



**Historic Preservation Services**  
Community Development & Neighborhood Services  
281 N. College Ave.  
Fort Collins, CO 80524  
970.224.6078  
[preservation@fcgov.com](mailto:preservation@fcgov.com)  
[fcgov.com/historicpreservation](http://fcgov.com/historicpreservation)

**CERTIFICATE OF APPROPRIATENESS – Minor Alteration**

**ISSUED: November 27, 2024**

**EXPIRATION: November 27, 2025**

Progressive Old Town Square LLC  
c/o Annie Milsten, VFLA  
419 Canyon Ave. #200  
Fort Collins, CO 80521

Dear Property Owner:

This letter provides you with certification that proposed work to your designated Fort Collins landmark property, 7 Old Town Sq./238 E. Mountain Ave., has been approved by the City's Historic Preservation Division (HPD) because the proposed work appears to be routine in nature with minimal effects to the historic resource, and meets the requirements of Chapter 14, [Article IV](#) of the Fort Collins Municipal Code.

The alterations reviewed include:

- Replacement of non-historic garage door with new storefront window and person door in same opening

Notice of the approved application has been provided to building and zoning staff to facilitate the processing of any permits that are needed for the work.

Please note that work beyond that indicated in your permit application/correspondence requires additional approval.

If the approved work is not completed prior to the expiration date noted above, you may apply for an extension by contacting staff at least 30 days prior to expiration. Extensions may be granted for up to 12 additional months, based on a satisfactory staff review of the extension request.

If you have any questions regarding this approval, or if I may be of any assistance, please do not hesitate to contact me. I can be reached at [yjones@fcgov.com](mailto:yjones@fcgov.com) or at (970) 224-6045.

Sincerely,

Yani Jones  
Historic Preservation Planner



**BUILDING PERMIT APPLICATION:**

Tenant Finish (commercial)

All information on the application must be filled out (as applicable).

JOB SITE ADDRESS: \_\_\_\_\_ UNIT#: \_\_\_\_\_

**PROPERTY OWNER INFO: (All owner information is required – NOT optional)**

Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Middle \_\_\_\_\_

Street Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone # \_\_\_\_\_ Email \_\_\_\_\_

**CONTRACTOR INFO:**

Company Name \_\_\_\_\_

License Holder Name \_\_\_\_\_ LIC # \_\_\_\_\_ CERT # \_\_\_\_\_

**CONSTRUCTION INFO:**

1. Name of Business (fill in info below related to tenant): \_\_\_\_\_

Existing Tenant  New Tenant  First tenant/occupant in a new building/space

Name of prior tenant/business (or prior use): \_\_\_\_\_

Proposed Use: \_\_\_\_\_

2. Are there any exterior building changes (including mechanical) associated with the work? Yes  No

Describe: \_\_\_\_\_

3. Scope of Work Square Footage (leave blank where work is not occurring):

1st Floor Sq Ft \_\_\_\_\_ + 2nd Floor Sq Ft \_\_\_\_\_ + 3rd Floor Sq Ft \_\_\_\_\_ + 4th Floor Sq Ft \_\_\_\_\_

+ 5th Floor Sq Ft \_\_\_\_\_ + 6th Floor Sq Ft \_\_\_\_\_ + 7th Floor Sq Ft \_\_\_\_\_ Other \_\_\_\_\_

+ Unfin. Bsmt Sq Ft (remain unfin.) \_\_\_\_\_ + Fin Bsmt Sq Ft (to be fin.) \_\_\_\_\_ = Total Scope of Work Sq Ft \_\_\_\_\_

4. What is being added to the space (not previously existing/currently present)?:

# of Full Baths \_\_\_\_\_ # ¾ Baths \_\_\_\_\_ # ½ Baths \_\_\_\_\_ # Fireplaces \_\_\_\_\_

5. Is the building currently fire sprinkled? Yes  No

6. Asbestos Disclosure:

*In accordance with the State of Colorado Senate Bill 13-152, property owners, applying for a remodel permit, shall indicate their awareness about their property having been inspected for Asbestos Containing Materials (ACM's).*

I do not know if an asbestos inspection has been conducted on this property

An asbestos inspection has been conducted on this property on or around the date of: \_\_\_\_\_

An asbestos inspection has not been conducted on this property

**UTILITES INFO:**

Electric Service Upgrade Yes  No  Existing Amps \_\_\_\_\_ New Amps \_\_\_\_\_

Electric Meter Relocation Yes  No

**VALUE OF CONSTRUCTION** (*materials and labor*): \$ \_\_\_\_\_

**DESCRIPTION OF WORK:**

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**JOBSITE SUPERVISOR CONTACT INFO:** Name \_\_\_\_\_ Phone \_\_\_\_\_

**SUBCONTRACTOR INFO:**

Electrical \_\_\_\_\_ Structural Framing (wood only) \_\_\_\_\_ Mechanical \_\_\_\_\_

Plumbing \_\_\_\_\_ Fireplace \_\_\_\_\_ Roofing \_\_\_\_\_

**Applicant: I hereby acknowledge that I have read this application and state that the above information is correct and agree to comply with all requirements contained herein and City of Fort Collins ordinances and state laws regulating building construction.**

Applicant Signature \_\_\_\_\_ Type or Print Name \_\_\_\_\_

Phone # \_\_\_\_\_ Email \_\_\_\_\_

**THIS APPLICATION EXPIRES 180 DAYS FROM APPLICATION DATE**



Planning, Development & Transportation  
281 N. College Ave  
Fort Collins, CO 80524  
Phone 970-416-2740 Fax 224-6134

### BUILDING OWNER AUTHORIZATION TO OBTAIN A COMMERCIAL BUILDING PERMIT

I, (Print) Troy Soukup as owner of record (property address) 7 Old Town Square known as (name of business) Old Town Square Properties hereby authorize the

work listed below to be done on said property. I understand that such work will **only be performed contractors licensed by the City of Fort Collins.**

I am giving permission for **interior work only**. The scope of the work shall be limited to: \_\_\_\_\_

I am giving permission for **exterior work only**. The scope of the work shall be limited to: \_\_\_\_\_

I am giving permission for **interior and exterior work**. The scope of the work shall be limited to: \_\_\_\_\_

[Signature]  
(Property owner signature)

Troy Soukup  
(Property owner name; please print)

The foregoing affidavit was acknowledged before me on the 10th day of November (month, year) by Troy Soukup for the purpose therein set forth.

Witness my hand and official seal.  
My Commission expires: 9/16/27

[Signature]  
Notary Public

Permit # \_\_\_\_\_  
*Office use only*

STEPHANIE S JAMISON  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID 20194035412  
MY COMMISSION EXPIRES SEPTEMBER 16, 2027

**Tenant Finish Checklist** (fill out as it pertains to the project scope).

Check before submitting. Separate and addition submittals may be required.

\*\*\*If required, it is the applicant's responsibility to attain approvals from the following entities, some of which may be required for permit issuance.

<b>Floodplain:</b> Is any portion of the building located in a floodplain? <a href="https://www.fcgov.com/floodplain-maps">https://www.fcgov.com/floodplain-maps</a>
<b>Historic:</b> Is the building historically designated? <a href="http://www.fcgov.com/historicpreservation">www.fcgov.com/historicpreservation</a>
<b>Zoning:</b> Is the use of the building allowed in this zone? <a href="https://www.fcgov.com/zoning/">https://www.fcgov.com/zoning/</a>
<b>Poudre Fire Authority:</b> 102 Remington St. / (970)-416-2891 / <a href="https://www.poudre-fire.org/online-services/contractors-plan-reviews-and-permits">https://www.poudre-fire.org/online-services/contractors-plan-reviews-and-permits</a> 1. Most commercial remodels require a separate and addition permit (see link above to submit). 2. Fire suppression system modifications require a separate and addition permit (see link above to submit).
<b>Larimer County Health Department:</b> 1525 Blue Spruce Dr. / (970)-498-6785 / <a href="https://www.larimer.org/health">https://www.larimer.org/health</a> A separate and additional submittal are required for the service, preparation, or processing of food or drinks; daycare facilities; schools; and healthcare.
<b>Engineering Department:</b> <a href="https://www.fcgov.com/engineering/inspection.php">https://www.fcgov.com/engineering/inspection.php</a> Work impacting or encroaching into the Public Right-of-way
<b>Does the scope of work involve more than one trade (Electric, plumbing, framing)?</b>
<input type="checkbox"/> A licensed general contractor is required
<input type="checkbox"/> The single permit will include all subtrades which need to be listed on the permit application
<b>Is demolition occurring?</b>
An optional <a href="#">demolition permit</a> is available prior to tenant finish permits being issued. See: <a href="#">commercial demo guide</a>
See separate, additional State requirements for asbestos: <a href="https://cdphe.colorado.gov/indoor-air-quality/asbestos">https://cdphe.colorado.gov/indoor-air-quality/asbestos</a>

**Building Permit Submittal Checklist**

<a href="#">Tenant Finish Building Permit Application</a>
<a href="#">Owner Authorization Form</a>
<a href="#">Construction Waste Management Plan</a> (required for a scope of work more than 2,500 sf)
This checklist filled out and all documents in this checklist must follow the <a href="#">electronic document submittal guide</a> .
Plan check fee
Site Plan (only if exterior work is being proposed i.e. attached patio cover, dining patio etc.)
<b>Plans Set</b> must include all the following <i>as it pertains to the project scope</i> : <i>Example: If no plumbing work is occurring, check NA. If plumbing work is occurring, plans should contain plumbing drawings.</i>
All plans must reflect the current adopted <a href="#">codes</a>
A <i>fully stamped set of plans</i> is required if any of these conditions apply: 1. Scope of work exceeds 5,000 sq ft 2. First Tenant to occupy a space 3. <a href="#">Change of Occupancy</a> (architect evaluation letter can be submitted where no/minor work is being done).
<b>Floor Plans:</b> <input type="checkbox"/> Existing AND <input type="checkbox"/> Proposed (include room labels, square footages, dimensions, drawn to scale).
<b>Accessibility drawings:</b> if there are accessibility improvements (i.e. wheelchair accessible restrooms, ramps etc.).
<b>Drawing Details:</b> such as wall sections, fire rated assemblies, stair and guardrail details, door operation and locking, interior and exterior elevations (i.e. restroom elevations).
Energy Code items per the IECC (lighting comcheck, insulation details, mechanical ventilation, etc.)
<b>Structural drawings:</b> Including structural evaluations for weight added to existing roofs (RTU's, condensing units, etc.) ***All structural drawings/evaluation letters must be stamped.
<b>Mechanical Drawings:</b> showing items such as heating/cooling equipment, ductwork, exhaust, hoods, ventilation, special equipment, or systems. ***Stamped mechanical engineered drawings are required for full new mechanical systems (I.E.: new ductwork + new RTU).
<b>Plumbing Drawings:</b> showing waste and vent diagrams, water supply, plumbing fixtures, water heaters, gas lines, grease interceptors, special systems, and equipment.
<b>Electrical Drawings:</b> Includes outlets, lighting, panels, and special equipment. New 3 phase service or service change more than 225 amps requires an engineered + stamped electrical One-Line Check any that apply: <input type="checkbox"/> New electric service <input type="checkbox"/> Electric meter relocation

Applicant's Name:

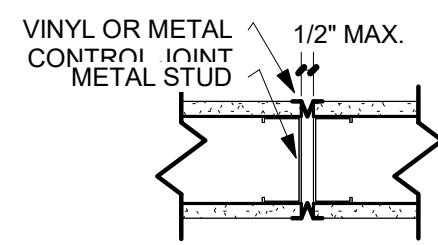
Date:

Job site address:

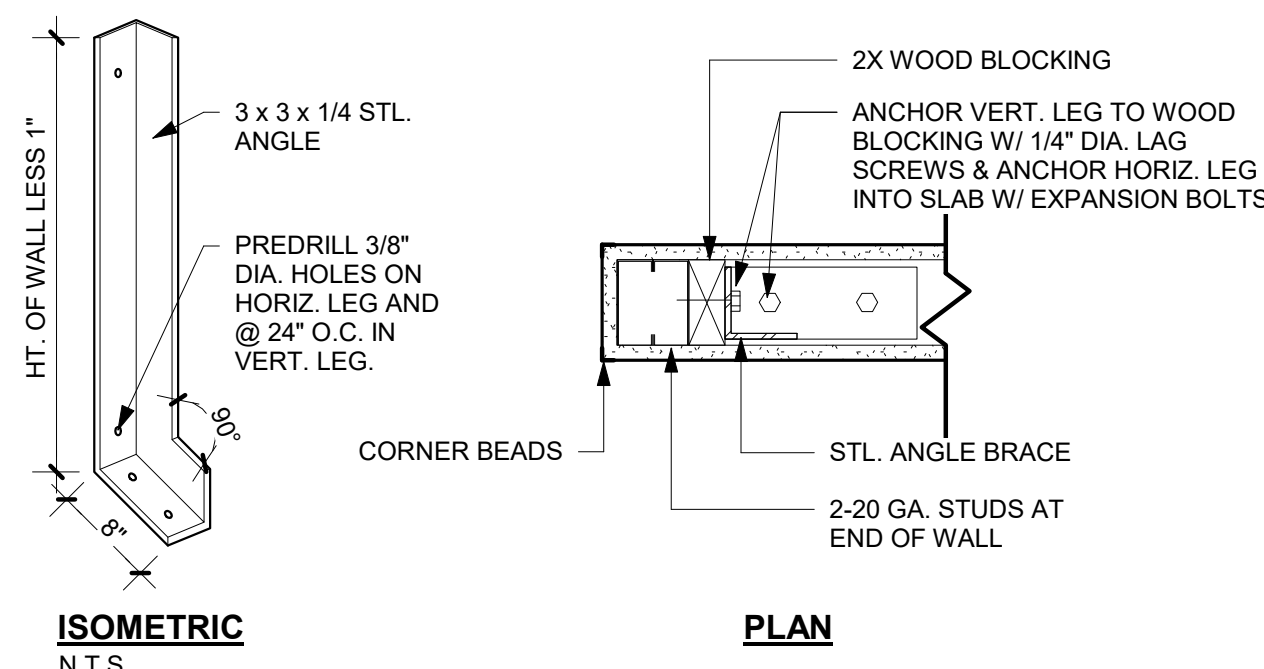
E-Mail Address:



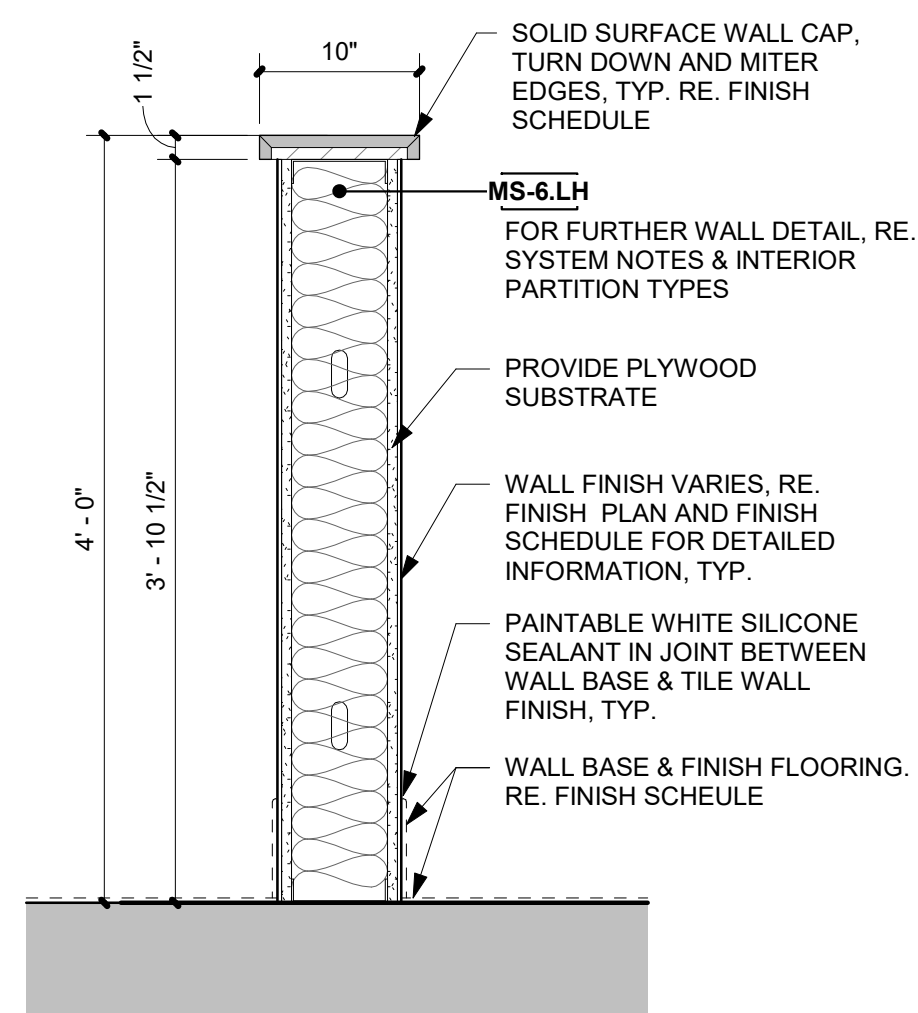




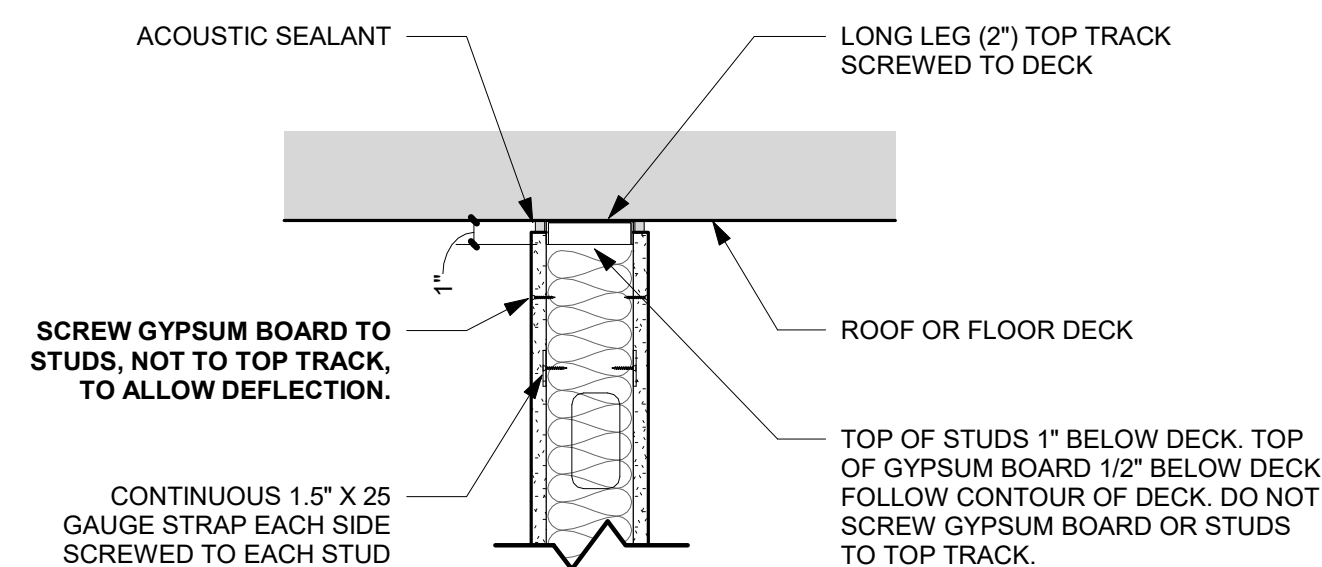
**WALL PARTITION - CONTROL JOINT DETAIL - UNRATED WALLS - MTL STUDS**



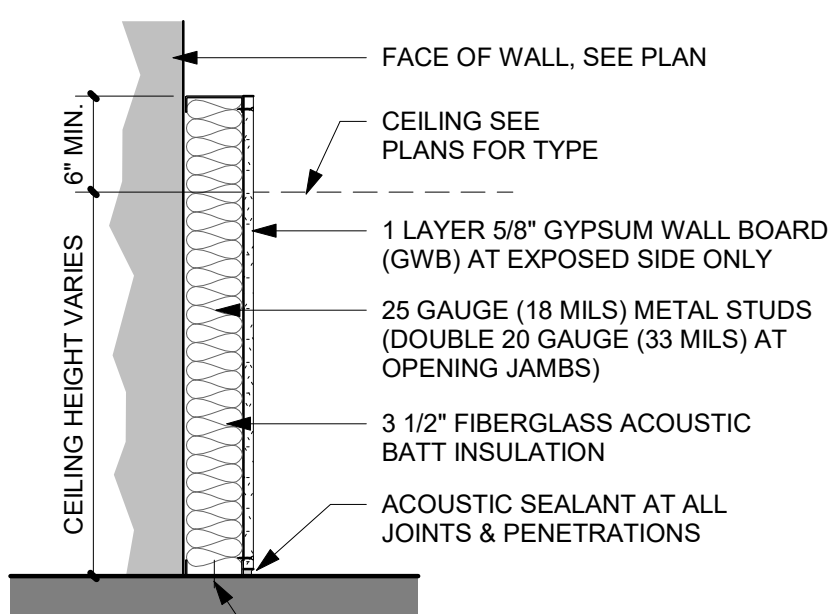
**WALL PARTITION - BRACE AT FREE END OF LOW WALLS (MTL. STUDS)**



**WALL PARTITION - LOW HEIGHT (LH) NON-RATED METAL PARTITION DETAIL**



**WALL PARTITION - FULL-HEIGHT (H) NON-RATED MTL PARTITION HEAD DETAIL @ FLAT DECK**



**SYSTEM NOTES**

**FLOORS**

- F1 • CONCRETE SLAB INFILL PER STRUCT. COORDINATE WITH STRUCT.

**CEILING**

REFER TO CEILING TYPES LEGEND ON SHEET A2.1

**INTERIOR PARTITION NOTES**

- ALL INTERIOR PARTITIONS ARE **MS-3** UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.
- METAL STUDS FOR INTERIOR PARTITIONS ARE **25 GA. (18 MILS)** U.N.O. WITH **DOUBLE 20 GA. (33 MILS)** STUDS @ DOOR & WINDOW JAMBS.
- INSTALL CONTROL JOINTS VERTICALLY AND HORIZONTALLY IN CONTINUOUS GYPSUM WALL SURFACES GREATER THAN 30' IN LENGTH BETWEEN CORNERS. SPACE JOINTS @ 30' MAX. O.C.
- PROVIDE WOOD BLOCKING IN PARTITIONS AS NEEDED TO PROVIDE BACKING FOR WALL MOUNTED EQUIPMENT, CABINETS, ACCESSORIES, ETC. IT SHALL BE THE RESPONSIBILITY OF THE G.C. TO COORDINATE THE REQUIRED LOCATIONS FOR BACKING. FIRE RATED PARTITIONS REQUIRE FIRE RETARDANT TREATED WOOD BLOCKING.
- ALL PARTITIONS TO HAVE ACOUSTIC TREATMENT U.N.O.: INSTALL 3 1/2" F.G. ACOUSTIC BATTS IN CAVITIES BETWEEN STUDS. SEAL PERIMETER & ALL PENETRATIONS W/ ACOUSTIC SEALANT. WHERE ITEMS PENETRATE PARTITION, CUT GYP. BD. TO WITHIN 1/2" OF PENETRATING ITEM, FOLLOWING CONTOURS, AND FILL JOINTS WITH ACOUSTIC SEALANT. (PENETRATING ITEMS AT FIRE RATED PARTITIONS MUST BE FIRESTOPPED.)

