



Request for Bids
HVAC Chillers for C.K. McClatchy High School
Bid #0510-433

Responses Due: August 15, 2023

No later than 2:00:00 PM

Sacramento City Unified School District
Contracts Department
5735 47th Ave.
Sacramento, CA. 95824



Sacramento City Unified School District

Contracts Department

5735 47th Ave,
Sacramento, CA 95824
T: 916-643-9465

Bidder Information Sheet

**If you downloaded this Bid from our website,
email this sheet to Purchasing Services to be
added to our bidders list.**

Attention: Tina Alvarez Bevens, Contract Analyst
Email: tina-alvarez-bevens@scusd.edu

Re: BID #0510-433 HVAC Chillers for C.K. McClatchy High School

Sacramento City Unified School District Bids/Proposals are available on-line. It is the responsibility of Respondents to email this sheet to Purchasing Services to ensure firm is added to Bidders list to receive Addenda to this Bid.

Name: _____

Title: _____

Organization: _____

Street Address: _____

City: _____

State/Zip Code: _____

Work Phone: _____

Fax: _____

Email: _____

**Sacramento City Unified School District
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NOTICE TO BIDDERS

The Sacramento City Unified School District (“District”) is requesting Bids from companies, corporations, qualified persons or organizations (“Vendors”) to supply HVAC Chillers for C.K. McClatchy High School.

The Request for Bids, which includes instructions for its completion, is enclosed for your consideration. Respondents to this Bid shall submit a completed sealed bid package. Respondents must mail or deliver one (1) unbound original, two (2) bound copies and a PDF version on a flash drive of requested materials to:

**Sacramento City Unified School District
Attn: Contracts Department
5735 47th Avenue
Sacramento, CA. 95824
RE: BID 0510-433**

ALL RESPONSES ARE DUE AUGUST 15, 2023 BY 2:00:00 P.M.

Oral, telegraphic, facsimile, telephone or email Bid Packets will not be accepted. Bid Packets received after this date and time will not be accepted and returned unopened. The District reserves the right to waive any informalities or irregularities in the Bid Packet. The District also reserves the right to reject any and all Bid Packets and to negotiate contract terms with one or more Respondents.

Addenda

The District may modify the Bid, any of the submittal dates, or any of its contents or attachments, prior to the date fixed for submission of bid by issuance of addendum to all parties who have been furnished the Bid. Addenda will be number consecutively.

All Respondents shall acknowledge receipt of amendments in its proposal.

The successful bidder will be required to certify that it either meets the Disabled Veterans Business Enterprise (“DVBE”) goal of three percent (3%) participation or made a good faith effort to solicit DVBE participation if it is awarded the contract.

If you have any questions regarding this Bid, please email Tina Alvarez Bevens, Contract Analyst at tina-alvarez-bevens@scusd.edu and cc: Robert Aldama, Purchasing Manager II at Robert-aldama@scusd.edu and Chris Ralston at chris-ralston@scusd.edu.

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BID SCHEDULE SUMMARY

DATE	ACTION ITEM	TIME
July 19, 2023	Publish and advertise 0510-433	
August 3, 2023	Last day to receive written questions from Respondents	2:00 pm
August 10, 2023	Last day for District to issue addenda to answer questions / clarifications	2:00 pm
August 15, 2023	Deadline for submissions in response to 0510-433	2:00 pm
August 21, 2023	Notice of Intent to Award / Regrets	
September 7, 2023	Anticipated Board of Education approval of contract	
September 11, 2023	Anticipated Notice to Proceed issued to awarded Respondent	

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INTRODUCTION

The Sacramento City Unified School District (“District”) is a California public school district serving approximately 40,000 students on 75 campuses, spanning 70 square miles. The purpose of this Bid, is to solicit proposals from Vendors that can supply the District with the equipment necessary to install HVAC chillers at C.K. McClatchy High School. The District intends to select one vendor through this bid process that is believed to be able to provide the best value to the District.

SCOPE OF SUPPLY

Quantity (2) Two – Chillers, One (1) AAON VAV air handling unit, two (2) CME multi-zone units and fifty-two (52) Trane Unit Ventilators

SCOPE CLARIFICATIONS

- Equipment only, no installation
- Bid price shall include freight to site: C.K. McClatchy HS
3066 Freeport Blvd., Sacramento, CA. 95818
- The District shall agree to pay **no more than 10% deposit at the time of order**, then **balance invoiced at shipment with NET 30 terms**
- Equipment offloading shall be arranged by the District
- Include estimated lead time from factory upon receipt of awarded purchase order.
- **Alternate Mfg./Models:** The District shall have sole discretion if alternate models and specifications are determined “Equal”. If an alternate manufacturer and model is proposed, include all specifications and schematics with bid submission.

BID OPENING

- Bids will be opened at or after the time indicated that responses are due. The District Office will **NOT** be open to bidders or their representatives.
- Bidders shall be clearly written and without erasure or deletions. The District reserves the right to reject any bid containing erasures, deletions, or illegible contents.
- Bidders must complete and submit the following documents with Bid submission:
 - Non-Collusion Declaration
 - Literature and Specifications
 - Lead Times

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AWARD OF CONTRACT

The District shall award the Contract, if it awards at all, to the lowest responsive, responsible Bidder based on the criteria as indicated in the Notice to Bidders. In the event two or more responsible Bidders submit identical bids, the District shall select the Bidder whom to award the Contract by lot.

- Should the awarded Bidder terminate the Contract as a result of a notice of postponement, the District shall have the authority to award the Contract to the next lowest responsive, responsible Bidder.

