



Addendum No. 1
HAWA Project No. 23100

Project Number: AGR-240001

AGR-240001 CPL Chiller Replacement

Date	April 09, 2024
Project Title	Ohio Facilities Construction Commission CPL Chiller Replacement
To	All Plan Holders
Purpose	Modify the Bid Documents
Distribution	All Plan Holders Ohio Department of Agriculture Ohio Facilities Construction Commission

TO ALL PLAN HOLDERS: This Addendum modifies the Bid Documents, must be taken into account in preparing bids, and is hereby made a part of the Bidding Documents. This Addendum must be received for on the Bid Form.

Specifications:

Section 00 10 00

- Revised paragraph on EDGE certification.

Section 23 64 13

- Item 2.01, Replaced Daikin with Carrier as an acceptable manufacturer.

DRAWINGS:

MECHANICAL

- Sheet M200: BASEMENT FLOOR HVAC PLAN
 - o Rotated new chiller.
- Sheet M500: HVAC DETAILS
 - o Revised piping valves in the new piping schematic.

ELEC

- Sheet E200: BASEMENT FLOOR ELECTRICAL PLAN
 - o Relocated electrical feed to chiller's electrical connection point.

ATTACHMENTS:

- Pre-Bid Meeting Agenda
- Pre-Bid Meeting Sign-in Sheet

END OF ADDENDUM No. 01

Document 00 10 00 - Solicitation (General Contracting / Electronic Bid) State of Ohio Standard Requirements for Public Facility Construction

Electronic bids will be received by:

Ohio Facilities Construction Commission
<https://bidexpress.com>

for the following Project:

Project AGR-240001
CPL Chiller Replacement
Ohio Department of Agriculture
Reynoldsburg, Licking County

in accordance with the Contract Documents prepared by:

HAWA Incorporated
D. Andrew Fouss
570 Polaris Parkway, Suite 410
Westerville, Ohio 43082
(614) 451-1711 (office)
dafouss@hawainc.com
www.hawainc.com

In compliance with Section 153.08 of the Ohio Revised Code and Section 153:1-8-01 of the Ohio Administrative Code, Bids for this Project are being received, opened, and published through electronic means using the State's electronic bidding service.

To access this Project through the electronic bidding service, you must first register at <https://bidexpress.com> by clicking on the "REGISTER FOR FREE" button and following the instructions. In order to bid, you must create and enable a digital ID within the service. This process requires the submission of notarized paperwork and may take up to five business days to complete. There are no fees to register, create and enable a digital ID, or to download bid documents. There is a small expense on a monthly or per bid basis to submit a bid. The electronic bidding service offers customer support that may be reached at 888.352.2439 or via email at support@bidexpress.com.

Bidders may submit requests for consideration of a proposed Substitution for a specified product, equipment, or service to the Architect/Engineer ("A/E") no later than 10 days prior to the bid opening. Additional products, equipment, and services may be accepted as approved Substitutions only by written Addendum.

From time to time, the Commission issues new editions of the "State of Ohio Standard Requirements for Public Facility Construction" and may issue interim changes. Bidders must submit Bids that comply with the version of the Standard Requirements included in the Contract Documents.

Prevailing Wage rates and Equal Employment Opportunity requirements are applicable to this Project.

This Project is subject to the State of Ohio's Encouraging Diversity, Growth, and Equity ("EDGE") Business Development Program. A Bidder is required to submit with its Bid and with its Bidder's Qualifications form, certain information about the certified EDGE Business Enterprise(s) participating on the Project with the Bidder. Refer to **Section 6.1.10** of the **Instructions to Bidders**.

The EDGE Participation Goal for the Project is **5.0 percent**.

~~The percentage is determined by the contracted value of goods, services, materials, and labor that are provided by EDGE-certified business(es). The participation is calculated on the total amount of each awarded contract. For more information about EDGE, contact the State of Ohio EDGE Certification Office at <http://das.ohio.gov/eod>, or at its physical location: 4200 Surface Road, Columbus, Ohio 43228-1395; or by telephone at (614) 466-8380.~~

For more information about EDGE certification, contact the State of Ohio, Department of Development, Minority Business Division at www.minority.ohio.gov or email certifications@development.ohio.gov.

The Bidder may be subject to a Pre-Award Affirmative Action Compliance Review in accordance with Section 123:2-5-01 of the Ohio Administrative Code including a review of the Bidder's employment records and an on-site review.

The Bidder must indicate on the electronic Bid Form, the locations where its services will be performed in the spaces provided or by attachment in accordance with the requirements of Executive Order 2019-12D related to providing services only within the United States. Failure to do so may cause the Bid to be rejected as non-responsive.

DOMESTIC STEEL USE REQUIREMENTS AS SPECIFIED IN OHIO REVISED CODE SECTION 153.011 APPLY TO THIS PROJECT. COPIES OF OHIO REVISED CODE SECTION 153.011 CAN BE OBTAINED FROM ANY OF THE OFFICES OF THE OHIO FACILITIES CONSTRUCTION COMMISSION.

Bidders are encouraged to be enrolled in and to be in good standing in a Drug-Free Safety Program (“DFSP”) approved by the Ohio Bureau of Workers' Compensation (“OBWC”) prior to submitting a Bid and provide, on the Electronic Bid Form with its Bid, certain information relative to their enrollment in such a program; and, if awarded a Contract, shall comply with other DFSP criteria described in **Section 1.6** of the **General Conditions**.

Electronic bids will be received for:

<u>Trade</u>	<u>Estimate</u>
General Contract	\$460,000
Alternate 1.....	\$110,000

until **April 18, 2024, at 2:00 p.m.** when all Bids will be electronically opened. Bid tabulations will be posted no later than 5:00 p.m. on the day Bids are opened.

All Bidders are strongly encouraged to attend the Pre-Bid Meeting on **April 3, at 10:00 a.m. until approximately 12:00 p.m.** at the following location:

8995 East Main Street
Maintenance Building (Building 18)

The Contractor is responsible for scheduling the Project, coordinating the Subcontractors, and providing other services identified in the Contract Documents.

The Contract Documents may be downloaded as electronic PDF files from the State’s electronic bidding service at <https://bidexpress.com> at no charge.

END OF DOCUMENT

SECTION 23 64 26.13

AIR-COOLED, ROTARY SCREW WATER CHILLERS

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes design, performance criteria, refrigerants, controls, and installation requirements for air-cooled rotary screw packaged chillers.

1.02 REFERENCES

- A. AHRI 550/590 - Standard for Water Chilling Packages using the Vapor Compression Cycle
- B. AHRI 370 - Sound Rating of Large Outdoor Refrigerating and Air-Conditioning Equipment
- C. ASHRAE 15 - Safety Code for Mechanical Refrigeration
- D. ASHRAE 90.1 - Energy Efficient Design of New Buildings
- E. UL 1995 - Central Cooling Air Conditioners
- F. ASTM B117 - Standard Method of Salt Spray (Fog) Testing
- G. ASTM A123 - Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
- H. ASTM A525 - Zinc (Hot-Dip Galvanized) Coatings on Sheet Steel Products
- I. ASTM D1654 - Evaluation of Painted or Coated Specimens, Subjected to Corrosive Environments
- J. ANSI/AFBMA 9-1978 - Load Ratings and Fatigue Life for Ball Bearings.
- K. ASME Boiler and Pressure Vessel Code, Section VIII, Division 1
- L. ANSI/NFPA 70 - National Electrical Code (N.E.C.)
- M. ISO 9001

1.03 SUBMITTALS

- A. Submit dimensional plan and elevation view drawings, weights and loadings, required clearances, location and size of all field connections, electrical requirements and wiring diagrams.
- B. Submit product data indicating rated capacities, accessories and any special data.
- C. Submit manufacturer's installation instructions.