**INTERIOR PARTITION SUFFIXES**

THE BASIC PARTITION TYPES LISTED SHOWN HERE ARE MODIFIED PER THE SUFFIXES LISTED BELOW.

**"H" = FULL HEIGHT PARTITION (UNRATED)**

- EXTEND PARTITION FULL HT. TO UNDERSIDE OF FLOOR/ROOF DECK OR TO UNDERSIDE OF A GYP. BD. CLG THAT IS PART OF A ROOF/CLG. OR FLR./CLG. ASSEMBLY. EXTEND ACOUSTIC INSULATION FULL HT. USE LONG LEG (2") TOP TRACK @ UNDERSIDE OF DECK/ROOF W/ STUDS CUT 1" SHORT. EXTEND GYP. BD. FULL HT. TO 1/2" BELOW UNDERSIDE OF DECK. CUT GYP. BD. TO FOLLOW CONTOUR OF DECK, MAINTAINING 1/2" JT. FILL JT. W/ ACOUSTIC SEALANT. DO NOT SCREW GYP. BD. TO TOP TRACK. FILL FLUTES IN METAL DECK OVER TOP TRACK W/ F.G. BATT INSUL.

**"LH" = LOW HEIGHT PARTITION (UNRATED)**

- EXTEND PARTITION PARTIAL HT. TO 3'-10 1/2". REFER TO WALL TYPE AND SECTION. SEE BRACE DETAIL FOR FREE ENDS OF LOW WALLS ON THIS SHEET.

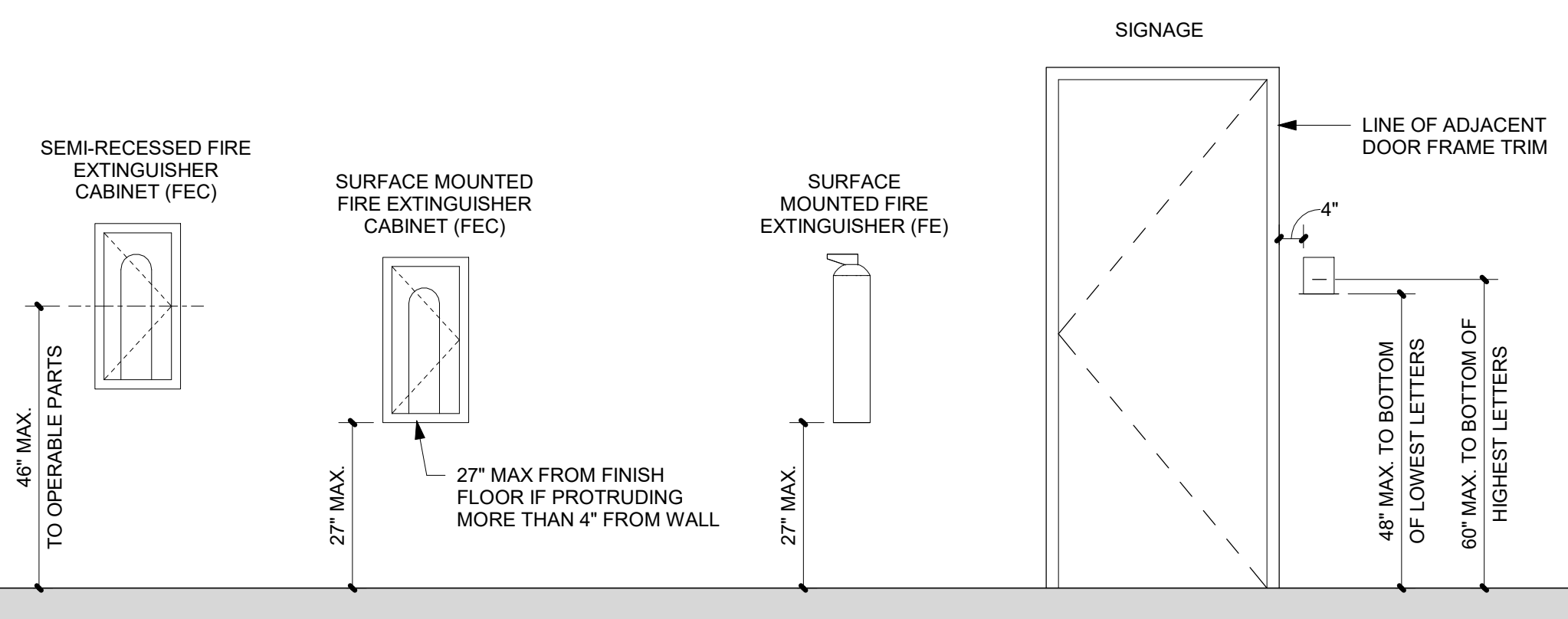
**METAL STUD LIMITING HEIGHTS**

DEPTH	SPACING	LIMITING HEIGHT
1-5/8" (162S125-18/33)	24" O.C.	7' - 1"
1-5/8" (162S125-18/33)	16" O.C.	8' - 2"
2-1/2" (250S125-18/33)	24" O.C.	9' - 3"
2-1/2" (250S125-18/33)	16" O.C.	9' - 10"
3-5/8" (362S125-18/33)	24" O.C.	11' - 7"
3-5/8" (362S125-18/33)	16" O.C.	12' - 4"
6" (600S125-18/33)	24" O.C.	16' - 9"
6" (600S125-18/33)	16" O.C.	17' - 11"

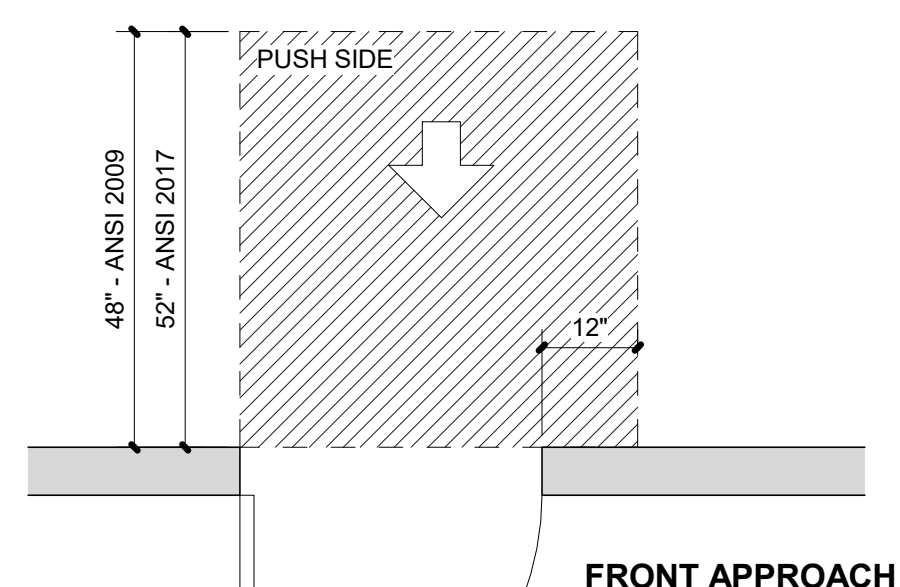
**NOTE:**

- MAXIMUM SPACING/HEIGHT BASED ON USG STUDS.
- MAY VARY FOR OTHER MANUFACTURERS.
- MAXIMUM ALLOWABLE DEFLECTION = L/360
- MAXIMUM LATERAL PRESSURE = 5 PSF
- STUD THICKNESS = 25 GAUGE (18 MIL)

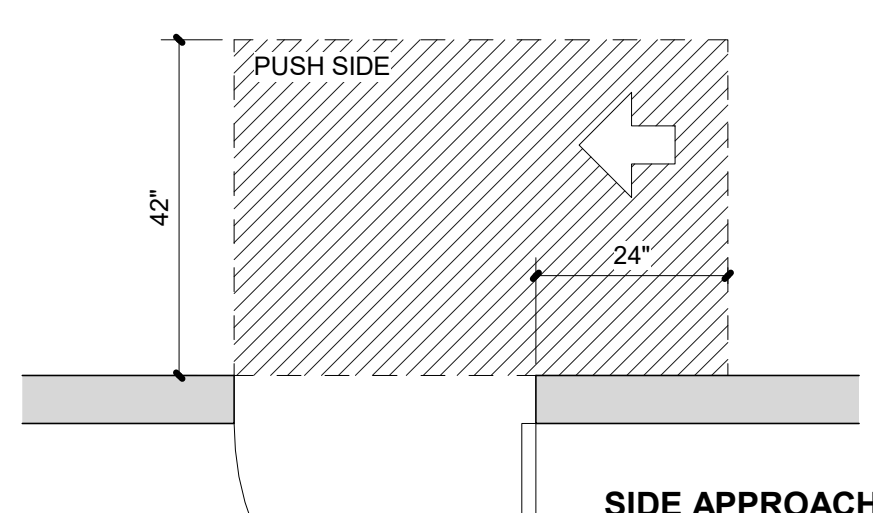
**TYPICAL 2017 ANSI DETAILS & MISC. MOUNTING HEIGHTS**



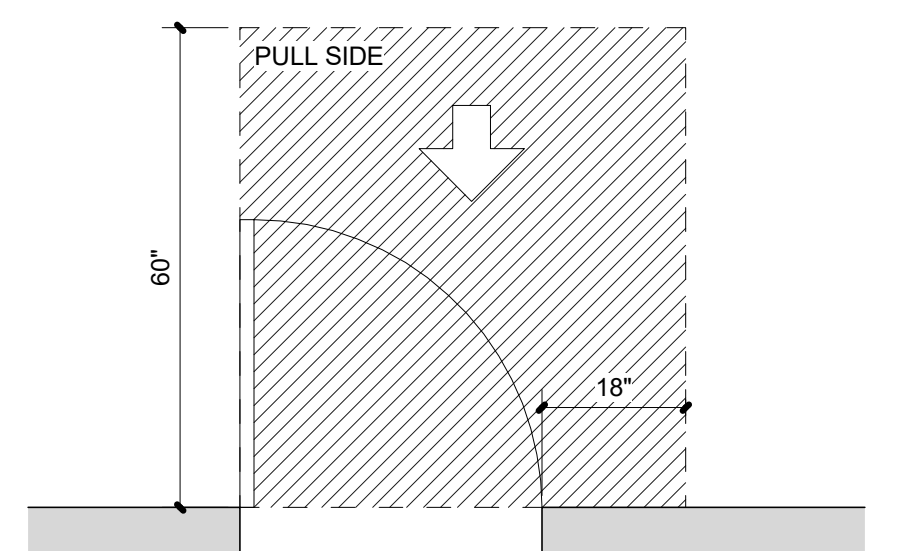
**MISCELLANEOUS EQUIPMENT MOUNTING HEIGHTS**



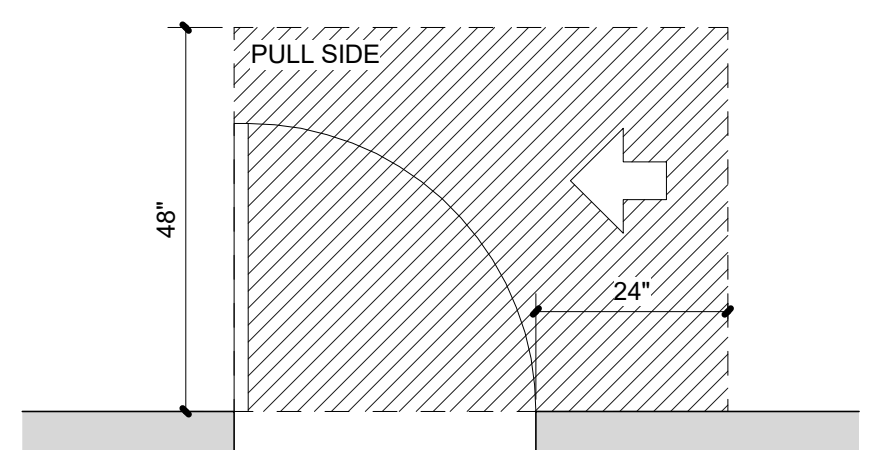
**FRONT APPROACH**



**SIDE APPROACH**



**FRONT APPROACH**



**SIDE APPROACH**

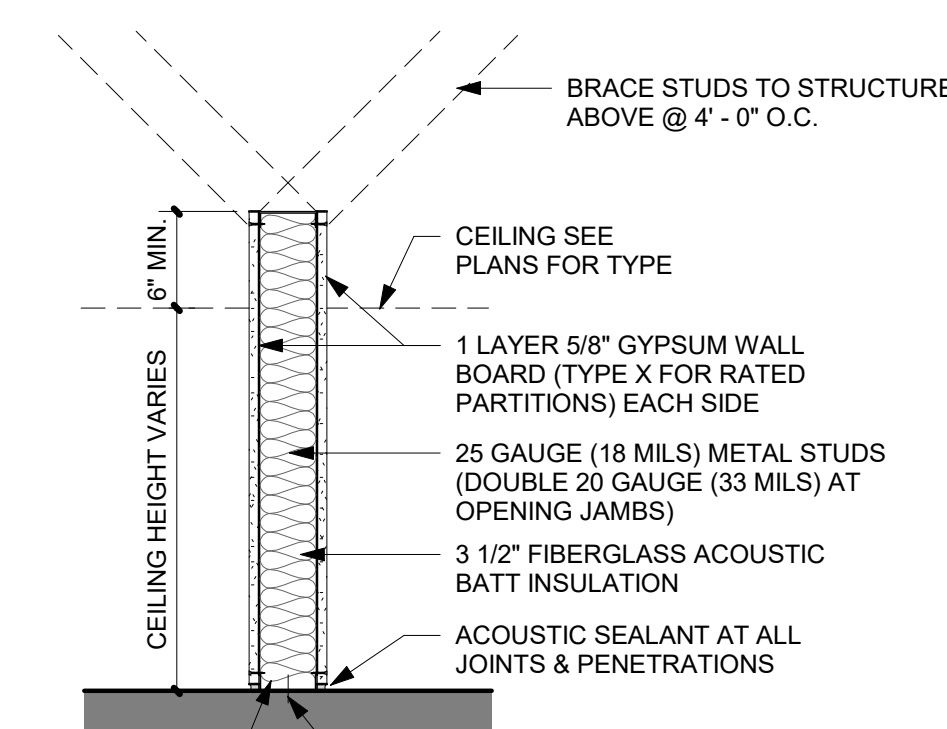
**MF-# - METAL FURRING (NON-LOAD BEARING) W/ GWB ON (1) SIDE**

PARTITION TYPE:	STUD SIZE	RATING	UL ASSEMBLY	NOTES
MF-0	7/8"	-	-	SEE INTERIOR PARTITION NOTES
MF-1	1-5/8"	-	-	FOR SUFFIXES / MODIFIER DESCRIPTIONS
MF-2	2-1/2"	-	-	
MF-3	3-5/8"	-	-	
MF-6	6"	-	-	
MF-8	8"	-	-	

**MS-# - METAL STUD (NON-LOAD BEARING) W/ GWB ON (2) SIDES**

PARTITION TYPE:	STUD SIZE	RATING	UL ASSEMBLY	NOTES
MS-1	1-5/8"	-	-	SEE INTERIOR PARTITION NOTES
MS-2	2-1/2"	-	-	FOR SUFFIXES / MODIFIER DESCRIPTIONS
MS-3	3-5/8"	-	-	
MS-6	6"	-	-	
MS-8	8"	-	-	

IN FIRE RATED PARTITIONS, FIRESTOPPING IS REQ'D AT ALL PENETRATIONS AND JOINTS. JOINT AT BOTTOM OF WALL. UL SYSTEM NO. BW-50014 OR ACCEPTABLE SUBSTITUTION.



PROJECT NUMBER: 2024-53

**BONCHON & BROWN DONKATSU**

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80521



419 CANYON AVE STE 200, FORT COLLINS, CO 80521  
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
STRENGTH IN COMMUNITY

**PROJECT TEAM**

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:  
INTEGRATED MEP, LLC.

PLUMBING ENGINEER:  
INTEGRATED MEP, LLC.

ELECTRICAL ENGINEER:  
APS, INC.

**DESIGN DEVELOPMENT**

**SHEET ISSUANCES**

DESCRIPTION	DATE
DESIGN DEVELOPMENT	09-20-2024
CONSTRUCTION DOCUMENTS	10-11-2024

SEAL:



COPYRIGHT: 10/11/2024 11:44:14 AM  
VAUGHN FRYE LARSON ARCHITECTURE + INTERIORS, INC.  
THIS DRAWING MAY NOT BE PHOTOCOPIED, SCANNED, TRACED OR  
COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF VFLA.

**SYSTEM NOTES & INTERIOR PARTITION TYPES**

DRAWING NUMBER:

**G0.3**



# CODE DATA

**JURISDICTION:**  
CITY OF FORT COLLINS - BUILDING SERVICES DEPARTMENT POUFRE FIRE AUTHORITY

**APPLICABLE CODES:**  
2021 IBC - INTERNATIONAL BUILDING CODE  
2021 IECC - INTERNATIONAL ENERGY CONSERVATION CODE  
2021 IFC - INTERNATIONAL FIRE CODE  
2021 IFGC - INTERNATIONAL FUEL GAS CODE  
2021 IMC - INTERNATIONAL MECHANICAL CODE  
2021 IPC - INTERNATIONAL PLUMBING CODE  
2023 NEC - NATIONAL ELECTRIC CODE  
2021 IEBC - INTERNATIONAL EXISTING BUILDING CODE  
CITY OF FORT COLLINS - ORDINANCE #021 - BUILDING CODE AMENDMENTS, REVISED JANUARY 24, 2022  
CITY OF FORT COLLINS - LAND USE CODE, REVISED APRIL 4, 2023  
2022 FDA FOOD CODE (ADOPTED JAN 18, 2023)

**ACCESSIBILITY STANDARDS:**  
2017 ICC / ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

**OCCUPANCY GROUP(S):** A-2

**CONSTRUCTION TYPE:** V-B

**SPRINKLER SYSTEM:** NFPA TYPE 13

**OCCUPANCY SEPARATION:** NO

**COMMON PATH OF EGRESS TRAVEL (TABLE 1006.2.1)**  
[A] OCCUPANCY WITH SPRINKLERS 75'-0"

**EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)**  
[A] OCCUPANCY WITH SPRINKLERS 250'-0"

**DEAD END CORRIDORS (TABLE 1020.5)**  
[A] OCCUPANCY WITH SPRINKLERS 20'-0"

**CODE REQUIRED INTERIOR SIGNAGE:**  
THE FOLLOWING SIGNAGE WILL BE REQUIRED BY CODE AS A MINIMUM WHETHER SIGNAGE IS BEING FURNISHED BY THE OWNER THROUGH A VENDOR OR BY THE GC THROUGH A SUB. SIGNAGE LETTERING AND BRAILLE SHALL COMPLY WITH ICC/ANSI A117.1.

- EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE SPACE POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN DOORWAY FROM THE ROOM OR SPACE.
- SIGNAGE ON DOORS TO BATHROOMS
- SIGNAGE ON DOORS TO SPACES POTENTIALLY HAZARDOUS TO THE PUBLIC I.E. MECHANICAL ROOMS, JANITOR'S CLOSETS, ETC.
- SIGNAGE INDICATING ROOF ACCESS

IN ADDITION TO SIGNAGE NOTED ABOVE, WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL BE LOCATED WITHIN 15' OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30' MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT WITH A MINIMUM 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER WORDING.

# PLUMBING CALCS

OCCUPANCY COUNT: 177 OCCUPANTS / 89 PER GENDER

REQUIRED FIXTURES		WATER CLOSETS		LAVATORIES	
M	F	M	F	M	F
1/75	1/75	1/200	1/200	1/200	1/200
1.19	1.19	.445	.445	.445	.445

PROVIDED FIXTURES		WATER CLOSETS		LAVATORIES	
M	F	M	F	M	F
2	2	2	2	2	2

**REQUIRED SERVICE SINKS:** 1 SERVICE SINK

**PROVIDED SERVICE SINKS:** 1 SERVICE SINK

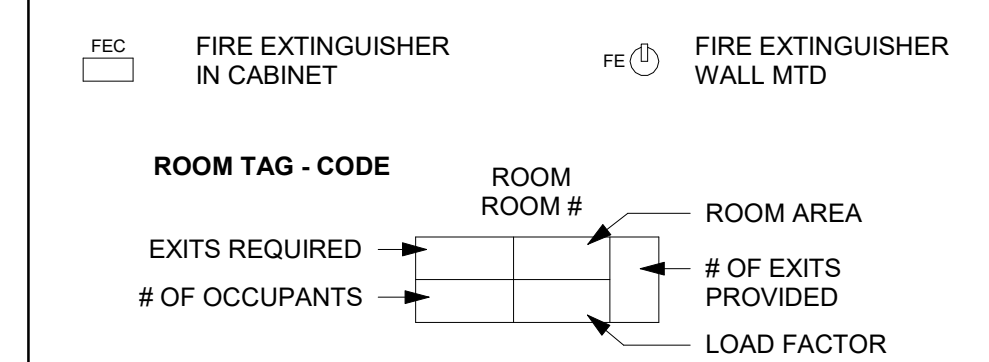
**REQUIRED DRINKING FOUNTAINS:** 1:500

**PROVIDED DRINKING FOUNTAINS:** 2 DRINKING FOUNTAINS

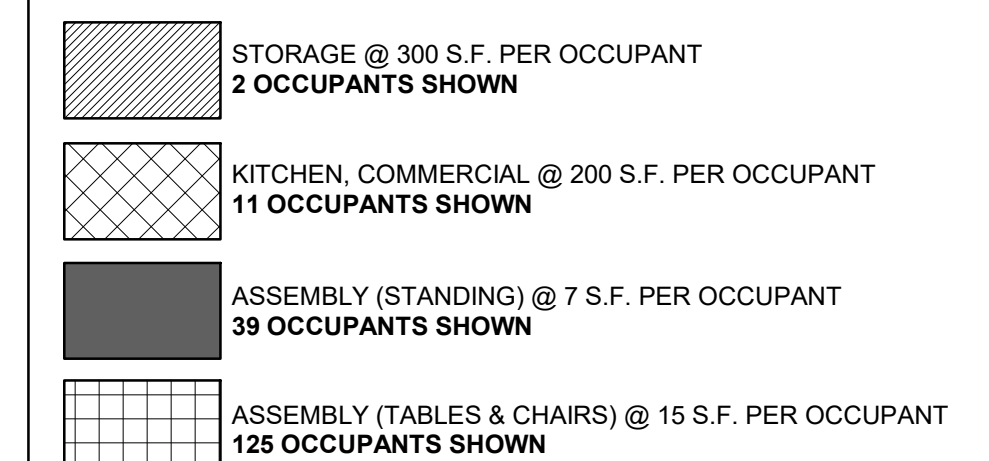
**IPC 410.3**  
WHERE DRINKING FOUNTAINS ARE REQUIRED, NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR PEOPLE WHO USE A WHEELCHAIR AND ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR STANDING PERSONS.

