1. The basis of design for the packaged rooftop units is based on Carrier. Are we allowed to solicit bids from other manufacturers like Trane, Lennox, York and Daikin or do we need to stay with the basis of design?
    a. Answer: Any packaged rooftop unit is acceptable as long as it meets the design criteria and all federal, state, base regulations, and is approved through the standard submittal and approval process for this project.
2. The anticipated lead time for the Carrier packaged rooftop units is currently 34 weeks. Will the performance period be extended to allow for the lead time?
    a. Answer: Should Carrier be the brand of the unit you choose to install, an extension of the period of performance may be considered. This being said, Carrier is not (and cannot be) required to be the installed brand, any brand which meets the requirements is acceptable (see answer to question 1). If a 34 week lead time, or similar lead time, is expected for Carrier, or any other brand of unit considered for this project, we would ask the contractor to look at other packaged units which meet the same requirements to see if other units would have a shorter lead time.

3. The platform on S-101 is there an access from the ground level to the deck of the platform?

    a. Answer: The platform is not a maintenance platform, it is a support platform for the downstream heaters for AHU-1 and so no railing, ladder, or stairs is needed for the platform. See keyed note 3 on M-400, “See structural plans for support structure for gas fired duct heaters required at AHU-1 connection to building not intended to be a service platform. Use ladder to service heaters.”

4. Will the platform require handrail?

    a. Answer: The support platform for the two downstream heaters for AHU-1 will not require a handrail. See answer to question 3.

5. What will be the top of grating height?

    a. Answer: This answer is assuming the question refers to the grating at the top of the support platform for the two downstream heaters for AHU-1. The contractor will coordinate the height of the support platform with the height of the downstream heaters and ductwork during construction. The height of the platform and the height of the ductwork are not specified in the drawings but can be determined by the contractor to best meet the requirements of the equipment installed, ie: air flow, height, positioning, etc. requirements. See structural keyed note “K” on page S-101, “Contractor to coordinate all dimensions with mechanical drawings and equipment requirements. Contractor to verify steel structure does not interfere with mechanical equipment layout, typ.” See also, structural keyed note “C” on S-101, “…contractor to coordinate location of mechanical platform with mechanical + equipment requirements. This platform is a mechanical support platform and is not intended to be a service platform.” and structural plan note 5, “Contractor to coordinate platform location, elevation, dimensions and size with architectural, mechanical and equipment.”

6. Drawing S-101 shows all welded connections. The material is shown to be galvanized with welded connections should there be some bolted connections or is a cold galvanize paint sufficient at the field welded connections?

    a. Answer: Follow what is shown on the structural drawings for connection points. In short, yes, all connections should be welded. A cold galvanized paint will be sufficient if the welds are properly cleaned and prepped prior to the application of the paint or field galvanizing process.

7. The galvanized grating should this be clipped to the beams or welded?

    a. Answer: The grating should be welded to the beams. Follow the direction for painting galvanized metal as shown in answer to question 6.

8. What is the length of new the pads for AH-1 & AH-2?
    a. Answer: Using the basis of design packaged units (Carrier), the equipment pad for AHU-2 can be reused without any addition to its footprint. The equipment pad for AHU-1 is also meant to remain and have the footprint be added to, although there are no dimensions for either equipment pad. We ask the contractor to coordinate the equipment pad size based on the size of the AHU chosen so that the equipment pad is reasonably, but not excessively, larger then the footprint of the AHU.

9. The Sprinkler heads in the main bays are approaching 40+ years old. NFPA requires them to be replaced at 50. Is this something that the Government would like to have done?
    a. Answer: No, the fire suppression system for this building is not to be included in this project. Existing plans for upgrading this building's fire suppression system are already under way.

10. Will this Hangar's Fire Suppression need to be upgraded to comply with the Sundown Policy in effect?
    a. Answer: No, the fire suppression system for this building is not to be included in this project. Existing plans for upgrading this building's fire suppression system are already under way.

11. The CE Fire Suppression shops are wanting to have a Wall PIV or a Butterfly Valve install at the bottom of Fire Risers where they are controlled with Ground PIV outside. Is this something the Government would like to have done?
    a. Answer: No, the fire suppression system for this building is not to be included in this project. Existing plans for upgrading this building's fire suppression system are already under way.

12. Please provide photo of "MDP" with name plate information that we are to provide and install new breakers in.

13. This is a question for your design team, will new HVAC/VFD units have disconnects on them?

    a. Answer: Electrical disconnects are required for all HVAC and VFD units. Unfortunately these may not be shown on the drawings, but proper disconnects which meet all safety regulations and which are properly rated for the workload they are installed for, will be required.

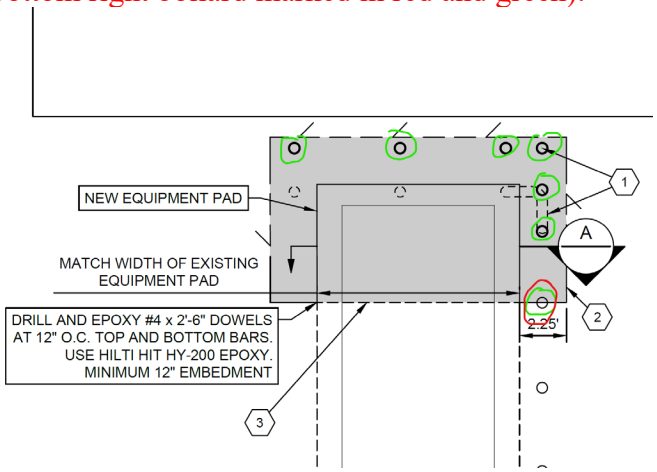
14. Please provide pictures of all HVAC controls, panels, conduit, etc.
    a. Answer: see pictures at end of this document.