1.04 REGULATORY REQUIREMENTS

- A. Comply with codes and standards specified.
- B. Chiller must be built in an ISO 9001 classified facility.

1.05 VERIFICATION OF CAPACITY AND EFFICIENCY

- A. All proposals for chiller performance must include an AHRI approved selection method. Verification of date and version of computer program selection or catalog is available through AHRI.

1.06 DELIVERY, HANDLING AND STORAGE

- A. Comply with manufacturer's installation instructions for rigging, unloading, and transporting chillers.
- B. Chiller shall be capable of withstanding -40°F (-40°C) to 158°F (70°C) storage temperatures for an indefinite period of time.

1.07 WARRANTY

- A. Provide a full parts, labor, and refrigerant warranty for one year from start-up or 18 months from shipment, whichever occurs first.
- B. Extended 2nd-5th year compressor parts warranty

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Air cooled scroll water chillers are based on Trane Model RTAF. Chillers by the following manufacturers of the same type, size, capacity, and meeting other requirements may be furnished at the Contractor's option:
 - 1. Daikin
 - 2. York
 - 3. Carrier

2.02 CHILLER DESCRIPTION

- A. The contractor shall furnish and install air-cooled water chiller with screw compressors as shown as scheduled on the contract documents. The chillers shall be installed in accordance with this specification and perform at the specified conditions as scheduled.

2.03 CHILLER OPERATION

- A. Chiller shall be able to start and operate in ambient conditions down to 0°F (-18°C) and up to 115°F (46°C). Low ambient operation is accomplished with factory installed and tested protection. If field installed low ambient solution is used this shall be purchased and installed at contractor expense.

- B. Chiller shall be capable of operating with a leaving solution temperature range 40 to 65°F (4.4 to 20°C) without glycol.
- C. Chiller shall be capable of starting up with 95°F (35°C) entering fluid temperature to the evaporator. Maximum water temperature that can be circulated with the Chiller not operating is 108°F (42°C)
- D. Chiller shall provide evaporator freeze protection and low limit control to avoid low evaporator refrigerant temperature trip-outs during critical periods of chiller operation. Whenever this control is in effect, the controller shall indicate that the chiller is in adaptive mode. If the condition exists for more than 30 seconds, a limit warning alarm relay shall energize.
- E. Quick start after power restoration. The Chiller shall be capable of starting in 45 seconds.

2.04 COMPRESSORS

- A. Construct chiller using semi-hermetic, variable speed drive, helical rotary screw compressors.
- B. Provide compressor motor that is suction gas cooled with robust construction and system design protection.
- C. Provide oil lubrication system with oil charging valve and oil filter to ensure adequate lubrication during starting, stopping, and normal operation.
- D. Provide compressor heater to evaporate refrigerant returning to compressor during shut down. Energize heater when compressor is not operating.
- E. Provide compressor with automatic capacity reduction equipment consisting of capacity control via variable speed drive and/or slide valve. Compressor must start unloaded for soft start on motors.
- F. Chiller shall be capable of operation down to 15% load without hot gas bypass.

2.05 EVAPORATOR

- A. The evaporator shall be designed, tested, and stamped in accordance with ASME code for a refrigerant side working pressure of 200 psig. Waterside working pressure shall be 150 psig.
- B. Insulate the evaporator with a minimum of 0.75 inch (K=0.28) UV rated insulation. If the insulation is field installed, the additional money to cover material and installation costs in the field should be included in the bid.
- C. Evaporator heaters shall be factory installed and shall protect chiller down to -4°F (-20°C). Contractor shall wire separate power to energize heat tape and protect evaporator while chiller is disconnected from the main power.

- D. Provide shell and tube type evaporator, seamless or welded steel construction with cast iron or fabricated steel heads, seamless internally and externally finned copper tubes, roller expanded into tube sheets.
- E. Provide ability to remove evaporator tubes from either end of the heat exchanger. Evaporator shall have cleanable tubes.
- F. Provide water drain connection, vent and fittings. Factory installed leaving water temperature control and low temperature cutout sensors.
- G. Water connections shall be grooved pipe.
- H. Proof of flow shall be provided by the equipment manufacturer, mechanically installed and electrically wired, at the factory of origin.

2.06 FANS

- A. All condenser fans shall have drives to provide variable speed for optimized efficiency.
- B. All condenser fan TEAO motors have permanently lubricated ball bearings and external overload protection.

2.07 CONDENSER

- A. The condenser coils shall consist of aluminum tubes mechanically bonded into plate-type aluminum fins. A subcooling coil shall be an integral part of the main condenser coil. Air test under water to 350 psig.

2.08 ENCLOSURES/CHILLER CONSTRUCTION

- A. Units shall be constructed of a galvanized steel frame with galvanized steel panels and access doors.
- B. Chiller panels, base rails and control panels shall be finished with a baked on powder paint. Control panel doors shall have door stays.
- C. Mount starters and Terminal Blocks in a UL 1995 rated weatherproof panel provided with full opening access doors. If a circuit breaker is chosen, it should be a lockable, through-the-door type with an operating handle and clearly visible from outside of chiller indicating if power is on or off.
- D. The coating or paint system shall withstand 500 hours in a salt-spray fog test in accordance with ASTM B117.
- E. Chiller shall be provided with hail guard to protect condensing coil.

2.09 CHILLER MOUNTED VARIABLE SPEED DRIVE (VSD)

- A. The water chiller shall be furnished with an air cooled variable speed drive (VSD) as shown on the drawings.
- B. The VSD efficiency shall be 97% or better at full speed and full load.
- C. Power semi-conductor and capacitor cooling shall be from a liquid or air cooled heat sink.
- D. Unit shall have a single point power connection.
- E. A molded case high fault interrupting capacity circuit breaker shall be factory pre-wired with terminal block power connections and equipped with a lockable external operator handle, making it available to disconnect the chiller from main power.
- F. A control power transformer shall be factory-installed and factory-wired to provide unit control power.
- G. Unit wiring shall run in liquid-tight conduit.
- H. High short circuit current rating (SCCR) of 65kA for 380V and 460V chillers with selection of high fault protection device.
- I. Customer wired 15 amp, 115 volt GFCI convenience outlet shall be factory mounted on the exterior of the control panel.