It is the policy of the District that no qualified person shall be excluded from participating in, be denied the benefits of, or otherwise be subjected to discrimination in any consideration leading to the award of contract, based on race, color, gender, sexual orientation, political affiliation, age, ancestry, religion, marital status, national origin, medical condition or disability. The Successful Bidder and its subcontractors shall comply with applicable federal and state laws, including, but not limited to the California Fair Employment and Housing Act, beginning with Government Code section 12900, and Labor Code section 1735.

Questions, Interpretations, or Clarifications

Questions related to this bid shall be submitted in writing and emailed to Tina Alvarez Bevens, Contract Analyst at tina-alvarez-bevens@scusd.edu and cc: Robert Aldama, Purchasing Manager II at Robert-aldama@scusd.edu and Chris Ralston at chris-ralston@scusd.edu

Specify "Question-Bid 0510-433 CKM HVAC Chillers in the subject line. Responses to all questions received will be posted on the District's website, <https://www.scusd.edu/construction-projects-bids>, as an addendum, no later than Thursday, August 10, 2023.

Bidders are responsible for checking the website periodically for any updates or revisions to the Bid

BID PROTEST

Any bid protest by any bidder regarding any other bid must be submitted in writing to the District, before 5:00 p.m. of the **THIRD (3rd)** business day following the Notice of Intent to Award Contract is posted.

- a. Only a Bidder who has actually submitted a bid, and who could be awarded the contract if the bid protest is upheld, is eligible to submit bid protests.
- b. A bid protest must contain a complete statement of any and all bases for the protest and all supporting documentation. Materials submitted after the bid protest deadline will not be considered.
- c. The protest must include the name, address and telephone number of the person representing the protesting party.

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- d. The District's Purchasing Manager shall have (5) days after receipt of protest to respond to Protestant.

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BID FORM AND PROPOSAL

To: Sacramento City Unified School District ("District")

From: _____

(Formal Name of Bidder)

The undersigned declares that the Notice to Bidders have been read, and agrees and proposes to furnish all equipment in accordance with the terms and conditions of the Scope of Supply and Specifications of Bid No. 0825-0817 for the following project known as:

HVAC Chillers for C.K. McClatchy High School

Will accept deposit of 10% at the time of order, then balance invoiced with Net 30 terms payment for proposed total amount:

Quantity: Two (2) Chillers	\$ _____
Quantity: One (1) AAON VAV air handling unit	\$ _____
Quantity: Two (2) CME multi-zone units	\$ _____
Quantity: 52 Trane Unit Ventilators.	\$ _____

(Do not include Sales Tax in Unit Cost)

TOTAL BID AMOUNT \$ _____

Lead Times:

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**NON-COLLUSION DECLARATION
TO BE EXECUTED BY AND SUBMITTED WITH BID**

I, _____, declare that I am the party making the foregoing proposal, that the proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the proposal is genuine and not collusive or sham; that the proponent has not directly or indirectly induced or solicited any other proponent to put in a false or sham proposal and has not directly or indirectly colluded, conspired, connived, or agreed with any proponent or anyone else to put in a sham proposal, or that anyone shall refrain from responding; that the proponent has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix any overhead, profit, or cost element of the proposal price, or of that of any other proponent, or to secure any advantage against the public body awarding the Contract of anyone interested in proposed Contract; that all statements contained in the proposal are true, and, further, that the proponent has not, directly or indirectly, submitted his or her proposal price of any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, Bid depository, or to any member or agent thereof to effectuate a collusive or sham Bid.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date

Name of Vendor

Printed name of Authorized Company Representative

Signature of Authorized Company Representative

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GENERAL TERMS AND CONDITIONS

Bids/Proposals: To receive consideration, Bids/Proposals shall be made in accordance with the following terms:

1. **THE BID** – All items on the form should be stated in figures, and signatures of all individuals must be in long hand. The completed form should be without interlineations, alterations, or erasures. Unsigned bids will not be accepted. **Return one (1) un-bound original and two (2) bound and signed complete set, one (1) PDF version on flash drive, sealed in an envelope with the Bid number and name of Bid listed on the outside.**

2. **“FAX” BIDS** – Facsimile copies of bids will not be accepted for formal advertised bids.

3. **DEFINITIONS** – Responsible; a bidding party possessing the skill, judgment, integrity and financial ability necessary to timely perform and complete the contract being bid. Responsive; a bid which meets all of the specifications set forth in the request for bids.

4. **NAME AND NATURE OF BIDDER’S LEGAL ENTITY** – The bidder(s) shall specify in the bid and in the bond, if furnished as a guarantee, the name and nature of its legal entity and any fictitious name under which it does any business covered by the bond. The bid shall be signed under the correct firm name by an authorized officer.

5. **WITHDRAWAL OF BID** – Bid proposals may be withdrawn by the bidders prior to the time fixed for the opening of bids, but may not be withdrawn for a period of ninety (90) days after the opening of bids. A successful bidder shall not be relieved of the bid submitted without the District’s consent or bidder’s recourse to Public Contract Code Sections 5100 et. seq.

6. **ASSIGNMENT OF CONTRACT OR PURCHASE ORDER** – The bidder(s) shall not assign or transfer by operation of law or otherwise any or all of its rights, burdens, duties or obligations without the prior written consent of the surety on the bond, if any, and the District.

7. **BID NEGOTIATIONS** – A bid response to any specific item of this bid with terms such as “negotiable”, “will negotiate” or of similar intent, will be considered as non-responsive to the specific item.

