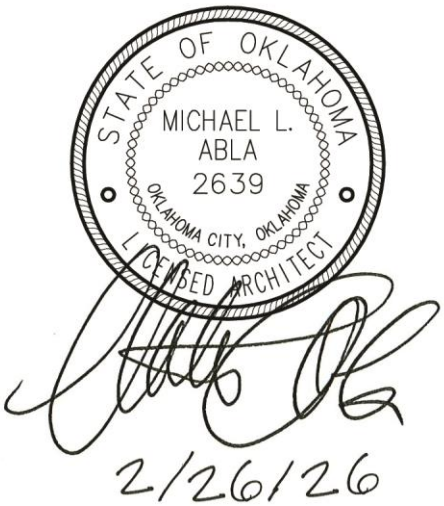
MOORE PUBLIC SCHOOLS -
WAYLAND BONDS ELEMENTARY SCHOOL
2025 HVAC UPGRADES
Moore Public Schools - Moore, Oklahoma
AGP - Moore, Oklahoma

ADDENDUM NO. 2
February 26, 2026



This addendum applicable to work designated herein, shall be understood to be an Addendum, and as such shall be included in the Contract Agreement.

Receipt of this Addendum shall be acknowledged by the Construction Management Firm notifying this office in writing, and by any applicable subcontractor to the CM.

This addendum consists of two (2) pages with attachments of fifteen (15) 8.5″x11″ pages and thirteen (13) 24″x36″ sheets.

A. Drawings:

General

1. PHASING DESCRIPTION - SUMMER VS. DURING SCHOOL "SHUT-DOWN" TIMES: refer to Mechanical and Electrical Drawings for identification of applicable heat pumps to be installed with system upgrades during the summer school break. All other heat pumps are to be installed during the school year – coordinate building availability times with the Owner and Architect and schedule work accordingly.

Civil

No changes.

Structural

Refer to attachments.

Architectural

1. Sheet C100, Details #1, Cooling Tower Plan & #2, Fence Plan: revised details as noted and added demolition of existing masonry wall. Refer to attachment.

2. Sheet A100, Detail #2, Reflected Ceiling Plan, General Note #4: clarification – ceiling tiles and/or grid shall only be replaced (to match existing) if damaged during installation of other work. This ceiling repair/replacement work shall be performed at no additional cost to the Owner.

Mechanical, Electrical, and Plumbing

Refer to attachments.

B. Specifications:

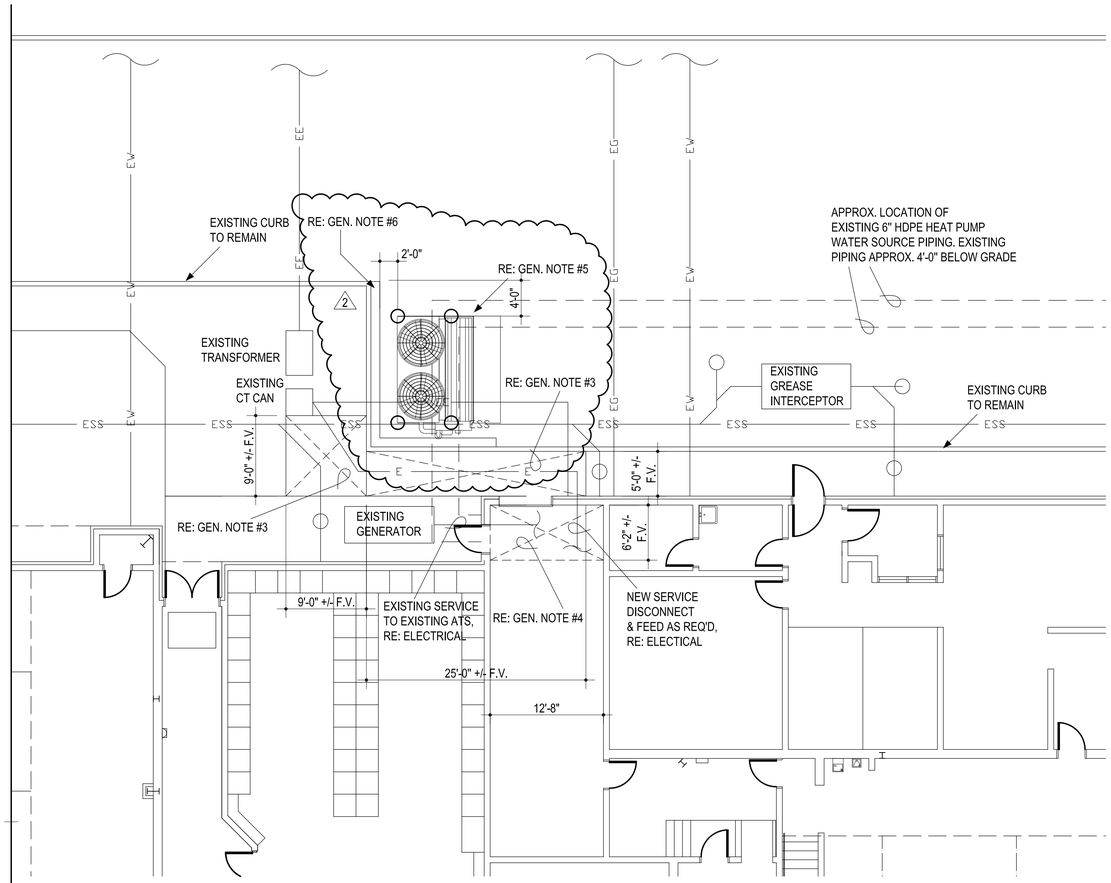
1. Table of Contents: added / removed sections associated with this Addendum. Refer to attachments.

2. Section 09120 – Ceiling Suspension Systems & Section 095113 – Acoustical Panel Ceilings Kitchen Zone: remove sections in their entirety.

Mechanical, Electrical, and Plumbing

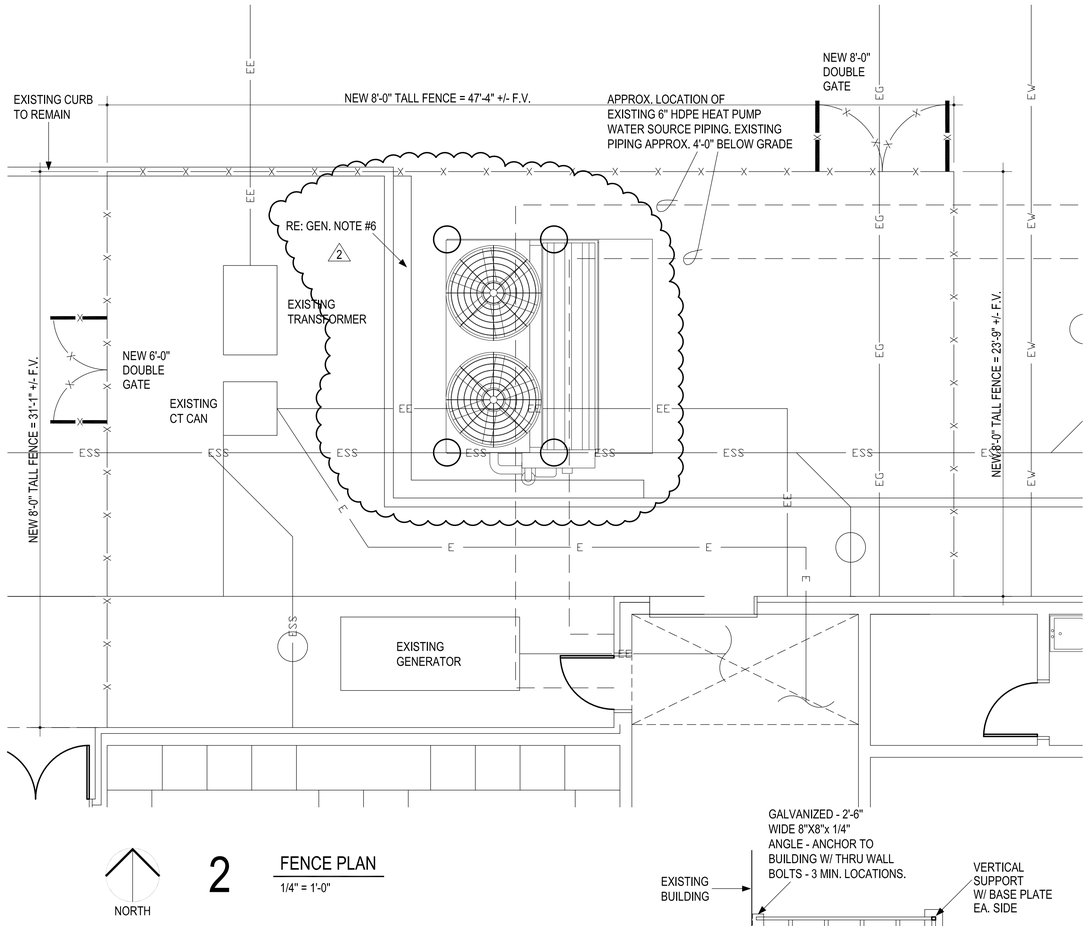
Refer to attachments.

END OF ADDENDUM NO. 2



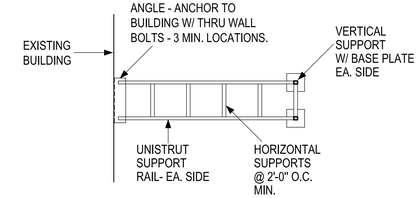
1 COOLING TOWER PLAN

1/8" = 1'-0"



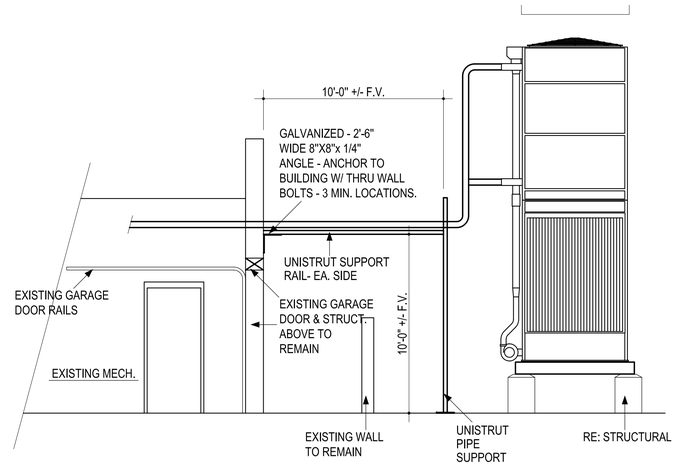
2 FENCE PLAN

1/4" = 1'-0"



PIPE SUPPORT PLAN

1/4" = 1'-0"

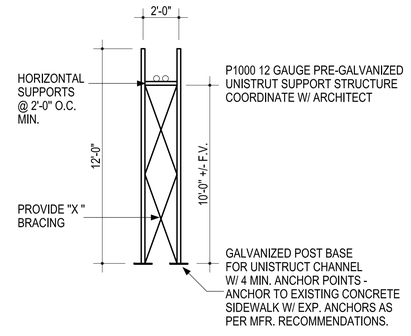


GENERAL NOTES:

1. CORE DRILL EXISTING CMU / VENEER WALL AS REQUIRED. VERIFY HEIGHT AND CLEARANCE REQUIRED FOR A COMPLETE INSTALLATION. SEAL AND INSULATE TO WATERTIGHT.
2. ATTACH UNISTRUT SUPPORT TO WALL ANGLE
3. ALL UNISTRUT MATERIALS TO BE 12 GAUGE PRE-GALVANIZED

3 PIPE SUPPORT ELEVATION

1/4" = 1'-0"



PIPE SUPPORT ELEVATION

1/4" = 1'-0"

GENERAL NOTES:

1. EXISTING UNDERGROUND UTILITY LOCATIONS HAVE BEEN OBTAINED FROM THE BEST AVAILABLE SOURCES. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK & COORDINATE W/ ARCHITECT.
2. LOCATE & PROTECT EXISTING UNDERGROUND UTILITIES TO REMAIN.
3. DEMO EXISTING SIDEWALK AS INDICATED. PROVIDE NEW CONC. SIDEWALK AS REQ'D - MATCH EXISTING
4. DEMO EXISTING SLAB AS INDICATED. PROVIDE NEW CONC. SLAB AS REQ'D - MATCH EXISTING
5. NEW COOLING TOWER RE: STRUCTURAL FOR NEW FOUNDATION. RE: MECHANICAL & ELECTRICAL. ADJUST LOCATION AS REQUIRED DUE TO EXISTING UTILITIES, COORDINATE WITH ARCHITECT.
6. DEMO EXISTING SCREEN WALL AND FOOTING. PROVIDE NEW CONC. CURB & SIDEWALK MATCH EXISTING. COORDINATE WITH ARCHITECT. COMPACT & FILL AS REQUIRED.

LEGEND :

- ESS — EXISTING SANITARY SEWER
- EW — EXISTING WATERLINE
- EE — EXISTING ELECTRICAL SERVICE
- EG — EXISTING GAS LINE
- E — NEW ELECTRICAL

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MECHANICAL / ELECTRICAL

KFC ENGINEERING
STRUCTURAL

STATE OF OKLAHOMA
MICHAEL L. ABLA
2639
REGISTERED ARCHITECT
1/28/26

CG
drawn by

MA
checked by

JANUARY 2026
date

revisions
1 ADDENDUM #1
2 ADDENDUM #2

MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

C100
COOLING TOWER PLAN

1 ENTIRE SHEET

1) GENERAL INFORMATION

A. GOVERNING BUILDING CODE: IBC-2018 "INTERNATIONAL BUILDING CODE".

B. BUILDING RISK CATEGORY: THE BUILDING RISK CATEGORY ACCORDING TO IBC-2018 TABLE 1604.5 AND ASCE 7-16 TABLE 1.5-1 IS CATEGORY II.

C. CONTRACT DOCUMENTS:

1) THE CONTRACT DOCUMENTS CONSIST OF THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR, CONDITIONS OF THE CONTRACT, DRAWINGS, SPECIFICATIONS, ADDENDA ISSUED PRIOR TO EXECUTION OF THE CONTRACT, OTHER DOCUMENTS LISTED IN THE AGREEMENT AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT.
2) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND DISSEMINATING ALL CONTRACT DOCUMENTS AND LATEST ADDENDA TO ALL SUB-CONTRACTORS PRIOR TO DETAILING, FABRICATION, OR INSTALLATION OF WORK.
3) CORRELATION OF THE CONTRACT DOCUMENTS: THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IF CONFLICTING REQUIREMENTS ARE FOUND BETWEEN THE DRAWINGS, SPECIFICATIONS AND/OR THESE GENERAL NOTES, THE MORE STRINGENT AND HIGHEST COST REQUIREMENT SHALL CONTROL UNLESS DIRECTED OTHERWISE IN WRITING BY THE OWNER'S REPRESENTATIVE.
4) THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DISCREPANCIES BETWEEN EACH SET, AND WITHIN EACH SET OF DRAWINGS, AND REPORT DISCREPANCIES, IF ANY, TO THE OWNER'S REPRESENTATIVE PRIOR TO THE DETAILING, FABRICATION, AND INSTALLATION OF AFFECTED WORK.
5) ALTHOUGH NOT NECESSARILY SPECIFICALLY REFERENCED IN THE CONTRACT DOCUMENTS, TYPICAL DETAILS AND GENERAL NOTES APPLY TO THE ENTIRE PROJECT WHEREVER CONDITIONS SIMILAR TO THOSE DETAILED OR NOTED EXIST.
6) THE USE OF ELECTRONIC FILES OR REPRODUCTION OF CONTRACT DOCUMENTS BY ANY TRADE OR MATERIAL SUPPLIER IN LIEU OF COMPLETELY INDEPENDENT PREPARATION OF SHOP DRAWINGS SIGNIFIES THE SUPPLIER'S CERTIFICATION THAT ALL INFORMATION SHOWN IN THE SHOP DRAWINGS IS CORRECT AND ASSIGNS THEMSELVES TO RESPONSIBILITY FOR ANY JOB EXPENSE ARISING DUE TO ANY ERRORS OCCURRING THEREIN.