2.10 REFRIGERANT CIRCUIT

- A. All chillers shall have two (2) refrigeration circuits, each with one or two (manifolded) compressor(s) on each circuit.
- B. provide for refrigerant circuit:
 - 1. Liquid line shutoff valve
 - 2. Suction service valve
 - 3. Discharge service valve
 - 4. Filter (replaceable core type)
 - 5. Liquid line sight glass.
 - 6. Electronic expansion valve sized for maximum operating pressure
 - 7. Charging valve
 - 8. Discharge and oil line check valves
 - 9. High side pressure relief valve
 - 10. Integrated oil loss sensor

- C. Full operating charge of R513A and oil.
 - 1. Provide a fully convertible and compatible next generation low GWP refrigerant chiller.
 - 2. If the chiller cannot be factory supplied as a fully convertible and compatible next generation low GWP refrigerant chiller, then the Contractor shall provide a field retrofit or a refrigerant guarantee.

2.11 CONTROLS

- A. Factory-mounted to the control panel door, the operator interface has an LCD touch-screen display
- B. Display shall consist of a menu driven interface with easy touch screen navigation to organized sub-system reports for compressor, evaporator, and motor information as well as associated diagnostics.
- C. The chiller control panel shall provide password protection of all set-points
- D. Chilled water temperature control shall be microprocessor-based, proportional and integral controller to show water and refrigerant temperature, refrigerant pressure, and diagnostics. This microprocessor-based controller is to be supplied with each chiller by the chiller manufacturer.
- E. The front of the chiller control panel shall display the following in clear language, without the use of codes, look-up tables, or gauges:
 - 1. Run time.
 - 2. Number of starts.
 - 3. Current chiller operating mode.
 - 4. Chilled water set point and set point source.
 - 5. Electrical current limit set point and set point source.
 - 6. Entering and leaving evaporator water temperatures.
 - 7. Saturated evaporator and condenser refrigerant temperatures.
 - 8. Evaporator and condenser refrigerant pressure.
 - 9. Differential oil pressure.
 - 10. Phase reversal/unbalance/single phasing and over/under voltage protection.
 - 11. Low chilled water temperature protection.
 - 12. High and low refrigerant pressure protection.
 - 13. Load limit thermostat to limit compressor loading on high return water temperature.
 - 14. Condenser fan sequencing to automatically cycle fans in response to load, expansion valve pressure, condenser pressure, and differential pressure to optimize chiller efficiency.
 - 15. Display diagnostics.
 - 16. Compressors: Status (on/off), %RLA, anti-short cycle timer, and automatic compressor lead-lag.

- F. On chiller, mount weatherproof control panel, containing starters, power and control wiring, factory wired with terminal block power connection. Provide primary and secondary fused control power transformer.
- G. The chiller controller shall utilize a microprocessor that will automatically take action to prevent chiller shutdown due to abnormal operating conditions associated with: evaporator refrigerant temperature, high condensing pressure and motor current overload.
- H. Provide the following safety controls with indicating lights or diagnostic readouts.
 - 1. Low chilled water temperature protection.
 - 2. High refrigerant pressure.
 - 3. Loss of chilled water flow.
 - 4. Contact for remote emergency shutdown.
 - 5. Motor current overload.
 - 6. Phase reversal/unbalance/single phasing.
 - 7. Over/under voltage.
 - 8. Failure of water temperature sensor used by controller.
 - 9. Compressor status (on or off).
- I. Provide the following operating controls:
 - 1. A variable method to control capacity in order to maintain leaving chilled water temperature based on PI algorithms. Five minute solid state anti-recycle timer to prevent compressor from short cycling. Compressor minimum stop-to-start time limit shall be 2 minutes. If a greater than 5 minute start-to-start, or greater than 2 minute stop-to-start timer is included, hot gas bypass shall be provided to insure accurate chilled water temperature control in light load applications.
 - 2. Chilled water pump output relay that closes when the chiller is given a signal to start.
 - 3. Load limit thermostat to limit compressor loading on high return water temperature to prevent nuisance trip outs.
 - 4. High ambient unloader pressure controller that unloads compressors to keep head pressure under control and help prevent high pressure nuisance trip outs on days when outside ambient is above design.
 - 5. Compressor current sensing unloader chiller that unloads compressors to help prevent current overload nuisance trip outs.
 - 6. Low ambient lockout control with adjustable setpoint.
 - 7. Condenser fan sequencing which adjusts the speed of all fans automatically in response to ambient, condensing pressure and expansion valve pressure differential thereby optimizing chiller efficiency.
- J. Provide user interface on the front of the panel. If display is on the inside of the panel, then a control display access door shall be provided to allow access to the display without removal of panels. Provide user interface with a minimum of the following features:
 - 1. Leaving chilled water setpoint adjustment from BAS input
 - 2. Entering and leaving chilled water temperature output
 - 3. Pressure output of condenser

4. Pressure output of evaporator
 5. Ambient temperature output
 6. Voltage output
 7. Current limit setpoint adjustment from BAS input.
- K. The chiller control panel shall provide leaving chilled water temperature reset based upon return water temperature.
- L. Digital Communications to BAS system shall consist of a BACnet MS/TP interface via a single twisted pair wiring. BAS system shall have a hard wired start/stop signal. BAS shall be able to monitor the following through BACnet:
1. Common alarms
 2. CWS and CWR readings
 3. CWS Setpoint
 4. Status of Chiller

2.12 SOUND

- A. Acoustics: Manufacturer must provide both sound power and sound pressure data in decibels. Sound pressure data per AHRI 370 must be provided at full load. In addition, A-weighted sound pressure at 30 feet should be provided at 100% load point.
- B. If manufacturer cannot meet the noise levels, sound attenuation devices and/or barrier walls must be installed to meet this performance level.

2.13 ACCESSORIES

- A. Chiller shall have full architectural louver panels.
- B. Chiller shall ship with elastomeric isolators.

