BASIS OF DESIGN for HVAC requirements.

A1.5.4 Refer to cut sheet for EF-1 (exhaust fan) for Vermeer Sign shop restroom.



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A1.5.5 Refer to cut sheet for FCU-1 (HVAC unit) for Vermeer Sign shop.

A1.5.6 Refer to cut sheet for FCU-2 (HVAC unit) for Streets Breakroom.

A1.5.7 Refer to provided "Split System Heat Pump Schedule" for additional FCU-1 and FCU-2 information.

6 – CONTRACTOR QUESTIONS

A1.6.1 The notice to bidders says no on wage rates, but there is a wage rate section in the specs. Want to make sure this is not a wage rate project?

ANSWER – The project is not a wage rate project.

A1.6.2 Will long lead time items such as MEP be factored into the 120 calendar days or will there be an extension?

ANSWER – This project should not encounter any long lead items for MEP, but if for some reason during the submittal phase if there is an item that causes delay to the project, an extension would be approved.

A1.6.3 At the pre-bid meeting it was stated that this isn't actually a unit price bid, please clarify?

ANSWER – The bid documents do not ask for "Unit Prices" – the spec manual provides the contractor a "Bid Schedule" or your costs for each CSI division labeled in the Bid Schedule – refer the spec manual.

A1.6.4 At the end of the site walk it was mentioned that the Vermeer building would need to be complete before the streets building begins, will each building have a separate 120 schedule?

ANSWER – No separate 120 day schedule, but the contractor will be awarded a certain number of days to make the shift over to the Streets Breakroom.

A1.6.5 Vermeer Sign Shop - Is the contractor responsible for replacing the (2) existing ridge vents?

ANSWER – NO, at this time we are not going to replace the ridge vents, if during the project it is determined they do leak, the team will address it with a change order.

A1.6.6 Vermeer Sign Shop - Is the contractor to account for framing in the shop area for the plywood being installed on the perimeter walls?



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ANSWER – YES, the contractor needs to have included in their costs for light gauge framing at 16" O.C. with a continuous bottom and top track, max 2-1/2" studs.

A1.6.7 Vermeer Sign Shop – What does the contractor need to include in their painting costs on the plywood?

ANSWER – Contractor does not paint the plywood in the shop area, But the contractor does need to include costs for painting the shop wall that is plywood along the office area.

A1.6.8 What is the ceiling heights for all ACT areas and open structures?

ANSWER - Ceiling height at Vermeer Sign shop is 9'-0" and ceiling height at Streets Breakroom is 8'-0".

A1.6.9 Contractor requesting the bid form be cleaned up to have Bonding, Insurance, OH&P to be under base bid and not under alternates.

ANSWER – Even though on the bid form it is under the alternates, it is for the base bid only, this line item does not have any correlation with the alternates.

8 – SUBSTITUTIONS

A1.8.1 SESCO Lighting - lighting package is an **approved** substitution.

9 – PRE-BID MEETING CLARIFICATION

A1.9.1 There was a mistake on the published advertisement in the Daily Oklahoman pre-bid meeting time and location, so there were (2) two pre-bid meetings held on 1/29/2026. The specification manual had the meeting at 10:00am at council chambers, the advertisement in the Oklahoman was at 1:30pm at public works. So, TAP conducted both meetings and provided the bidders list with Addenda 01.

End Addendum

Acknowledgment:

We, the undersigned General Contract Bidder acknowledge receipt of this addendum.

Signed: _____ Company _____

Date: _____

(Also acknowledge receipt on bid proposal form).



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F. 405.232.8810

City of Moore – Buck Thomas Restroom Facility
TAPARCHITECTURE Project Number: 2221

Contractors Bidders List

Landmark Construction Group

Matt Smith
405.843.8041
msmith@landmarkokc.com

Apollo Building Systems

Karel Thiessen
405.790.0335
karol@apollobuildingsystems.com

Lippert Brothers

Hank Hudson
405.478.3580
hudson@lippertbros.com

Midtown Construction

Shawn Carson
405.640.6886
estimating@midtownconst.com

JNL Construction

Isaac Land
405.283.9127
office@jnlconstructionllc.com

Box Construction

Brandon Box
405.595.8554
bbox@boxconstructionllc.com

Borg-ster Construction

Michael Borg
405.409.6453
Theborg1of7@yahoo.com

Unity Solutions LLC

Jack Massey
405.708.8015
Jackmassey4428@gmail.com

Skybridge Construction

Jeremy Halferty / Austin Bui
405.808.5915
jeremy.halferty@skybridgellc.com

Cactus Construction

Lisa Sheldon
405.764.4443
lisa@cactusconstruction.com

L5 Construction

Bobbie McDaniel
405.492.0932
bmcdaniel@L5GC.com

OMNI Construction

Chris Dysart
405.735.3992
omniconstruction@omnioklahoma.com

S.H. Vaughn Construction

Emma Towe / Shane Vaughn
405.312.3365
emma@shvconstruction.com
shane@shvconstruction.com

Stronghold Construction

Kenneth Becknel
405.802.7708
estimating@stronghold.construction

C4L Construction LLC

Drew Blalock
405.314.0802
kirk@c4lok.com

K&M Wrecking

Duane Allen
405.691.5100
duane@kmwrecking.com



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City of Moore – Buck Thomas Restroom Facility
TAPARCHITECTURE Project Number: 2221

Contractors Bidders List

Thompson General Contracting

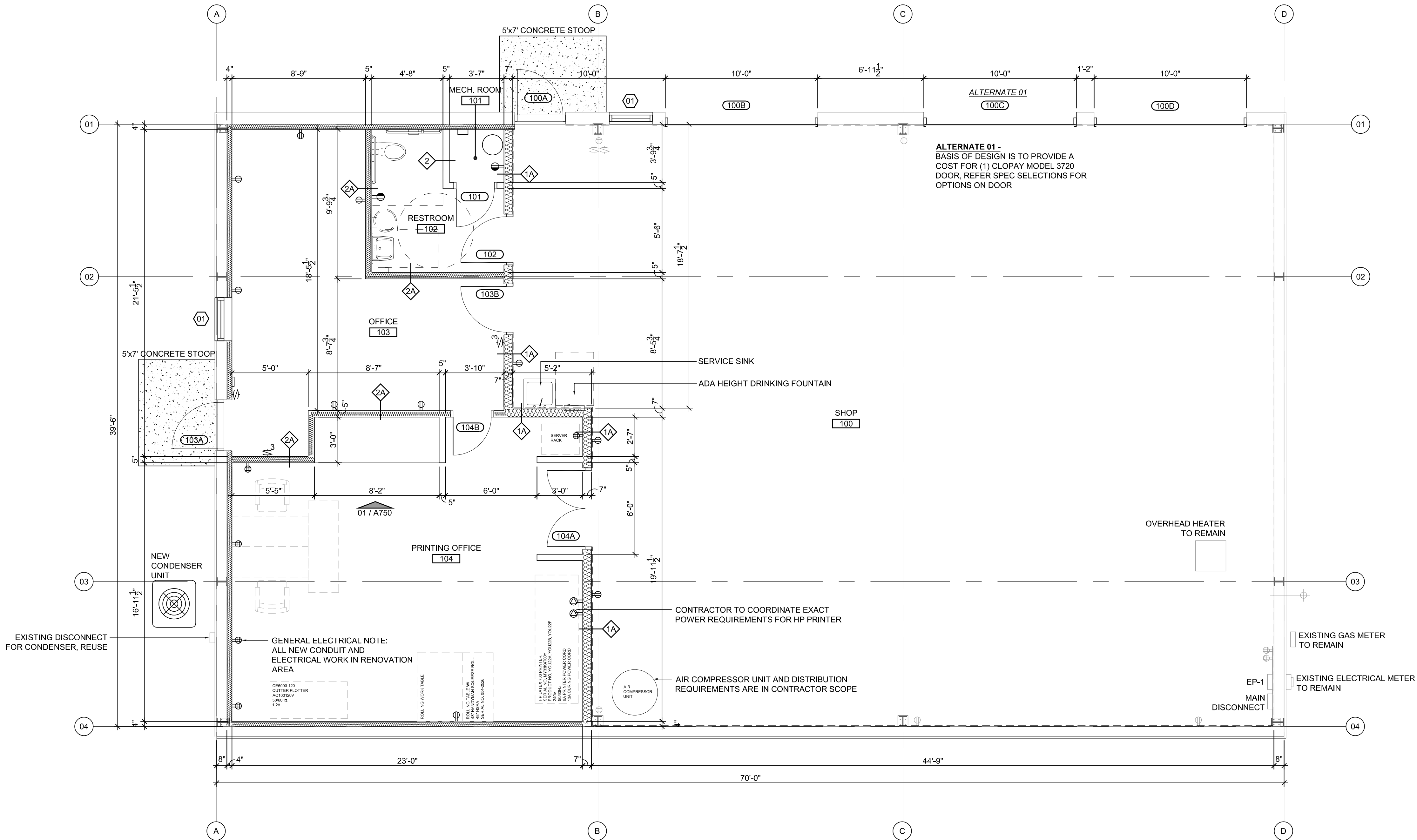
Ben Thompson / Trey Thompson

405.408.7594

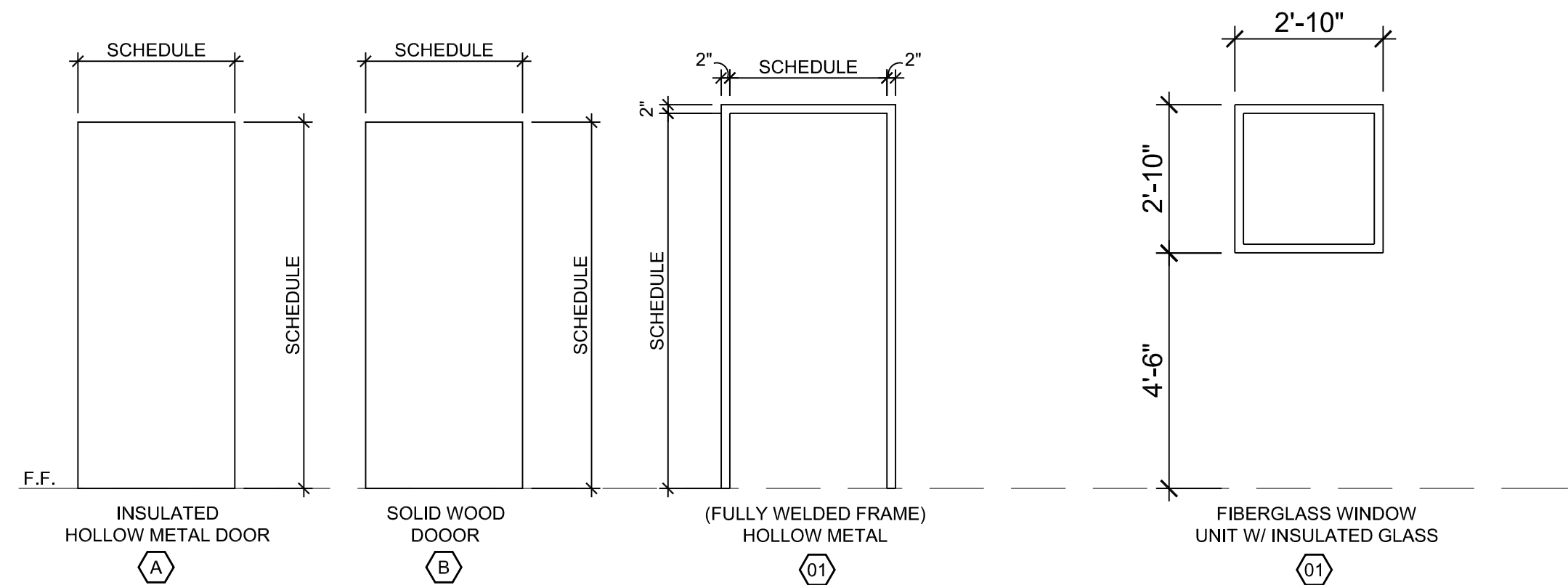
ben@thompsongeneralcontracting.com

trey@thompsongeneralcontracting.com

A:\2516 - City of Moore - Sign Shop & Streets Breakroom\04_CD\01_Drawing\04_CAD\2516_A210.dwg



SIGN SHOP
DIMENSIONED FLOOR PLAN
SCALE: 1/4" = 1'-0"