D. FIELD MODIFICATIONS: CONTRACTOR OR SUBCONTRACTOR FIELD MODIFICATIONS TO THE STRUCTURE WITHOUT THE PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER ARE EXPRESSLY PROHIBITED AND MAY REQUIRE SUBSEQUENT REMEDIATION DIRECTED BY THE STRUCTURAL ENGINEER AT CONTRACTOR'S EXPENSE.

2) DESIGN LOADS

A. DEAD LOAD: SELF WEIGHT OF MATERIALS, UNLESS NOTED OTHERWISE

B. WIND LOADS:
1) RISK CATEGORY: II
2) EXPOSURE CATEGORY: C
3) TOPOGRAPHIC FACTOR, KZT: 1.0
4) DIRECTIONALITY FACTOR, KD: 0.85
5) ULTIMATE DESIGN WIND SPEED, Vult: .....109 MPH

C. SEISMIC DESIGN CRITERIA:
1) RISK CATEGORY: II
2) SEISMIC IMPORTANCE FACTOR, Ie: 1.00
3) SOIL SITE CLASSIFICATION: C
4) 0.2 SEC. MAPPED SPECTRAL ACCELERATION, Ss: 0.275
5) 1.0 SEC. MAPPED SPECTRAL ACCELERATION, S1: 0.079
6) SITE COEFFICIENT, 0.2 SEC. PERIOD, Fa: 1.20
7) SITE COEFFICIENT, 1.0 SEC. PERIOD, Fv: 1.70
8) 0.2 SEC. DESIGN SPECTRAL ACCELERATION, Sds: 0.220
9) 1.0 SEC. DESIGN SPECTRAL ACCELERATION, Sd1: 0.089
10) SEISMIC DESIGN CATEGORY: .....B

3) MATERIAL DESIGN VALUES

A. CONCRETE (MIN. COMPRESSIVE STRENGTH AT 28 DAYS, NORMAL WEIGHT U.N.O.)
1) ALL STRUCTURAL CONCRETE: .....4,500 PSI

B. CONCRETE REINFORCEMENT (MINIMUM YIELD STRENGTH)
1) ALL PLAIN AND DEFORMED BARS (ASTM A615, GRADE 60).....FY = 60 KSI

C. STRUCTURAL STEEL (MINIMUM YIELD STRENGTH)
1) ALL WIDE FLANGE SHAPES (ASTM A992).....FY = 50 KSI
2) ANCHOR RODS (ASTM F1554, GRADE 55, SUPPLEMENTARY REQUIREMENT S1, WELDABLE).....FY = 55 KSI
3) ALL OTHER SHAPES AND PLATES UNLESS NOTED (ASTM A36)....FY = 36 KSI (FABRICATOR MAY OPTIONALLY USE ASTM A572-50 PLATE MATERIAL)

4) CONCRETE CONSTRUCTION NOTES

A. GOVERNING CODES AND STANDARDS: IN ADDITION TO THE REQUIREMENTS OF THE GOVERNING INTERNATIONAL BUILDING CODE, ALL CONCRETE SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS AND AS SUPPLEMENTED BY THESE GENERAL NOTES AND THE PROJECT DRAWINGS AND SPECIFICATIONS.
1) ACI 117-10 "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"
2) ACI 301-10 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
3) ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
4) ACI 347-04 "GUIDE TO FORMWORK FOR CONCRETE"
5) ACI SP-66(04) "ACI DETAILING MANUAL"
6) AWS D1.4-2011 "STRUCTURAL WELDING CODE - REINFORCING STEEL".
7) CRSI MSP-2018 "CRSI MANUAL OF STANDARD PRACTICE"

B. CONCRETE MIXTURES:

1) CEMENTITIOUS MATERIALS
A) OPTION 1 - ORDINARY PORTLAND CEMENT (OPC): ASTM C150 TYPE I OR II UNLESS SPECIFICALLY NOTED OTHERWISE.
B) OPTION 2 - PORTLAND LIMESTONE CEMENT (PLC): ASTM C595 TYPE IL UNLESS SPECIFICALLY NOTED OTHERWISE.
C) FLY ASH: ASTM C618 CLASS C OR F. THE MAXIMUM PERCENTAGE OF FLY ASH SHALL NOT EXCEED 25 PERCENT OF THE TOTAL CEMENTITIOUS MATERIAL.

2) ALL CONCRETE MIXES SHALL BE COMPRISED OF NORMAL WEIGHT AGGREGATES CONFORMING TO ASTM C33.

3) MIXING WATER SHALL CONFORM TO ASTM C1062. MIXING WATER, INCLUDING THAT PORTION OF MIXING WATER CONTRIBUTED IN THE FORM OF FREE MOISTURE ON AGGREGATES, SHALL NOT CONTAIN DELETERIOUS AMOUNTS OF CHLORIDE IONS.

4) ADMIXTURES, IF USED, SHALL CONFORM TO THE FOLLOWING:
A) WATER REDUCTION AND SETTING TIME MODIFICATION: ASTM C494.
B) PRODUCING FLOWING CONCRETE: ASTM C1017.
C) AIR ENTRAINMENT: ASTM C260.
D) INHIBITING CHLORIDE INDUCED CORROSION: ASTM C1582.

5) MIX DESIGNS SHALL BE PROPORTIONED BASED ON THE FOLLOWING MIX CHARACTERISTICS;

A) FOUNDATIONS
1) FREEZING AND THAWING EXPOSURE CATEGORY (F): CLASS F2
2) SULFATE EXPOSURE CATEGORY (S): CLASS S0
3) WATER EXPOSURE CATEGORY (W): CLASS W0
4) CORROSION PROTECTION CATEGORY (C): CLASS C1
5) 28-DAY COMPRESSIVE STRENGTH: 4,500 PSI
6) MAXIMUM WATER/CEMENT RATIO: 0.45
7) MAXIMUM AGGREGATE SIZE: 1 1/2 INCHES
8) TARGET AIR CONTENT: 5.5 PERCENT PLUS OR MINUS 1.5 PERCENT
9) MAXIMUM WATER-SOLUBLE CHLORIDE ION CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENTITIOUS MATERIALS: 0.30

6) CONCRETE MIX PROPORTIONS SHALL BE ESTABLISHED IN ACCORDANCE WITH ARTICLE 4.2.3 OF ACI 301 SO THAT THE CONCRETE SATISFIES THE FOLLOWING THREE REQUIREMENTS:
A) THE CONCRETE CAN BE PLACED READILY WITHOUT SEGREGATION INTO FORMS AND AROUND REINFORCEMENT UNDER ANTICIPATED PLACEMENT CONDITIONS. THE CONCRETE PRODUCER SHALL DETERMINE WHETHER ADMIXTURES ARE NECESSARY FOR WATER REDUCTION, SET TIME, OR SLUMP REQUIREMENTS.
B) THE CONCRETE SHALL MEET REQUIREMENTS FOR THE ASSIGNED EXPOSURE CLASSES OUTLINED HEREIN.
C) THE CONCRETE SHALL CONFORM TO STRENGTH TEST REQUIREMENTS FOR STANDARD-CURED SPECIMENS.

7) DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE SUBMITTED FOR REVIEW BEFORE THE MIXTURE IS USED. EVIDENCE OF THE ABILITY OF THE PROPOSED MIXTURE TO COMPLY WITH THE CONCRETE MIXTURE REQUIREMENTS IN THE CONSTRUCTION DOCUMENTS SHALL BE INCLUDED IN THE SUBMITTAL. THE EVIDENCE SHALL BE BASED ON FIELD TEST RECORDS OR LABORATORY TRIAL BATCHES.

C. CONCRETE REINFORCING:

1) ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL, UNLESS OTHERWISE NOTED, SHALL FOLLOW ALL SECTIONS OF ACI MNL-66, ACI 318, AND THE CRSI MSP.

2) PROVIDE TIES COMPLYING WITH ACI 318 IN ALL CONCRETE PILASTERS. EVERY CORNER AND ALTERNATING LONGITUDINAL BAR SHALL HAVE A LATERAL SUPPORT PROVIDED BY THE CORNER OF A TIE WITH AN INCLUDED ANGLE ON NOT MORE THAN 135-DEGREES. NO UNSUPPORTED LONGITUDINAL BAR SHALL BE FARTHER THAN 6-IN. CLEAR ON EACH SIDE ALONG THE TIE FROM A LATERALLY SUPPORTED BAR.

D. FORMWORK FOR CAST-IN-PLACE CONCRETE:

1) THE DESIGN AND REMOVAL OF FORMWORK SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI 347.

2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, FABRICATION, INSTALLATION, AND REMOVAL OF FORMWORK. FORMWORK DESIGN SHALL CONSIDER THE FOLLOWING:
A) METHOD OF CONCRETE PLACEMENT.
B) RATE OF CONCRETE PLACEMENT.

3) FORMWORK FABRICATION AND INSTALLATION SHALL RESULT IN A FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES, AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.

4) FORMWORK SHALL BE SUFFICIENTLY TIGHT TO INHIBIT LEAKAGE OF PASTE AND MORTAR.

5) REMOVAL OF FORMWORK

A) NO CONSTRUCTION LOADS SHALL BE PLACED ON, NOR ANY FORMWORK REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH REMAINING FORMWORK HAS SUFFICIENT STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND LOADS PLACED THEREON AND WITHOUT IMPAIRING SERVICEABILITY.

B) THE ESTIMATE OF IN-PLACE CONCRETE STRENGTH SHALL BE BASED ON TESTS OF FIELD-CURED CYLINDERS OR ON OTHER PROCEDURES TO EVALUATE CONCRETE STRENGTH APPROVED BY THE LICENSED DESIGN PROFESSIONAL.

C) CONCRETE EXPOSED BY FORMWORK REMOVAL SHALL HAVE SUFFICIENT STRENGTH NOT TO BE DAMAGED BY THE REMOVAL.

E. CONCRETE MISCELLANEOUS:

1) CHAMFERED EDGES: UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES.

2) SURFACE FINISH: ALL VERTICAL CONCRETE SURFACES SHALL HAVE A RUBBED FINISH UNLESS NOTED OTHERWISE IN ARCHITECTURAL DRAWINGS.

5) STEEL CONSTRUCTION NOTES

A. GOVERNING CODES AND STANDARDS: IN ADDITION TO THE REQUIREMENTS OF THE GOVERNING INTERNATIONAL BUILDING CODE, ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND AS SUPPLEMENTED BY THESE GENERAL NOTES AND THE PROJECT DRAWINGS AND SPECIFICATIONS.
1) AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
2) AWS D1.1-2015 "STRUCTURAL WELDING CODE - STEEL"

B. STRUCTURAL BOLTS, ANCHOR RODS & BASE PLATES:

1) THE EMBEDDED ANCHOR ROD END SHALL HAVE EITHER A STANDARD BOLT HEAD, A HEAVY HEX NUT WITH THE THREADS SPOILED ABOVE AND BELOW THE NUT, OR JAMMED DOUBLE NUTS.

2) BASE PLATES SHALL BE LEVELED WITH LEVELING NUTS AND OVERSIZED WASHER PLATES OR WITH SHIM PACKS AT THE ERECTOR'S OPTION.

3) AFTER FINAL BASE PLATE POSITIONING, ANCHOR ROD NUTS SHALL BE INSTALLED TO A SNUG-TIGHT CONDITION AND WASHER PLATES SHALL BE FIELD WELDED AS INDICATED IN THE CONSTRUCTION DOCUMENTS.

C. STEEL FABRICATION & FINISH:

1) SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING FABRICATION. ANY FABRICATION INITIATED PRIOR TO APPROVAL OF SHOP DRAWINGS WILL BE AT THE SOLE RISK OF THE FABRICATOR.

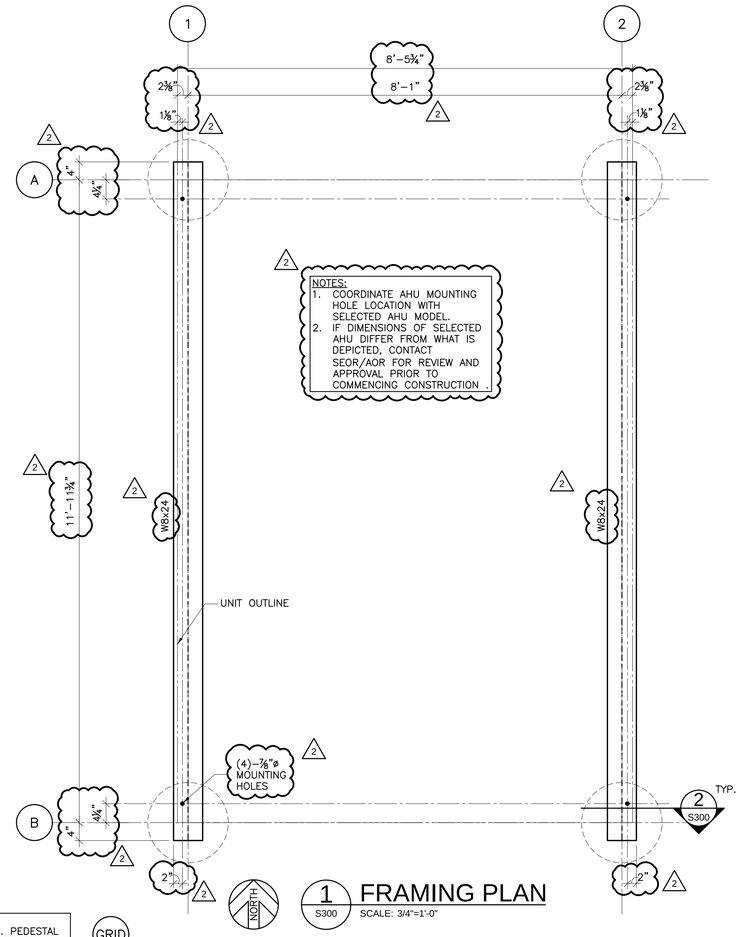
2) ALL SHOP AND FIELD WELDS SHALL BE MADE IN ACCORDANCE WITH AWS D1.1. ALL WELDING SHALL USE LOW HYDROGEN PROCESSES.

3) CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.

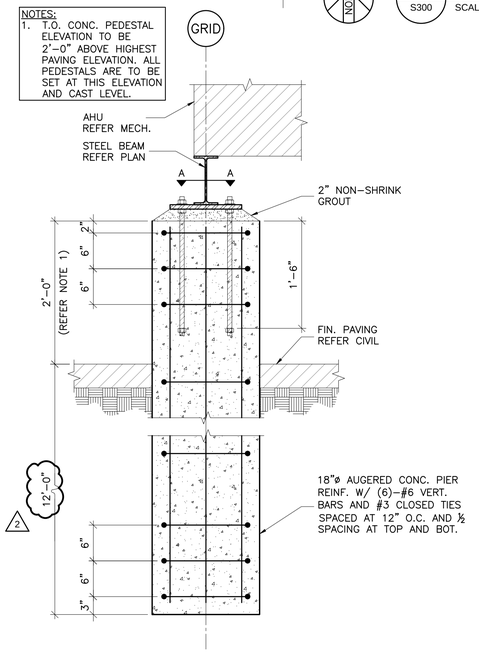
4) SHOP PRIMER
A) ALL STEEL EXPOSED TO EXTERIOR WEATHER OR AN UNCONTROLLED ENVIRONMENT SHALL BE BLAST CLEANED AND PRIMED WITH A SUBMITTED AND APPROVED ZINC-RICH PRIMER.
B) SHOP PRIMER SHALL NOT BE APPLIED TO THE FOLLOWING AREAS:
i) SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES.
ii) SURFACES TO BE FIELD WELDED.
iii) GALVANIZED SURFACES.

D. STEEL MISCELLANEOUS:

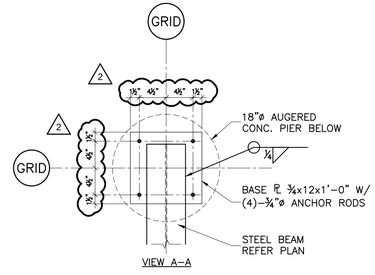
1) SUBSTITUTION OF POST-INSTALLED ANCHORS FOR EMBEDDED ANCHORS SHOWN ON THE DRAWINGS WILL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.



