

ADDENDUM NO. 1

Issued: 10.20.2023

Project: Liberty Distribution Center
1142 Southview Dr.

Project No. 23021

Owner: Liberty Public Schools
8 Victory Lane
Liberty, Missouri 641068

Bidding Documents Issued: 10.10.2023.

This Addendum includes these 2 pages and the following attachments:

Project Manual:

Reissued Section 000105 "Certifications Page" consisting of 2 pages.
Reissued Section 000110 "Table of Contents" consisting of 4 pages.
Refer to MKEC, Civil Addendum No. 1
Refer to Smith & Boucher, MEP Addendum No. 1
Refer to Fellers, Food Service Addendum No. 1

Drawings:

Revised Architectural Sheets: G001, G100, G101, A101, A604, A701
Refer to MKEC, Civil Addendum No. 1
Refer to Smith & Boucher, MEP Addendum No. 1
Refer to Fellers, Food Service Addendum No. 1

PROJECT MANUAL REVISIONS

A1 SECTION 000005 – CERTIFICATIONS PAGE

A1.1 REPLACE existing Section 000005 "Certifications Page" with the attached revised Section 000005 "Certifications Page", dated October 20, 2023.

A2 SECTION 000101 – PROJECT TEAM DIRECTORY

A2.1 DELETE project street address "1138 Southview Drive" in Subparagraph 1.2. A.2 and REPLACE with project street address "1142 Southview Drive."

A3 SECTION 000110 - TABLE OF CONTENTS

A3.1 REPLACE existing Section 000110 "Table of Contents" with the attached revised Section 000110 "Table of Contents", dated October 20, 2023.

A4 SECTION 011000 – SUMMARY

A4.1 DELETE project street address "1138 Southview Drive" in Subparagraph 1.2. A.1 and REPLACE with project street address "1142 Southview Drive."

A5 SECTION 012500.01 – SUBSTITUTION PROCEDURES FORM

A5.1 DELETE project street address "1138 Southview Drive" and REPLACE with project street address "1142 Southview Drive."



- C1 REFERENCE ATTACHED CIVIL ADDENDUM NO. 1
- E1 REFERENCE ATTACHED MEP ADDENDUM NO. 1
- F1 REFERENCE ATTACHED FOOD SERVICE ADDENDUM NO. 1

DRAWINGS REVISIONS

A6 SHEET G001 – GENERAL PROJECT INFORMATION

- A6.1 REVISED Description of the Fire Safety Features paragraph.

A7

A8 SHEET G101 – CODE FLOOR PLAN – LEVEL 1 BLDG 1

- A8.1 REVISED Code Plan Indicating the location of fire access doors.

A9 SHEET A101 – FLOOR PLAN – LEVEL 1 – OVERALL

- A9.1 REVISED drawing A1 floor plan to show added door to the freezer. Reference Fellers, Food Service Addendum No. 1

A10 SHEET A604 – RACKING + SPECIALTY EQUIPMENT COORDINATION PLAN

- A10.1 REVISED drawing A1 racking plan to show added door to freezer.
- A10.2 REVISED drawing A1 racking plan to show 2 narrower storage racks adjacent to the added door.
- A10.3 REVISED dimensions on drawing A1 racking plan due to narrower racks.

A11 SHEET A701 - SIGNAGE & ENVIRONMENTAL GRAPHICS FLOOR PLAN - OVERALL - LEVEL 1

- A11.1 REVISED drawing A1 to show correct Fire Access Door signage location.

C2 REFERENCE ATTACHED CIVIL ADDENDUM NO. 1

E2 REFERENCE ATTACHED MEP ADDENDUM NO. 1

END OF ADDENDUM NO. 1



LIBERTY DISTRIBUTION CENTER

ADDENDUM 01

October 20, 2023

The following are a summary of addendum items:

- C109:
 - Added perimeter fence and gates to plan, providing notes with fence information.
- C110:
 - Added perimeter fence and gates to plan, providing notes with fence information.
- C112:
 - Added additional grading area to plan.
- C114:
 - Added additional grading area to plan. Revised silt fence extents.
- C116:
 - Added storm sewer calculation table per City comment.
- C203:
 - Revised chain link fence w/ gate detail per updated fencing heights and information.

Specifications:

323113 Chain Link Fencing and Gates

- Updated notes in section 2.1.A.1 to remove language about the fencing to surround the perimeter of the track.
- Updated the height of the fence to be 6' or 8' high.

**Liberty Public Schools Distribution Center
Smith & Boucher Project No. 2314705**

10.20.2023

To Documents Titled:

Liberty Public Schools Distribution Center
08.31.2023

Architect-of-Record:

Hollis & Miller
1828 Walnut Street Suite 922
Kansas City, MO 64108

The Contract Documents for the above referenced project and the Work covered thereby are modified as described herein.

DRAWINGS

1. Sheet ME201 – Site Plan – Mechanical and Electrical
 - a. ADD (2) power connections for motorized gates. See plan for locations.
 - b. ADD plan notes 19, 20, and 21.
 - c. ADD light fixture 'G1' and associated lighting control devices to existing building south canopy.
 - d. ADD Fire Department Connection (FDC) and respective specification.
2. Sheet E101 – Overall Lighting Plan – Level 1
 - a. ADD (1) wall mounted exit sign above exterior door in Flex/Charging A123 space.
3. Sheet E102 – Overall Lighting Plan – Mezz Level
 - a. ADD (1) 'G1' type light fixture to the underside of loading dock canopy. See plan for location.
4. Sheet E304 – Electrical Schedules and Detail
 - a. REVISE Panel 'EP' schedule. See sheet for all revisions.

SPECIFICATIONS

1. 270000 DISTRICT COMMUNICATIONS SPECIFICATIONS
 - a. REVISE entire section.

Attachments

- Sheets listed above.

END OF MEP ITEMS FOR ADDENDUM #1



Fellers Food Service Equipment and Design
2140 West Grand Springfield, Missouri 65802
Ph:(417)862-0812 Fax:(417)862-8990

Date 10-20-2023

Architect Hollis + Miller Architects

Project: LPS Distribution Center

Addendum # 1

General: Specifications have been modified. This addendum shall be part of the bid documents and modifies the original bidding documents.

1. Update walk-in cooler/freezer specification as shown below.

Item #1 COOLER/FREEZER WAREHOUSE: One (1) Required

- A. Kolpak cooler/freezer combo measuring 73'-6" x 38'-1" x 25'-0"
 1. Furnish 2-piece, foamed in place urethane wall system per Kolpak engineering drawings, 4" thick prefinished white on both sides.
 2. Cooler/freezer to have suspended ceiling, prefinished white on the inside of the box. Kolpak to furnish hanger brackets, installed with a maximum spacing of 48" between brackets.
 3. Cooler and freezer compartments to have flat bottom wall panels
 4. Furnish with (3) 34" Performer series walk doors as shown on the plan. Each to have a 14" x 14" heated viewport window. Doors to have half height diamond treadplate on both sides.
 5. Furnish buck openings for high speed coiling doors as specified. Kolpak to furnish wall backing to anchor doors and electrical boxes as detailed in the drawings.
 6. Furnish with (28) 48" LED light fixtures and Kason #1901A High Motion light sensors as shown, KEC to mount light fixtures, EC to wire.
 7. Furnish with 48"h diamond treadplate wall protection as shown on the plan.
 8. Furnish unit with ColdZone Refrigeration package per engineering drawings shown in addendum 1. The refrigeration system should consist of the following:
 - (4) #CFDS10L4SE, 10.0 hp low temp condensing units, 448A
 - (4) #CH6E044EDA low temp evaporator coils
 - (2) #CFDS06M4SE 6.0 hp medium temp condensing units, 448a
 - (2) #CMSA549ADA medium temp evaporator coilsKEC to furnish roof curbs and pipe, charge, and fire the refrigeration systems.
 9. KEC to heat tape and insulate all condensate drain lines and extend to floor sinks as

shown.

10. Authorized installer and service agency for the walk-in cooler/freezer shall be Commercial Services, Inc. (CSI) in Kansas City. CSI shall be responsible for erecting the box, setting the refrigeration systems on the roof as shown, extension of condensate drain lines (including insulation and heat tape), piping, charging, and starting the refrigeration systems included in this package. Installation to also include the overhead doors as shown below. CSI will include as part of the pricing a 1-year preventative maintenance program with a minimum of one visit per month to inspect the refrigeration systems, clean coils, and make necessary adjustments as needed.

2. Updated sheets K100, K200, K300, K500, and K500.1 to reflect additional walk door and updated refrigeration system.

SECTION 000105 - CERTIFICATIONS PAGE

ARCHITECT

I HEREBY, PURSUANT TO RSMO 327.411, STATE THAT THE SPECIFICATIONS INTENDED TO BE AUTHENTICATED BY MY SEAL ARE LIMITED TO SPECIFICATIONS LISTED BELOW:

DIVISION 1 SECTIONS:	011000 , 012100, 012200, 012300, 012500, 012500.01 , 013100, 013200, 013233, 013300, 014000, 014200, 014529, 016000, 017419, 017700, 017823, 017839, 017900.
DIVISION 4 SECTION:	042000.
DIVISION 5 SECTIONS:	055000, 055100, 055213.
DIVISION 6 SECTIONS:	061000, 061600, 062013.
DIVISION 7 SECTIONS:	071113, 071326, 071900, 072100, 072500, 074213, 074219, 075423, 076200, 077200, 078413, 078413, 078446, 079200.
DIVISION 8 SECTIONS:	081113, 081416, 083323, 083613, 083800, 084113, 087100, 088000, 088300.
DIVISION 9 SECTIONS:	092116, 092900, 093000, 095113, 096513, 096519, 096813, 098433, 099113, 099123, 099600.
DIVISION 10 SECTIONS:	101400, 101423, 102113, 102310, 102600, 102800, 104300, 104413, 104416, 105629.
DIVISION 11 SECTION:	111300.
DIVISION 12 SECTIONS:	122113, 122413, 123200, 123666, 129300.
DIVISION 32 SECTION:	323119.

I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER SPECIFICATIONS, DRAWINGS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT OR SURVEY.

KEVIN NELSON

OCTOBER 20, 2023

ARCHITECT

DATE



OCTOBER 20, 2023

DOCUMENT 000110 – TABLE OF CONTENTS

Project Name: Liberty SD Distribution Center
 Project No.: 23021
 Site Address **1142 Southview Dr**
 City, State Zip Liberty, Missouri 64068

Revisions	Date
Addendum 01	10.20.2023

	Latest Revision	Original Issue
INTRODUCTORY INFORMATION		
000101 Project Team Directory	10.20.2023	10.10.2023
000105 Certifications and Seals	10.20.2023	10.10.2023
000110 Table of Contents	10.20.2023	10.10.2023
BIDDING REQUIREMENTS		
(Refer to Construction Manager's Front End Manual for additional Bidding Requirements)		
BIDDING REQUIREMENTS		
003132 Geotechnical Data		10.10.2023
CONTRACTING REQUIREMENTS		
(Refer to Construction Manager's Front End Manual for additional Contracting Requirements)		
DIVISION 1 – GENERAL REQUIREMENTS		
011000 Summary	10.20.2023	10.10.2023
012100 Allowances		10.10.2023
012200 Unit Prices		10.10.2023
012300 Alternates		10.10.2023
012500 Substitution Procedures		10.10.2023
012500.o1 Substitution Procedures Form	10.20.2023	10.10.2023
013100 Project Management and Coordination		10.10.2023
013200 Construction Progress Documentation		10.10.2023
013233 Photographic Documentation		10.10.2023
013300 Submittal Procedures		10.10.2023
014000 Quality Requirements		10.10.2023
014200 References		10.10.2023
014529 Testing and Inspections		10.10.2023
016000 Product Requirements		10.10.2023
017419 Construction Waste Management & Disposal		10.10.2023
017700 Closeout Procedures		10.10.2023
017823 Operation and Maintenance Data		10.10.2023
017839 Project Record Documents		10.10.2023
017900 Demonstration and Training		10.10.2023
DIVISION 3 – CONCRETE		
033000 Cast-in-Place Concrete		10.10.2023
DIVISION 4 - MASONRY		
042000 Unit Masonry		10.10.2023
DIVISION 5 - METALS		
051200 Structural Metal Framing		10.10.2023
052100 Steel Joist Framing		10.10.2023
053100 Steel Decking		10.10.2023
054000 Cold-Formed Metal Framing		10.10.2023
055000 Metal Fabrications		10.10.2023
055100 Metal Stairs		10.10.2023
055213 Pipe and Tube Railings		10.10.2023

DIVISION 6 – WOOD AND PLASTICS

061000	Rough Carpentry	10.10.2023
061600	Sheathing	10.10.2023
062013	Exterior Finish Carpentry	10.10.2023

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

071113	Bituminous Dampproofing	10.10.2023
071326	Self-Adhering Sheet Waterproofing	10.10.2023
071900	Water Repellents and Sealers	10.10.2023
072100	Thermal Insulation	10.10.2023
072500	Weather Barriers	10.10.2023
074213	Formed Metal Wall and Soffit Panels	10.10.2023
074219	Insulated Metal Wall Panels	10.10.2023
075423	Thermoplastic Polyolefin (TPO) Roofing	10.10.2023
076200	Sheet Metal Flashing and Trim	10.10.2023
077200	Roof Accessories	10.10.2023
078413	Penetration Firestopping	10.10.2023
078446	Fire Resistive Joint Systems	10.10.2023
079200	Joint Sealants	10.10.2023

DIVISION 8 - DOORS AND WINDOWS

081113	Hollow Metal Doors and Frames	10.10.2023
081416	Flush Wood Doors	10.10.2023
083323	Overhead Coiling Doors	10.10.2023
083613	Sectional Doors	10.10.2023
083800	Traffic Doors	10.10.2023
084113	Aluminum Framed Entrances and Storefronts	10.10.2023
087100	Door Hardware	10.10.2023
088000	Glazing	10.10.2023
088300	Mirrors	10.10.2023

DIVISION 9 - FINISHES

092116	Non-Structural Metal Framing	10.10.2023
092900	Gypsum Board	10.10.2023
093000	Tiling	10.10.2023
095113	Acoustical Panel Ceilings	10.10.2023
096513	Resilient Base and Accessories	10.10.2023
096519	Resilient Tile Flooring	10.10.2023
096813	Tile Carpeting	10.10.2023
098433	Acoustical Wall Units	10.10.2023
099113	Exterior Painting	10.10.2023
099123	Interior Painting	10.10.2023
099600	High-Performance Coatings	10.10.2023

DIVISION 10 – SPECIALTIES

101400	Signage	10.10.2023
101423	ADA and Code Signage	10.10.2023
102113	Toilet Compartments	10.10.2023
102310	Glazed Interior Wall and Door Assemblies	10.10.2023
102600	Wall and Door Protection	10.10.2023
102800	Toilet, Bath & Laundry Accessories	10.10.2023
104300	Emergency Aid Specialties	10.10.2023
104413	Fire Extinguisher Cabinets	10.10.2023
104416	Fire Extinguishers	10.10.2023
105629	Pallet Storage Racks	10.10.2023

DIVISION 11 - EQUIPMENT

111300	Loading Dock Equipment		10.10.2023
114000	Food Service Equipment	10.20.2023	10.10.2023

DIVISION 12 - FURNISHINGS

122113	Horizontal Louver Blinds		10.10.2023
122413	Roller Window Shades		10.10.2023
123200	Manufactured Wood Casework		10.10.2023
123666	Solid Surfacing Countertops		10.10.2023
129300	Site Furnishings		10.10.2023

DIVISION 21 – FIRE SUPPRESSION

210500	Common Work Results for Fire Suppression		10.10.2023
211313	Wet-Pipe Sprinkler Systems		10.10.2023

DIVISION 22 - PLUMBING

220500	Common Work Results for Plumbing		10.10.2023
220513	Common Motor Requirements for Plumbing Equipment		10.10.2023
220516	Expansion Fittings and Loops for Plumbing Piping		10.10.2023
220517	Sleeves and Sleeve Seals for Plumbing Piping		10.10.2023
220518	Escutcheons for Plumbing Piping		10.10.2023
220519	Meters and Gauges for Plumbing Piping		10.10.2023
220523	General Duty Valves for Plumbing Piping		10.10.2023
220529	Hangers and Supports for Plumbing Piping and Equipment		10.10.2023
220553	Identification for Plumbing Piping and Equipment		10.10.2023
220719	Plumbing Piping Insulation		10.10.2023
221116	Domestic Water Piping		10.10.2023
221119	Domestic Water Piping Specialties		10.10.2023
221316	Sanitary Waste and Vent Piping		10.10.2023
221319	Sanitary Waste Piping Specialties		10.10.2023
223400	Fuel- Fired, Domestic Water Heaters		10.10.2023
224000	Plumbing Fixtures		10.10.2023
224700	Drinking Fountains/Water Coolers		10.10.2023

DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING

230500	Common Work Results for HVAC		10.10.2023
230513	Common Motor Requirements for HVAC Equipment		10.10.2023
230548	Vibration Controls for HVAC		10.10.2023
230553	HVAC System Identification		10.10.2023
230593	Testing, Adjusting, and Balancing		10.10.2023
230713	Duct Insulation		10.10.2023
230719	HVAC Piping Insulation		10.10.2023
230900	Instrumentation and Control for HVAC		10.10.2023
231123	Facility Natural-Gas Piping		10.10.2023
232300	Refrigerant Piping		10.10.2023
233113	Metal Ducts		10.10.2023
233116	Nonmetal Ducts		10.10.2023
233300	Duct Accessories		10.10.2023
233416	Centrifugal HVAC Fans		10.10.2023
233423.01	HVAC Dust Collector		10.10.2023
233600	Air Terminal Units		10.10.2023
233713	Diffusers, Registers, and Grilles		10.10.2023
237416.11	Packaged, Small-Capacity, Rooftop Air-Conditioning Units		10.10.2023
237416.13	Packaged, Large-Capacity, Rooftop Air-Conditioning Units		10.10.2023
238126	Split-System Air-Conditioners		10.10.2023
238239.13	Cabinet Unit Heaters		10.10.2023

DIVISION 26 - ELECTRICAL

260500	Common Work Results for Electrical		10.10.2023
260519	Low-Voltage Electrical Power Conductors and Cables		10.10.2023
260523	Control-Voltage Electrical Power Cables		10.10.2023
260526	Grounding and Bonding for Electrical Systems		10.10.2023
260529	Hangers and Supports for Electrical Systems		10.10.2023
260533	Raceway and Boxes for Electrical Systems		10.10.2023
260553	Identification for Electrical Systems		10.10.2023
260923	Lighting Control Devices		10.10.2023
260943	Relay-Based Lighting Controls		10.10.2023
262200	Transformers		10.10.2023
262416	Panelboards		10.10.2023
262726	Wiring Devices		10.10.2023
262813	Fuses		10.10.2023
262816	Enclosed Switches and Circuit Breakers		10.10.2023
263213	Engine Generators		10.10.2023
263600	Transfer Switches		10.10.2023
264113	Lightning Protection for Structures		10.10.2023
265119	LED Interior Lighting		10.10.2023
265219	Emergency and Exit Lighting		10.10.2023
265619	LED Exterior Lighting		10.10.2023

DIVISION 27 – COMMUNICATIONS

270000	District Communications Specifications (LPS Standard)	10.20.2023	10.10.2023
270500	Common Work Results for Communications		10.10.2023
270526	Grounding and Bonding for Communications Systems		10.10.2023
270536	Cable Trays for Communications Systems		10.10.2023
275116	Public Address System		10.10.2023

DIVISION 28 - ELECTRONIC ACCESS CONTROL AND INTRUSION DETECTION

280500	Common Work Results for Electronic Safety and Security		10.10.2023
280513	Conductors and Cables for Electronic Safety and Security		10.10.2023
283111	Digital, Addressable Fire-Alarm System		10.10.2023

DIVISION 31 - EARTHWORK

311000	Site Clearing		10.10.2023
312000	Earth Moving		10.10.2023

DIVISION 32 - EXTERIOR IMPROVEMENTS

321216	Asphalt Paving		10.10.2023
321313	Concrete Paving		10.10.2023
321373	Concrete Paving Joint Sealants		10.10.2023
323113	Chain Link Fences and Gates	10.20.2023	10.10.2023
323119	Decorative Metal Fences and Gates		10.10.2023

DIVISION 33 - UTILITIES

331100	Water Utility Distribution Piping		10.10.2023
333100	Facility Sanitary Sewers		10.10.2023
334100	Storm Utility Drainage Piping		10.10.2023

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SECTION 270000 - DISTRICT COMMUNICATIONS SPECIFICATIONS

PART 1 - GENERAL

1.1 SCOPE OF SERVICES

- A. Fiber optic Cabling: Fiber will be installed connecting the Main Distribution Frame (MDF) fiber panel at the Facility Center to the MDF of the Distribution Center with Single Mode Fiber Cabling: Fiber will be installed in provided 2" conduit with 12-filament single Loose Tube Single Jacket All Dielectric mode fiber. Superior Essex part number 110122T01. When pulling fiber and tracer wire through conduit, a pull string is to be included as well. Fiber to be terminated utilizing LC fiber bulkheads (OR-OFP-LCD12LC) with singlemode connectors (OR-205KNF9SA-09). A breakout kit for the "loose tube" fiber is also needed (OR-61500858). Tracer wire is to be included in conduit. Tracer wire is to be 12 gauge. At the Distribution Center, fiber to be routed to enclosure (Legrand Part# EQ01U-CHC). The Facility Center side currently has a fiber enclosure but will need the bulkheads and connectors.
- B. Copper Cabling: CMP 66-240-xB. Cat 6 Superior Essex Datagain 6+, Plenum rated blue part number: 66-240-2B where noted. Open areas noted on prints would be CMP 66-240-4B (white).
- C. Cabling: CMP 6H-272-xB. Cat 6A Superior Essex, Plenum rated blue part number: 6H-272-2B where noted. Open areas, if noted on prints, would be 6H-272-4B (white).
- D. Cable Management
 1. No electrical tape or zip ties for bundling cables or attaching to j-hooks.
 2. Black plenum rated Velcro strips only for bundling cable. White plenum rated Velcro strips for the locations with white cabling.
 3. On the 48-port patch panels, both cable management bars are to be installed and utilized.
 4. On all cable terminations, stuffer caps are required at the field and closet locations.
 5. When dressing cables on the back of the patch panels, half of the cables will run down the left side and the other half down the right side of the rack.
 6. New cables that are damaged during installation, such as a sliced or cut, even if they pass testing, must be replaced and tested and the old cabling removed.
 7. Damage to other cabling or systems not part of this project must be remedied by the vendor utilizing authorized vendors and/or cabling approved by the District at no cost to the District.
 8. During installation of new cabling, ceiling tiles along artery routes are to be left open until inspected by District Technology staff. Damaged tile and/or grid will need to be replaced by the vendor and will need to match existing tile and grid. Vendors will be responsible for closing all ceiling tiles after District inspections.
 9. Old Ethernet, fiber and enclosures, where applicable, not used will need to be removed and discarded by the vendor. This would also include any empty innerducts.
 10. The District can provide ceiling tiles for any data closets that would need to be recut by the vendor to accommodate cabling pathways.
 11. Any penetration that is not drywall material will need a sleeve and pull string (for future runs) installed per applicable codes.
 12. Service loops of approximately 10-15' should be installed above the ceiling at each endpoint location as well as at each MDF/IDF rack location.
 13. For any endpoint locations and/or conduit pathways that are vacated, add a pull string from wall location to above ceiling/starting point to ending point and cover with a correctly sized faceplate/metal cover.
 14. All data, voice, access control, etc. cables shall be within raceway, J-hooks or other designated cable delivery system. Successful bidder must provide all hardware to run and secure Ethernet, fiber, etc. as specified by applicable codes and ordinances.
 15. Cable trunks should be secured above HVAC duct where applicable unless otherwise approved by the District. All cable should be neatly run within the cable trunk until branching off to an endpoint.
- E. Clarity Rear-Load High Density Jack Panel Kits
 1. 48 Port Panel: 48-port, panel jack panel kit, flat, unloaded, 1 RU, Part: OR-PHDHJU48. All slots must be populated.
 2. Rear-load jacks part OR-HDJ6-00 Black (Cat 6) and part OR-HDJ6A-36 (Cat 6a). Blue.
 3. **All rows in each panel must be filled with the same type of panel jack. No mixing of Cat 6 and 6a jacks in a row. In a 48-port panel there can be a row of 24 Cat 6 and a row of 24 Cat 6a panel jacks. All ports must be terminated from left to right with no skipping of ports on the panel.**

