

Addendum #02 for RFB #947300-01

Project Name: DAS CC Hoover Print Shop Expansion

DAS RFB #: 947300-01

DAS Project: 9473.00

Date: May 15, 2026

Addendum #02:

This addendum is issued to modify, clarify, or amend the original Project Drawings and Specifications and is hereby made part of the Contract Documents. The Contractor shall be responsible for incorporating items in this Addendum to the Work. The following shall take precedence over anything to the contrary in the Drawings or Specifications. **This addendum shall also supersede any previous addenda.**

The receipt of this Addendum shall be acknowledged by inserting its number and date in the space provided on the Bid Form.

This Addendum consists of:

General Items:

1. Addendum Pages (3 Pages)
2. Revised 00 0110 – Table of Contents (3 Pages)
3. Add 23 21 16 – HYDRONIC PIPING SPECIALTIES (4 Pages)
4. Drawings Sheets – E1.1 (1 Page)

Changes to Specifications

1. 00 0110 – Table of Contents
 - a. Section 1.017
 - i. Add Line L to read: 23 2116 Hydronic Piping Specialties
2. Section 23 21 16 – HYDRONIC PIPING SPECIALTIES
 - a. **ADD** new attached specification section.

Questions and Drawings:

1. Drawing M0.0 – MECHANICAL GENERAL NOTES & SYMBOLS
 - a. **ADD** a sentence to the end of the boxed note about temporary cooling at the bottom of the sheet that says, “TEMPORARY COOLING UNITS SHALL BE PROVIDED WITH CONDENSATE PUMPS TO EXTEND CONDENSATE TO NEARBY SINK OR FLOOR DRAINS.”
2. Drawing M1.1– FIRST FLOOR PLAN – HVAC
 - a. **ADD** a note pointing to the new CWS/CWR piping for CRAC-1 that says, “PROVIDE A LOCAL ISOLATION BALL VALVE, STRAINER AND UNION ON THE CRAC UNIT CWS LINE PIPING AND A UNION, MANUAL BALANCING VALVE AND LOCAL ISOLATION BALL VALVE ON THE CWR LINE. A 2-WAY MODULATING CHW CONTROL VALVE SHALL BE PROVIDED

- INTEGRAL TO CRAC UNIT AND IS CONTROLLED BY THE UNIT. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS. (TYP ALL CRAC UNITS.)”
- b. **ADD** a note pointing to the 1 ½” CWS/CWR piping for CRAC-6 and CRAC-5 that says, “CONTRACTOR IS RESPONSIBLE FOR ADDING ADDITIONAL CHEMICALLY TREATED WATER TO CHILLED WATER SYSTEM AS REQUIRED FOR ALL NEW CWS/CWR PIPING. COORDINATE WITH OWNER’S CHEMICAL TREATMENT REP PRIOR TO ANY REQUIRED DRAINING/REFILLING.”
 3. Drawing M3.1– MECHANICAL DETAILS AND SCHEDULES
 - a. **MODIFY** the HVAC Piping and Insulation Schedule for Chilled Water piping (3/4 – 1 ¼”) to remove Elastomeric from the allowable insulation type.
 4. Drawing PD1.1– FIRST FLOOR PLAN – DEMOLITION - PLUMBING
 - a. **ADD** a boxed note above the Production / Print Room HA66 room near the CRAC units to be demolished that says, “ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING CRAC UNITS SHALL BE PROVIDED AS ALTERNATE #1.”
 5. Drawing P1.1– FIRST FLOOR PLAN – PLUMBING
 - a. **ADD** a boxed note above the Production / Print Room HA66 near the CRAC units to be replaced that says, “ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING CRAC UNITS SHALL BE PROVIDED AS ALTERNATE #1.”
 - b. **ADD** a note pointing to the furthest west ¾” CA inserter drop that says the following, “FOR EACH C.A. DROP (INCLUDING FOR HOSE REEL) THE C.A. BRANCH SHOULD COME OFF THE TOP OF THE PIPE MAIN AND RUN TO A MANUAL SELF RELIEVING LOCKABLE BALL VALVE, FOLLOWED BY A FILTER/PRESSURE REGULATOR AND AN EXTENSION OF ¾” COPPER PIPING DOWN TO THE REQUIRED FINAL CONNECTION LOCATION FOR THE EQUIPMENT. COORDINATE FINAL LOCATION/HEIGHT/TYPE OF EQUIPMENT CONNECTION PRIOR TO INSTALLATION. (TYP.)”
 6. Drawing F1.1– FIRST FLOOR PLAN – FIRE PROTECTION
 - a. **ADD** a note pointing to the west side of Production / Print Room HA66 (near the west well) that says, “CONTRACTOR IS RESPONSILBE TO REVIEW ADDITIONAL ROOM VOLUME (APPROX. 20’ MORE WIDTH) DUE TO FLOOR PLAN REVISIONS AND DETERMINE IF ADDITIONAL CLEAN AGENT IS REQUIRED. IF REQUIRED, PROVIDE ADDITIONAL TANK NEAR THE EXISTING TANK AND MODIFY EXISTING SYSTEM AS REQUIRED TO BE FULLY FUNCTIONAL.”
 7. Drawing E1.1 – ELECTRICAL POWER:
 - a. Receptacles in print office recircuited to panel AP1.
 - b. Refer to attached full size sheet E1.1.