PART 3 EXECUTION

3.01 INSTALLATION

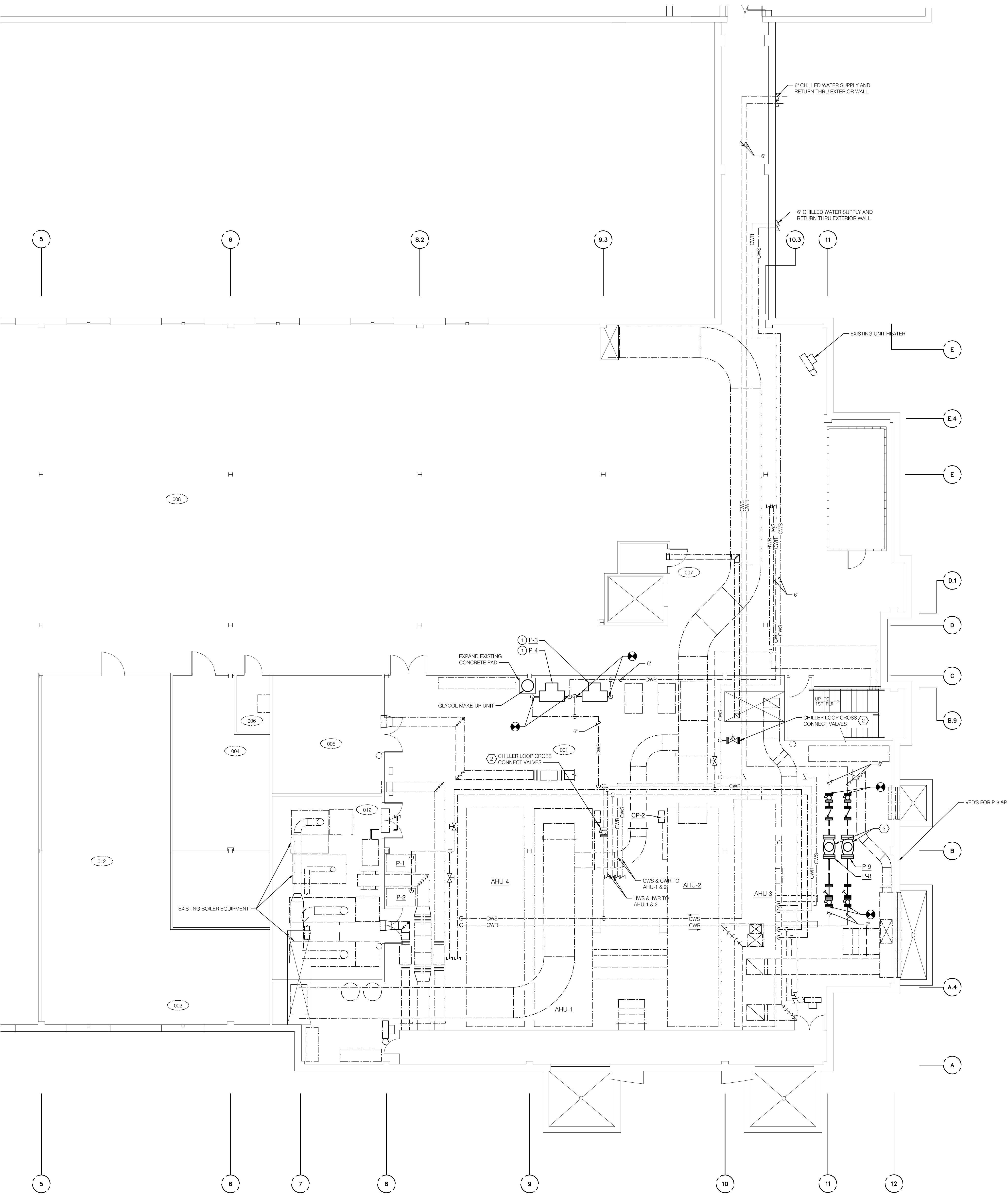
- A. Install in accordance with manufacturer's requirements.
1. Level the chiller using the base rail as a reference. The chiller must be level within 1/4 in over the entire length and width. Use shims as necessary to level the chiller.

3.02 SERVICE AND START-UP

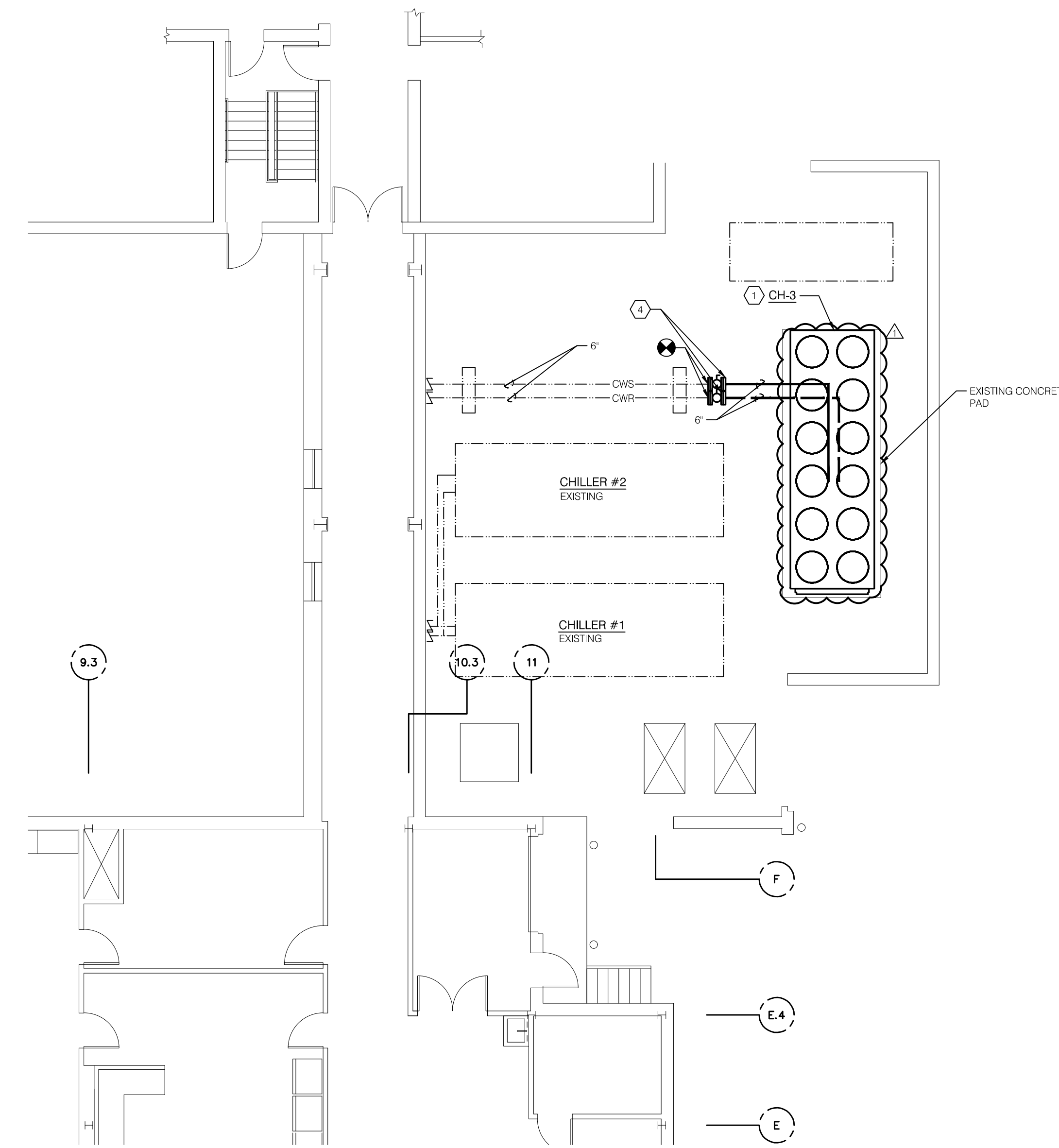
- A. Startup - Provide all labor and materials to perform startup. Startup shall be performed by a factory-trained technician from the original equipment manufacturer (OEM). Technician shall confirm that equipment has been correctly installed and passes specification checklist prior to equipment becoming operational and covered under OEM warranty. This shall be done in strict accordance with manufacturer's specifications and requirements. Third-party service agencies are not permitted.
- B. A start-up log shall be furnished by the factory approved start-up technician to document the chiller's start-up date and shall be signed by the owner or his authorized representative prior to commissioning the chillers.
- C. Chiller manufacturers shall maintain service capabilities no more than 25 miles from the jobsite.
- D. Provide local service agent with direct access to factory support on equipment.