- F. Above ceiling: TracJack Surface Mount Box. Part: OR- 404HDJ2 (Fog White) for locations with two or less cables. For locations with three or four cables, use OR-404HDJ4 (Fog White). For locations with five or six cables, use OR-404HDJ6 (Fog White). TracJacks OR-HDJ6 Fog White (Cat 6) and part OR-HDJ6A-36 Blue (Cat 6a).
- G. Wall installation where applicable:
1. Wall mount box single: Part: OR-403HDJ16 Fog white
 2. Wall mount box dual: Part: OR-403HDJ212 Fog white
 3. Extra deep wall mount single: Part: Wiremold NM2044FW (for HDMI locations)
 4. Extra deep wall mount double: Part Wiremold NM2044-2FW (for HDMI locations)
 5. Wall mount box jack: Part: OR-HDJ6 Fog white
 6. 6-port Faceplate: 403HDJ16 (Fog White) for single gang boxes. NOTE: All vacant slots must be filled with blanks
 7. 4-port Faceplate: 419HDJ4-88 (Fog White) for dual gang boxes with half electrical where applicable.
 8. 12-port Faceplate: 403HDJ212 (Fog White) for dual-gang boxes. NOTE: All vacant slots must be filled with blanks
 9. Blank module, OR-HDJB (Fog White). All vacant slots must be filled with blanks
 10. Wall mount box AV jack where applicable: OR-HDJ5E-68 (Dark Gray)
 11. Wall/Ceiling mount blanks: Blank module, OR-HDJB20. All unpopulated jacks must have a blank installed.
 12. Legrand-Wiremold PN10L10FW (Fog White-8 ft section)
 13. Legrand-Wiremold PN10F86FW (Fog White-Ceiling Connector)
 14. NOTE: All field Ethernet installations must be installed in the upper most top left location available and go from left to right and then down to the next available row, etc.
- H. Equipment Racks:
1. MDF: The distribution frame termination equipment and any electronics to be mounted in one new vendor provided 7' standard free standing 19" EIA/TIA rack with vertical swivel managers. Hubbell Part number CS1976H. Vendor will provide four (6) Horizontal managements to be installed above and below each patch panel and customer provided switches. (Part # Hubbell HM24C, Cable MGMT Duct Panel 19"W x 3.5" H x 3.5" D w/ Cover, steel Black). Ladder from rack(s) to walls and along walls in data closets are to also be included where applicable (with mounting hardware). Wall Angle Support Kit p/n 11421-X12, 3" Channel Rack to Runway p/n 10595-X12 and 12" Universal Cable Runway p/n 10250-X12) as well as a rack mounted power strip, Tripp-Lite PDU1215. See ladder section for other specific part numbers.
- I. Ladder rack to be verified/installed in all existing and/or new racks in all closets. All ladder rack should utilize whatever parts needed for securing to wall and rack.
1. Straight Sections: 6' part # HLS0612B, 10' part # HLS1012B
 2. 90° Turns: Inside Radius 12" part # HLI1290B, Outside Radius 12" part # HLO1290B and Flat Turn Radius 12" part # HLF1290B.
 3. Splice Kits: Butt splice part #: HLBSK, Swivel part # HLSSK, T-junction part # HLTK.
 4. Wall Angle Supports: 6-12" part number HLX0612
 5. Vertical wall bracket (2 clips) part number HLVWBK
 6. Protective end caps, 2-pack, black part number HLECPK2
 7. Wall/Rack mounting kit:Includes (1) HLMPK19, (1) HLX0612,
 8. (1) 40"L x 12"W ladder section, part number HLWRK
 9. J-Bolt Kit 2-pack, galvanized, part number HLJB
 10. Foot kit: 2-pack with splices, black, part number HLRP
- J. Grounding: For data racks, provide necessary grounding and bonding within telecommunications room to comply with TIA-607 B standards. A grounding bar also needs to be installed near the floor close to the rack with Hubbell part number HBBB14210A. The grounding bar will be used at the main distribution point and not as an auxiliary point. Coordinate with the owner for location. Ladder rack, cable trays and free-standing rack(s), etc. must all be grounded as complete pieces. Connections must be clean and contain no spurs or sharp exposed wire. District will provide building ground to bus bar. None of the racks are currently grounded.
- K. Labeling: All locations (fiber, Ethernet, etc.) are to be labeled in typewritten format or owner approved equivalent. Plastic protective covers that come with cable boxes are required. Hand-written location labels will not be permitted. Verify closet designations with the owner.
1. Field Termination: All location labels are to be installed behind the factory transparent plastic protector clearly indicating the closet, panel and port number. For example, in IDF L, jack locations are to be labeled by closet, panel and then port number. For example, L-2-01 would represent Closet L, Panel 2, Port 01. Multiple ports on a field termination endpoint would be labeled as "L-2-01 L-2-02". Label numbers should be above the termination box ports and endpoint terminations should always start at the top of the endpoint termination box. Numbers should be sequential in order where possible. For example, on a two-port box, labels would be at

- the top. In a three-port example two at the top and one at the bottom. In a four-port box two at the top and two at the bottom and in a six-port box three at the top and three at the bottom. All labeling starts at the top left of the box.
2. Closet Termination: The panels do not require port labels to match the field termination end points. Each panel will only need one identifying label in the upper left-hand corner. Examples include L-1, L-2, etc. Verify with owner for clarification.
- L. Ensure all cabling meets specifications utilizing a contractor provided certified tester following TIA-526-14-B guidelines. Provide OTLS test results for all Fiber Optic cabling delivered in written and magnetic media (USB drive or DVD). This includes testing and providing certification results for any cables that need to be pulled again after the initial testing results have been delivered to the District.
- M. Any item of equipment or material not specifically addressed on the drawings or in this document and required to provide a complete and functional installation shall be provided in a level of quality consistent with other specified items at no additional cost to the owner.
- N. Codes: Unless otherwise documented, the successful bidder must provide all hardware to run and secure all cabling and equipment racks as specified by applicable codes and ordinances. References include but are not limited to the following:
1. BICSI: Telecommunications Distribution Methods Manual (TDMM), latest edition
 2. TIA/EIA-568-C: Commercial Building Telecommunications Wiring Standard
 3. EIA/TIA-569B: Commercial Building Standard for Telecommunications Pathways and spaces
 4. TIA/EIA-606: Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
 5. National Electrical Code Article 770 "Optical Fiber Cables" and Article 800 "Communications Circuits"
 6. Local Electrical Code
 7. National Fire Protection Association (NFPA) 70 National Electrical Code
 8. OSHA 29 CFR 1926/1910 Safety and Health Standards
 9. Underwriters Laboratories, Inc. (UL) Listings and Approvals
 10. Country, state and local health, safety and building
- O. Penetrations of walls, floors and ceilings:
1. The Contractor shall make no penetration of floors, walls or ceiling without the prior consent of the owner.
 2. Where penetrations through acoustical walls or other walls for cableways are needed the Contractor will seal such penetrations in compliance with applicable code requirements.
 3. Where penetrations through fire-rated walls for cableways are needed the Contractor will seal such penetrations as required by code.
- P. General Installation
1. The contractor shall furnish all required installation tools to facilitate cable pulling without damage to fiber jacket.
 2. All routing shall be kept clear of other trades work and supported using the method(s) mentioned in this section.
 3. During pulling operation an adequate number of workers shall be present to allow fiber observation at all points of raceway entry and exit, as well as to feed fiber and operate pulling machinery.
 4. Pull cables in accordance with cable manufacturer's recommendations and ANSI/IEEE C2 standards.
 5. Pull all cabling by hand unless installation conditions require mechanical assistance.
 6. Where mechanical assistance is used, ensure that maximum tensile load for fiber is not exceeded. This may be in the form of continuous monitoring of pulling tension, use of "break-away" or other approved method.
 7. Any fiber shall be installed splice-free.
 8. Avoid abrasion and other damage to cabling during installation.
 9. If pulling lubricant is used it shall be non-injurious to cabling jacket and other materials used and not harden or become adhesive with age.
 10. Minimum bend radii, as specified by the manufacturer, must be adhered to for pulling and final installation.
 11. Any cabling bent or kinked to radius less than recommended dimension are not allowed and shall be replaced at no expense to owner.
 12. Repair damage to interior spaces caused by installation of cable, raceway or other hardware.
 13. Repairs must match preexisting color and finish of walls, floors and ceilings.
- Q. Documentation: An Excel spreadsheet will be prepared by vendor and submitted to the District in electronic format with at least the following information. Obtain official spreadsheet from customer.
1. Building name
 2. Data closet number/identifier
 3. Panel number
 4. Port number

- 5. Terminated in wall, floor or ceiling
- 6. Room/Location Description

- R. Door Controls Red Icon: Door control element wire, Windy City Wire part number 4461030 (or equivalent but must have a yellow jacket), to be ran from designated doors to the designated MDF/IDF. At each door location, there will be a 10-foot service loop starting at the top of the door frame. At the designated MDF/IDF, cable must be able to touch the ground plus four feet. All terminations will be completed by District staff or contractor.
- S. Specialized Drops: If the map indicates something like HVAC, Door Controls, etc. next to the data drop symbol, the cable must be terminated inside of the enclosure. Note that the enclosure might not be installed at the time the cable is run. The cables will still be terminated in a biscuit and labeled accordingly. Coordinate with Network Administrator or Technology Director.
- T. Specialized Systems: Additional cable will need to be pulled for intercom and intrusion detection systems. Cabling for intercom locations will be 2-conductor 18-gauge unshielded plenum rated cable (yellow in color). Intrusion detection will be 18 gauge 4-conductor unshielded plenum rated cable (gray in color). All locations and routes will be identified on the maps and handed out at the walk through. Verify where cable needs to be landed and labeled for each specialized system. For example, intercom cabling is usually routed to the bottom of the equipment rack and labeled in the data closets.
- U. AV Requirements:
 - 1. At conference room locations, data will be installed at a specified location for District provided flat panel TV. There will be a single gang box down low and connected to the upper data box behind the TV. Vendor must connect an HDMI cable from upper location to lower location with HDJHDMI couplers. Blanks to be installed for any unused slots.

1.2 VENDOR QUALIFICATIONS

- A. The contractor must employ and utilize a BICSI RCDD in good standing at all times during the entire installation of this system.
- B. The contractor must have a minimum of five (5) years' experience on similar cabling systems.
- C. Vendor must agree to e-rate guidelines, have a valid SPIN number AND have a SPAC form on file that is not outdated.
- D. The Vendor must also have the necessary certifications to provide the nCompass Warranty offered between Legrand Ortronics and Superior Essex. The network cabling infrastructure must be installed by Supplier approved designers and Certified Contractors at the Certified Installer Plus-Enterprise Solutions Partner (CIP-ESP) tier or Certified Installer Plus (CIP) tier in accordance with manufacturer's installation instructions and specifications. Copies of certifications must be attached to the Vendor's response for evaluation by The Customer.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 270000

SECTION 323113 - CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Chain-link fences.
 - 2. Gates: Swing.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. Fence and gate posts, rails, and fittings.
 - 2. Chain-link fabric, reinforcements, and attachments.
 - 3. Gates and hardware.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work. Show accessories, hardware, gate operation, and operational clearances.

1.4 PROJECT CONDITIONS

- A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

1.5 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which Installer agrees to repair or replace components of chain-link fences and gates that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Faulty operation of gates.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 2. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CHAIN-LINK FENCE FABRIC

- A. General: Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist. Comply with CLFMI Product Manual and with requirements indicated below:
 - 1. Fabric Height: Fence to be 6' or 8' high.
 - 2. Steel Wire Fabric: Wire with a diameter of 0.148 inch, 9 gauge

- a. Mesh Size: 2 inches
- b. Zinc-Coated Fabric: ASTM A 392, Type II, Class 1, 1.2 oz./sq. ft. with zinc coating applied after weaving.
- c. Vinyl-Coated Fabric: ASTM F 668, Class 2b fused over zinc -coated steel wire.
- 1) Color: Black, complying with ASTM F 934.
- d. Coat selvage ends of fabric, that is metallic coated before the weaving process, with manufacturer's standard clear protective coating.
- 3. Selvage: Knuckled at both selvages.

2.2 FENCE FRAMING

- A. Posts and Rails: Comply with ASTM F 1043 for framing, including rails, braces, and line; terminal; and corner posts. Provide members with minimum dimensions and wall thickness according to ASTM F 1043 based on the following:
 - 1. Fence Height: As indicated on Drawings.
 - 2. Light Industrial Strength: Material Group IC-L, round steel pipe, electric-resistance-welded pipe.
 - a. Line Post: 2.375 inches in diameter, SS40 (3.12 lbs/ft)
 - b. End, Corner and Pull Post: 2.875 inches in diameter, SS40 (4.64 lbs/ft)
 - 3. Horizontal Framework Members: Top rails complying with ASTM F 1043.
 - a. Top Rail: 1.66 inches in diameter.
 - 4. Metallic Coating for Steel Framing:
 - a. Type A zinc coating.
 - 5. Vinyl coating over metallic coating.
 - a. Color: Black, complying with ASTM F 934.

2.3 TENSION WIRE

- A. Vinyl-Coated Steel Wire: 0.177-inch diameter, tension wire complying with ASTM F 1664, Class 2b fused zinc-coated steel wire.
 - 1. Color: Black, complying with ASTM F 934.

2.4 SWING GATES

- A. General: Comply with ASTM F 900 for gate posts and single and double swing gate types.
 - 1. Gate Leaf Width: As indicated on drawings.
 - 2. Gate Fabric Height: As indicated on drawings.
- B. Pipe and Tubing:
 - 1. Zinc-Coated Steel: Comply with ASTM F 1043 and ASTM F 1083; protective coating and finish to match fence framing.
 - 2. Gate Posts: Round tubular steel, 2.875 inches in diameter (5.79 lbs/ft)
 - 3. Gate Frames and Bracing: Round tubular steel matching fencing
- C. Frame Corner Construction: Assembled with corner fittings.
- D. Hardware:

1. Hinges: 360-degree inward and outward swing.
2. Latches permitting operation from both sides of gate with provision for padlocking accessible from both sides of gate.
3. Provide a gate stop for all gates.

E. Pipe and Tubing:

1. Zinc-Coated Steel: Protective coating and finish to match fence framing.
2. Gate Posts: Round tubular steel, 4.00 inches in diameter (9.11 lf/ft), coating matching fencing.
3. Gate Frames and Bracing: Round tubular steel, matching fencing

F. Frame Corner Construction: Welded and 3/8 inch diameter, adjustable truss rods for panels 5 feet or wider

G. Hardware:

1. Provide latch. Padlock and chain to be provided by the Owner.
2. Tire with Post: Provide inflatable tire on galvanized post at leading edge of gate. Tire shall swivel on post.

2.5 FITTINGS

A. General: Comply with ASTM F 626.

2.6 GROUT AND ANCHORING CEMENT

- A. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout, recommended in writing by manufacturer, for exterior applications.
- B. Erosion-Resistant Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound. Provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended in writing by manufacturer, for exterior applications.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, pavement work, and other conditions affecting performance of the Work.
 1. Do not begin installation before final grading is completed unless otherwise permitted by Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Stake locations of fence lines, gates, and terminal posts. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.3 INSTALLATION, GENERAL

- A. Install chain-link fencing to comply with ASTM F 567 and more stringent requirements indicated.

3.4 CHAIN-LINK FENCE INSTALLATION

- A. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- B. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 - 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 - 2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
 - a. Concealed Concrete: Top 2 inches below grade to allow covering with concrete sidewalk.
- C. Terminal Posts: Locate terminal end, corner, and gate posts per ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment of 30 degrees or more.
- D. Line Posts: Space line posts uniformly at 8' o.c.
- E. Tension Wire: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch diameter hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches o.c. Install tension wire in locations indicated before stretching fabric. Provide horizontal tension wire at the following locations:
 - 1. Extended along bottom of fence fabric. Install top tension wire through post cap loops. Install bottom tension wire within 6 inches of bottom of fabric and tie to each post with not less than same diameter and type of wire.
- F. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.
- G. Chain-Link Fabric: Apply fabric to outside of enclosing framework. Leave 1 inch between finish grade or surface and bottom selvage unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.
- H. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at one end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.
 - 1. Maximum Spacing: Tie fabric to line posts at 12 inches o.c. and to braces at 24 inches o.c.

3.5 GATE INSTALLATION

- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

3.6 ADJUSTING

- A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Lubricate hardware and other moving parts.

END OF SECTION 323113

PROJECT INFORMATION

PROJECT NUMBER	23021.00
PROJECT NAME	Liberty Distribution Center
OWNER	Liberty Public Schools 8 Victory Lane Liberty, MO 64068
AUTHORITY HAVING JURISDICTION	City of Liberty, MO Planning & Development 101 E. Kansas Street Liberty, MO 64068
RESPONDING FIRE SERVICE	Liberty Fire Department
ANTICIPATED OCCUPANCY	Apr.2025
ADOPTED CODES AND ORDINANCES	2018 International Building Code 2018 International Existing Building Code 2017 National Electric Code (NFPA 70) 2018 International Mechanical Code 2018 International Plumbing Code 2012 International Energy Conservation Code 2009 ICC A117.1 Accessible and Usable Buildings and Facilities 2016 ASME A17.1 Safety Code for Elevators and Escalators 2014 ICC 500 Standard on Design and Construction of Storm Shelters Amendments

BLDG 1
BUILDING INFORMATION

OCCUPANCY CLASSIFICATION:	Mixed Use: Business; B, Low hazard storage: S-2, Moderate hazard storage: S-1, Moderate hazard industrial: F-1
CONSTRUCTION TYPE:	II-B (802.2, Non-combustible, non-protected) New construction
BUILDING HEIGHT:	75' above grade plane
Allowable Height (Table 504.3):	35'
Built-up Height:	3 stories above grade plane
Allowable Stories (Table 504.4):	1
BUILDING AREA:	S1: Building one story max. above grade plane with automatic sprinkler system Sprinkler qualifier (Table 506.2)
Allowable Area	Ratios not to exceed 1.0 per 506.4.2 - see ratio calculations
Building Area	29,526 SF
OCCUPANCY SEPARATION:	1-Hour separation (Table 508.4)
INCIDENTAL USE SEPARATION:	No separation requirement (509.3)
FIRE RESISTANCE RATINGS:	(Per Table 601, 602)
Primary Structural Frame:	0-Hour fire-resistance rating
Exterior Bearing Walls:	0-Hour fire-resistance rating
Interior Bearing Walls:	0-Hour fire-resistance rating
Exterior Nonbearing Walls:	0-Hour fire-resistance rating
Interior Nonbearing Walls:	0-Hour fire-resistance rating
Floor Construction / Secondary Members:	0-Hour fire-resistance rating
Roof Construction / Secondary Members:	0-Hour fire-resistance rating
Fire Walls	No fire walls
Fire Barriers	No fire barriers
Fire Partitions	1-Hour rated wall assembly (706) 45 Minute door, 45 Minute Glazing (Table 716.1(2)) 45 Minute Glazing at door sidelights and transoms (Table 716.1(2)) 45 Minute Fire Windows (Table 716.1(3))
Smoke Barriers / Partitions	0-Hour rated wall assembly (710) openings per 710.5.1 and 710.5.2
Shafts	No shaft enclosures

BLDG 1
EGRESS COMPONENTS

NUMBER OF EXITS:	2 per space greater than 29 occupants (Table 1006.2.1) 3 per space with load 501 to 1,000; 4 per space over 1,000
DEAD-END CORRIDORS:	50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U (1020.4, Exception 2)
COMMON PATH OF TRAVEL:	100' (Table 1006.2.1)
TRAVEL DISTANCE TO EXIT:	250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2)
CORRIDOR CONSTRUCTION:	0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1)
CORRIDOR WIDTH:	44" minimum corridor width (Table 1020.2) 24" minimum for access to MEP systems or equipment (Table 1020.2)
MEANS OF EGRESS CAPACITY:	0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg)

BLDG 1
FIRE SAFETY FEATURES

SPRINKLER:	Automatic sprinkler system provided throughout Sprinkler installed per NFPA 13 (803.3.1.1)
FIRE ALARM SIGNALING:	EVAC system
EMERGENCY LIGHTING / POWER:	Battery Back-up
SMOKE CONTROL SYSTEM:	N/A

BLDG 1
PLUMBING FIXTURES

Water Closets (Male):	B: 1 per 25 then 1 per 50 over 50 S: 1 per 100 F: 1 per 100
Water Closets (Female):	B: 1 per 25 then 1 per 50 over 50 S: 1 per 100 F: 1 per 100
Lavatories (Male):	B: 1 per 40 then 1 per 80 over 80 S: 1 per 100 F: 1 per 100
Lavatories (Female):	B: 1 per 40 then 1 per 80 over 80 S: 1 per 100 F: 1 per 100
Drinking Fountains:	B: 1 per 100 S: 1 per 1,000 F: 1 per 400
Service Sinks:	1
Bathtubs / Showers:	N/A

BUILDING AREA CALCULATIONS

OCCUPANCY: Business; B (304.1)		
506.2	Allowable Area Determination: Equation 5-2	
Aa =	[At + (NS x If)] x Sa, where: At = Allowable area (square feet, typ.) If = Area increase due to frontage NS = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 If = Area factor increase due to frontage (percent) per Section 506.3 Sa = Actual number of stories above grade plane; not to exceed 3 (4 if building is fully sprinklered).	At = 92000 NS = 2500 If = 0.25 Sa = 1
Aa =	97750 sq ft	
506.3	Frontage Increase: Per Equation 5-5:	
If =	[FIP - 0.25] W/30, where: FIP = Building perimeter that fronts a public way or open space having 20 feet open minimum width P = Perimeter of entire building (feet) W = Width of public way of open space (feet) - min. 20' to be allowed, use 30' max.	F = 348 P = 695 W = 30
If =	0.25	
OCCUPANCY: Storage: S-2 Low Hazard (311.3)		
506.2	Allowable Area Determination: Equation 5-2	
Aa =	[At + (NS x If)] x Sa, where: At = Allowable area (square feet, typ.) If = Area increase due to frontage NS = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 If = Area factor increase due to frontage (percent) per Section 506.3 Sa = Actual number of stories above grade plane; not to exceed 3 (4 if building is fully sprinklered).	At = 104000 NS = 2800 If = 0.25 Sa = 1
Aa =	110500 sq ft	
506.3	Frontage Increase: Per Equation 5-5:	
If =	[FIP - 0.25] W/30, where: FIP = Building perimeter that fronts a public way or open space having 20 feet open minimum width P = Perimeter of entire building (feet) W = Width of public way of open space (feet) - min. 20' to be allowed, use 30' max.	F = 348 P = 695 W = 30
If =	0.25	
OCCUPANCY: Storage: S-1 Moderate Hazard (311.2)		
506.2	Allowable Area Determination: Equation 5-2	
Aa =	[At + (NS x If)] x Sa, where: At = Allowable area (square feet, typ.) If = Area increase due to frontage NS = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 If = Area factor increase due to frontage (percent) per Section 506.3 Sa = Actual number of stories above grade plane; not to exceed 3 (4 if building is fully sprinklered).	At = 70000 NS = 17500 If = 0.25 Sa = 1
Aa =	74375 sq ft	
506.3	Frontage Increase: Per Equation 5-5:	
If =	[FIP - 0.25] W/30, where: FIP = Building perimeter that fronts a public way or open space having 20 feet open minimum width P = Perimeter of entire building (feet) W = Width of public way of open space (feet) - min. 20' to be allowed, use 30' max.	F = 348 P = 695 W = 30
If =	0.25	
OCCUPANCY: Industrial: F-1 Moderate Hazard (306.2)		
506.2	Allowable Area Determination: Equation 5-2	
Aa =	[At + (NS x If)] x Sa, where: At = Allowable area (square feet, typ.) If = Area increase due to frontage NS = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 If = Area factor increase due to frontage (percent) per Section 506.3 Sa = Actual number of stories above grade plane; not to exceed 3 (4 if building is fully sprinklered).	At = 62000 NS = 15500 If = 0.25 Sa = 1
Aa =	74375 sq ft	
506.3	Frontage Increase: Per Equation 5-5:	
If =	[FIP - 0.25] W/30, where: FIP = Building perimeter that fronts a public way or open space having 20 feet open minimum width P = Perimeter of entire building (feet) W = Width of public way of open space (feet) - min. 20' to be allowed, use 30' max.	F = 348 P = 695 W = 30
If =	0.25	
508.4.2 Separated Mixed Use Area Ratios		
Allowable building area. In each story, the building area shall be such that the sum of the actual building area of each separated occupancy divided by the allowable building area of each separated occupancy shall not exceed 1.0		
Building Area	29,526 SF	
Occupancy	Business, Group B (304.1)	
Actual Area	2,922	
Allowable Area	97750 sq ft	
Ratio	0.03	
Occupancy	Storage, Group S-1 Moderate Hazard (311.2)	
Actual Area	13,715	
Allowable Area	74375 sq ft	
Ratio	0.18	
Occupancy	Storage, Group S-2 Low Hazard (311.3)	
Actual Area	7,920	
Allowable Area	110500 sq ft	
Ratio	0.07	
Occupancy	Industrial, Group F-1 Moderate Hazard (306.2)	
Actual Area	2,010	
Allowable Area	65875 sq ft	
Ratio	0.03	
Sum of Ratios:	0.31	

Code BLDG Occupant Load Table

Rm No	Room Name	Function of Space	Area (SF)	Occupant Load Factor	Space Occupant Load
A115	Not Used	Accessory Storage Areas, Mechanical Equipment Room	Not Placed	300 SF	
Not Placed					0
A102	Copy Center	Industrial Areas	2007 SF	100 SF	21
A103	Break Area	Business Areas	247 SF	150 SF	2
A105	Workstations	Business Areas	499 SF	150 SF	4
A108	Mothers	Business Areas	72 SF	150 SF	1
A112	Conference	Assembly Without Fixed Seats Unconcentrated (tables & Chairs)	454 SF	15 SF	31
A113	Office	Business Areas	163 SF	150 SF	2
A114	Office	Business Areas	165 SF	150 SF	2
A116	IT / Pony Mail / Flex	Warehouses	1476 SF	500 SF	3
A117	Laundry	Warehouses	540 SF	500 SF	2
A118	MEP	Accessory Storage Areas, Mechanical Equipment Room	196 SF	300 SF	1
A120	Coordinator	Warehouses	561 SF	500 SF	2
A121	Swing	Warehouses	2230 SF	500 SF	5
A122	Warehouse	Warehouses	7611 SF	500 SF	16
A123	Flex / Charging	Warehouses	978 SF	500 SF	2
A124	Dry Food Warehouse	Warehouses	5129 SF	500 SF	11
A125	Cooler	Warehouses	392 SF	500 SF	1
A126	Freezer	Warehouses	2321 SF	500 SF	5
Level 1					111
Total Building Occupant Load					111

Total Facility Fixture Counts						
Fixture	Required			Provided		
	Male	Female	Total	Male	Female	Gender Neutral
Water Closets	1	1	2	5	2	1
Lavatories	1	1	2	5	2	1
Drinking Fountains			1	2		
Service Sinks			1	1		

Urinal Substitutions				
Occupancy Group	Percentage Allowed	Required Water Closets	Permitted Substitutions	Substitutions Applied
Assembly / Education	67% of required	N/A	N/A	N/A
All other occupancies	50% of required	2	1	0