02 DOOR TYPE
SCALE: 3/8" = 1'-0"

03 FRAME TYPE
SCALE: 3/8" = 1'-0"

04 WINDOW TYPE
SCALE: 3/8" = 1'-0"

DOOR SCHEDULE

DR. NO.	ROOM NAME	DOOR SIZE	DOOR TYPE	FRAME TYPE	HARDWARE	DETAILS			REMARKS
						HEAD	JAMB	SILL	
100A	SHOP	3'-0" X 7'-0"	A	01	1.0				EXTERIOR GRADE LOCKSET AND DEADBOLT
100B	SHOP - OHD	10'-0" X 10'-0"	-	-	-				REPLACE OHD AND PROVIDE NEW OPENER
100C	ALTERNATE 01 - SHOP OHD	10'-0" X 10'-0"	-	-	-				ALTERNATE 01 - CUT NEW HOLE, PROVIDE NEW OHD
100D	SHOP OHD	10'-0" X 10'-0"	-	-	-				REPLACE OHD AND PROVIDE NEW OPENER
101	MECH. ROOM	2'-6" X 7'-0"	B	01	6.0				PASSAGE SET
102	RESTROOM	3'-0" X 7'-0"	B	01	7.0				RESTROOM LOCKSET, THRESHOLD & PERIMETER SEAL
103A	OFFICE	3'-0" X 7'-0"	A	01	2.0				EXTERIOR GRADE LOCKSET AND DEADBOLT
103B	OFFICE	3'-0" X 7'-0"	B	01	5.0				OFFICE LOCKSET, THRESHOLD & PERIMETER SEAL
104A	PRINTING OFFICE	3'-0" X 7'-0"	B	01	3.0				OFFICE LOCKSET, THRESHOLD & PERIMETER SEAL
104B	PRINTING OFFICE	3'-0" X 7'-0"	B	01	4.0				STOREROOM LOCKSET

RECEPTACLES

- COUNTERTOP MOUNTED
(MIN. 4" ABOVE BACKSPLASH, COORDINATE WITH BACKSPLASH MATERIAL)

- DUPLEX FLOOR RECEPTACLE OUTLET
- DUPLEX RECEPTACLE OUTLET
- GFCI (GROUND FAULT CIRCUIT INTERRUPTER) OUTLET
- QUADRUPLEX OUTLET
- SPECIALTY AMP OUTLET

GENERAL NOTES:

- ALTERATIONS TO EXISTING WORK BEING OF SUCH NATURE THAT ALL FACETS OF THE WORK ARE IMPOSSIBLE TO DETAIL AND SPECIFY. IT IS THEREFORE THE GENERAL CONTRACTORS AND DEMOLITION CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE, CAREFULLY EXAMINE THE BUILDING AND GROUNDS, AND COMPLETELY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND RELATE SUCH CONDITIONS TO THE SCOPE OF THE PROPOSED NEW WORK.
- THE CONTRACTOR SHALL VERIFY AND EVALUATE ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE PRIOR TO CONSTRUCTION.
- IN ALL ROOMS HAVING FINISH, FURR AROUND ALL MECHANICAL, ELECTRICAL AND STRUCTURAL WORK WHICH PROJECTS BEYOND THE FACE OF THE WALL AND CEILING. FLOOR PLAN DIMENSIONS ARE FROM FACE OF EXISTING GYP. BD. TO FACE OF STUD OF NEW, UNLESS OTHERWISE NOTED. DIMENSIONS NOT SHOWN SHALL BE DETERMINED FROM EXISTING FIXED COMPONENTS (i.e. WINDOWS, COLUMNS, EXISTING WALLS TO REMAIN, ETC.).
- CONTRACTOR TO REPAIR EXISTING BUILDING WHERE DAMAGED DUE TO NEW CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE SUCH BARRICADE AS NECESSARY FOR PROTECTION OF PEDESTRIANS FROM CONSTRUCTION WORK - TYPICAL.
- SALVAGE AND REUSE ALL EXISTING DOORS AS NOTED.
- ALL EXISTING MATERIAL THAT IS REUSED SHALL BE REPAIRED, REWORKED AND PUT UP IN FIRST CLASS CONDITION PRIOR TO REUSE. ANY EXISTING MILLWORK (INCLUDING DOORS) SHALL BE TOUCHED-UP OR REFINISHED AS NECESSARY FOR A LIKE-NEW APPEARANCE.
- OWNER TO RETAIN ALL MATERIAL AND ITEMS NOT REUSED IN NEW CONSTRUCTION. CONTRACTOR TO REMOVE ANY EXISTING NAILS, HOOKS, ETC. PATCH, REPAIR AND PAINT WALLS (TEXTURE TO MATCH EXISTING THROUGHOUT) AS REQUIRED FOR A UNIFORM FINISHED WALL SURFACE TO MATCH ADJACENT WALLS AND BRING PARTITIONS UP TO A FIRST CLASS CONDITION. PROPER TRANSITIONS SHALL BE MADE WHERE NEW DOORS OCCUR (AT FLOORS, WALLS, AND CEILINGS) UNLESS NOTED OTHERWISE.
- ALL NEW INTERIOR WALLS, GYP. BD. CEILING, AND DOOR FRAMES TO RECEIVE NEW PAINT, RE. FINISH SCHEDULE.
- NEW FLOORING, RE. FINISH SCHEDULE.
- ALL NEW DOORS ARE TO RECEIVE NEW HARDWARE TO MEET ADA REQUIREMENTS. ALL LATCH AND LOCK SETS SHALL BE LEVER TYPE AND ALL DOOR OPENINGS SHALL HAVE A 32" MIN. CLEAR BETWEEN DOOR STOPS.
- INFILL EXISTING DOOR / CASED OPENING AS SHOWN ON PLANS.
- GYP. BD. WALL EXPANSION JOINTS SHOULD BE AT 20' MAX SPACING.
- PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC SHOWN ON DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC TO FIT WITHIN THE SPACE ALLOWED BY EXISTING CONDITIONS.
- CONTRACTOR TO REPAIR ANY DAMAGED TO EXISTING PEMB ROLLED INSULATION DURING CONSTRUCTION.
- EXISTING DOOR CONTACTS, CARD READERS, AND OTHER ACCESS CONTROLS TO REMAIN. ALL ASSOCIATED CABLING SHALL REMAIN AND/OR BE RE-FED AS NECESSARY TO MAINTAIN CURRENT SYSTEM FUNCTIONALITY.
- ALL DEVICES, CONDUIT, AND CIRCUIT LOCATED IN AREAS OF DEMOLITION SHALL BE REMOVED BACK TO THE NEAREST J-BOX OUTSIDE AREA OF RENOVATION, OR BACK TO ORIGINATING ELECTRIC PANEL. ANY EXISTING CIRCUITS REQUIRING PARTIAL DEMOLITION SHALL BE MODIFIED AND/OR EXTENDED AS REQUIRED TO ENSURE CONTINUED FUNCTIONALITY OF EXISTING DEVICES TO REMAIN.

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Oklahoma City

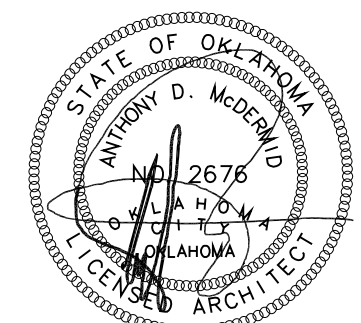
Oklahoma 73102



V.405.232.8787

www.tapokc.com

ARCHITECT'S
SEAL



01/15/2026

PROJECT

CITY OF MOORE
SIGN SHOP/BREAKROOM
632 VERMEER DRIVE
MOORE, OKLAHOMA 73160



ISSUES
REVISIONS

ISSUE FOR BIDDING
01/15/2026
ADDENDA 01
02/02/2026

SHEET
TITLE

SIGN SHOP
DIMENSIONED
FLOOR PLAN

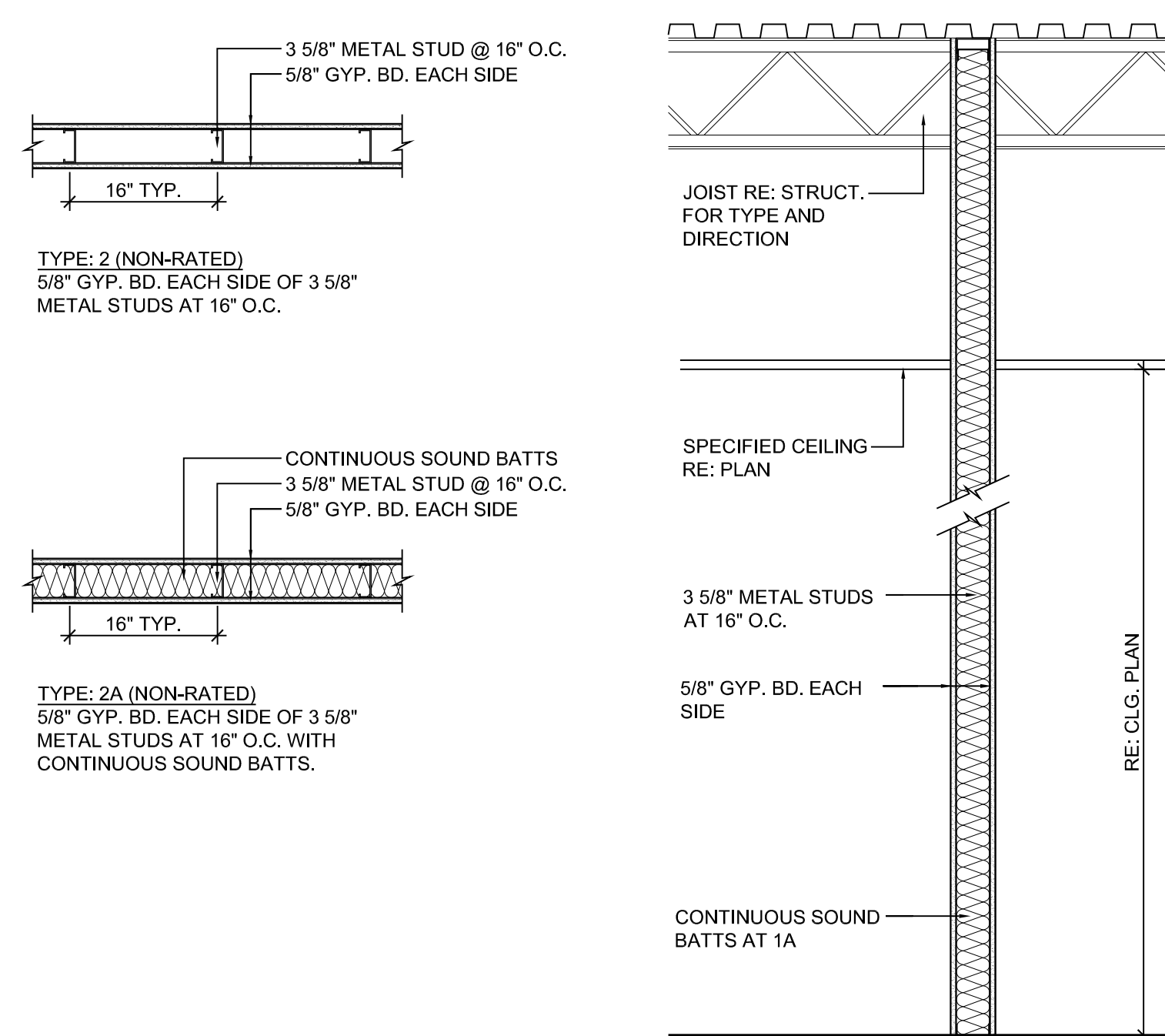
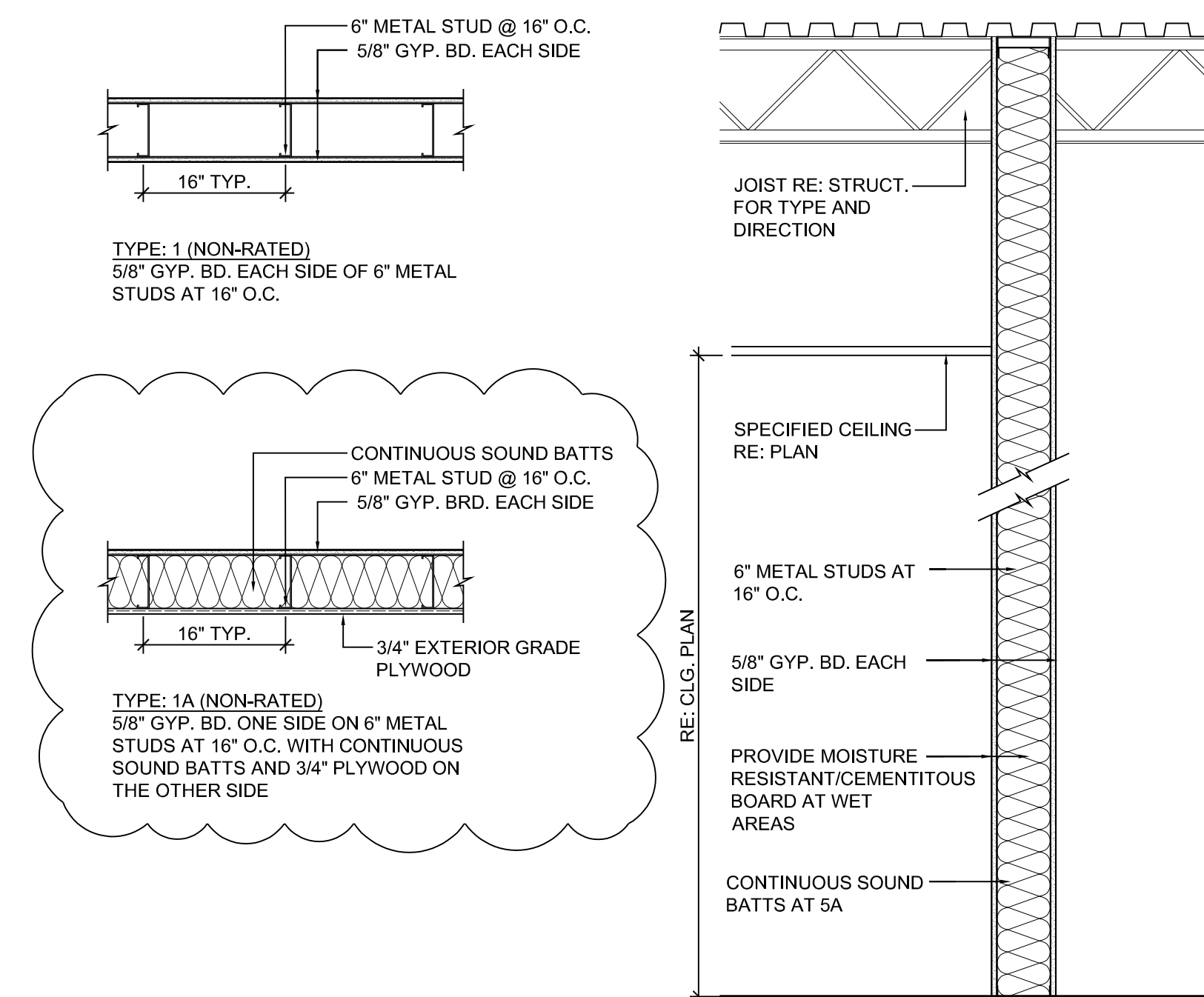
SHEET
NUMBER