8. **PRICES** – Prices should be typed and shown as instructed on the bid form for each item, in the amount of quantity specified in the bid form. Taxes shall not be included. Errors may be crossed off and corrections made prior to bid opening only, and must be initialed in ink by the person signing the bid or bidder’s authorized representative. If during the contract period there should be a decrease in prices of the items bid, a corresponding

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decrease in prices on the balance of the deliveries shall be made to the District for as long as the lower prices are in effect, but at no time shall the prices charged the District exceed the prices bid. The District shall be given the benefit of any lower prices which may, for comparable quality and delivery be given by the contractor to any other school district or any other state, county, municipal or local governmental agency in Sacramento County for products listed herein.

9. **TAXES** – Taxes shall not be included in unit prices. The District will pay only the State Sales and Use Tax; however, California Use Tax will be paid to out-of-state vendors only when their permit number is shown on both their bid and invoices. The successful bidder(s) shall list separately any taxes payable by the District and shall certify on the invoices that Federal Excise Tax is not included in the prices listed thereon. Federal Excise Tax is not applicable, as school districts are exempt therefrom. The District, upon request, shall furnish the contractor such Federal Tax Exemption Certificates as may be required.

10. **PERFORMANCE GUARANTEE** – The successful bidder(s) may be required to provide a performance guarantee. Such requirement shall be at the discretion of the District's Manager of Purchasing Services. A continuous performance bond in the amount of 100% of the total amount of the award executed by an admitted surety in the State of California and satisfactory to the District and filed with the Manager of Purchasing Services is the preferred form of performance guarantee. Said bond, if required, shall be furnished within ten (10) calendar days from the date of Notice of Award. Failure to promptly submit a performance guarantee when requested may result in the rejection of an otherwise acceptable low bid.

11. **BRAND NAME AND NUMBER** – The bidder(s) shall state the brand name and number in the column provided. If none is indicated, it shall be understood that the bidder is quoting on the exact brand name and number specified in the bid form. Should any item for which bids are requested be patented, or otherwise protected or designated by the particular name of the maker and the bidder desires to bid on an item of equal character and quality, he may offer such substitute item by clearly indicating that such substitution is intended and specify the brand. Such substitution shall be accepted only if deemed by the Manager of Purchasing Services to be equal in all respects to that specified. If samples are requested by the Manager of Purchasing Services for this determination, they shall be submitted in accordance with Paragraph 12, except that they may be submitted after the bid opening.

12. **SAMPLES** – Samples shall be furnished free of cost to the District after the bid opening. If requested, they are to be sent within seven (7) days to Purchasing Services, 5735 47th Avenue, Sacramento California, 95824, unless otherwise specified. The District reserves the right to reject the bid of any bidder failing to submit samples as requested. Samples must be plainly marked with name of bidder, bid number and date of the bid opening. Samples of the successful bidder(s) may be retained for comparison with deliveries. Bidder(s) may pick up samples (if not destroyed by test) on notice from the Manager of Purchasing Services. If not picked up within fifteen (15) calendar days after date of such

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notice, samples may be disposed of by the District. Bidder(s) (or their agent) hereby assume all risks of loss or damage to samples whatever the cause.

13. **QUANTITY AND QUALITY OF MATERIALS OR SERVICES** – The successful bidder(s) shall furnish and deliver the quantities designated in the bid or purchase order. All materials, supplies or services furnished under the contract shall be in accordance with the bid specifications and the District's sample or the sample furnished by the bidder(s) and accepted by the District. Materials or supplies which, in the opinion of the Manager of Purchasing Services, are not in accordance and conformity with said specifications and samples shall be rejected and removed from the District premises at the bidder's expense. When a sample is taken from a shipment and sent to a laboratory for testing and the test shows that the sample does not comply with the bid specifications, the cost of such test shall be paid by the bidder(s). In bidding, the bidder(s) certifies that all materials conform to all applicable requirements of CAL OSHA and all other requirements of law. All items of equipment and individual components, where applicable standards have been established, shall be listed by the Underwriter Laboratories, Inc., and bear the UL label.
14. **DISTRICT REQUIREMENTS** – The quantity shown is the estimate of consumption for the contract period. The needs of the District may be substantially more or less than such referenced quantities. The articles, supplies or services listed in the bid and required during the contract period shall be ordered and purchased from the successful bidder(s) during such period. The District shall have the right to issue purchase orders up to and including the last day of the contract period even though the time provided for delivery may extend beyond such period. The District reserves the right to acquire from other sources during the life of the contract such items as may be required for testing, evaluation or experimental purposes, or for special programs of an emergency nature, and purchases made by individual schools.
15. **ACCEPTANCE OR REJECTION OF BIDS** – The District may purchase an individual item or combination of items, whichever is in the best interest of the District, provided also that bidder(s) may specify that the District's acceptance of one item shall be contingent upon the District's acceptance of one or more additional items submitted in the same bid. Bids shall remain open and valid and subject to acceptance for ninety (90) calendar days after the bid opening.
16. **BID EXCEPTIONS** – All exceptions which are taken in response to this bid must be stated clearly. The taking of bid exceptions or providing false, incomplete or unresponsive statements may result in the disqualification of the bid. Allowance of exceptions will be determined by the governing board whose decisions shall be final. Any bid exceptions or additional conditions requested after bid closure, which are not detailed within the bid response, may result in disqualification of the bid. No oral or telegraphic modification of any bid submitted will be considered.
17. **AWARDS** – The District reserves the right of determination that items bid meet or do not meet bid specifications. Further, the Board of Education reserves the right to accept or reject any or all bids and to waive any informality in the bidding.