**IPC 410.4 SUBSTITUTION**  
WHERE RESTAURANTS PROVIDE DRINKING WATER IN A CONTAINER FREE OF CHARGE, DRINKING FOUNTAINS SHALL NOT BE REQUIRED IN THOSE RESTAURANTS. IN OTHER OCCUPANCIES WHERE THREE OR MORE DRINKING FOUNTAINS ARE REQUIRED, WATER DISPENSERS SHALL BE PERMITTED TO BE SUBSTITUTED FOR NOT MORE THAN 50 PERCENT OF THE REQUIRED NUMBER OF DRINKING FOUNTAINS.

# CODE REVIEW PLANS LEGEND



# OCCUPANCY TYPE LEGEND



OCCUPANCY COUNT = 177 OCCUPANTS

PROJECT NUMBER: 2024-53

# BONCHON & BROWN DONKATSU

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524



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STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
STRENGTH IN COMMUNITY

# PROJECT TEAM

**STRUCTURAL ENGINEER:**  
LARSEN STRUCTURAL DESIGN

**MECHANICAL ENGINEER:**  
INTEGRATED MEP, LLC.

**PLUMBING ENGINEER:**  
INTEGRATED MEP, LLC.

**ELECTRICAL ENGINEER:**  
APS, INC.

# DESIGN DEVELOPMENT

SHEET ISSUANCES	DESCRIPTION	DATE
DESIGN DEVELOPMENT	CONSTRUCTION DOCUMENTS	09-20-2024 10-11-2024

SEAL:

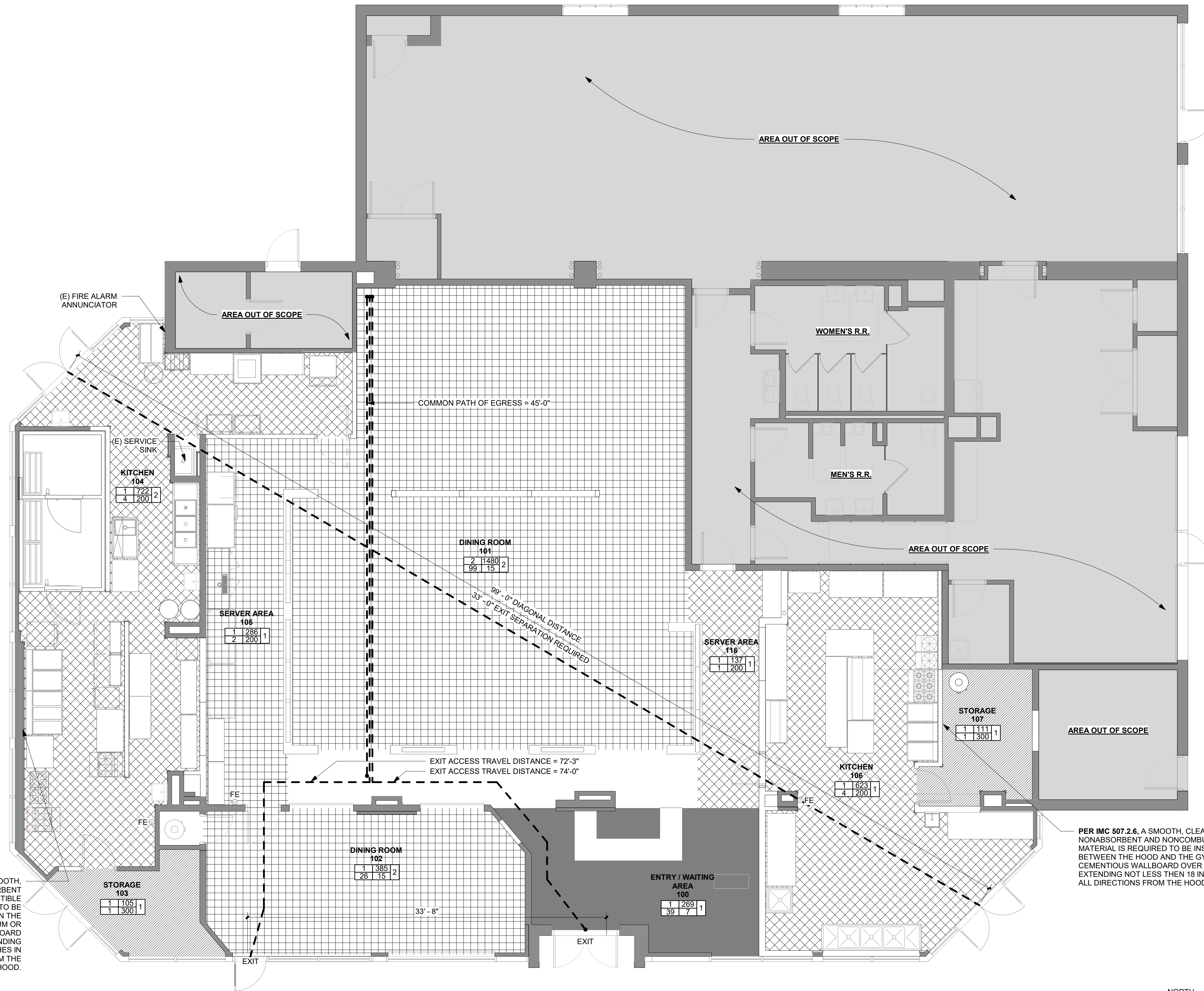


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# CODE REVIEW PLANS

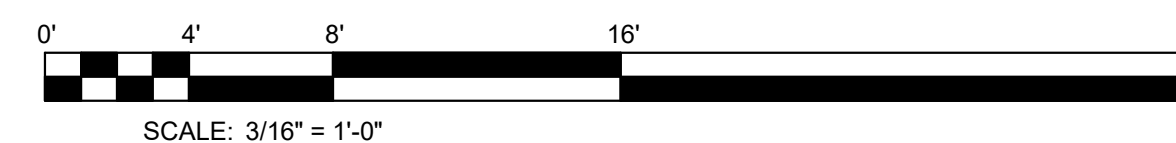
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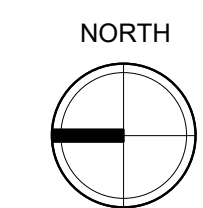


# 1 FIRST FLOOR CODE PLAN

SCALE: 3/16" = 1'-0"



SCALE: 3/16" = 1'-0"

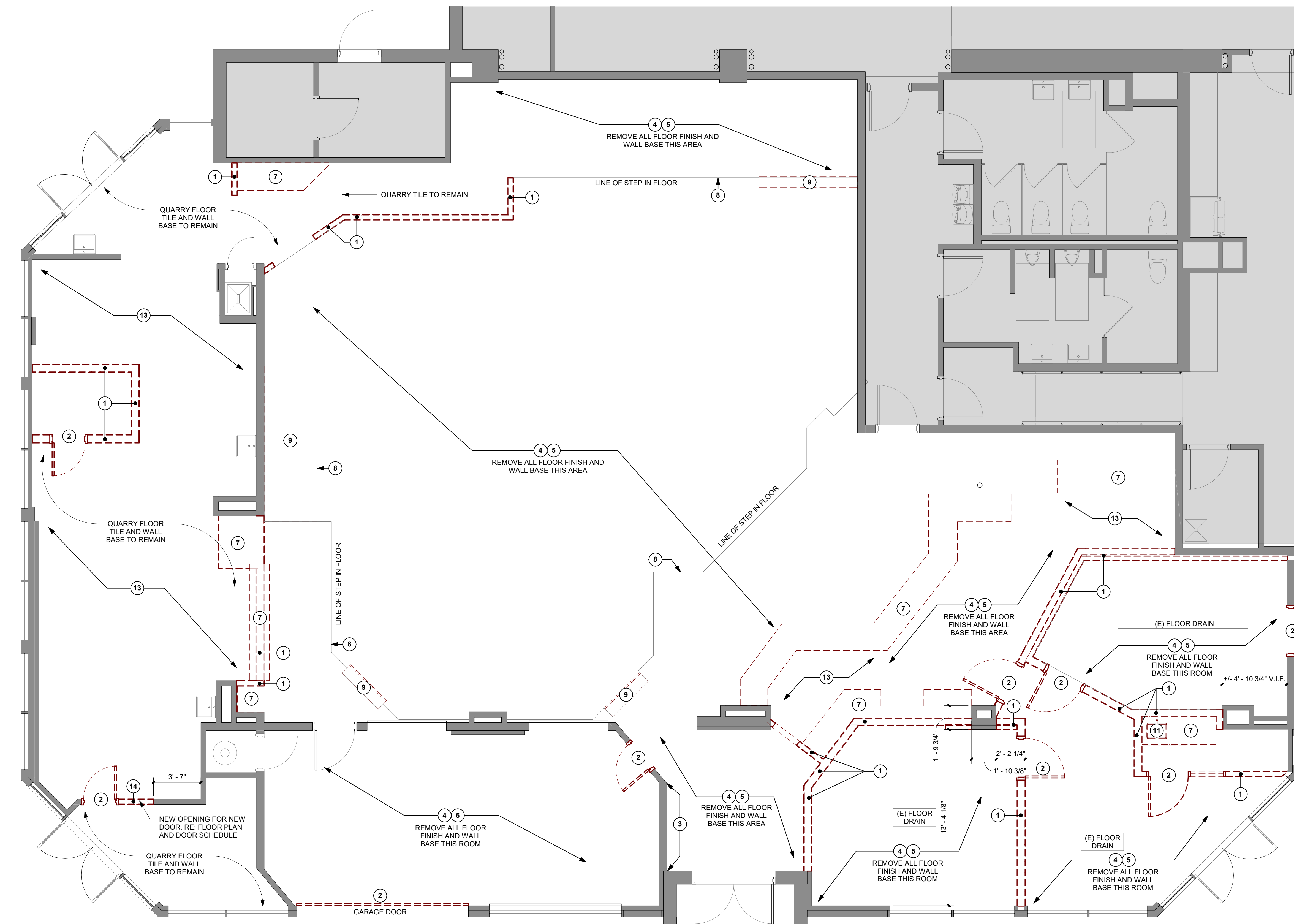


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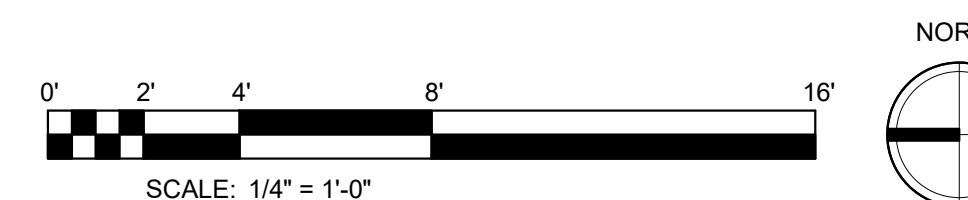
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**1 DEMOLITION FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



**DEMOLITION PLAN GENERAL NOTES**

- GC SHALL FIELD VERIFY ALL ITEMS TO BE SALVAGED WITH OWNER PRIOR TO DEMOLITION
- DEMO/REMOVE EXISTING CONSTRUCTION AS REQUIRED TO ACCOMPLISH INSTALLATION OF NEW BUILDING SYSTEMS AND NEW CONSTRUCTION. PATCH AND REPAIR ALL CONSTRUCTION TO MATCH EXISTING OR TO RECEIVE NEW WORK/FINISHES. GENERAL CONTRACTOR IS TO DETERMINE THE EXTENT OF DEMO REQUIRED. SCOPE OF DEMO EXCEEDS THE SPECIFIC WORK NOTED OR SHOWN ON THIS SHEET.
- THE CONTRACTOR AND SUB-CONTRACTOR SHALL FIELD INSPECT ALL EXISTING CONDITIONS WHICH MAY REMAIN, IDENTIFY ANY DAMAGED CONDITIONS AND PROVIDE PATCHING AND REPAIR AS REQUIRED.
- REMOVE ALL EXPOSED PIPING, CONDUIT, AND FIXTURES THAT ARE UNUSED, ABANDONED OR REPLACED WITH NEW WORK AS A PART OF THIS PROJECT WHETHER SPECIFICALLY NOTED OR NOT WITHIN THE BOUNDARY OF THE SCOPE OF WORK. CONFIRM ALL ITEMS WITH OWNER.
- LEAVE CLEAN, STRAIGHT EDGES WITH NO LOOSE OR CRACKED MATERIAL WHERE NEW FINISHES SUCH AS TRIM OR SEALANT WILL ADJOIN EXISTING FINISHES.
- REMOVE ANY NON-STRUCTURAL EXPOSED METAL FASTENERS INCLUDING WHERE FASTENERS ARE EXPOSED BY DEMOLITION, TYPICAL THROUGHOUT INTERIOR AND EXTERIOR OF THE PROJECT.
- CLEAN AND PREPARE ALL EXISTING SURFACES TO ACCEPT/RECEIVE NEW WORK.
- CAP AND SEAL ALL EXISTING UNUSED PLUMBING, MECHANICAL OR ELECTRICAL UTILITIES. CONCEAL WITHIN WALL OR BELOW SLAB.
- GC SHALL PROVIDE DUST AND SOUND CONTROL AS REQUIRED DURING DEMOLITION AND CONSTRUCTION
- SAW CUT AND REPLACE CONCRETE FLOOR AS REQUIRED FOR INSTALL OF PLUMBING, ELECTRICAL AND OTHER BUILDING SYSTEMS. SEE ELECTRICAL, MECHANICAL AND PLUMBING SHEETS FOR LOCATIONS.
- DUE TO THE AGE OF THE BUILDING DISCREPANCIES ARE EXPECTED. GC SHALL FIELD VERIFY ALL CONDITIONS AND NOTIFY ARCHITECT OF DISCREPANCIES IMMEDIATELY.

**DEMOLITION PLAN LEGEND**

- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO REMAIN
- DEMOLISH PARTITION, DOOR, DOOR FRAME, GLAZING ASSEMBLY, CABINET, SHELVING, FIXTURES SHOWN DASHED U.N.O.

**BUILDING DEMOLITIONS (IBC 3602.1.1):**  
BUILDINGS OR PORTIONS OF BUILDING WHICH ARE REMOVED SHALL BE PROCESSED IN SUCH A WAY AS TO SAFELY REMOVE ALL ASBESTOS AND LEAD PAINT CONTAMINANTS. FOR ALL DEMOLITIONS, A DEMOLITION WASTE MANAGEMENT PLAN ACCEPTABLE TO THE BUILDING OFFICIAL IS REQUIRED AT THE TIME OF APPLICATION FOR A DEMOLITION PERMIT. ALL METALS, ASPHALT, CONCRETE, AND MASONRY THAT ARE FREE OF ASBESTOS AND LEAD PAINT SHALL BE RECYCLED, AND WHERE POSSIBLE, ALL REMAINING MATERIALS SUCH AS DOORS, WINDOWS, CABINETS AND FIXTURES, WOOD, AND CARDBOARD SHALL BE "SOFT STRIPPED" AND RECYCLED. COMPLIANCE SHALL BE CERTIFIED BY INSPECTION, DOCUMENTATION, AND SIGNED FINAL DEMOLITION WASTE MANAGEMENT PLANS. SUBSTANTIVE CHANGES TO THE PLAN SHALL BE SUBJECT TO PRIOR APPROVAL BY THE BUILDING OFFICIAL.

**DEMO PLAN KEYED NOTES LEGEND**

- REMOVE (E) WALL AS INDICATED (VIF)
- REMOVE (E) DOOR / JAMB ASSEMBLY (VIF)
- REMOVE (E) WALL FINISH (VIF)
- REMOVE (E) FLOOR FINISH AND ALL ASSOCIATED ADHESIVE / GROUT RESIDUE (VIF)
- REMOVE (E) WALL BASE
- REMOVE EXTENT OF (E) CEILING / SOFFIT (VIF)
- REMOVE (E) CASEWORK / FURNITURE
- REMOVE (E) HANDRAILS / GUARDRAILS
- REMOVE (E) STAIR / RAMP
- REMOVE (E) LIGHT FIXTURES, AND ASSOCIATED CONDUIT, J-BOXES, RECEPTACLES, ETC AS REQ'D U.N.O. (VIF), RE: ARCH AND ELEC DWGS
- REMOVE (E) PLUMBING FIXTURES AND ASSOCIATED PIPING NOT SCHEDULED TO REMAIN; FIELD VERIFY EXTENT OF REMOVAL BACK TO MAIN SERVICE ELEMENTS: COORD W/ ARCH AND PLUMBING DWGS
- REMOVE / MODIFY (E) HVAC SYSTEM COMPONENTS: COORD EXTENT OF MODIFICATIONS PER ARCH AND MECH DWGS
- REMOVE EXISTING KITCHEN EQUIPMENT, CONFIRM ALL ITEMS TO BE SALVAGED PRIOR TO DEMOLITION W/ OWNER
- PROVIDE NEW OPENING IN EXISTING WALL (VIF), COORD W/ STRUCT DWGS AND ARCH PLANS

PROJECT NUMBER: 2024-53

**BONCHON & BROWN DONKATSU**

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524



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970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
STRENGTH IN COMMUNITY

**PROJECT TEAM**

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:  
INTEGRATED MEP, LLC.

PLUMBING ENGINEER:  
INTEGRATED MEP, LLC.

ELECTRICAL ENGINEER:  
APS, INC.

**DESIGN DEVELOPMENT**

DESCRIPTION	DATE
DESIGN DEVELOPMENT	09-20-2024
CONSTRUCTION DOCUMENTS	10-11-2024

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**DEMOLITION FLOOR PLAN**

DRAWING NUMBER:

**A0.1**

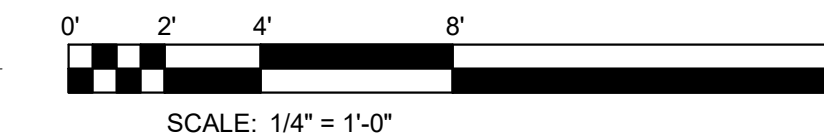
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**DEMOLITION REFLECTED CEILING PLAN**

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



**DEMOLITION PLAN GENERAL NOTES**

- GC SHALL FIELD VERIFY ALL ITEMS TO BE SALVAGED WITH OWNER PRIOR TO DEMOLITION
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**DEMOLITION PLAN LEGEND**

- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO REMAIN
- DEMOLISH PARTITION, DOOR, DOOR FRAME, GLAZING ASSEMBLY, CABINET, SHELVING, FIXTURES SHOWN DASHED U.N.O.

**BUILDING DEMOLITIONS (IBC 3602.1.1):**

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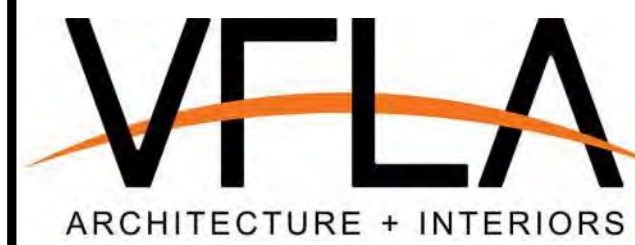
**DEMO PLAN KEYED NOTES LEGEND**

- REMOVE (E) WALL AS INDICATED (VIF)
- REMOVE (E) DOOR / JAMB ASSEMBLY (VIF)
- REMOVE (E) WALL FINISH (VIF)
- REMOVE (E) FLOOR FINISH AND ALL ASSOCIATED ADHESIVE / GROUT RESIDUE (VIF)
- REMOVE (E) WALL BASE
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- REMOVE (E) STAIR / RAMP
- REMOVE (E) LIGHT FIXTURES, AND ASSOCIATED CONDUIT, J-BOXES, RECEPTACLES, ETC AS REQ'D U.N.O. (VIF), RE: ARCH AND ELEC DWGS
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STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
STRENGTH IN COMMUNITY

**PROJECT TEAM**

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:  
INTEGRATED MEP, LLC.

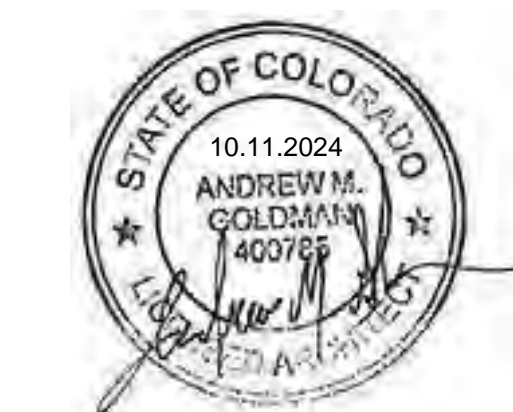
PLUMBING ENGINEER:  
INTEGRATED MEP, LLC.

ELECTRICAL ENGINEER:  
APS, INC.