END OF SECTION

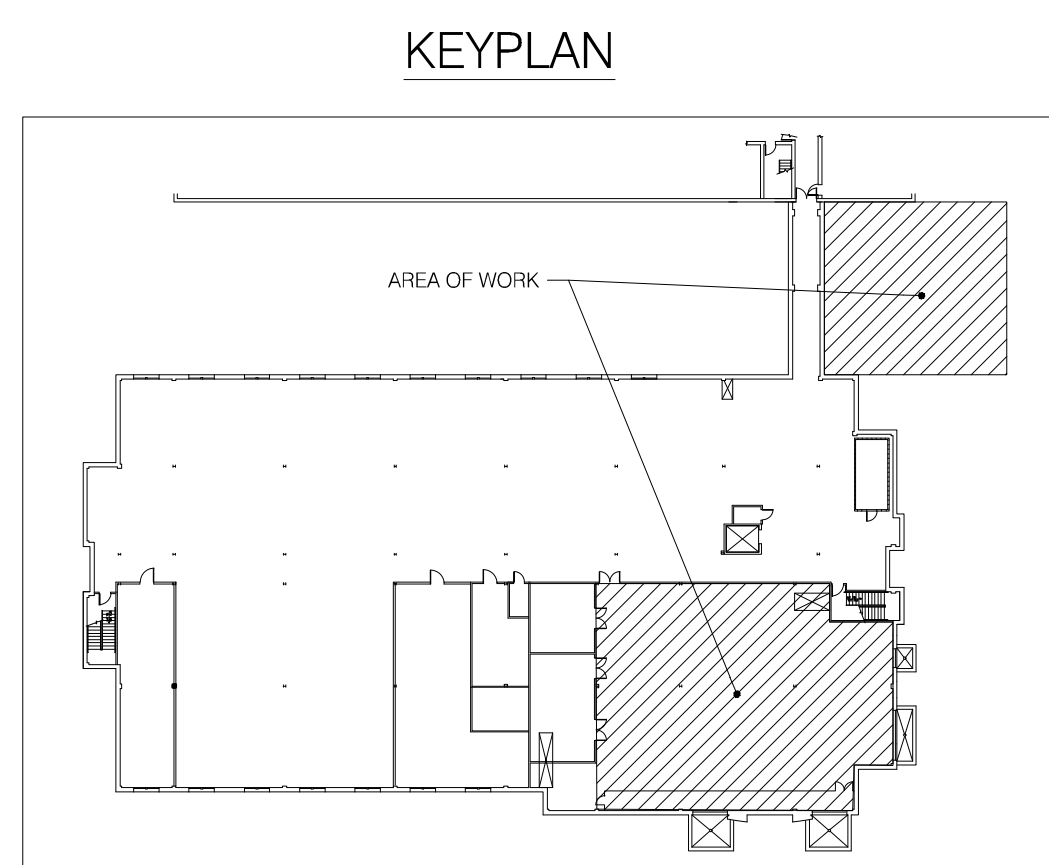
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BASEMENT FLOOR HVAC PLAN
SCALE: 1/8" = 1'-0"



FIRST FLOOR HVAC PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES

1. SHUTDOWN FOR THE CHILLED WATER SYSTEM WORK MAY OCCUR BETWEEN THE MONTHS OF DECEMBER 2024, JANUARY AND FEBRUARY OF 2025. PUMPS TO BE INSPECTED BEFORE MARCH OF 2025.
2. THE EXISTING CHILLED WATER SYSTEM SHALL BE DRAINED. ONCE PIPING MODIFICATIONS HAVE BEEN COMPLETED, THE SYSTEM SHALL BE CLEANED, FLUSHED AND FILLED WITH WITH 40% ETHYLENE GLYCOL SOLUTIONS, AND PURGED OF AIR. CHEMICAL TREATMENT OF CHILLED WATER SYSTEM SHALL BE BY OWNER.

CODED NOTES

1. MOUNT NEW CHILLER ON GALVANIZED SUPPORT STEEL SIMILAR TO CH-1 AND CH-2. COORDINATE WITH CHILLER MANUFACTURER REQUIREMENTS. MOUNT ON EXISTING CONCRETE PAD. SEE DETAIL ON SHEET M200.
2. CROSS CONNECT VALVES REMAIN CLOSED AND ONLY BE OPENED FOLLOWING CH-3 FAILURE.
3. MOUNT VFD FOR P-3 AND P-4 ON WALL NEAR PUMPS.
4. NEW VALVE TO BE STAINLESS STEEL.

ALTERNATE 1

1. PROVIDE NEW END SUCTION PUMP VFD. PROVIDE NEW 4" EQUIPMENT CURB FOR PUMP.



HAWA engineers
HAWA Engineers
880 COLLEGE GREEN ROAD
COLUMBUS, OHIO 43205-6148-11711
4025 DIXIE DRIVE, SUITE 100
CINCINNATI, OHIO 45241-5137-1658

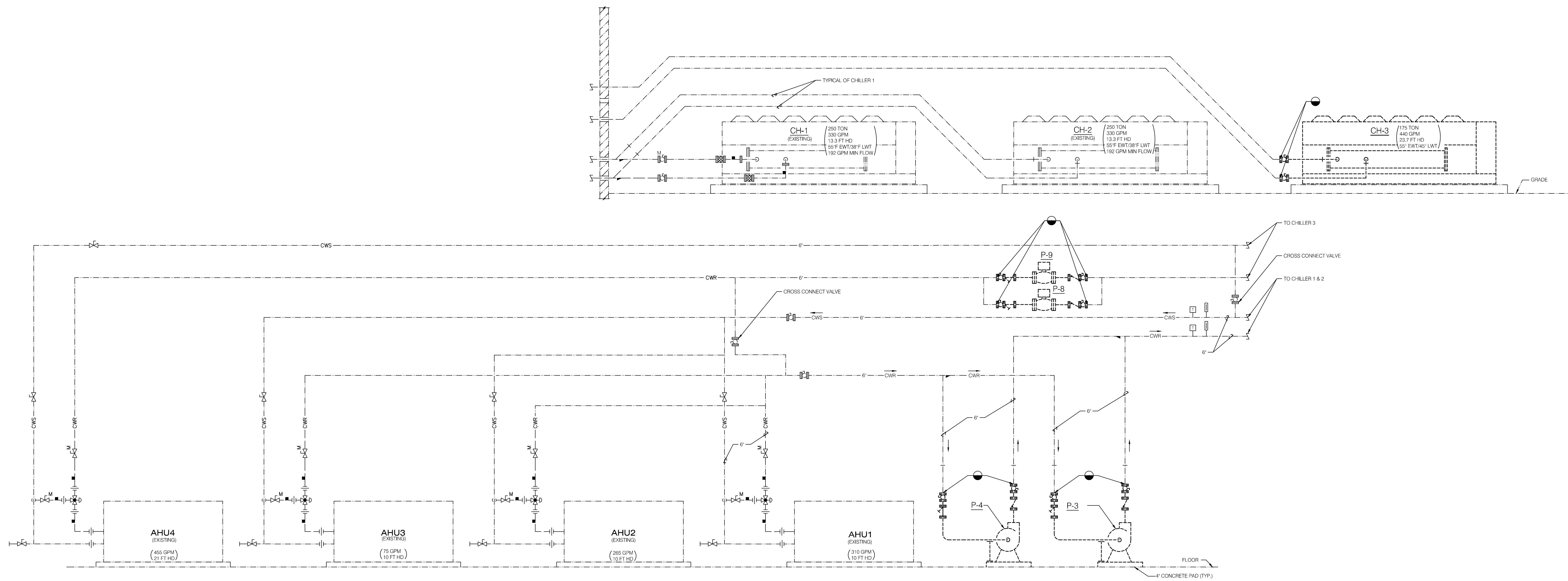
ODA - Bldg 3
Chiller Replacement
OHIO DEPT. OF AGRICULTURE
BLDG. 3 FACILITY
REYNOLDSBURG, OHIO