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18. **EXECUTION OF CONTRACT** – Issuance of a Purchase Order shall be evidence the contractual agreement between the bidder(s) and the District and the bidder's acceptance of these Bid Instructions and Conditions.
19. **DELIVERY** – Time and manner of delivery are essential factors in proper performance under the contract. Unless otherwise specified, the successful bidder(s) shall be responsible for delivery and shall pay all costs, including drayage, freight and packing for delivery to locations in the District as may be specified in the bid form. Each item shall be securely and properly packed and clearly marked as to contents. All items purchased for delivery by truck or freight line shall be palletized. The preferred pallet size should be 48" long by 40" wide. All shipments shall be accompanied by a packing slip and the District purchase order number shall appear on all cases and packages.
20. **MATERIAL SAFETY DATA SHEETS** – For all products requiring a Material Safety Data Sheet – The District requires that a Material Safety Data Sheet accompany all orders at the time of delivery.
21. **DEFAULT BY CONTRACTOR** – The District shall hold the bidder(s) responsible for any damage which may be sustained because of failure or neglect to comply with any terms or conditions listed herein. It is specifically provided and agreed that time shall be of the essence in meeting the contract delivery requirements. If the successful bidder(s) fails or neglects to furnish or deliver any of the materials, supplies or services listed herein at the prices named and at the time and place herein stated or otherwise fails or neglects to comply with the terms of the bid, the District may, upon written notice to the bidder, cancel the contract/purchase order in its entirety or cancel or rescind any or all items affected by such default, and may, whether or not the contract is cancelled in whole or in part, purchase the materials, supplies or services elsewhere without further notice to the bidder. The prices paid by the District at the time such purchases are made shall be considered the prevailing market price. Any extra cost incurred by such default may be collected by the District from the bidder, or deducted from any funds due the bidder.
22. **INSURANCE** – The successful bidder(s) shall maintain insurance adequate to protect him from claims under Workers' Compensation Laws and from claims for damages for personal injury, including death and damage to property, which may arise from bidder's operations under the contract. Also, the bidder may be required to file proof of such insurance, naming Sacramento City Unified School District as an additional insured by separate endorsement as follows: The bidder is required to provide proof of insurance to the Governing Board of a comprehensive general liability insurance policy providing occurrence based coverage to be in effect during the term of the contract. Bodily Injury shall be \$1,000,000, combined single limit or \$1,000,000 per person, \$1,000,000 per accident. Property Damage shall be \$500,000 per loss. Failure to furnish such evidence and insurance, if required, may be considered default by the bidder(s).
23. **INVOICES AND PAYMENTS** – Unless otherwise specified, the successful bidder(s) shall render invoices in duplicate for materials delivered or services performed under the

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contract, to the: Sacramento Unified School District, Accounting Services Department, 5735 47th Avenue, Sacramento, California, 95824. Invoices shall be submitted under the same firm name as shown on the bid. The successful bidder(s) shall list separately any taxes PAYABLE BY THE District and shall certify on the invoices that Federal Excise Tax is not included in the prices listed thereon. The District shall make payment for materials, supplies, or services furnished under the contract within **NET 30** terms after acceptance thereof and approval of the invoices by the authorized District Representative.

24. **AMERICAN MADE PRODUCTS** – In compliance with Sections 4300 to 4305 of the California Government Code and the William F Gooding Child Nutrition Reauthorization Act of 1998, Section 204(d); 7 CFR Sections 210.21(d) and 220.16(d), only materials produced or manufactured in the United States will be procured by the District, except for those which fall within the purview of Sections 4301, 4302 and 4303.5. In compliance with Code Sections 4330 to 4334 inclusive California products shall receive preference over materials made elsewhere. If a bidder is proposing an article of foreign make, the fact must be stated in his bid.

25. **MISCELLANEOUS PROVISIONS:**

A. Assignment of Contracts – The Contractor shall not assign or transfer by operation of law or otherwise any or all of its rights, burdens, duties or obligations without the prior written consent of the surety on the performance bond (if one is required) and of the District.

B. Binding Effect – This Agreement shall inure to the benefit of and shall be binding upon the Contractor and District and their respective successors and assigns.

C. Severability – If any provisions of this agreement shall be held invalid or unenforceable by a court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provisions hereof.

D. Amendments – The terms of this Agreement shall not be waived, altered, modified, supplemented or amended in any manner whatsoever except by written agreement signed by the parties.

E. Entire Agreement – This Bid and all attachments thereto constitutes the entire agreement between the parties. There are no understandings, agreements, representations or warranties, express or implied, not specified in the Agreement. Bidder, by the execution of his/her signature on the Bid Form acknowledges that he/she has and read this Agreement, understands it, and agrees to be bound by its terms and conditions.

F. Force Majeure Clause – The parties to the contract shall be excused from performance thereunder during the time and to the extent that they are prevented from obtaining, delivering or performing by act of God, fire, strike, loss or shortage of transportation facilities, lockout, or commandeering of materials, products, plants or facilities by the government, when satisfactory evidence thereof is presented to the other

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party, provided that it is satisfactorily established that the nonperformance is not due to the fault or neglect of the party not performing.

G. Hold Harmless Clause – The successful bidder agrees to indemnify, defend and save harmless Sacramento City Unified School District, its governing board, related divisions and entities, officers, agents, and employees from and against any and all claims, demands, losses, defense costs, or liability of any kind or nature which the District, its officers, agents, and employees may sustain or injure or which may be imposed upon them for injury to or death of persons, or damage to property as a result of, arising out of, or in any manner connected with the bidder or bidder's agents, employees or subcontractor's performance under the terms of this contract, expecting only liability arising out of the sole negligence of the District.