15. Please provide pictures of the HVAC ducting, leaders, conduit, electrical panels, transformers, etc.
    a. Answer: see pictures at end of this document.

16. Please provide pictures of the VFD's, conduit, controls, etc.
    a. Answer: see pictures at end of this document.

17. Sheet C-001 note #1 says there are 7ea new bollards to be installed per the details but only 6ea bollards are shown. Where is the location of the 7th bollard?

    a. Answer: See 7 marked bollards in screenshot below. The bottom right bollard marked in green and red was not properly marked in drawing set and may not require removal, although it could need to be removed. Plan on the removal of 4 bollards instead of 3 (the bottom right bollard marked in red and green being the 4th). Also plan on the installation of all 7 bollards as marked below (including the bottom right bollard marked in red and green).



18. Per drawing sheet C-001, this project calls for an extension to be added to the existing air handler equipment pad. The SPECs show Division 03 – Concrete as being "not used." Will the government please provide Division 03 – Concrete specifications that will need to be part of this project for the equipment pad addition?
    a. Answer: specs are attached to email.

19. Per drawing sheet C-001, this project calls for some new asphalt material to be added (PG 58-28). The SPECs do not include the Division 32 – Asphalt specifications. Will the government please provide Division 32 – Asphalt specifications that will need to be part of this project for the new asphalt?
    a. Answer: Specs are attached to the email.

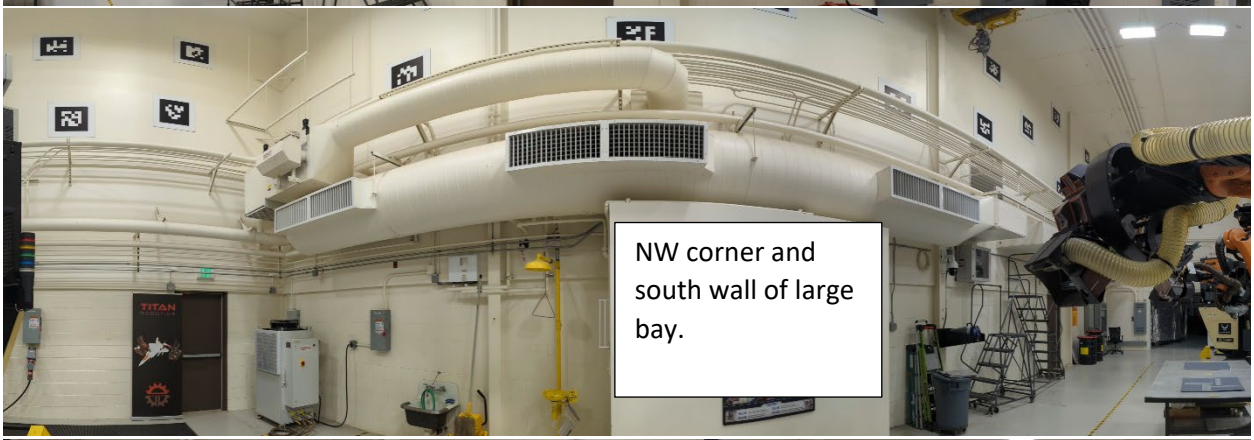
20. Drawing sheet C-002 Concrete note #1 makes mention to specifications ACI-301, ACI-304, ACI-604 (306), and ACI-605 (305) which were not included with the bid documents. Would the government please provide these documents/standards so bidding contractors can follow them as directed?

    a. Answer: ACI specifications are the recognized industry standard for concrete and contractors should be at least somewhat familiar with these standards. The government does not provide these standards to contractors, contractors are expected to know and be able to implement the standards.

Transformer in NE corner of large bay.