Electrical – Approved Manufacturers:

The following shall be added to specifications as approved manufacturers:

<u>Light Fixture Type</u>	<u>Manufacturer</u>
F1	DAY-BRITE FLUX PANEL SERIES
F2	DAY-BRITE FLUX PANEL SERIES
X3	SURE-LITE CX SERIES, MULE LIGHTING ARRIS SERIES

SECTION 00 0110

TABLE OF CONTENTS

PROCUREMENT AND CONTRACTING REQUIREMENTS

1.01 DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

A.	00 0101	Project Title Page
B.	00 0107	Seals Page
C.	00 0110	Table of Contents
D.	00 0115	List of Drawing Sheets
E.	00 0116	Bid Submittal Checklist
F.	00 1113	Notice to Bidders
G.	00 2113	Instructions to Bidders
H.	00 2113.01	IMPACS Electronic Procurement System Instructions
I.	00 2113.02	Sample Contractor Certificate of Insurance
J.	00 3113	Preliminary Schedule
K.	00 3126	Existing Hazardous Material Information
L.	00 3143	Permit Application
M.	00 4116	Bid Form
N.	00 4116.01	Non-Discrimination Clause Information
O.	00 4116.02	Targeted Small Business Information
P.	00 4313	Bid Security Forms
Q.	00 5200	Agreement Form
R.	00 6000	Payment Bond and Performance Bond Forms

SPECIFICATIONS

1.02 DIVISION 01 – GENERAL REQUIREMENTS

A.	01 1200	Contract Summary
B.	01 1201	General Work Requirements
C.	01 1202	Special Work Requirements
D.	01 2500	Substitution Procedures
E.	01 2600	Contract Modification Procedures
F.	01 2900	Payment Procedures
G.	01 3100	Project Management and Coordination
H.	01 3100.01	Web Based Construction Management
I.	01 3200	Construction Progress Documentation
J.	01 3300	Submittal Procedures
K.	01 4000	Quality Requirements
L.	01 5000	Temporary Facilities and Controls
M.	01 6000	Product Requirements
N.	01 7300	Execution
O.	01 7700	Closeout Procedures

1.03 DIVISION 02 – EXISTING CONDITIONS

A.	02 4100	Demolition
----	---------	------------

~~1.04 DIVISION 03 – CONCRETE~~

A.	03 3511	Concrete Floor Finishes
---------------	--------------------	------------------------------------

1.05 DIVISION 04 – DIVISIONS 03 THRU 05 (NOT USED)

~~1.06 DIVISION 05 – METALS~~

~~A. 05 5000 Metal Fabrication~~

1.07 DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

- A. 06 1000 Rough Carpentry
- B. 06 4100 Architectural Wood Casework
- C. 06 8316 Fiberglass Reinforced Paneling