**DESIGN DEVELOPMENT**

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**DEMOLITION REFLECTED CEILING PLAN**

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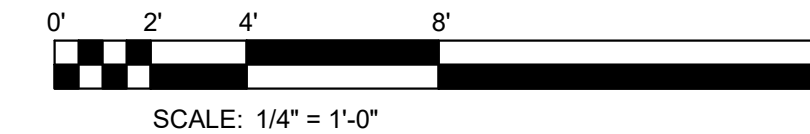
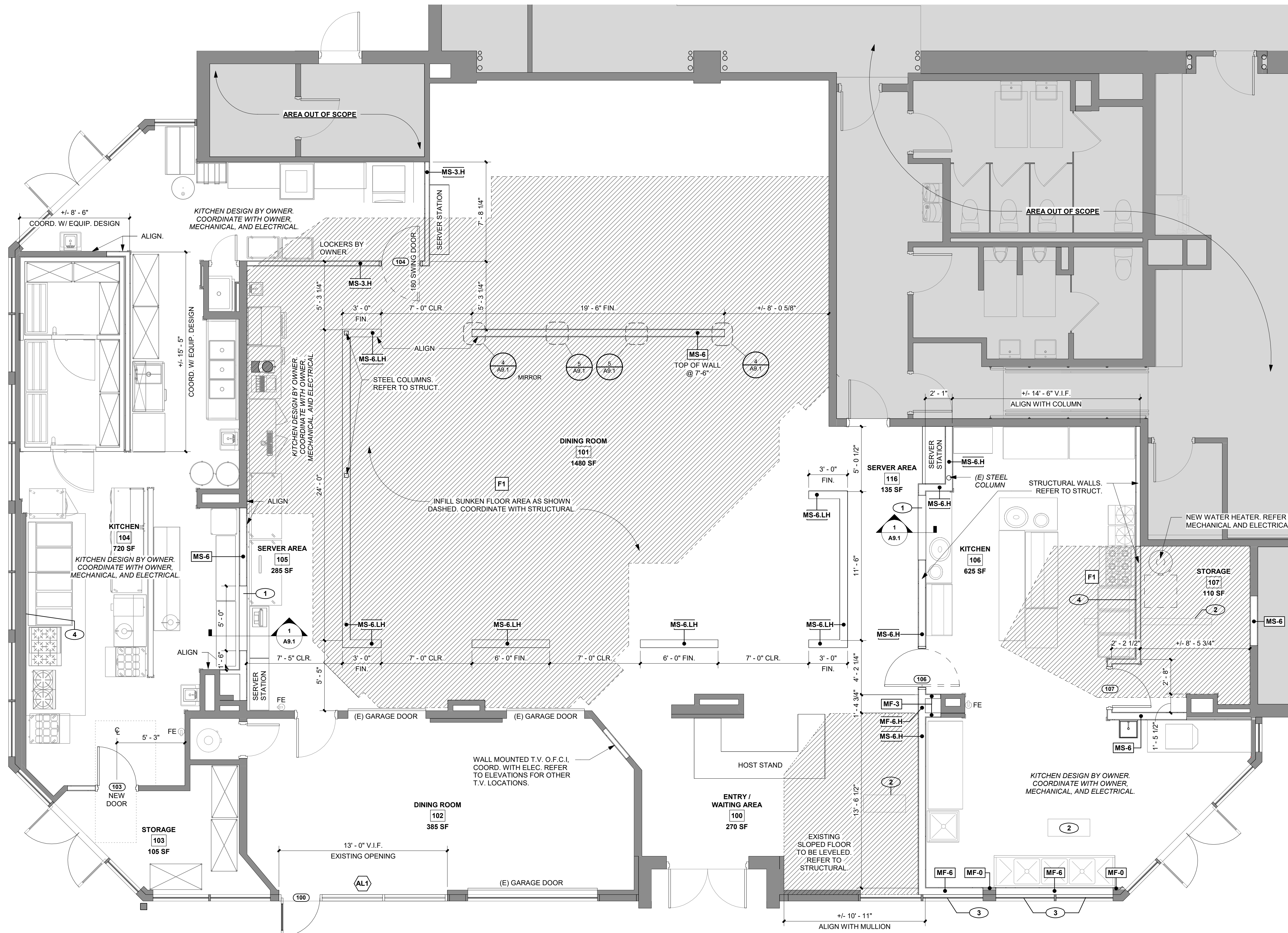
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# FLOOR PLAN

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



### FLOOR PLAN GENERAL NOTES

- REFER TO SHEET G0.3 FOR SYSTEM NOTES
- REFER TO FINISH PLANS FOR FLOOR FINISHES / INTERIOR CASEWORK ELEVATION TAGS AND INTERIOR ELEVATION VIEWS FOR WALL FINISHES
- REFER TO A7.1 FOR DOOR AND WINDOW SCHEDULE
- PARTITIONS TO BE "MS-3" U.N.O. SEE SHEET G0.3 FOR PARTITION SCHEDULE
- ALL SCHEDULED INTERIOR DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE 4" MIN FROM THE ADJACENT WALL FACE OF FINISH, U.N.O.
- ALL EXPOSED SLAB-ON-GRADE JOINTS, INCLUDING PERIMETER JOINTS, SHALL BE FILLED WITH SEALANT; GC SHALL VERIFY SEALANT COLOR WITH ARCHITECT FOR ALL JOINTS EXPOSED TO VIEW
- GC SHALL PRIME AND PAINT ALL EXPOSED STEEL. RE: INTERIOR FINISH LEGEND FOR SCHEDULED COLOR
- GC SHALL COORDINATE LOCATION AND EXTENT OF PLYWOOD BACKING AND/OR 2x BLOCKING AT ALL SCHEDULED ACCESSORY LOCATIONS INCLUDING BUT NOT LIMITED TO EQUIPMENT, TOILET ACCESSORIES, RESTROOM PARTITIONS, GRAB BARS, HANDRAILS, SHELVES, WALL-MOUNTED CABINETS, CLOSET RODS, MOUNTING BRACKETS, SHOWER ENCLOSURES AND WALL-MOUNTED TV'S
- FLOOR FINISHES LEFT OFF PLAN FOR CLARITY. REFER TO SHEET A8.1 FOR FINISH PLANS
- CONTROL JOINTS IN GYP WALLS AND CEILINGS TO BE INSTALLED EVERY 30' MAX PER MANUFACTURER
- ALL EXPOSED PLUMBING, PIPING, CLEANOUT COVERS, CONDUIT, SPRINKLERS, ETC SHALL BE PAINTED TO MATCH ADJACENT FINISH, TYP U.N.O.
- THE OWNER IS RESPONSIBLE FOR COORDINATING INTERIOR SIGNAGE AND ARTWORK AS REQ'D.
- THE OWNER IS RESPONSIBLE FOR COORDINATING DESIGN APPROVAL BY FRANCHISE ENTITY.
- KITCHEN DESIGN BY OTHERS: KITCHEN EQUIPMENT IS SUPPLIED AND INSTALLED BY THE KITCHEN EQUIPMENT VENDOR. GC TO COORDINATE INSTALLATION OF MECHANICAL, ELECTRICAL, AND PLUMBING. SEE KITCHEN EQUIPMENT SHOP DRAWINGS, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. G.C. TO MAKE FINAL CONNECTIONS.
- GC SHALL PROVIDE AND VERIFY QUANTITY /LOCATION OF FIRE EXTINGUISHERS PER LOCAL AHJ
- REPLACE OR REPAIR DAMAGED, DETERIORATED OR UNSUITABLE SUBSTRATES AS REQUIRED TO RECEIVE NEW WALL FINISHES AS SCHEDULED.
- DUE TO THE AGE OF THE BUILDING DISCREPANCIES ARE EXPECTED. GC SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT & OWNER'S REP OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, GC SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE AND BELOW GRADE UTILITIES INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT & OWNER'S REP.
- GC SHALL BE RESPONSIBLE FOR VERIFICATION OF THE BUILDING'S STRUCTURAL SYSTEM. STRUCTURAL MEMBERS, INCLUDING BEARING AND SHEAR WALLS, SHALL NOT BE REMOVED, CUT OR OTHERWISE MODIFIED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.
- GC SHALL COORDINATE NEW CONSTRUCTION INCLUDING MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL WORK WITH EXISTING STRUCTURE.
- ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.

### FLOOR PLAN LEGEND

- EXISTING WALLS TO REMAIN
- NEW PARTITIONS/WALLS. SEE SCHEDULE FOR TYPE.
- FIRE EXTINGUISHER WALL MTD
- FLOOR DRAIN: SEE PLUMBING DRAWINGS FOR TYPE. REMOVE (E) CONCRETE FLOOR AS REQUIRED TO INSTALL
- WATER HEATER  
SEE PLUMBING DRAWINGS FOR TYPE
- NO WORK THIS AREA (NOT IN SCOPE)
- FLOOR AREA TO BE INFILLED AND/OR LEVELED. COORDINATE WITH STRUCTURAL

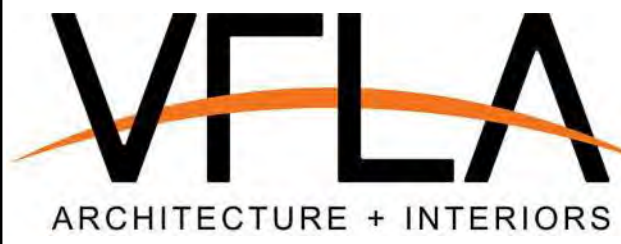
### PLAN / RCP KEYED NOTES LEGEND

- EXPO PASSTHROUGH. 5'-0" W X 2'-0" H, 3'-0" A.F.F.
- INFILL AT EXISTING FLOOR DRAIN. COORDINATE WITH STRUCTURAL.
- WINDOW FILM TO BE APPLIED FULL HEIGHT TO INTERIOR FACE OF EXISTING GLAZING
- AT TYPE I HOODS A SMOOTH, CLEANABLE, NONABSORBENT AND NONCOMBUSTIBLE MATERIAL IS REQUIRED TO BE INSTALLED BETWEEN THE HOOD AND THE GYPSUM OR CEMENTIOUS WALLBOARD OVER AN AREA EXTENDING NOT LESS THAN 18 INCHES IN ALL DIRECTIONS FROM THE HOOD.

PROJECT NUMBER: 2024-53

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STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
STRENGTH IN COMMUNITY

### PROJECT TEAM

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:  
INTEGRATED MEP, LLC.

PLUMBING ENGINEER:  
INTEGRATED MEP, LLC.

ELECTRICAL ENGINEER:  
APS, INC.

### DESIGN DEVELOPMENT

SHEET ISSUANCES	DESCRIPTION	DATE
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### FLOOR PLAN

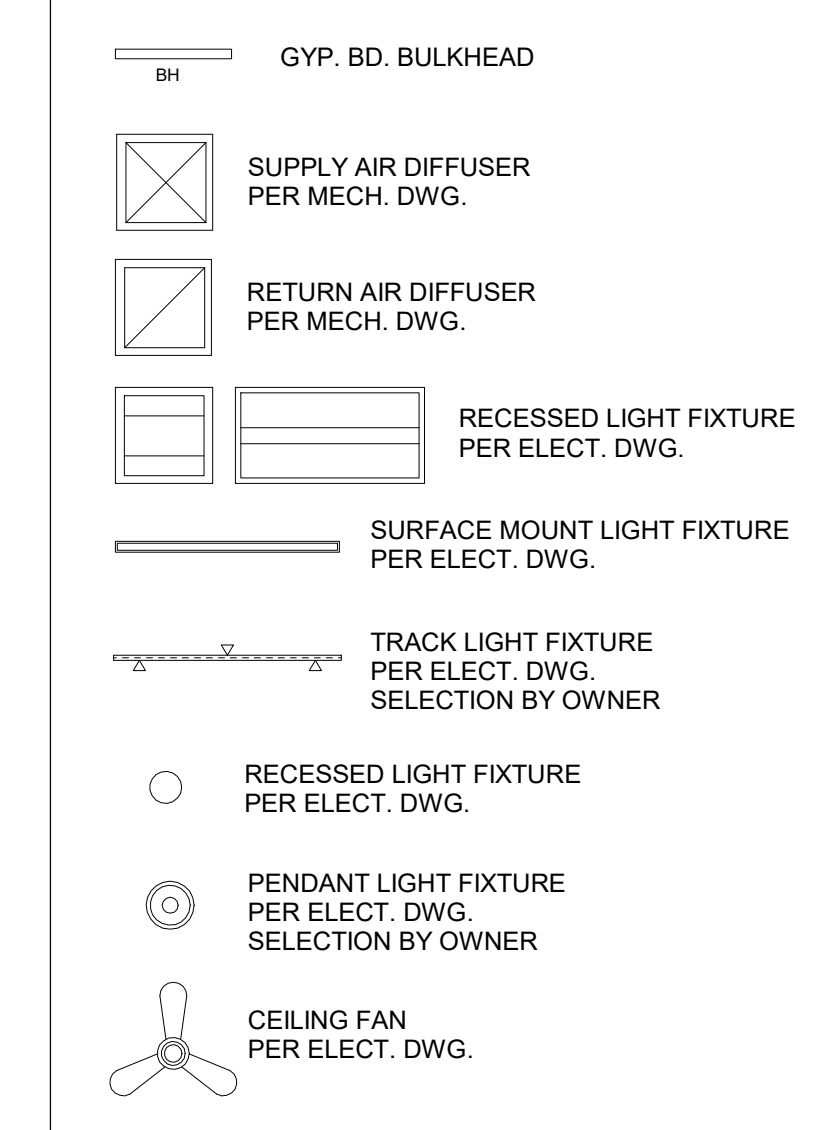
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**RCP GENERAL NOTES**

- GC SHALL PRIME AND PAINT ALL EXPOSED STEEL, U.N.O.
- GC SHALL COORDINATE SCHEDULED LIGHTING WITH FURNITURE AND CASEWORK SHOWN BELOW PER FINISH AND CASEWORK PLANS. COORDINATE FINAL LOCATIONS AND TYPES WITH OWNER.
- INSTALL ALL LIGHTS PER LOCATION SHOWN ON ARCHITECTURAL RCP. REFER TO ELECTRICAL DWGS FOR LIGHT TYPES
- GC SHALL COORDINATE ALL SUSPENDED MOUNTING HEIGHTS W/ ARCHITECT PRIOR TO INSTALLATION, U.N.O.
- REFER TO ELEVATION DWGS FOR WALL-MOUNTED LIGHT FIXTURE HEIGHT DIMENSIONS
- CENTER ACT PANELS IN ROOM, TYP U.N.O.
- ALL BULKHEADS TO BE MS-6, U.N.O.
- ALL EXISTING CEILINGS TO REMAIN ARE TO BE PATCHED AND REPAIRED AS NEEDED.
- INSTALL DIFFUSERS PER LOCATION SHOWN ON ARCHITECTURAL RCP. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER TYPES
- ALL FIRE SPRINKLER HEADS AND RECESSED CAN LIGHTS SHALL BE LOCATED AT CENTER OF CEILING TILES. SPRINKLER HEADS & ESCUTCHEONS IN WOOD CEILINGS TO BE BROWN OR BLACK
- ALL EXPOSED PLUMBING, CONDUIT, SPRINKLERS, ETC SHALL BE PAINTED TO MATCH ADJACENT CEILING FINISH, TYP U.N.O.
- ALL EXPOSED SUPPORTING WIRES, CONDUIT AND SERVICE LINES SHALL BE MOUNTED IN A CLEAN AND ORGANIZED ARRANGEMENT WITH THEIR ROUTING PARALLEL OR PERPENDICULAR TO ADJACENT ROOF FRAMING, TYP
- REFER TO GENERAL FINISH NOTES (A8.0) FOR ADDITIONAL FINISH INFORMATION
- REFER TO INTERIOR FINISH NOTES (A8.0) FOR FINISH ON DUCTWORK AND GRILLES
- DUE TO THE AGE OF THE BUILDING DISCREPANCIES ARE EXPECTED. GC SHALL FIELD VERIFY ALL CONDITIONS AND NOTIFY ARCHITECT AND OWNER OF DISCREPANCIES IMMEDIATELY.

**RCP LIGHTING TYPE LEGEND**



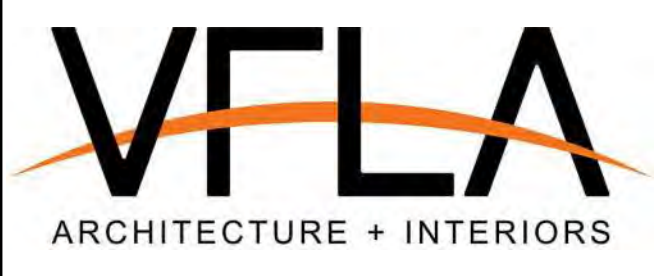
**CEILINGS**

- C1 EXPOSED STRUCTURE**
  - EXPOSED ROOF DECK & STRUCTURE.
  - PAINT (PT-2)
- C2 GYPSUM BOARD**
  - 5/8" GYPSUM BOARD (PAINTED)
  - METAL FRAMING OR METAL SUSPENSION SYSTEM (CONTRACTOR OPTION)
- ACT**
  - 24"x24" ACOUSTIC CEILING TILE IN 9/16" PREFIN. METAL SUSPENSION SYSTEM (WHITE)
  - MANUFACTURER AS DETERMINED BY G.C.
- EXISTING CEILING**
  - TO REMAIN
  - PATCH AND REPAIR AS NEEDED

PROJECT NUMBER: 2024-53

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STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
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**PROJECT TEAM**

- STRUCTURAL ENGINEER:** LARSEN STRUCTURAL DESIGN
- MECHANICAL ENGINEER:** INTEGRATED MEP, LLC.
- PLUMBING ENGINEER:** INTEGRATED MEP, LLC.
- ELECTRICAL ENGINEER:** APS, INC.

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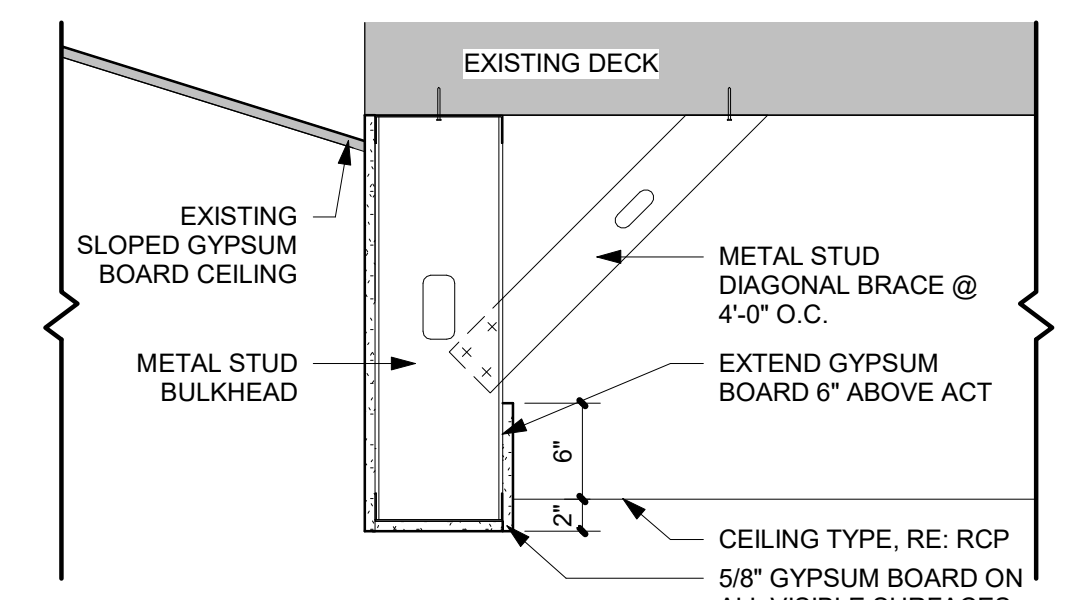


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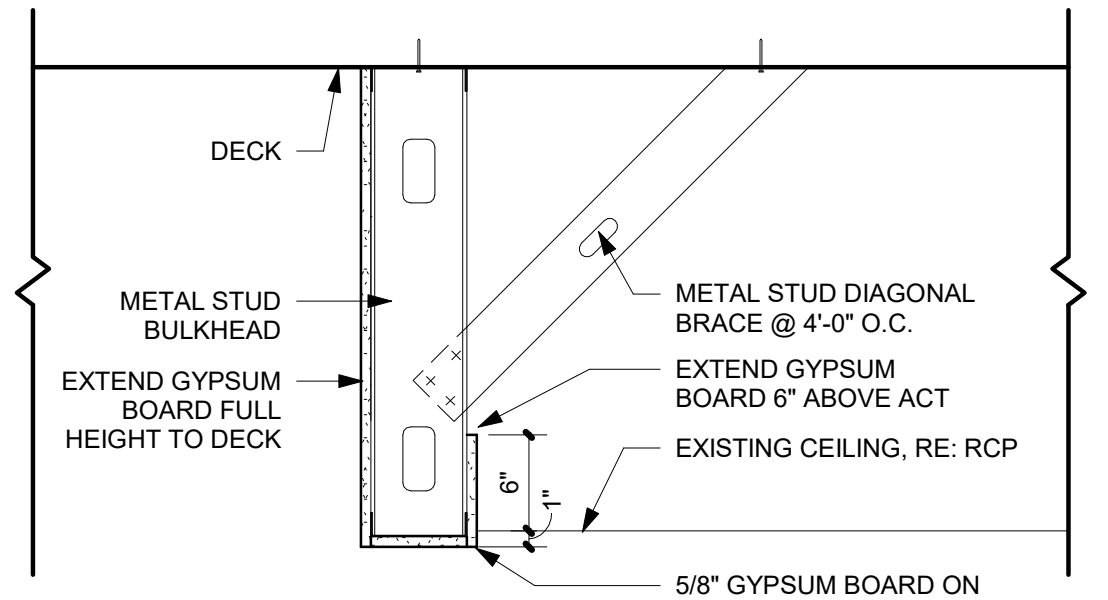
**REFLECTED CEILING PLAN**

DRAWING NUMBER:

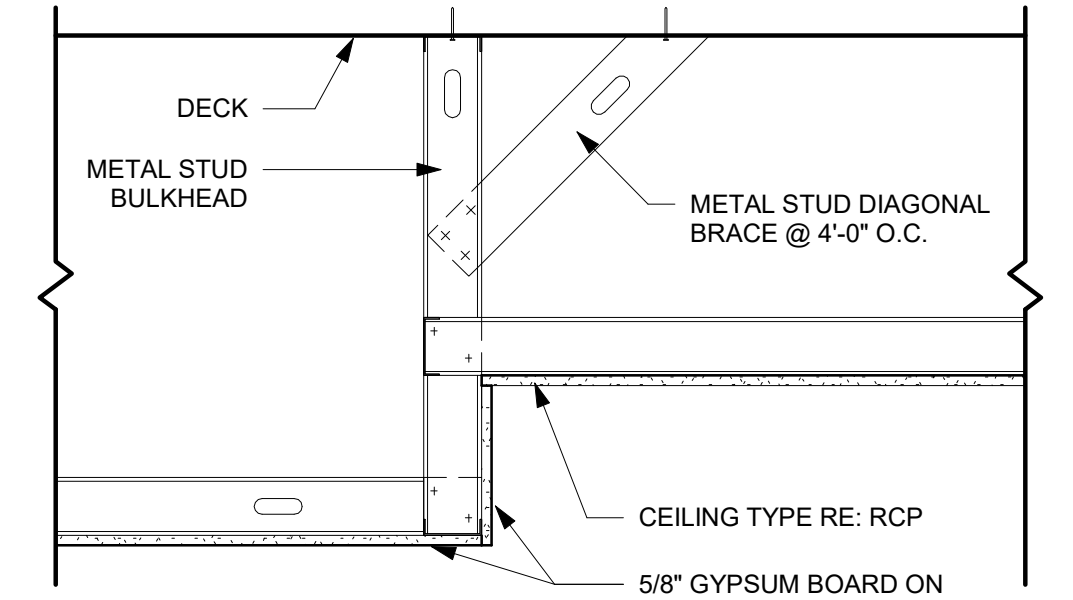
**A2.0**



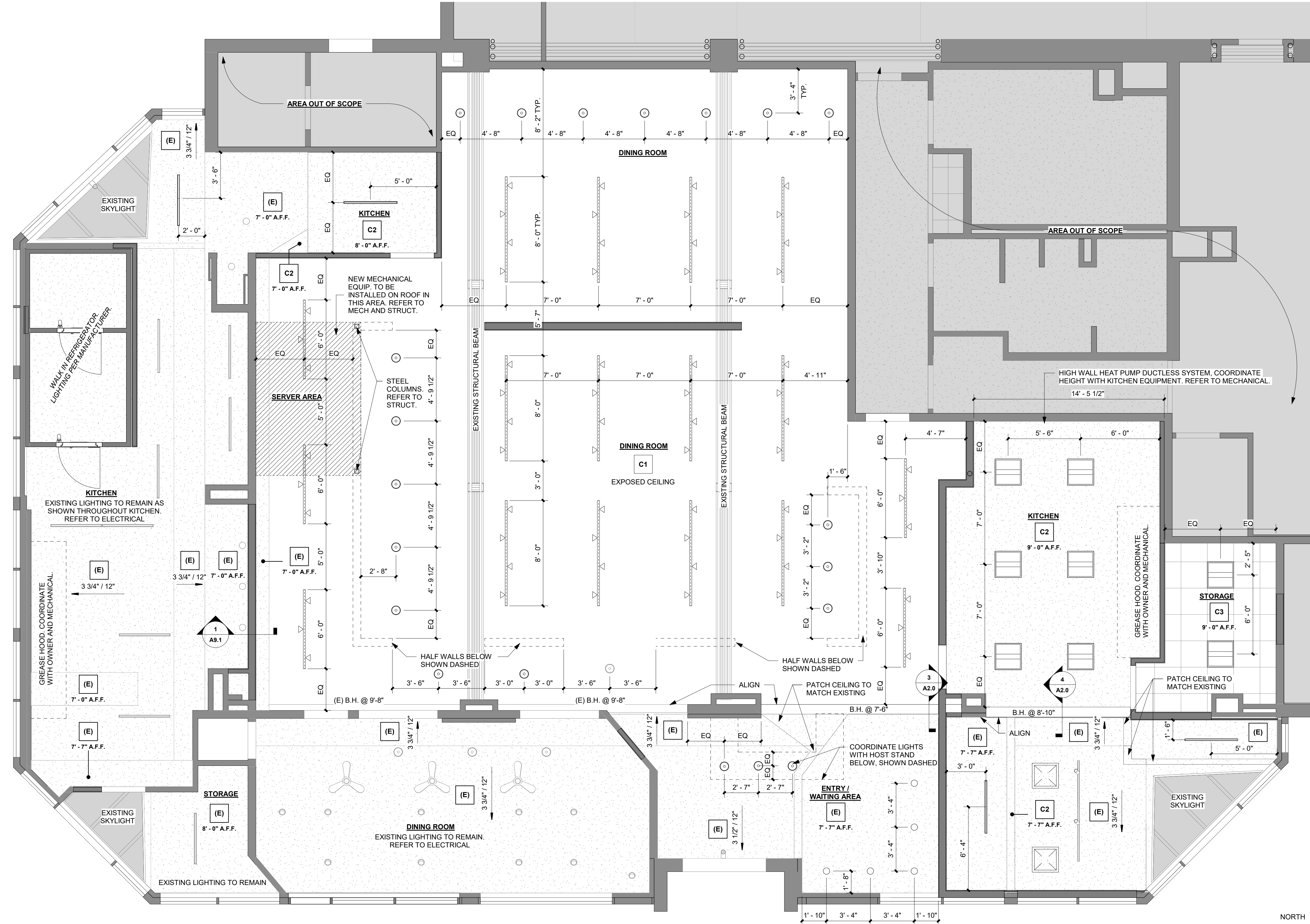
**4 BULKHEAD DETAIL - METAL STUD**  
SCALE: 1" = 1'-0"



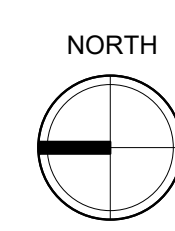
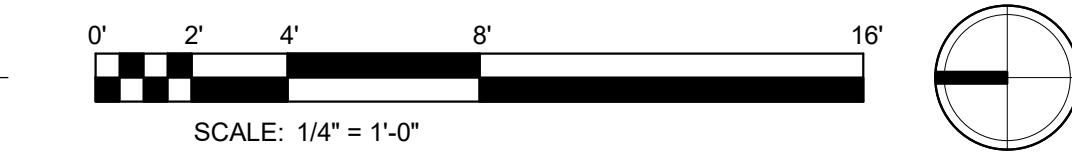
**3 BULKHEAD DETAIL - METAL STUD - EXPOSED CEILING**  
SCALE: 1" = 1'-0"



**2 GYP. BD. RETURN DETAIL - METAL STUD**  
SCALE: 1" = 1'-0"



**1 REFLECTED CEILING PLAN - FIRST FLOOR**  
SCALE: 1/4" = 1'-0"



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DOOR SCHEDULE															
NUMBER	DOOR							FRAME			HARDWARE SET	DETAILS			COMMENTS
	TYPE	# OF PANELS	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH		HEAD	JAMB	SILL	
FIRST FLOOR - RESTAURANT															
100	D-3		3'-0"	6'-10"	1 3/4"	ALUM / GLS	PREFIN	AL1	ALUM	PREFIN	3	-	-	-	
103	D-1		3'-0"	7'-0"	1 3/4"	HM	PTD	HM1	HM	PTD	1	1/A7.1	1/A7.1	-	
104	D-2		3'-0"	7'-0"	1 3/4"	ALUM	PREFIN	HM1	HM	PTD	2	1/A7.1	1/A7.1	-	
106	D-2		3'-0"	7'-0"	1 3/4"	ALUM	PREFIN	HM1	HM	PTD	2	1/A7.1	1/A7.1	-	
107	D-1		3'-0"	7'-0"	1 3/4"	HM	PTD	HM1	HM	PTD	1	1/A7.1	1/A7.1	-	

- DOOR AND WINDOW NOTES**
- ALL EXTERIOR DOORS SHALL BE INSULATED AND WEATHER-STRIPPED PER MFR.
  - CONTRACTOR SHALL PROVIDE STOREFRONT AND DOOR SHOP DRAWINGS FOR ARCHITECT REVIEW PRIOR TO ORDERING.
  - WHERE SCHEDULED DOOR FINISH IS TBD, CONTRACTOR SHALL PROVIDE SAMPLES TO OWNER AND ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
  - DOOR / WINDOW MANUFACTURER SHALL PROVIDE COLOR COORDINATING GLASS SPACERS AT ALL INSULATED GLASS ASSEMBLIES (IE BLACK SPACERS FOR BLACK FRAMES AND BRONZE SPACERS AT BRONZE FRAMES, ETC)
  - GC SHALL COORDINATE KEYING OF ALL EXISTING AND NEW LOCKSETS PER OWNER'S DIRECTION.
  - REFER TO PLANS FOR DOOR LOCATIONS AND SWING DIRECTIONS.
  - MAXIMUM DOOR OPERATING PRESSURE : 5 LBS INTERIOR ; 8.5 LBS EXTERIOR MEASURED AT 90 DEGREES TO THE DOOR AT STRIKE EDGE.

**DOOR HARDWARE GROUPS**

**NOTE:**  
HARDWARE AND LOCK SYSTEMS TO BE DISCUSSED AND CONFIRMED WITH CLIENT, HARDWARE SUB, GC AND ARCHITECT

**HARDWARE SET #1 - STORAGE**  
HINGES  
WALL STOP  
DOOR SILENCER  
LEVER TYPE LOCKSET TO BE DETERMINED

**HARDWARE SET #2 - KITCHEN ENTRY**  
HINGES - 180 DEGREE DOUBLE ACTING SWING (MANUFACTURER PROVIDED)  
KICKPLATE BOTH SIDES

**HARDWARE SET #3 - RESTAURANT ENTRY DOOR**  
CYLINDER LOCK  
CONTINUOUS HINGES BY STOREFRONT MANUFACTURER  
SURFACE CLOSER, FINISH TO MATCH FRAME  
THRESHOLD - MILL FINISH ALUMINUM  
CONTINUOUS DOOR SEALS, BLACK  
DOOR SWEEPS, FINISH TO MATCH DOOR  
SURFACE MOUNTED EXIT HARDWARE, FINISH TO MATCH DOOR COLOR  
VERTICAL BAR PULLS - TO MATCH EXISTING DOOR SETS, FINISH TO MATCH NEW DOOR

**DOOR SCHEDULE SYMBOLS & ABBREVIATIONS**

- (T) TEMPERED GLASS PANEL
- ABBREVIATIONS**  
ALUM ALUMINUM  
HM HOLLOW METAL  
PREFIN PRE-FINISHED  
PTD PAINTED  
S&C SAND AND CLEAR FINISH (FACTORY APPLIED)  
STL STEEL  
WD WOOD

**FORT COLLINS LOCAL AMENDMENT RE FENESTRATION INSTALLATION:**  
FOR ALL NEW CONSTRUCTION AND ADDITIONS, ALL NEW FENESTRATION INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA) STANDARDS/SPECIFICATIONS FOR WINDOWS, DOORS AND SKYLIGHTS AND SHALL BE SUPERVISED BY AN INDIVIDUAL CERTIFIED AS AN INSTALLATION MASTER BY ARCHITECTURAL TESTING INC. (ATI) OR OTHER NATIONALLY RECOGNIZED AGENCY ACCEPTABLE TO THE CITY OF FORT COLLINS BUILDING OFFICIAL. THE CERTIFIED INDIVIDUAL MAY BE EMPLOYED BY THE GENERAL CONTRACTOR OR ONE OF HIS SUBCONTRACTORS OR MAY BE AN INDEPENDENT INSPECTOR EMPLOYED BY THE G.C. THE CITY OF FORT COLLINS OFFERS CLASSES TO INDIVIDUALS FOR CERTIFICATION AS AN INSTALLATION MASTER. NOTE THAT CERTIFICATION IS AVAILABLE ONLY TO INDIVIDUALS, NOT TO COMPANIES. NOTE THAT THE ARCHITECT WILL NOT PROVIDE CERTIFIED SUPERVISION OR INSPECTION OF FENESTRATION INSTALLATION. A REPORT CERTIFYING COMPLIANT INSTALLATION OF FENESTRATION MUST BE SUBMITTED TO THE OWNER, ARCHITECT, AND THE CITY OF FORT COLLINS BUILDING OFFICIAL ON THE CITY'S FORM BEFORE A CERTIFICATE OF OCCUPANCY CAN BE OBTAINED.

**IBC 2406.3 IDENTIFICATION OF SAFETY GLAZING:**  
EXCEPT AS INDICATED IN SECTION 2406.3.1, EACH PANE OF SAFETY GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BE IDENTIFIED BY A MANUFACTURER'S DESIGNATION SPECIFYING WHO APPLIED THE DESIGNATION, THE MANUFACTURER OR INSTALLER AND THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES, AS WELL AS THE INFORMATION SPECIFIED IN SECTION 2403.1. THE DESIGNATION SHALL BE ACID ETCHED, SAND BLASTED, CERAMIC FIRED, LASER ETCHED, EMBOSSED OR OF A TYPE THAT ONCE APPLIED, CANNOT BE REMOVED WITHOUT BEING DESTROYED. A LABEL MEETING THE REQUIREMENTS OF THIS SECTION SHALL BE PERMITTED IN LIEU OF THE MANUFACTURER'S DESIGNATION.

**IBC 2406.4.1 GLAZING IN DOORS**  
GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS SHALL BE CONSIDERED A HAZARDOUS LOCATION.

**2406.4.2 GLAZING ADJACENT TO DOORS**  
GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24-INCH (610 MM) ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES (1524 MM) ABOVE THE WALKING SURFACE SHALL BE CONSIDERED A HAZARDOUS LOCATION.

**2406.4.3 GLAZING IN WINDOWS**  
GLAZING IN AN INDIVIDUAL FIXED, OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED A HAZARDOUS LOCATION:

- THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET (0.84 M2).
- THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES (457 MM) ABOVE THE FLOOR.
- THE TOP EDGE OF THE GLAZING IS GREATER THAN 36 INCHES (914 MM) ABOVE THE FLOOR.
- ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36 INCHES (914 MM), MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.

**STOREFRONT GENERAL NOTES**

- ALUMINUM STOREFRONT WINDOW SYSTEM - BASIS OF DESIGN: KAWNEER 451T OR OLDCASTLE 3000 THERMAL MULTIPANE, AND TUBELITE TU24000 OR APPROVED SUBSTITUTIONS. **DARK BRONZE ANODIZED FINISH** OR APPROVED EQUAL (CONFIRM MATCH TO EXISTING)
- ALL EXTERIOR FRAMES TO BE ALUMINUM STOREFRONT U.N.O. ALL EXTERIOR ALUM. FRAMES TO BE THERMALLY BROKEN FRAMES. PROVIDE SAMPLE OF FRAME IN SUBMITTAL. ASSEMBLY U-FACTOR NOT TO EXCEED 0.36
- PROVIDE MATCHING BRAKE METAL COVERS AND ACCESSORIES WHERE REQUIRED TO MEET ADJACENT CONSTRUCTION, U.N.O.
- EXTERIOR GLAZING TO BE PPG 1" LOW-E SOLARBAN 72 INSULATED GLASS, CLEAR + CLEAR, U.N.O. MAX U (WINTER) 0.29 (SUMMER) 0.24 **MAX SHGC 0.33.**
- MAX AIR LEAKAGE RATE SHALL BE 0.2 CUBIC FOOT PER MINUTE PER SQUARE FOOT OF FENESTRATION AREA PER 2021 IECC.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL OPENING SIZES BEFORE PROCEEDING WITH FABRICATION.
- DIMENSIONS PROVIDED REPRESENT NOMINAL UNIT SIZE. INSTALLER TO PROVIDE ADDITIONAL ALLOWANCES FOR CONSTRUCTION TOLERANCES, BLOCKING, SHIMMING, ATTACHMENTS, ETC.
- PROVIDE ELASTOMERIC JOINT SEALANT AT PERIMETER OF STOREFRONT UNITS, TYPICAL. DO NOT BLOCK WEEP HOLES OR OTHER DRAINAGE PATHWAYS
- PROVIDE SAFETY GLAZING AT LOCATIONS INDICATED AND AS REQUIRED BY 2021 IBC AND PROJECT CONDITIONS.

PROJECT NUMBER: 2024-53

**BONCHON & BROWN DONKATSU**

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524



419 CANYON AVE STE 200, FORT COLLINS, CO 80521  
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
STRENGTH IN COMMUNITY

**PROJECT TEAM**

**STRUCTURAL ENGINEER:**  
LARSEN STRUCTURAL DESIGN

**MECHANICAL ENGINEER:**  
INTEGRATED MEP, LLC.

**PLUMBING ENGINEER:**  
INTEGRATED MEP, LLC.

**ELECTRICAL ENGINEER:**  
APS, INC.

**DESIGN DEVELOPMENT**

DESCRIPTION	DATE
DESIGN DEVELOPMENT	09-20-2024
CONSTRUCTION DOCUMENTS	10-11-2024

SEAL:

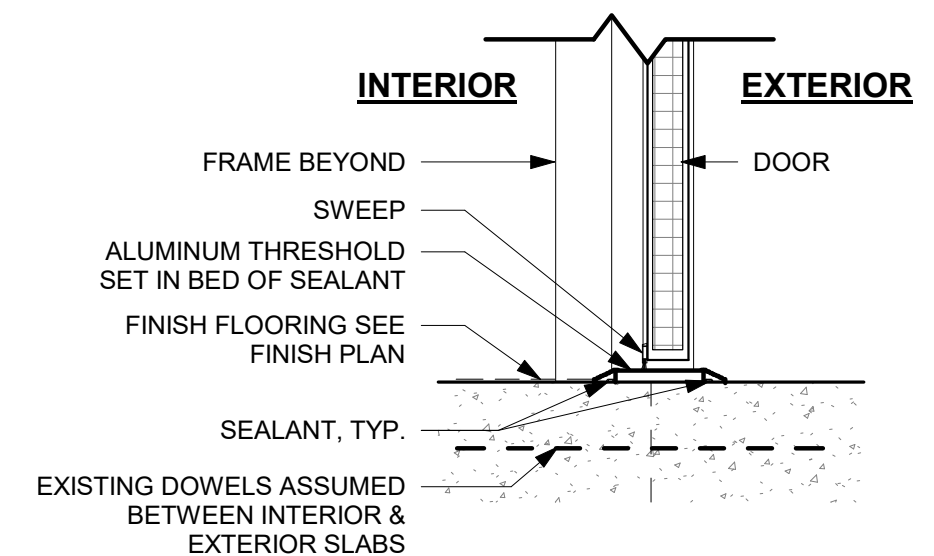


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**DOOR AND WINDOW SCHEDULES**

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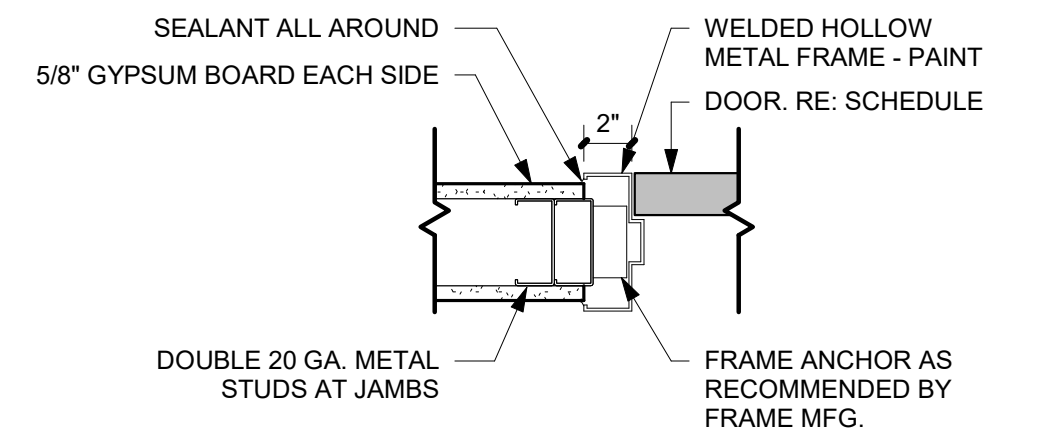
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**TYP. SILL DETAIL @ EXT. SWING DOORS**

2

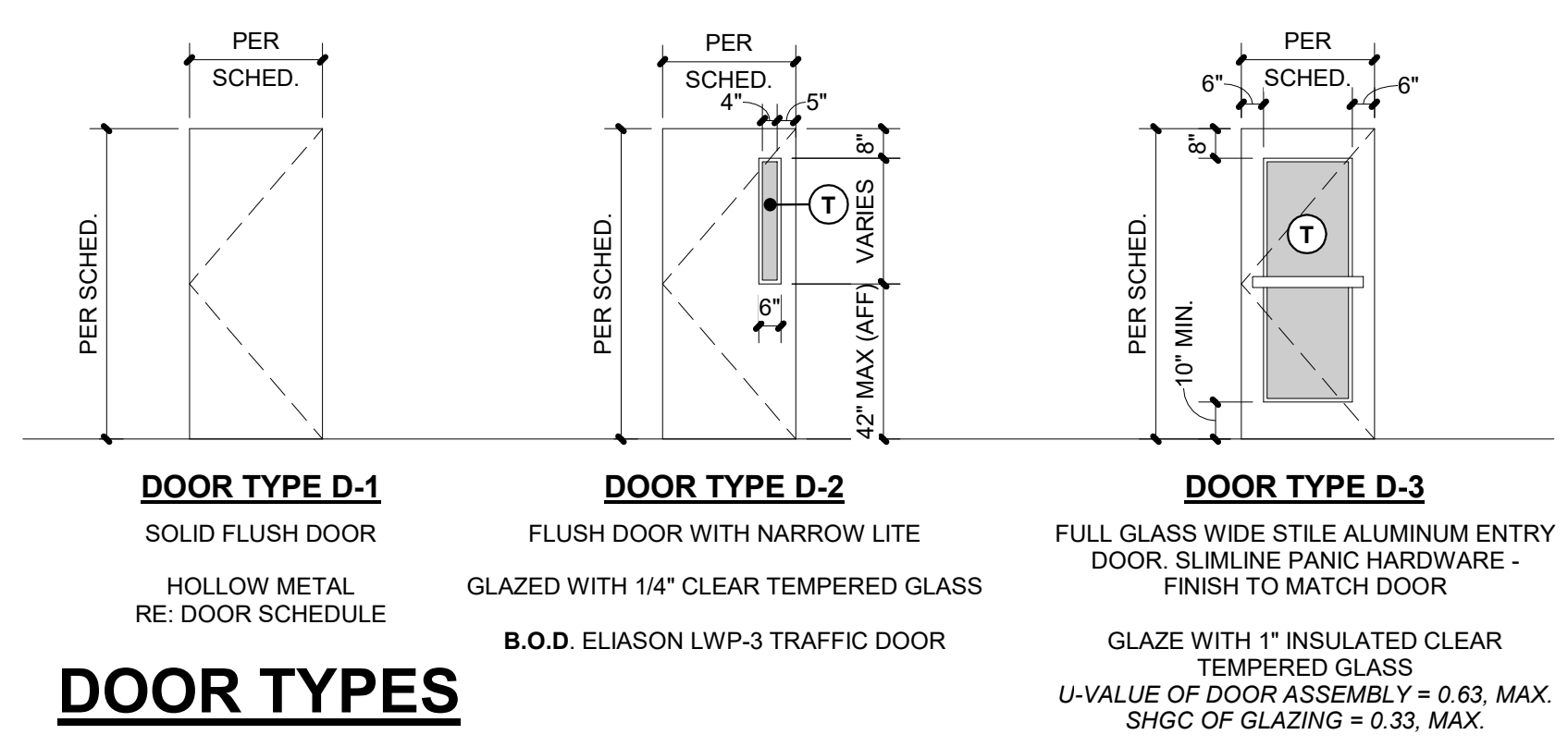
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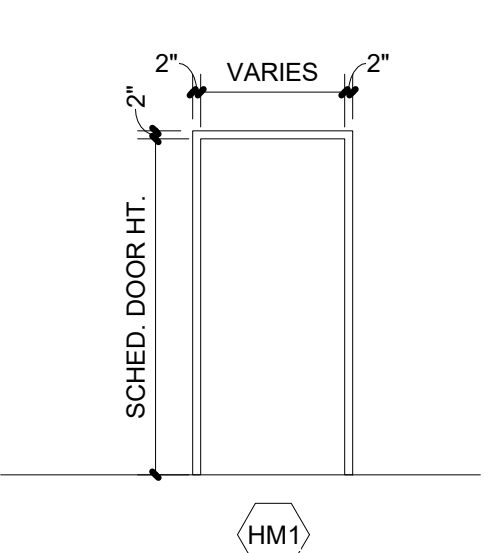
**HM WELDED FRAME IN MTL. STUD PARTITION - JAMB DETAIL (HEAD SIM.)**

1

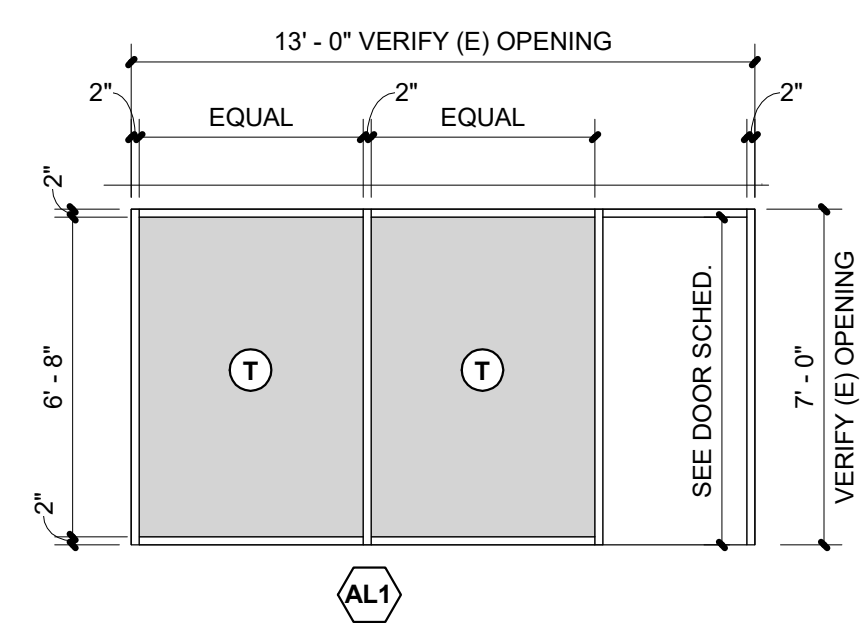
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**DOOR TYPES**



**FRAME TYPES**



NOTE: ALL EXTERIOR STOREFRONT GLAZING TO BE 1" INSULATED GLASS, TYP. EXTERIOR GLAZING IN 2"x4 1/4" ALUMINUM FRAME. FRAME FINISH TO MATCH EXISTING STOREFRONT FRAME, TYP.