H. Prevailing Law – In the event of any conflict or ambiguity between these instructions and state or federal law or regulations, the latter shall prevail. Additionally, all equipment to be supplied or services to be performed under the bid proposal shall conform to all applicable requirements of local, state and federal law.

I. Governing Law and Venue – In the event of litigation, the bid documents, specifications and related matters shall be governed by and construed only in accordance with the laws of the State of California. Venue shall only be with the appropriate state or federal court located in Sacramento County.

J. Permits and Licenses – The successful bidder(s) and all of his employees or agents shall secure and maintain in force such licenses and permits as are required by law, in connection with the furnishing of materials, articles or services herein listed. All operations and materials shall be in accordance with law.

K. Toll Charges – If it is necessary that the District place toll or long distance telephone calls in connection with this contract (for complaints, adjustments, shortages, failure to deliver, etc.), the successful bidder shall accept charges for such calls on a reverse charge basis.

L. Contract Documents – The complete contract includes the following documents: The advertisement for bids, the bid instructions and conditions, specifications and drawings, if any, the bid and its acceptance by the District, the purchase order, and all amendments thereto. All of these documents shall be interpreted to include all provisions of the other documents as though fully set out therein.

M. Independent Contractor – While engaged in carrying out and complying with terms and conditions of the contract, the bidder agrees by his/her signature on the Bid Form that he/she is an independent contractor and not an officer, employee or agent of the District.

N. Anti-discrimination – It is the policy of the Sacramento City Unified School District Board of Education, that in connection with all work performed under Purchasing Contracts there shall be no discrimination against any prospective or active employee engaged in the work because of sexual orientation, physical and mental disability, medical conditions, marital status, age, pregnancy, veteran status, gender, race, color, ancestry,

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national origin, sex, or religious creed. Therefore, the bidder agrees to comply with applicable Federal and California laws including, but not limited to, the California Fair Employment and Housing Act. In addition, the successful bidder(s) agrees to require like compliance by all subcontractors employed on the work by him.

O. Termination Without Cause – This Agreement may be terminated by the District upon giving thirty days' advance written notice of an intention to terminate.

P. Product Shortages – If the successful bidder is unable to supply any product listed herein, the District may purchase such product at a fair market value from another source. The difference in cost and all delivery charges shall be the responsibility of the supplier listed on the original contract agreement.

QC
 INI
 %
 0.14" / 1.27"
 IF THIS SHEET IS NOT 30x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
 C
 B
 4/27/2023 3:46:46 PM

VAV AIR HANDLING UNIT SCHEDULE

OWNER FURNISHED, CONTRACTOR INSTALLED

UNIT	SERVES	"AAON" MODEL NO. U.N.O.	NOM. TONS	AIRFLOW				DX COOLING				GAS HEATING				AHU UNIT ELECTRICAL DATA										EFFICIENCY				OPERATING WEIGHT (LBS.)			MOUNTING DETAIL	CONTROL DIAGRAM	NOTES					
				SUPPLY		RETURN		MIN. OA	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EVAP. EDB (°F)	EWB (°F)	INPUT (MBH)	OUTPUT (MBH)	HX EDB (°F)	VOLT/PH	SUPPLY FAN		RETURN FAN		COMPRESSOR		COND. FAN		COMB. FAN		UNIT FLA	UNIT MCA	UNIT MOCP	COOLING		HEATING				AC UNIT	ADPTR CURB	TOTAL		
				CFM	ESP (IN. W.G.)	CFM	ESP (IN. W.G.)										BHP	FLA	BHP	FLA	QTY	RLA	LRA	QTY	FLA	FLA				FLA	FLA	SEER							EER	IEER
AHU 1	ADMIN AREA	RN-020-3-0-HB09-349	20	7200	1.0	5800	0.5	1400	175.2	242.0	80.0	67.0	270.0	218.7	60.0	460/3	3.62	7.6	(2) @ 0.33 EACH	(2) @ 2.1 EACH	2	#1 14.7 #2 14.8	---	2	3.6 EACH	0.9	49.0	52.0	60	N/A	12.1	15.5	N/A	81.0%	3390	610	4000	---	---	①②③④⑤⑥⑦⑧

NOTES:

- ① UNITS SELECTED AT 105 F DB / 70 F WB SUMMER AMBIENT, 30 F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NET TOTAL CAPACITIES.
- ② PROVIDE UNIT WITH CONDENSER COIL GUARDS, HINGED ACCESS DOORS, AND 4" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTER(S). THE ESP SCHEDULED ABOVE INCLUDES AIR PRESSURE DROP THRU FILTER(S).
- ③ PROVIDE ADAPTER CURB FOR RE-USE OF EXISTING ROOF CURB.
- ④ PROVIDE FACTORY 8:1 MODULATING GAS HEATING, WITH STAINLESS STEEL HEAT EXCHANGER.
- ⑤ PROVIDE FACTORY INSTALLED SUPPLY FAN AND RETURN FAN VFDs OR ECM MOTORS.
- ⑥ PROVIDE FACTORY INSTALLED ECM CONDENSER FAN MOTORS.
- ⑦ R-410A REFRIGERANT (SAFETY GROUP A1, LOW-PROBABILITY SYSTEM).
- ⑧ UNIT CONTROLS VIA EXISTING JOHNSON CONTROLS EMS SYSTEM.