1 S300 FRAMING PLAN
SCALE: 3/4"=1'-0"



2 S300 SECTION
SCALE: 1"=1'-0"



VIEW A-A

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02/27/2026

CJC
drawn by

BWB
checked by

JANUARY 2026
date

revisions
1 ADD #1 02/11/2026
2 ADD #2 02/27/2026

MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

S300 1

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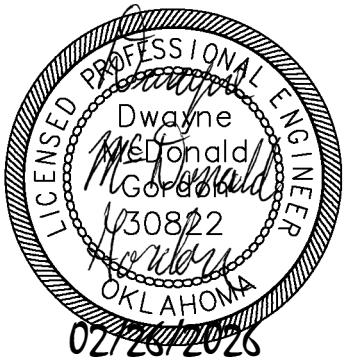
TABLE OF CONTENT – ADDENDUM NO. 2

ADDENDUM 02



Issue Date: February 26, 2026

Project Information

Client: Abla Griffin Partnership
Project Name: Wayland Bonds Elem – HVAC
Project Location: OKC, OK
Owner: Moore Public Schools
Engineer: Salas O'Brien, LLC

Project No. 2550-01871-00

To Prospective Bidders

- This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated January 28, 2026, (and previous Addenda), with amendments and additions noted below.
- This Addendum consists of (2) pages and (13) attachments.
    - Index of Attachments
        - ED201 M101
        - E201 M102
        - E501 M501
        - E602 M601
        - MD101 M901
        - MD102
- Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may disqualify Bidder.

CHANGES TO THE SPECIFICATIONS

- SECTION 23 65 41– Package Steel Cooling Tower
    - No substitutions.
- SECTION 23 81 46 – Water to Air Heat Pump Units
    - No substitutions.

CHANGES TO THE DRAWINGS

Revisions have been made to the following drawings and are issued in the form of full-size plans. Edits are indicated by a revision delta and a cloud surrounding the affected portion of the drawing.

- ED201 – ELECTRICAL DEMOLITION POWER PLAN - EAST
  - Refer to clouds and deltas for changes on plan.
- E201 – ELECTRICAL POWER PLAN - EAST
  - Refer to clouds and deltas for changes on plan.
- E501 – ELECTRICAL DETAILS
  - Refer to clouds and deltas for changes on plan.
- E602 – ELECTRICAL SCHEDULES
  - Refer to clouds and deltas for changes on plan.
- MD101 – MECHANICAL DEMOLITION PLAN - EAST
  - Refer to clouds and deltas for changes on plan.
- MD102 – MECHANICAL DEMOLITION PLAN - WEST
  - Refer to clouds and deltas for changes on plan.
- M101 – MECHANICAL PLAN - EAST
  - Refer to clouds and deltas for changes on plan.
- M102 – MECHANICAL PLAN - WEST
  - Refer to clouds and deltas for changes on plan.
- M501 – MECHANICAL DETAILS
  - Refer to clouds and deltas for changes on plan.
- M601 – MECHANICAL SCHEDULES
  - Refer to clouds and deltas for changes on plan.
- M901 – MECHANICAL 3D VIEWS
  - Refer to clouds and deltas for changes on plan.

END OF ADDENDUM [02]

SECTION 23 65 41

PACKAGED STEEL COOLING TOWER

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish and install a packaged stainless steel cooling tower as shown on the drawings with the following characteristics.
   1. Single or two-cell as indicated.
   2. Induced draft.
   3. Vertical discharge.
   4. Cross flow or counter flow.

1.2 RELATED WORK

A. Division 23 Mechanical
   1. Condenser water piping.
   2. Building Management Control System.
   3. Chemical treatment.
   4. Electrical Provisions for Mechanical Work.
   5. Valves.

1.3 PERFORMANCE

A. Provide performance as scheduled on Drawings. Certify in accordance with the standards of the cooling tower institute.

B. Sound levels and safety features shall be in compliance with latest OSHA requirements.
   1. Sound levels shall not exceed 85dB.

1.4 SUBMITTAL

A. Shop drawing submittal includes, but is not limited to the following:
   1. Manufacturer's certified capacity curve with selections plotted.
   2. Shop drawings and product data.
   3. Foundation requirements and operating weights.
   4. Manufacturer's installation, start-up and service instructions.
   5. Submit a chart of specific sound power level at each octave band center frequency.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Baltimore Aircoil Company.

B. No substitutions.

2.2 UNIT HOUSING

A. Construct the unit housing of no less than 14 gauge Type 304 stainless steel.

B. Cold water basin shall be fully welded Type 304 stainless steel.

C. Inlet louvers shall be wave formed, fiberglass-reinforced polyester (FRP) spaced to minimize air resistance and prevent water splash-out.

D. Capable of withstanding wind velocity of 100 mph without damage.

2.3 FAN MOTOR

A. Select the motor so the brake horsepower required to deliver the design air quantity at the tower static pressure will not exceed the motor nameplate rating.
   1. Single speed, variable or 2-speed single winding 1800/900 rpm as scheduled.
   2. Permanently lubricated, and ball bearing type.
   3. 1.15 service factor.
   4. Premium Efficiency TEFC.
   5. Inverter compatible for variable speed applications.
   6. Cast iron material.
   7. Will not exceed the motor nameplate rating.
   8. Motor shall be out of the air stream.

2.4 FAN

A. Blades shall be slow speed, aerodynamically designed propeller type.

B. Coat fan blades and hub with corrosion resistant material.

C. Fabricate fan Venturi to provide eased inlet contour.
   1. 304 stainless steel wire ring type fan guard.

D. Provide five-year parts and labor warranty for gear drives.

2.5 FAN BEARING

A. Grease lubricated and self-aligning.

2.6 FILL

A. Fill and eliminator shall be non-corrosive and non-ferrous.
   1. Polyvinyl chloride plastic material.

B. The material shall be fire resistant and meet the provisions of ASTM E84 with a maximum flame spread rate of 25.
   1. Meet the provisions of ASTM E 84 with a maximum flame spread rate of 25.

C. Drift loss shall be less than 0.2% of flow rate.

2.7 HOT WATER DISTRIBUTION SYSTEM

A. Hot water distribution basin shall be the open basin gravity feed type or pressurized spray system.
   1. Plastic diffuser metering orifices.

B. Provide 304 stainless steel removable hot water basin covers.

2.8 BASIN ACCESSORIES

A. Side or bottom outlet as shown on the drawings with flange or grooved connections.

B. Adjustable brass make-up float valve assembly.

C. Drain outlet fitting with grooved connection.

D. Overflow outlet fittings with grooved connection.

E. Stainless steel strainer with antivortexing plate.

F. Quick fill connection.

G. Equalizer piping connection.

H. Bypass inlet fitting with grooved connection.

I. Basin heater.

2.9 COOLING TOWER MAKE-UP WATER SYSTEM

A. Precise water level control to within 1/8” of operating range

B. Operating range of up to 6”.

C. Controller with a fill height, high level alarm, low level alarm, fault indicators and diagnostic self-test button.

D. Watertight, dust tight, corrosion resistant NEMA 4x enclosure.

E. Mount bracket, U-bolts with a 20” long, 3” diameter PVC pipe standpipe stilling well, with ¼” stainless steel probes.

F. Stainless Steel mounting bracket.

G. 120/1/60 electrical characteristics.

H. Provide a 2" motorized ball valve Belimo model #B249 VS and a Belimo actuator model #SY2-110.

I. Stainless steel probe assembly with 50 ft. – 350 foot. Maximum wire length.

J. Manufactured by Waterline Controls model #WLC5000-120VAC

2.10 VIBRATION SWITCH

A. Electromechanical Design.

B. NEMA 4X weatherproof enclosure.

C. Remote Reset.

D. Detect shock/vibration in three planes of motion.

E. Sensitivity adjustment.

F. Two SPDT snap switches.

G. Time delay.

H. Acceptable Manufacturers
1. Frank W. Murphy
2. Metrix Instrument Co.

2.11 OIL LEVEL SWITCH

A. Explosion proof case.

B. External site indication gauge.

C. 304 stainless steel float.

D. DPDT contacts.

E. Acceptable Manufacturers
1. Frank W. Murphy.

2.12 SERVICE ACCESS (Per Cell)

A. Provide an external service platform with ladder and supports to provide access inside tower.
1. Provide a plenum walkway inside of tower.

B. Provide an external service platform with ladder and supports to provide access to service motor.

C. Provide an external ladder and perimeter handrails for access to top of tower.
1. Provide OSHA approved safety cage and ladder.

D. All ladders shall have extensions to ground level.

2.13 ADDITIONAL ACCESSORIES

A. Provide (1) davit for each cell to assist in removal of gear drive and motors.

B. Provide an external ladder and perimeter handrails for access to top of tower.

C. Provide OSHA approved safety cage and ladder.

D. Plenum walkway.

E. All ladders shall have extensions to ground level.

PART 3 - EXECUTION

3.1 MANUFACTURER INSTALLATION REQUIREMENTS

A. Install all field accessories including but not limited to the following items not installed at factory:
   1. Upper fan cylinder.
   2. Fan guard.
   3. Distribution flume baffles.
   4. Motor supports.
   5. Motor and shaft.
   6. Vibration & oil level switch.
   7. Handrails.
   8. Ladder and extension.
   9. Safety Cage.
   10. Service access platform.
   11. Plenum walkway.
   12. Davit.
   13. Perimeter handrail, knee rail and toe board.

B. Provide a factory-trained technician to supervise the installation of the cooling tower.

C. Built-in-place cooling tower erection on the structural foundation is by the manufacturer.

D. Tower support design is based upon the scheduled tower. Coordinate revised support requirements if an alternate tower is furnished.

3.2 MANUFACTURER START-UP SERVICE AND ALIGNMENT

A. Start-up the system in accordance with the manufacturer's installation, start-up and service instructions.

B. Technician shall be responsible for final checkout, adjustment and initial start-up of the tower.
   1. Correct operation of make-up water float valves.
   2. Correct setting of vibration cutout switches.
   3. Correct setting of oil level switches.
   4. Alignment of drive shaft.
   5. Fill basin with water and adjust operating level with pumps and towers energized.
   6. Clean hot and cold water basins.

C. Provide a written start-up report for inclusion in the Owner’s Operating and Maintenance Manual.

3.3 CAPACITY TEST

A. Test the capacity of the cooling tower upon completion and when load available is adequate for test. The test shall be in accordance with the latest version of the Cooling Tower Institute’s Acceptance Test Procedure. Test in the presence of a CTI test observer. The tower manufacturer shall pay for the test.

B. If the capacity test indicates a deficiency, the cooling tower manufacturer will alter the tower to overcome the deficiency. If the deficiency cannot be corrected, the tower manufacturer shall compensate the purchaser with the addition of cooling tower capacity or a refund of percentage of the contract price proportional to the deficiency. Owner shall choose the compensation.

3.4 COOLING TOWER MAKE-UP WATER SYSTEM

A. Install all field accessories inside tower.

B. Coordinate field wiring to controller from sensor probe.

C. Coordinate sensor wire length minimum 50 ft. – 350 ft. maximum to control panel.

3.5 TRAINING

A. The tower manufacturer shall provide two hours of on-site training for two Owner's representatives to include the topics of use and maintenance of the cooling tower.

END SECTION

SECTION 23 81 46

WATER TO AIR HEAT PUMP UNIT

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Furnish and install water to air heat pump units.

1.2 RELATED WORK

A. Division 23 Mechanical
   1. Electrical provisions of mechanical work.
   2. Pipe and pipe fittings.
   3. Vibration isolation.

1.3 REFERENCES

A. AHRI 320 – Water Source Heat Pumps.

B. AHRI 410 – Forced Circulation Air Cooling and Air Heating Coils.

C. National Electrical Code.

1.4 SUBMITTALS

A. Submit manufacturer's dimensioned product data sheets.
   1. Show location of filter access doors.

B. Submit fan performance curve for each unit:
   1. Plot fan volume against static pressure, horsepower and efficiency.
   2. Show point of rating based on static requirements of the system.

C. Submit the fan performance plot at each motor speed position with consideration for the reduced internal static.

D. Submit a chart of specific sound power level at each octave band center frequency.

E. Submit manufacturer's certified heating and cooling coil capacity data.

F. Submit filter manufacturer's product data sheets and capacity information.

G. Submit manufacturer's data on housing insulation material.

1.5 WARRANTY

A. Provide a manufacturers warranty to include parts and labor for a period of two years from substantial completion.

1.6 ACCEPTABLE MANUFACTURERS

A. Climate Master.

B. No substitutions.

PART 2 - PRODUCTS

2.1 COMPONENTS

A. Hermetic compressors.

B. DX coil sections.

C. Condensate drain pan lined.

D. Water cooled heat exchanger.

E. Unit capacity as scheduled.

2.2 CONTROL SYSTEM

A. Control system shall be factory wired.
   1. Installed so that the unit can be serviced without shutting down the system.
   2. Panel wiring shall be UL approved.
   3. Each circuit fused.

B. Safety devices shall be monitored and interlocked to prohibit compressor short cycling.

C. Provide identified terminal strips for low voltage terminal wiring.

D. Provide equipment for heat pump reverse cycle operation.

E. Provide with BACNET control interface.

2.3 EVAPORATOR FAN ASSEMBLY

A. Provide with:
   1. V-belt drive assembly and motor with totally enclosed belt guard.

B. Drive assembly:
   1. Sized for 50% overload.
   2. Matched belts.

C. Provide adjustable pitch motor pulley.

D. Provide motor and fan pulley of cast iron keyed to the shaft.

E. Motor selected so that the brake horsepower required to deliver the design air quantity at the system static pressure will not exceed the motor nameplate rating.

F. Supply fans shall be double width, double inlet, forward curve blades.

G. Fans shall be:
   1. Statically and dynamically balanced.
   2. Tested after being installed in the fan sections.
   3. Selected for the design air quantities and pressure of the system.
   4. Mounted on a common shaft if multiple wheels.

H. Select fan to operate at or near its maximum efficiency point when handling the required

air quantity and static pressure.

I. Nominal fan outlet velocities shall not exceed 1800 fpm.

J. Fan bearings:
1. Permanently lubricated.
2. Self-aligning.
3. Selected for an average life of 200,000 hours.

2.4 CONDENSATE DRAIN PANS

A. IAQ style drain pans shall be provided under all coils.
1. Pitch to drain connection.
2. Fabricated from 16 gauge 304 stainless steel.
3. Triple pitched for complete drainage with no standing water.
4. Insulated to prevent condensation.
5. Welded corners.
6. Stainless drain connection.

2.5 EVAPORATOR COIL

A. Reference Schedule and Specification Section 23 82 16.

2.6 WATER COOLED HEAT EXCHANGER

A. Tube-in-tube or shell and coil condenser with continuous copper tubing.
1. Construction shall be in accordance with ASME safety code.

2.7 CONDENSER COIL PIPING CONNECTION

A. Provide a flexible stainless steel braided hose.
1. Minimum of two feet long.
2. Fixed MPT on one end and a swivel with adapter on the other.
3. Suitable for water temperatures ranging from 23°F to 211°F without the use of glycol.

B. Reference Details and Specification Section 23 05 23.

2.8 CABINET

A. Corrosion resistant galvanized steel construction

B. Provide a duct flange on four sides of the return air inlet and supply air outlet of the unit.
1. Sized to permit connection of the flexible connection to the ductwork.
2. Extend beyond the primary drain pan.
3. Minimum dimension 2".

C. Provide insulated, removable panels for access to the interior.
1. Plated captive screws and nuts.
2. Neoprene gaskets.

D. Internally insulate the entire unit with neoprene coated, 1-1/2 lb. density glass fiber insulation, applied to internal surfaces with adhesive and weld pins. Coat exposed edges of insulation with adhesive.

E. Insulation, vapor barriers, facings and adhesives:

1. Flame spread not higher than 25.
2. Smoke developed rating not higher than 50.

F. Condensation on the exterior of the cabinet is not approved.

2.9 COMPRESSOR

A. Equip each compressor with:
1. High and low pressure protection.
2. Loss of charge protection.
3. Current sensitive overload relays.