**ALUMINUM FRAME TYPES**

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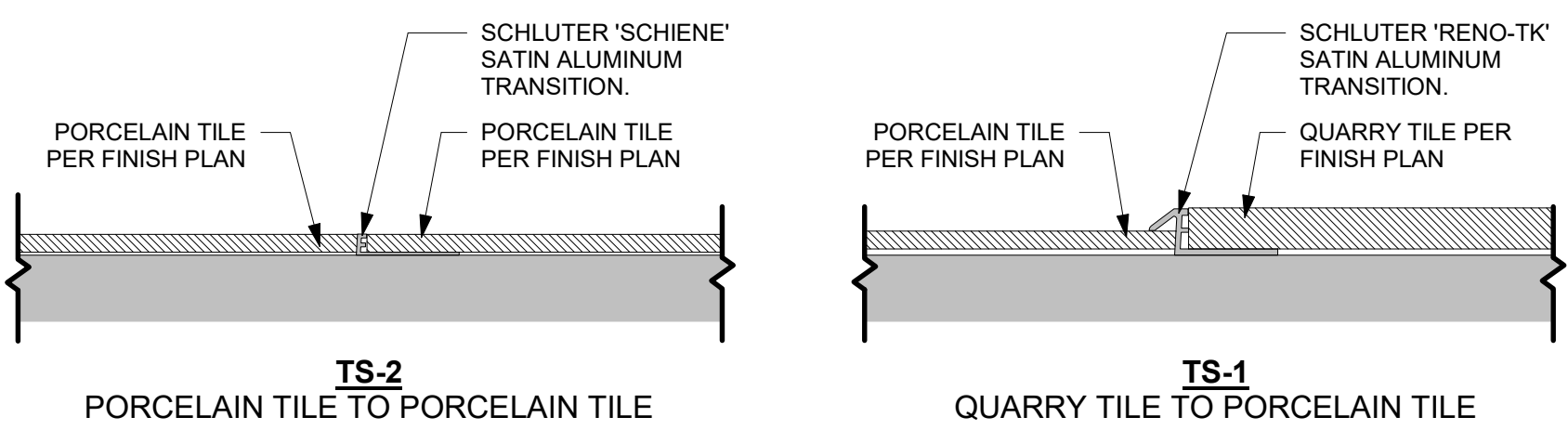
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INTERIOR FINISH SELECTIONS	
FLOORING SELECTIONS & ABBREVIATIONS	
FT-1	PORCELAIN TILE; SELECTION BY OWNER
FT-2	QUARRY TILE; SELECTION BY OWNER
BASE AND WALL SELECTIONS & ABBREVIATIONS	
WB-1	RUBBER WALL BASE; SELECTION BY OWNER
WB-2	QUARRY TILE COVE BASE; SELECTION BY OWNER
WT-1	PORCELAIN WALL TILE; SELECTION BY OWNER
VWC-1	VINYL WALL COVERING; SELECTION BY OWNER
PL-1	PLASTIC LAMINATE; SELECTION BY OWNER
EP	SCHLUTER; EDGE PROTECTION - JOLLY - SATIN ALUMINUM
CB	SCHLUTER; COVE BASE - DILEX - SATIN ALUMINUM
FRP	MARLITE; FIBER REINFORCED PANEL - STANDARD PEBBLE - P100 WHITE
PAINT AND STAIN SELECTIONS & ABBREVIATIONS	
PT-1	SHERWIN WILLIAMS; OVERALL PAINT - NOMADIC DESERT SW6107 - EGG SHELL FINISH. CONFIRM COLOR W/ OWNER
PT-2	SHERWIN WILLIAMS; EXPOSED CEILING PAINT - BLACK BEAN SW6006 - EGG SHELL FINISH. CONFIRM COLOR W/ OWNER
PT-3	SHERWIN WILLIAMS; ACCENT PAINT - COLOR TO BE SELECTED BY OWNER. MULTIPLE ACCENT COLORS MAY BE USED. COORDINATE WITH OWNER.
ST-1	MINWAX; WOOD TRIM STAIN - RED MAHOGONY - MW225 CONFIRM COLOR W/ OWNER
CASEWORK AND MISCELLANEOUS SELECTIONS & ABBREVIATIONS	
SS-1	SOLID SURFACE; SELECTION BY OWNER
PL-1	PLASTIC LAMINATE; SELECTION BY OWNER
CG-1	CORNER GUARD; SELECTION BY OWNER
TRANSITION STRIP SELECTIONS & ABBREVIATIONS	
TS	REFER TO DETAILS ON THIS SHEET FOR ALL TRANSITIONS
CEILING SELECTIONS	
REFER TO REFLECTED CEILING PLAN SHEET(S) & SYSTEM NOTES FOR NOTES ON FINISHES	

INTERIOR MATERIAL ABBREVIATIONS	
KEY	DESCRIPTION
ACT	ACOUSTIC CEILING TILE
CG	CORNER GUARD
CPT	CARPET
DS	DOOR STAIN
EM	ENTRY MAT
FRP	FIBER REINFORCED PANEL
LVT	LUXURY VINYL TILE
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PT	PAINT
PTD	PAINTED
RB	RUBBER BASE
SC	SEALED CONCRETE
SS	SOLID SURFACE
TP	TOILET PARTITIONS
TS	TRANSITION STRIP
VWC	VINYL WALL COVERING
WDB	WOOD WALL BASE

GENERAL FINISH NOTES	
FLOORING FINISH NOTES	
<ol style="list-style-type: none"> <li>FLOORING TRANSITIONS TO ALIGN WITH FINISH BASE EXCEPT AT DOORS. U.N.O. PROVIDE FLOORING TRANSITIONS AS REQUIRED THROUGHOUT INCLUDING METAL EDGE PROTECTIVE TRIM FOR ALL TILE TO OTHER FLOOR MATERIAL TRANSITION AS REQUIRED.</li> <li>SEE FINISH PLANS FOR LOCATIONS OF FLOORING TRANSITIONS AT OPENINGS.</li> <li>TILE TO BE INSTALLED PER CURRENT TCNA METHODS.</li> <li>TILE FLOORS (CERAMIC, LUXURY VINYL, CARPET TILE) TO BE CENTERED WITHIN SPACE, U.N.O.</li> <li>AVOID PARTIAL FLOOR TILES LESS THAN 3" WIDE OR HALF THE TILE SIZE, WHICHEVER IS SMALLER.</li> <li>ALL ADHESIVES TO BE USED WITH ADHERED FLOORING MATERIALS SHALL TOLERATE THE FOLLOWING MAXIMUM LEVELS OF WATER VAPOR AND PH: <ul style="list-style-type: none"> <li>a. WATER VAPOR PER MVER TEST: 5 LBS/24 HRS/1000 S.F.</li> <li>b. WATER VAPOR PER RELATIVE HUMIDITY TEST: 85% PH: 11</li> </ul> </li> </ol>	
WALL AND CEILING FINISH NOTES	
<ol style="list-style-type: none"> <li>WALLS TO BE PAINTED (PT-1) WITH A LEVEL 4 SMOOTH TEXTURE FINISH. EXISTING WALL TEXTURE TO REMAIN ON EXISTING WALLS. ALL GYPSUM WALL BOARD AND CEILINGS TO BE 5/8" THICK. CEILINGS TO RECEIVE SMOOTH LEVEL 4 FINISH. PAINT ALL GYP BOARD EXPOSED TO VIEW, U.N.O.</li> <li>ALL GYP BOARD WALLS EXPOSED TO VIEW TO BE PAINTED, U.N.O.</li> <li>WALLS AND CEILINGS IN KITCHENS TO BE PAINTED WITH SHERWIN WILLIAMS WATER-BASED LIGHT INDUSTRIAL COATING SYSTEM. REFER TO OUTLINE SPECIFICATIONS.</li> <li>GYPSUM CEILINGS, BULKHEADS AND SOFFITS TO BE PAINTED, U.N.O. REFER TO INTERIOR ELEVATIONS AND RCP FOR ACCENT COLORS ON SOFFITS AND BULKHEADS.</li> <li>GYPSUM WALLS AND CEILINGS RECEIVING DARK ACCENT PAINT, FLAT OR EQUIVALENT PAINT OR EPOXY PAINT TO HAVE LEVEL 5 SMOOTH FINISH PRIOR TO PAINT APPLICATION, U.N.O.</li> <li>EXPOSED STRUCTURE AND BAR JOISTS TO BE PAINTED WITH DRYFALL PAINT, U.N.O., REFER TO RCP &amp; SYSTEM NOTES.</li> <li>ALIGN WALL AND FLOOR TILE GROUT JOINTS, WHERE APPLICABLE. CONFIRM WITH INTERIOR ELEVATIONS AND FINISH PLAN.</li> <li>REFER TO THE REFLECTED CEILING PLAN(S) &amp; SYSTEM NOTES FOR CEILING FINISHES AND CEILING HEIGHTS.</li> <li>PAINT FINISHES ARE AS FOLLOWS, U.N.O.: <ul style="list-style-type: none"> <li>WALLS THROUGHOUT - EGG SHELL OR APPROVED EQUAL</li> <li>WALLS AT TOILETS, AND EQUIPMENT ROOMS - SEMI-GLOSS</li> <li>DOOR FRAMES AND HANDRAILS - SEMI-GLOSS</li> <li>CEILINGS IN RESTROOMS AND SHOWER ROOMS - EPOXY</li> <li>EXPOSED CEILING SCHEDULED TO BE PAINTED - FLAT</li> <li>DRYWALL CEILING SCHEDULED TO BE PAINTED - EGG SHELL</li> <li>WALLS AND DRYWALL CEILINGS AT KITCHENS - GLOSS</li> </ul> </li> </ol>	
DOOR, WINDOW AND ARCHITECTURAL METAL FINISH NOTES	
<ol style="list-style-type: none"> <li>INTERIOR DOOR FRAMES TO BE PAINTED, U.N.O.</li> <li>INTERIOR HOLLOW METAL WINDOW FRAMES TO BE PAINTED, U.N.O.</li> <li>METAL TRIM KITS &amp; DOOR LOUVERS AT INTERIOR DOORS TO BE PAINTED, U.N.O.</li> <li>STRINGERS, ANY EXPOSED METAL, BACKS OF STAIR RISERS, AND RAILINGS TO BE PAINTED, U.N.O.</li> </ol>	

CASEWORK NOTES	
<ol style="list-style-type: none"> <li>GC TO PROVIDE ALL WOOD BLOCKING IN STUD WALLS TO ALLOW FOR THE ANCHORING OF ALL WALL ATTACHED CABINETS AND WALL MOUNTED TVS. COORDINATE LOCATIONS WITH OWNER.</li> <li>FIELD VERIFY ALL CASEWORK AND SHELVING DIMENSIONS PRIOR TO FABRICATION. COORDINATE CASEWORK AND SHELVING DESIGNS WITH OWNER.</li> <li>ALL SHELVING, IN REFERENCE TO CASEWORK ONLY, SHOWN WITH DASHED LINES TO BE ADJUSTABLE.</li> <li>ALL PLASTIC LAMINATE COUNTERTOPS TO HAVE SQUARE CORNERS, U.N.O.</li> <li>LIP OF SINK SHALL BE 34" ABOVE FINISHED FLOOR MAXIMUM.</li> <li>ALL PLASTIC LAMINATE WORK SURFACES AND COUNTERS TO HAVE CHAMFERED EDGE, U.N.O. DOORS AND DRAWERS TO HAVE 3MM PVC EDGE BANDING, U.N.O. 1MM EDGE BANDING ON BASE AND UPPER CABINET BOXES AND SHELVES TO MATCH ADJACENT PLASTIC LAMINATE COLOR.</li> <li>PROVIDE A FINISHED PANEL AT EXPOSED CASEWORK ENDS AND BACKS AS NEEDED, TO MATCH ADJACENT CASEWORK PLASTIC LAMINATE. ALL FINISHED END PANELS TO BE SCRIBED TO THE FLOOR.</li> <li>ADD FILLER PANEL AS NEEDED AT CABINETS, DRAWERS, ETC. TO ENDURE FULL DOOR SWING AND DRAWER OPERATION. PROVIDE A MINIMUM OF 1 1/2" FILLERS WHEN ADJACENT TO WALLS. MATCH ADJACENT PLASTIC LAMINATE COLOR.</li> <li>REMOVE GROMMETS; TO BE LOCATED IN THE FIELD WITH THE OWNER AND G.C. AT ALL WORK SURFACE LOCATIONS. GROMMET COLOR TO BE AS CLOSE AS POSSIBLE TO COUNTERTOP MATERIAL. INTERIOR DESIGNER TO APPROVE FINAL COLOR PRIOR TO INSTALLATION.</li> <li>PROVIDE 2 1/2" MELAMINE WITH EDGE BANDING CLEAT AT ALL COUNTERTOPS NOT SUPPORTED BY BASE CABINETS. MELAMINE CLEAT TO MATCH ADJACENT WALL.</li> <li>ALL UPPER CASEWORK WITH DOORS TO HAVE SCREWS WITH A BEAUTY RING OR FINISH WASHER. ALL EXPOSED UPPER CASEWORK TO HAVE RECESSED SCREW HEADS AND CAP OR COVER TO MATCH THE PLASTIC LAMINATE.</li> <li>PROVIDE CAULKING AS INDICATED BELOW: <ul style="list-style-type: none"> <li>a. TRANSLUCENT SILICONE ADHESIVE WHERE BACKSPLASH AND COUNTER MEET AND AT COUNTER JOINTS.</li> <li>b. AT WALL / CASEWORK TRANSITION, PROVIDE WHITE, PAINTABLE CAULKING.</li> </ul> </li> <li>CONCEALED BLACK METAL BRACE SUPPORT TO OCCUR PER MANUFACTURER'S RECOMMENDATIONS, U.N.O.</li> <li>WOOD GRAIN TO RUN VERTICALLY ON CABINETS IN ACCORDANCE WITH CUSTOM GRADE AWS, 2009 EDITION 1, U.N.O.</li> <li>APPLY PLASTIC LAMINATE TO ALL EXPOSED SURFACES - NO EXPOSED PARTICLE BOARD WILL BE ACCEPTED. REFERENCE FINISH MATERIAL LEGEND FOR LAMINATE COLORS. PROVIDE SAMPLES FOR OWNER/DESIGNER APPROVAL.</li> <li>CASEWORK TO BE MANUFACTURED AND STORED IN COMPLIANCE WITH THE LATEST EDITION OF THE ARCHITECTURAL WOODWORK INSTITUTE QUALITY STANDARD. ALL CABINETS SHALL BE OF STANDARD FULL OVERLAY CONSTRUCTION, CUSTOM GRADE. PROVIDE PLASTIC LAMINATE CABINETS AS SHOWN ON INTERIOR ELEVATIONS.</li> </ol>	
MISCELLANEOUS FINISH NOTES	
<ol style="list-style-type: none"> <li>GROUT JOINT WIDTHS TO BE PER MANUFACTURER'S RECOMMENDATION, U.N.O.</li> <li>EXPOSED METAL DUCTS TO BE PAINTED TO MATCH CEILING, INCLUDING GRILLES IN DUCT, U.N.O. CONFIRM WITH OWNER.</li> <li>ELECTRICAL SWITCH PLATES AND OUTLET COVERS IN PUBLIC AREAS TO BE WHITE WITH WHITE DEVICES, U.N.O. CONFIRM WITH OWNER.</li> <li>ELECTRICAL SWITCH PLATES AND OUTLET COVERS IN NON-PUBLIC AREAS TO BE WHITE WITH WHITE DEVICES, U.N.O. CONFIRM WITH OWNER.</li> <li>MECHANICAL (INCLUDING THERMOSTATS), AND FIRE DEVICES (INCLUDING HORNS AND STROBES) TO BE WHITE, U.N.O.</li> <li>ELECTRICAL PANELS, METAL ACCESS PANELS, LOUVERS, DIFFUSERS, AND NON-PREFINISHED FIRE EXTINGUISHER CABINETS SHALL BE PAINTED TO MATCH ADJACENT WALL.</li> </ol>	
FINISH KEY	
 CPT-1 FLOORING RB-1 BASE	 P-1 MATERIAL FINISHES



**FLOOR TRANSITION DETAILS**  
NOTE: TRANSITION TYPES SHOWN ARE BASIS OF DESIGN FOR TYPICAL THICKNESSES OF MATERIAL TYPES. VERIFY TRANSITION TYPES WITH FINAL FINISH SELECTIONS. CONFIRM TRANSITION FINISH WITH OWNER.

STANDARD TCNA DETAILS	
INTERIOR FLOORS	
<b>DRY-SET MORTAR or LATEX-PORTLAND CEMENT MORTAR</b>	F113-05
<b>RECOMMENDED USES:</b> <ul style="list-style-type: none"> <li>ON PLANE, CLEAN CONCRETE</li> <li>ON SLAB-ON-GRADE CONSTRUCTION WHERE NO BENDING STRESSES OCCUR</li> <li>SEE PAGE 17 NOTE FOR EXTERIOR USES</li> <li>SEE CAUTION AT BOTTOM OF PAGE</li> </ul>	<b>RECOMMENDED USES:</b> <ul style="list-style-type: none"> <li>OVER STRUCTURALLY SOUND WOOD FLOORS SUBJECT TO RESIDENTIAL TRAFFIC WITH 19.2" ON CENTER FLOOR JOIST SPACING</li> <li>INTERIOR DRY OR WET AREAS</li> </ul>
<b>LIMITATIONS:</b> <ul style="list-style-type: none"> <li>METHOD F113 IS THE PREFERRED METHOD OVER PRECAST CONCRETE FLOOR SYSTEMS, POST-TENSIONED CONCRETE FLOOR SYSTEMS, AND OTHER FLOORS SUBJECT TO MOVEMENT OR DEFLECTION</li> <li>METHOD F113 MAY BE SUITABLE FOR ABOVE-GRADE STRUCTURAL SLAB INSTALLATIONS WHEN SPECIFIC MORTAR AND GROUT PRODUCTS RECOMMENDED BY THE MANUFACTURER ARE SPECIFIED. NOT ALL MODIFIED MORTAR AND GROUT PRODUCTS ARE SUITABLE FOR THIS APPLICATION</li> <li>DEFLECTION NOT TO EXCEED 1/360 OF SPAN FOR ABOVE-GRADE STRUCTURAL SLABS</li> </ul>	<b>LIMITATIONS:</b> <ul style="list-style-type: none"> <li>REQUIRES SPECIALTY UNCOUPLING SYSTEM</li> <li>4"x4" AND LARGER TILE ONLY</li> </ul>
<b>REQUIREMENTS:</b> <ul style="list-style-type: none"> <li>SLAB TO BE WELL CURED, DIMENSIONALLY STABLE, AND FREE OF CRACKS, WAXY OR OILY FILMS, AND CURING COMPOUNDS</li> <li>BOND COAT 3/32" MIN.</li> </ul>	<b>REQUIREMENTS:</b> <ul style="list-style-type: none"> <li>MAXIMUM SPACING OF FLOOR TRUSSES OR I-JOISTS IS 19.2" ON CENTER</li> <li>DESIGN FLOOR AREAS OVER WHICH TILE IS TO BE APPLIED TO HAVE A DEFLECTION NOT GREATER THAN 1/360 OF THE SPAN WHEN MEASURED UNDER 300 POUND CONCENTRATED LOAD (SEE ASTM C627)</li> </ul>
<b>MATERIALS:</b> <ul style="list-style-type: none"> <li>MORTAR - USE ANSI A118.1 or A118.4 FOR SLAB-ON-GRADE INSTALLATIONS. USE ONLY A MANUFACTURER'S DESIGNATED MORTAR FOR ABOVE-GRADE STRUCTURAL SLABS</li> <li>GROUT - USE ANSI 118.3, A118.5, A118.7, or A118.8 FOR SLAB-ON-GRADE INSTALLATIONS. USE ONLY A MANUFACTURER'S DESIGNATED GROUT FOR ABOVE-GRADE STRUCTURAL SLABS</li> </ul>	<b>MATERIALS:</b> <ul style="list-style-type: none"> <li>LATEX-PORTLAND CEMENT MORTAR - ANSI A118.4</li> <li>MORTAR - USE ANSI A118.1 or A118.4 FOR SLAB-ON-GRADE INSTALLATIONS. USE ONLY A MANUFACTURER'S DESIGNATED MORTAR FOR ABOVE-GRADE STRUCTURAL SLABS</li> <li>DRY-SET MORTAR - ANSI A118.1</li> <li>POLYMER MODIFIED TILE GROUT - ANSI 118.7</li> </ul>
<b>PREPARATION BY OTHER TRADES:</b> <ul style="list-style-type: none"> <li>SLAB - STEEL TROWEL AND FINE BROOM FINISH FREE OF CURING COMPOUNDS (WHEN USED, MECHANICALLY SCARIFYING IS NECESSARY)</li> <li>SLOPE, WHEN REQUIRED, TO BE IN SUBFLOOR</li> <li>MAX. VARIATION IN THE SLAB - 1/4" IN 10'-0" FROM THE REQUIRED PLANE</li> </ul>	<b>PREPARATION BY OTHER TRADES:</b> <ul style="list-style-type: none"> <li>SUBFLOOR - 2x3x2" TONGUE &amp; GROOVE EXTERIOR-GLUE PLYWOOD WITH 1/8" GAP BETWEEN SHEETS</li> <li>MAXIMUM VARIATION IN PLYWOOD SURFACE SHALL NOT EXCEED 1/4" IN 10'-0" FROM THE REQUIRED PLANE.</li> </ul>
<b>MOVEMENT JOINT (ARCHITECT MUST SPECIFY TYPE OF JOINT AND SHOW LOCATION AND DETAILS ON DRAWINGS):</b> <ul style="list-style-type: none"> <li>SLOPE, WHEN REQUIRED, TO BE IN SUBFLOOR</li> <li>MAX. VARIATION IN THE SLAB - 1/4" IN 10'-0" FROM THE REQUIRED PLANE</li> </ul>	<b>MOVEMENT JOINT (ARCHITECT MUST SPECIFY TYPE OF JOINT AND SHOW LOCATION AND DETAILS ON DRAWINGS):</b> <ul style="list-style-type: none"> <li>MOVEMENT JOINTS - MANDATORY IN ACCORDANCE WITH METHOD EJ171, PAGE 44</li> </ul>
<b>INSTALLATION SPECIFICATIONS:</b> <ul style="list-style-type: none"> <li>TILE - ANSI A108.5</li> <li>GROUT - ANSI A108.10</li> </ul>	<b>INSTALLATION SPECIFICATIONS:</b> <ul style="list-style-type: none"> <li>TILE - ANSI A108.5</li> <li>GROUT - ANSI A108.10</li> </ul>
WOOD or METAL STUDS	
<b>GYPSUM BOARD THIN-SET</b>	W243-05
<b>RECOMMENDED USES:</b> <ul style="list-style-type: none"> <li>DRY INTERIORS OVER GYPSUM BOARD</li> <li>FOR DRY AREAS ONLY</li> <li>OVER DRY, WELL-BRACED WOOD STUDS OR FURRING</li> <li>OVER WELL-BRACED METAL STUDS</li> </ul>	
<b>LIMITATIONS:</b> <ul style="list-style-type: none"> <li>IN WET AREAS SUCH AS TUB ENCLOSURES, USE METHOD B413</li> <li>DO NOT USE IN AREAS WHERE GYPSUM BOARD IS EXPOSED TO TEMPERATURES ABOVE 125 DEGREES F.</li> </ul>	
<b>REQUIREMENTS:</b> <ul style="list-style-type: none"> <li>MAX. STUD SPACING - 16" ON CENTER</li> <li>MIN. RECOMMENDED METAL STUD DEPTH - 3-5/8"</li> <li>METAL STUDS - 20 GAUGE (0.039") OR HEAVIER</li> </ul>	
<b>MATERIALS:</b> <ul style="list-style-type: none"> <li>GYPSUM BOARD - ASTM C36 or C630</li> <li>DRY-SET MORTAR - ANSI A118.1</li> <li>LATEX-PORTLAND CEMENT MORTAR - ANSI A118.4</li> <li>GROUT - ANSI A118.6 or A118.7</li> </ul>	
<b>PREPARATION BY OTHER TRADES:</b> <ul style="list-style-type: none"> <li>MAX. VARIATION IN THE GYPSUM BOARD SURFACE - 1/4" IN 10'-0" FROM THE REQUIRED PLANE</li> <li>GYPSUM BOARD JOINTS - TREATED WITH TAPE AND JOINT COMPOUND, BEDDING COAT ONLY (NO FINISH COATS), NAIL HEADS, ONE COAT ONLY</li> </ul>	
<b>INSTALLATION SPECIFICATIONS:</b> <ul style="list-style-type: none"> <li>GYPSUM BOARD - GA-216</li> <li>TILE - ANSI A108.5</li> <li>GROUT - ANSI A108.10</li> </ul>	