A210

PROJECT
NUMBER

2516

All drawings and written materials herein constitute original work of TAParchitecture and may only be duplicated with their written consent.



GENERAL NOTES:

PROVIDE SPECIFIED MOISTURE RESISTANT GYPSUM BOARD/CEMENTITIOUS BOARD AT ALL WET-WALL AREAS.

PROVIDE CONTINUOUS SOUND BATTS AT ALL REST ROOM PARTITIONS.

BRACE ALL PARTITIONS (NOT DESIGNATED TO EXTEND TO DECK) TO STRUCTURE AT 48" O.C. MIN.

PROVIDE SPECIFIED BATT INSULATION AT ALL EXTERIOR WALLS. INSULATION SHALL EXTEND FROM F.F. TO BTM. OF ROOF DECK.

PROVIDE SPECIFIED GYPSUM BOARD CONTROL JOINTS EVERY 30'-0" OF CONTINUOUS WALL RUN MIN

PROVIDE SOLID BLOCKING PER SPECIFICATIONS FOR ALL WALL MOUNTED ACCESSORIES.

REFER TO THE CURRENT EDITION OF THE UNDERWRITERS LABORATORIES INC. FIRE RESISTANCE DIRECTORY FOR ALL UL -NUMBERS REFERENCED ON PLANS.

EXTEND GYPSUM BOARD 6" ABOVE FINISHED CEILING AT ALL PARTITIONS NOT DESIGNATED TO
EXTEND TO DECK.

ALL RATED WALLS TO COMPLY WITH APPROPRIATED UL NUMBER AND SHALL BE SEALED AT TOP, BOTTOM AS WELL AS AT ALL PENETRATIONS.

DETAIL A: PROVIDE A 2 1/2" DEEP, 22 GAUGE STEEL, U-SHAPED DEFLECTION CHANNEL AT ALL WALLS DESIGNATED TO EXTEND TO DECK. DEFLECTION CHANNEL TO MAINTAIN A 1 1/2" GAP BETWEEN TOP OF CEILING RUNNER AND THE TOP OF THE DEFLECTION CHANNEL. CEILING RUNNER IS NOT FASTENED TO THE DEFLECTION CHANNEL.

ALL RATED SYSTEMS SHALL COMPLY WITH THE LATEST UNDERWRITES LABORATORIES INC. (UL) FIRE RESISTANCE DIRECTORY.

415 Broadway

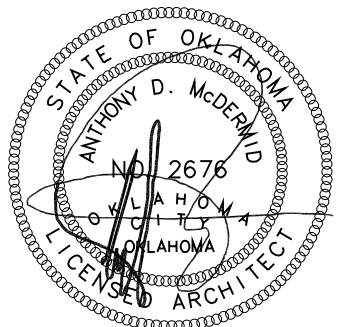
Oklahoma City

Oklahoma 73102



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ARCHITECT'S
REAL

01/15/2026

PROJECT

CITY OF MOORE
SIGN SHOP/BREAKROOM
632 VERMEER DRIVE
MOORE, OKLAHOMA 73160

ISSUES
REVISIONS

ISSUE FOR BIDDING
01/15/2026

ADDENDA 01
02/02/2026

HEET
ITLE

PARTITION TYPES

HEET
UMBER

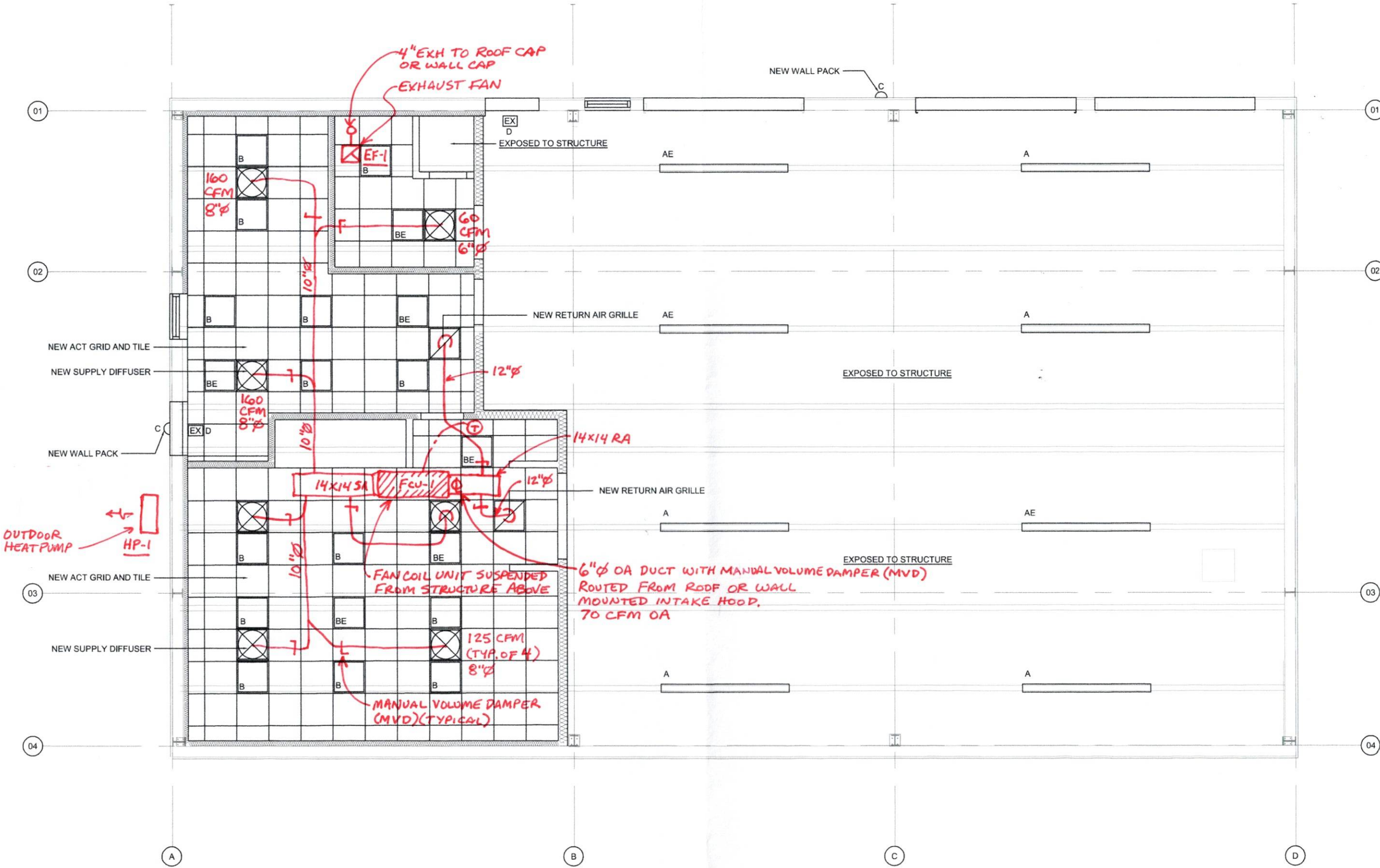
G310

PROJECT
NUMBER

2516

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Vermeer Sign Shop Mechanical Basis of Design



RECEPTACLES

- COUNTERTOP MOUNT (MIN. 4" ABOVE BACKSPLASH)
- DUPLEX F
- DUPLEX F
- GFCI (GR INTERRUI
- QUADRU
- SPECIALT

ELECTRICAL LEGEND

- SURFACE
- S.D. SMOKE D
- LIGHT FIX
- LIGHT FIX
- RECESSE
- DIRECTIC
- LIGHT FIX
- WALL SCI
- EXHAUST
- UNDERC
- FLOOD/SI
- GARAGE
- CEILING F