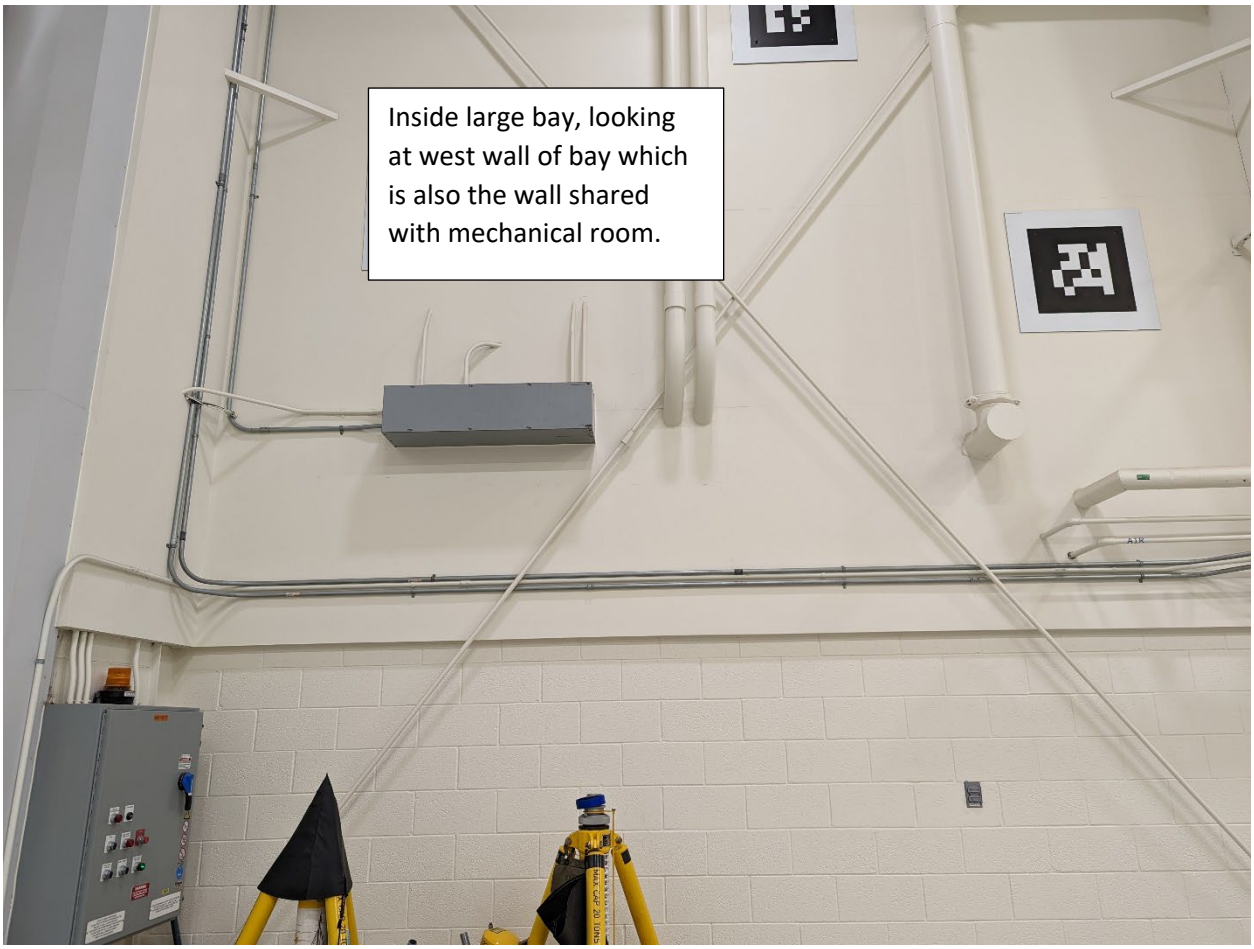

208/120 VOLTS
Transformer in NE corner of large bay.
NC44S
PANEL LIC 120/208 VOLT
Full Room Scanner
607

NE corner and south wall of large bay.



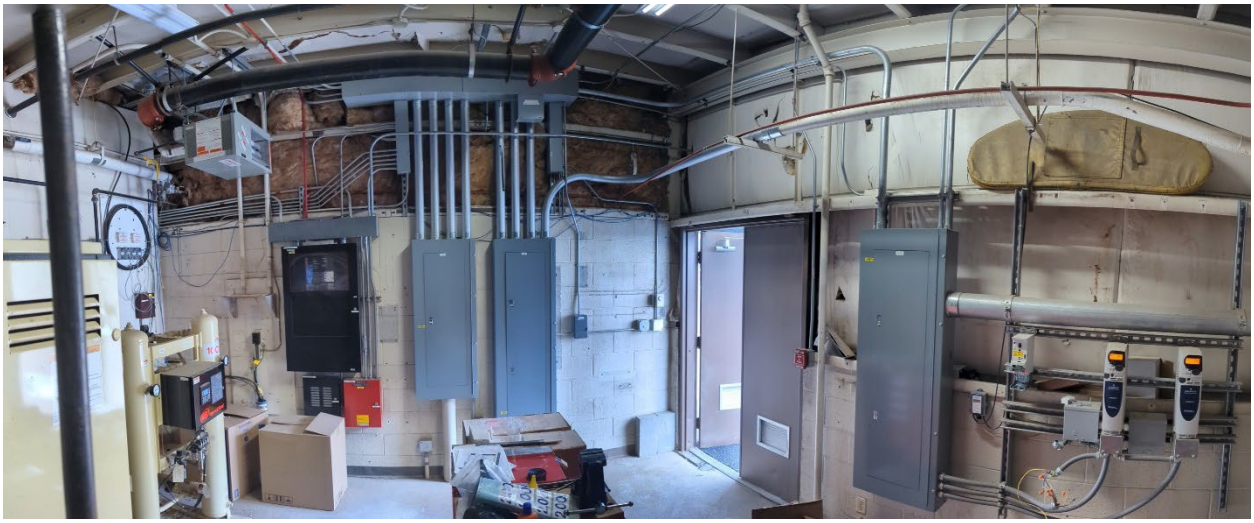
NW corner and south wall of large bay.

West wall of large bay.