PROJECT NUMBER: 2024-53

**BONCHON & BROWN DONKATSU**

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524

**VFLA**  
ARCHITECTURE + INTERIORS

419 CANYON AVE STE 200, FORT COLLINS, CO 80521  
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
STRENGTH IN COMMUNITY

**PROJECT TEAM**

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:  
INTEGRATED MEP, LLC.

PLUMBING ENGINEER:  
INTEGRATED MEP, LLC.

ELECTRICAL ENGINEER:  
APS, INC.

DESIGN DEVELOPMENT

SHEET ISSUANCES	DATE
DESIGN DEVELOPMENT	09-20-2024
CONSTRUCTION DOCUMENTS	10-11-2024

SEAL:

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**MATERIAL FINISH LEGEND & NOTES**

DRAWING NUMBER:

**A8.0**

# BONCHON & BROWN DONKATSU

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524



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STRENGTH IN DESIGN  
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### PROJECT TEAM

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LARSEN STRUCTURAL DESIGN

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INTEGRATED MEP, LLC.

PLUMBING ENGINEER:  
INTEGRATED MEP, LLC.

ELECTRICAL ENGINEER:  
APS, INC.

### DESIGN DEVELOPMENT

DESCRIPTION	DATE
DESIGN DEVELOPMENT	09-20-2024
CONSTRUCTION DOCUMENTS	10-11-2024

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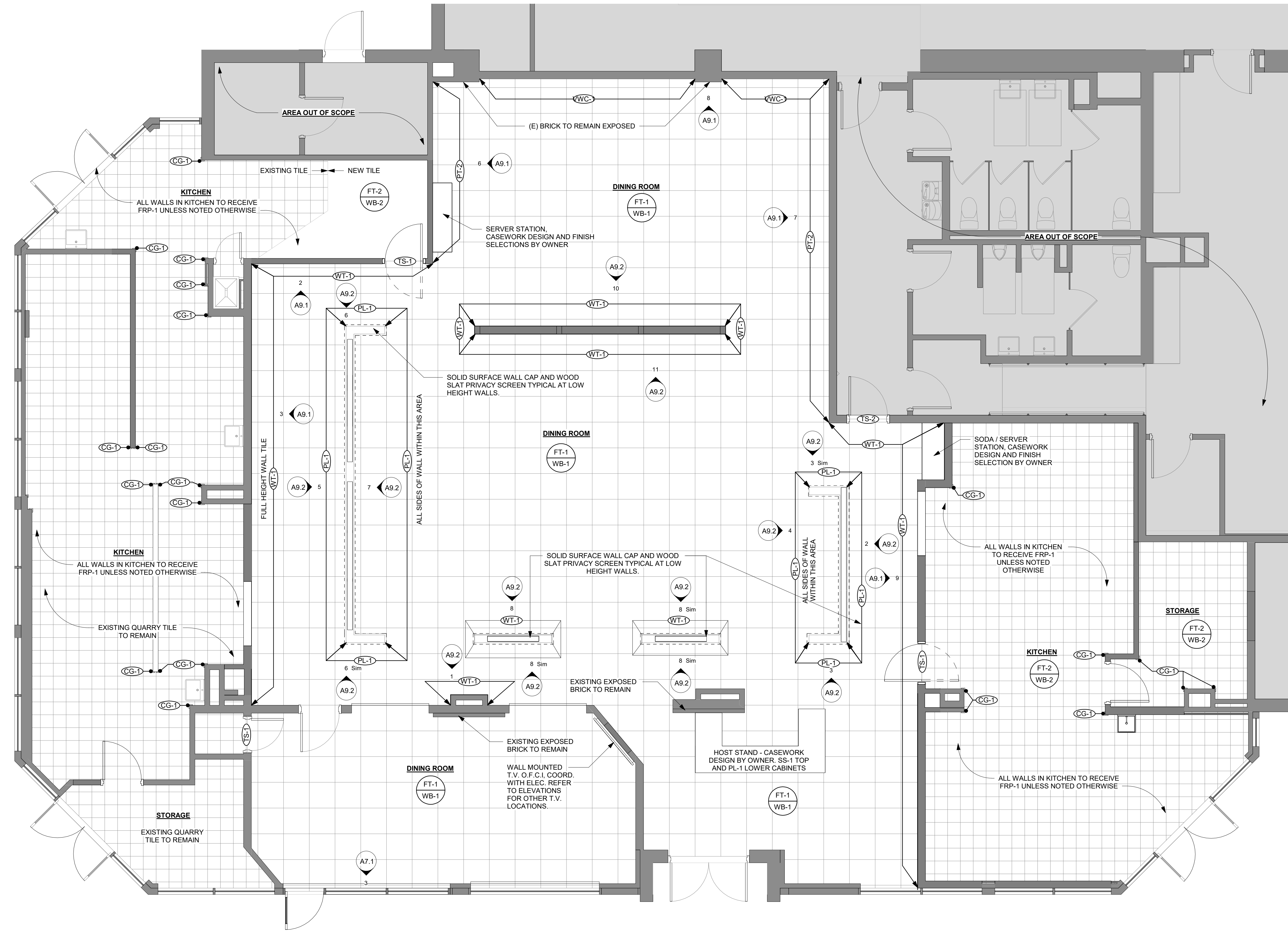


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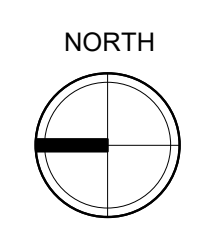
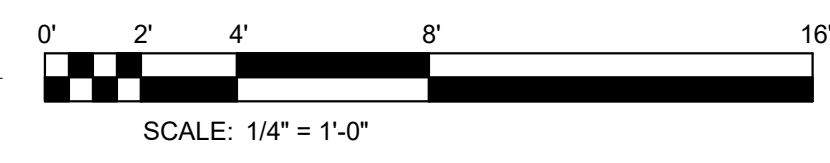
### FINISH PLAN

DRAWING NUMBER:

# A8.1



**1 FINISH PLAN**  
SCALE: 1/4" = 1'-0"



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# BONCHON & BROWN DONKATSU

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524



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### DESIGN DEVELOPMENT

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DESIGN DEVELOPMENT	09-20-2024
CONSTRUCTION DOCUMENTS	10-11-2024

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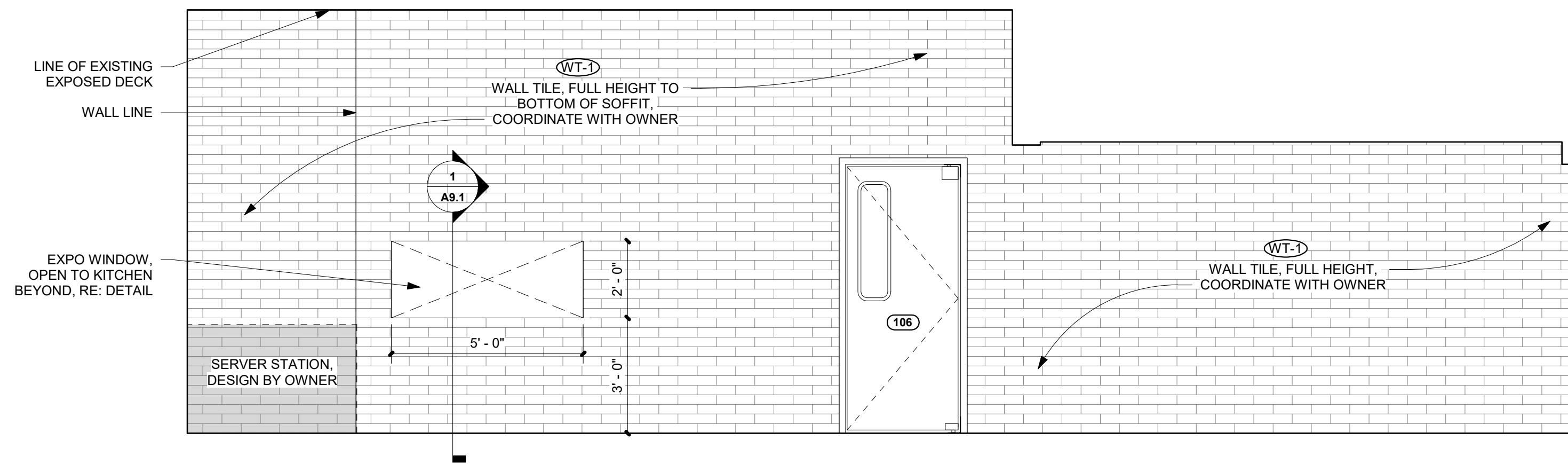


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## INTERIOR ELEVATIONS & DETAILS

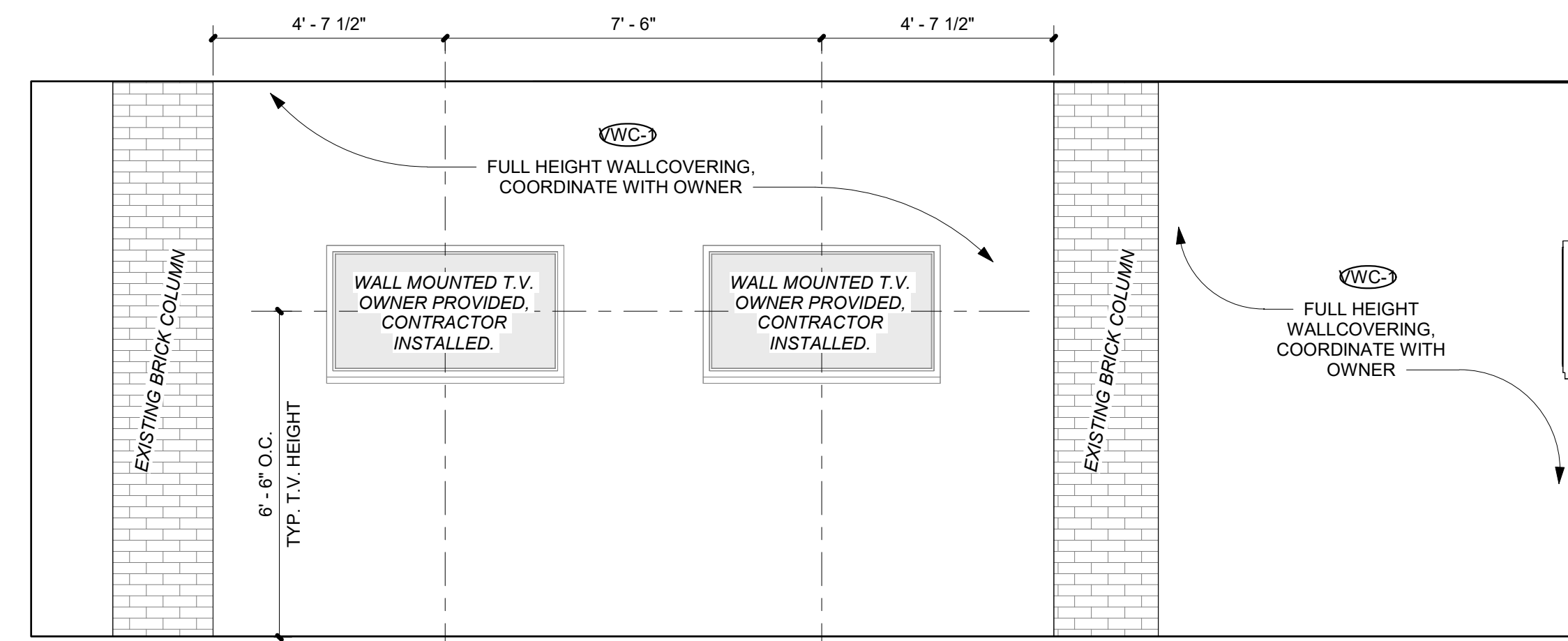
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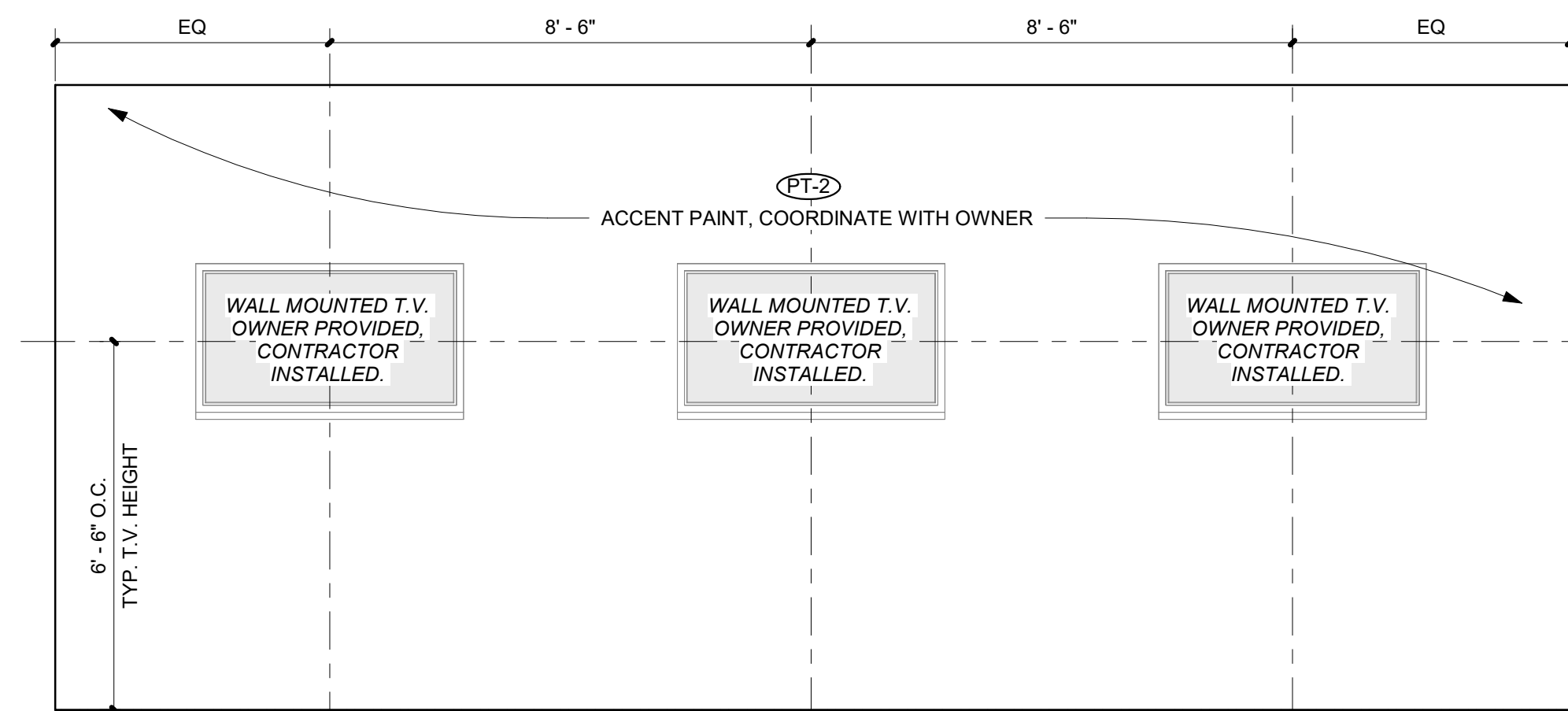
### 9 SOUTH SERVER AREA - SOUTH ELEVATION

SCALE: 3/8" = 1'-0"



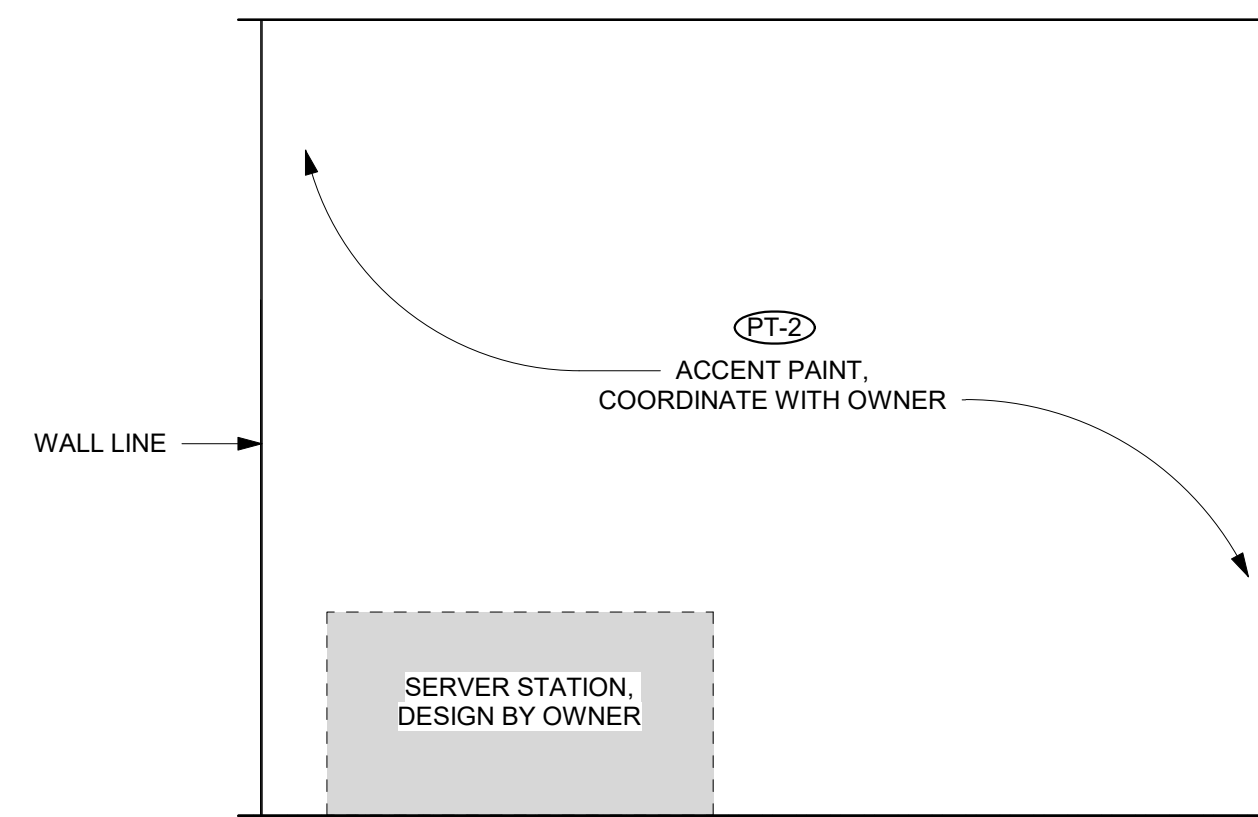
### 8 EAST DINING ROOM - EAST ELEVATION

SCALE: 3/8" = 1'-0"