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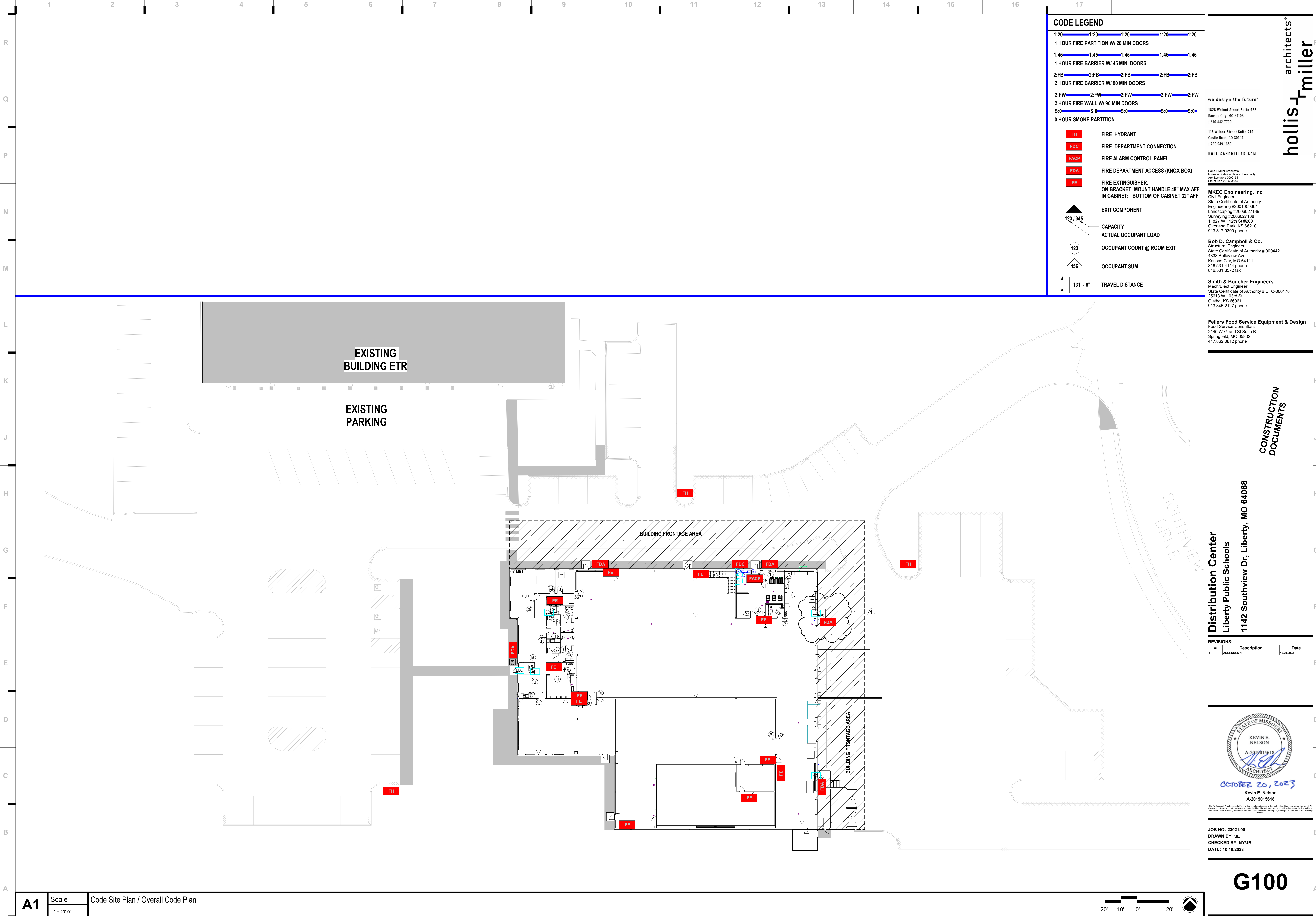


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A-2019015618

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KEVIN E. NELSON
A-2019015618
ARCHITECT
OCTOBER 20, 2023
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A1

Scale
1" = 20'-0"

Code Site Plan / Overall Code Plan

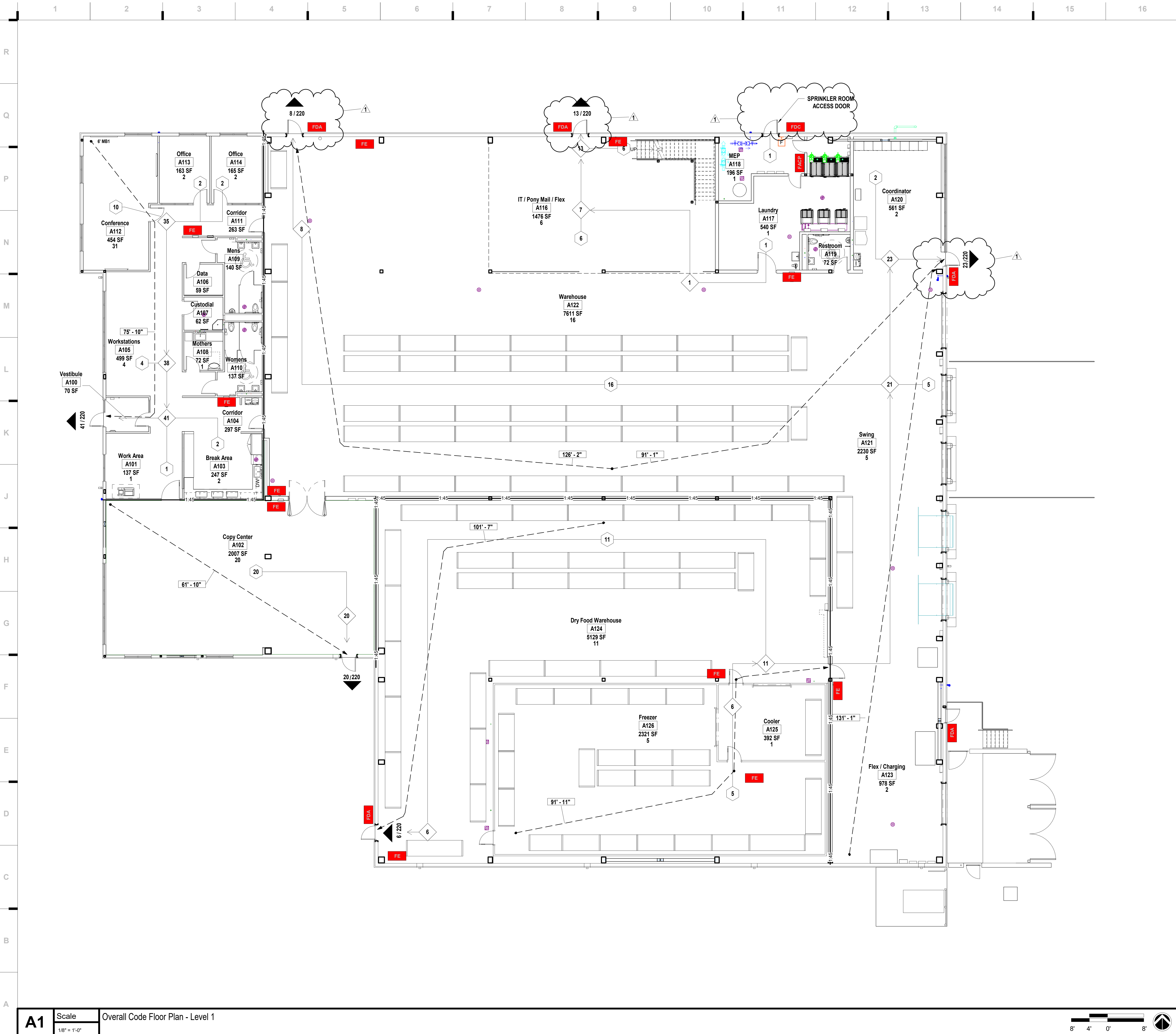
20' 10' 0' 20'

CODE SITE PLAN/OVERALL CODE PLAN

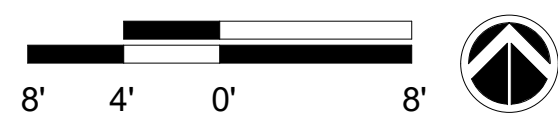
10/20/2023 12:11:42

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10/20/2023 12:11:45



A1 Scale Overall Code Floor Plan - Level 1
1/8" = 1'-0"



CODE LEGEND

1:20

1:20

1:20

1:20

1:20

1:20

1 HOUR FIRE PARTITION W/ 20 MIN DOORS

1:45

1:45

1:45

1:45

1:45

1:45

1 HOUR FIRE BARRIER W/ 45 MIN. DOORS

2:FB

2:FB

2:FB

2:FB

2:FB

2:FB

2 HOUR FIRE BARRIER W/ 90 MIN DOORS

2:FW

2:FW

2:FW

2:FW

2:FW

2:FW

2 HOUR FIRE WALL W/ 90 MIN DOORS

S:0

S:0

S:0

S:0

S:0

S:0

0 HOUR SMOKE PARTITION

PH

FDC

FACP

FDA

FE

FIRE HYDRANT

FIRE DEPARTMENT CONNECTION

FIRE ALARM CONTROL PANEL

FIRE DEPARTMENT ACCESS (KNOX BOX)

FIRE EXTINGUISHER:
ON BRACKET: MOUNT HANDLE 48" MAX AFF
IN CABINET: BOTTOM OF CABINET 32" AFF

EXIT COMPONENT

CAPACITY
ACTUAL OCCUPANT LOAD

OCCUPANT COUNT @ ROOM EXIT

OCCUPANT SUM

TRAVEL DISTANCE

123 / 345

123

456

131' - 6"

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ARCHITECT

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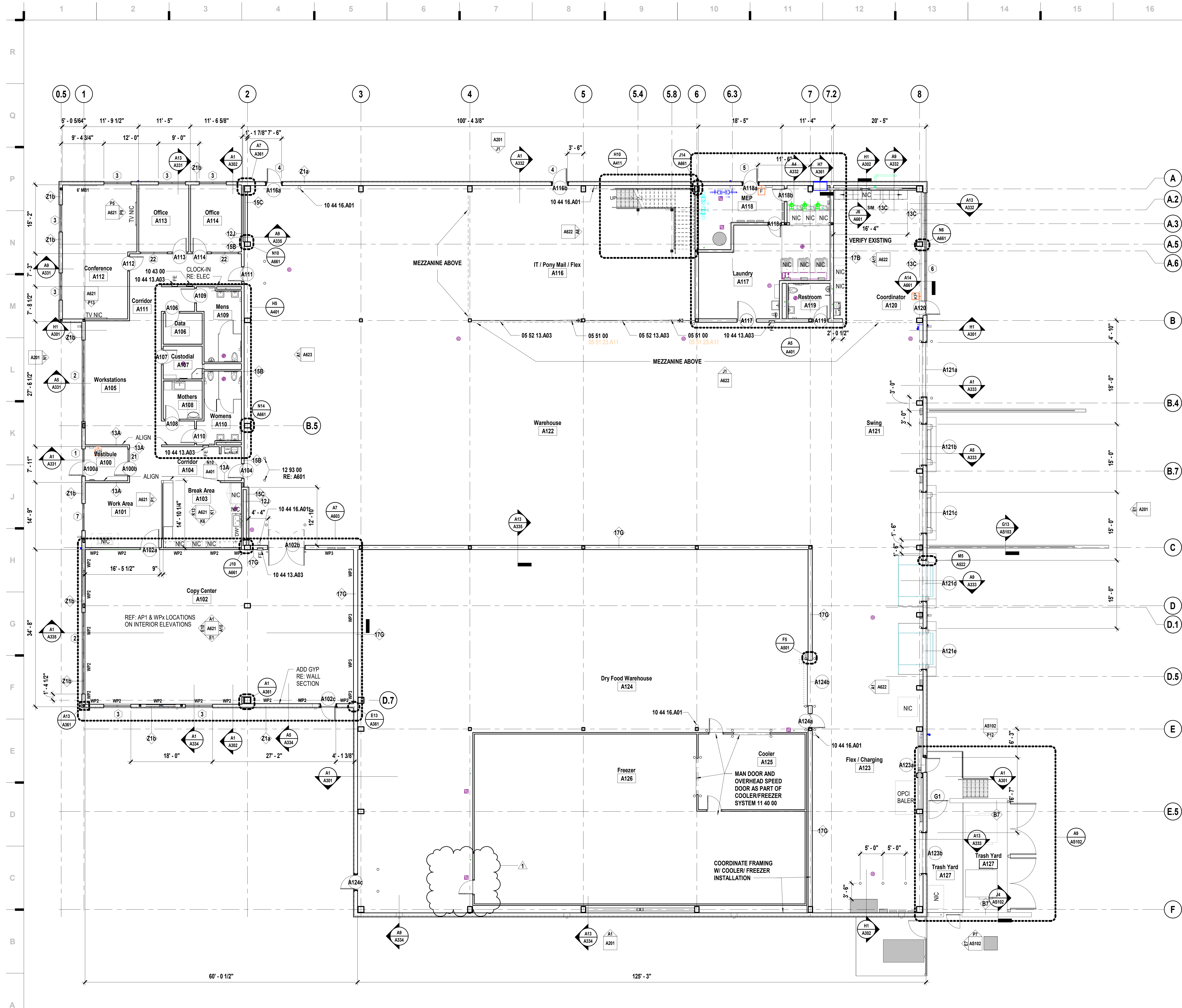
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G101

CODE FLOOR PLAN - LEVEL 1 BLDG 1

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10/20/2023 12:11:49



A1

Scale

Overall Floor Plan - Level 1

1/8" = 1'-0"

8' 4' 0' 8'

SHEET KEYNOTE LEGEND

05 51 00	METAL STAIRS
05 52 13.A03	STAINLESS STEEL PIPE AND TUBE RAILINGS
10 43 00	EMERGENCY AID SPECIALTIES
10 44 13.A03	SEMI-RECESSED STEEL CABINET
10 44 16.A01	FIRE EXTINGUISHER
12 93 00	SITE FURNISHINGS

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SHEET NOTES

- REFER TO SHEET G000 FOR SHEET INDEX
- DO NOT SCALE THIS DRAWING
- ALL INTERIOR WALLS ARE WALL TYPE 13B UNLESS NOTED OTHERWISE.
- ALL EXTERIOR WALLS ARE WALL TYPE 21a UNLESS NOTED OTHERWISE.
- INTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
A. TO FACE OF STUD
B. TO FACE OF MASONRY UNIT
C. TO FACE OF DOOR AND WINDOW ROUGH OPENINGS
- EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF GIRT
- COORDINATE LOCATIONS WHERE BACKING IS REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, WALL HUNG ACCESSORIES AND TECHNOLOGY
- REF TO FINISH FLOOR PLAN & ROOM FINISH SCHEDULE FOR LOCATIONS OF WALL PANELING
- REF TO RACKING PLAN FOR LOCATION AND QUANTITY OF RACKS

STATE OF MISSOURI

KEVIN E. NELSON

A-2019015618

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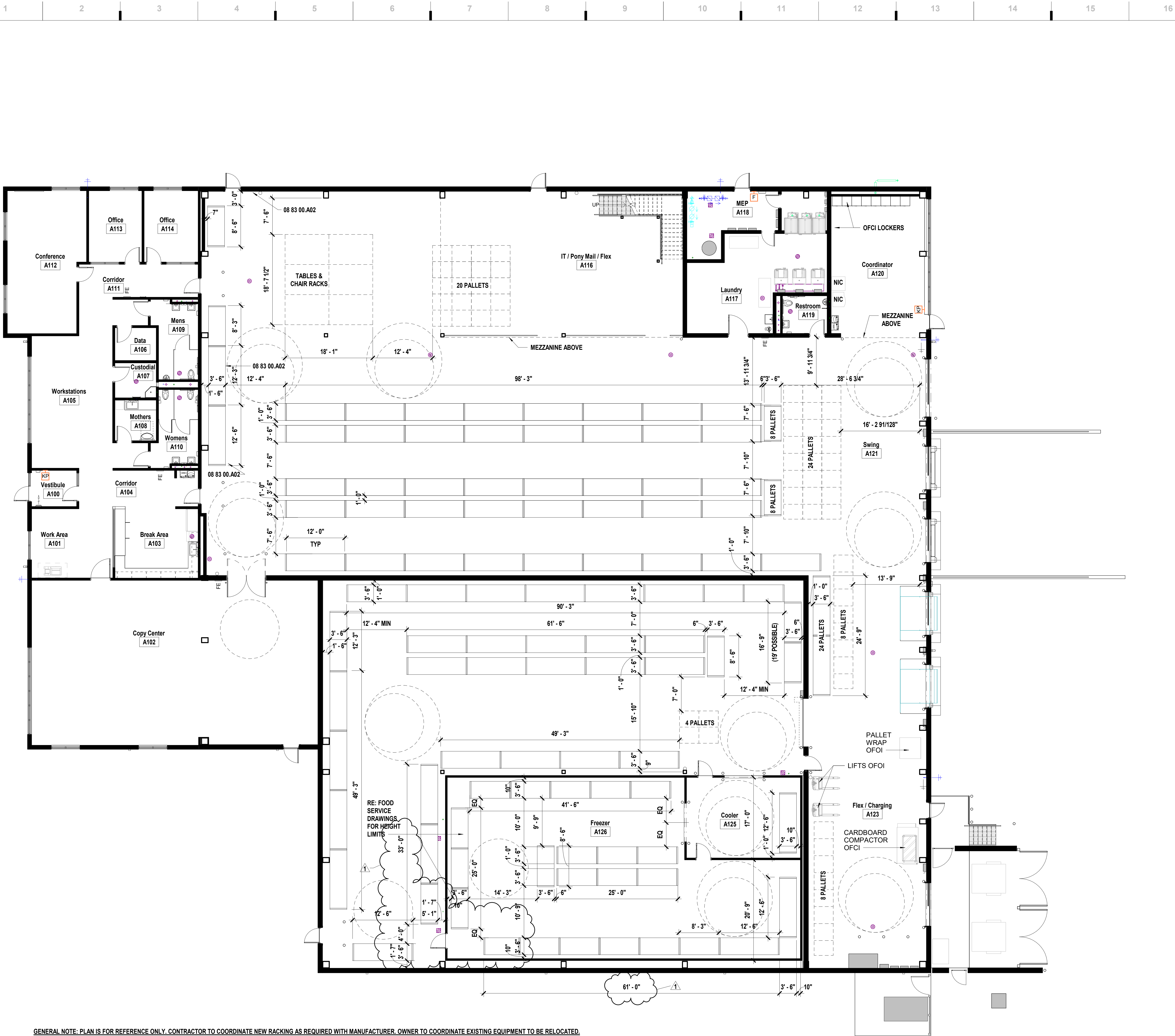
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A101



GENERAL NOTE: PLAN IS FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE NEW RACKING AS REQUIRED WITH MANUFACTURER. OWNER TO COORDINATE EXISTING EQUIPMENT TO BE RELOCATED.

SHEET KEYNOTE LEGEND

08 83 00.A02 SAFETY GLASS MIRRORS

SHEET NOTES

- REFER TO SHEET G000 FOR SHEET INDEX
- FINISH FLOOR PATTERNS TO BE CENTERED IN EACH ROOM UNO
- CORNER GUARD LOCATIONS ARE INDICATED BY SYMBOL (CG) AND ARE TO BE FULL HEIGHT FROM TOP OF BASE
- COORDINATE FLOORING INSTALLATION WITH CASEWORK TO ENSURE FLOORING EXTENDS UNDER CABINET TOE SPACES AND OPEN KNEE/APPLIANCE SPACES
- ALL CLOSETS AND ALCOVES WITHOUT SEPARATE ROOM NUMBERS TO HAVE SAME FLOORING AND PATTERNS AS THE LARGER, IDENTIFIED ROOM
- NOT ALL FLOORING MATERIALS SHOWN ON FINISH PLANS. REFER TO FINISH SCHEDULE FOR MATERIALS IN LOCATIONS NOT SHOWN
- PATTERNS SHOWN THIS SHEET SHOULD REFLECT PATTERN OF MATERIAL MODULE
- ITEMS SHOWN IN HALFTONE ARE NOT IN SCOPE OF WORK AND ARE TO BE RELOCATED BY OWNER.
- ALIGN PAIRS OF BOLLARDS AT EACH INSTANCE OF OVERHEAD AND DOUBLE DOORS.
- GYPSON CONTROL JOINTS (CJ) TO OCCUR EVERY 25'-0" O.C. ALONG INTERIOR FACES OF WALLS, U.N.O.
RE: A110 SLAB PLAN FOR CONCRETE CONTROL JOINTS (CJ)
- SAFETY MIRRORS RE: RACKING PLAN A604. VERIFY FINAL LOCATION OF SAFETY MIRRORS WITH OWNER 08 83 00.A02
- BD = BOLLARDS LOCATED INSIDE BUILDING 12 93 00 TO ALIGN W/ ADJACENT DOOR FRAME/TRACK UNO.

BD1 = FIXED BOLLARD, FIELD PAINTED, 6" DIAMETER
BD2 = PEDESTRIAN BOLLARD, FIELD PAINTED, 3" DIAMETER
BD3 = COLUMN GUARD, 42" TALL, 05 50 00 A17

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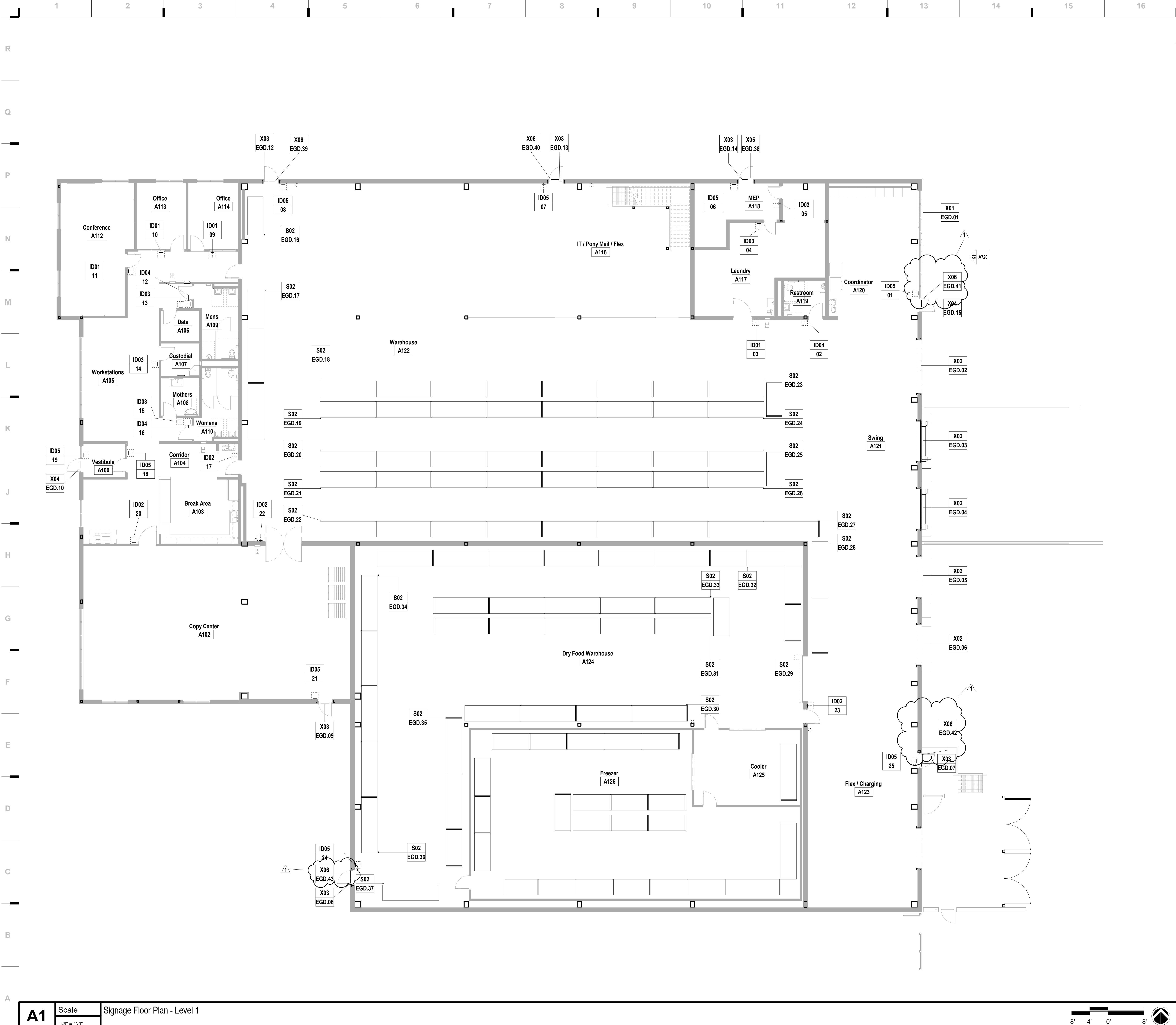
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A604



EGD GENERAL NOTES

- THESE GENERAL NOTES ARE SUPPLEMENTAL TO THE PROJECT MANUAL.
- CONTRACTOR TO REVIEW THE DRAWINGS (INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, STRUCTURAL, SITE, AND ELECTRICAL DRAWINGS) AND FIELD VERIFY SITE CONDITIONS TO CONFIRM SIZES AND LOCATIONS OF SIGNAGE AND ANY SIGNAGE-RELATED ELEMENTS.
 - ANY DISCREPANCIES AND/OR CONFLICTS SHALL BE REPORTED TO THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH FABRICATION OR ORDERING OF MATERIALS.
 - REFER TO FINAL ART FOR ADDITIONAL INSTRUCTIONS AND INFORMATION ON NON-PRINTING LAYERS.
 - PRE-INSTALL COORDINATION MEETING IS MANDATORY.
 - CONTRACTOR SHALL SUBMIT FULLY-DETAILED WORKING (SHOP) DRAWINGS OF ALL SIGNS AND GRAPHICS CONTAINED IN THIS PACKAGE TO THE ARCHITECT. DRAWINGS SHALL BE REVIEWED AND HAVE SIGNED APPROVAL PRIOR TO FABRICATION OR ORDERING OF MATERIALS. REFER TO PROJECT MANUAL.
 - ALL SIGNS ARE TO BE FABRICATED FROM MATERIALS SPECIFIED UNLESS OTHERWISE APPROVED IN WRITING BY CLIENT AND ARCHITECT.
 - CONTRACTOR IS RESPONSIBLE FOR DETERMINING PROPER MOUNTING, FASTENING AND ANCHORING METHODS FOR ALL SIGNS UNLESS NOTED OTHERWISE. DETERMINATION TO ACCOUNT FOR SURFACE MATERIAL SIGN IS BEING MOUNTED TO. SEE ALSO SECTION 10 14 00 OF THE SPECIFICATIONS.
 - DRAWINGS CONTAINED IN THIS PACKAGE ARE FOR AESTHETIC AND FUNCTIONAL DESIGN, ONLY. NO INSTRUCTIONS FOR STRUCTURAL APPROPRIATENESS HAVE BEEN MADE. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO ENSURE THAT ALL ELEMENTS ARE FABRICATED FOR A STABLE AND DURABLE INSTALLATION WHILE ADHERING TO THE AESTHETIC DETAILS INDICATED.
 - ALL FASTENERS ARE TO BE CONCEALED UNLESS NOTED OTHERWISE. ANY VISIBLE FASTENERS TO BE COUNTER-SUNK AND PAINTED TO MATCH ADJACENT MATERIAL, UNLESS NOTED OTHERWISE.
 - ALL TEXT SHOWN IS FOR REFERENCE ONLY. UNLESS NOTED OTHERWISE, SIGNAGE CONTRACTOR TO CONFIRM MESSAGE SCHEDULE WITH ARCHITECT FOR EXACT TEXT ON EACH SIGN.
 - LAY OUT EACH SIGN MESSAGE FOR APPROVAL PER SPECIFICATION SECTION 10 14 23.
 - ALL GRAPHICS SHOWN ARE PLACEHOLDER IMAGES.
 - CONTRACTOR TO COORDINATE BLOCKING NEEDS WITH ARCHITECT AND CONSTRUCTION MANAGER.
 - PROVIDE ACCESSIBLE PANELS TO ALL TRANSFORMERS. FINAL LOCATION OF TRANSFORMERS TO BE APPROVED BY ARCHITECT.
 - FOR SIGNS WITH ILLUMINATION, ALLOW FOR 10 (TEN) FEET OF CABLE PER SIGN FOR CONNECTION TO ELECTRICAL JUNCTION BOX.
 - PROVIDE APPROPRIATE CHEMICAL BOND BREAK BETWEEN ALL DISSIMILAR METALS (INCLUDING BETWEEN SIGN PARTS OR BETWEEN SIGNS AND MOUNTING SUBSTRATE).
 - CONTRACTOR TO VERIFY ALL EXISTING FINISHES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PERFORMING ANY WORK.