1.08 DIVISION 07 – THERMAL AND MOISTURE PROTECTION

- A. 07 9200 Joint Sealants

1.09 DIVISION 08 – OPENINGS

- A. 08 1113 Hollow Metal Doors and Frames
- B. 08 1416 Flush Wood Doors
- C. 08 7100 Door Hardware
- D. 08 8000 Glazing

1.010 DIVISION 09 – FINISHES

- A. 09 2116 Gypsum Board Assemblies
- B. 09 5100 Acoustical Ceilings
- C. 09 6700 Fluid-Applied Flooring
- D. 09 6813 Tile Carpeting
- E. 09 9123 Interior Painting

1.011 DIVISION 10 – SPECIALTIES

- A. 10 2600 Wall and Door Protection
- B. 10 4400 Fire Protection Specialties

1.012 DIVISION 11 – EQUIPMENT (NOT USED)

1.013 DIVISION 12 – FURNISHINGS

- A. 12 3600 Countertops

1.014 DIVISION 13 THRU 20 (NOT USED)

1.015 DIVISION 21 – FIRE SUPPRESSION

- A. 21 0517 Sleeves and Sleeve Seals for Fire-Suppression Plumbing Piping
- B. 21 0518 Escutcheons for Fire-Suppression Piping
- C. 21 0553 Identification for Fire Suppression Piping and Equipment
- D. 21 1313 Wet-Pipe Sprinkler Systems
- E. 21 2200 Clean-Agent Fire-Extinguishing Systems

1.016 DIVISION 22 – PLUMBING

- A. 22 0517 Sleeves and Sleeve Seals for Plumbing Piping
- B. 22 0518 Escutcheons for Plumbing Piping
- C. 22 0523 Valves for Plumbing Piping
- D. 22 0529 Hangars and Supports for Plumbing Piping and Equipment
- E. 22 0553 Identification for Plumbing Piping and Equipment
- F. 22 0719 Plumbing Piping Insulation
- G. 22 1116 Domestic Water Piping
- H. 22 1513 General-Service Compressed-Air Piping

1.017 DIVISION 23 – HEATING, VENTILATION, AND AIR_CONDITIONING (HVAC)

- A. 23 0513 Common Motor Requirements for HVAC Equipment
- B. 23 0553 Identification for HVAC Piping and Equipment
- C. 23 0593 Testing, Adjusting, and Balancing for HVAC
- D. 23 0713 Duct Insulation
- E. 23 3113 Metal Ducts
- F. 23 3300 Air Duct Accessories
- G. 23 3346 Flexible Ducts
- H. 23 3713 Air Outlets and Inlets
- I. 23 8123 Small Capacity Computer-Room Air-Conditioners
- J. 23 0719 HVAC Piping Insulation
- K. 23 2113 Hydronic Piping
- L. 23 2116 Hydronic Piping Specialties

1.018 DIVISION 24 THRU 25 (NOT USED)

1.019 DIVISION 26 – ELECTRICAL

- A. 26 0500 Common Work Results for Electrical
- B. 26 0519 Low-Voltage Electrical Power Conductors and Cables
- C. 26 0526 Grounding and Bonding for Electrical Systems
- D. 26 0529 Hangers and Supports for Electrical Systems
- E. 26 0533.13 Conduit for Electrical Systems
- F. 26 0533.16 Boxes for Electrical Systems
- G. 26 0553 Identification for Electrical Systems
- H. 26 0923 Lighting Control Devices
- I. 26 2416 Panelboards
- J. 26 2726 Wiring Devices
- K. 26 2813 Fuses
- L. 26 2816.16 Enclosed Switches
- M. 26 5100 Interior Lighting