B. Provide suitable vibration isolators.

C. Locate the compressors in a sound attenuating compartment located in the unit cabinet.

D. Provide refrigerant not scheduled for phase out.

E. Provide each refrigeration compressor with a parts and labor warranty against failure for a period of five years from the date of acceptance.
1. The warranty shall indicate model, serial number of the unit and commencing date. (Commencing date shall not start prior to substantial completion.)
2. The warranted compressor assembly consists of the starter, rotor, eccentric shaft, eccentric rods, pistons, wrist pins, suction valves, discharge valves, unloading mechanisms, oil pump, and the housing in which these parts are enclosed.

2.10 FILTERS

A. Filter section shall contain 1" thick disposable filters.

B. Arrange the filter section to permit filter change without unit shutdown or cabinet panel removal.
1. Give particular attention to construction of filter section to ensure easy removal of filters.

2.11 SPACE THERMOSTAT

A. Provide a space thermostat for remote wall mounting.

PART 3 - EXECUTION

3.1 SPARE PARTS

A. Provide the following spare parts and material to the Owner for use after the warranty period.
1. One spare fan motor for each size of fan motor on the project.
2. One spare set of filters or filter media for each fan coil unit on the project .

3.2 ELECTRICAL REQUIREMENTS

A. Bring electrical connections to a common junction box.

3.3 STORAGE

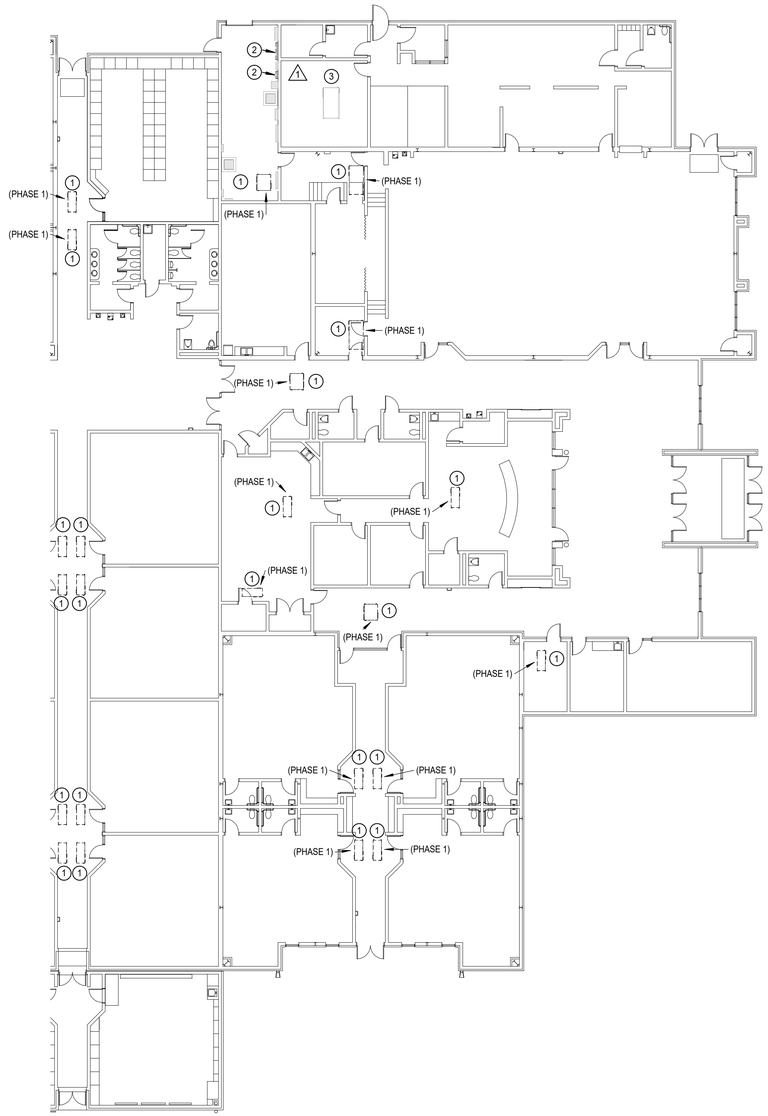
A. Storage and shipping in accordance with manufacturer's recommendations.

3.4 INSTALLATION

A. Install and start-up the system in accordance with the manufacturer's installation start-up and service instructions.

B. The heat pump unit shall be self-contained, factory assembled.
1. Pressure tested, dehydrated and charged with refrigerant and oil.

END OF SECTION



1 ELECTRICAL DEMOLITION POWER PLAN - EAST

Scale: 1/16" = 1'-0"

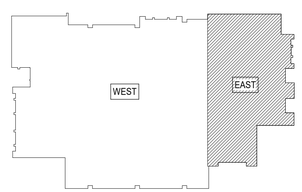
DEMOLITION GENERAL NOTES

1. THESE DEMOLITION PLANS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF DEMOLITION WORK TO BE INCLUDED IN THIS PROJECT. THE CONTRACTOR SHOULD REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING DEMOLITION SHOWN FOR OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, IN ORDER TO DETERMINE THE SCOPE OF DEMOLITION WORK.
2. EXISTING CONDUIT AND WIRING MAYBE REUSED IF IN SERVICEABLE CONDITION, OTHERWISE PROVIDE NEW CONDUIT AND WIRE AS REQUIRED. NEW DEVICES AND FIXTURES SHALL BE CIRCUITED TO NEW PANELS AS INDICATED. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY ANOMALIES TO THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.
3. DEMOLITION PLAN INFORMATION SHOWN AT TIME OF DESIGN. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND MAKE ANY NECESSARY CHANGES TO COMPLETE THE WORK.
4. REMOVE ALL UNUSED WIRING AND CONDUIT AS PART OF THE DEMOLITION PROCESS.

ELECTRICAL KEYED NOTES

	1	EXISTING WATER SOURCE HEAT PUMP TO BE DEMOLISHED AND REPLACED WITH NEW. RETAIN CONDUIT/WIRING FOR CONNECTION TO NEW UNIT. REFER TO SHEET 'E201' FOR ADDITIONAL INFORMATION.
	2	DEMOLISH EXISTING ELECTRICAL PANEL. RETAIN BRANCH CIRCUIT FEEDERS FOR RECONNECTION IN NEW ELECTRICAL PANEL. REFER TO SHEET 'E201' FOR MORE INFORMATION.
1	3	EXISTING WATER SOURCE HEAT PUMP TO REMAIN. REFER TO SHEET 'E201' FOR ADDITIONAL INFORMATION.

2 FULL SHEET



KEY PLAN

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, Suite 120
Moore, OK 73160
CA#: 7058 Expiration Date: 06/30/2027
Salas O'Brien Project Number: 2550-01872-00

AGP
the Abla Griffin Partnership L.L.C.

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CEDAR CREEK
CIVIL

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

DWG
drawn by

TVO
checked by

JANUARY 2026
date

REVISIONS

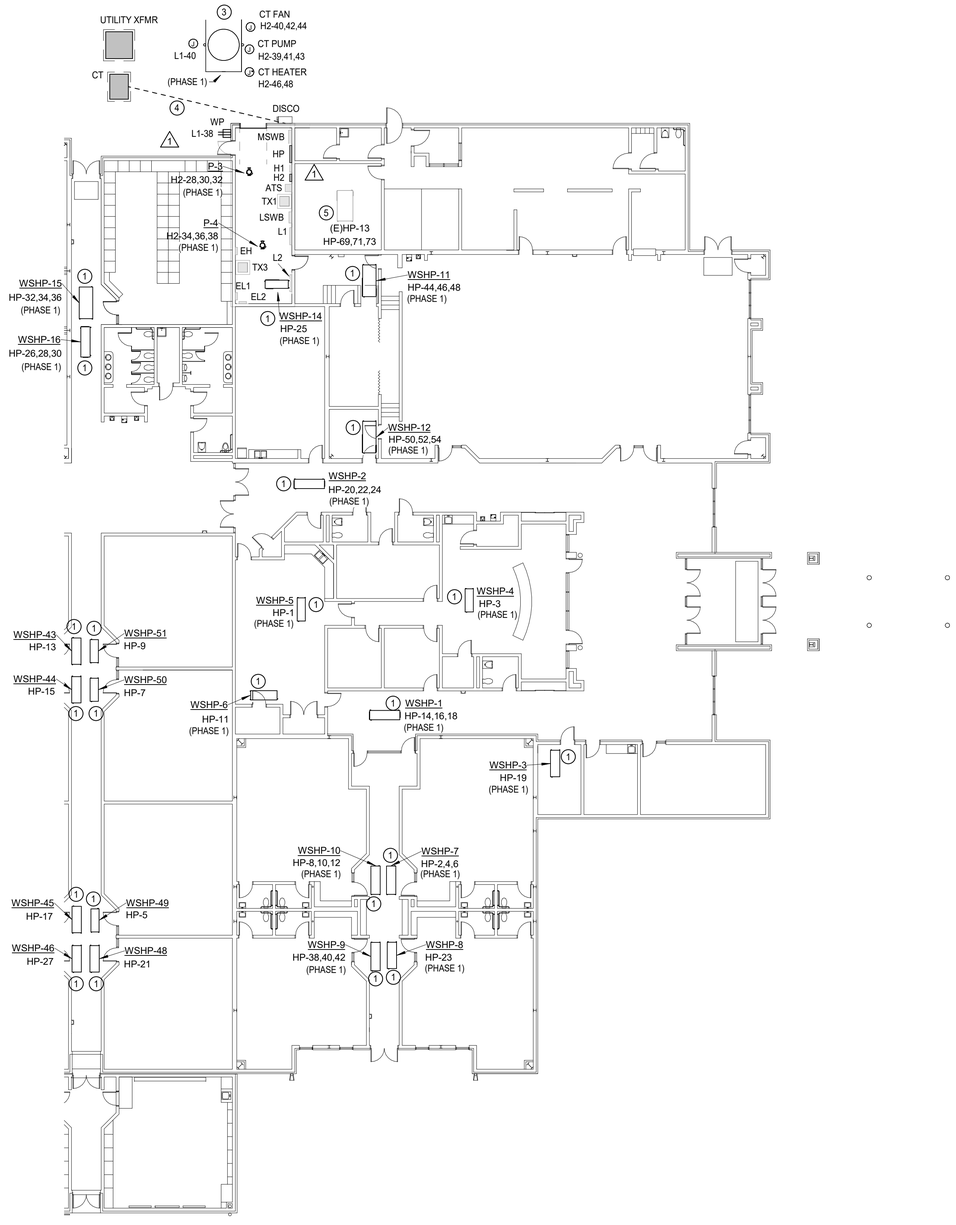
Δ	DESCRIPTION	DATE
1	ADD 01	02/24/2026
2	ADD 02	02/26/2026

MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

ED201



1 ELECTRICAL POWER PLAN - EAST

Scale: 1/16" = 1'-0"

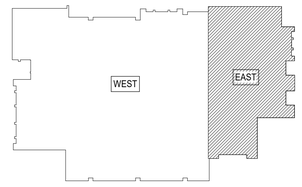
GENERAL NOTES

1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATION OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
3. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
4. COORDINATE EXACT LOCATION OF PLUMBING EQUIPMENT WITH PLUMBING CONTRACTOR. REFER TO PLUMBING PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
5. COORDINATE THE EXACT REQUIREMENTS OF ALL POWER CONNECTION FIXTURES AND DEVICES WITH THE ARCHITECT, OWNER AND MANUFACTURER PRIOR TO ROUGH-IN.
6. ALL RECEPTACLES LOCATED AT COUNTERTOP HEIGHT SHALL BE ORIENTED HORIZONTALLY.
7. FIRE STOP ALL PENETRATIONS IN FIRE AND SMOKE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND ADDITIONAL INFORMATION

ELECTRICAL KEYED NOTES

1	CONNECT NEW WATER SOURCE HEAT PUMP TO THE REPLACEMENT ELECTRICAL PANEL 'HP'. PROVIDE NEW BREAKER, CONDUIT, AND WIRING AS REQUIRED TO FEED NEW UNIT. EXISTING CONDUIT AND WIRING RETAINED FROM DEMO MAY BE REUSED WHERE IN SERVICEABLE CONDITION AND SIZED APPROPRIATELY FOR NEW UNIT CONNECTION. ALL REUSED MATERIALS SHALL BE WARRANTIED AS IF NEW. REFER TO SHEET 'E601' FOR MORE INFORMATION.
3	PROVIDE MULTIPLE ELECTRICAL CONNECTIONS FOR COOLING TOWER AS INDICATED. INCOMPLETE CONNECTION INFORMATION PROVIDED FROM THE EQUIPMENT MANUFACTURER AT THE TIME OF DESIGN. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. ADJUST CONNECTION QUANTITIES AND RATINGS AS NECESSARY. COORDINATE ANY CHANGES WITH THE ENGINEER PRIOR TO PROCEEDING.
4	INTERCEPT EXISTING FEED BETWEEN CT CABINET AND MSWB TO ADD NEW EXTERIOR RATED SERVICE DISCONNECT. EXISTING CONDUIT AND WIRING MAY BE REUSED WHERE IN SERVICEABLE CONDITION AND RATED APPROPRIATELY. OTHERWISE, PROVIDE NEW CONDUIT AND WIRING AS INDICATED.
5	EC TO RECONNECT EXISTING WATER SOURCE HEAT PUMP TO REPLACEMENT ELECTRICAL PANEL 'HP'. PROVIDE BREAKER AS INDICATED ON SHEET 'E602'.

2 FULL SHEET



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1	ADD 01	02/24/2026
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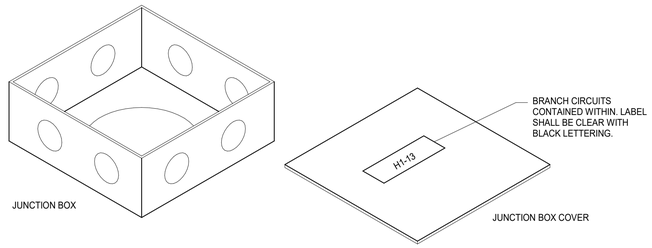
MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

E201



1 TYP. JUNCTION BOX DETAIL

Scale: N.T.S.