No.	DATE:	REVISIONS:	BY:
1	04-09-24	ADDENDUM 1	
	03-25-24	BID SET	

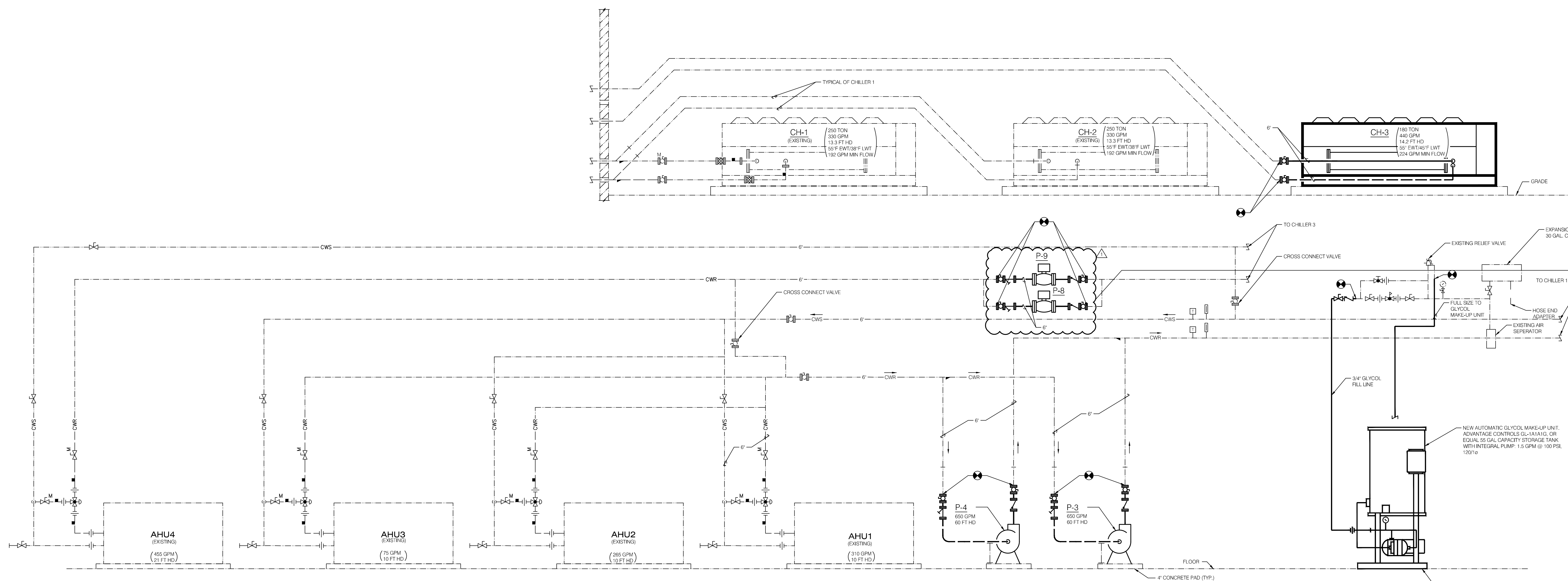
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Designed By:	TSK
Drawn By:	TSK
Checked By:	NBH
Issue Date:	03/25/2024
Sheet:	of

BASEMENT FLOOR HVAC PLAN

M200



DEMO CHILLED WATER PIPING SCHEMATIC



NEW CHILLED WATER PIPING SCHEMATIC

ODA - Bldg 3
Chiller Replacement
OHIO DEPT. OF AGRICULTURE
BLDG. 3 FACILITY
REYNOLDSBURG, OHIO

No.	DATE	REVISIONS	BY
1	04-09-24	ADDENDUM 1	
	03-25-24	BID SET	

Project No:
23100-00
Designed By:
TSK
Drawn By:
TSK
Checked By:
NBH
Issue Date:
03/25/2024
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HVAC DETAILS

M500

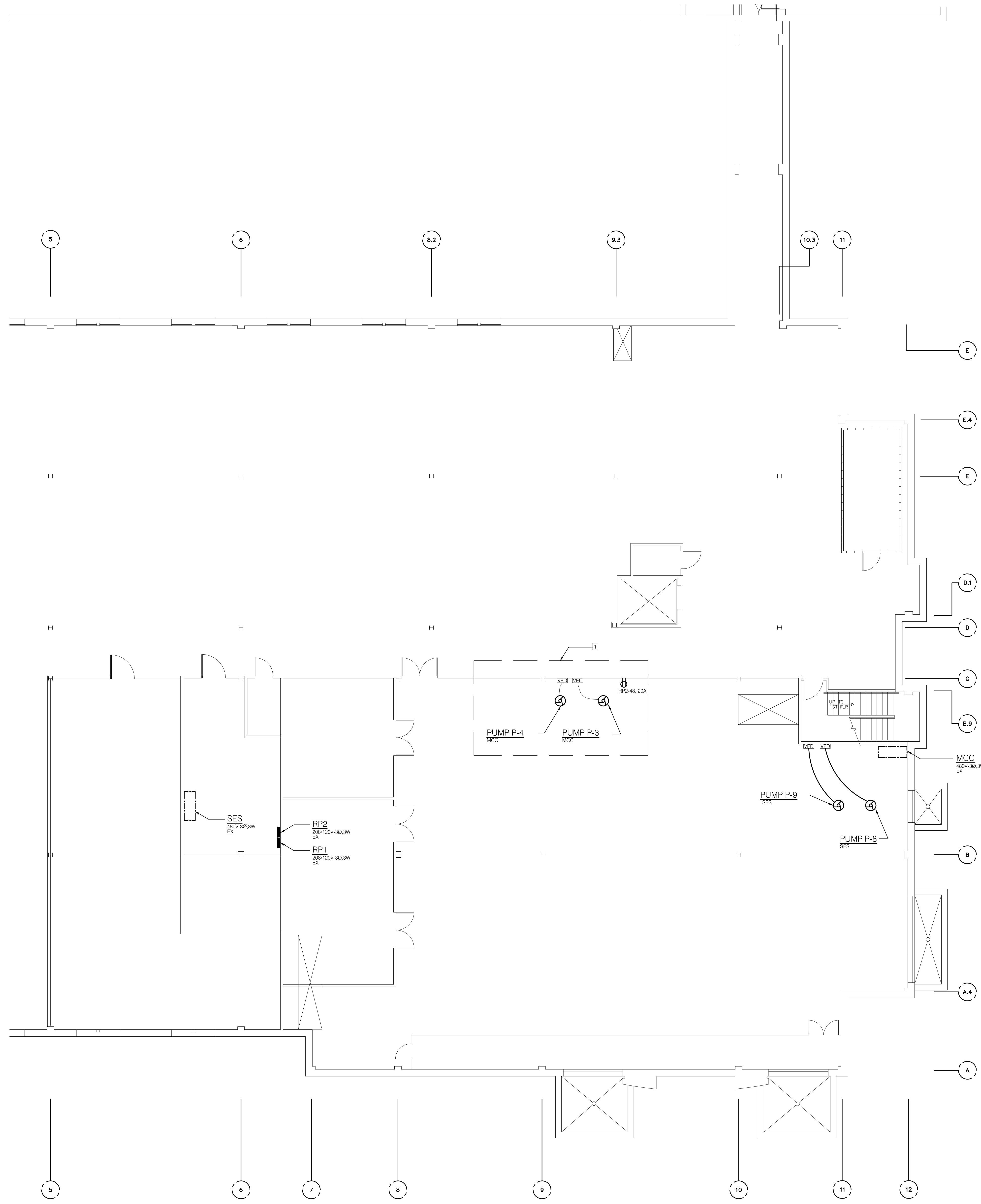
ABBREVIATION KEY	
ED	= EXISTING TO BE REMOVED
EX	= EXISTING TO REMAIN
ER	= EXISTING TO BE RELOCATED