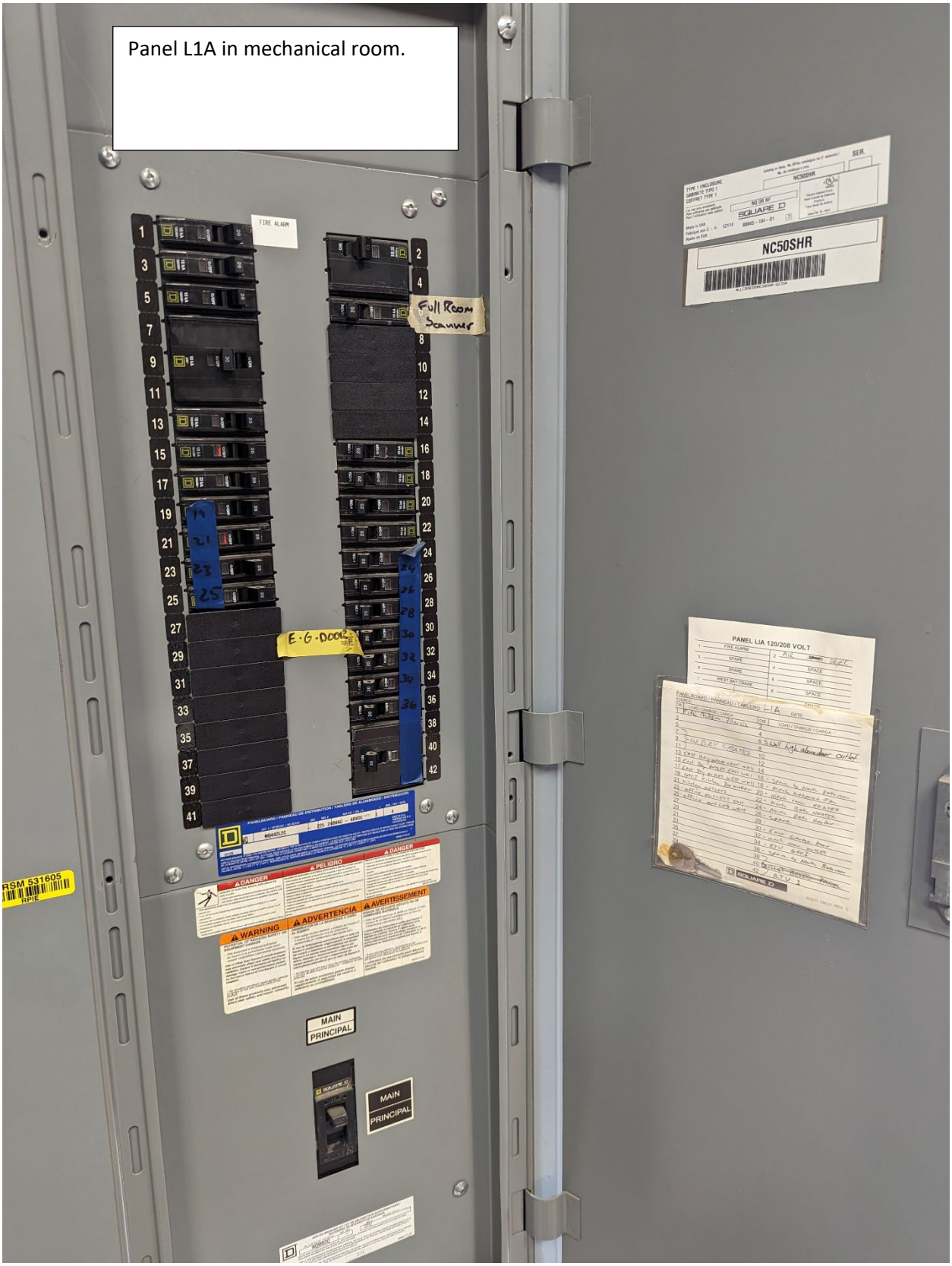

Inside large bay, looking at west wall of bay which is also the wall shared with mechanical room.

Control modules inside office area which allow control of HVAC system remotely.


Communications box in office area where EMCS will need to be ran through.
SIECOR
RACK 1



Mechanical room electrical conduit, panels, and VFDs.


Panel L1A in mechanical room.
FIRE ALARM
Full Room Scanner
E-G-D005
NC50SHR
SQUARE D
PANEL L1A 120/208 VOLT
MAIN PRINCIPAL
MAIN PRINCIPAL
DANGER
PELIGRO
AVERTISSEMENT
WARNING
ADVERTENCIA

Panel L1B in mechanical room.