MECHANICAL EQUIPMENT COORDINATION SCHEDULE

TAG	Description	Voltage	Phase	Apparent Load	MCA	MOCP	Disconnect Type	Disco. Furnished By	Disco. Installed By
(E)HP-13	EXISTING WATER SOURCE HEAT PUMP	480	3	25.3 kVA	33.8	40	EXISTING	EXISTING	EXISTING
(E)HP-22	EXISTING WATER SOURCE HEAT PUMP	277	1	3.3 kVA	15.6	20	EXISTING	EXISTING	EXISTING
(E)HP-24	EXISTING WATER SOURCE HEAT PUMP	277	1	4.0 kVA	15.6	20	EXISTING	EXISTING	EXISTING
(E)HP-27	EXISTING WATER SOURCE HEAT PUMP	480	3	7.5 kVA	15.6	20	EXISTING	EXISTING	EXISTING
(E)HP-31	EXISTING WATER SOURCE HEAT PUMP	277	1	4.0 kVA	15.6	20	EXISTING	EXISTING	EXISTING
P-3	PUMP	480	3	9.1 kVA	14.0	25	VFD	MC	EC
P-4	PUMP	480	3	9.1 kVA	14.0	25	VFD	MC	EC
WSHP-1	WATER SOURCE HEAT PUMP	480	3	11.7 kVA	15.6	20	NON-FUSED	MC	EC
WSHP-2	WATER SOURCE HEAT PUMP	480	3	11.7 kVA	15.6	20	NON-FUSED	MC	EC
WSHP-3	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-4	WATER SOURCE HEAT PUMP	277	1	3.5 kVA	14.0	20	NON-FUSED	MC	EC
WSHP-5	WATER SOURCE HEAT PUMP	277	1	3.5 kVA	14.0	20	NON-FUSED	MC	EC
WSHP-6	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-7	WATER SOURCE HEAT PUMP	480	3	11.7 kVA	15.6	20	NON-FUSED	MC	EC
WSHP-8	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-9	WATER SOURCE HEAT PUMP	480	3	11.7 kVA	15.6	20	NON-FUSED	MC	EC
WSHP-10	WATER SOURCE HEAT PUMP	480	3	11.7 kVA	15.6	20	NON-FUSED	MC	EC
WSHP-11	WATER SOURCE HEAT PUMP	480	3	17.2 kVA	23.0	30	NON-FUSED	MC	EC
WSHP-12	WATER SOURCE HEAT PUMP	480	3	17.2 kVA	23.0	30	NON-FUSED	MC	EC
WSHP-14	WATER SOURCE HEAT PUMP	277	1	4.2 kVA	17.0	25	NON-FUSED	MC	EC
WSHP-15	WATER SOURCE HEAT PUMP	480	3	12.0 kVA	16.0	20	NON-FUSED	MC	EC
WSHP-16	WATER SOURCE HEAT PUMP	480	3	11.7 kVA	15.6	20	NON-FUSED	MC	EC
WSHP-17	WATER SOURCE HEAT PUMP	480	3	12.0 kVA	16.0	20	NON-FUSED	MC	EC
WSHP-18	WATER SOURCE HEAT PUMP	480	3	12.0 kVA	16.0	20	NON-FUSED	MC	EC
WSHP-19	WATER SOURCE HEAT PUMP	480	3	12.0 kVA	16.0	20	NON-FUSED	MC	EC
WSHP-20	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-21	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-23	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-25	WATER SOURCE HEAT PUMP	480	3	12.0 kVA	16.0	20	NON-FUSED	MC	EC
WSHP-29	WATER SOURCE HEAT PUMP	480	3	11.7 kVA	15.6	20	NON-FUSED	MC	EC
WSHP-30	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-32	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-33	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-34	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-35	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-36	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-37	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-39	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-40	WATER SOURCE HEAT PUMP	277	1	3.5 kVA	14.0	20	NON-FUSED	MC	EC
WSHP-41	WATER SOURCE HEAT PUMP	277	1	3.5 kVA	14.0	20	NON-FUSED	MC	EC
WSHP-42	WATER SOURCE HEAT PUMP	277	1	3.5 kVA	14.0	20	NON-FUSED	MC	EC
WSHP-43	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-44	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-45	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-46	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-48	WATER SOURCE HEAT PUMP	277	1	4.0 kVA	16.2	25	NON-FUSED	MC	EC
WSHP-49	WATER SOURCE HEAT PUMP	277	1	3.5 kVA	14.0	20	NON-FUSED	MC	EC
WSHP-50	WATER SOURCE HEAT PUMP	277	1	3.5 kVA	14.0	20	NON-FUSED	MC	EC
WSHP-51	WATER SOURCE HEAT PUMP	277	1	3.5 kVA	14.0	20	NON-FUSED	MC	EC
CT FAN	COOLING TOWER FAN	480	3	28.3 kVA	43	80	VFD	MC	EC
CT PUMP	COOLING FAN TOWER PUMP	480	3	6.3 kVA	8	20	VFD	MC	EC
CT HEATER	COOLING TOWER HEATER	480	1	6.0 kVA	13	20	NON-FUSED	EC	EC

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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

DWG
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JANUARY 2026
date

REVISIONS

Δ	DESCRIPTION	DATE
1	ADD 01	02/24/2026
2	ADD 02	02/26/2026

MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

E501

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, Suite 120
Moore, OK 73160
CA#: 7058 Expiration Date: 06/30/2027
Salas O'Brien Project Number: 2550-01872-00

Branch Panel: H2

Location:
Supply From: MSWB
Mounting: Surface

Volts: 277/480 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Enclosure: Type 1
Mains: 600A MLO

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
	1	EXISTING		20	1	59.1 / 0.0			1	20		EXISTING	2	
	3	EXISTING		20	1		58.9 / 0.0		1	20		EXISTING	4	
	5	EXISTING		20	1			56.3 / 0.0	1	20		EXISTING	6	
	7	EXISTING		20	1	0.0 / 0.0			1	20		EXISTING	8	
	9	EXISTING		20	1		0.0 / 0.0		1	--		SPACE	10	
	11	EXISTING		20	1			0.0 / 0.0	1	20		EXISTING	12	
	13	EXISTING		20	1	0.0 / 0.0							14	
	15	EXISTING		20	1		0.0 / 0.0		3	40		EXISTING	16	
	17	EXISTING		20	1			0.0 / 0.0					18	
	19					0.0 / 0.0							20	
	21	EXISTING		40	3		0.0 / 0.0		3	40		EXISTING	22	
	23							0.0 / 0.0					24	
	25					0.0 / 0.0			1	20		EXISTING	26	
	27	EXISTING		60	3		0.0 / 3.0						28	
	29							0.0 / 3.0	3	25	#10	P-3	30	
	31	EXISTING		20	2	0.0 / 3.0							32	
	33						0.0 / 3.0						34	
	35	EXISTING		20	2			0.0 / 3.0	3	25	#10	P-4	36	
	37					0.0 / 3.0							38	
	39						2.1 / 9.4						40	
	41	CT PUMP	#12	20	3			2.1 / 9.4	3	80	#3	CT FAN	42	
	43					2.1 / 9.4							44	
	45						0.0 / 3.0		2	20	#12	CT HEATER	46	
	47							0.0 / 3.0					48	
	49												50	
	51												52	
	53												54	
			Total Load:			76.8 kVA	79.5 kVA	76.9 kVA						
			Total Amps:			277 A	287 A	278 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	9.1 kVA	100.00%	9.1 kVA		
Miscellaneous	40.6 kVA	100.00%	40.6 kVA	**Total Conn. Load:**	233.2 kVA
Motor	9.1 kVA	100.00%	9.1 kVA	**Total Est. Demand:**	233.2 kVA
Spare	174.3 kVA	100.00%	174.3 kVA	**Total Conn. Current:**	281 A
				Total Est. Demand Current:	281 A

Notes:
NEW PANEL

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

Branch Panel: HP

Location:
Supply From: MSWB
Mounting: Surface

Volts: 277/480 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Enclosure: Type 1
Mains: 600A MLO

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
	1	WSHP-5	#12	20	1	3.5 / 3.9							2	
	3	WSHP-4	#12	20	1		3.5 / 3.9		3	20	#12	WSHP-7	4	
	5	WSHP-49	#12	20	1			3.5 / 3.9					6	
	7	WSHP-50	#12	20	1	3.5 / 3.9							8	
	9	WSHP-51	#12	20	1		3.5 / 3.9		3	20	#12	WSHP-10	10	
	11	WSHP-6	#10	25	1			4.0 / 3.9					12	
	13	WSHP-43	#10	25	1	4.0 / 3.9							14	
	15	WSHP-44	#10	25	1		4.0 / 3.9		3	20	#12	WSHP-1	16	
	17	WSHP-45	#10	25	1			4.0 / 3.9					18	
	19	WSHP-3	#10	25	1	4.0 / 3.9							20	
	21	WSHP-48	#10	25	1		4.0 / 3.9		3	20	#12	WSHP-2	22	
	23	WSHP-8	#10	25	1			4.0 / 3.9					24	
	25	WSHP-14	#10	25	1	4.2 / 3.9							26	
	27	WSHP-46	#10	25	1		4.0 / 3.9		3	20	#12	WSHP-16	28	
	29	WSHP-40	#12	20	1			3.5 / 3.9					30	
	31	WSHP-41	#12	20	1	3.5 / 4.0							32	
	33	WSHP-42	#12	20	1		3.5 / 4.0		3	20	#12	WSHP-15	34	
	35	WSHP-32	#10	25	1			4.0 / 4.0					36	
	37	WSHP-33	#10	25	1	4.0 / 3.9							38	
	39	WSHP-34	#10	25	1		4.0 / 3.9		3	20	#12	WSHP-9	40	
	41	WSHP-35	#10	25	1			4.0 / 3.9					42	
	43	WSHP-36	#10	25	1	4.0 / 5.7							44	
	45	WSHP-39	#10	25	1		4.0 / 5.7		3	30	#10	WSHP-11	46	
	47	WSHP-23	#10	25	1			4.0 / 5.7					48	
	49	WSHP-20	#10	25	1	4.0 / 5.7							50	
	51	WSHP-21	#10	25	1		4.0 / 5.7		3	30	#10	WSHP-12	52	
	53	WSHP-30	#10	25	1			4.0 / 5.7					54	
	55	WSHP-37	#10	25	1	4.0 / 3.3			1	20	#12	(E)WSHP-22	56	
	57						4.0 / 4.0		1	20	#12	(E)WSHP-24	58	
	59	WSHP-19	#12	20	3			4.0 / 4.0	1	20	#12	(E)WSHP-31	60	
	61					4.0 / 3.9							62	
	63						4.0 / 3.9		3	20	#12	WSHP-29	64	
	65	WSHP-25	#12	20	3			4.0 / 3.9					66	
	67					4.0 / 4.0							68	
	69						8.4 / 4.0		3	20	#12	WSHP-17	70	
	71	(E)WSHP-13	#8	40	3			8.4 / 4.0					72	
	73					8.4 / 4.0							74	
	75						2.5 / 4.0		3	20	#12	WSHP-18	76	
	77	(E)WSHP-27	#12	20	3			2.5 / 4.0					78	
	79					2.5 / 0.0							80	
	81												82	
	83												84	
	85												86	
	87												88	
	89												90	
	91												92	
	93												94	
	95												96	
	97												98	
	99												100	
	101												102	
	103												104	
	105												106	
	107												108	
			Total Load:			111.8 kVA	108.3 kVA	108.8 kVA						
			Total Amps:			404 A	391 A	393 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	129.7 kVA	100.00%	129.7 kVA		
Other	199.2 kVA	100.00%	199.2 kVA	**Total Conn. Load:**	328.9 kVA
				Total Est. Demand:	328.9 kVA
				Total Conn. Current:	396 A
				Total Est. Demand Current:	396 A

Notes:
NEW PANEL SHALL BE SIMILAR IN WIDTH TO SIEMENS P2 PANELBOARD (~20 INCHES WIDE) TO FIT BETWEEN EXISTING PANELS.

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

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SALAS O'BRIEN
MECHANICAL / ELECTRICAL

DWG
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JANUARY 2026
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REVISIONS

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1	ADD 01	02/24/2026
2	ADD 02	02/26/2026

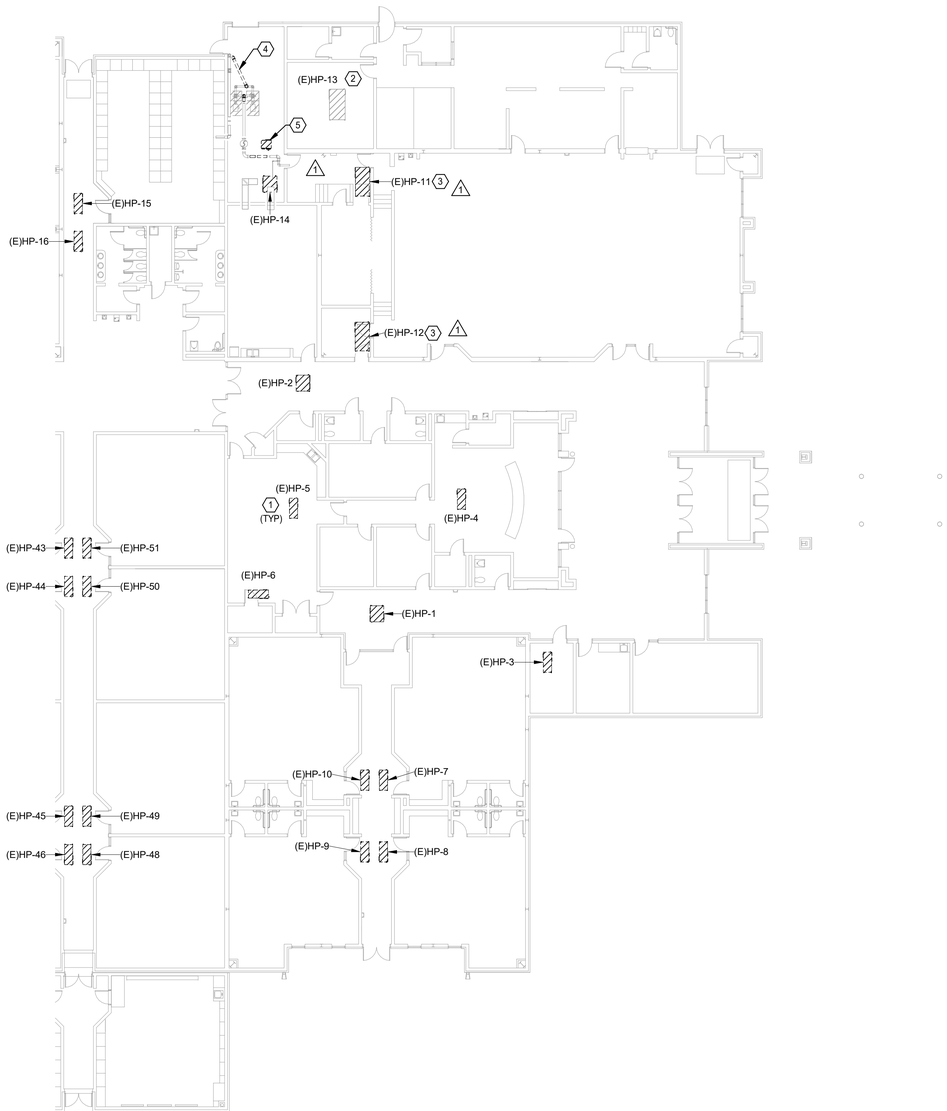
MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

E602

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, Suite 120
Moore, OK. 73160
CA#: 7058 Expiration Date: 06/30/2027
Salas O'Brien Project Number: 2550-01872-00



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2 MECHANICAL DEMOLITION PLAN - EAST

Scale: 1/16" = 1'-0"

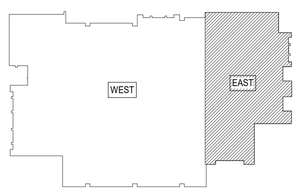
GENERAL DEMOLITION NOTES

1. PROVIDE OWNER WITH FIRST RIGHT OF REFUSAL ON ALL DEMO'D EQUIPMENT.
2. DISPOSE OF ALL DEMO'D EQUIPMENT THAT IS NOT BEING RETAINED IN A LEGAL MANNER.
3. PATCH ALL PENETRATIONS THAT ARE NOT BEING REUSED. COORDINATE WITH GENERAL CONTRACTOR.
4. VERIFY FLOW ORIENTATION FOR EXISTING WSHPS PRIOR TO DEMOLITION. NEW UNITS SHALL MATCH FLOW ORIENTATION TO MINIMIZE DUCTWORK MODIFICATIONS.
5. PHASE DEMOLITION WITH NEW HEAT PUMP INSTALLATION. 2

MECHANICAL KEYED NOTES

1	REMOVE ALL WATER SOURCE HEAT PUMPS. PREPARE EXISTING PIPE CONNECTIONS FOR FUTURE CONNECTION TO NEW UNIT. SUPPLY AND RETURN DUCTWORK TO BE REUSED WITH NEW UNIT.
2	HEAT PUMP IS EXISTING TO REMAIN.
3	DEMOLISH DUCTWORK BACK AND CAP FOR ACCESS TO DEMOLISH HEAT PUMP. INSTALL NEW WSHP THEN CONNECT NEW DUCTWORK FROM UNIT TO EXSITING DUCTWORK.
4	DEMOLISH PIPES TO LOCATIONS SHOWN. PREPARE PIPES FOR NEW CONNECTIONS SHOWN ON M101.
5	DEMOLISH GAS HEATER. REMOVE FLUE FROM HEATER TO ROOF PENETRATION. CAP AND SEAL PENETRATION AIR TIGHT. CAP AND SEAL GAS PIPING CONNECTION.