1.020 DIVISION 27 – COMMUNICATIONS

- A. 27 0000 General Requirements for Communications Systems
- B. 27 0528 Pathways for Communications Systems
- C. 27 0544 Sleeves and Sleeve Seals for Communications Pathways and Cabling

1.021 DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

- A. 280000 General Requirements for Electronic Safety & Security Systems
- B. 284600 Digital, Addressable Fire Alarm System

END OF SECTION

SECTION 23 21 16 - HYDRONIC PIPING SPECIALTIES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes special-duty valves and specialties for the following:
 - 1. Hydronic specialty valves.
 - 2. Air-control devices.
 - 3. Strainers.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of the following:
 - 1. Valves: Include flow and pressure drop curves based on manufacturer's testing for calibrated-orifice balancing valves and automatic flow-control valves.
 - 2. Air-control devices.
 - 3. Hydronic specialties.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For air-control devices, hydronic specialties, and special-duty valves to include in emergency, operation, and maintenance manuals.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

2.2 VALVES

- A. Bronze, Calibrated-Orifice, Balancing Valves:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Armstrong Pumps, Inc.
 - b. Bell & Gossett Domestic Pump.
 - c. Flow Design Inc.
 - d. Gerand Engineering Co.
 - e. Griswold Controls.
 - f. Nexus Valve, Inc.
 - g. Taco.
 - h. Tour & Andersson; available through Victaulic Company.
 - 2. Body: Bronze, ball or plug type with calibrated orifice or venturi.
 - 3. Ball: Brass or stainless steel.
 - 4. Plug: Resin.
 - 5. Seat: PTFE.
 - 6. End Connections: Threaded or socket.
 - 7. Pressure Gage Connections: Integral seals for portable differential pressure meter.
 - 8. Handle Style: Lever, with memory stop to retain set position.
 - 9. CWP Rating: Minimum 125 psig (860 kPa).
 - 10. Maximum Operating Temperature: 250 deg F (121 deg C).

2.3 AIR-CONTROL DEVICES

A. Manual Air Vents:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. AMTROL, Inc.
 - b. Armstrong Pumps, Inc.
 - c. Bell & Gossett Domestic Pump.
 - d. Nexus Valve, Inc.
 - e. Taco, Inc.
 - 1) Body: Bronze.
 - 2) Internal Parts: Nonferrous.
 - 3) Operator: Screwdriver or thumbscrew.
 - 4) Inlet Connection: NPS 1/2 (DN 15).
 - 5) Discharge Connection: NPS 1/8 (DN 6).
 - 6) CWP Rating: 150 psig (1035 kPa).
 - 7) Maximum Operating Temperature: 225 deg F (107 deg C).

B. Automatic Air Vents:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. AMTROL, Inc.
 - b. Armstrong Pumps, Inc.
 - c. Bell & Gossett Domestic Pump.
 - d. Nexus Valve, Inc.
 - e. Taco, Inc.
 - 1) Body: Bronze or cast iron.
 - 2) Internal Parts: Nonferrous.
 - 3) Operator: Noncorrosive metal float.
 - 4) Inlet Connection: NPS 1/2 (DN 15).
 - 5) Discharge Connection: NPS 1/4 (DN 8).
 - 6) CWP Rating: 150 psig (1035 kPa).
 - 7) Maximum Operating Temperature: 240 deg F (116 deg C).

2.4 HYDRONIC PIPING SPECIALTIES

A. Y-Pattern Strainers:

1. Body: ASTM A 126, Class B, cast iron with bolted cover and bottom drain connection.
2. End Connections: Threaded ends for NPS 2 (DN 50) and smaller; flanged ends for NPS 2-1/2 (DN 65) and larger.
3. Strainer Screen: Stainless-steel, 20-mesh strainer, or perforated stainless-steel basket.
4. CWP Rating: 125 psig (860 kPa).