UNIT VENTILATOR SCHEDULE

OWNER FURNISHED, CONTRACTOR INSTALLED

UNIT	QTY.	SERVES	"TRANE" MODEL NO.	CFM	MIN. O.A. (GPM)	ESP (IN. W.G.)	COOLING COIL (CHILLED WATER)				HEATING COIL (STEAM)				ELECTRICAL DATA						OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES				
							SENS. CAP. (MBH)	TOTAL CAP. (MBH)	GPM	WPD (FT.)	TCV	EDB (°F)	FLOW (LB/HR)	CAPACITY (MBH)	TCV	VOLT/PH	FAN MOTOR			MCA					MOCP			
																	HP	RPM	FLA									
UV 3	2	CLASSROOMS	FC08080	600	---	0.30	80.0	65.0	16.5	19.4	3.4	6.42	---	60.0	2.0	20.12	19.4	---	120/1	0.22	1303	---	3.88	15	147	---	---	①②③④⑤⑥
UV 7	8	CLASSROOMS	HUV075	750	---	3/16"	80.0	65.0	23.3	27.4	4.7	---	---	60.0	2.0	---	48.0	---	120/1	1.0	1330	13.0	---	---	323	---	---	①②③④⑤⑦
UV 10	6	CLASSROOMS	HUV100	1000	---	3/16"	80.0	65.0	31.1	36.6	6.3	---	---	60.0	2.0	---	60.0	---	120/1	1.0	1330	13.0	---	---	357	---	---	①②③④⑤⑦
UV 12	13	CLASSROOMS	HUV125	1250	---	3/16"	80.0	65.0	37.6	44.3	7.6	---	---	60.0	2.0	---	78.0	---	120/1	1.0	1330	13.0	---	---	414	---	---	①②③④⑤⑦
UV 15	23	CLASSROOMS	HUV150	1500	---	3/16"	80.0	65.0	45.2	53.3	9.1	---	---	60.0	2.0	---	90.0	---	120/1	1.0	1330	13.0	---	---	475	---	---	①②③④⑤⑦

NOTES:

- ① SIZE TCV FOR 4 PSIG PRESSURE DROP AT FLOW LISTED.
- ② COOLING COIL: 45 F EWT, 55 F LWT.
- ③ FOR COIL PIPING SEE DETAIL _ / M_ _ _ TCVs PROVIDED BY CONTROLS CONTRACTOR.
- ④ PROVIDE WITH FACTORY HINGED ACCESS PANELS.
- ⑤ PROVIDE WITH 1" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTERS.
- ⑥ ARRANGEMENT: HORIZONTAL CONCEALED, DUCTED SUPPLY & RETURN.
- ⑦ ARRANGEMENT: FRESH AIR BACK, RETURN AIR BOTTOM, DUCTED SUPPLY.

AIR COOLED CHILLER SCHEDULE

OWNER FURNISHED, CONTRACTOR INSTALLED

UNIT	QTY.	SERVES	"TRANE" MODEL NO. U.N.O.	NOM. TONS	TYPE	CAPACITY (TONS)	EVAPORATOR				CH UNIT ELECTRICAL DATA										EFFICIENCY				OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
							FLOW (GPM)	EWT (°F)	LWT (°F)	MAX. WPD (FT)	VOLT/PH	COMPRESSOR			COND. FAN		UNIT MCA	UNIT MOCP	TOTAL KW	EER	IPLV EER	NPLV EER						
												QTY	RLA	LRA	KW	QTY							FLA	KW				
CH 1	2	(N) UV's & (E) ROOFTOP AC's	ACS1602EUA	160	SCROLL	138.41	331.1	55.0	45.0	13.67	480/3	4	69.0 EACH	389.0 EACH	171.00	8	2.5 EACH	9.71	347.0	400	181.14	9.169	16.483	15.911	10,865	---	---	①②③④⑤⑥⑦⑧

NOTES:

- ① R-454B REFRIGERANT.
- ② PROVIDE SEPARATE 120v POWER CONNECTION FOR EVAPORATOR FREEZE PROTECTION HEATERS.
- ③ PUMP PACKAGE THAT INCLUDES TWO HIGH HEAD PUMPS, TWO VFDs, DRAINAGE VALVES, AND SHUT-OFF VALVES AT ENTERING AND LEAVING CONNECTIONS. VFDs SHALL ACCEPT AN INPUT FROM BAS FOR VARIABLE PRIMARY FLOW CONTROL. PUMP PACKAGE SHALL HAVE 130 FT. AVAILABLE HEAD PRESSURE. MOTOR SIZE: 25.0 HP, PUMP FLA: 34.0.
- ④ CIRCUIT BREAKER WITH 65kA SCOR AND ENERGY METER (KW).
- ⑤ CHILLER CONTROLS ARE DESIGNED FOR VARIABLE PRIMARY FLOW. THE FLOW RATE MUST CHANGE AT A RATE OF LESS THAN 10% PER MINUTE TO MAINTAIN +/- 2 DEGREE LWT, AND LESS THAN 30% TO REMAIN ONLINE.
- ⑥ EACH CONDENSER FAN SHALL HAVE AN INTEGRATED DRIVE TO PROVIDE VARIABLE SPEED FOR OPTIMIZED EFFICIENCY AND LOWER PART LOAD SOUND.
- ⑦ CHILLER SHALL HAVE NIGHT TIME MODE TO REDUCE SOUND LEVELS WITH INPUT FROM BAS.
- ⑧ FACTORY STARTUP WITH UP TO 10 YEAR PARTS, LABOR & REFRIGERANT WARRANTY ON WHOLE CHILLER & PUMP PACKAGE.