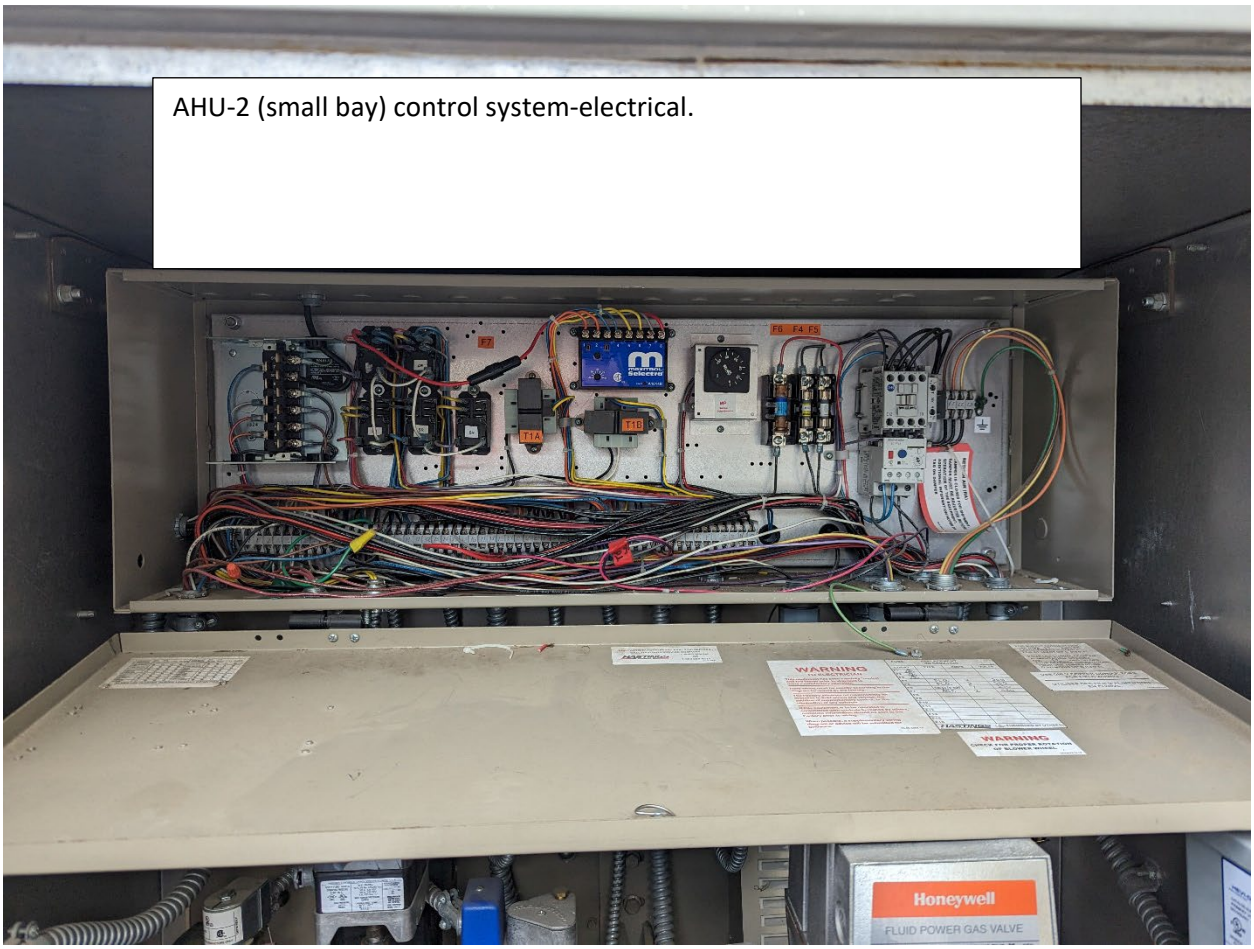

Panel H1A (next to VFDs) in mechanical room. This panel also serves as the disconnect for the VFDs.
NC56SHR
DANGER
LOCKED OUT
DO NOT OPERATE
This lock/tag may only be removed by:
Name
Date
PANEL H1A 277/480 VOLT
PANELBOARD / PANNEAU / TABLERO H1A
DANGER
PELIGRO
AVERTISSEMENT
WARNING
ADVERTENCIA