1



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KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

LICENSED PROFESSIONAL ENGINEER
Dwayne McDonald Goodwin
1/30/22
OKLAHOMA
02/26/2026

KF
drawn by

DG
checked by

JANUARY 2026
date

REVISIONS

Δ	DESCRIPTION	DATE
1	ADD 01	02/24/2026
2	ADD 02	02/26/2026

MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

MD101

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, Suite 120
Moore, OK 73160
CA#: 7058 Expiration Date: 06/30/2027
Salas O'Brien Project Number: 2550-01872-00

GENERAL DEMOLITION NOTES

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2. DISPOSE OF ALL DEMO'D EQUIPMENT THAT IS NOT BEING RETAINED IN A LEGAL MANNER.
3. PATCH ALL PENETRATIONS THAT ARE NOT BEING REUSED. COORDINATE WITH GENERAL CONTRACTOR.
4. VERIFY FLOW ORIENTATION FOR EXISTING WSHPS PRIOR TO DEMOLITION. NEW UNITS SHALL MATCH FLOW ORIENTATION TO MINIMIZE DUCTWORK MODIFICATIONS.
5. PHASE DEMOLITION WITH NEW HEAT PUMP INSTALLATION 2

MECHANICAL KEYED NOTES

1	REMOVE ALL WATER SOURCE HEAT PUMPS. PREPARE EXISTING PIPE CONNECTIONS FOR FUTURE CONNECTION TO NEW UNIT. SUPPLY AND RETURN DUCTWORK TO BE REUSED WITH NEW UNIT.
2	HEAT PUMP IS EXISTING TO REMAIN.

1

N

1 **MECHANICAL DEMOLITION PLAN - WEST**
Scale: 1/16" = 1'-0"

KEY PLAN

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Dwayne McDonald Goodall
#30822
OKLAHOMA
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MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

MD102

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, Suite 120
Moore, OK 73160
CA#: 7058 Expiration Date: 06/30/2027
Salas O'Brien Project Number: 2550-01872-00

SOUND REPORT SCOPE

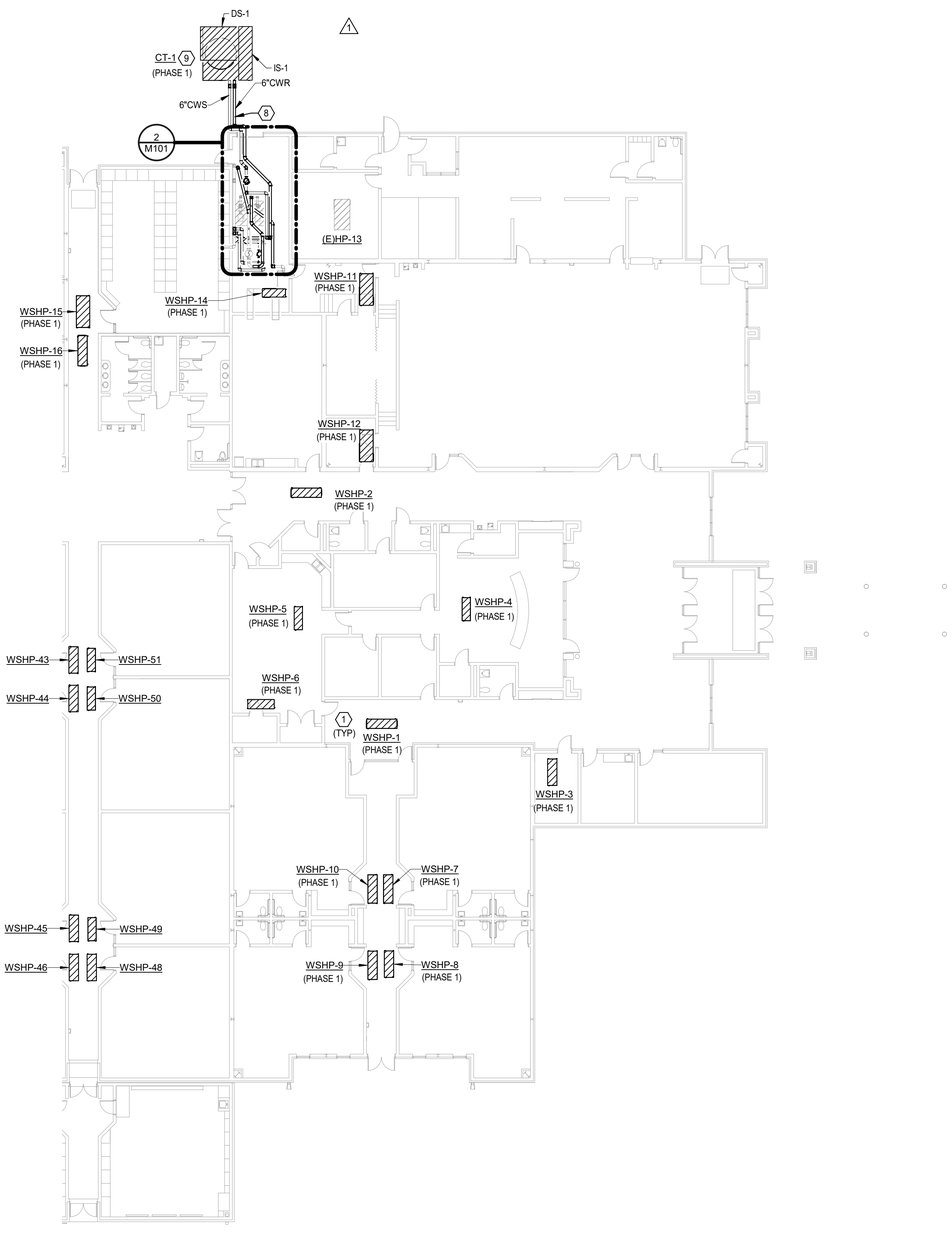
1. MC SHALL CONTRACT A SOUND TESTING CONTRACTOR TO PERFORM A TEST ON THE NOISE LEVELS OF THE COOLING TOWER.
2. TEST SHALL AT MINIMUM BE CONDUCTED AT THE COOLING TOWER AND AT THE PROPERTY LINE WHILE UNIT IS RUNNING AT FULL LOAD AND PART LOAD CONDITIONS.
3. SUBMIT THE SOUND REPORT TO THE MECHANICAL ENGINEER FOR REVIEW. UPON APPROVAL, SUBMIT REPORT TO THE OWNER FOR RECORD KEEPING.

GENERAL NOTES

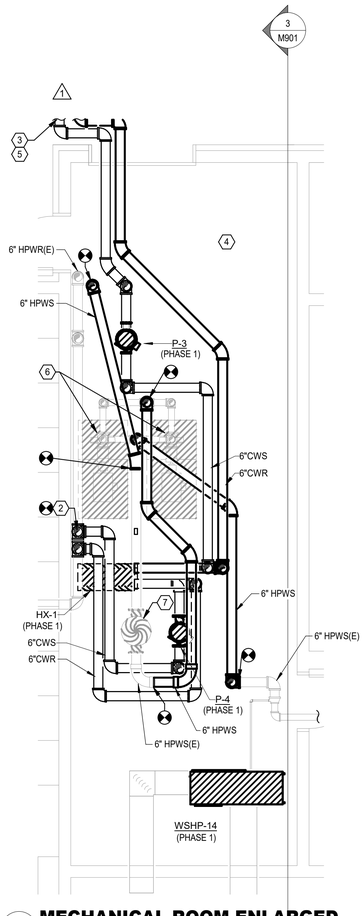
1. COORDINATE WORK WITH ALL TRADES ON SITE.
2. COORDINATE LOCATION OF THERMOSTATS AND CARBON MONOXIDE DETECTOR WITH ELECTRICAL CONTRACTOR, ROUGH-IN BY ELECTRICAL CONTRACTOR.
3. CEILING SPACE IS LIMITED. COORDINATE EXACT DUCT ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION OF SPRINKLERS, CONDUITS, LIGHTING ETC.
4. EQUIPMENT NOT DESIGNATED AS PHASE 1 TO BE INSTALLED IN LATER PHASE.

MECHANICAL KEYED NOTES

1	CONNECT NEW WSHP TO EXISTING HYDRONIC PIPES, CONDENSATE PIPE, AND DUCTWORK. PROVIDE TRANSITION DUCTWORK AS NEEDED TO FIT.
2	CONNECT PIPE TO EXISTING GEOTHERMAL LOOP RETURN PIPE. REFER TO DIAGRAM ON M501.
3	PIPE TO CONTINUE TO EXTERIOR TO CONNECT TO FLUID COOLER.
4	COORDINATE EXACT LOCATION OF P-3, P-4, AND HX-1 WITH MOORE PUBLIC SCHOOL STAFF AND EXISTING EQUIPMENT IN MECHANICAL/ELECTRICAL ROOM.
5	THE FLUID COOLER LOOP IS A 30% GLYCOL MIXTURE.
6	EXISTING GEOTHERMAL LOOP PUMPS.
7	REROUTE AIR SEPERATOR PIPING SUCH THAT IT DISCHARGES TO THE PUMP INLETS.
8	PROVIDE SHIELDING AND INSULATION ON EXTERIOR PIPES.
9	COORDINATE CT-1 LOCATION WITH MOORE PUBLIC SCHOOLS. COORDINATE WITH EXISTING EQUIPMENT NEARBY.

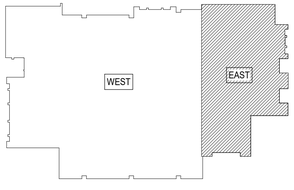


N 1 **MECHANICAL PLAN - EAST**
Scale: 1/16" = 1'-0"



2 **MECHANICAL ROOM ENLARGED**
Scale: 1/4" = 1'-0"

2 FULL SHEET



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1	ADD 01	02/24/2026
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MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

M101

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, Suite 120
Moore, OK 73160
CA#: 7058 Expiration Date: 06/30/2027
Salas O'Brien Project Number: 2550-01872-00

GENERAL NOTES

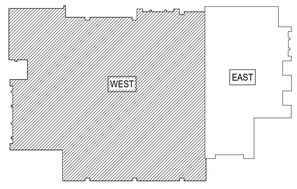
1. COORDINATE WORK WITH ALL TRADES ON SITE.
2. COORDINATE LOCATION OF THERMOSTATS AND CARBON MONOXIDE DETECTOR WITH ELECTRICAL CONTRACTOR, ROUGH-IN BY ELECTRICAL CONTRACTOR.
3. FURNACES TO BE SUSPENDED FROM STRUCTURE ABOVE. MAINTAIN REQUIRED SERVICE CLEARANCE ON ALL SIDES. SEE DETAIL 2/M501 FOR ADDITIONAL INFORMATION.
4. CEILING SPACE IS LIMITED. COORDINATE EXACT DUCT ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION OF SPRINKLERS, CONDUITS, LIGHTING ETC.
5. EQUIPMENT NOT DESIGNATED AS PHASE 1 TO BE INSTALLED IN LATER PHASE. (2)

MECHANICAL KEYED NOTES

1	CONNECT NEW WSHP TO EXISTING HYDRONIC PIPES, CONDENSATE PIPE, AND DUCTWORK. PROVIDE TRANSITION DUCTWORK AS NEEDED TO FIT.

N

1 **MECHANICAL PLAN - WEST**
Scale: 1/16" = 1'-0"



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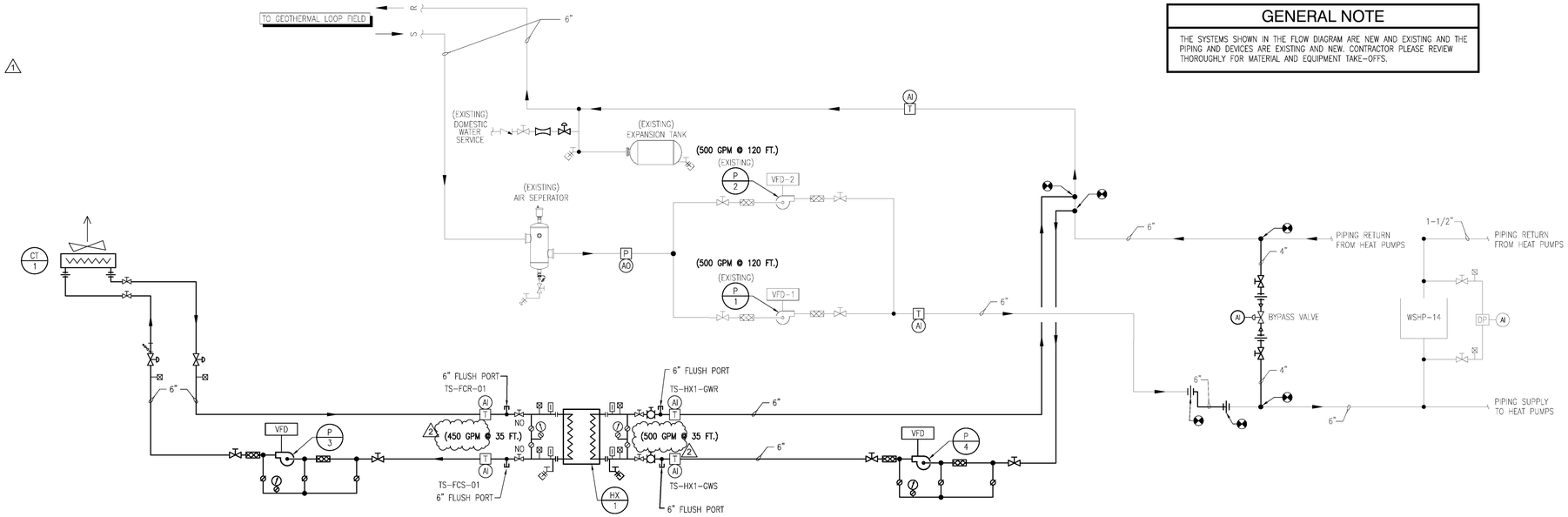

1 PIPING FLOW DIAGRAM

NOT TO SCALE

GENERAL NOTE

THE SYSTEMS SHOWN IN THE FLOW DIAGRAM ARE NEW AND EXISTING AND THE PIPING AND DEVICES ARE EXISTING AND NEW. CONTRACTOR PLEASE REVIEW THOROUGHLY FOR MATERIAL AND EQUIPMENT TAKE-OFFS.