PART 3 EXECUTION

3.1 VALVE APPLICATIONS

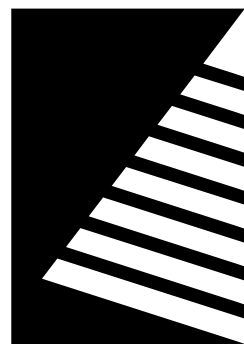
- A. Install shutoff-duty valves at each branch connection to supply mains and at supply connection to each piece of equipment.
- B. Install calibrated-orifice, balancing valves in the return pipe of each heating or cooling terminal.

3.2 HYDRONIC SPECIALTIES INSTALLATION

- A. Install manual air vents at high points in piping, at heat-transfer coils, and elsewhere as required for system air venting.
- B. Install automatic air vents at high points of system piping in mechanical equipment rooms only. Install manual vents at heat-transfer coils and elsewhere as required for air venting.

END OF SECTION 232116

This page intentionally left blank



Farnsworth GROUP

14225 UNIVERSITY AVENUE, SUITE 110
WAUKEE, IOWA 50263
(515) 225-3469 / info@f-w.com

www.f-w.com
Engineers | Architects | Surveyors | Scientists

ISSUE:	
#	DATE: DESCRIPTION:
2	5/15/2026 Addendum 2

100% CD SET

PROJECT:
State of Iowa

DAS Hoover Print Shop Expansion

DAS Project #9473.00

Hoover Building
1305 East Walnut Street
Des Moines, IA 50319

DATE: 04/17/2026

DESIGNED: EDH

DRAWN: BCS

REVIEWED: EDH

SHEET TITLE:

ELECTRICAL POWER

SHEET NUMBER:

E1.1

PROJECT NO.: 02500979.001

POWER GENERAL NOTES

- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.
- C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.
- D. COORDINATE NEW TOMBSTONE AND FLOOR EQUIPMENT CONNECTIONS WITH EXISTING WALKER-DUCT FLOOR SYSTEM.
- E. PLAN ABBREVIATIONS:
E - EXISTING ITEM TO REMAIN
ER - NEW LOCATION OF EXISTING ITEM
N - NEW ITEM IN EXISTING LOCATION
R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
RN - REPLACE EXISTING WITH NEW
RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

KEYNOTES

1. INSTALL NEW 30A/3P BREAKERS IN PANEL AP5 FOR EACH NEW CRAC UNIT.
2. INSTALL NEW 30A/3P BREAKER IN SPACES 24, 26, AND 28 OF PANEL CL1 FOR AIR COMPRESSOR IN SPACE. EXISTING PANEL IS SQUARE D NF PANEL. BREAKER SHALL ACT AS DISCONNECTING MEANS FOR UNIT.
3. RE-USE EXISTING TOMBSTONE CASE. REPLACE EXISTING FEMALE CONNECTION WITH NEW DEVICE. INSTALL ON WALKERDUCT SYSTEM CONFIRM PERMANENT LOCATION IN THE FIELD.
4. CRAC UNITS 1-4 ARE TO REMAIN INTACT FOR BASE BID. ALTERNATE #1: DISCONNECT EXISTING CRAC UNITS 1-4. EXTEND EXISTING CIRCUIT AS NECESSARY FOR CONNECTION TO NEW UNITS.
5. INSTALL 20A 1P BREAKER IN PANEL CP1 FOR NEW AIR DRYER. CIRCUIT BREAKER TO ACT AS DISCONNECTING MEANS FOR UNIT.
6. INSTALL (3) 20A 1P BREAKER IN EXISTING SQUARE D NO PANEL AP1 FOR DEDICATED FURNITURE RECEPTACLES.