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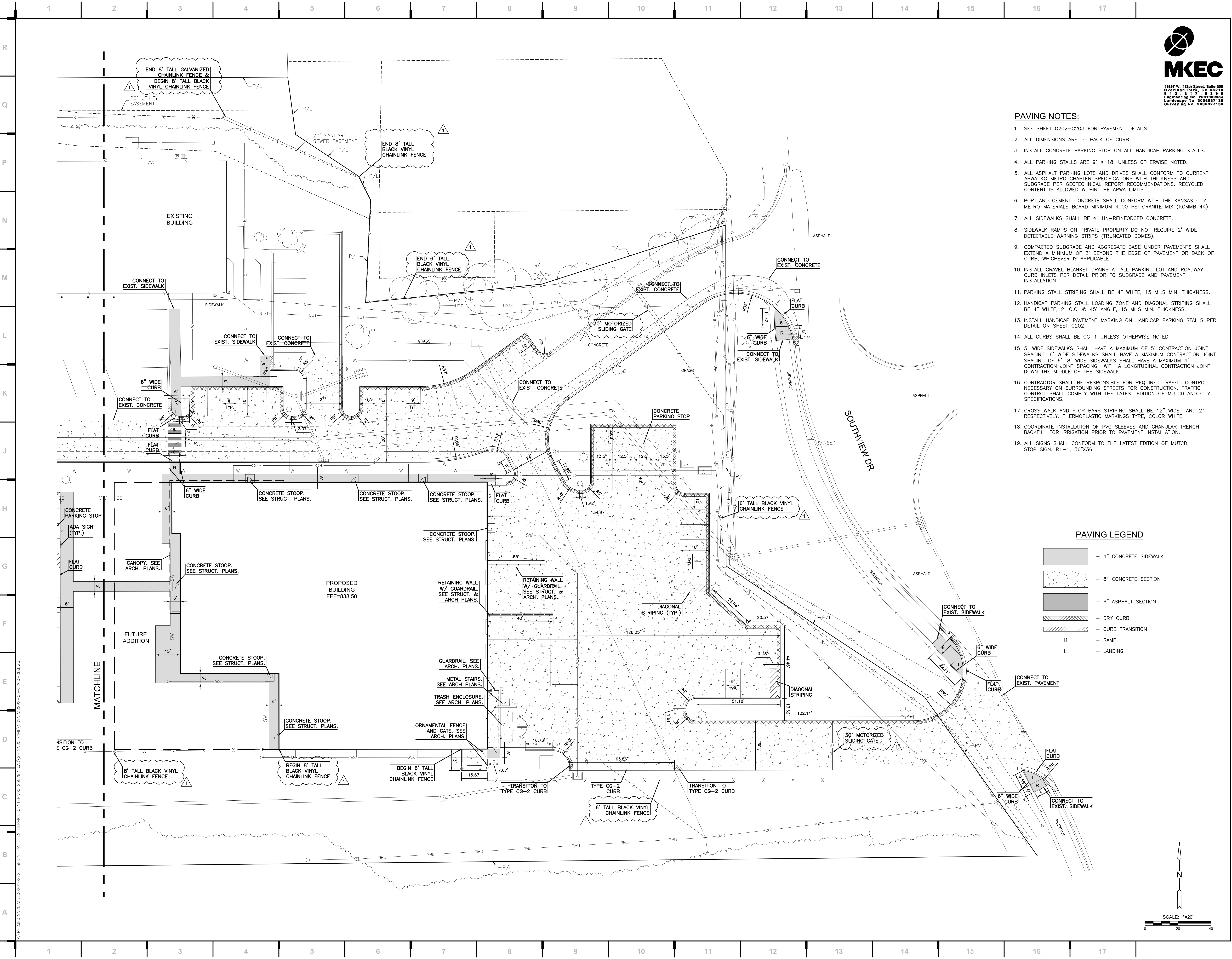
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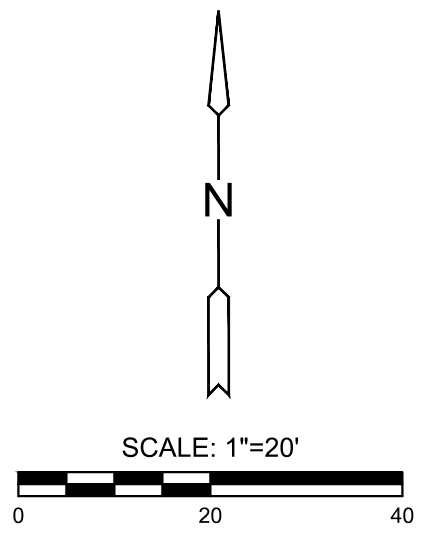
A701



- PAVING NOTES:**
1. SEE SHEET C202-C203 FOR PAVEMENT DETAILS.
 2. ALL DIMENSIONS ARE TO BACK OF CURB.
 3. INSTALL CONCRETE PARKING STOP ON ALL HANDICAP PARKING STALLS.
 4. ALL PARKING STALLS ARE 9' X 18' UNLESS OTHERWISE NOTED.
 5. ALL ASPHALT PARKING LOTS AND DRIVES SHALL CONFORM TO CURRENT APWA KC METRO CHAPTER SPECIFICATIONS WITH THICKNESS AND SUBGRADE PER GEOTECHNICAL REPORT RECOMMENDATIONS. RECYCLED CONTENT IS ALLOWED WITHIN THE APWA LIMITS.
 6. PORTLAND CEMENT CONCRETE SHALL CONFORM WITH THE KANSAS CITY METRO MATERIALS BOARD MINIMUM 4000 PSI GRANITE MIX (KCMMB 4K).
 7. ALL SIDEWALKS SHALL BE 4" UN-REINFORCED CONCRETE.
 8. SIDEWALK RAMPS ON PRIVATE PROPERTY DO NOT REQUIRE 2' WIDE DETECTABLE WARNING STRIPS (TRUNCATED DOMES).
 9. COMPACTED SUBGRADE AND AGGREGATE BASE UNDER PAVEMENTS SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB, WHICHEVER IS APPLICABLE.
 10. INSTALL GRAVEL BLANKET DRAINS AT ALL PARKING LOT AND ROADWAY CURB INLETS PER DETAIL PRIOR TO SUBGRADE AND PAVEMENT INSTALLATION.
 11. PARKING STALL STRIPING SHALL BE 4" WHITE, 15 MILS MIN. THICKNESS.
 12. HANDICAP PARKING STALL LOADING ZONE AND DIAGONAL STRIPING SHALL BE 4" WHITE, 2" O.C. @ 45° ANGLE, 15 MILS MIN. THICKNESS.
 13. INSTALL HANDICAP PAVEMENT MARKING ON HANDICAP PARKING STALLS PER DETAIL ON SHEET C202.
 14. ALL CURBS SHALL BE CG-1 UNLESS OTHERWISE NOTED.
 15. 5' WIDE SIDEWALKS SHALL HAVE A MAXIMUM OF 5' CONTRACTION JOINT SPACING. 6' WIDE SIDEWALKS SHALL HAVE A MAXIMUM CONTRACTION JOINT SPACING OF 6'. 8' WIDE SIDEWALKS SHALL HAVE A MAXIMUM 4' CONTRACTION JOINT SPACING. WITH A LONGITUDINAL CONTRACTION JOINT DOWN THE MIDDLE OF THE SIDEWALK.
 16. CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TRAFFIC CONTROL NECESSARY ON SURROUNDING STREETS FOR CONSTRUCTION. TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST EDITION OF MUTCD AND CITY SPECIFICATIONS.
 17. CROSS WALK AND STOP BARS STRIPING SHALL BE 12" WIDE AND 24" RESPECTIVELY. THERMOPLASTIC MARKINGS TYPE, COLOR WHITE.
 18. COORDINATE INSTALLATION OF PVC SLEEVES AND GRANULAR TRENCH BACKFILL FOR IRRIGATION PRIOR TO PAVEMENT INSTALLATION.
 19. ALL SIGNS SHALL CONFORM TO THE LATEST EDITION OF MUTCD. STOP SIGN: R1-1, 36"x36"

PAVING LEGEND

[Pattern]	4" CONCRETE SIDEWALK
[Pattern]	8" CONCRETE SECTION
[Pattern]	6" ASPHALT SECTION
[Pattern]	DRY CURB
[Pattern]	CURB TRANSITION
R	RAMP
L	LANDING



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C109

STR ID				DRAINAGE AREA "A"		RUNOFF COEFF "C"	RETURN FREQ.	K	A x C x K			A x C x K (100-yf)		TIME OF CONCENTRATION		RAIN "1" (IN/HR)	RAIN "100" (IN/HR)	RUNOFF "Q" (CFS)	RUNOFF "Q ₁₀₀ " (CFS)	PIPE DIA. (IN)	PIPE TYPE	LENGTH (FT)	TOP ELEV. (FEET)	INVERT ELEVATION		SLOPE (FT/FT)	Q _{FULL} (CFS)	Q _{DELT} (CFS)	VELOCITY		
LINE NO.	TYPE	FROM	TO	INC (AC)	TOTAL (AC)				INC. (AC)	TOTAL (AC)	K ₁₀₀	INC. (AC)	TOTAL (AC)	INC. (AC)	TOTAL (AC)									INLET (MIN)	SYSTEM (MIN)				U/S (FEET)	D/S (FEET)	Q _{FULL} (FPS)
2	CI	2-5	2-4	1.3	1.3	0.63	100	1.25	1.0	1.0	1.25	1.0	1.0	7.0	7.0	9.6	9.6	9.9	9.9	18	HDPE	83.29	833.39	828.89	827.22	0.0201	16.1	15.7	8.9	10.2	9.6
	MH	2-4	2-3	0.7	2.1	0.90	100	1.25	0.8	1.9	1.25	0.8	1.9	5.0	7.1	9.5	9.5	17.8	17.8	24	HDPE	338.53	831.79	826.72	811.50	0.0450	52.0	30.3	9.7	9.7	15.0
	MH	2-3	2-2	0.0	3.1	0.00	100	1.25	0.0	3.0	1.25	0.0	3.0	0.0	7.5	9.4	9.4	28.2	28.2	24	HDPE	11.56	818.08	810.00	809.00	0.0865	72.1	40.7	13.0	10.4	21.5
	MH	2-2	2-1	0.0	3.1	0.00	100	1.25	0.0	3.0	1.25	0.0	3.0	0.0	7.5	9.4	9.4	28.2	28.2	24	HDPE	59.84	814.42	808.50	804.00	0.0752	67.2	33.6	10.7	10.8	20.5
	ES		2-1																												
3	CI	3-1	2-3	1.1	1.1	0.86	100	1.25	1.1	1.1	1.25	1.1	1.1	5.0	5.0	10.3	10.3	11.8	11.8	18	HDPE	47.25	829.17	818.00	812.00	0.1270	40.6	27.6	15.6	6.6	19.9
4	FI	4-3	4-2	0.2	0.2	0.30	100	1.25	0.1	0.1	1.25	0.1	0.1	7.0	7.0	9.6	9.6	0.7	0.7	15	HDPE	39.88	836.50	833.14	832.74	0.0100	7.0	8.8	5.7	3.2	3.7
	CI	4-2	1-3		0.3															15	HDPE	28.14	836.64	832.54	831.50	0.0370	13.5	10.2	8.3	15.0	
	CI	4-1	1-3	0.4	0.4	0.80	100	1.25	0.4	0.4	1.25	0.4	0.4	5.0	5.0	10.3	10.3	4.3	4.3	15	HDPE	14.23	836.03	832.28	831.50	0.0548	16.4	9.6	7.8	5.3	11.3
5	DB	5-1	4-2	0.1	0.1	0.52	100	1.25	0.1	0.1	1.25	0.1	0.1	8.0	8.0	9.2	9.2	0.7	0.7	15	HDPE	51.89	836.40	833.26	832.74	0.0100	7.0	8.3	5.7	3.1	3.6
6	ES	6-3	6-2		0.0													18.2	18.2	18	HDPE	200.03	807.00	801.00	791.50	0.0475	24.8	19.1	10.8	11.5	15.3
	MH	6-2	6-1	0.0	0.0	0.00	100	1.25	0.0		1.25	0.0		0.0				18.2	18.2	18	HDPE	62.44	800.49	791.00	785.55	0.0873	33.6	25.2	14.2	9.4	19.4
	ES		6-1																				780.00	785.55							



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2021001896

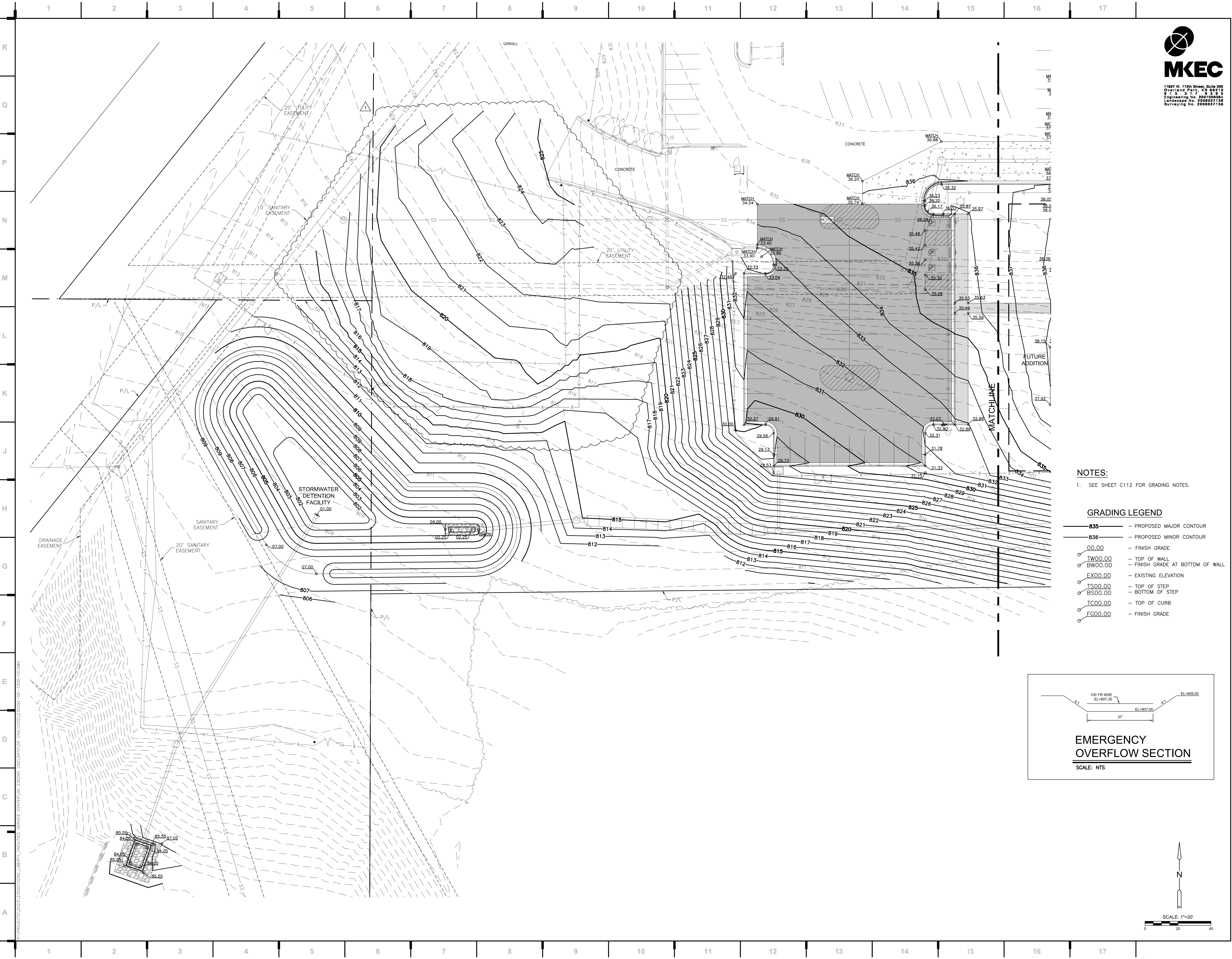
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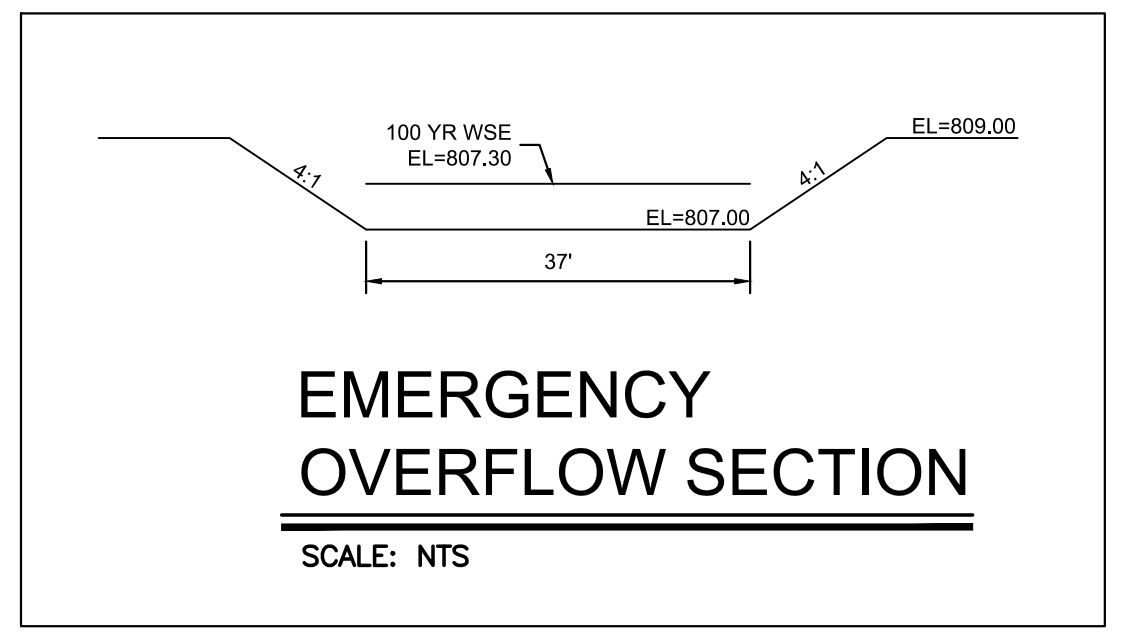
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NOTES:

- SEE SHEET C112 FOR GRADING NOTES.

GRADING LEGEND

- 835 — PROPOSED MAJOR CONTOUR
- 836 — PROPOSED MINOR CONTOUR
- 00.00 — FINISH GRADE
- TW00.00 — TOP OF WALL
- BW00.00 — FINISH GRADE AT BOTTOM OF WALL
- EX00.00 — EXISTING ELEVATION
- TS00.00 — TOP OF STEP
- BS00.00 — BOTTOM OF STEP
- TC00.00 — TOP OF CURB
- FG00.00 — FINISH GRADE



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C112



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Landscape No. 2008027138
Surveying No. 2008027138

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NOTES:
1. SEE SHEET C113 FOR EROSION CONTROL NOTES.

EROSION CONTROL LEGEND

- INLET PROTECTION
- SILT FENCE
- CONSTRUCTION ENTRANCE
- RIP RAP
- NORTH AMERICAN GREEN S150 TURF REINFORCEMENT MAT
- NORTH AMERICAN GREEN C350 TURF MAT
- DITCH CHECK
- TREE PROTECTION
- CONSTRUCTION LIMITS
- FLOW PATH
- STAGING CHART REFERENCE NUMBER

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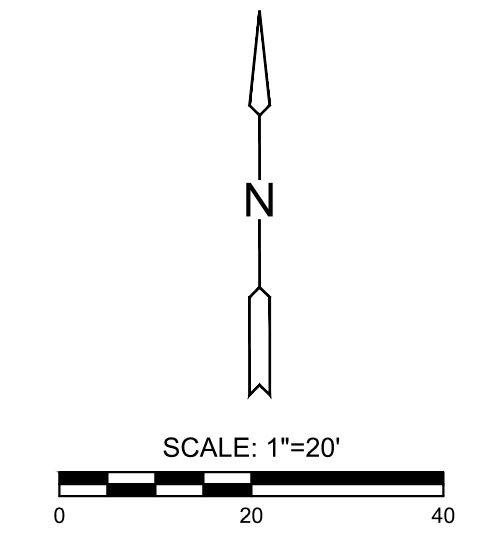
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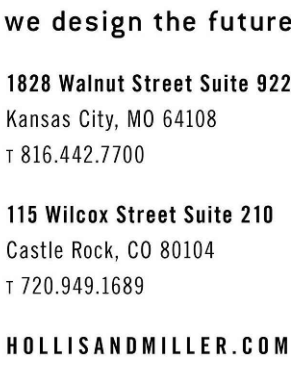
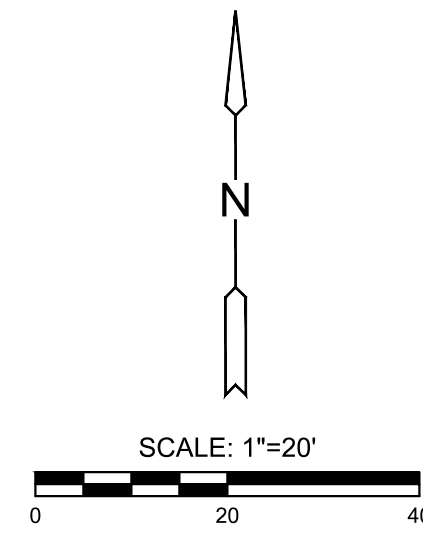
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e-mail: Miller Architects
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 Structure # 2000031333

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 Surveying: 20060027138
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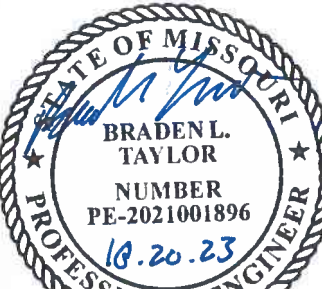
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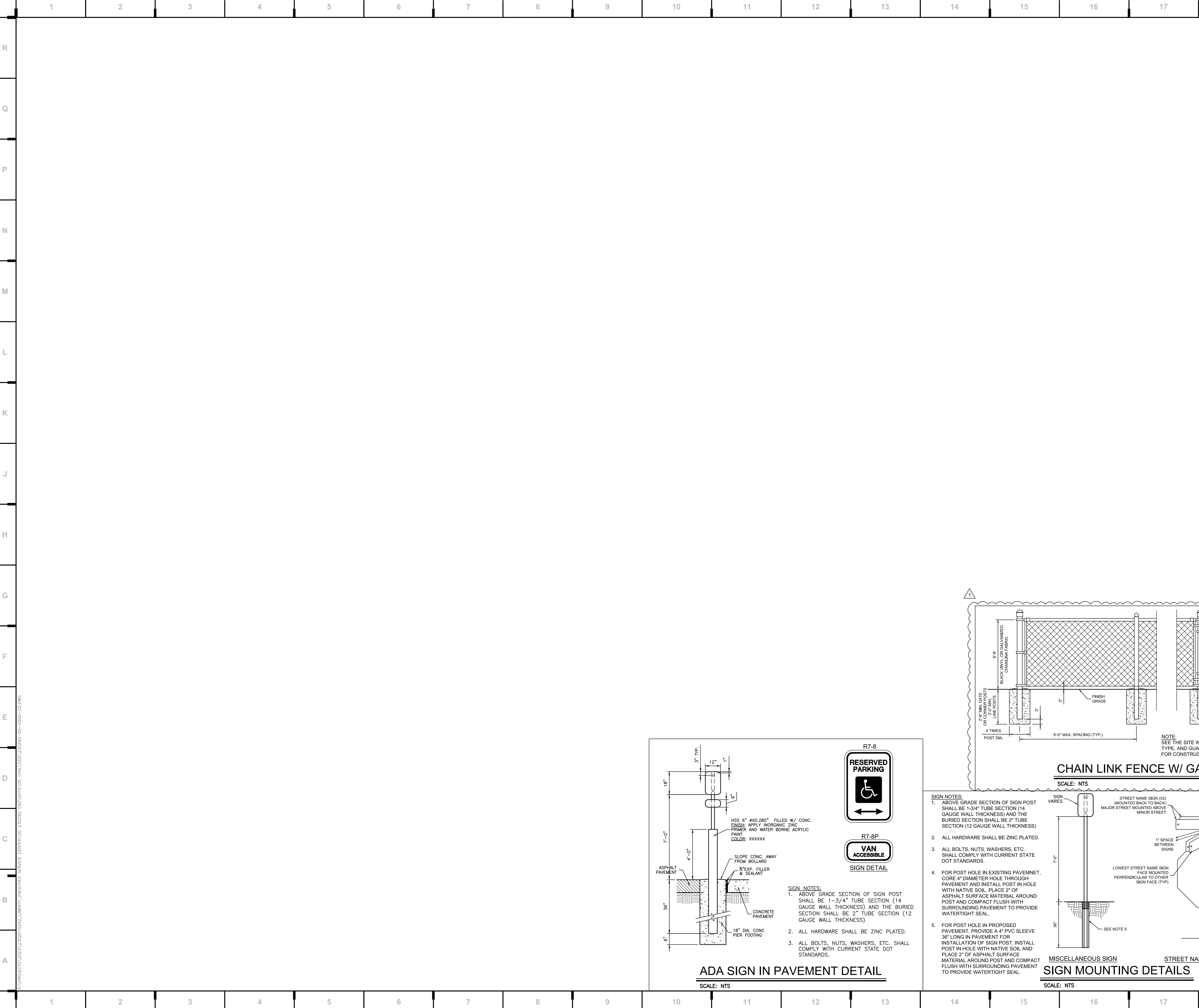
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C110