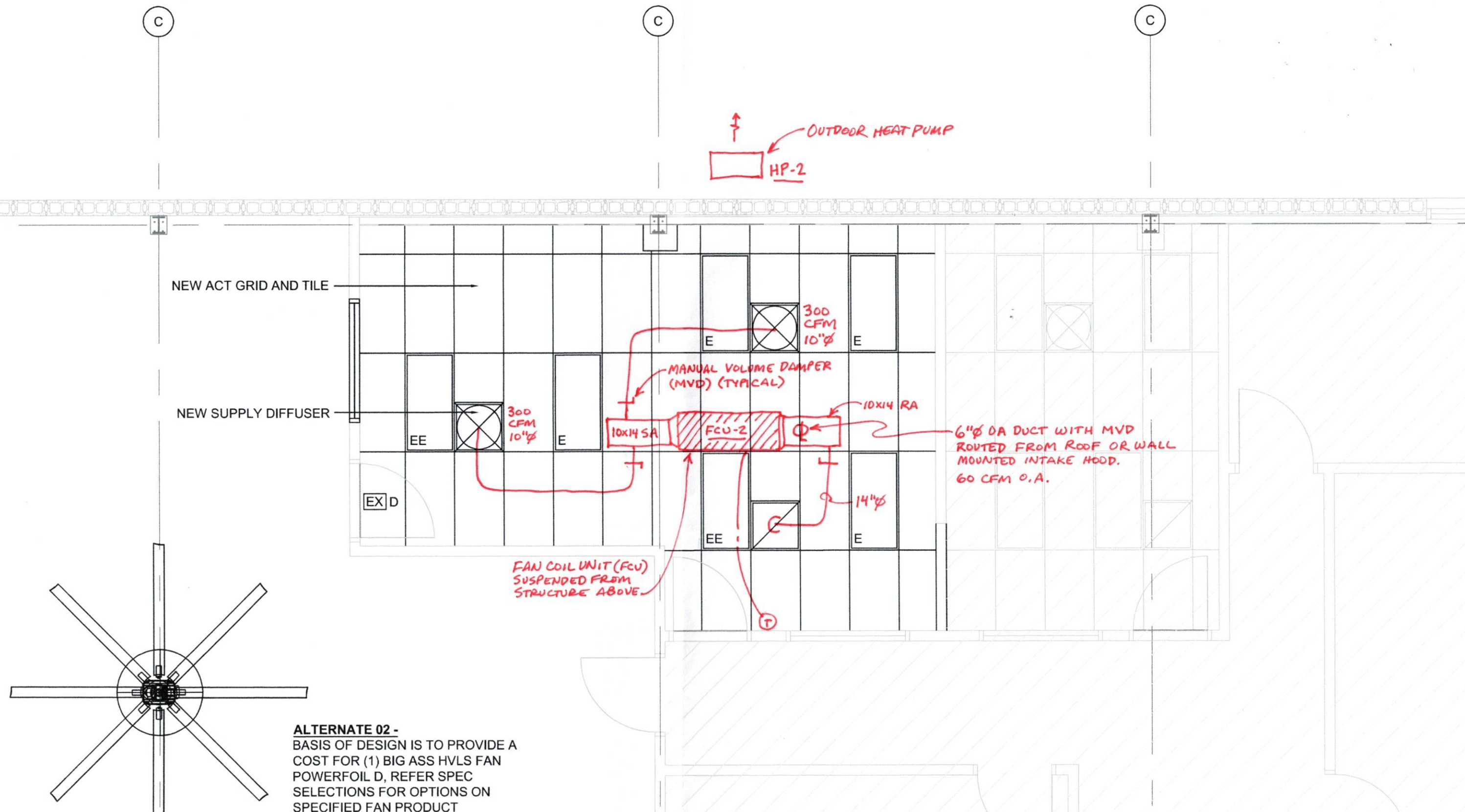
SWITCHES

- SINGLE W
- DIMMER S
- 3-WAY W

GENERAL NOTES

- ELECTRICAL SY BY A LICENSED ACCORDANCE V
- ALL ELECTRICAL
- CONTRACTOR T W/ OWNER ON F APPLIANCES AN
- CONTRACTOR T W/ OWNER ON F ON THE COUNT
- CONTRACTOR T W/ MECHANICAL POWER TO ALL
- CONTRACTOR T EQUIPMENT INS OUTLETS IN ME
- ALL EXTERIOR I TO BE EXTERIOR

Streets Breakroom Mechanical Basis of Design



SPLIT SYSTEM HEAT PUMPS																											
TAG	SERVES	DESCRIPTION	REFRIG	INDOOR UNIT							OUTDOOR UNIT										PIPING			ELECTRICAL			NOTES
				CFM	MIN. OA CFM	DIMENSIONS (LxWxH)	MOTOR (WATTS)	MOUNTING	WEIGHT (LBS)	MITSUBISHI MODEL	COOLING				HEATING				WEIGHT (LBS)	MITSUBISHI MODEL	REFRIG GAS	REFRIG LIQUID	COND DRAIN	ELECTRICAL			
											COOLING CAPACITY RANGE (BTU/HR)	SEER2	EAT DB/WB	AMBIENT TEMP	HEATING CAPACITY RANGE (BTU/HR)	HSPF2	EAT DB/WB	AMBIENT TEMP						MCA	MOCP	VOLTS-PHASE-HERTZ	
FCU-1 / HP-1	SIGN SHOP OFFICES	MULTI-POSITION SPLIT HEAT PUMP	R-454B	875	70	54"x21"x21"	396	HORIZONTAL	141	PVA-A030AA7	10,000 - 30,000	19.4	80 / 67	95.0	12,000 - 34,000	8.9 BTUH/W	70 / 60	47	153	PUZ-A30NHA7	5/8"	3/8"	3/4"	19	26	208V/1PH/60Hz	1 - 7
FCU-2 / HP-2	STREETS BREAKROOM	MULTI-POSITION SPLIT HEAT PUMP	R-454B	600	60	50"x17"x21"	396	HORIZONTAL	113	PVA-A018AA7	7,000 - 18,000	20.3	80 / 67	95.0	7,700 - 23,000	9.0 BTUH/W	70 / 60	47	100	PUZ-A18NKA7	5/8"	3/8"	3/4"	11	28	208V/1PH/60Hz	1 - 7

- NOTES:
1. PROVIDE INVERTER-DRIVEN COMPRESSORS FOR VARIABLE CAPACITY.
 2. PROVIDE WALL-MOUNTED PROGRAMMABLE THERMOSTAT CONTROL. LOOSE REMOTE CONTROL IS NOT ACCEPTABLE.
 3. ROUTE INSULATED COPPER CONDENSATE DRAIN CONCEALED ABOVE CEILING OR WITHIN WALLS TO FLOOR SINK OR MOP SINK AND TERMINATE WITH 1" AIR GAP. SLOPE AT 1/8" PER FOOT MINIMUM. CONDENSATE MAY SPILL ON GRADE (NOT PAVEMENT) WITH PRIOR APPROVAL OF ARCHITECT/ENGINEER.
 4. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES FOR INDOOR AND OUTDOOR UNITS.
 5. ROUTE REFRIGERANT PIPING AND CONTROL & POWER WIRING BETWEEN INDOOR AND OUTDOOR UNITS PER MFR RECOMMENDATIONS. ROUTE WITHIN WALLS AND ABOVE CEILINGS WHERE PRACTICAL.
 6. MAIN POWER CONNECTION IS TO OUTDOOR UNIT. INDOOR UNIT POWER IS FED FROM OUTDOOR UNIT VIA FIELD-PROVIDED WIRING.
 7. PROVIDE INTEGRAL FILTER RACK WITH 1" THICK, MERV 8 FILTER.
 8. MOUNT OUTDOOR HEAT PUMP UNIT ON 12" TALL FACTORY ACCESSORY STAND (MODEL QSMS1201M OR EQUIVALENT).



COOK

GEMINI

Ceiling Fans 100 Series

STANDARD CONSTRUCTION FEATURES:

Forward curved injection molded polypropylene fan wheel -
Injection molded flame resistant fan housing with round outlet duct
- 22 ga. galvanized steel inlet box - Isolation mounted motor,
mounted to one piece galvanized stamped steel integral motor
mount/inlet - Permanently lubricated 2-speed motor with built-in
thermal overload protection and disconnect plug - Field wiring
compartment with receptacle - Adjustable prepunched mounting
bracket - White, high impact styrene injection molded grille -
Shipped in ISTA certified transit tested packaging.

Performance

Qty	Catalog Number	Flow (CFM)	SP (inwg)	Nominal RPM	Input Watts	Speed Control
1	GC-146	75	.350	882	33	FSC

Altitude (ft): 1100 Temperature (F): 70

Motor Information

Volts/Ph/Hz	Nameplate Amps
115/1/60	.313

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA	dBA	Sones
50	51	53	50	44	38	32	23	51	39	1.5

- Distance from Sound source 5 ft

Accessories:

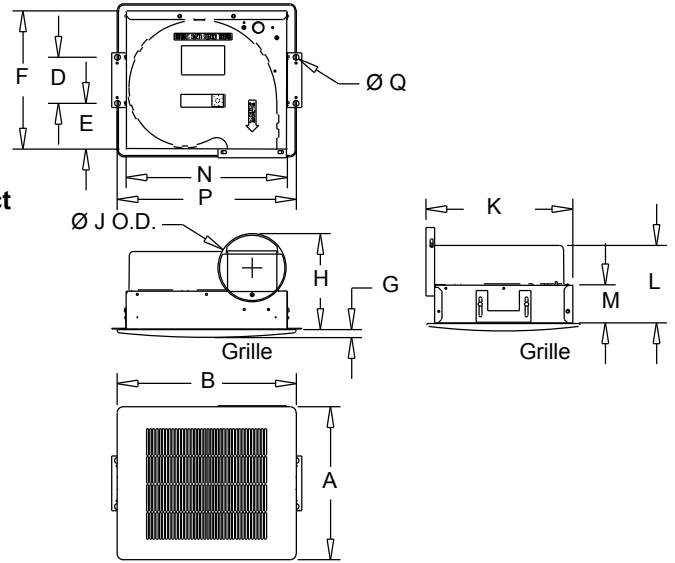
DISCONNECT NEMA 1 PRE-WIRED - GEM
FAN SPEED CONTROLLER 5 AMP 120 VOLT
WHITE PLASTIC GRILLE
INTEGRAL BD DAMPER
GEMINI ISOLATOR KIT - ISOLATORS



MARK: EF-1

PROJECT: Moore - Sign Shop

DATE: 02/3/2026



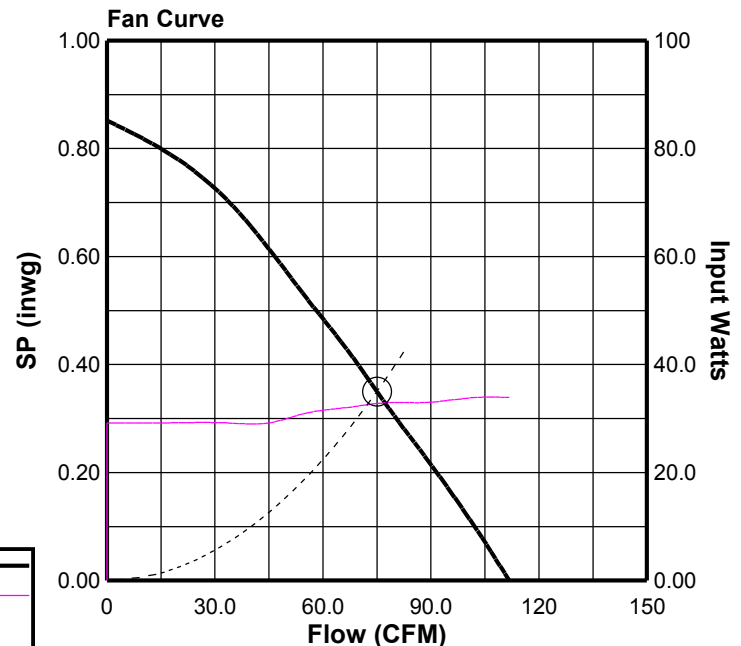
Dimensions (inches)

A Plastic	13-1/4	M	3-1/4
B Plastic	15-1/2	N	14
D	4	P	15-1/2
E	4	Q	1/2
F	12		
G	5/8		
H	8-3/8		
J O.D.	5-15/16		
K	12-3/4		
L	6-11/16		

NOTE: Accessories may affect dimensions shown.