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SHEET M-002



MULTI-ZONE UNIT SCHEDULE

OWNER FURNISHED, CONTRACTOR INSTALLED

UNIT	"DME" CUSTOM EQUIPMENT MODEL NO.	QTY BUILDING ZONES	QTY UNIT ZONES	SUPPLY AIR (CFM)	MIN. O.A. (CFM)	DX COOLING				TOTAL GAS LOAD			ELECTRICAL DATA				OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES		
						TOTAL (MBH)	SENSIBLE (MBH)	EAT (FDB/FWB)	LAT (Fdb)	REFRIG. ERANT	EER	SEER	INPUT (MBH)	OUTPUT (MBH)	VOLTY/PH	MCA					MOCP	AFUE (%)
MZ 1	PMZ3-15GG41-XX	4	4	4350	652	147.0	110.3	80/67	49	R-410A	11.7	14.0	171.0	165.0	460/3	35.0	40	96.0	4034	---	---	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪
MZ 2	PMZ3-25GG41-XX	10	10	8280	1242	260.4	199.1	80/67	50	R-410A	11.6	13.4	285.0	275.0	460/3	61.0	70	96.0	5731	---	---	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

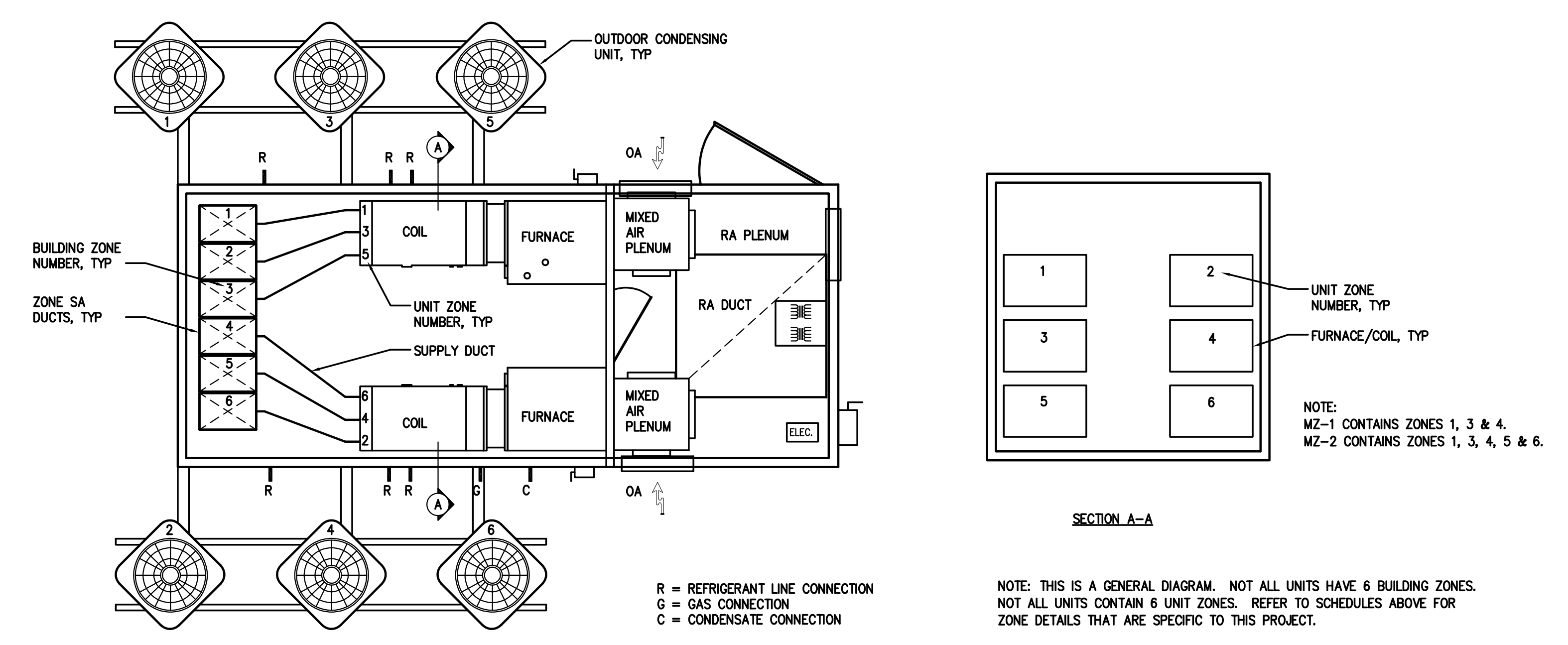
- NOTES:**
- ① PROVIDE CONDENSING UNITS WITH OPTIMAL START TO PREVENT ALL CONDENSERS FROM STARTING SIMULTANEOUSLY.
 - ② (E) ROOF CURBS SHALL BE RE-USED.
 - ③ ALL UNITS SHALL BE CONSTRUCTED FROM PRE PAINTED MATERIAL. COLOR SHALL BE PER ARCHITECT.
 - ④ UNITS SHALL BE CUSTOM BUILT/FITTED TO MATE DIRECTLY TO EXISTING ZONE DUCT AND RETURN DUCT CONNECTIONS
 - ⑤ UNIT OPERATING WEIGHT INCLUDES FURNACES AND CONDENSING UNIT AT MZ UNIT.
 - ⑥ PROVIDE WITH MANUFACTURER'S RELIEF FAN. FAN TO PROVIDE POWERED RELIEF DURING ECONOMIZER OPERATION. FAN, CONTROLS, AND WIRING SHALL BE BY UNIT MFR.
 - ⑦ MCA AND MOCP INCLUDE INTERIOR FURNACE UNITS AND EXTERIOR CONDENSING UNITS. THERE IS A SINGLE POINT OF CONNECTION.
 - ⑧ REFER TO 1/A-003 FOR MULTI-ZONE UNIT'S INTERNAL COMPONENT GENERAL INFO AND ADDITIONAL NOTES.
 - ⑨ FOR MULTI-ZONE UNIT INTERNAL COMPONENT DETAILS, REFER TO SCHEDULE BELOW.
 - ⑩ PROVIDE UNITS WITH 4" THICK MERV 13 PLEATED MEDIA DISPOSABLE FILTERS.
 - ⑪ MANUFACTURER SHALL PROVIDE ADAPTER CURB.