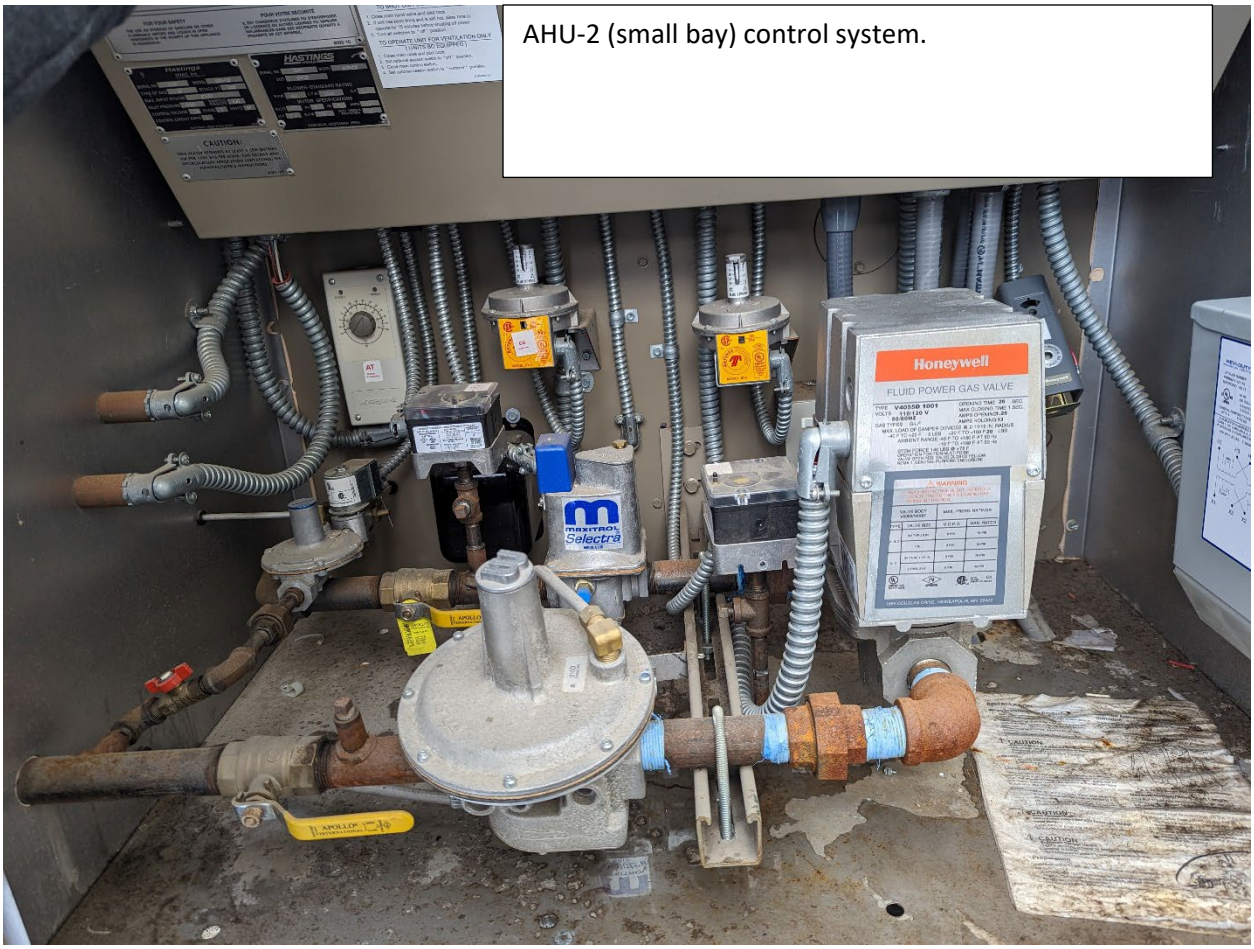

EMERSON
AFFINITY
EMERSON
AFFINITY
VFDs, disconnects are in breaker panel.

AHU-2 (small bay).

AHU-2 small bay) electric conduit, gas line, and water lines.

AHU-2 (small bay) control system-electrical.





AHU-2 (small bay) control system.


AHU-2 (small bay).

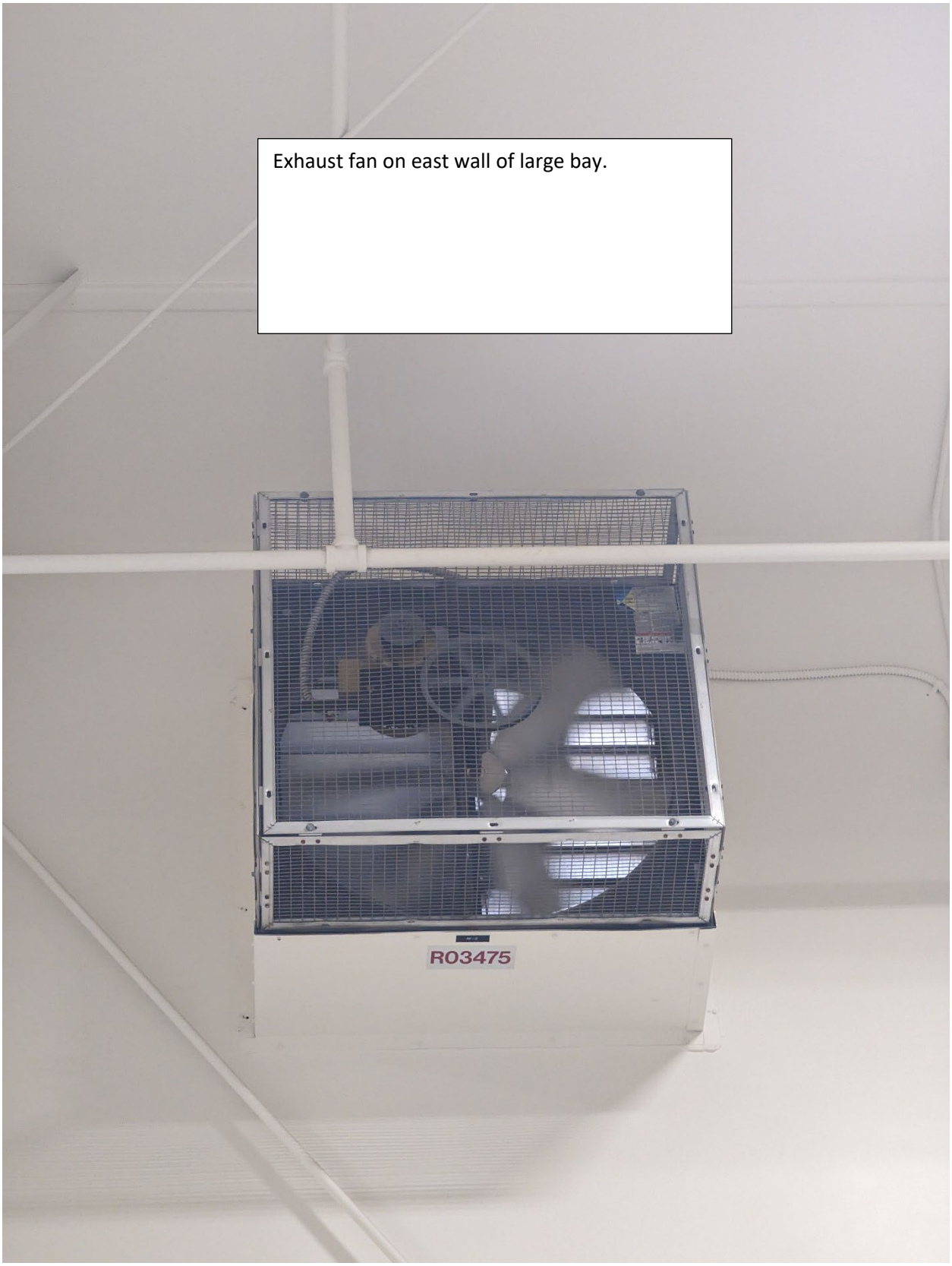

AHU-1 (large bay).
Hastings
Hastings
KUBOTA
L71680
4x4

AHU-1 (large bay) electrical conduit, gas line, and water line.


AHU-1 (large bay) control system.