Weight(lb)***	Shipping	20	Unit	16
---------------	----------	----	------	----

***Includes fan, motor & accessories.



Fan Curve Legend

CFM vs SP	—
CFM vs Watts	- - -
Point of Operation	○
System Curve	- - - - -



COOK

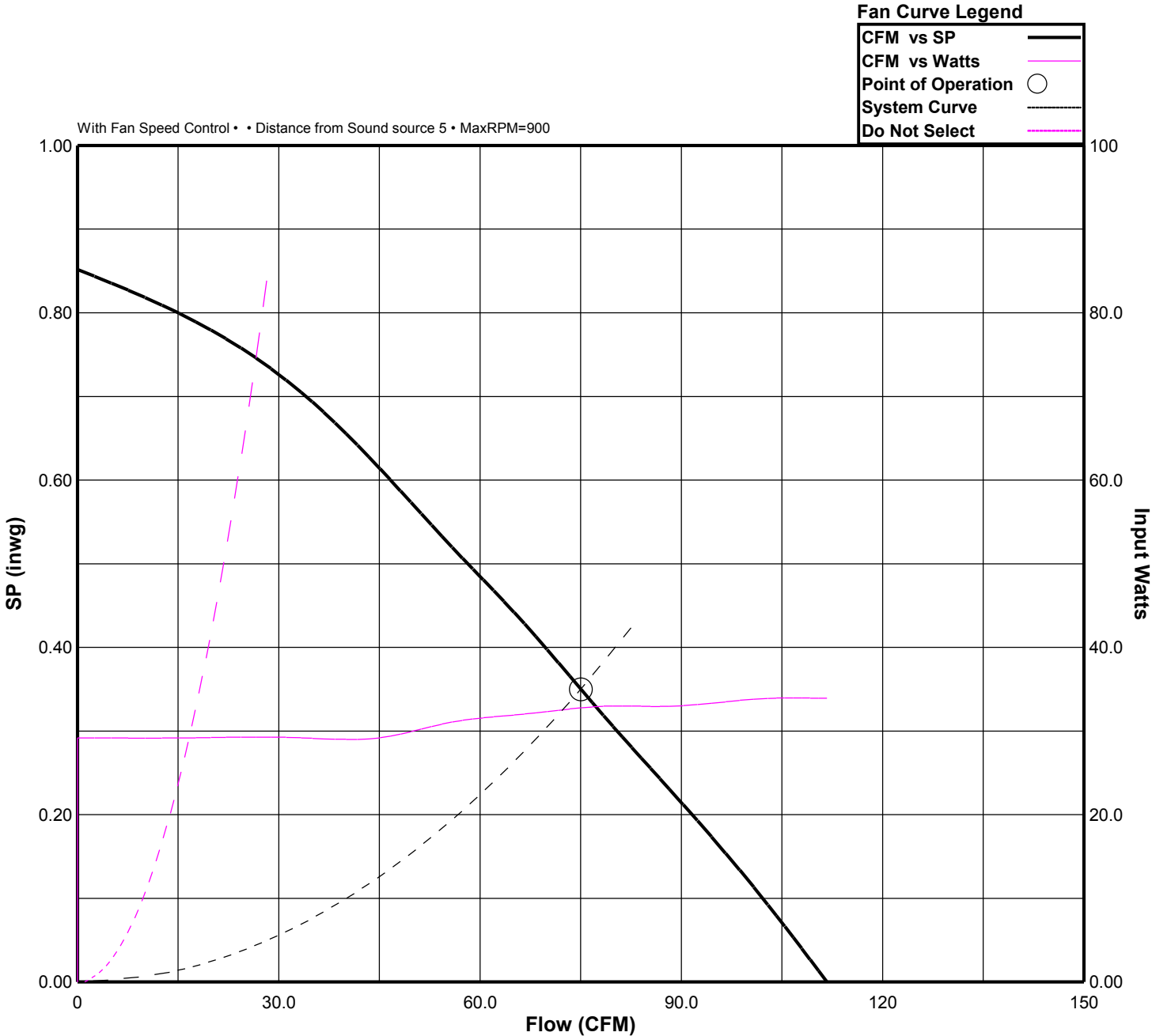


MARK: EF-1
PROJECT: Moore - Sign Shop
DATE: 02/3/2026

GEMINI

Performance

Catalog Number	Flow (CFM)	SP (inwg)	Nominal RPM	Input Watts	OVEL (FPM)	TSPD (FPM)	SE	Temp (°F)	ALT (ft)
GC-146	75	.350	882	33	383	1762	31%	70	1100





COOK

GEMINI

MARK: EF-1

PROJECT: Moore - Sign Shop

DATE: 02/3/2026

AMCA License Information



Loren Cook Company certifies that the GC-146 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Performance certified is for installation type B: free inlet, ducted outlet. Speed (RPM/RPS) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of inlet grill. The sound ratings shown are loudness values in spherical sones at 5 ft. in a spherical free field calculated per AMCA Standard 301. Values shown are for Installation type B: free inlet spherical sone levels. The AMCA International licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.

The sound power level ratings shown are in decibels, referred to 10(-12) watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and LwiA sound power levels for installation type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. The dBA levels shown have been calculated for a distance of 5 ft in a hemispherical free field. The AMCA Certified Ratings Seal applies to sone ratings only. Octave Band, LwA and dBA levels are not AMCA International licensed.



FSC

Fan Speed Controls

STANDARD CONSTRUCTION FEATURES:

PRODUCT DESCRIPTION - Through the "Quadrac" integrated semi-conductor device it is now possible to offer this system with many advantages. Fewer semi-conductor parts mean greater reliability and the passivation process used in the manufacture of the semi-conductor insures long life.

Printed circuit construction eliminates wiring difficulties and guarantees workmanship.

All of these factors serve to offer the most important of all features - quality.

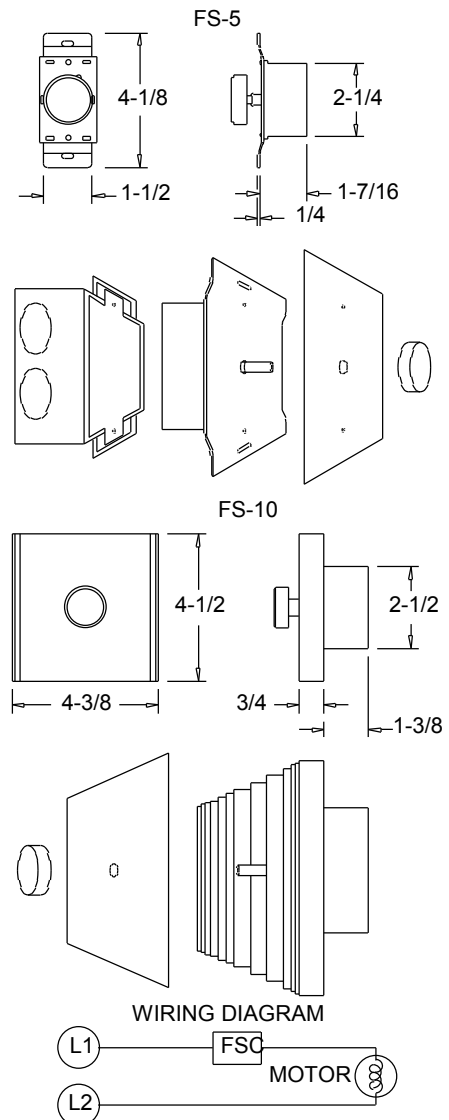
SPEED CONTROL - Positive Off/On action in the control dial. Speed range set to the customer's requirements. **CONTROL RATING** - 120 volts, 60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP, 15 AMP). 220/240 volt, 50/60 cycles, 1 phase. Maximum ambient temperature - 120 degree F (5 AMP, 10 AMP). 220/240 volt model not UL listed. Fan cannot have UL listing if furnished with prewired 220/240 volt FSC. 277 volt, 60 cycles, 1 phase.

Maximum ambient temperature - 120 degree F (5 AMP). **WARNING** - Power must be turned off before installing this unit. **STANDARD INSTALLATION** - Fits any standard single gang box.

Turn off power and connect the two wires on the control to the two switch wires in the usual manner. The connection box is not supplied. **SPECIAL FEATURES** - Complete range control, solid state "Quadrac" integrated circuitry, solid state construction for long reliable operating life, saves on electric bills.

Dimensions (inches)

Mark	Qty	Description
EF-1	1	FSC 5 AMP 120 VOLT



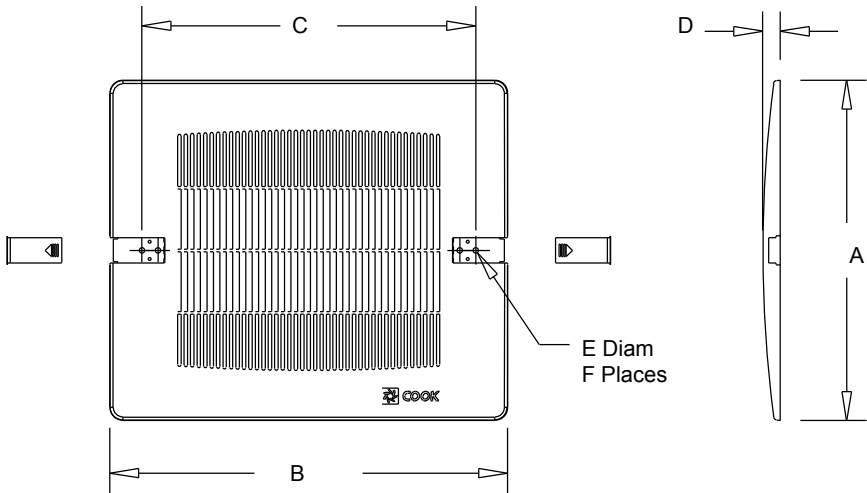


COOK

PROJECT: Moore - Sign Shop

DATE: 02/3/2026

GEMINI
PLASTIC GRILLE



Dimensions (inches)

Mark	Qty	Description	A	B	C	D	E Diam	F Places
EF-1	1	WHITE PLASTIC GRILLE	13-1/4	15-1/2	13	1/4	1/4	4



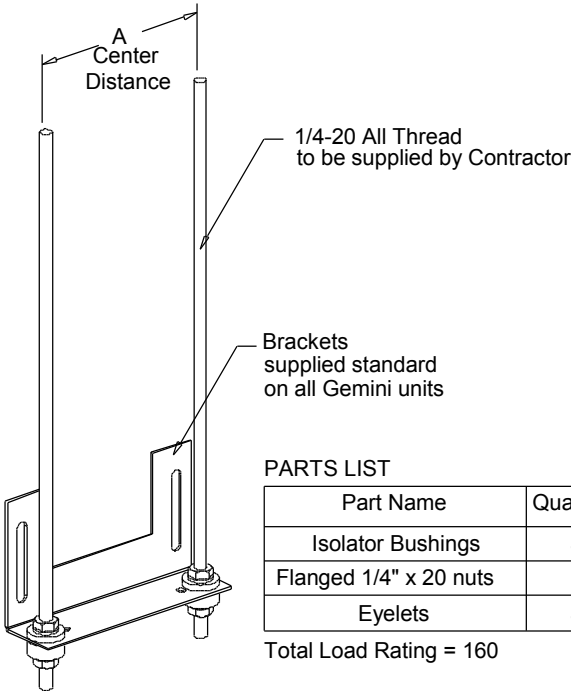
COOK

PROJECT: Moore - Sign Shop

DATE: 02/3/2026

GEMINI

Gemini Isolator Kit
GIK
Rubber In Shear



Dimensions (inches)

Mark	Qty	Description	Part #	A
EF-1	1	GEMINI ISOLATO	GIK	4

PVA-A30AA7 & PUZ-A30NHA7
30,000 BTU/H MULTI-POSITION AIR HANDLER
30,000 BTU/H HEAT PUMP UNIVERSAL OUTDOOR



Job Name:

System Reference:

Date:

FCU-1 Vermeer Sign Shop

Indoor Unit.....PVA-A30AA7

Outdoor Unit.....PUZ-A30NHA7



INDOOR UNIT FEATURES

- Ducted air handler provides a solution to cool and heat large zones
- Highly efficient totally enclosed ECM motor
- Selectable external static pressure: 0.30, 0.50 and 0.80 in.WG with 3 fan speeds at each static setting
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency
- Positive pressure cabinet with air leakage of less than 1.0% at 1.0 in.WG
- Unique blow through design allows simple coil cleaning when the blower is removed
- Multi-position installation: horizontal (left or right), vertical (up or down). For downflow configurations, the CMA-1 is recommended for proper management of condensate to prevent water blow-off in certain conditions
- Optional electric heat kit for additional heat capacity
- Optional humidifier control and ERV control
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Pre-charged with refrigerant volume for piping length up to 70 ft
- Low ambient cooling down to 0°F providing 100% capacity
- 24-hour continuous operation (cooling mode)
- High pressure protection
- Fast restart
- Superior energy and operational efficiency
- Seacoast protection*
 - External Outer Panel: Phosphate coating + Acrylic-Enamel coating
 - Fan Motor Support: Epoxy resin coating (at edge face)
 - Separator Assembly Valve Bed: Epoxy resin coating (at edge face)
 - Blue Fin treatment is an anti-corrosion treatment that is applied to the Heat exchanger coil to protect it against airborne contaminants.
 - Heat exchanger coil and base panel rated for 2,000 hours in accordance with ASTM B117 testing

*Seacoast protection standard from 2022 production

SPECIFICATIONS: PVA-A30AA7 & PUZ-A30NHA7

Cooling at 95°F ¹	Maximum Capacity	BTU/H	30,000
	Rated Capacity	BTU/H	30,000
	Minimum Capacity	BTU/H	10,000
	Maximum Power Input	W	3,000
	Rated Power Input	W	3,000
	Moisture Removal	Pints/h	5.4
	Sensible Heat Factor		0.74
Heating at 47°F ²	Power Factor [208V / 230V]	%	93.2 / 93.2
	Maximum Capacity	BTU/H	34,000
	Rated Capacity	BTU/H	32,000
	Minimum Capacity	BTU/H	12,000
	Maximum Power Input	W	2,820
	Rated Power Input	W	2,640
Heating at 17°F ³	Power Factor [208V / 230V]	%	96.8 / 96.8
	Maximum Capacity	BTU/H	20,700
	Rated Capacity	BTU/H	18,000
	Maximum Power Input	W	2,230
	Rated Power Input	W	2,110
Heating at 5°F ⁴	Maximum Capacity	BTU/H	17,200
	Maximum Power Input	W	2,000
Efficiency	SEER2		19.4
	EER2 ¹		9.9
	HSPF2 [I/V]		8.9
	COP at 47°F ²		3.54
	COP at 17°F at Maximum Capacity ³		2.73
Electrical	COP at 5°F at Maximum Capacity ⁴		2.52
	Voltage, Phase, Frequency		208/230, 1, 60
	Guaranteed Voltage Range	V AC	198 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	25
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Power Supply		Indoor unit is powered by the outdoor unit
	MCA	A	4.13
Indoor Unit	Fan Motor Full Load Amperage	A	3.3
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	613–744–875
	Airflow Rate at Heating, Dry	CFM	613–744–875
	Sound Pressure Level [Cooling]	dB[A]	30–34–38
	Sound Pressure Level [Heating]	dB[A]	30–34–38
	External Static Pressure	in.WG	0.30–0.5–0.8
	Drain Pipe Size	In. [mm]	3/4 FPT [19.05]
	Coating on Heat Exchanger		—
	External Finish Color		Galvanized steel cabinet-Powder coated Slate Gray
	Unit Dimensions	W x D x H: In. [mm]	21 x 21-5/8 x 54-1/4 [534 x 548 x 1,378]
	Package Dimensions	W x D x H: In. [mm]	13-7/16 x 34-11/16 x 53-3/16 [340 x 880 x 1,350]
	Unit Weight	Lbs. [kg]	141 [64]
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 72 WB / 66 DB, 61 WB
	Heating Intake Air Temp [Maximum / Minimum]	°F	77 DB / 59 DB