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Surveying No. 2008027138

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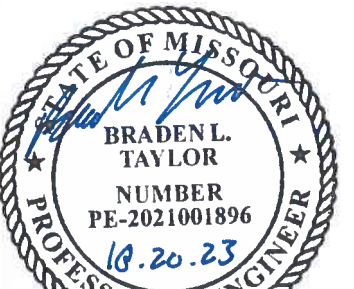
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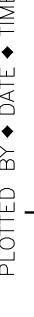
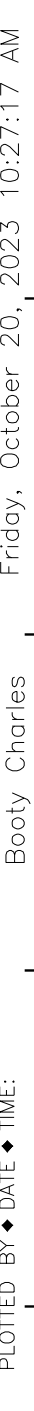


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C203

PAVING DETAILS 2



smith & boucher
engineers

25618 west 103rd St. olathe, ks 66061
phone 913.345.2127 fax 913.345.0611
project number 2314705

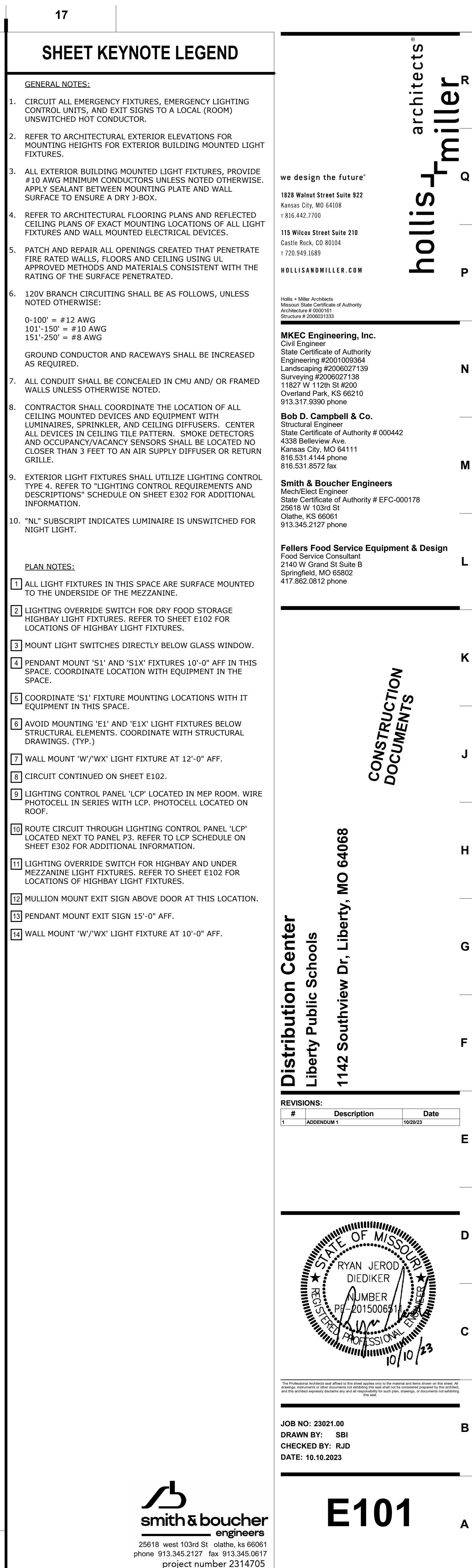
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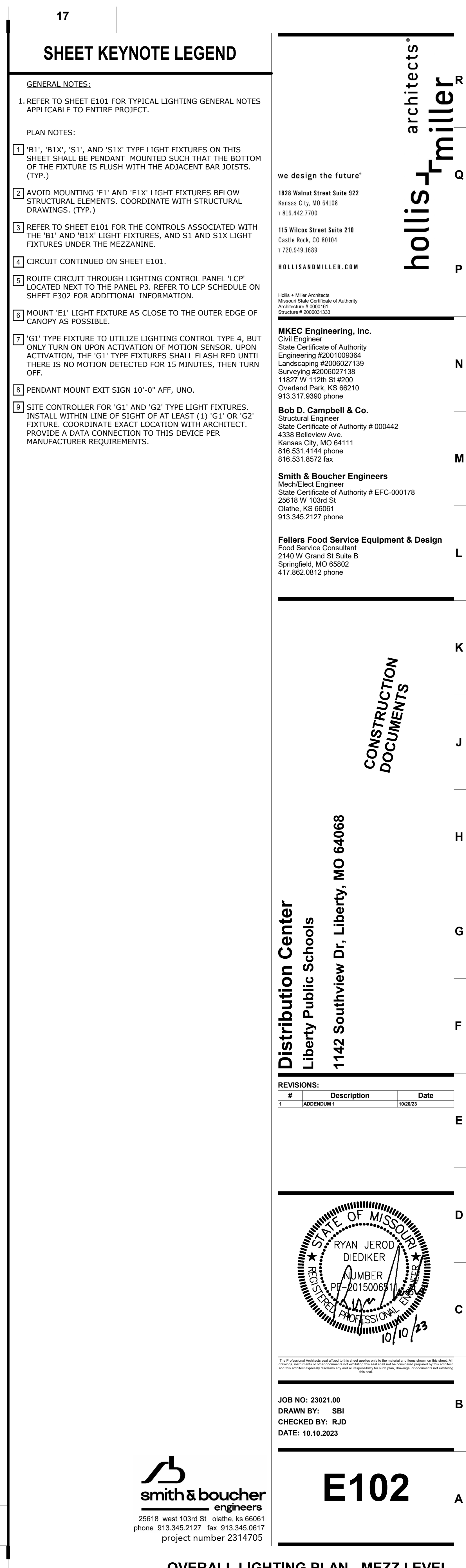
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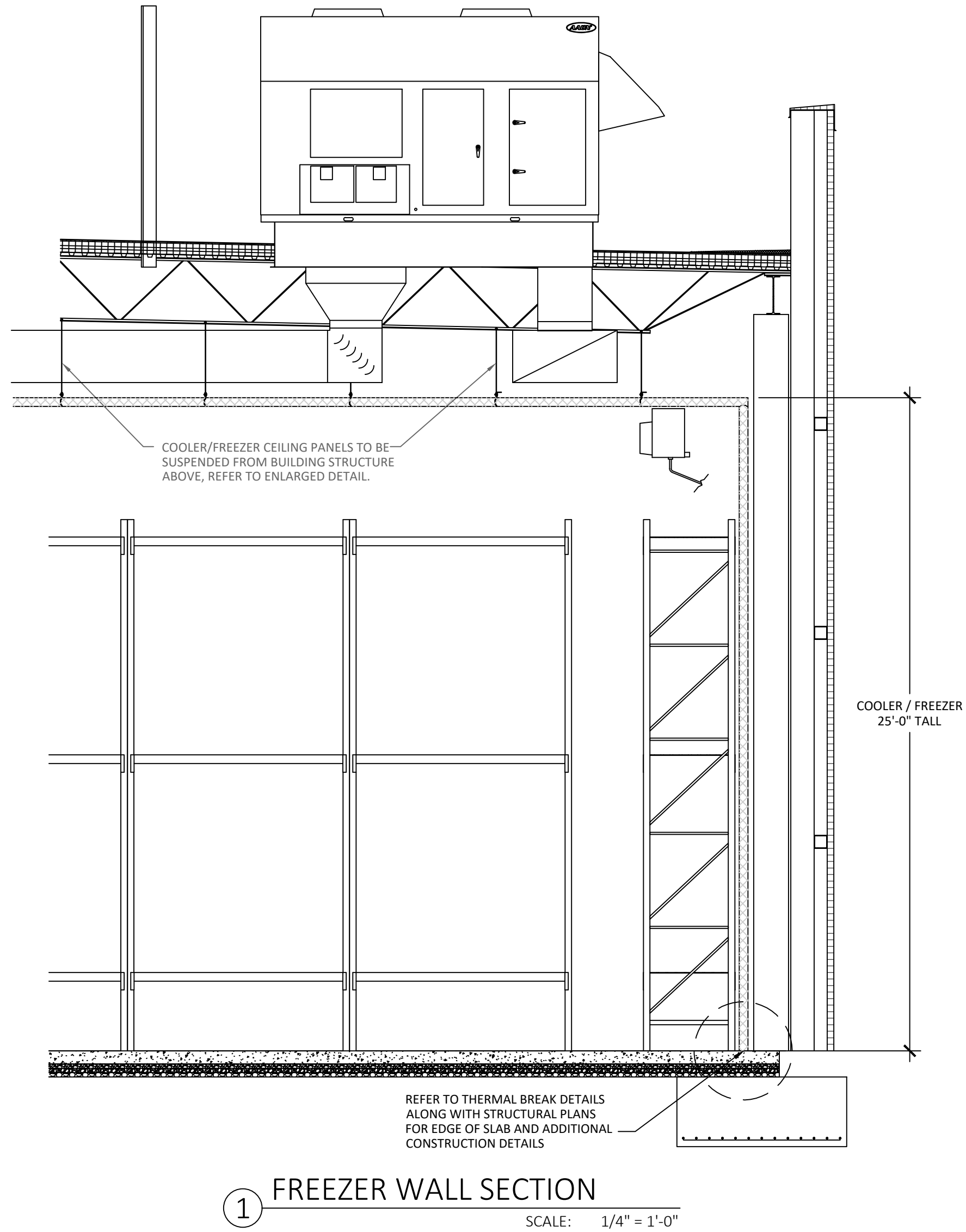
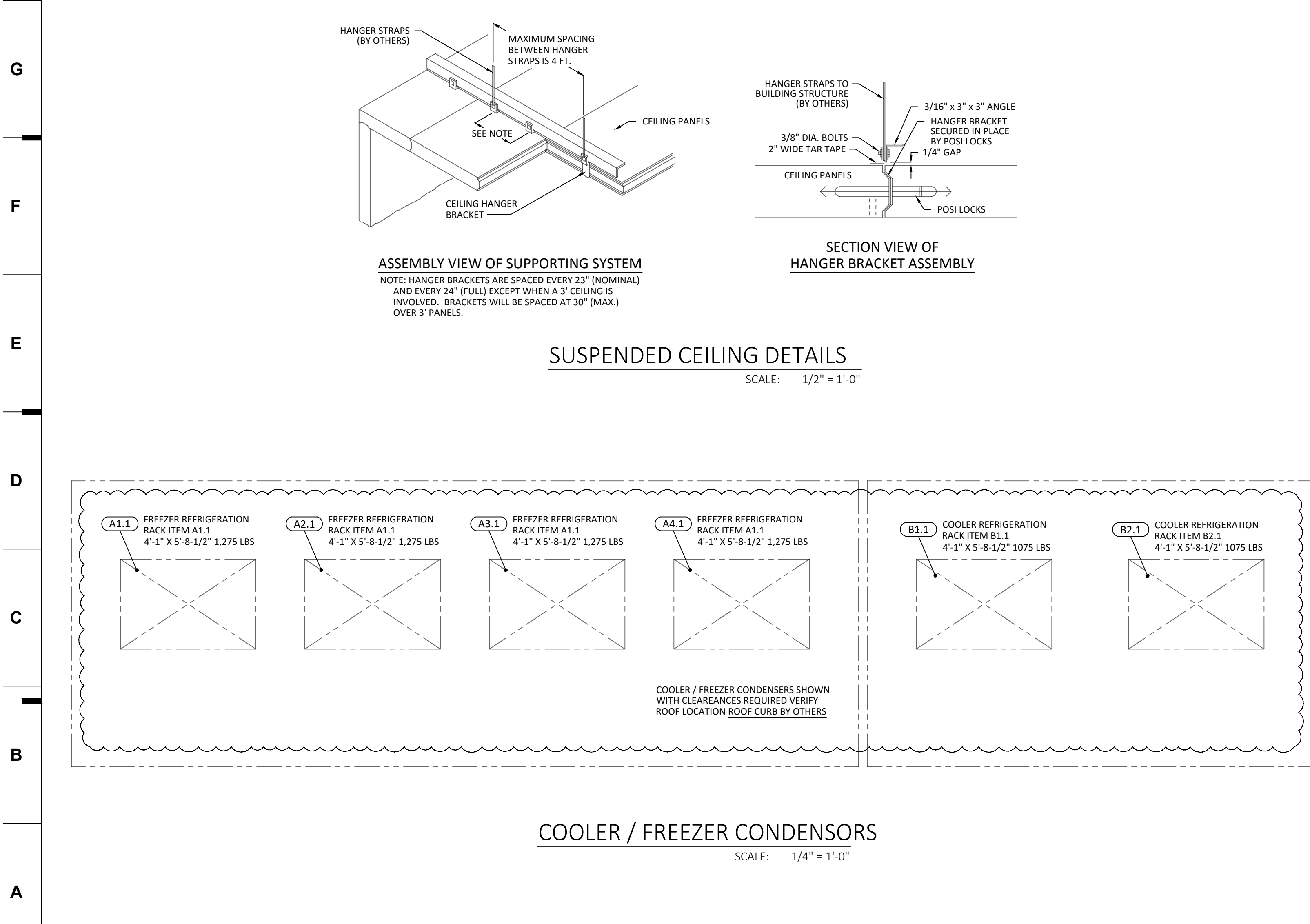
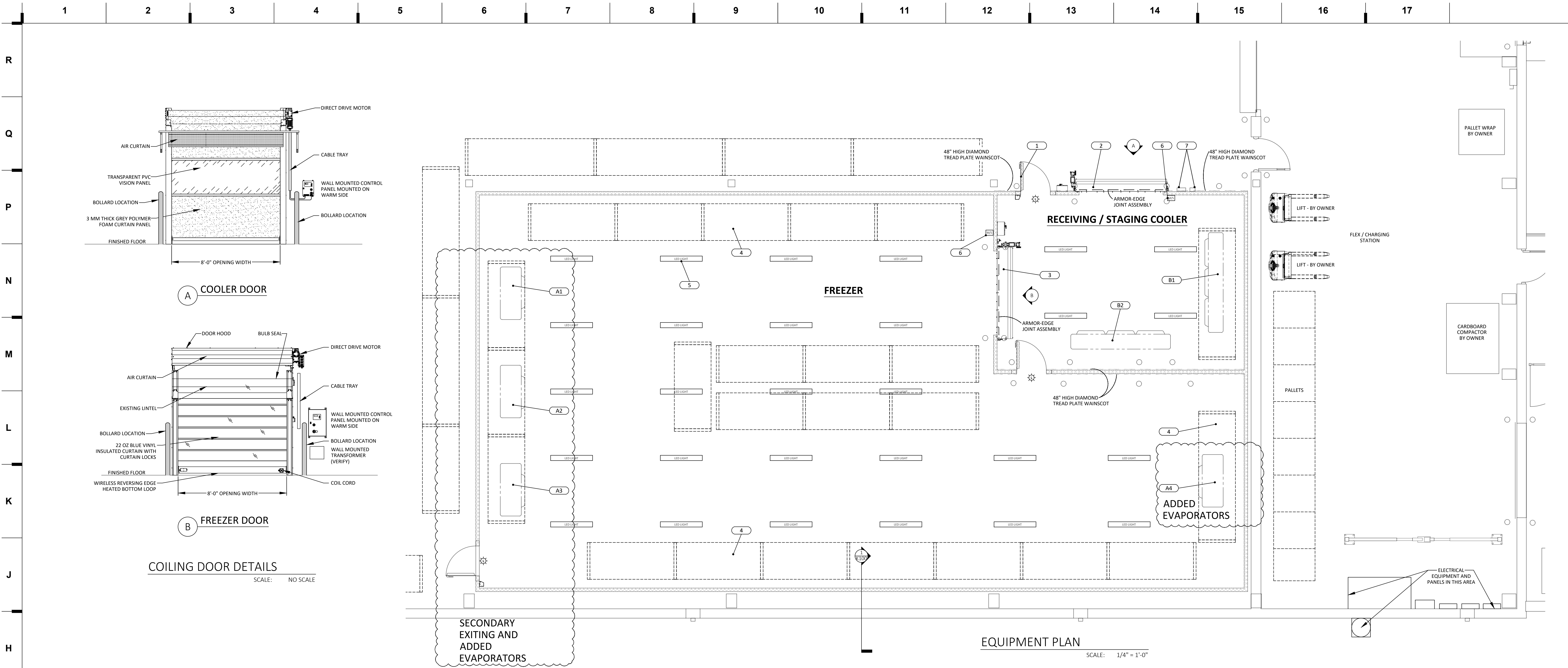
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Liberty Public Schools
Bobby Charles

Project Name: Liberty Public Schools
Drawing File Location: \\libertypublicschools\Drawings\06-2314705-E304.dwg
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Printed By: DATE: TIME: 10/20/23 10:29:11 AM
Liberty Public Schools
Bobby Charles

PANEL EDP				EQUIPMENT GROUND BUS				
MAIN BUS AMPS:		600 A		AIC:		65,000 A		
MAIN BREAKER:		500 A		SECTIONS:		1 - 42 SPACE		
VOLTAGE:		208Y/120 V		MOUNTING:		SURFACE		
PHASES/WIRES:		3 PH / 4 W		ENCLOSURE TYPE:		NEMA 1		
CIRCUIT DESCRIPTION		POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
FREEZER EVAPORATOR COIL HEATER	3	30	1	2	30	3	FREEZER EVAPORATOR COIL HEATER	
			3	4				
			5	6				
			7	8				
COOLER CONTROL PANEL	3	45	9	10	45	3	COOLER CONTROL PANEL	
			11	12				
			13	14				
			15	16				
WALK-IN FREEZER CONTROL PANEL	3	60	17	18	60	3	WALK-IN FREEZER CONTROL PANEL	
			19	20				
			21	22				
			23	24				
PANEL 'EP'	3	150	25	26	60	3	WALK-IN FREEZER CONTROL PANEL	
			27	28				
			29	30				
			31	32				
FREEZER EVAPORATOR COIL HEATER	3	30	33	34	60	3	WALK-IN FREEZER CONTROL PANEL	
			35	36				
			37	38				
			39	40				
FREEZER EVAPORATOR COIL HEATER	3	30	41	42		1	PREPARED SPACE	
PREPARED SPACE	1					1	PREPARED SPACE	
PREPARED SPACE	1					1	PREPARED SPACE	
PREPARED SPACE	1					1	PREPARED SPACE	







EQUIPMENT SCHEDULE			
R	ITEM NO	QTY	EQUIPMENT CATEGORY
-	1	1	WALK-IN COOLER / FREEZER
-	2	1	ROLL-UP COOLER DOOR
-	3	1	ROLL-UP FREEZER DOOR
-	4	LOT	WAREHOUSE SHELVING - BY OWNER
-	5	28	LIGHT - CEILING MOUNTED
-	6	2	MOTION SENSOR - LIGHTING
-	7	1	FLOOR WARMING SYSTEM
-	A1	1	EVAPORATOR COIL - FREEZER
-	A1.1	1	CONDENSING UNIT - FREEZER
-	A2	1	EVAPORATOR COIL - FREEZER
-	A2.1	1	CONDENSING UNIT - FREEZER
10-20	A3	1	EVAPORATOR COIL - FREEZER
10-20	A3.1	1	CONDENSING UNIT - FREEZER
10-20	A4	1	EVAPORATOR COIL - FREEZER
10-20	A4.1	1	CONDENSING UNIT - FREEZER
-	B1	1	EVAPORATOR COIL - COOLER
-	B1.1	1	CONDENSING UNIT - COOLER
-	B2	1	EVAPORATOR COIL - COOLER
-	B2.1	1	CONDENSING UNIT - COOLER

- GENERAL NOTES**
- IT SHALL BE NOTED BY THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS THAT THIS SET OF PLANS AND THE INFORMATION CONTAINED WITHIN IN NO WAY RELIEVES SAID PARTIES OF THEIR RESPONSIBILITY TO INVESTIGATE AND COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES AND TO PERFORM ALL WORK TO THE HIGHEST STANDARDS.
 - IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS TO VERIFY THE ACTUAL SPACE AND MECHANICAL REQUIREMENTS OF ALL ITEMS SHOWN AS FUTURE, NIC, SUPPLIED BY "OTHERS", ETC., WITH THE OWNER PRIOR TO ROUGH-IN AND CONNECTION.
 - IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO IMMEDIATELY NOTIFY THE KITCHEN EQUIPMENT CONTRACTOR IN WRITING OF ANY CHANGES TO THE BUILDING THAT AFFECT EQUIPMENT AT PLACEMENT AND SIZES (I.E. WALL CHANGES, WATER HEATER LOCATIONS, ELECTRICAL PANELS, ETC.).
 - SUITABLE WALL BRACING AS SHOWN ON THESE PLANS AND AS REQUIRED BY THE OWNER SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
 - THE GENERAL CONTRACTOR SHALL PROVIDE FLOOR, WALL, CEILING AND ROOF PENETRATIONS, INCLUDING, BUT NOT LIMITED TO THOSE REQUIRED FOR: MAKE-UP AIR, CLASS II EXHAUST DUCTS, FIRE-RATED SHAFTS FOR CLASS I EXHAUST DUCTS.
 - THE GENERAL CONTRACTOR SHALL PROVIDE CONDUIT AND SLEEVES FOR REFRIGERATION LINES AND DATA LINES. CONDUIT SHALL BE CIRCULAR PVC EQUAL TO THE DIAMETER INDICATED ON PLANS. ALL BENDS SHALL HAVE A MINIMUM RADIUS OF TWENTY-FOUR INCHES.
 - THE GENERAL CONTRACTOR SHALL PROPERLY SEAL ALL WALL AND FLOOR PENETRATIONS AFTER THE INSTALLATION OF RELATED EQUIPMENT AND FURNISHING ITEMS.
 - ALL DIMENSIONS SHOWN ARE FROM FACE OF FINISHED WALL OR FLOOR.
 - ALL UTILITY ROUGH-INS SHOWN ON THESE PLANS ARE SUBJECT TO CHANGE PENDING FINAL EQUIPMENT SELECTION AND LOCATION.
 - ALL UTILITY ROUGH-INS, FINAL CONNECTIONS, AND HOOK-UPS SHALL BE PROVIDED AND PERFORMED BY THE RESPECTIVE LICENSED SUB-CONTRACTORS IN COMPLIANCE WITH APPLICABLE NATIONAL AND LOCAL CODES.
 - SEISMIC BRACING INFORMATION, IF REQUIRED, IS NOT INDICATED ON THESE PLANS NOR IS IT PROVIDED BY THE KITCHEN EQUIPMENT CONTRACTOR UNLESS OTHERWISE SPECIFIED HEREIN.
 - WHERE EQUIPMENT PRODUCES NOISE THAT MAY VIBRATE THROUGH WALLS TO ANY PUBLIC AND/OR DINING AREAS, THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE SOUND PROOFING IN WALLS.