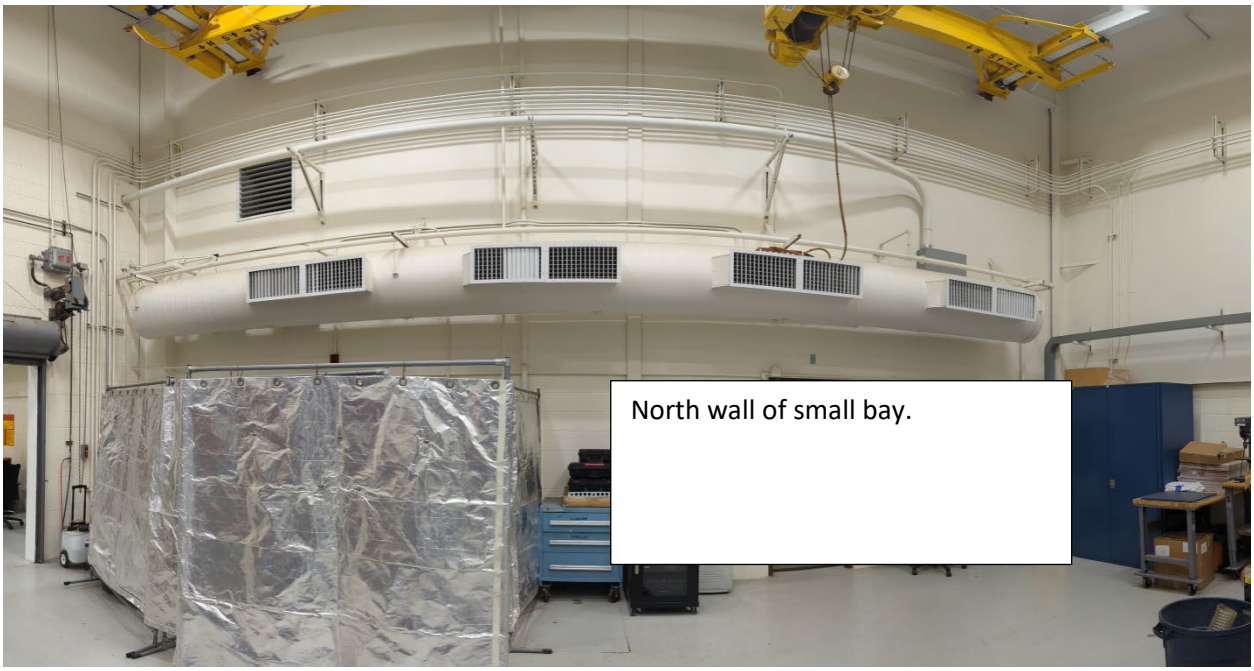

AHU-1

Exhaust fan on west wall of large bay.