NOTES:

AHRI Rated Conditions

(Rated data is determined at a fixed compressor speed)

¹Cooling (Indoor // Outdoor)

°F 80 DB, 67 WB // 95 DB, 75 WB

²Heating at 47°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 47 DB, 43 WB

³Heating at 17°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 17 DB, 15 WB

Conditions

⁴Heating at 5°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 5 DB, 4 WB

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

- Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
 - » Wind baffles required to operate below 23°F DB in cooling mode.
 - » Heat pump system with wind baffle: 0°F - 115°F.
 - » Refer to wind baffle documentation for further information.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

- System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

***Blue Fin Coating Standard from 2022 production:

- PU(Y/Z)-A(12/18)NKA7 - Beginning with serial number 12U*****
- PU(Y/Z)-A(24/30/36/42)NKA7 - Beginning with serial number 12U*****

SPECIFICATIONS: PVA-A30AA7 & PUZ-A30NHA7

Outdoor Unit	MCA	A	19.0
	MOCP	A	26
	Fan Motor Full Load Amperage	A	0.4
	Fan Motor Output	W	86
	Airflow Rate [Cooling / Heating]	CFM	1940 / 1940
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger		Blue Fin Coating***
	Sound Pressure Level, Cooling ¹	dB(A)	47
	Sound Pressure Level, Heating ²	dB(A)	48
	Compressor Type		INVERTER-driven twin rotary
	Compressor Model		SNB172FWHM1
	Compressor Rated Load Amps	A	7
	Compressor Locked Rotor Amps	A	11.0
	Compressor Oil [Type // Charge]	oz.	FV50S // 23
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		N/A
	Unit Dimensions	W x D x H: In. [mm]	37-13/32 x 13 (+1-3/16) x 37-1/8 [950 x 330 (+30) x 943]
	Package Dimensions	W x D x H: In. [mm]	40-15/16 x 17-11/16 x 40-11/16 [1040 x 450 x 1033]
	Unit Weight	Lbs. [kg]	153 [69]
Outdoor Unit Operating Temperature Range	Cooling Air Temp [Maximum / Minimum]*	°F	115 DB / 0 DB
	Heating Air Temp [Maximum / Minimum]	°F	70 DB, 59 WB / -4 DB, -4 WB
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-8 / -4
Refrigerant	Type		R410A
	Pre-Charged Refrigerant Amount	Lbs, oz	7.0, 11.0
	Maximum Pre-Charged Piping Length	Ft. [m]	70.0 [20.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.7 [50]
Piping	Gas Pipe Size O.D. [Flared]	In.[mm]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]	In.[mm]	3/8 [9.52]
	Maximum Piping Length	Ft. [m]	165 [50]
	Maximum Height Difference	Ft. [m]	100 [30]
	Maximum Number of Bends		15

NOTES:

AHRI Rated Conditions
(Rated data is determined at a fixed compressor speed)

¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
² Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
³ Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB

Conditions

⁴ Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB
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*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

- Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
 - » Wind baffles required to operate below 23°F DB in cooling mode.
 - » Heat pump system with wind baffle: 0°F - 115°F.
 - » Refer to wind baffle documentation for further information.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

- System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

***Blue Fin Coating Standard from 2022 production:

- PU(Y/Z)-A(12/18)NKA7 - Beginning with serial number 12U*****
- PU(Y/Z)-A(24/30/36/42)NKA7 - Beginning with serial number 12U*****

INDOOR UNIT ACCESSORIES: PVA-A30AA7

Control Interface	3-Pin Connector	PAC-715AD
	Airzone ZBS Wired Blueface Principal Controller White	AZZBSBLUEFACECB
	Airzone ZBS Wired Blueface Principal Controller White	AZZBSBLUEZEROCB
	Airzone ZBS Wired Lite Controller White	AZZBSLITECB
	Airzone ZBS Wireless Lite Controller White	AZZBSLITERB
	Airzone ZBS Wireless Think Controller White	AZZBSTHINKRB
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	Connector cable for remote display	PAC-SA88HA-EP
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Remote Operation Adapter†	PAC-SF40RM-E
	Thermostat Interface	PAC-US444CN-1
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
Remote Sensor	Flush Mount Remote Temperature Sensor	PAC-USSEN002-FM-1
	Flush Mount Temperature Sensor	PAC-USSEN001-FM-1
	Remote Temperature Sensor	PAC-SE41TS-E
	Wireless temperature and humidity sensor for kumo cloud®	PAC-USWHS003-TH-1
Wired Remote Controller	Deluxe Wired MA Remote Controller†	PAR-40MAAU
	Simple Ductless Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller†	PAC-YT53CRAU-J
	Touch MA Controller†	PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	MHK2
	Lockdown bracket for remote controller	RCMKP1CB
	Wireless MA Receiver	PAR-FA32MA-W
	Wireless MA Remote Controller	PAR-FL32MA-E
Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
	Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor	X87-835
	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	COMBI
Control Wire	20/2PR, 1PR shielded + 1PR plenum wire for Airzone, 100 ft reel	CW2042S2-100
	20/2PR, shielded + 1PR plenum wire for Airzone, 500 ft reel	CW2042S2-500
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
Downflow Kit	Condensate Management Kit for downflow installation	CMA-1
Electric Heat Lockout	Electric Heat Lockout	ETC-211020-MIT
Electric Kit Heats	3kW Electric Heater	EH03-MPA-MB
	5kW Electric Heater	EH05-MPA-MB
	8kW Electric Heater	EH08-MPA-MB
Lineset	10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-10
	100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-100
	15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-15
	30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-30
	50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-50
	65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-65
Terminal Block	Separate Terminal Power Block	SPTB1

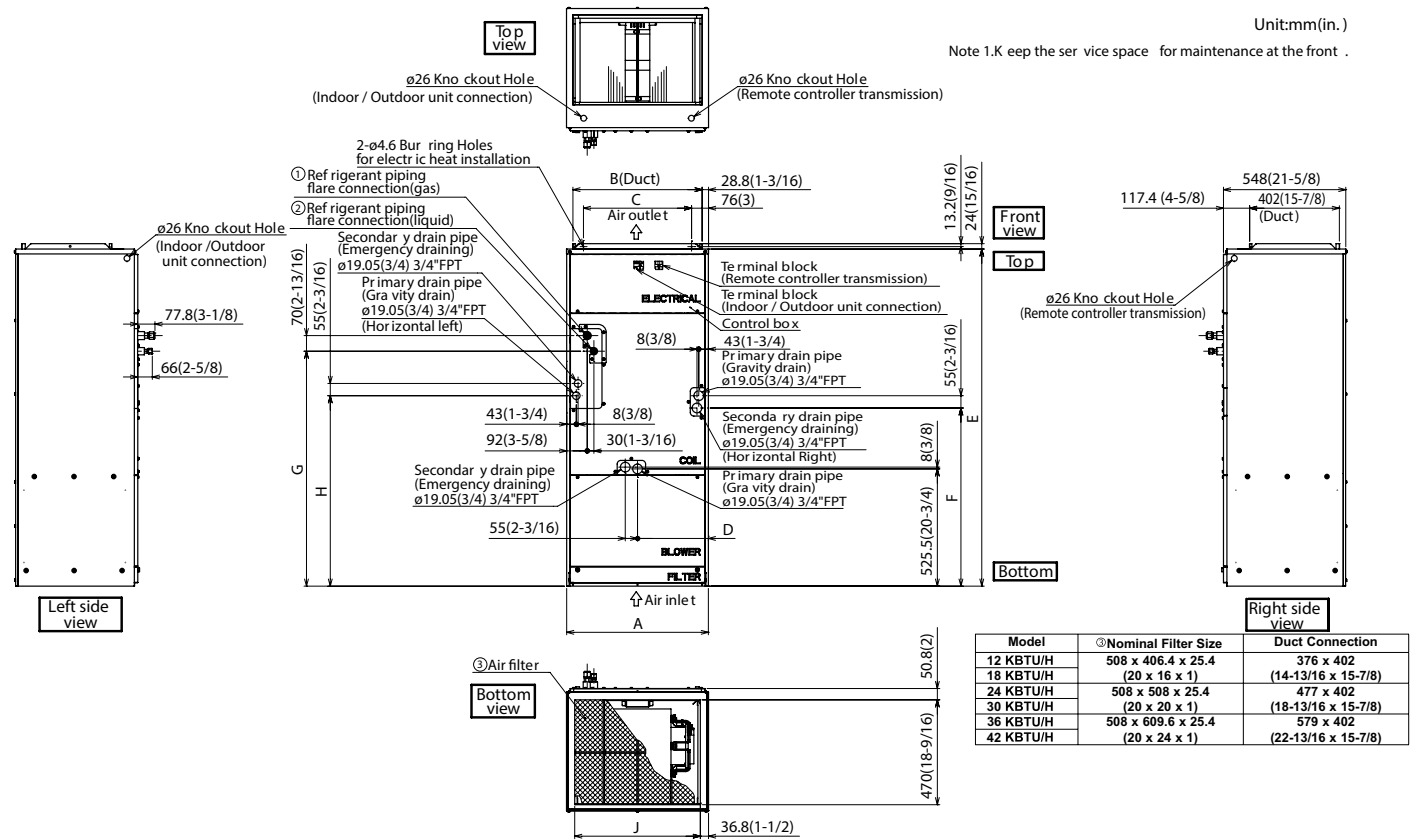
NOTES:

†PAC-SF40RM-E (Unable to use with wireless remote controller)

OUTDOOR UNIT ACCESSORIES: PUZ-A30NHA7

Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SG59SG-E
Centralized Drain Pan	Centralized Drain Pan	PAC-SG63DP-E
	Drain Pan	PAC-SG64DP-E
Control/Service Tool	Control/Service Tool	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	USB/UART Conversion Cable (Required for all laptop connection)	M21EC1397
Hail Guards	Hail Guard	HG-A6
M-NET Converter	M-NET Converter	PAC-SJ85MA-E
	M-NET Converter	PAC-SJ95MA-E
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
Mounting Pad	Condensing Unit Mounting Pad: 24" x 42" x 3"	ULTRILITE2
Stand	18" Single Fan Stand	QSMS1801M
	24" Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M
Wind Baffle	Front Wind Baffle	WB-PA5
	Rear Wind Baffle	WB-RE5
	Side Advanced Wind Baffle	WB-SD5

INDOOR UNIT DIMENSIONS: PVA-A30AA7



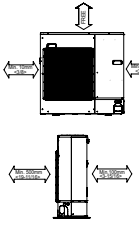
Model	Unit: mm (in.)									Unit: mm (in.)	
	A	B	C	D	E	F	G	H	J	① Gas Pipe	② Liquid Pipe
12 KBTU/H	432 (17)	376 (14-13/16)	281 (11-1/8)	224 (8-7/8)	1275 (50-1/4)	680 (26-3/16)	823 (32-7/16)	735.5 (29)	360 (14-3/16)	Φ 12.7 (1/2)	Φ 6.35 (1/4)
18 KBTU/H	534 (21)	477 (18-13/16)	382.6 (15-1/8)	266.5 (10-1/2)	1378 (54-1/4)	737 (29-1/16)	953.5 (37-9/16)	792 (31-3/16)	461 (18-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)
24 KBTU/H	534 (21)	477 (18-13/16)	382.6 (15-1/8)	266.5 (10-1/2)	1378 (54-1/4)	737 (29-1/16)	953.5 (37-9/16)	792 (31-3/16)	461 (18-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)
30 KBTU/H	635 (25)	579 (22-13/16)	484.6 (19-1/8)	317.5 (12-1/2)	1511 (59-1/2)	798.5 (31-7/16)	1053 (41-1/2)	853.5 (33-5/8)	563 (22-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)
36 KBTU/H	635 (25)	579 (22-13/16)	484.6 (19-1/8)	317.5 (12-1/2)	1511 (59-1/2)	798.5 (31-7/16)	1053 (41-1/2)	853.5 (33-5/8)	563 (22-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)
42 KBTU/H	635 (25)	579 (22-13/16)	484.6 (19-1/8)	317.5 (12-1/2)	1511 (59-1/2)	798.5 (31-7/16)	1053 (41-1/2)	853.5 (33-5/8)	563 (22-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)

OUTDOOR UNIT DIMENSIONS: PUZ-A30NHA7

Unit: mm<in>

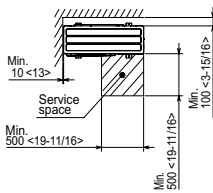
1 FREE SPACE (Around the unit)

The diagram below shows a basic example.
Explanation of particular details are given in the installation manuals etc.