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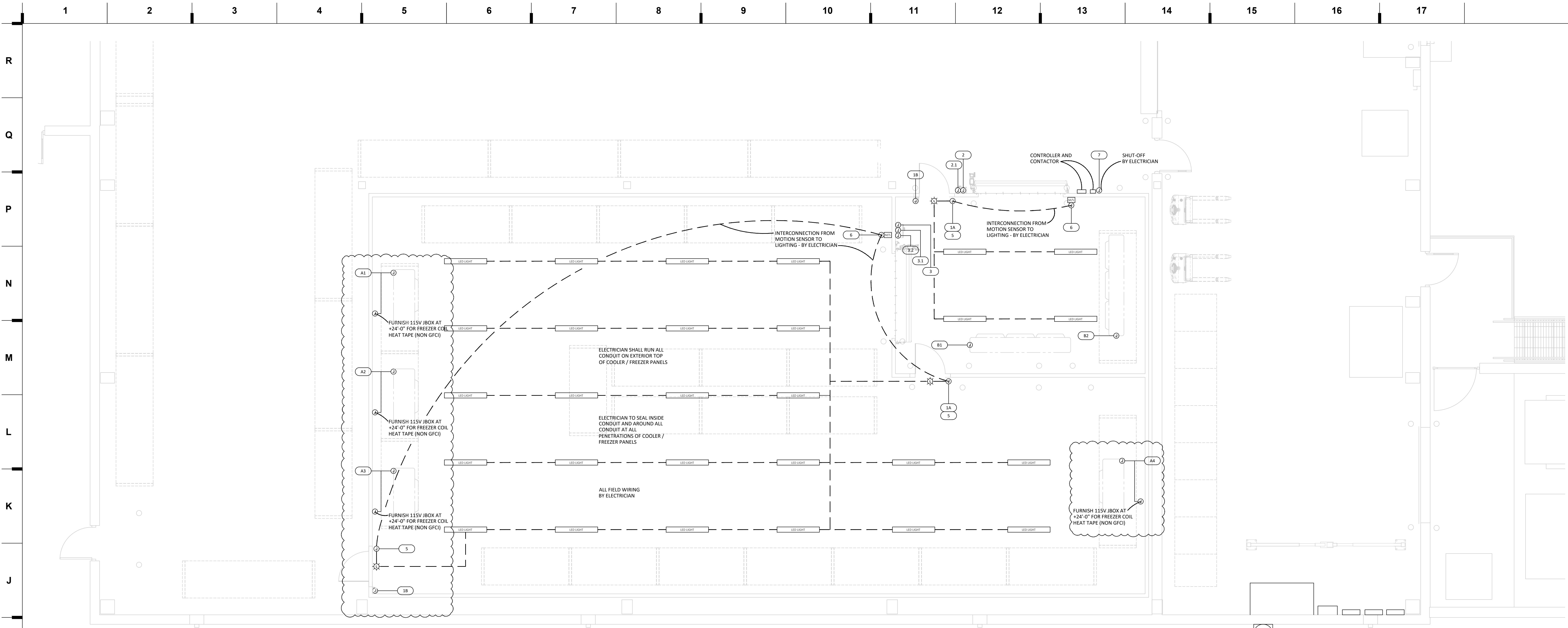
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Springfield, MO 65802
417.862.0612 phone

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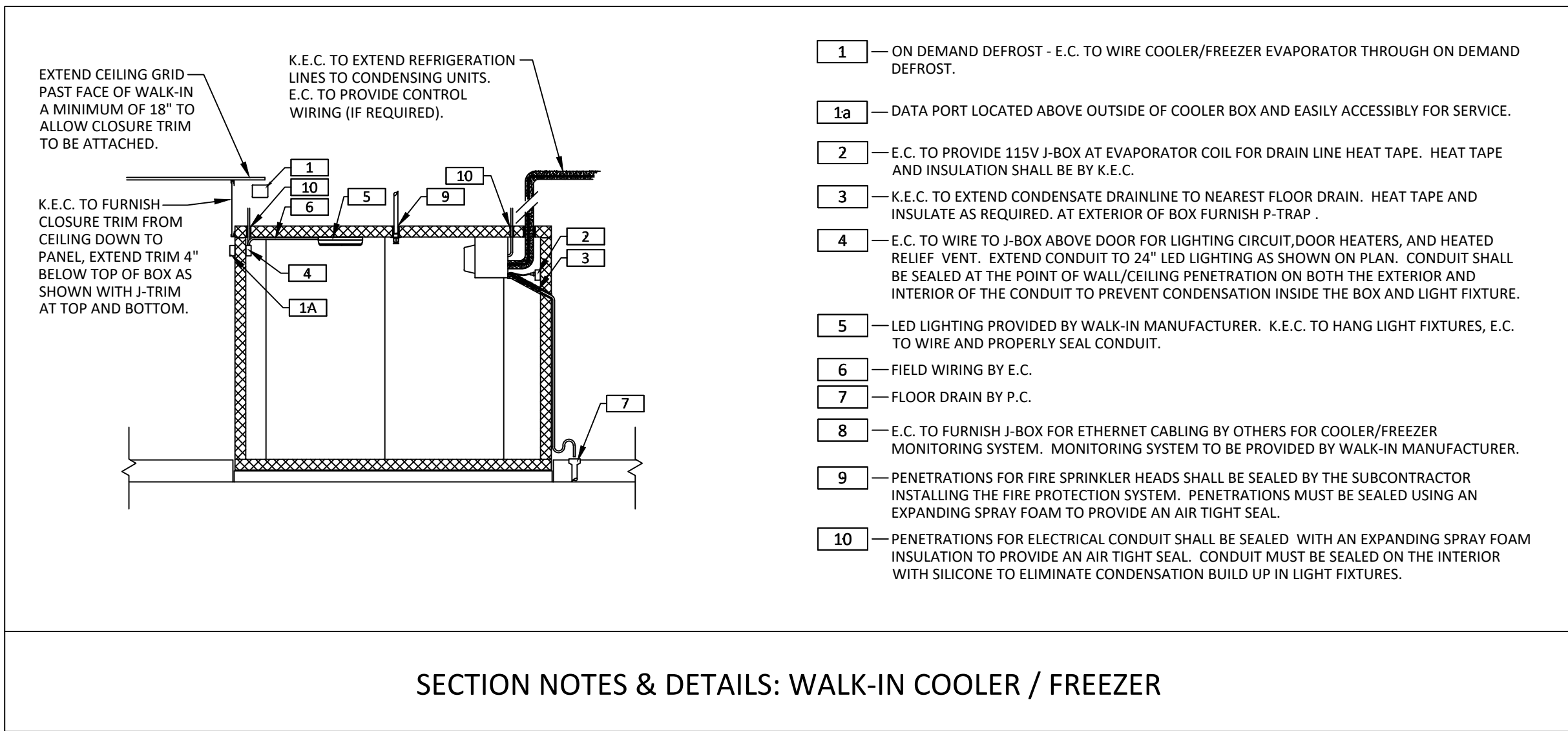
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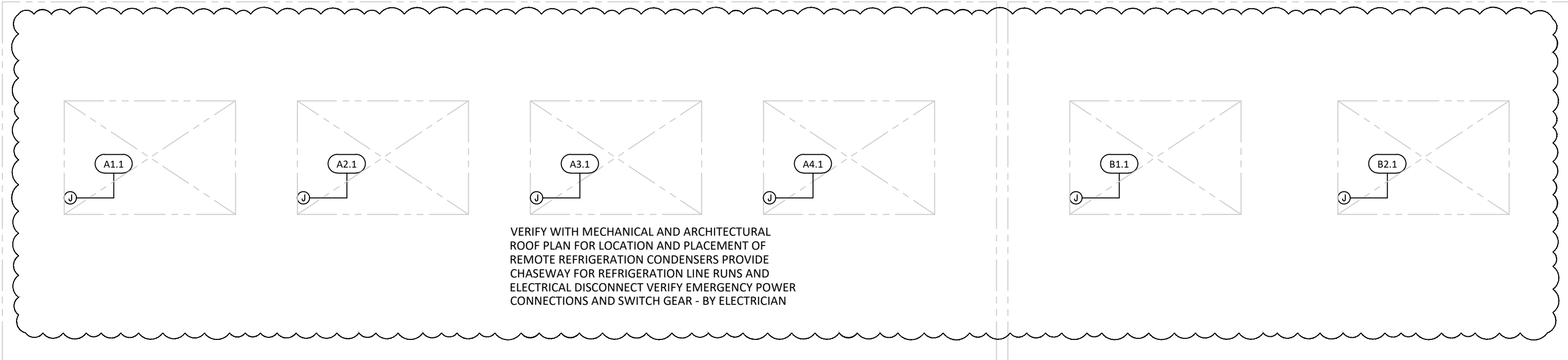


ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



SECTION NOTES & DETAILS: WALK-IN COOLER / FREEZER

ELECTRICAL SCHEDULE										
R	ITEM NO	QTY	EQUIPMENT CATEGORY	VOLTS	PH	AMPS	HP	AFF	CONN.	ELECTRIC COMMENTS
-	1A	1	WALK-IN COOLER / FREEZER	2 @ 115	1	8.0 EA	-	25'-0"	JBOX	DOOR LIGHTS, HEATED VENTS, AND THRESHOLDS
10-20	1B	2	AIR SHIELD	2 @ 115	1	2 @ 1.4	1/25	96"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
-	2	1	ROLL UP DOOR - COOLER	208	3	13.3	-	42"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
-	2.1	1	AIR CURTAIN @ ROLL UP DOOR - COOLER	208	1	7.2	2 @ 3/4	42"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
-	3	1	ROLL UP DOOR - FREEZER	208	3	5.3	-	42"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
-	3.1	1	AIR CURTAIN @ ROLL UP DOOR - FREEZER	208	1	7.2	2 @ 3/4	42"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
-	3.2	1	DOOR HEATER @ ROLL UP DOOR - FREEZER	115	1	15.0	-	42"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
-	5	28	LIGHT - CEILING MOUNTED	28 @ 115	1	0.5 EA	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
-	6	2	MOTION SENSOR - LIGHTS	2 @ 115	1	1.0 EA	-	96"	JBOX	INTERCONNECTION TO CEILING MOUNTED LIGHTING - BY ELECTRICIAN
-	7	1	FLOOR WARMING SYSTEM	115 / 208	1	20.0	-	48"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
10-20	A1	1	EVAPORATOR COIL - FREEZER	208	3	20.5	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
10-20	A1.1	1	CONDENSING UNIT - FREEZER	208	3	37.2	10	ROOF	JBOX	VERIFY ROOF LOCATION WITH ARCHITECTURAL PLANS
10-20	A2	1	EVAPORATOR COIL - FREEZER	208	3	20.5	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
10-20	A2.1	1	CONDENSING UNIT - FREEZER	208	3	37.2	10	ROOF	JBOX	VERIFY ROOF LOCATION WITH ARCHITECTURAL PLANS
10-20	A3	1	EVAPORATOR COIL - FREEZER	208	3	20.5	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
10-20	A3.1	1	CONDENSING UNIT - FREEZER	208	3	37.2	10	ROOF	JBOX	VERIFY ROOF LOCATION WITH ARCHITECTURAL PLANS
10-20	A4	1	EVAPORATOR COIL - FREEZER	208	3	20.5	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
10-20	A4.1	1	CONDENSING UNIT - FREEZER	208	3	37.2	10	ROOF	JBOX	VERIFY ROOF LOCATION WITH ARCHITECTURAL PLANS
-	B1	1	EVAPORATOR COIL - COOLER	115	1	9.6	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
-	B1.1	1	CONDENSING UNIT - COOLER	208	3	35.8	6	ROOF	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
-	B2	1	EVAPORATOR COIL - COOLER	115	1	9.6	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN
-	B2.1	1	CONDENSING UNIT - COOLER	208	3	35.8	6	ROOF	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN



ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
⊕	JUNCTION BOX
Ⓛ	DUPLEX OUTLET (DCO)
Ⓢ	208 VOLT OUTLET (SCO)
Ⓢ	115/208 VOLT OUTLET
Ⓢ	ELECTRICAL STUB
Ⓢ	SWITCH
Ⓢ	LIGHT FIXTURE
Ⓢ	FIELD CONNECTION BY ELECTRICIAN
Ⓢ	P.O.S. NETWORK CONNECTION *
Ⓢ	PHONE
Ⓢ	20.0 AMP CONVENIENCE OUTLET * 16"
Ⓢ	20.0 AMP CONVENIENCE OUTLET * 48"
Ⓢ	20.0 AMP CONVENIENCE OUTLET * 54"
Ⓢ	BEVERAGE LINE PVC STUB-UP
Ⓢ	REFRIGERATION CONNECTION
Ⓢ	P.O.S. SYSTEM - BY OWNER / VENDOR
Ⓢ	PROVIDE (2) 115 VOLT OUTLETS 4.0 AMPS, PHONE LINE AND "HOME RUN" TO DATA COLLECTION STATION REQUIREMENTS.

ELECTRICAL NOTES

1. ALL ELECTRICAL ROUGH-IN WORK AND FINAL CONNECTIONS TO ALL FOOD SERVICE AND RELATED EQUIPMENT AS SHOWN ON THE KITCHEN EQUIPMENT CONTRACTOR'S PLANS TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR PER NATIONAL AND LOCAL CODES.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL STAINLESS STEEL OUTLET AND RECEPTACLE COVERS IN SERVICE AREAS.
3. THE ELECTRICAL CONNECTIONS, SPECIFICATIONS AND DIMENSIONS SHOWN ON THESE PLANS ARE FOR FOOD SERVICE EQUIPMENT ONLY. SEE THE ARCHITECT'S PLAN SET FOR ADDITIONAL ELECTRICAL REQUIREMENTS TO INCLUDE OFFICE, MENU BOARDS, TELEPHONE AND DATA LINES, ETC.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FUSED DISCONNECTS FOR EQUIPMENT HOOK-UPS AS REQUIRED BY CODE AND LABELING.
5. ALL ELECTRICAL ROUGH-IN WORK AND ALL FINAL CONNECTIONS FOR ALL ITEMS SHOWN AND SPECIFIED ON THESE PLANS BY FELLERS FOOD SERVICE EQUIPMENT SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR.
6. UNLESS OTHERWISE SPECIFIED IN THESE PLANS OR OTHER WRITTEN CONTRACTS, IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL ELECTRICAL TYPE MATERIALS INCLUDING, BUT NOT LIMITED TO: WIRING, SWITCHES, DISCONNECTS, FLEX, CONDUIT, CONTRACTORS, TRANSFORMERS, THERMAL OVERLOAD PROTECTORS, MAGNETIC STARTERS, SHUNT TRIP BREAKERS, ELECTRICAL PANELS, CORDS, PLUGS, COVERS, ETC.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE THE KITCHEN EQUIPMENT CONTRACTOR WITH ELECTRICAL PANEL(S) SIZE AND LOCATION ALONG WITH AVAILABLE VOLTAGE AND PHASE.
8. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS FOR WALK-IN REFRIGERATORS AND FREEZERS INCLUDING, BUT NOT LIMITED TO: DEFROST CIRCUITS AND INTERCONNECTIONS BETWEEN REMOTE COMPRESSORS AND INTERIOR MOUNTED EVAPORATOR COILS. ELECTRICAL SHALL ALSO PROVIDE DISCONNECTS AND THERMO-OVERLOAD PROTECTION FOR COMPRESSORS.
9. ELECTRICAL CONTRACTOR TO FURNISH 120V NON-GFCI OUTLET IN COOLER/FREEZER FOR HEAT TAPE.
10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EITHER CORD AND PLUG CONNECTIONS ON DISCONNECT AS SPECIFIED FOR ICE MACHINE MAKER.
11. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE INTERCONNECT SWITCHING BETWEEN THE KITCHEN HOOD EXHAUST FANS AND THE KITCHEN MAKE-UP AIR SYSTEMS AS REQUIRED PER LOCAL CODE AND AUTHORITIES.
12. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ELECTRICAL SHUNT TRIP BREAKER ON ALL ELECTRICAL OUTLETS, JUNCTION BOXES, ETC. LOCATED UNDER ANY CLASS I EXHAUST HOOD SO AS TO DISCONNECT UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM.
13. ELECTRICAL CONTRACTOR SHALL VERIFY REQUIREMENTS OF CASH REGISTERS, PRINTERS, COMPUTERS, SOUND SYSTEM, ETC. INCLUDING CONDUIT RUNS AND DEDICATED / ISOLATED OUTLET REQUIREMENTS.
14. ALL DIMENSIONS SHOWN ARE FROM GRID LINES, FINISHED WALLS OR FINISHED FLOORS TO CENTER LINE OF ELECTRICAL OUTLET BOXES. HEIGHTS ARE NOT TO BE TAKEN FROM CURBS OR PLATFORMS.
15. ELECTRICAL CONTRACTOR TO FURNISH EMERGENCY SHUT OFF'S AS REQUIRED FOR PRESSURE VESSELS (I.E. KETTLES, STEAMERS, BOILERS).

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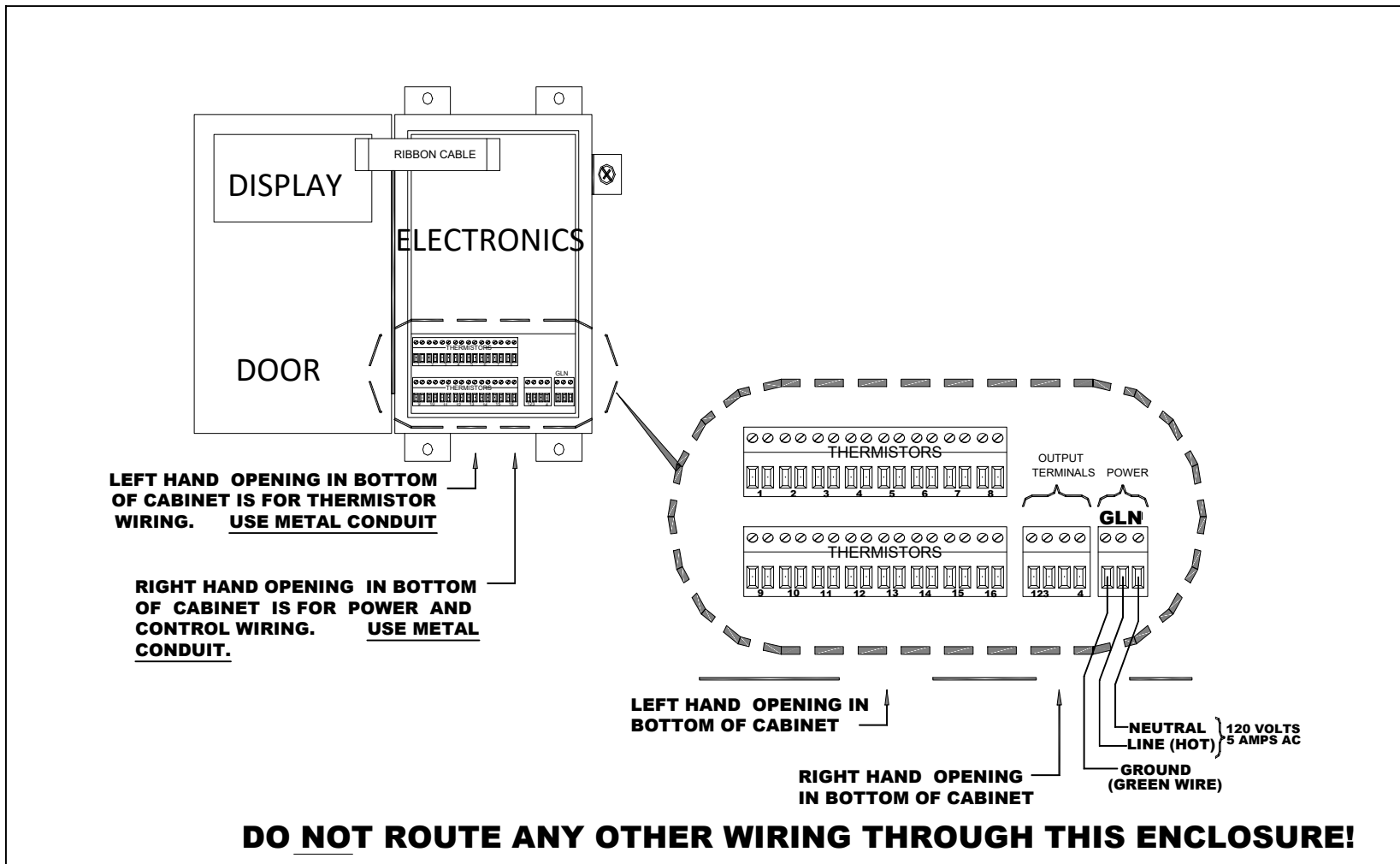


Figure 4: Power Wiring Pictorial

*NOT TO SCALE

WIRE DIAGRAM #1

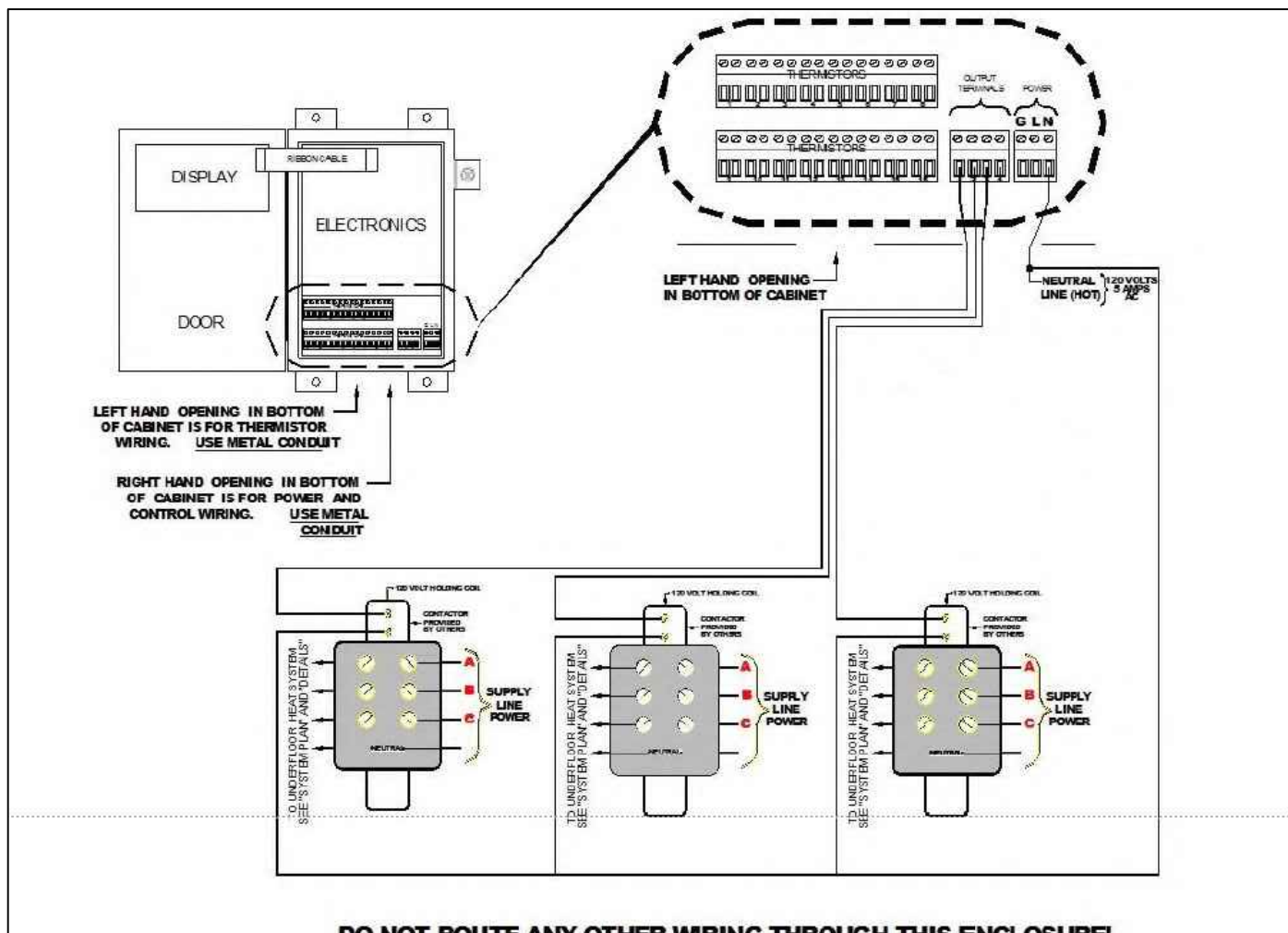
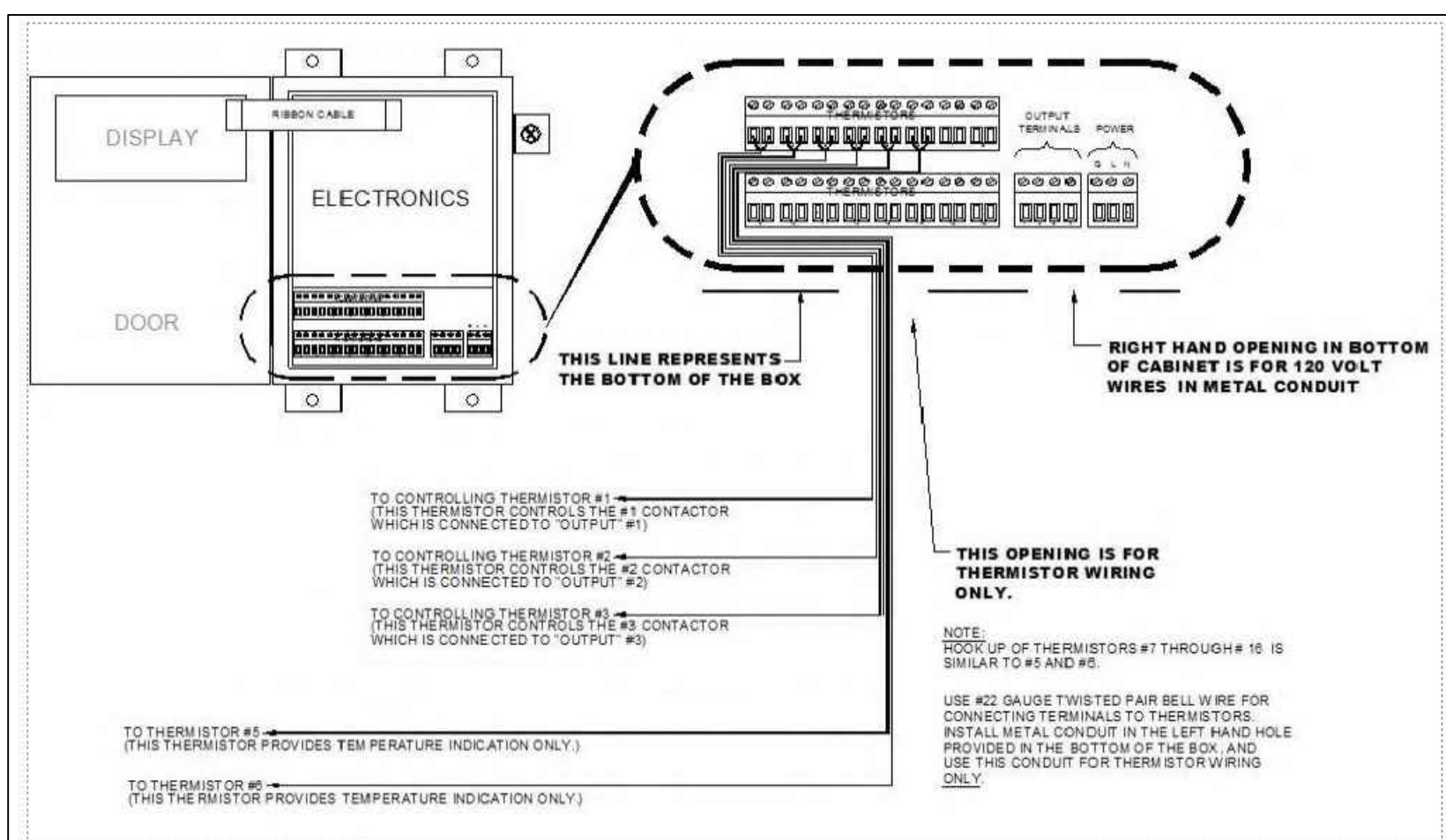
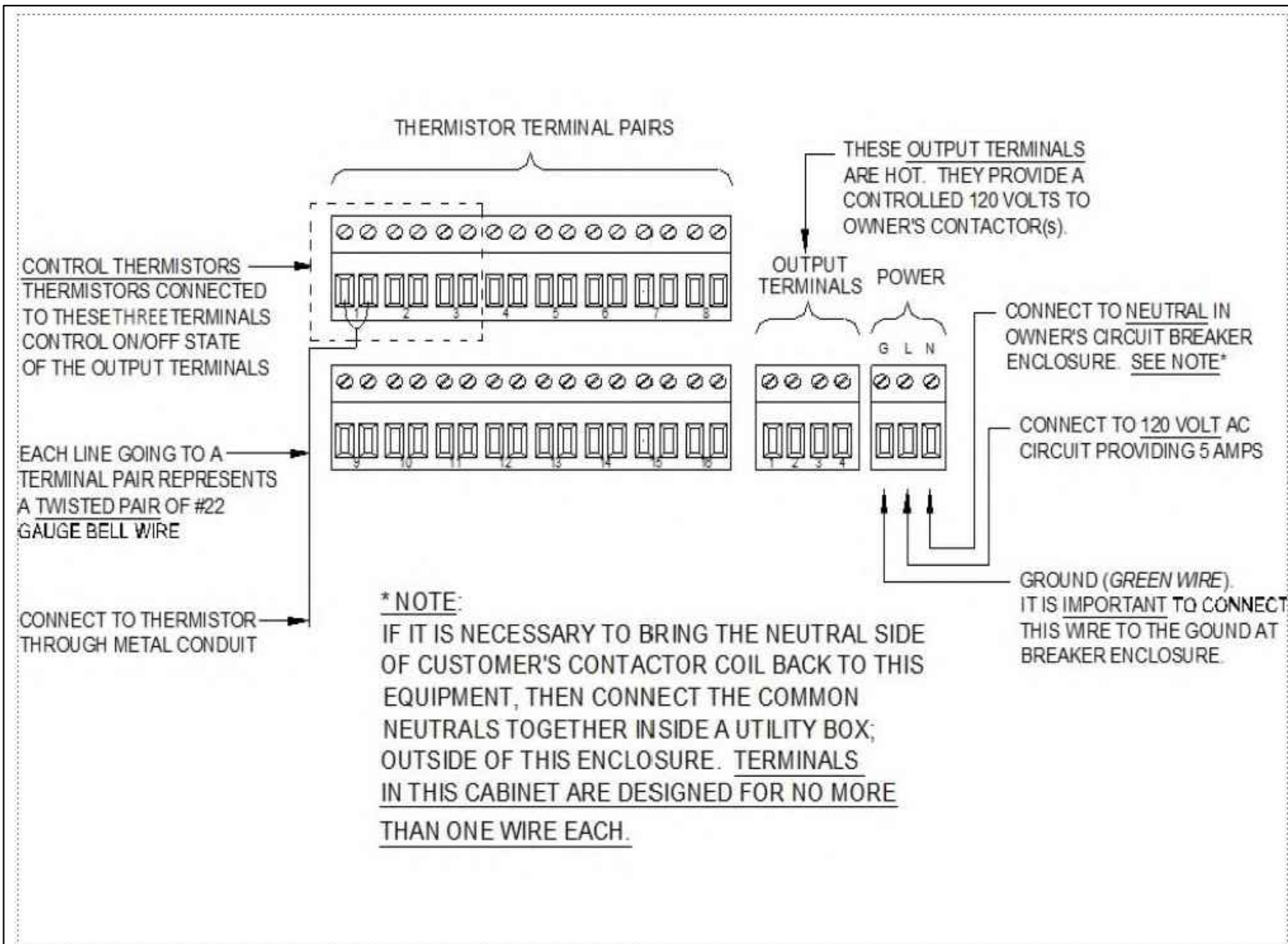