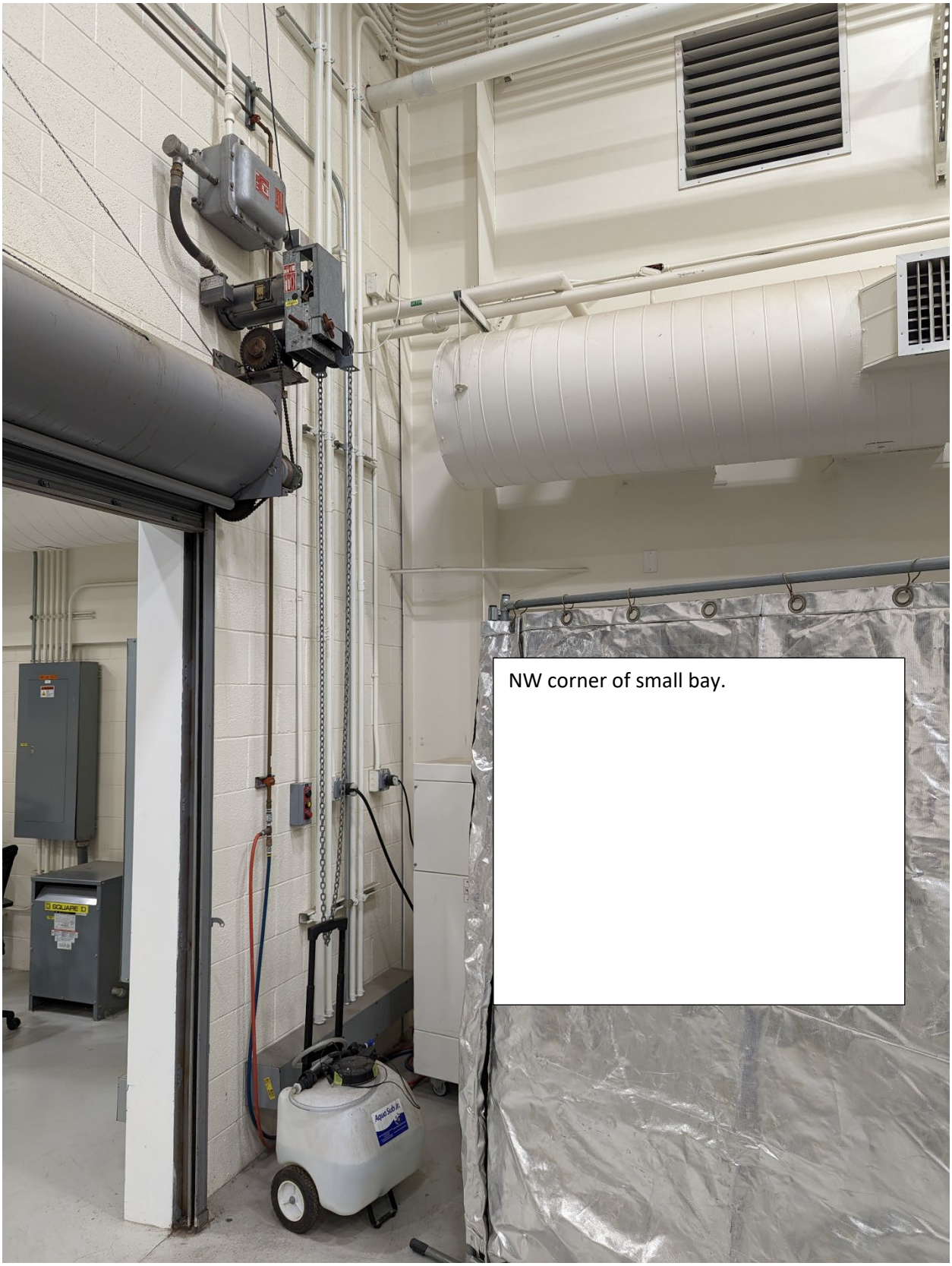


Exhaust fan on east wall of large bay.

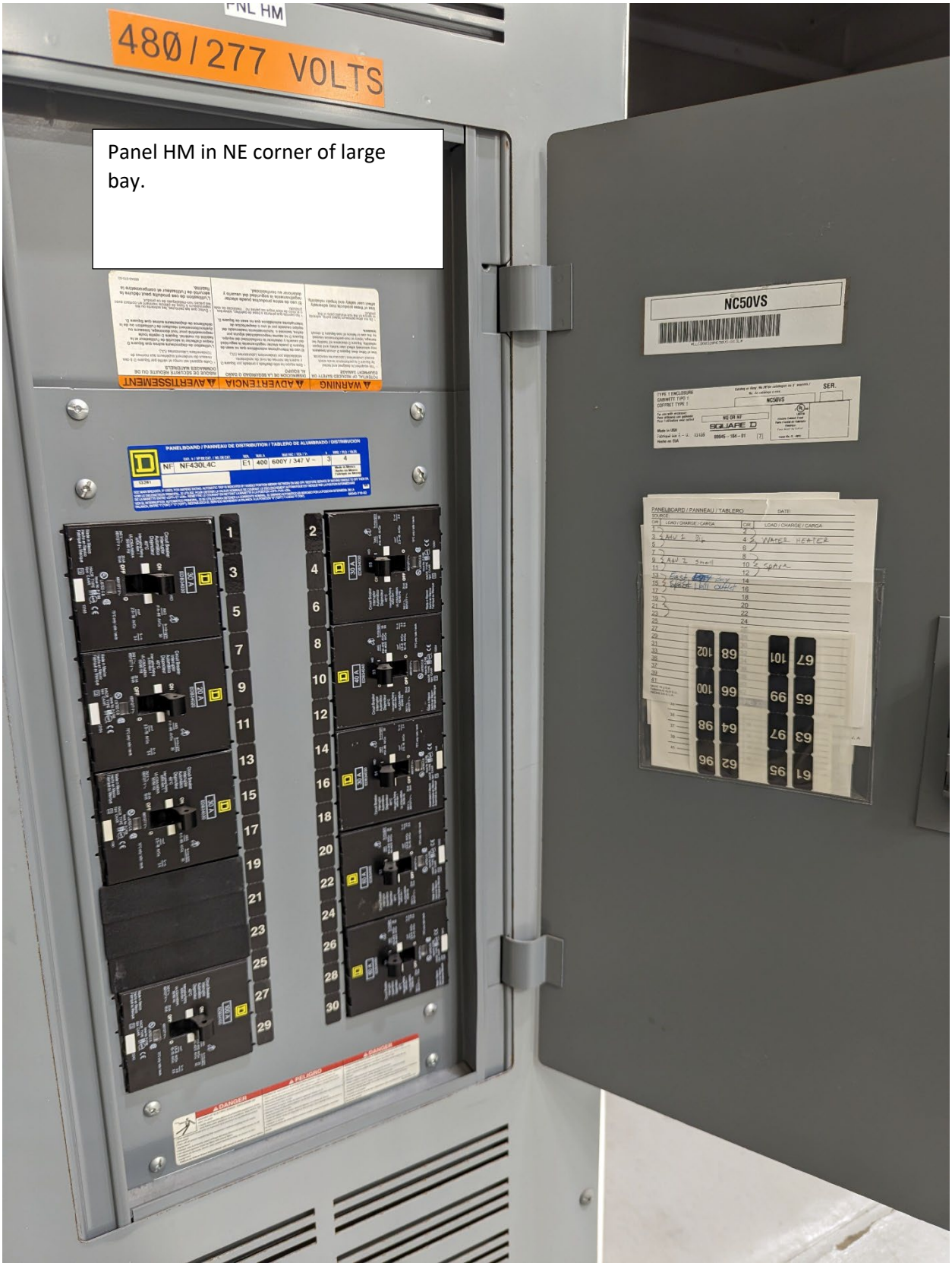

Exhaust fan on east wall of small bay.
R03470



North wall of small bay.



NW corner of small bay.



Panel HM in NE corner of large bay.


MDP in NE corner of large bay.
480/277 VOLTS
MDP
EAST CHILLER SMALL BAY
TRANSFORMER
EAST LASER SOURCE
EAST ROBOT
NORTH CHILLER
PNL HM
WEST LASER SOURCE
WEST ROBOT