MECHANICAL PIPING LEGEND

DOUBLE ELBOW DOWN			DOUBLE ELBOW DOWN (AT CORNER)
ELBOW DOWN			ELBOW UP
TEE			TEE DOWN
ELBOW			TEE UP
ELBOW DOWN TO TEE			END CAP
TYPICAL TEE CONNECTION (PLANS ONLY)			REDUCER
AUTOMATIC AIR VENT			NEW TO EXISTING PIPE CONNECTION
WATER FLOW MEASURING DEVICE			FLOW DIRECTION ARROW
PIPE ANCHOR			MANUAL AIR VENT (MAV)
PIPE GUIDE / SLEEVE			PRESSURE GAUGE
BALANCING VALVE			UNION
CIRCUIT SETTER			PRESSURE RELIEF VALVE
PRESSURE REDUCING VALVE		PT	PRESSURE/TEMPERATURE PORT
BALL VALVE/SHUT-OFF VALVE			AIR SEPARATOR
SILENT CHECK VALVE			PUMP
GLOBE VALVE			OR PUMP
TWO-WAY VALVE			FLEX CONNECTION
THREE-WAY VALVE			THERMOMETER
BUTTERFLY VALVE			
TRIPLE DUTY VALVE			STEAM GAUGE SIPHON
SHUT-OFF COCK			STEAM TRAP & DRIP ASSEMBLY
STRAINER			COIL
STRAINER WITH BLOWDOWN			PIPE VIEW
SUCTION DIFFUSER W/ STRAINER AND BLOWDOWN		AI	ANALOG INPUT
DRAIN VALVE		AO	ANALOG OUTPUT
VACUUM BREAKER		DI	DIGITAL INPUT
FLOW CONTROL VALVE W/ PRESSURE DIFFERENTIAL SENSOR		DO	DIGITAL OUTPUT
DIFFERENTIAL PRESSURE SENSOR			

INPUT/OUTPUT SUMMARY (FLUID COOLER, BOILER'S, & PUMP ROOM)

	INPUTS																			OUTPUTS						SYSTEM FEATURES													
	ANALOG										DIGITAL									ANALOG			DIGITAL			ALARMS				PROGRAMS									
	MEASURED					CALC.																																	
SYSTEM, APPARATUS OR AREA POINT DESCRIPTION	TEMPERATURE	RELATIVE HUMIDITY	STATIC PRESSURE	DIFFERENTIAL PRESSURE	AIR FLOW (CFM)	CURRENT	KWH	ENTHALPY	RUN TIME	EFFICIENCY	TEMPERATURE SWITCH	PRESSURE SWITCH	FLOW SWITCH	END SWITCH	CURRENT SWITCH	AUXILIARY CONTACTS	SMOKE DETECTOR	FREEZE STAT	STATUS	BURNER MODULATION	VALVE MODULATION	DAMPER MODULATION	VFD MODULATION	SET POINT ADJUST.	START/STOP	OPEN/CLOSE	HIGH/LOW	HIGH ANALOG	LOW ANALOG	HIGH DIGITAL	LOW DIGITAL	PROOF	TIM SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPT.	ENTHALPY OPT.	SMOKE CNT.	TREND	ALARM INSTRUCT	GRAPHIC	REMARKS
ENTIRE HYDRONIC SYSTEM																																									
VFD CONTROL																							X																	X	P-1, P-2, P-3, P-4
START/STOP																								X																X	P-1, P-2, P-3, P-4
VFD TROUBLE ALARM																X														X								X	X	P-1, P-2, P-3, P-4
STATUS						X	X																				X											X	X	P-1, P-2, P-3, P-4
BUILDING DIFFERENTIAL PRESSURE				X																																				
COOLING TOWER	X																	X	X				X		X														X	
BUILDING SUPPLY TEMPERATURE	X																																					X		TS-GWS-
BUILDING RETURN TEMPERATURE	X																																					X		TS-GWR-
GEO WATER SUPPLY TEMPERATURE	X																																					X		TS-GWS-
GEO WATER RETURN TEMPERATURE	X																																					X		TS-GWR-
HX WATER SUPPLY TEMPERATURE	X																																					X		TS-HX1-
HX WATER RETURN TEMPERATURE	X																																					X		TS-HX1-

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CEDAR CREEK
CIVIL

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

LICENSED PROFESSIONAL ENGINEER
Dwayne McDonald Goodwin
1/30/22
OKLAHOMA
02/25/2026

KF
drawn by

DG
checked by

JANUARY 2026
date

REVISIONS

Δ	DESCRIPTION	DATE
1	ADD 01	02/24/2026
2	ADD 02	02/26/2026

MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

M501

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, Suite 120
Moore, OK 73160
CA#: 7058 Expiration Date: 06/30/2027
Salas O'Brien Project Number: 2550-01872-00

WATER SOURCE HEAT PUMP UNIT SCHEDULE

UNIT	TYPE	AIRFLOW CFM	FAN DATA EXTERNAL S.P. (IN. W.G.)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	COIL DATA EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	HEATING TOTAL CAPACITY	HEATING EAT.DB	HEATING NUM. OF STAGES	HEATING LAT.DB	CONDENSER DATA COOLING EWT (°F)	COOLING LWT (°F)	COOLING ΔP (FT. WG)	COOLING GPM	HEATING EWT	HEATING LWT	HEATING ΔP (FT. WG)	SINGLE POINT POWER CONNECTION MCA	MOCP	V	PH	SEER	C.O.P.	MANUFACTURER	MODEL NUMBER	WEIGHT	REMARKS
WSHP-1	HORIZONTAL	1760	0.66	43.4	57.0	75	63	52	51	55.0	72	1	101	90	101	6.10	13	50	43	7.80	16	20	480	3	14.8	4.3	CLIMATE MASTER	SE-060	475.00	1-6
WSHP-2	HORIZONTAL	1880	0.49	44.7	58.2	75	63	53	52	56.0	72	1	100	90	101	6.10	13	50	43	7.80	16	20	480	3	14.6	4.3	CLIMATE MASTER	SE-060	475.00	1-6
WSHP-3	HORIZONTAL	1100	0.34	42.4	35.1	75	63	55	51.7	36.7	72	1	103	90	102	4.00	8	50	42	4.60	16	25	277	1	15.3	4.7	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-4	HORIZONTAL	850	0.20	21.2	34.2	75	63	51.9	48.3	35.3	72	1	110	90	101	4.00	8	50	42	4.60	14	20	277	1	16	4.5	CLIMATE MASTER	SE-024	360.00	1-6
WSHP-5	HORIZONTAL	730	0.16	16.4	23.4	75	63	54	51.6	24.0	72	1	103	90	102	0.80	5	50	43	1.20	14	20	277	1	14	4.4	CLIMATE MASTER	SE-024	298.00	1-6
WSHP-6	HORIZONTAL	870	0.56	21.2	34.1	75	63	51.9	48.3	35.3	72	1	110	90	101	4.00	8	50	43	4.60	16	25	277	1	16	4.5	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-7	HORIZONTAL	1480	0.23	36.0	49.0	80	66	58	55	60.0	68	1	105	86	98	4.40	10	68	58	4.50	16	20	480	3	15.6	5.1	CLIMATE MASTER	SE-048	450.00	1-6
WSHP-8	HORIZONTAL	1250	0.34	24.7	35.7	75	63	56.7	53	37.6	72	1	100	90	102	4.00	8	50	42	4.60	16	25	277	1	14.9	4.9	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-9	HORIZONTAL	1530	0.88	32.6	46.3	75	63	55	52	48.0	72	1	101	90	101	4.40	10	50	42	4.80	16	20	480	3	14.2	4.4	CLIMATE MASTER	SE-048	450.00	1-6
WSHP-10	HORIZONTAL	1545	0.13	32.7	46.3	75	63	55	52	48.0	72	1	101	90	101	4.40	10	50	42	4.80	16	20	480	3	14.2	4.4	CLIMATE MASTER	SE-048	450.00	1-6
WSHP-11	HORIZONTAL	4360	0.26	85.4	115.0	75	63	57	54	127.8	72	1	99	90	102	12.80	25	50	43	14.30	23	30	480	3	11.2	3.8	CLIMATE MASTER	SE-120	700.00	1-6
WSHP-12	HORIZONTAL	4450	0.22	86.0	115.0	75	63	57	54	128.0	72	1	99	90	102	12.80	25	50	43	14.30	23	30	480	3	11.2	3.8	CLIMATE MASTER	SE-120	700.00	1-6
WSHP-14	HORIZONTAL	1200	0.43	24.3	35.5	75	63	56.3	52.6	37.3	72	1	101	90	102	4.00	8	50	42	4.00	17	25	277	1	15	4.8	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-15	HORIZONTAL	3800	0.11	73.6	94.7	75	63	57	54	104.0	72	1	97	90	102	10.40	20	50	42	12.60	16	20	480	3	12.4	4.2	CLIMATE MASTER	SE-096	645.00	1-6
WSHP-16	HORIZONTAL	1975	0.38	45.7	58.5	75	63	53	52	57.0	72	1	100	90	102	6.10	13	50	43	7.80	16	20	480	3	14.5	4.4	CLIMATE MASTER	SE-060	475.00	1-6
WSHP-17	HORIZONTAL	1975	0.38	45.7	58.5	75	63	53	52	57.0	72	1	100	90	102	6.10	13	50	43	7.80	16	20	480	3	14.5	4.4	CLIMATE MASTER	SE-060	475.00	1-6
WSHP-18	HORIZONTAL	2100	0.28	51.4	68.4	75	63	52	51	64.0	72	1	100	90	101	8.70	15	50	44	10.80	16	20	480	3	13.3	3.7	CLIMATE MASTER	SE-072	475.00	1-6
WSHP-19	HORIZONTAL	2100	0.32	51.4	68.4	75	63	52	51	64.0	72	1	100	90	101	8.70	15	50	44	10.80	16	20	480	3	13.3	3.7	CLIMATE MASTER	SE-072	475.00	1-6
WSHP-20	HORIZONTAL	1190	0.44	24.2	35.5	75	63	56.2	52.5	37.2	72	1	101	90	102	4.00	8	50	42	4.60	16	25	277	1	15.1	4.8	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-21	HORIZONTAL	1215	0.41	24.4	35.6	75	63	56.4	52.7	37.4	72	1	101	90	102	4.00	8	50	42	4.60	16	25	277	1	15	4.8	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-23	HORIZONTAL	1100	0.34	23.4	35.1	75	63	55.3	51.7	36.7	72	1	103	90	102	4.00	8	50	42	4.60	16	25	277	1	15.3	4.7	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-25	HORIZONTAL	2945	0.22	64.8	92.2	75	63	55	52	99.0	72	1	103	90	102	10.40	20	50	42	12.60	16	20	480	3	12.4	4.2	CLIMATE MASTER	SE-096	645.00	1-6
WSHP-29	HORIZONTAL	1500	0.20	32.3	46.2	75	63	55	52	48.0	72	1	102	90	101	4.40	10	50	42	4.80	16	20	480	3	14.3	4.3	CLIMATE MASTER	SE-048	450.00	1-6
WSHP-30	HORIZONTAL	1250	0.32	24.7	35.7	75	63	56.7	53	37.6	72	1	100	90	102	4.00	8	50	42	4.60	16	25	277	1	14.9	4.9	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-32	HORIZONTAL	900	0.54	21.6	34.4	75	63	52.7	49.1	35.5	72	1	109	90	101	4.00	8	50	43	4.60	16	25	277	1	15.8	4.6	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-33	HORIZONTAL	900	0.54	21.6	34.4	75	63	52.7	49.1	35.5	72	1	109	90	101	4.00	8	50	43	4.60	16	25	277	1	15.8	4.6	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-34	HORIZONTAL	900	0.54	21.6	34.4	75	63	52.7	49.1	35.5	72	1	109	90	101	4.00	8	50	43	4.60	16	25	277	1	15.8	4.6	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-35	HORIZONTAL	900	0.54	21.6	34.4	75	63	52.7	49.1	35.5	72	1	109	90	101	4.00	8	50	43	4.60	16	25	277	1	15.8	4.6	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-36	HORIZONTAL	900	0.54	21.6	34.4	75	63	52.7	49.1	35.5	72	1	109	90	101	4.00	8	50	43	4.60	16	25	277	1	15.8	4.6	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-37	HORIZONTAL	1250	0.32	24.7	35.7	75	63	56.7	53	37.6	72	1	100	90	102	4.00	8	50	42	4.60	16	25	277	1	14.9	4.9	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-39	HORIZONTAL	960	0.48	22.2	34.6	75	63	53.6	50	35.9	72	1	107	90	101	4.00	8	50	42	4.60	16	25	277	1	15.7	4.6	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-40	HORIZONTAL	800	0.30	17.1	23.7	75	63	55	52.6	24.0	72	1	100	90	102	0.80	5	50	42	1.20	14	20	277	1	13.8	4.5	CLIMATE MASTER	SE-024	298.00	1-6
WSHP-41	HORIZONTAL	800	0.30	17.1	23.7	75	63	55	53	24.0	72	1	100	90	102	0.80	5	50	42	1.20	14	20	277	1	13.8	4.5	CLIMATE MASTER	SE-024	298.00	1-6
WSHP-42	HORIZONTAL	800	0.30	17.1	23.7	75	63	55	53	24.0	72	1	100	90	102	0.80	5	50	42	1.20	14	20	277	1	13.8	4.5	CLIMATE MASTER	SE-024	298.00	1-6
WSHP-43	HORIZONTAL	900	0.54	21.6	34.4	75	63	52.7	49.1	35.5	72	1	109	90	101	4.00	8	50	43	4.60	16	25	277	1	15.8	4.6	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-44	HORIZONTAL	900	0.54	21.6	34.4	75	63	52.7	49.1	35.5	72	1	109	90	101	4.00	8	50	43	4.60	16	25	277	1	15.8	4.6	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-45	HORIZONTAL	900	0.54	21.6	34.4	75	63	52.7	49.1	35.5	72	1	109	90	101	4.00	8	50	43	4.00	16	25	277	1	15.8	4.6	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-46	HORIZONTAL	1250	0.32	24.7	35.7	75	63	56.7	53	37.6	72	1	100	90	102	4.00	8	50	42	4.60	16	25	277	1	14.9	4.9	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-48	HORIZONTAL	960	0.48	22.2	34.6	75	63	53.6	50	35.9	72	1	107	90	101	4.00	8	50	42	4.60	16	25	277	1	15.7	4.6	CLIMATE MASTER	SE-036	360.00	1-6
WSHP-49	HORIZONTAL	800	0.30	17.1	23.7	75	63	55	53	24.0	72	1	100	90	102	0.80	5	50	42	1.20	14	20	277	1	13.8	4.5	CLIMATE MASTER	SE-024	298.00	1-6
WSHP-50	HORIZONTAL	800	0.30	17.1	23.7	75	63	55	53	24.0	72	1	100	90	102	0.80	5	50	42	1.20	14	20	277	1	13.8	4.5	CLIMATE MASTER	SE-024	298.00	1-6
WSHP-51	HORIZONTAL	800	0.30	17.1	23.7	75	63	55	53	24.0	72	1	100	90	102	0.80	5	50	42	1.20	14	20	277	1	13.8	4.5	CLIMATE MASTER	SE-024	298.00	1-6

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT CAPACITIES ARE BASED ON THE ENTERING AIR AND WATER CONDITIONS IN SCHEDULE.
2. MC TO PROVIDE DISCONNECT. EC TO INSTALL DISCONNECT. COORDINATE WITH EC.
3. FIELD VERIFY UNIT ORIENTATION WITH EXISTING DUCTWORK TO MINIMIZED IMPACT TO DUCT CONNECTIONS.
4. PROVIDE WITH ECM MOTOR.
5. PROVIDE WITH MANUFACTURER'S THERMOSTAT AND BACNET CAPABILITY.
6. PROVIDE UNITS WITH HOT GAS REHEAT.

SILENCER SCHEDULE (VIBRO-ACOUSTICS)

TAG	SYSTEM	TYPE (NOTE 1)	DIMENSIONS DUCT WIDTH, IN.	DUCT HEIGHT, IN.	LENGTH IN.	AIRFLOW, CFM	VELOCITY, FPM (NOTE 2)	IDEAL DP IN.W.G. (NOTE 3)	MAX.DP W/SYS EFF IN.W.G. (NOTE 4)	MINIMUM DYNAMIC INSERTION LOSS, dB (NOTE 5) OCTAVE BAND CENTER FREQUENCY, HZ 63	125	250	500	1000	2000	4000	8000	BASIS OF DESIGN VIBRO-ACOUSTICS MODEL NUMBER	NOTES
DS-1	CT-1 DISCHARGE	RD	102	90	36	72932	+608	0.1	0.28	4	6	17	27	30	25	18	13	RD-LV-XX	1-9
IS-1	CT-1 INLET	RD	132	96	36	72932	-717	0.16	0.33	4	9	17	28	30	27	20	17	RD-LV-XX	1-9

Notes:
1. TYPE R - RECTANGULAR D - DISSIPATIVE
2. VELOCITY SHOWN IS + (FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-20.
3. IDEAL PRESSURE DROP AS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
4. PRESSURE DROP PER ASTM E477-20 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.
5. MINIMUM DYNAMIC INSERTION LOSS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
6. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT DUCTBORNE FAN SOUND LEVELS, INCLUDING AIRBORNE AND BREAKOUT NOISE, MEET THE REQUIRED CRITERIA.
7. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED PRESSURE DROP CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT INSTALLED PRESSURE DROP WITH SYSTEM EFFECTS DOES NOT EXCEED SCHEDULED VALUES.
8. FOR NON-BASIS OF DESIGN PRODUCT SUPPLIED, CONTRACTOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED TO ACHIEVE SPECIFIED NC LEVEL IN SPACES.
9. DISCHARGE AND INTAKE SILENCER WITH STEEL SUPPORT STRUCTURES TO MEET 50DBA AT PROPERTY LINE 30 FEET AWAY.