Figure 5: Contactor Wiring Pictorial

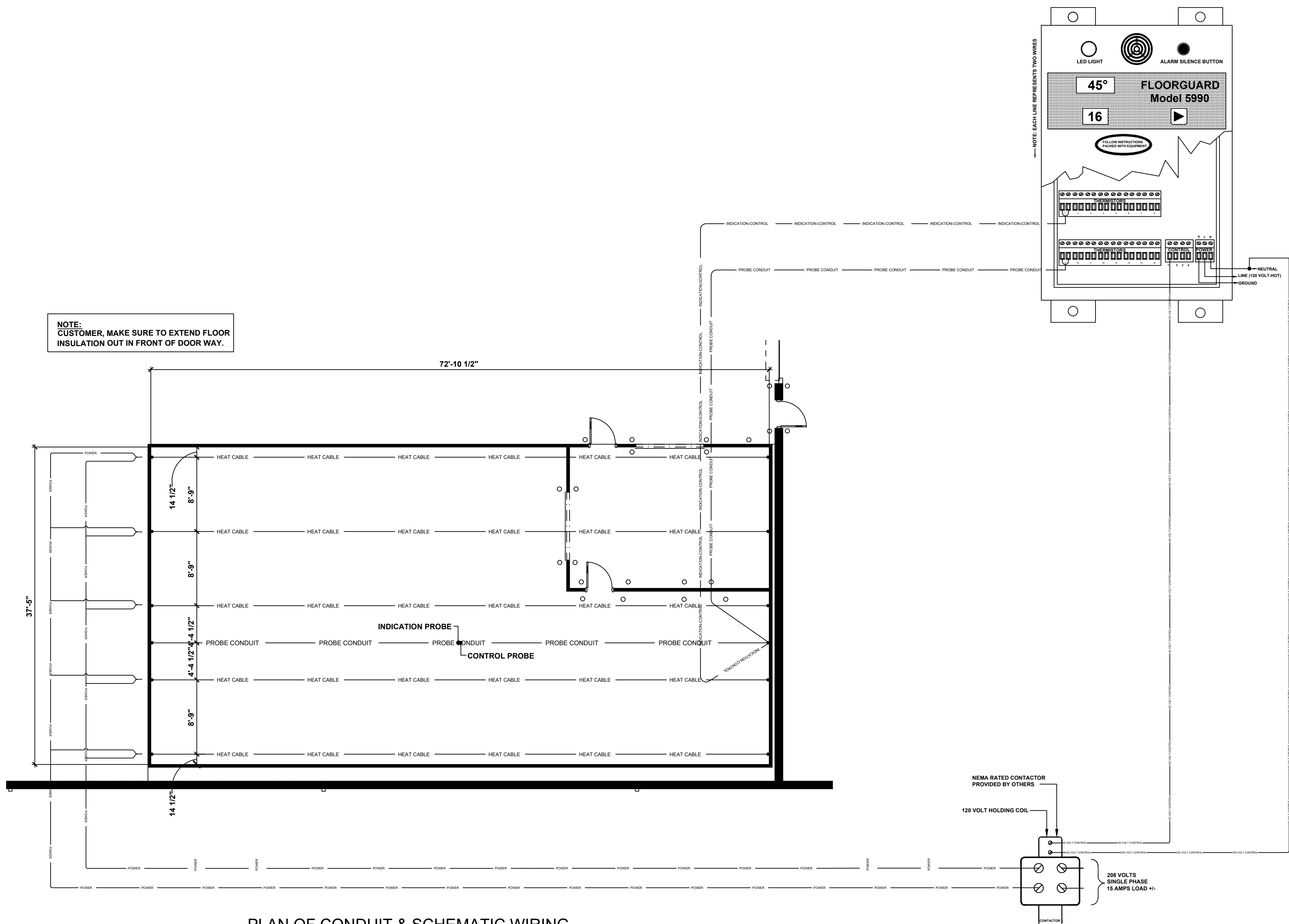
WIRE DIAGRAM #2



WIRE DIAGRAM #3



WIRE DIAGRAM #4



PLAN OF CONDUIT & SCHEMATIC WIRING NOT TO SCALE

HEAT CABLES OPERATE ON 208 VOLTS - PULL ROUGHLY 618 WATTS/ ± PER CABLE

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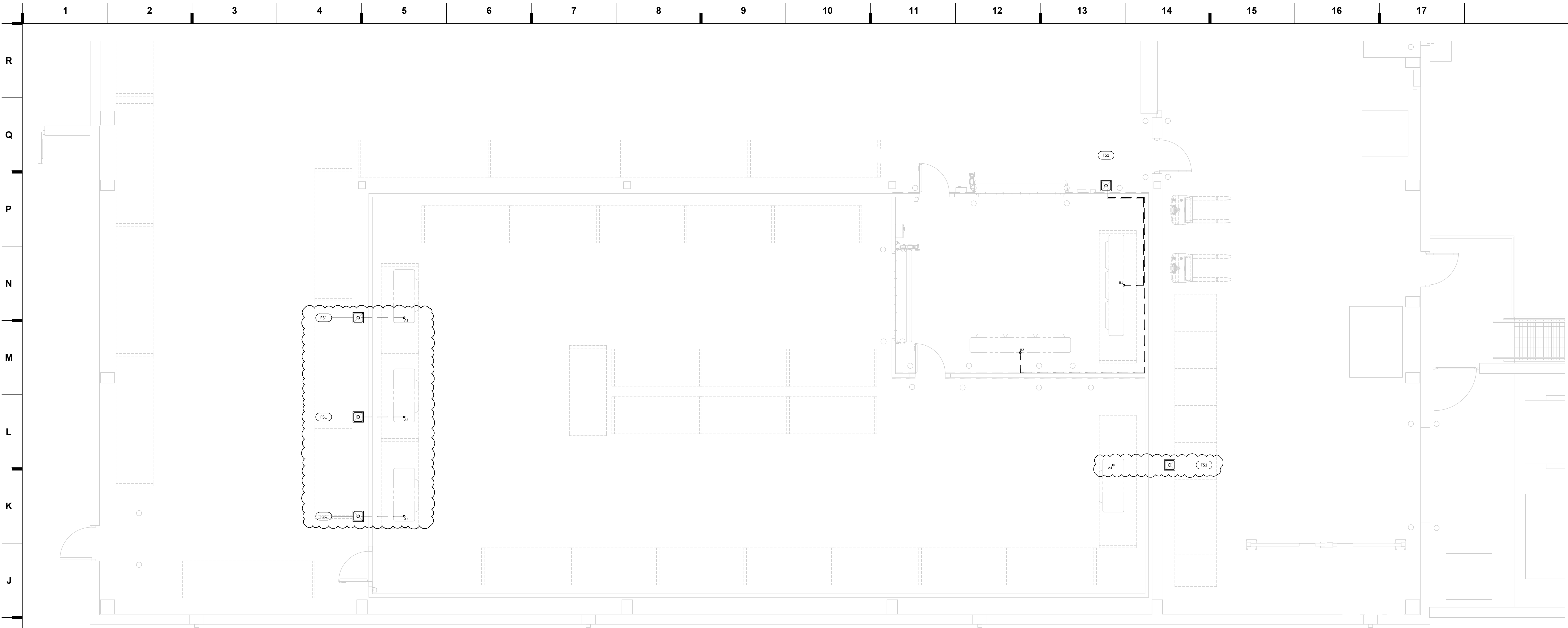
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1	ADDENDUM 1	10-20-2023
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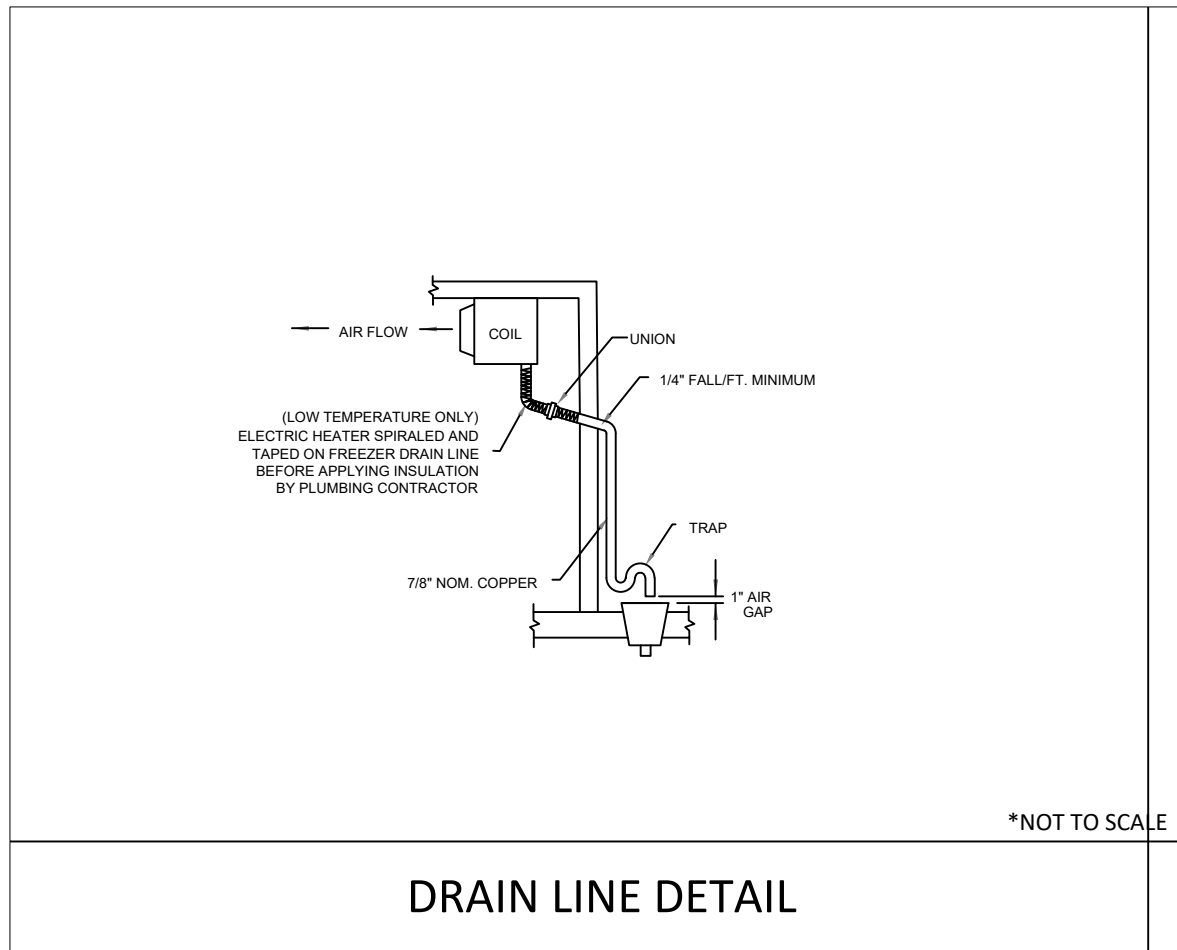
PLUMBING PLAN
SCALE: 1/4" = 1'-0"

PLUMBING SCHEDULE												
R	ITEM	QTY	DESCRIPTION	HW	AFF	HW GPH	CW	AFF	WST TYPE	DIA	AFF	GAS MBTU
-	A1	1	EVAPORATOR COIL - FREEZER	-	-	-	-	-	FS1	1-1/4"	-	-
-	A2	1	EVAPORATOR COIL - FREEZER	-	-	-	-	-	FS1	1-1/4"	-	-
10-20	A3	1	EVAPORATOR COIL - FREEZER	-	-	-	-	-	FS1	1-1/4"	-	-
10-20	A4	1	EVAPORATOR COIL - FREEZER	-	-	-	-	-	FS1	1-1/4"	-	-
-	B1	1	EVAPORATOR COIL - COOLER	-	-	-	-	-	FS1	1-1/4"	-	-
-	B2	1	EVAPORATOR COIL - COOLER	-	-	-	-	-	FS1	1-1/4"	-	-

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	WATER SUPPLY COLD/HOT
	DIRECT WASTE
	FLOOR SINK, NO GRATE
	FLOOR SINK, 3/4 GRATE
	FLOOR SINK, 1/2 GRATE
	FUNNEL DRAIN
	FLOOR DRAIN
	GAS CONNECTION
	BEVERAGE LINE PVC STUB-UP
	REFRIGERATION CONNECTION
	FIELD CONNECTION BY PLUMBER
	INDIRECT DRAIN

PLUMBING NOTES

1. ALL PLUMBING ROUGH-IN WORK AND FINAL CONNECTIONS TO ALL FOOD SERVICE AND RELATED EQUIPMENT AS SHOWN ON THE KITCHEN EQUIPMENT CONTRACTOR'S PLANS TO BE PERFORMED BY THE PLUMBING CONTRACTOR PER NATIONAL AND LOCAL CODES.
2. UNLESS OTHERWISE SPECIFIED IN THESE PLANS OR OTHER WRITTEN CONTRACTS, IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PROVIDE ALL PLUMBING-TYPE MATERIALS INCLUDING VALVES, TRAPS, LINE STRAINERS, FLOOR SINK COVERS, PRESSURE REGULATORS, SIPHON BREAKERS, ETC.
3. PLUMBING CONTRACTOR SHALL SIZE, FURNISH AND INSTALL ALL GREASE TRAPS OR INTERCEPTORS AS REQUIRED AND COORDINATE SIZES AND LOCATIONS WITH KITCHEN EQUIPMENT CONTRACTOR.
4. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL GAS SHUT-OFF VALVES FOR EACH PIECE OF EQUIPMENT.
5. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL DIRECT SINK WASTE LINES AND ALL INDIRECT EQUIPMENT WASTE LINES AS SHOWN ON PLANS PER LOCAL CODES, INCLUDING TRAPS, TAIL PIECES, LINE STRAINERS AS REQUIRED. INDIRECT WASTE LINE ROUTING THROUGH CABINETS SHALL BE IN A MANNER SO AS TO MAXIMIZE USABLE STORAGE SPACE.
6. ALL DRAIN LINES FROM EQUIPMENT REQUIRING CONDENSATION REMOVAL SHALL BE RUN IN COPPER.
7. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL INSULATION MATERIAL ON ALL DRAINLINES FROM ICE BINS, ICE PANS, ETC., SO AS TO ELIMINATE CONDENSATION FORMATION.
8. ALL INDIRECT WASTE LINES TO HAVE A 2" MINIMUM AIR GAP.
9. FLOOR SINKS SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR IN LOCATIONS SHOWN, AND SUPPLIED WITH 3/4 GRATE OR AS SPECIFIED. AREA DRAINS, IF REQUIRED, SHALL BE VERIFIED WITH THE ARCHITECT.
10. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THAT THE LOCATIONS FOR ALL MECHANICAL REQUIREMENTS WHICH REQUIRE FLOOR PENETRATIONS DO NOT CONFLICT WITH STRUCTURAL MEMBERS IN THE FLOOR.
11. THE GENERAL CONTRACTOR SHALL SUPERVISE THE LOCATION OF ALL FLOOR DRAINS ON THE JOB SITE SO AS TO ENSURE THE BEST SLOPE POSSIBLE OF THE SURROUNDING FLOOR TO THESE DRAINS.
12. PLUMBER SHALL FURNISH AND INSTALL PRESSURE REDUCING VALVE(S) AT DISHWASHER(S), GLASS WASHER(S), STEAMER(S) AND OTHER EQUIPMENT, AS REQUIRED.
13. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL WATER HEATERS FOR THIS PROJECT AND TO ENSURE ADEQUATE WATER SUPPLY FOR THE FOOD SERVICE EQUIPMENT. WATER TEMPERATURE TO THE DISHWASHER SHALL BE 140°. COORDINATE LOCATION OF WATER HEATER WITH KITCHEN EQUIPMENT CONTRACTOR.
14. THE PLUMBING CONNECTIONS, SPECIFICATIONS AND DIMENSIONS SHOWN ON THESE PLANS ARE FOR FOOD SERVICE EQUIPMENT ONLY. SEE ARCHITECT'S PLAN SET FOR ALL OTHER PLUMBING REQUIREMENTS FOR THIS PROJECT.



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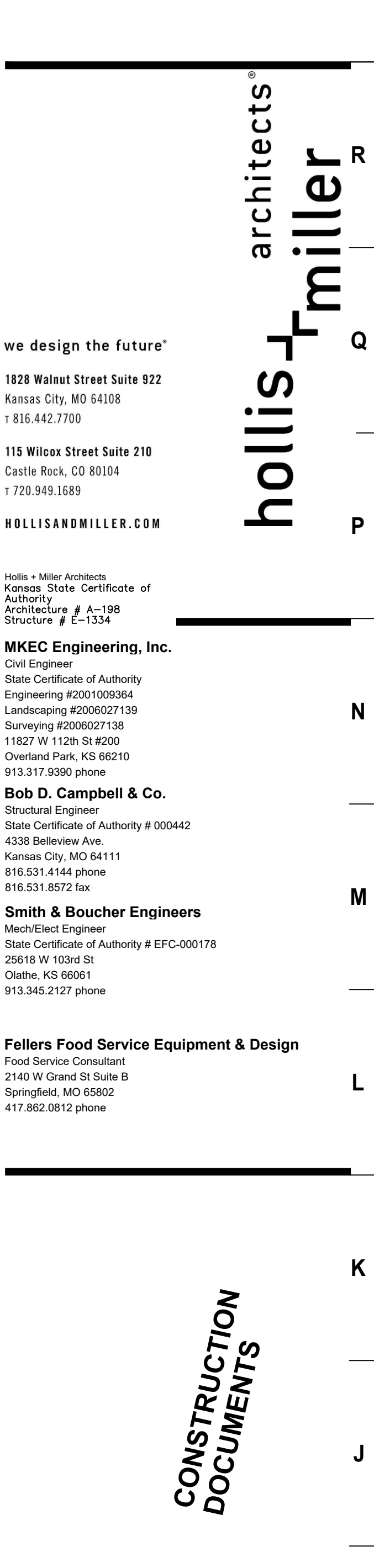
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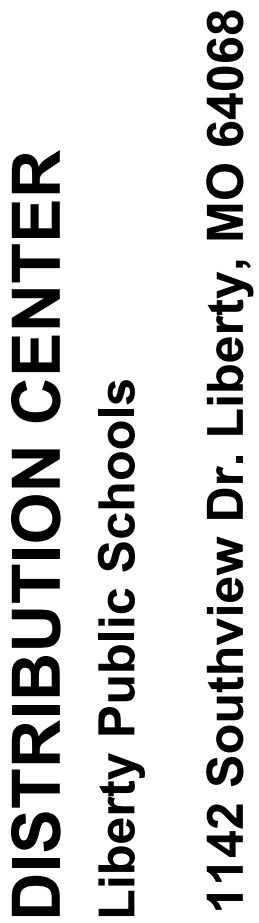
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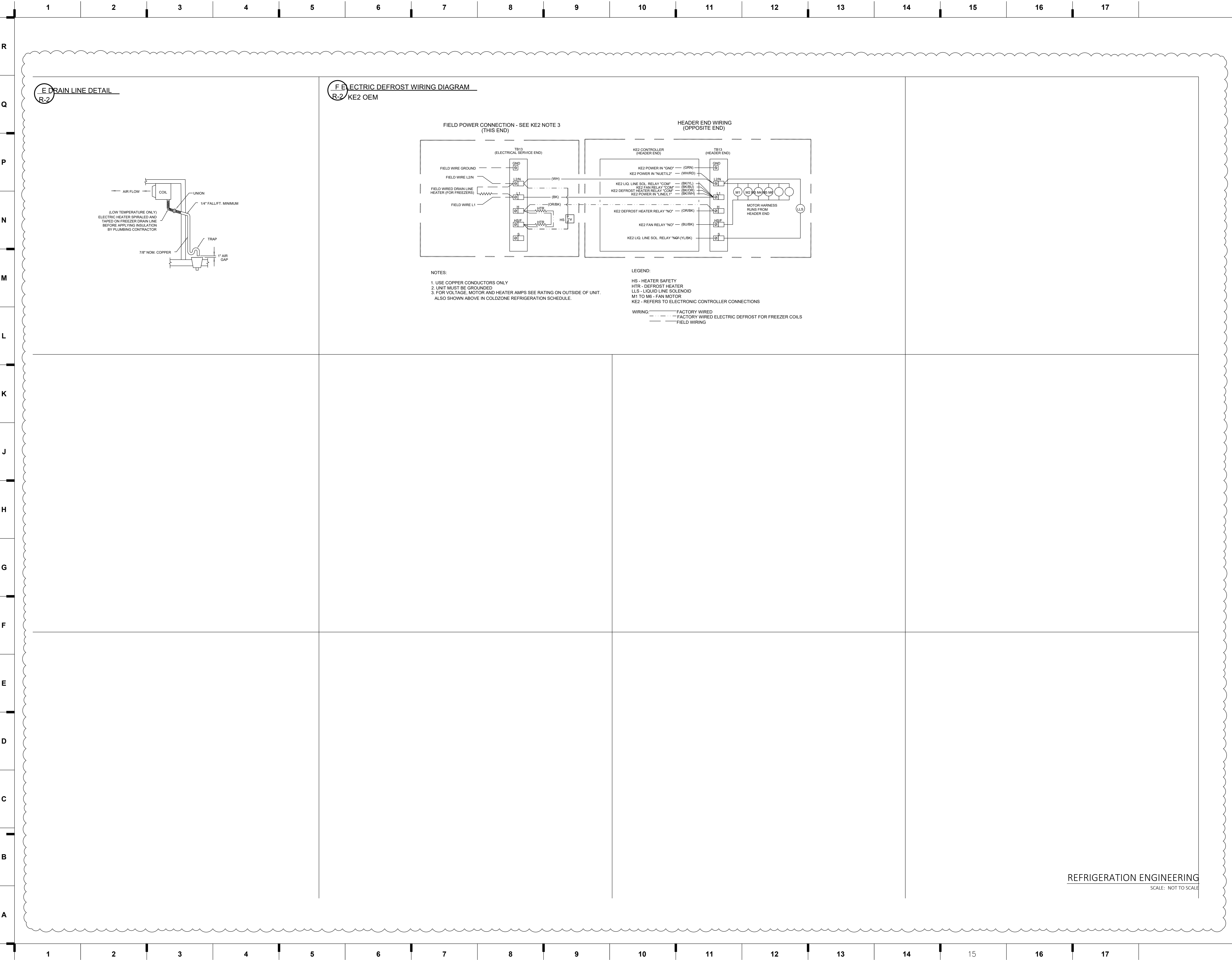
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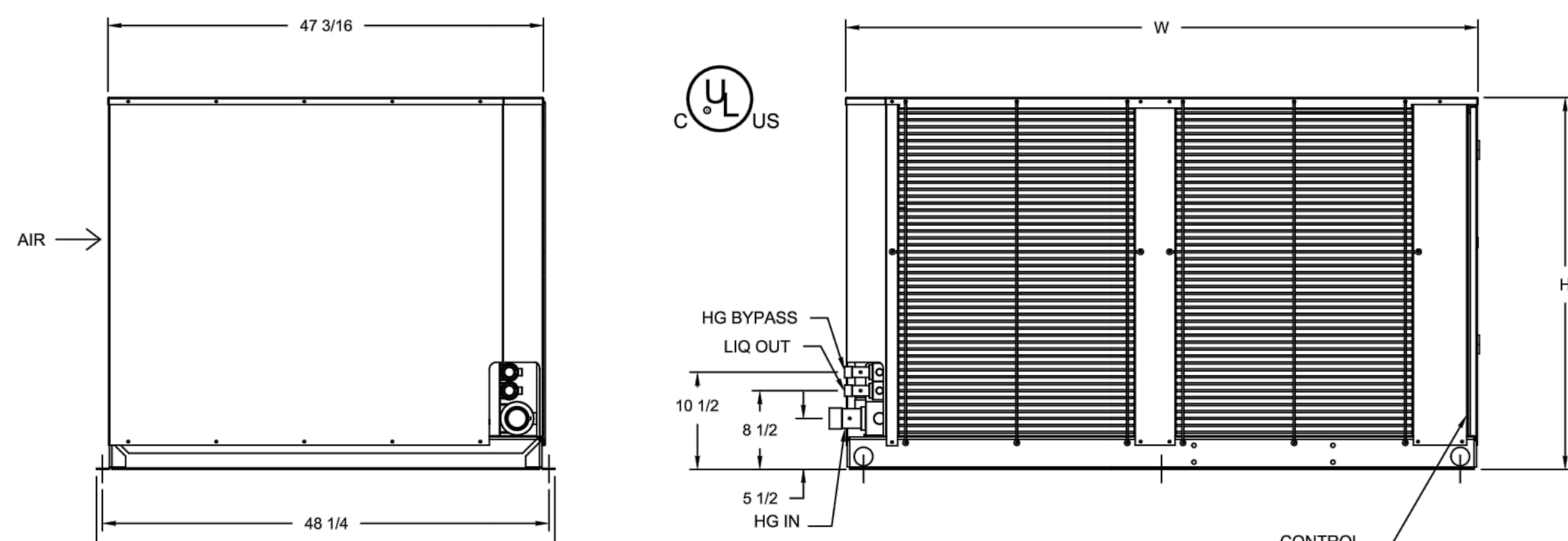
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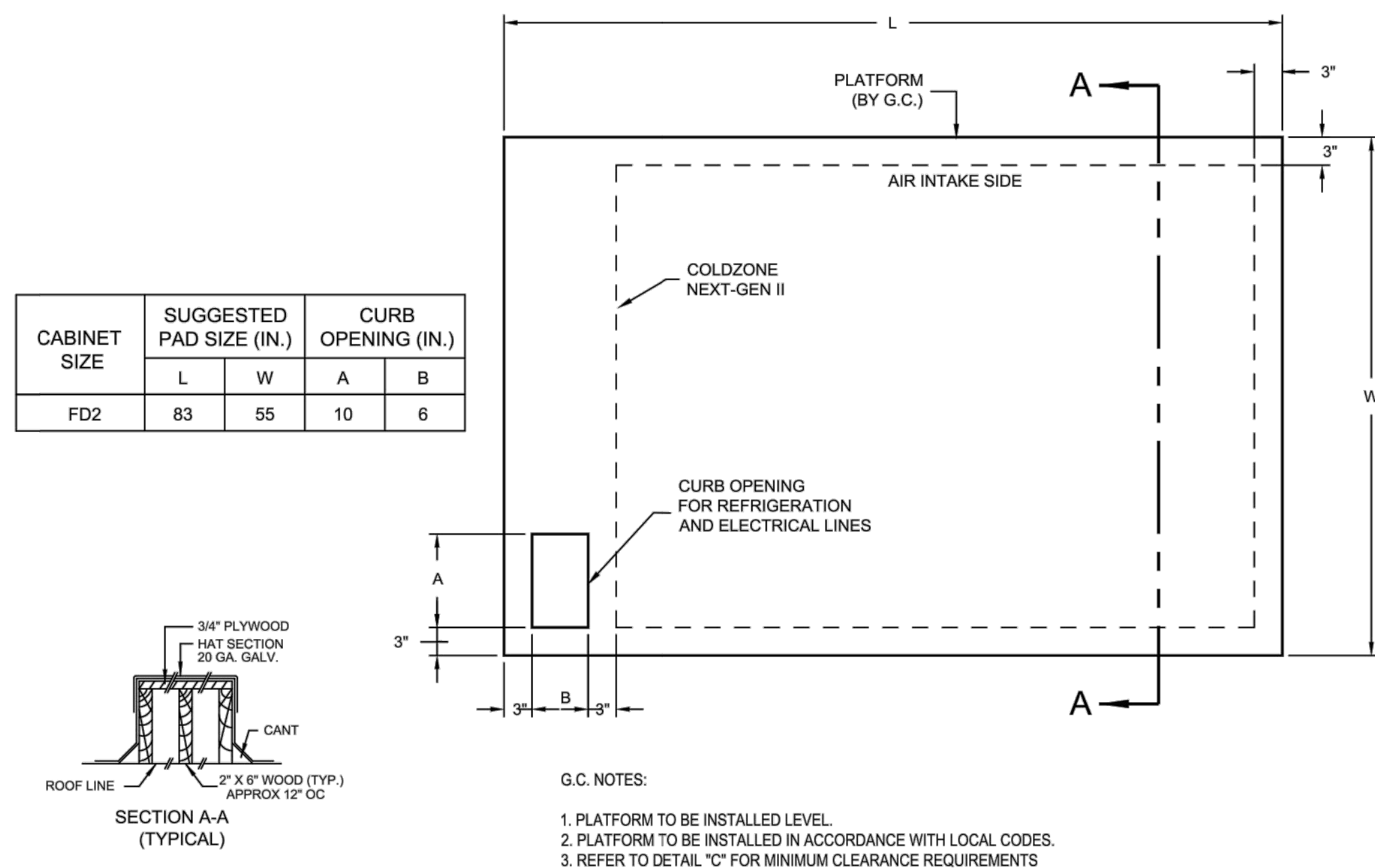
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A COLDZONE AIR COOLED CONDENSING UNIT
R-3 NEXT-GEN II