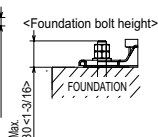
2 SERVICE SPACE

Dimensions of space needed for service access are shown in the below diagram.



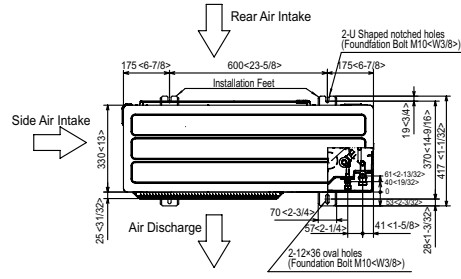
3 FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10<W3/8>) bolts. (Bolts and washers must be purchased locally.)



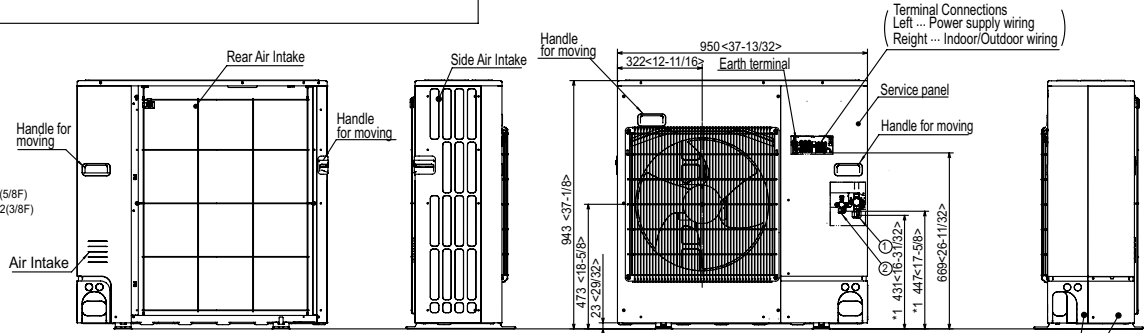
4 PIPING-WIRING DIRECTIONS

Piping and wiring connections can be made from 4 directions: FRONT, Right, Rear and Below.

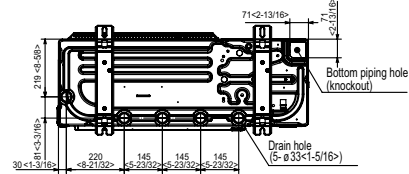
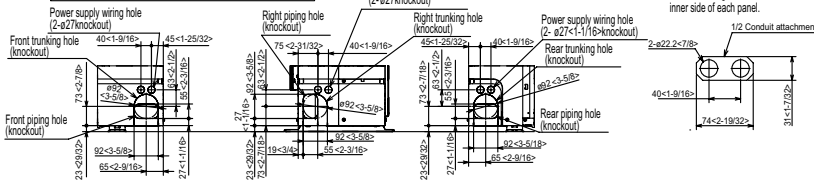


Example of Notes

- ① --- Refrigerant GAS pipe connection (FLARE) ø15.88(5/8F)
- ② --- Refrigerant LIQUID pipe connection (FLARE) ø9.52(3/8F)
- *1 --- Indication of STOP VALVE connection location.



Piping knockout Hole Details



1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 www.mehvac.com

FORM# PVA-A30AA7 & PUZ-A30NHA7 - 202310



PVA-A18AA7 & PUZ-A18NKA7
18,000 BTU/H MULTI-POSITION AIR HANDLER
18,000 BTU/H HEAT PUMP UNIVERSAL OUTDOOR



Job Name:

System Reference:

Date:

FCU-2 Streets Breakroom

Indoor Unit.....PVA-A18AA7

Outdoor Unit.....PUZ-A18NKA7



INDOOR UNIT FEATURES

- Ducted air handler provides a solution to cool and heat large zones
- Highly efficient totally enclosed ECM motor
- Selectable external static pressure: 0.30, 0.50 and 0.80 in.WG with 3 fan speeds at each static setting
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency
- Positive pressure cabinet with air leakage of less than 1.0% at 1.0 in.WG
- Unique blow through design allows simple coil cleaning when the blower is removed
- Multi-position installation: horizontal (left or right), vertical (up or down). For downflow configurations, the CMA-1 is recommended for proper management of condensate to prevent water blow-off in certain conditions
- Optional electric heat kit for additional heat capacity
- Optional humidifier control and ERV control
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Pre-charged with refrigerant volume for piping length up to 70 ft
- Low ambient cooling down to 0°F providing 100% capacity
- 24-hour continuous operation (cooling mode)
- High pressure protection
- Fast restart
- Superior energy and operational efficiency
- Seacoast protection*
 - External Outer Panel: Phosphate coating + Acrylic-Enamel coating
 - Fan Motor Support: Epoxy resin coating (at edge face)
 - Separator Assembly Valve Bed: Epoxy resin coating (at edge face)
 - Blue Fin treatment is an anti-corrosion treatment that is applied to the Heat exchanger coil to protect it against airborne contaminants.
 - Heat exchanger coil and base panel rated for 2,000 hours in accordance with ASTM B117 testing

*Seacoast protection standard from 2022 production

SPECIFICATIONS: PVA-A18AA7 & PUZ-A18NKA7

Cooling at 95°F ¹	Maximum Capacity	BTU/H	18,000
	Rated Capacity	BTU/H	18,000
	Minimum Capacity	BTU/H	7,000
	Maximum Power Input	W	1,570
	Rated Power Input	W	1,570
	Moisture Removal	Pints/h	2.4
	Sensible Heat Factor		0.76
	Power Factor [208V / 230V]	%	89.8 / 89.8
Heating at 47°F ²	Maximum Capacity	BTU/H	23,000
	Rated Capacity	BTU/H	19,000
	Minimum Capacity	BTU/H	7,700
	Maximum Power Input	W	2,030
	Rated Power Input	W	1,470
	Power Factor [208V / 230V]	%	96.2 / 96.2
Heating at 17°F ³	Maximum Capacity	BTU/H	14,700
	Rated Capacity	BTU/H	12,000
	Maximum Power Input	W	1,620
	Rated Power Input	W	1,520
Efficiency	SEER2		20.3
	EER2 ¹		11.4
	HSPF2 [I/V]		9.0
	COP at 47°F ²		3.78
	COP at 17°F at Maximum Capacity ³		2.66
	Electrical	Voltage, Phase, Frequency	
Guaranteed Voltage Range		V AC	198 - 253
Voltage: Indoor - Outdoor, S1-S2		V AC	208/230
Voltage: Indoor - Outdoor, S2-S3		V DC	24
Short-circuit Current Rating [SCCR]		kA	5
Recommended Fuse/Breaker Size (Outdoor)		A	15
Recommended Wire Size [Indoor - Outdoor]		AWG	14
Power Supply			Indoor unit is powered by the outdoor unit
Indoor Unit	MCA	A	3.0
	Fan Motor Full Load Amperage	A	2.4
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	515–625–735
	Airflow Rate at Heating, Dry	CFM	515–625–735
	Sound Pressure Level [Cooling]	dB[A]	28–33–36
	Sound Pressure Level [Heating]	dB[A]	28–33–36
	External Static Pressure	in.WG	0.30–0.5–0.8
	Drain Pipe Size	In. [mm]	3/4 FPT [19.05]
	Coating on Heat Exchanger		—
	External Finish Color		Galvanized steel cabinet-Powder coated Slate Gray
	Unit Dimensions	W x D x H: In. [mm]	17 x 21-5/8 x 50-1/4 [432 x 548 x 1,275]
	Package Dimensions	W x D x H: In. [mm]	13-7/16 x 34-11/16 x 45-5/16 [340 x 880 x 1,150]
	Unit Weight	Lbs. [kg]	113 [51]
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 72 WB / 66 DB, 61 WB
	Heating Intake Air Temp [Maximum / Minimum]	°F	77 DB / 59 DB

NOTES:

AHRI Rated Conditions	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
(Rated data is determined at a fixed compressor speed)	² Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
	³ Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB

Conditions	⁴ Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB
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*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

- » Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
- » Wind baffles required to operate below 23°F DB in cooling mode.
- » Heat pump system with wind baffle: 0°F - 115°F.
- » Refer to wind baffle documentation for further information.

• System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

***Blue Fin Coating Standard from 2022 production:

- PU(Y/Z)-A(12/18)NKA7 - Beginning with serial number 12U****
- PU(Y/Z)-A(24/30/36/42)NKA7 - Beginning with serial number 1ZU****

SPECIFICATIONS: PVA-A18AA7 & PUZ-A18NKA7

Outdoor Unit	MCA	A	11.0
	MOCP	A	28
	Fan Motor Full Load Amperage	A	0.5
	Fan Motor Output	W	46
	Airflow Rate [Cooling / Heating]	CFM	1590 / 1590
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger		Blue Fin Coating***
	Sound Pressure Level, Cooling ¹	dB(A)	44
	Sound Pressure Level, Heating ²	dB(A)	46
	Compressor Type		INVERTER-driven twin rotary
	Compressor Model		SNB130FQCMC-L1
	Compressor Rated Load Amps	A	7
	Compressor Locked Rotor Amps	A	12.0
	Compressor Oil [Type // Charge]	oz.	FV50S // 16
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		N/A
	Unit Dimensions	W x D x H: In. [mm]	31-13/16 (2+7/16) x 11-13/16 x 24-13/16 [809 (+62) x 300 x 630]
	Package Dimensions	W x D x H: In. [mm]	37-1/16 x 16-3/16 x 27-7/16 [941 x 411 x 697]
	Unit Weight	Lbs. [kg]	100 [45]
Outdoor Unit Operating Temperature Range	Cooling Air Temp [Maximum / Minimum]*	°F	115 DB / 0 DB
	Heating Air Temp [Maximum / Minimum]	°F	70 DB, 59 WB / 12 DB, 14 WB
	Heating Thermal Lock-out / Re-start Temperatures**	°F	8 / 12
Refrigerant	Type		R410A
	Pre-Charged Refrigerant Amount	Lbs, oz	4.0, 14.0
	Maximum Pre-Charged Piping Length	Ft. [m]	70.0 [21.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.2 [19]
Piping	Gas Pipe Size O.D. [Flared]	In.[mm]	1/2 [12.7]
	Liquid Pipe Size O.D. [Flared]	In.[mm]	1/4 [6.35]
	Maximum Piping Length	Ft. [m]	100 [30]
	Maximum Height Difference	Ft. [m]	100 [30]
	Maximum Number of Bends		15

NOTES:

AHRI Rated Conditions
(Rated data is determined at a fixed compressor speed)

¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
² Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
³ Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB

Conditions

⁴ Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB
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*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

- Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
 - » Wind baffles required to operate below 23°F DB in cooling mode.
 - » Heat pump system with wind baffle: 0°F - 115°F.
 - » Refer to wind baffle documentation for further information.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

- System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

***Blue Fin Coating Standard from 2022 production:

- PU(Y/Z)-A(12/18)NKA7 - Beginning with serial number 12U*****
- PU(Y/Z)-A(24/30/36/42)NKA7 - Beginning with serial number 12U*****