LINE TYPE	
	EXISTING TO REMAIN
	TO BE DEMOLISHED
	NEW WORK

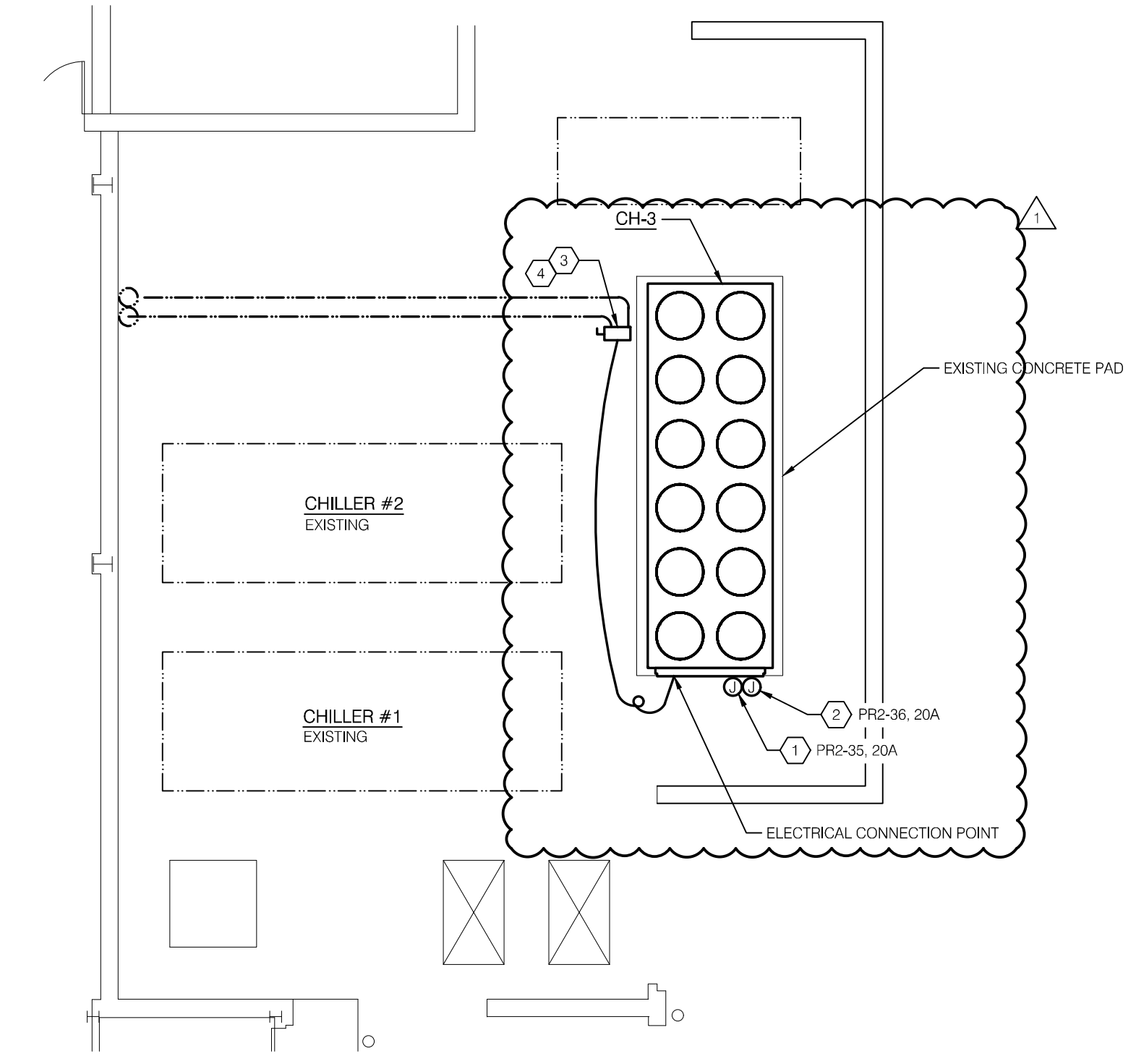
GENERAL NOTES	
1.	EXISTING WORK IS BASED ON EXISTING ENGINEERING DOCUMENTS PROVIDED BY THE OWNER. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO NEW WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
2.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF NEW WORK. CUTTING OF STRUCTURAL MEMBERS IS PROHIBITED WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE ARCHITECT.
3.	ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS OR SHAFTS SHALL BE SEALED WITH FIRESTOPPING.

CODED NOTES	
1.	PROVIDE 120V CONNECTION FOR CHILLER #3 POWER RELAYS AND MAKE FINAL CONNECTIONS. RUN CONDUIT ALONG EXISTING CHILLER WATER PIPES. PROVIDE LINK-SEAL AT BUILDING PENETRATION.
2.	PROVIDE 120V CONNECTION FOR CHILLER #3 EVAPORATOR HEATER AND MAKE FINAL CONNECTIONS. RUN CONDUIT ALONG EXISTING CHILLER WATER PIPES. PROVIDE LINK-SEAL AT BUILDING PENETRATION.
3.	PROVIDE GALVANIZED UNISTRUT STAND FOR DISCONNECT. EXTEND EXISTING CONDUIT TO DISCONNECT. PULL EXISTING FEEDER INTO CONDUIT AND MAKE FINAL CONNECTIONS TO DISCONNECT.
4.	PROVIDE ELECTRICAL FEED FROM DISCONNECT TO CHILLER AND MAKE FINAL CONNECTION. PROVIDE FLEXIBLE CONDUIT FROM DISCONNECT TO CHILLER.