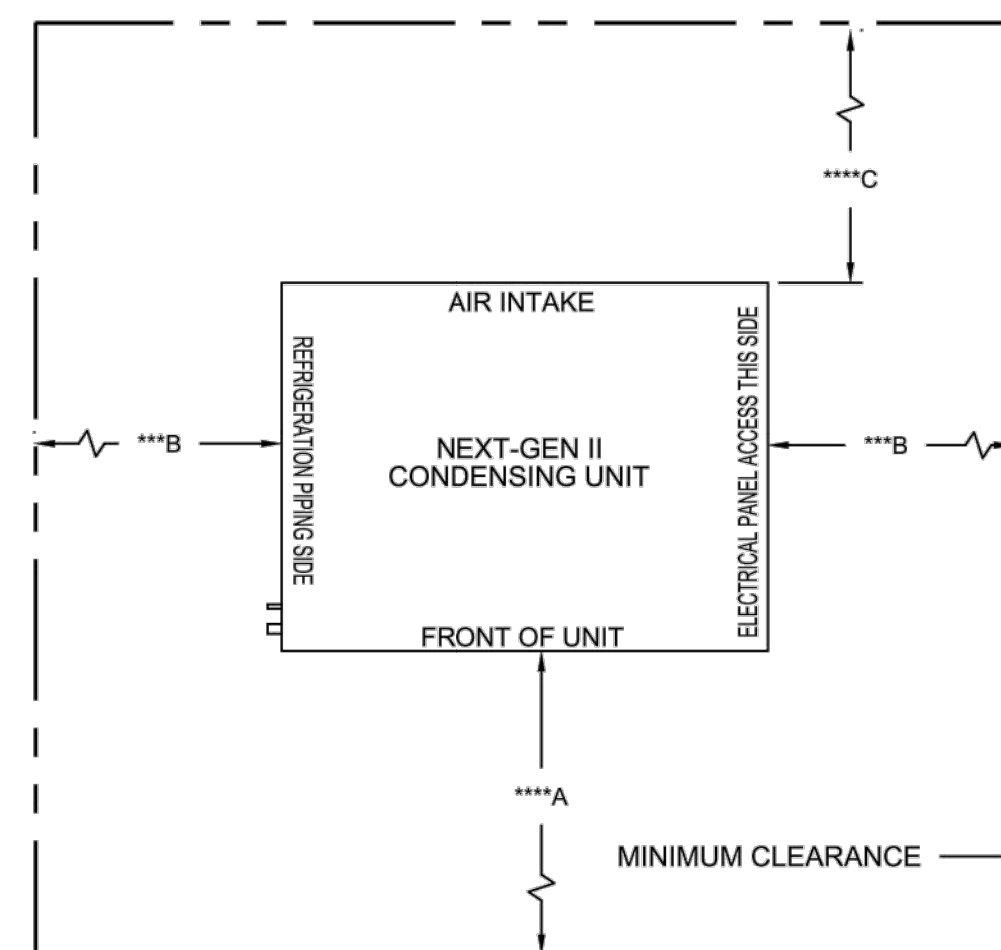


CABINET SIZE	CONDENSER FAN MTR. QTY.	DIMENSION (IN)		
		D	W	H
FD2	2	49	68-5/16	36-3/8

B SUGGESTED ROOF PAD DETAIL



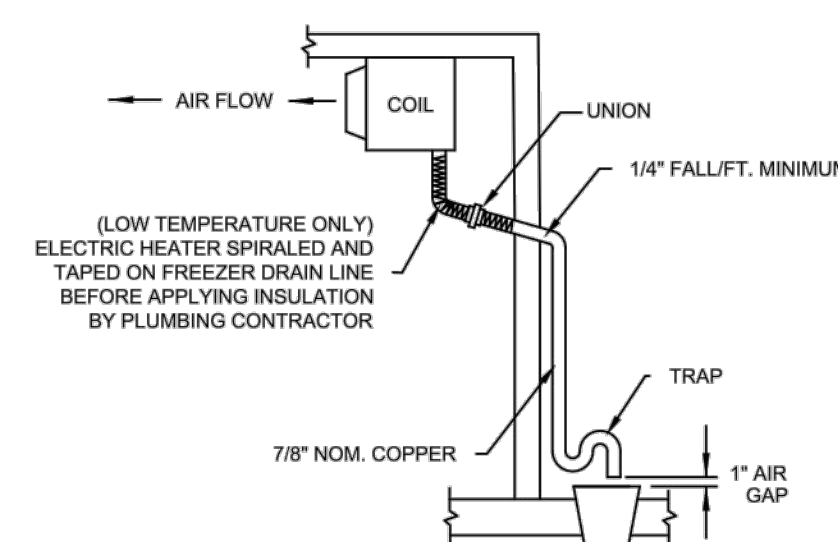
C R-3 MINIMUM CLEARANCE REQUIREMENTS AIR-COOLED NEXT-GEN II



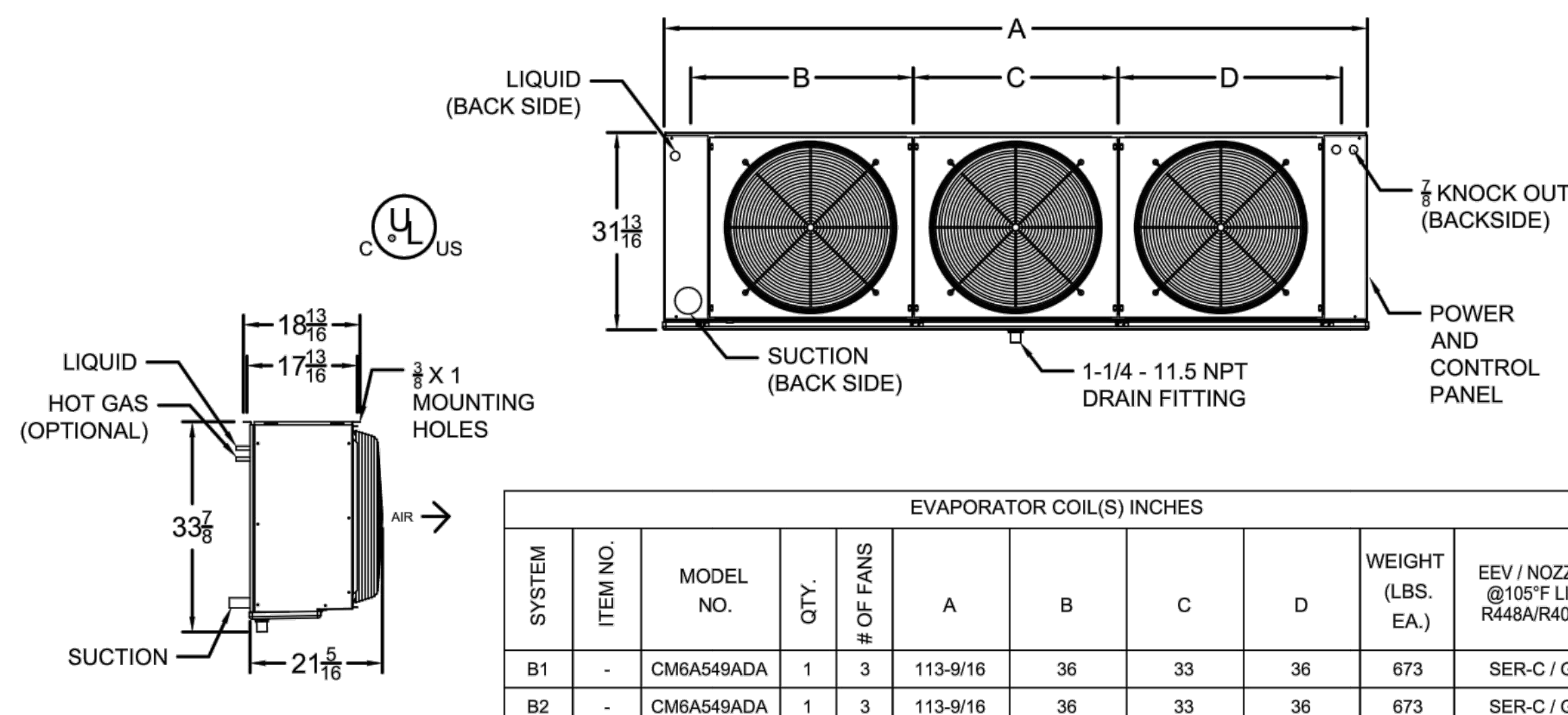
CONDENSING UNIT DESCRIPTION	MINIMUM DIMENSION (INCHES)		
	A	B	C
UNI-PAK 3.0 H.P. - 22.0 H.P.	72	30	48

***48" MINIMUM CLEARANCE FOR CONDENSING UNITS POSITIONED SIDE BY SIDE.
****120" MINIMUM CLEARANCE FOR CONDENSING UNITS POSITIONED IN FRONT OF ANOTHER

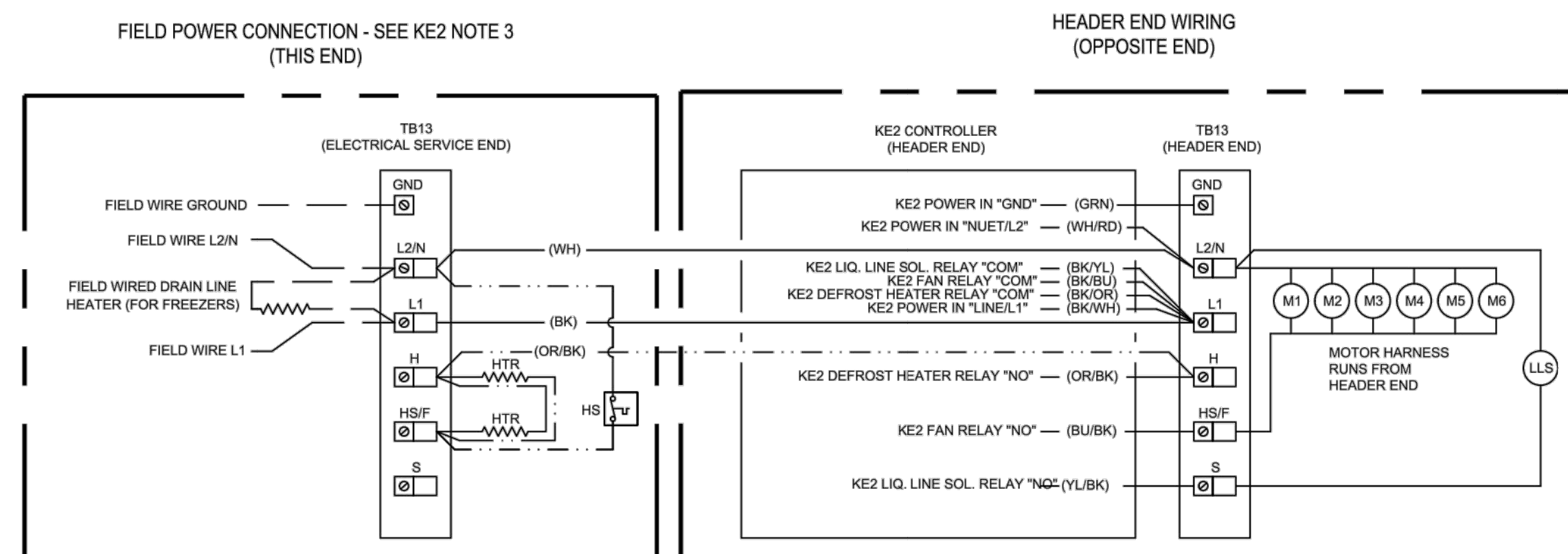
D DRAIN LINE DETAIL
R-3



E COLDZONE EVAPORATOR COIL
R-3 MEDIUM PROFILE



F ECONET WIRING DIAGRAM FOR
R-3 W/I ? EVAPORATOR COIL



NOTES:

1. USE COPPER CONDUCTORS ONLY
2. UNIT MUST BE GROUNDED
3. FOR VOLTAGE, MOTOR AND HEATER AMPS SEE RATING ON OUTSIDE OF UNIT
ALSO SHOWN ABOVE IN COLDZONE REFRIGERATION SCHEDULE.

LEGEND:

HS - HEATER SAFETY
HTR - DEFROST HEATER
LLS - LIQUID LINE SOLENOID
M1 TO M6 - FAN MOTOR
KEZ - REFERS TO ELECTRONIC CONTROLLER CONNECTIONS

WIRING: _____ FACTORY WIRED
- - - - - FACTORY WIRED ELECTRIC DEFROST FOR FREEZER COIL
_____ FIELD WIRING

ENGINEERING SUMMARY

[illegible]

NOTES:

SYSTEM B1 & B2 LEAD LAG SETUP - ALTERNATING EACH RUN CYCLE

SYSTEMS B1 & B2 SUPPLIED WITH REPLACEABLE SUCTION & LIQUID FILTER

OIL SEP & SUCTION ACCUM SHALL BE USED ON ALL SYSTEMS

EVAPS SUPPLIED WITH KE2 DEMAND DEFROST/LEAD LAG CONTROLLER FACTORY MOUNTED

POWER SUPPLY: REFER TO SYSTEM VOLTAGE & PHASE

ALL SYSTEMS SUPPLIED WITH HEATED AND INSULATED RECEIVER FOR LOW AMBIENT CONDITIONS FACTORY
ALL EVAPORATOR COILS WILL REQUIRE POWER FROM A HOUSE CIRCUIT
ALL COMPRESSORS AND CONDENSER CIRCUITS ARE SIZED TO OPERATE AT 95° F AMBIENT

ENGINEERING GUIDE SPECIFICATION
NEXT-GEN II AIR-COOLED CONDENSING UNIT

THE REFRIGERATION PACKAGE SHALL BE A PRE-ENGINEERED AND FACTORY ASSEMBLED UNIT TRADE NAME "NEXT-GEN II", AS MANUFACTURED BY COLDZONE, A DIVISION OF HEAT TRANSFER PRODUCTS GROUP, 1810 VINEYARD AVE. ONTARIO, CA 91761. PHONE: (800) 772-2653, FAX: (714) 529-8503.

CONTRACTOR SHALL FURNISH AND INSTALL, WHERE SHOWN ON PLANS (2) COLDZONE U.L. APPROVED "NEXT-GEN II" AIR-COOLED CONDENSING UNIT WITH EVAPORATOR COIL. ALL UNIT SHALL BE ELECTRICALLY TESTED AND SHIPPED WITH A DRY NITROGEN HOLDING CHARGE AND READY FOR FIELD INSTALLATION. THE UNIT SHALL BE SUITABLE FOR OPERATION ON 208/230 VOLTS, 3 PHASE, 60 HERTZ POWER.

1. NEXT-GEN II CONSTRUCTION
 - A. ALL TUBING SHALL BE SECURELY SUPPORTED AND ANCHORED WITH CLAMPS.
 - B. THE PACKAGE SHALL BE MOUNTED ON A HEAVY DUTY GALVANIZED STEEL BASE.
 - C. AIR-COOLED CONDENSING UNIT SHALL HAVE AN APPROPRIATE STYLE COMPRESSOR WITH INDUCTION AND DISCHARGE SERVICE VALVES. COMPRESSOR MOTOR SHALL BE HIGH TORQUE, HERMETIC DUCT TYPE, 1750 RPM AND SHALL BE PROTECTED AGAINST OVERLOAD, SINGLE PHASING AND LOCKED MOTOR CONDITION. THE UNIT SHALL BE PROVIDED WITH AIR COOLED CONDENSER COIL, WITH STAGGERED TUBE DESIGN FOR GREATER THERMAL EFFICIENCY. THE COIL SHALL BE TESTED TO 400 PSI AND SHALL BE SELF DRAINING TO ASSURE EFFICIENT OPERATION AND OIL RETURN. THE CONDENSER FAN MOTOR SHALL BE INHERENTLY PROTECTED AND HAVE LIFE LUBRICATED BALL BEARINGS. A FAN GUARD SHALL BE PROVIDED WITH EACH MOTOR. THE UNIT SHALL BE PROVIDED WITH A 1/2" O.D. 10' LONG 1" SCHEDULE 40S PIPE TO BE SUPPLIED WITH A RUSSELL PLUG AND SHALL CONFORM TO ULL OR ASME CODES AND SHALL BEAR THE APPROPRIATE LABEL OR STAMP.
 - D. COMPRESSOR HIGH/LOW PRESSURE CONTROL SHALL BE INCLUDED WITH THE UNIT.
 - E. ALL INTERNAL PIPING SHALL BE PRE-PIPED TO OUTSIDE OF ENCLOSURE WITH DRIER, SIGHT GLASS AND VIBRATION ELIMINATORS FOR SUCTION LINES.
 - F. ENDS OF LINES SHALL BE CAPPED AGAINST CONTAMINATION AFTER THE UNIT IS COMPLETED. THESE CAPPED ENDS ARE TO BE OPENED ONLY AT FINAL CONNECTION OF THE PACKAGE TO FIXTURES.
2. EVAPORATOR COILS
 - A. EVAPORATOR COILS SHALL BE DIRECT EXPANSION TYPE FABRICATED OF COPPER TUBES WITH ALUMINUM FINS.
 - B. EVAPORATOR COILS SHALL BE PROVIDED WITH SOLENOID VALVE, THERMOSTATIC EXPANSION VALVE, AND THERMOSTAT PIPED DIRECT TO THE SUCCTION LINE FOR POSITIVE MIP DOWN OR, IF SUPPLIED WITH ECONET THE CONTROL PACKAGE INCLUDES ELECTRONIC EXPANSION VALVE, SUCTION PRESSURE TRANSDUCER, SUCTION, ENTERING AIR, COIL TEMP THERMISTORS AND LOCAL DISPLAY WITH PUSH BUTTON ADJUSTMENTS.

GENERAL NOTES

1. GENERAL CONTRACTOR
 - A. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES.
 - B. GENERAL CONTRACTOR SHALL PREPARE THE PLATFORM, CURBED OPENINGS AND WEATHERPROOFING THE SAME AFTER INSTALLATION.
2. REFRIGERATION CONTRACTOR
 - A. THE COMPLETE SYSTEM SHALL BE EVACUATED WITH VACUUM PUMP.
 - B. CHARGE, TEST AND ADJUST EACH UNIT TO ASSURE PROPER OPERATION.
 - C. ALL COPPER TUBING TO BE REFRIGERANT GRADE A.C.R. OR TYPE "L".
 - D. SILVER SOLDER AND AN-SILFOS SHALL BE USED FOR ALL REFRIGERANT PIPING. SOFT SOLDER IS NOT ACCEPTABLE.
 - E. ALL PIPE TO BE PRESSURE TESTED WITH NITROGEN AT 300 PSI. AFTER THE CONDENSING UNIT AND COIL HAVE BEEN CONNECTED, THE BALANCE OF THE SYSTEM SHALL BE LEAK TESTED WITH ALL VALVES OPEN.
 - F. REFRIGERATION CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINE HEATER IN FREEZER TO BE CONNECTED BY ELECTRICAL CONTRACTOR.
3. ELECTRICAL CONTRACTOR
 - A. ELECTRICAL CONTRACTOR TO CONNECT DRAIN LINE HEATER IN FREEZER.
 - B. ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR CONDENSING UNIT AND EVAPORATOR COIL. AS CALLED FOR IN THE WIRING DIAGRAM.
 - C. ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WIRING DIAGRAM AND LOCAL CODES.
4. PLUMBING CONTRACTOR
 - A. PLUMBING CONTRACTOR TO PROVIDE A.C.R. OR TYPE "L" COPPER DRAIN LINES FOR WALK-IN REFRIGERATION AND FREEZER, PITCHED 1/4" PER FOOT OF RUN. IN FREEZER, UNHEATED DRAIN LINE MUST BE OUTSIDE OF INSULATION TO PREVENT FREEZING. TRAP DRAIN LINE OUTSIDE OF REFRIGERATED SPACE TO AVOID ENTRANCE OF WARM AND MOIST AIR.
 - B. PLUMBING CONTRACTOR TO PROVIDE INDIVIDUAL DRAIN LINE FOR EACH EVAPORATOR UNLESS OTHERWISE CALLED FOR.
 - C. ALL PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES.

REFRIGERATION ENGINEERING

SCALE: NOT TO SCALE

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1	ADDENDUM 1	10-20-2023

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CHECKED BY: FELLERS
DATE: 08.31.2023

K500.2