MULTI-ZONE UNIT INTERNAL COMPONENT SCHEDULE

OWNER FURNISHED, CONTRACTOR INSTALLED

INDOOR FURNACE (WITH DX COIL)											OUTDOOR CONDENSING UNIT (ACCU)																		
UNIT	SYSTEM	"LENNOX" MODEL NO. (INDOOR UNIT)	CFM	MIN. OA (CFM)	ESP (IN. WG)	COIL MFR MODEL NO.	GAS HEATING			AFUE (%)	NOTES	"LENNOX" MODEL NO. (OUTDOOR UNIT)	EVAP. CFM	SENSIBLE COOLING CAP. (MBH)	TOTAL COOLING CAP. (MBH)	EVAP.		VOLTY/PH	COND. FAN FLA	COMPRESSOR		MCA	OPER. WT. (LBS.)	RS O.D.	RL O.D.	MOUNTING DETAIL	NOTES		
							INPUT (MBH)	OUTPUT (MBH)	EDB (°F)							EWB (°F)	RA			RLA									
MZ 1	1	EL296UH090XV60C	1500	225	0.8	CH33-62D	88.0	85.0	57.0	55.0	96.0	①	ML14XC1-048-463	1500	36.3	37.6	80	67	460/3	0.6	29.0	8.97	12.3	268	1-1/8"	3/8"	---	---	② ③ ④ ⑤ ⑥ ⑦
	3	EL296UH090XV60C	1375	206	0.8	CH33-62D	88.0	85.0	57.0	55.0	96.0	①	ML14XC1-048-463	1375	36.3	37.6	80	67	460/3	0.6	29.0	8.97	12.3	268	1-1/8"	3/8"	---	---	② ③ ④ ⑤ ⑥ ⑦
	4	EL296UH090XV60C	1475	221	0.8	CH33-62D	88.0	85.0	57.0	55.0	96.0	①	ML14XC1-048-463	1475	36.3	37.6	80	67	460/3	0.6	29.0	8.97	12.3	268	1-1/8"	3/8"	---	---	② ③ ④ ⑤ ⑥ ⑦
MZ 2	1	EL296UH090XV60C	1800	270	0.8	CH33-62D	88.0	85.0	57.0	55.0	96.0	①	ML14XC1-060-463	1800	43.5	56.5	76	67	460/3	1.0	62.0	8.97	12.3	332	1-1/8"	3/8"	---	---	② ③ ④ ⑤ ⑥ ⑦
	3	EL296UH090XV60C	2040	306	0.8	CH33-62D	88.0	85.0	57.0	55.0	96.0	①	ML14XC1-060-463	2040	43.5	56.5	76	67	460/3	1.0	62.0	8.97	12.3	332	1-1/8"	3/8"	---	---	② ③ ④ ⑤ ⑥ ⑦
	4	EL296UH090XV60C	2000	300	0.8	CH33-62D	88.0	85.0	57.0	55.0	96.0	①	ML14XC1-060-463	2000	43.5	56.5	76	67	460/3	1.0	62.0	8.97	12.3	332	1-1/8"	3/8"	---	---	② ③ ④ ⑤ ⑥ ⑦
	5	EL296UH090XV60C	1240	186	0.8	CH33-62D	88.0	85.0	57.0	55.0	96.0	①	ML14XC1-048-463	1240	36.3	37.6	80	67	460/3	0.6	29.0	8.97	12.3	268	1-1/8"	3/8"	---	---	② ③ ④ ⑤ ⑥ ⑦
6	EL296UH090XV60C	1200	180	0.8	CH33-62D	88.0	85.0	57.0	55.0	96.0	①	ML14XC1-036-463	1200	27.6	28.7	80	67	460/3	0.6	29.0	6.41	9.1	243	7/8"	3/8"	---	---	② ③ ④ ⑤ ⑥ ⑦	

- NOTES:**
- ① FURNACE IS AN INTEGRAL PART OF THE MULTI-ZONE UNIT.
 - ② MANUFACTURER SHALL PROVIDE ALUMINUM I BEAM MOUNTING RAILS FOR MULTIPLE CONDENSING UNIT MOUNTING.
 - ③ CONDENSING UNIT INDIVIDUAL ELECTRICAL DATA IS INCLUDED IN THE MZ'S MCA AND MOCP.
 - ④ ELECTRICAL CONTRACTOR TO WIRE BETWEEN CONDENSER AND DISCONNECT LOCATED EXTERIOR TO MZ UNIT.
 - ⑤ CONTROL CONTRACTOR TO WIRE BETWEEN CONDENSER AND CONTROL "J" BOX LOCATED EXTERIOR TO MZ UNIT.
 - ⑥ R-410A REFRIGERANT.
 - ⑦ CONTRACTOR TO RUN REFRIGERANT LINES BETWEEN CONDENSING UNIT AND STUBS AT MZ UNIT AND INSTALL SIGHT GLASS AT CONDENSING UNIT, PROVIDED BY UNIT MANUFACTURER. INSTALL REFRIGERANT PIPING IN STRICT CONFORMANCE WITH MFR'S REQUIREMENTS.



GENERAL MULTIZONE INTERNAL COMPONENT DIAGRAM

SCALE : NONE

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