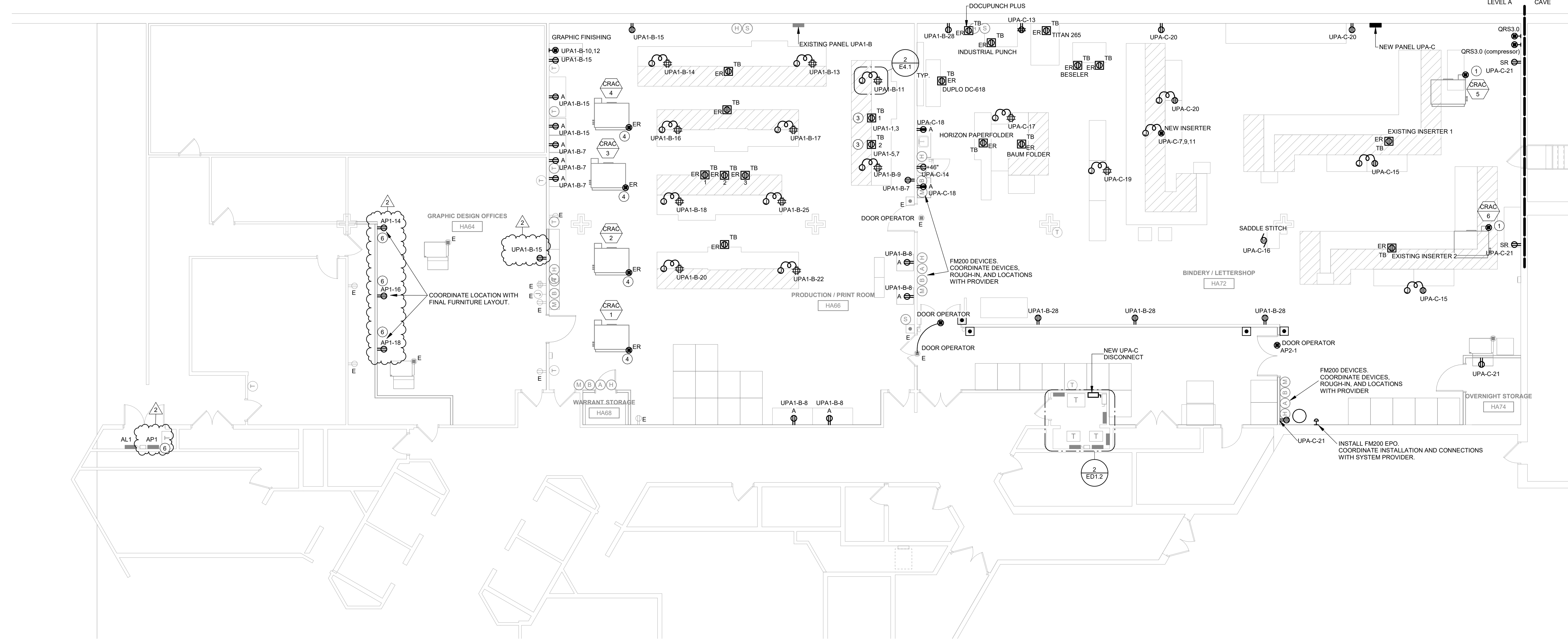
GENERAL INTENT FOR EQUIPMENT CONNECTIONS:

EXISTING SURFACE MOUNTED TOMBSTONE BOXES WITH SPECIAL EQUIPMENT CONNECTIONS TO BE REMOVED, EXTENDED, AND REINSTALLED THROUGH EXISTING WALKERDUCT SYSTEM TO FLOOR SURFACE AFTER NEW FLOORING HAS BEEN PREPARED.

ALL EXISTING 120V SURFACE MOUNTED TOMBSTONE BOXES SHALL BE REMOVED. ALL NEW 120V CONNECTION WILL BE SUPPLIED OVERHEAD.

2 ENLARGED ELECTRICAL ROOM NEW
1/4" = 1'-0"

3 CAVE
1/8" = 1'-0"



1 FIRST FLOOR PLAN - POWER
1/8" = 1'-0"

KCL
ENGINEERING



END OF ADDENDUM #02