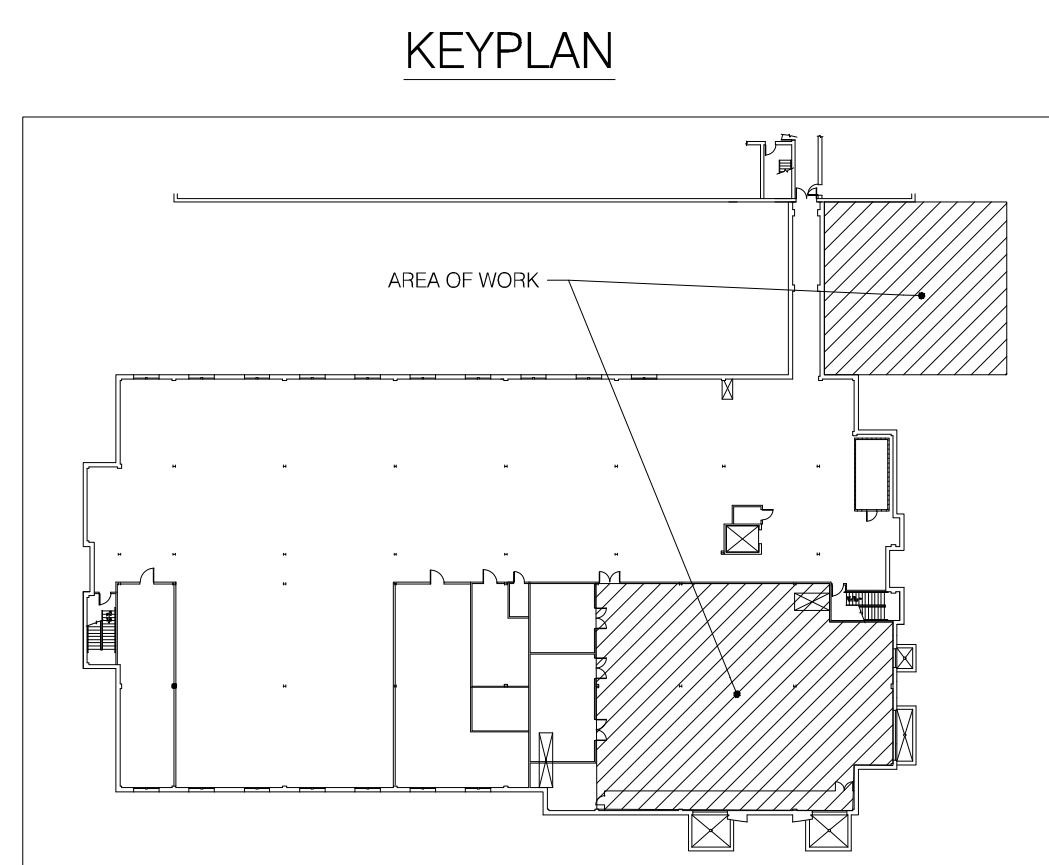
ALTERNATES	
1.	ALTERNATIVE 1: REPLACE EXISTING PUMP #3 AND PUMP #4 WITH NEW PUMPS AS SHOWN. REMOVE STARTER FROM MCC AND ADD VFD UNITS FOR PUMP #3 AND PUMP #4.



BASEMENT FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



ODA - Bldg 3
Chiller Replacement
OHIO DEPT. OF AGRICULTURE
BLDG. 3 FACILITY
REYNOLDSBURG, OHIO

No.	DATE	REVISIONS	BY
1	04-09-24	ADDENDUM 1	
	03-25-24	BID SET	

Project No:	23100-00
Designed By:	L. RADLOFF
Drawn By:	BSJ
Checked By:	BFS
Issue Date:	03/25/2024
Sheet:	of

BASEMENT FLOOR ELECTRICAL PLAN

E200

Project Pre-bid meeting
April 3rd, 2024, 10:00 AM
Project AGR-240001
Building 3 (CPL) Chiller Replacement Project
Ohio Facility Construction Commission
Ohio Department of Agriculture

1. Contact Persons

Owner Representative

Ed Davisson
Asst. Chief of Operations and Facilities Maintenance
Ed.davisson@agri.ohio.gov
Cell; 614-701-7808

Owner Representative

Todd Schumacher
Operation and Facilities Maintenance
Todd.schumacher@agri.ohio.gov
614-374-7241

Contracting Authority (OFCC)

Project Manager:

WeiDong Huang, PE
614-644-8290
614-653-3986 (Cell)
Weidong.huang@ofcc.ohio.gov

Project Coordinator:

Gary Kubicki
614-296-2017
Gary.kubicki@ofcc.ohio.gov

Design Engineer

HAWA
Trevor Kuhlman
614-451-1711
tskuhlman@hawainc.com

Engineering Project Manager:

HAWA
D. Andrew Fouss, PE
614-451-1711
dafouss@hawainc.com

2. Limited Scope of work Documents

Documents have been delivered to Bid Express and OFCC website.
Addenda, Q&A, update and additional information will be sent out thru email and bid express.
Request bid express ID minimum of one week before the bids due in order to bid the project.

3. Calendar of Events

- Bid Document Issued March 25th, 2024
- Inquiry(RFI) Period..... until April 9th, 2024
- Site Visit April 3rd, 2024 (additional visit upon request)
- Equipment substitution request.....April 8th, 2024 (10 days before the bids due)
- Addendum issue deadline.....April 11th, 2024 at 2:00 pm
- Bids Deadline..... April 18th, 2024 at 2:00 PM
- Notice of Intent to Award (est. date)..... June 18th, 2024 (estimated otherwise bid extension required)

4. Communication

- 1. Bidding document (download from Bid Express)
- 2. Bidexpress

Bid Express sign up does take a little while (at least 1 week) so don't delay in getting set up. If you have any questions, please contact Gary.

- 3. Inquiries
 - a. Send inquiries to: gary.kubicki@ofcc.ohio.gov
 - b. Responses and addendums will be issued to all contractors

Only information provided through these forms of communication can be used to develop a response to the bidding document.

5. Walkthroughs & Security

Any contractors who are interested in participating in the bid are welcome to attend the site visits / walkthroughs. Additional walkthroughs may be offered if needed, at the discretion of the Owner and Contracting Authority. The scheduled walkthroughs will be as thorough as possible given the time allowed, but may not offer access to all spaces in buildings.

6. Contract Policy

- a) Apply for EEO Status if have not done so.
- b) Minimum EDGE requirement is 5.0% of total project cost.
- c) Prevailing wages is required to this project
- d) Drug-Free Safety Program is required for all companies before performing labor on-site.
- e) OAKS-CI will be used as construction administration program, training can be provided upon request
- f) Contractor License
- g) Permit

7. Base bid Scope of work and Alternates

This is a capital project funded thru Ohio Department of Agriculture, the estimated cost for the base bid is \$460,000. The project scope includes the replacement of (1) chiller and the associated pumps and piping. An alternative includes the replacement of (2) pumps additional pumps with a budget of \$110,000.