PUMP

TAG	SERVICE	TYPE	GPM	HEAD (FT.)	MOTOR HORSE POWER	MAX. RPM	CURRENT CHARAC. V	P	F	MANUFACTURER	MODEL NUMBER	REMARKS
P-3	COOLING TOWER	VERTICAL INLINE	450	35.00	7.50	1800	480	3	60	GRUNDFOS	5012C-4P-7.5HP VLSE	1-4,6
P-4	GEO HEAT EXCHANGER	VERTICAL INLINE	500	35.00	7.50	1800	480	3	60	GRUNDFOS	50707-4P-7.5HP VLSE	1-5

GENERAL NOTES:
1. PUMP IS TO HAVE A NON-OVERLOADING MOTOR.
2. MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.

REMARKS:
1. PROVIDE WITH VARIABLE FREQUENCY DRIVE.
2. DISCONNECT PROVIDED BY MC AS PART OF PUMP ASSEMBLY AND INSTALLED BY EC.
3. PROVIDE SHAFT GROUNDING RINGS.
4. PROVIDE CONTROLS COMPATIBLE WITH EXISTING BUILDING AUTOMATION SYSTEM.
5. 100% WATER.
6. 30% GLYCOL.
7. EQUIPMENT TO BE INSTALLED DURING PHASE 1.

CLOSED-CIRCUIT COOLING TOWER

MARK	ENTERING WATER TEMP (°F)	LEAVING WATER TEMP (°F)	GPM	WATER PD (FT)	AMBIENT WET BULB TEMP. (°F)	GLYCOL TYPE	GLYCOL	FAN HP	CURRENT V	P	F	MANUFACTURER	MODEL	WEIGHT	REMARKS
CT-1	98.6	85	450	7.25	78	PROPYLENE	30%	25	460	3	60	BAC	FXV-0812B-361-N	20,417	1-6

REMARKS:
1. PROVIDE WITH VARIABLE FREQUENCY DRIVE.
2. STAINLESS STEEL CONSTRUCTION.
3. MOTOR SHALL BE OUT OF WATER STREAM.
4. PROVIDE WITH LADDERS AND PLATFORMS.
5. PROVIDE WITH 6KW BASIN HEATER.
6. EQUIPMENT TO BE INSTALLED DURING PHASE 1.

PLATE AND FRAME HEAT EXCHANGER

MARK	ACTUAL CAPACITY (BTU/HR)	COOLING TOWER (COLD) SIDE EWT(°F)	LWT(°F)	GPM	PRESSURE DROP (FT.)	GHEX (HOT) SIDE EWT(°F)	LWT(°F)	GPM	PRESSURE DROP (FT.)	MANUFACTURER	MODEL NUMBER	REMARKS
HX-1	2483218	85	97	450	23.0	100	90	500	20.0	MUELLER	AT55X V	1-3

REMARKS:
1. EXCHANGER SHALL MEET OR EXCEED EFFICIENCIES AS OUTLINED IN ASHRAE 90.1.
2. COORDINATE EXACT LOCATION WITH MOORE PUBLIC SCHOOLS PRIOR TO INSTALLATION.
3. EQUIPMENT TO BE INSTALLED DURING PHASE 1.

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STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

KF
drawn by

DG
checked by

JANUARY 2026
date

REVISIONS

Δ	DESCRIPTION	DATE
1	ADD 01	02/24/2026
2	ADD 02	02/26/2026

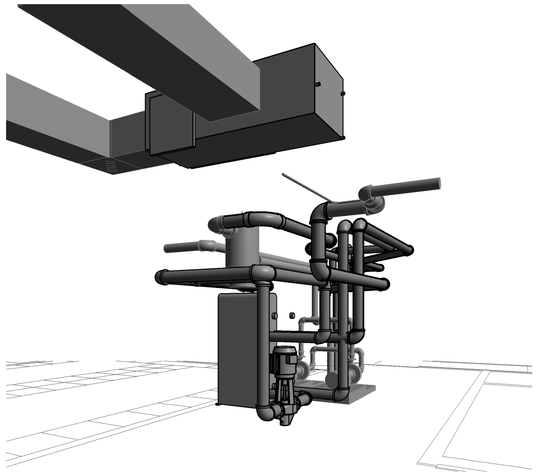
MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

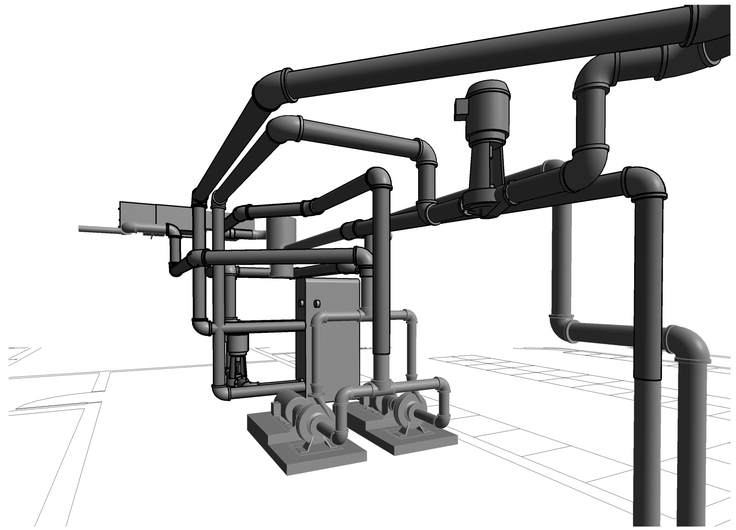
sheet no:

M601

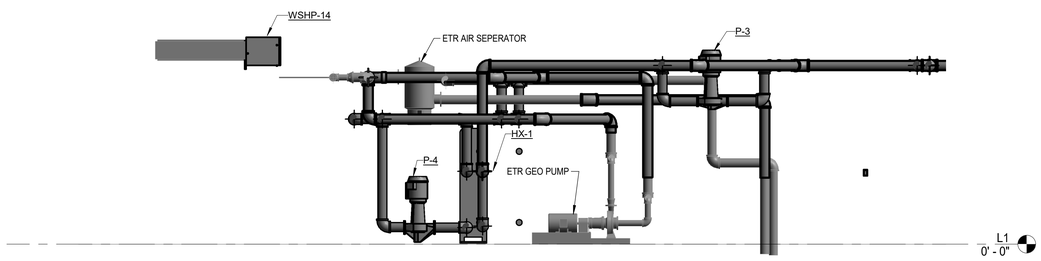
Salas O'Brien
Oklahoma City
2900 S. Telephone Road, Suite 120
Moore, OK 73160
CA#: 7058 Expiration Date: 06/30/2027
Salas O'Brien Project Number: 2550-01872-00



2 **3D Mech from SE**
Scale:



1 **3D Mech from NE**
Scale:



3 **MECH ROOM SECTION**
Scale: 1/4" = 1'-0"

AGP
the Abla Griffin Partnership L.L.C.

313 S. E. 5th Street
MOORE, OK. 73160
405.735.3477
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CEDAR CREEK
CIVIL

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

LICENSED PROFESSIONAL ENGINEER
Dwayne McDonald Goodall
13082
OKLAHOMA
02/25/2026

KF
drawn by

DG
checked by

JANUARY 2026
date

REVISIONS

Δ	DESCRIPTION	DATE
1	ADD 01	02/24/2026
2	ADD 02	02/26/2026

MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

M901

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, Suite 120
Moore, OK 73160
CA#: 7058 Expiration Date: 06/30/2027
Salas O'Brien Project Number: 2550-01872-00

OMNI CONSTRUCTION

P. O. Box 892245 • OKC, OK 73189
OFFICE: 405-735-3992 • CELL: 405-570-7881

Wayland Bonds 2025 HVAC
Addendum 02 Issued 2/27/2026

- Scope of work modifications to bid package #13 Mechanical
- Scope of work modifications to bid package #15 Electrical/Cabling/ IT
- The removal/cancellation of bid package #8 Finishes (Ceiling System)
- Revised Document 300 Bid Forms

WAYLAND BONDS 2025 HVAC

14025 S. May Ave Oklahoma City, OK 73170

Summary of Work / Bid Packages

~~BID PACKAGE #8: FINISHES (CEILING SYSTEM)~~ **CANCELLED**

- **This bid package shall include all labor, materials, equipment, services, insurances, and incidentals required to complete the Finishes (Ceiling System) work as specified by the drawings and specifications including the following:**

SECTIONS:

- **Division 0** **Bidding & Contract Documents**
- **Division 1** **General Requirements**
- **Section 07200** **Insulation**
- **Section 09120** **Ceiling Suspension Systems**
- **Section 095113** **Acoustical Panel Ceilings Kitchen Zone**

THIS SCOPE OF WORK SHALL INCLUDE BUT NOT LIMITED TO:

- **The subcontractor is to ensure that all elevated work areas are made ready to protect all areas below and have OSHA approved fall protection for work to proceed.**
- **The subcontractor is responsible for the daily clean-up of all waste & trash generated by their work.**
- **The subcontractor is responsible for reviewing ALL PLAN SHEETS AND PLAN NOTES for any and all information pertaining to this scope of work.**
- **The subcontractor is to include all demo for this scope of work.**
- **The subcontractor is to include the removal and re-install of ceiling tiles/grid in areas where HVAC equipment is being replaced.**

REVISIONS FROM ADD02 2/27/2026:

- **Due to changes in the project scope of work this bid package has been cancelled.**

WAYLAND BONDS 2025 HVAC

14025 S. May Ave

Oklahoma City, OK 73170

Summary of Work / Bid Packages

BID PACKAGE #13: MECHANICAL

- **This bid package shall include all labor, materials, equipment, services, insurances, and incidentals required to complete the Mechanical work as specified by the drawings and specifications including the following:**

SECTIONS:

- **Division 0** **Bidding & Contract Documents**
- **Division 1** **General Requirements**
- **Section 230100** **HVAC Operating & Maintenance Manuals**
- **Section 230500** **Mechanical General Provisions**
- **Section 230512** **HVAC Shop Drawings, Coordination Drawings & Product Data**
- **Section 230513** **Electrical Provisions of HVAC Work**
- **Section 230519** **HVAC Pressure and Temperature Instruments**
- **Section 230593** **Testing, Adjusting, and Balancing of Environmental Systems**
- **Section 230713** **External Duct Insulation**
- **Section 230719** **HVAC Piping Insulation**
- **Section 232000** **Mechanical Pipe and Fittings – General**
- **Section 232123** **HVAC Pumps**
- **Section 233113** **Ductwork**
- **Section 235719** **Heat Exchanger**
- **Section 236541** **Packaged Steel Cooling Tower**
- **Section 238146** **Water to Air Heat Pump Unit**

THIS SCOPE OF WORK SHALL INCLUDE BUT NOT LIMITED TO:

- **Testing to be coordinated by the contractor.**
- **The subcontractor is to ensure that all elevated work areas are made ready to protect all areas below and have OSHA approved fall protection for work to proceed.**
- **The subcontractor is responsible for the daily clean-up of all waste & trash generated by their work.**
- **The subcontractor is responsible for reviewing ALL PLAN SHEETS AND PLAN NOTES for any and all information pertaining to this scope of work.**
- **Coring, patching, and caulking of penetrations.**
- **The mechanical subcontractor is to include all demo for this scope of work.**
- **The mechanical subcontractor is to include the disposal of all demo'd items in a legal manner that are not retained by owner.**

REVISIONS FROM ADD02 2/27/2026:

- **The mechanical subcontractors base bid is to include the following:**
  1. **Purchase of all heat pump units (42 total)**
  2. **Cooling tower**
  3. **Heat exchangers**
  4. **Removal & installation of 17 Heat Pump Units (remaining units to be stored with owner)**
  5. **All other work to be performed in base bid**
  6. **Provide a unit pricing to demo/install remaining 25 heat pump units @ a later date to be scheduled by Owner/Construction Manager as Alternate 1.**

- **Alternate 1-The mechanical subcontractor is to include a unit price for the completion of the remaining units (25) to be replaced and will need to cover & include original scope of work.**

WAYLAND BONDS 2025 HVAC

14025 S. May Ave Oklahoma City, OK 73170

Summary of Work / Bid Packages

BID PACKAGE #15: ELECTRICAL/CABLING/IT

- **This bid package shall include all labor, materials, equipment, services, insurances, and incidentals required to complete the Electrical/Cabling/IT work as specified by the drawings and specifications including the following:**

SECTIONS:

- **Division 0** **Bidding & Contract Documents**
- **Division 1** **General Requirements**
- **Section 260500** **Electrical General Provisions**
- **Section 260512** **Electrical Shop Drawings, Coordination Drawings, & Product Data**
- **Section 260519** **Conductors and Connectors – 600 Volt**
- **Section 260526** **Electrical Grounding**
- **Section 260533** **Conduit Systems**
- **Section 260535** **Electrical Connections for Equipment**
- **Section 260537** **Electrical Boxes & Fittings**
- **Section 260540** **Electrical Gutters and Wireways**
- **Section 262416** **Panelboards and Enclosures**
- **Section 262773** **Line Voltage Wiring Devices**

THIS SCOPE OF WORK SHALL INCLUDE BUT NOT LIMITED TO:

- **The subcontractor is to ensure that all elevated work areas are made ready to protect all areas below and have OSHA approved fall protection for work to proceed.**
- **The subcontractor is responsible for the daily clean-up of all waste & trash generated by their work.**
- **The subcontractor is responsible for reviewing ALL PLAN SHEETS AND PLAN NOTES for any and all information pertaining to this scope of work.**
- **Provide, coordinate, and maintain all temporary building, jobsite trailer and site electrical power and lighting services including temporary construction facilities.**
- **The subcontractor is responsible for coordinating all systems with the fire sprinkler, mechanical, and plumbing contractors.**
- **All associated inspections, permits, and required fees.**
- **The subcontractor is responsible for any earthwork associated with this bid package including hauling off of excess spoils.**
- **The subcontractor is responsible for any and all wiring to others equipment.**

- **The subcontractor is responsible for all layout associated with this bid package.**
- **Furnish and install all sleeves for associated electrical work.**
- **All penetrations through CMU walls must have block-outs, core drilling will not be allowed.**
- **The subcontractor is responsible for all fire-stopping where this scope of work creates penetrations.**
- **The subcontractor shall furnish and install steel, lockable, and primed access panels in any location required to allow for proper access to the electrical system. Access panels shall be large enough to accommodate easy access for repairs, maintenance, and inspections.**
- **The electrical subcontractor is to include all demo for this scope of work.**

REVISIONS FROM ADD02 2/27/2026:

- **The electrical subcontractors base bid is to include the following:**
  1. **Include all work under original scope with the exception of only the removal & installation of 17 heat pump units .**
  2. **Provide a unit pricing to demo/install remaining 25 heat pump units @ a later date to be scheduled by Owner/Construction Manager as Alternate 1.**

- **Alternate 1-The electrical subcontractor is to include a unit price for the completion of the remaining units (25) to be replaced and will need to cover & include original scope of work.**

DOCUMENT 300

BID FORMS

PROJECT NAME: Wayland Bonds 2025 HVAC

DATE OF BID OPENING: _____

COMPANY NAME: _____
COMPANY ADDRESS: _____
CONTACT NAME: _____
TELEPHONE NUMBER: _____
FAX NUMBER: _____
EMAIL ADDRESS: _____

PACKAGE NO. / DESCRIPTION	COMPLETE DESCRIPTION AS TO SCOPE OF WORK	AMOUNT

****Any proposal containing clarifications or exclusions shall not be considered.**

Base Bid: _____(Written Words)

$_____(Numeric Form)

IT IS UNDERSTOOD THE BASE BID DOES NOT INCLUDE THE COST OF THE PERFORMANCE BOND COVERING 100% OF THE COTRACT AMOUNT. PRIOR TO AWARD, THE OWNER AND CONTRACTOR RESERVE THE RIGHT TO ADD A PERFORMANCE BOND FROM THE TRADE CONTRCT AGREEMENT. PLEASE INDICATE THE FOLLOWING INFORMATION WITH REGARDS TO YOUR PERFORMANCE BOND:

PERFORMANCE BOND RATE (%): _____

COST OF PERFORMANCE BOND ($):_____(Dollars)

Alternates:

Description of Alternate: Unit Price per Heat Pump Installation

Add or Deduct: _____

**Please note that any and all items of the given package which are not specifically excluded in the bid document will be considered to be a part of the bid package.