INDOOR UNIT ACCESSORIES: PVA-A18AA7

Control Interface	3-Pin Connector	PAC-715AD
	Airzone ZBS Wired Blueface Principal Controller White	AZZBSBLUEFACECB
	Airzone ZBS Wired Blueface Principal Controller White	AZZBSBLUEZEROCB
	Airzone ZBS Wired Lite Controller White	AZZBSLITECB
	Airzone ZBS Wireless Lite Controller White	AZZBSLITERB
	Airzone ZBS Wireless Think Controller White	AZZBSTHINKRB
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	Connector cable for remote display	PAC-SA88HA-EP
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Remote Operation Adapter†	PAC-SF40RM-E
	Thermostat Interface	PAC-US444CN-1
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
Remote Sensor	Flush Mount Remote Temperature Sensor	PAC-USSEN002-FM-1
	Flush Mount Temperature Sensor	PAC-USSEN001-FM-1
	Remote Temperature Sensor	PAC-SE41TS-E
	Wireless temperature and humidity sensor for kumo cloud®	PAC-USWHS003-TH-1
Wired Remote Controller	Deluxe Wired MA Remote Controller†	PAR-40MAAU
	Simple Ductless Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller†	PAC-YT53CRAU-J
	Touch MA Controller†	PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	MHK2
	Lockdown bracket for remote controller	RCMKP1CB
	Wireless MA Receiver	PAR-FA32MA-W
	Wireless MA Remote Controller	PAR-FL32MA-E
Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
	Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X86-003
	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	COMBI
Control Wire	20/2PR, 1PR shielded + 1PR plenum wire for Airzone, 100 ft reel	CW2042S2-100
	20/2PR, shielded + 1PR plenum wire for Airzone, 500 ft reel	CW2042S2-500
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
Downflow Kit	Condensate Management Kit for downflow installation	CMA-1
Electric Heat Lockout	Electric Heat Lockout	ETC-211020-MIT
Electric Kit Heats	3kW Electric Heater	EH03-MPA-SB
	5kW Electric Heater	EH05-MPA-SB
	8kW Electric Heater	EH08-MPA-SB
Lineset	100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-100
	15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-15
	30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-30
	50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-50
	65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-65
Terminal Block	Separate Terminal Power Block	SPTB1

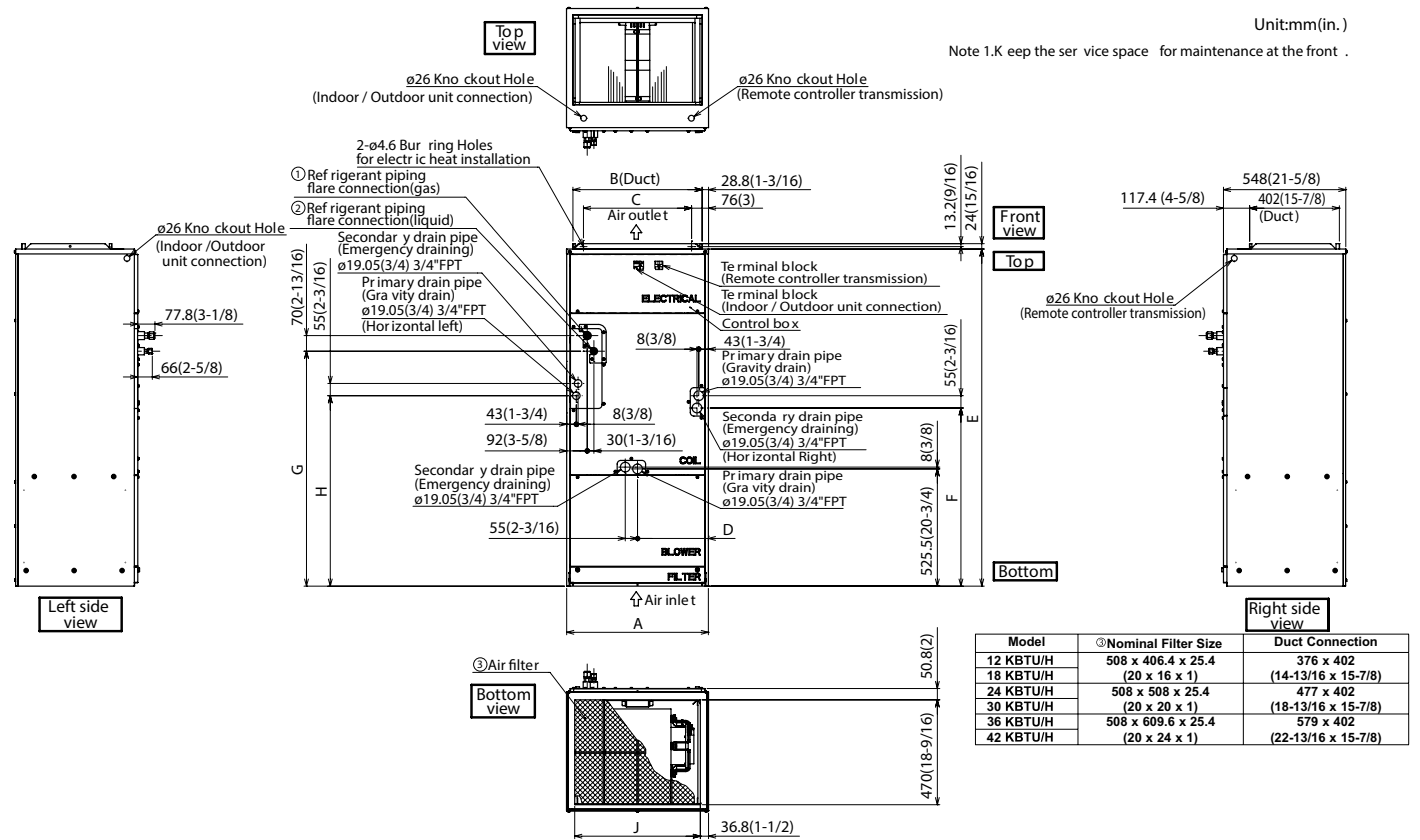
NOTES:

†PAC-SF40RM-E (Unable to use with wireless remote controller)

OUTDOOR UNIT ACCESSORIES: PUZ-A18NKA7

Air Outlet Guide	Air Outlet Guide	PAC-SJ07SG-E
Centralized Drain Pan	Centralized Drain Pan	PAC-SG63DP-E
	Drain Pan	PAC-SG64DP-E
Control/Service Tool	Control/Service Tool	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	USB/UART Conversion Cable (Required for all laptop connection)	M21EC1397
Drain Socket	Drain Socket	MAC-871DS
Hail Guards	Hail Guard	HG-A5
M-NET Converter	M-NET Converter	PAC-SJ96MA-E
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
Mounting Pad	Condensing Unit Mounting Pad: 16" x 36" x 3"	ULTRILITE1
Stand	18" Single Fan Stand	QSMS1801M
	24" Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M
Wind Baffle	Front Wind Baffle	WB-PA4
	Rear Wind Baffle	WB-RE4
	Side Advanced Wind Baffle	WB-SD4

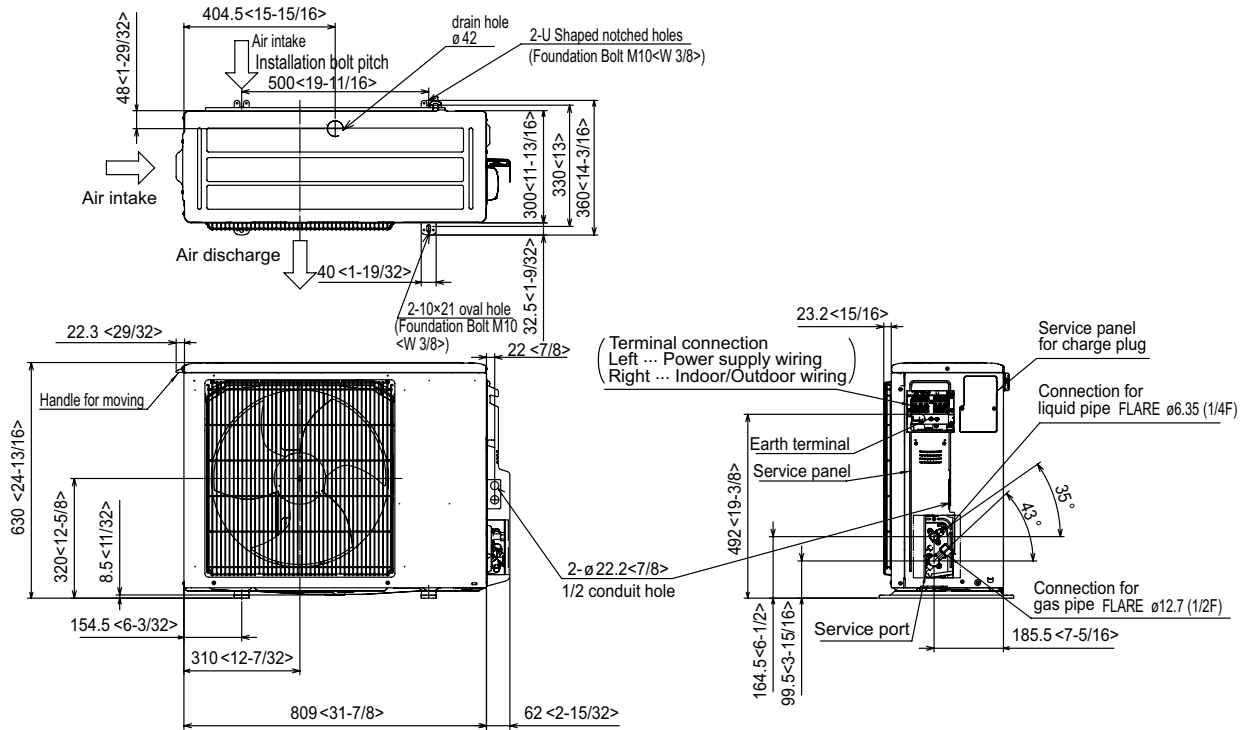
INDOOR UNIT DIMENSIONS: PVA-A18AA7



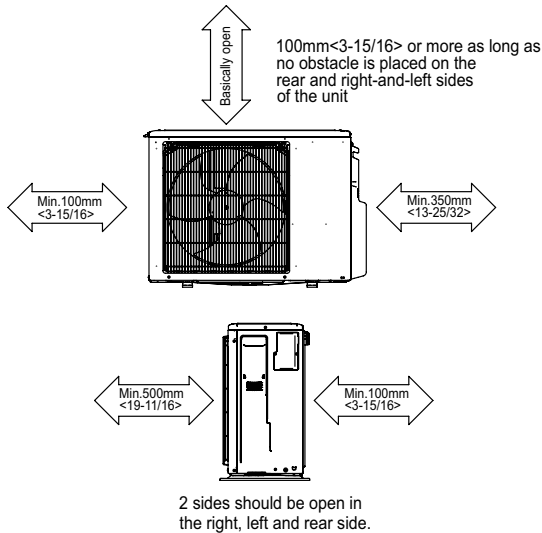
Model	Unit: mm (in.)									Unit: mm (in.)	
	A	B	C	D	E	F	G	H	J	①Gas Pipe	②Liquid Pipe
12 KBTU/H	432 (17)	376 (14-13/16)	281 (11-1/8)	224 (8-7/8)	1275 (50-1/4)	680 (26-3/16)	823 (32-7/16)	735.5 (29)	360 (14-3/16)	Φ 12.7 (1/2)	Φ 6.35 (1/4)
18 KBTU/H	534 (21)	477 (18-13/16)	382.6 (15-1/8)	266.5 (10-1/2)	1378 (54-1/4)	737 (29-1/16)	953.5 (37-9/16)	792 (31-3/16)	461 (18-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)
24 KBTU/H	534 (21)	477 (18-13/16)	382.6 (15-1/8)	266.5 (10-1/2)	1378 (54-1/4)	737 (29-1/16)	953.5 (37-9/16)	792 (31-3/16)	461 (18-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)
30 KBTU/H	635 (25)	579 (22-13/16)	484.6 (19-1/8)	317.5 (12-1/2)	1511 (59-1/2)	798.5 (31-7/16)	1053 (41-1/2)	853.5 (33-5/8)	563 (22-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)
36 KBTU/H	635 (25)	579 (22-13/16)	484.6 (19-1/8)	317.5 (12-1/2)	1511 (59-1/2)	798.5 (31-7/16)	1053 (41-1/2)	853.5 (33-5/8)	563 (22-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)
42 KBTU/H	635 (25)	579 (22-13/16)	484.6 (19-1/8)	317.5 (12-1/2)	1511 (59-1/2)	798.5 (31-7/16)	1053 (41-1/2)	853.5 (33-5/8)	563 (22-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)

OUTDOOR UNIT DIMENSIONS: PUZ-A18NKA7

Unit: mm<in>



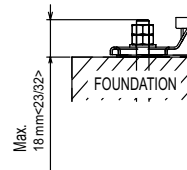
Free space around the outdoor unit (basic example)



FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10<W3/8>) bolts. (Bolts, washers and nut must be purchased locally).

<Foundation bolt height>



PIPING-WIRING DIRECTION

Piping and wiring connection can be made from the rear direction only.

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Toll Free: 800-433-4822 www.mehvac.com