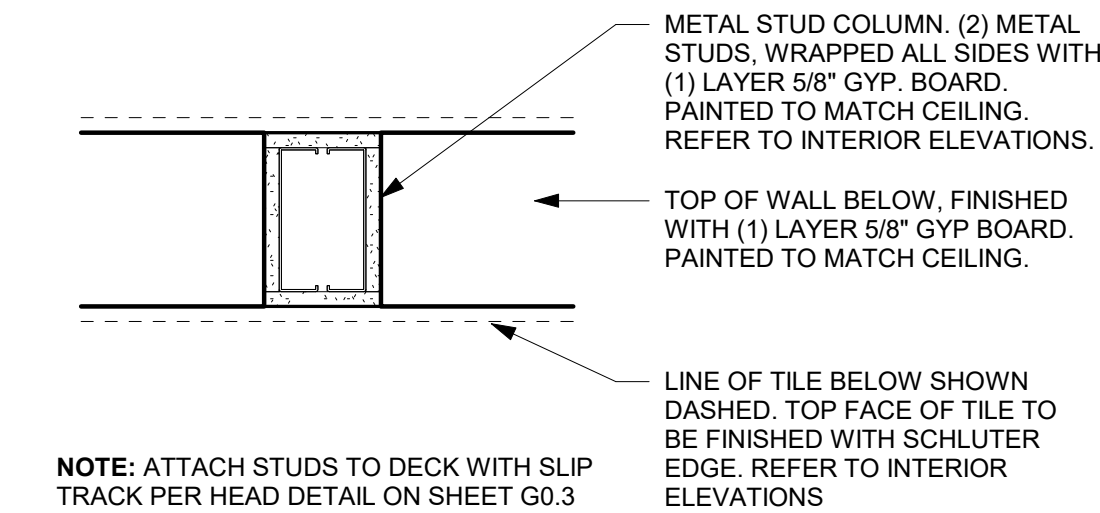
### 7 EAST DINING ROOM - SOUTH ELEVATION

SCALE: 3/8" = 1'-0"



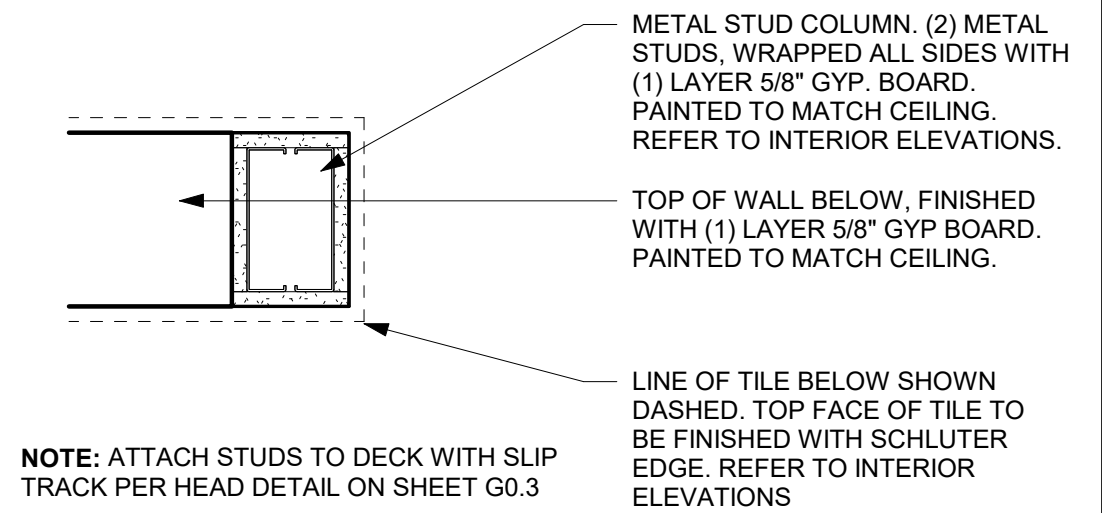
### 6 EAST DINING ROOM - NORTH ELEVATION

SCALE: 3/8" = 1'-0"



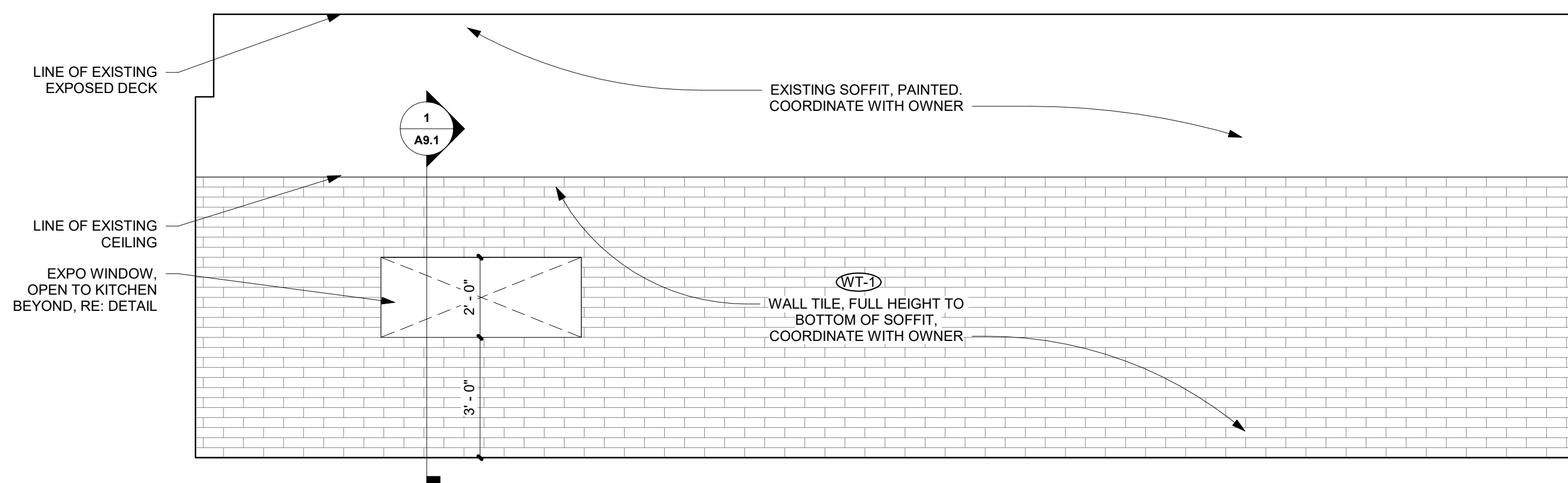
### 5 WRAPPED STUD COLUMN DETAIL

SCALE: 1 1/2" = 1'-0"



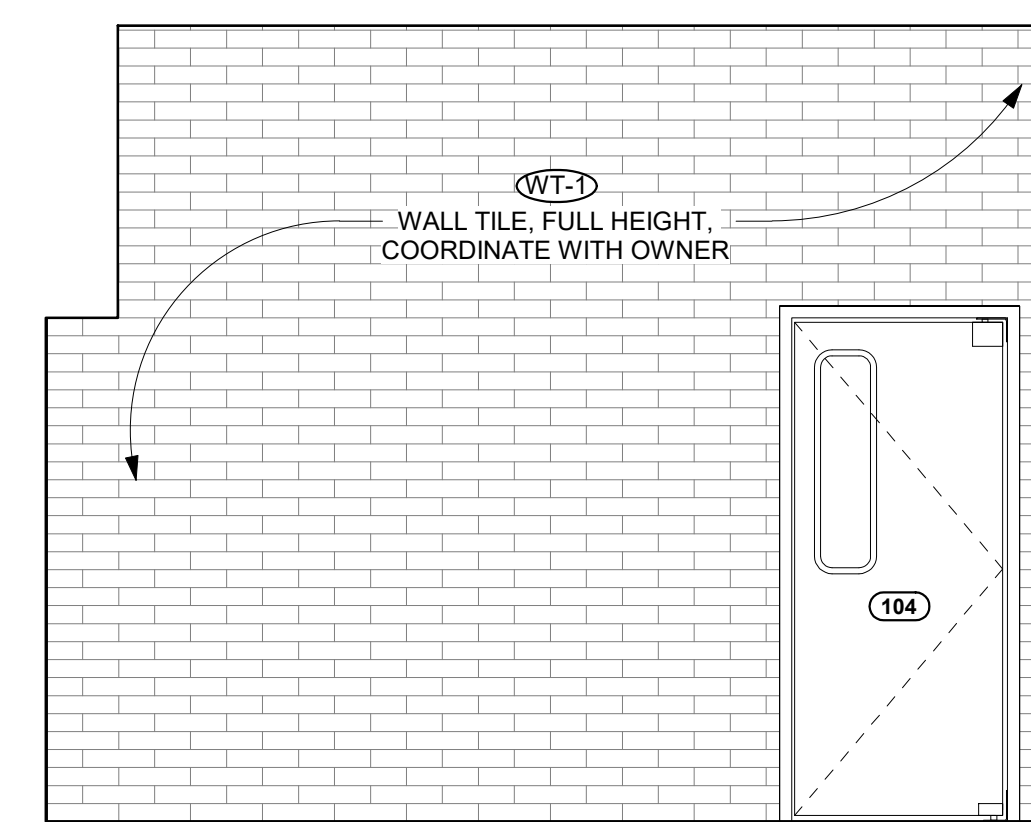
### 4 WRAPPED STUD COLUMN DETAIL @ ENDS OF WALL

SCALE: 1 1/2" = 1'-0"



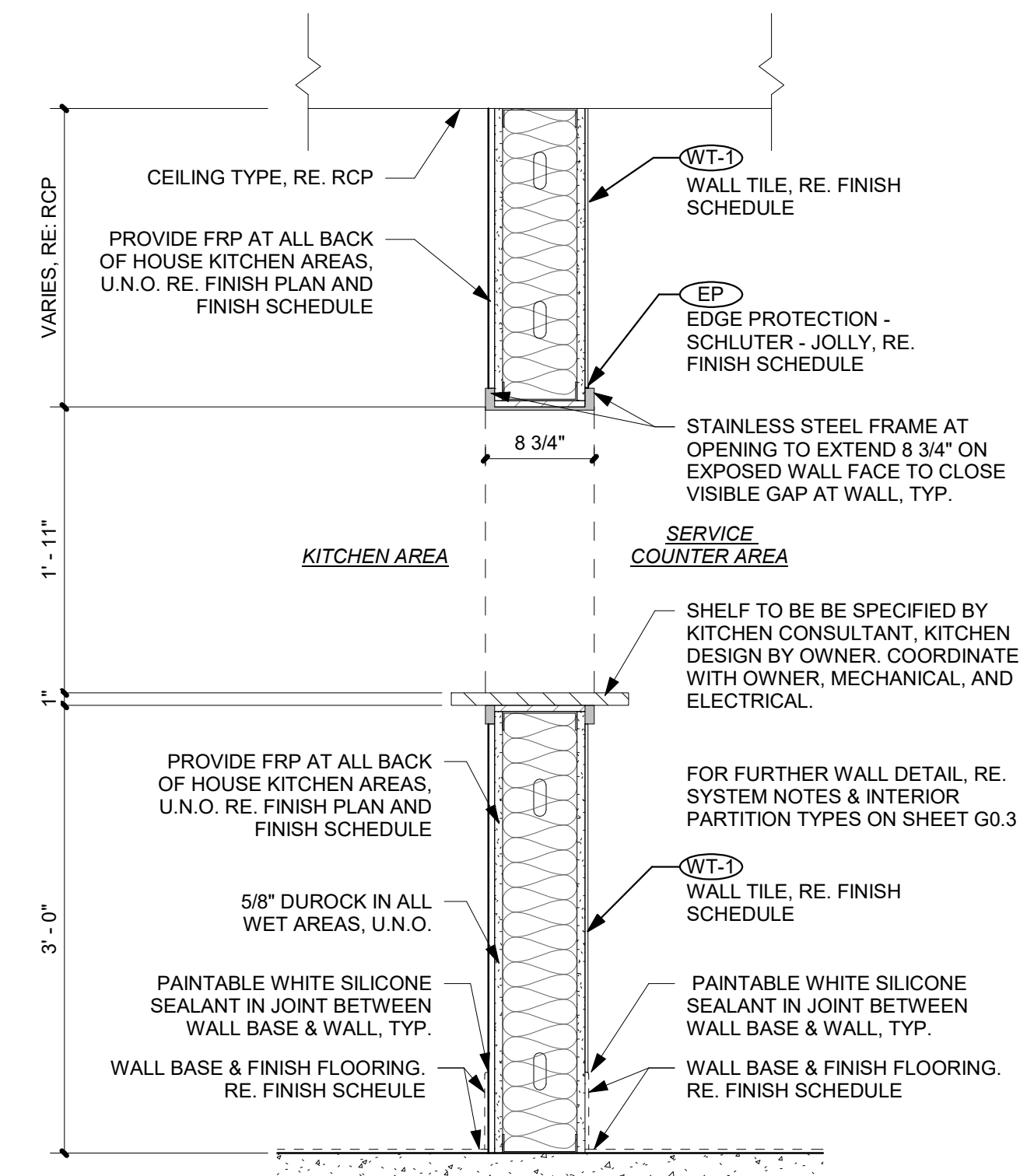
### 3 NORTH SERVER AREA - NORTH ELEVATION

SCALE: 3/8" = 1'-0"



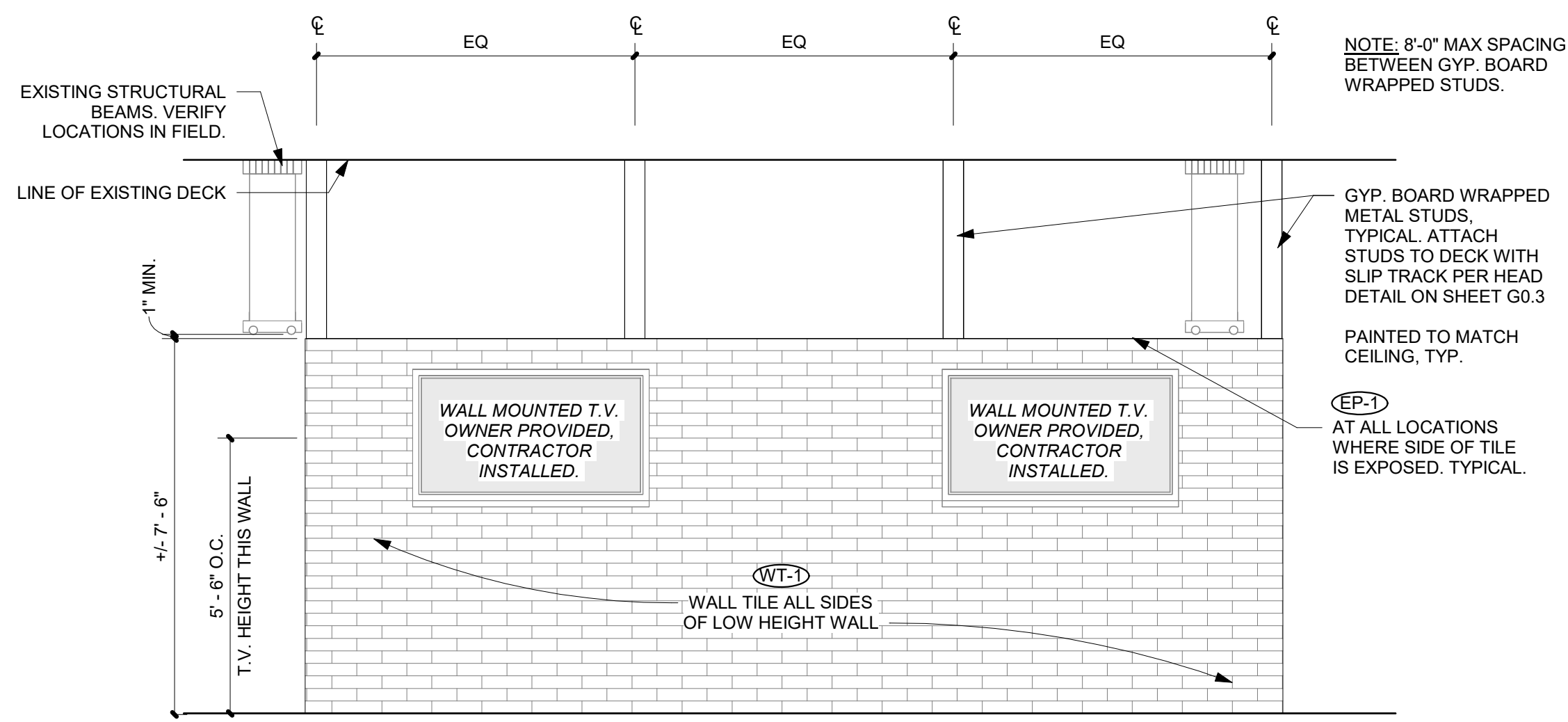
### 2 NORTH SERVER AREA - EAST ELEVATION

SCALE: 3/8" = 1'-0"



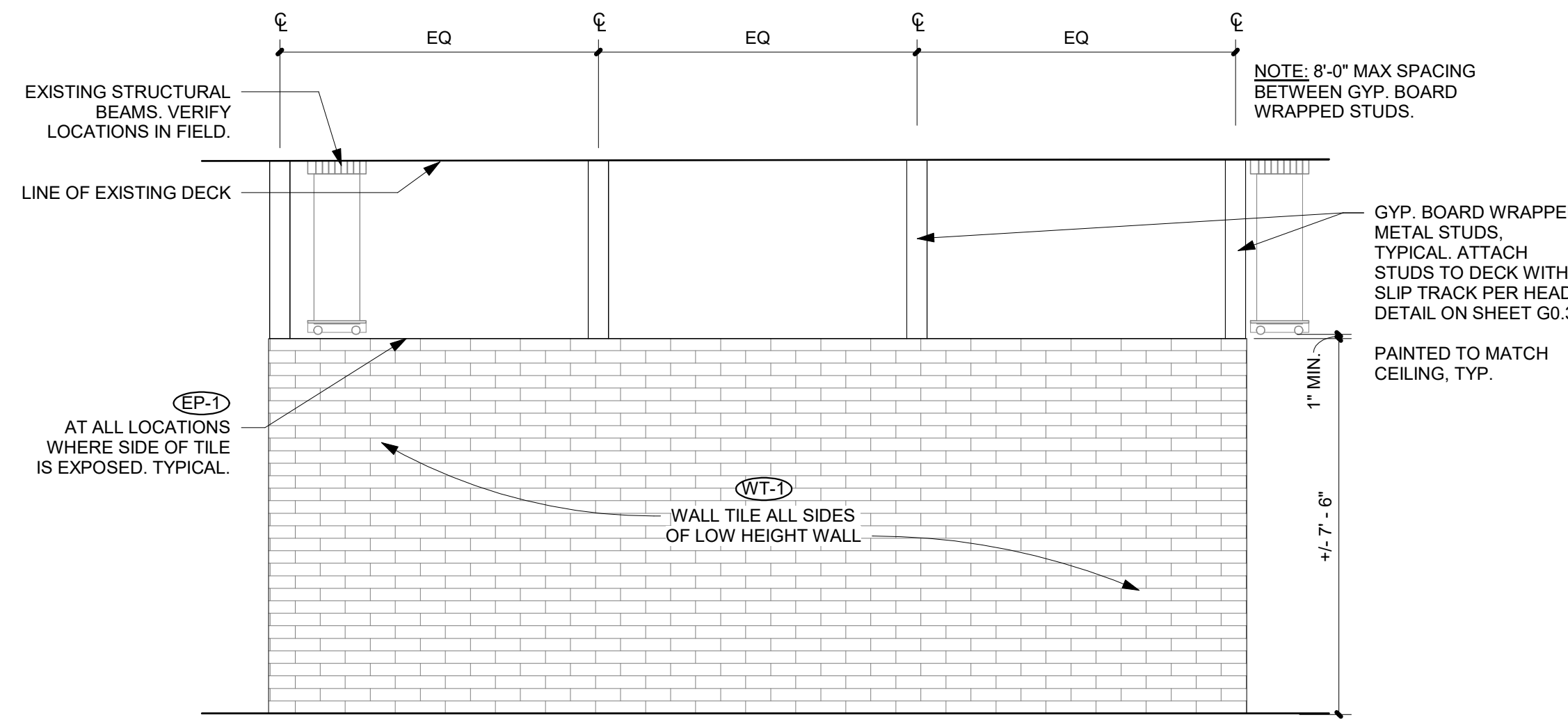
### 1 EXPO PASSTHROUGH DETAIL

SCALE: 1" = 1'-0"



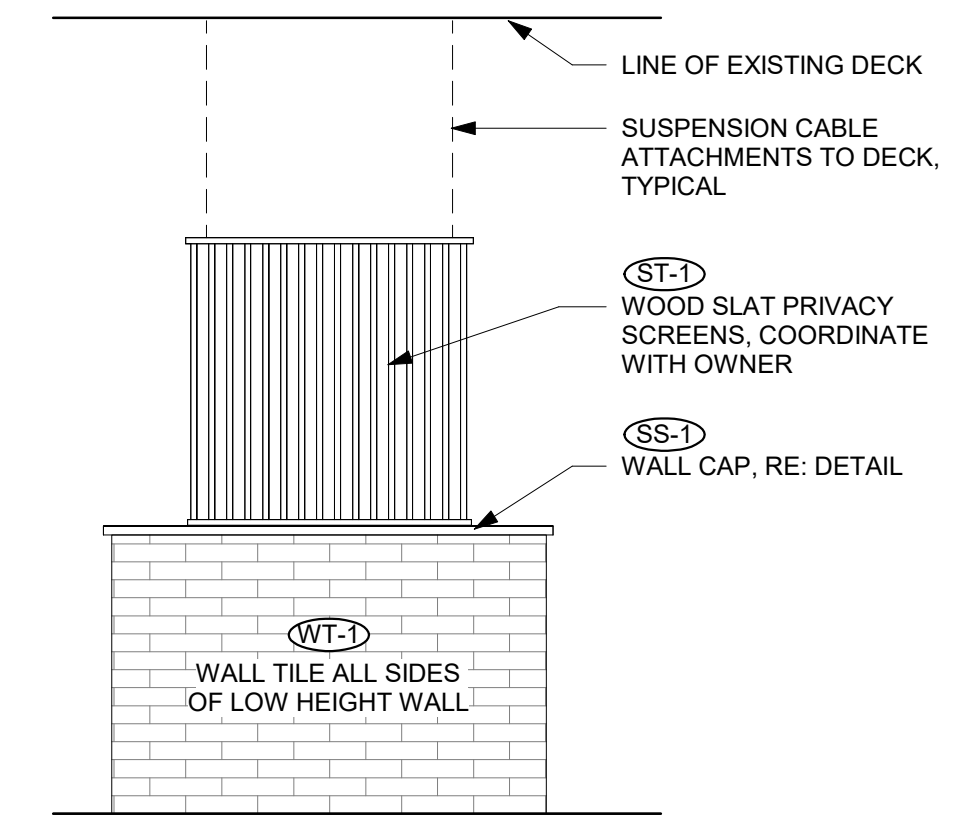
**11** DINING ROOM - PLAN NORTH DIVIDING WALL - EAST ELEVATION

SCALE: 3/8" = 1'-0"



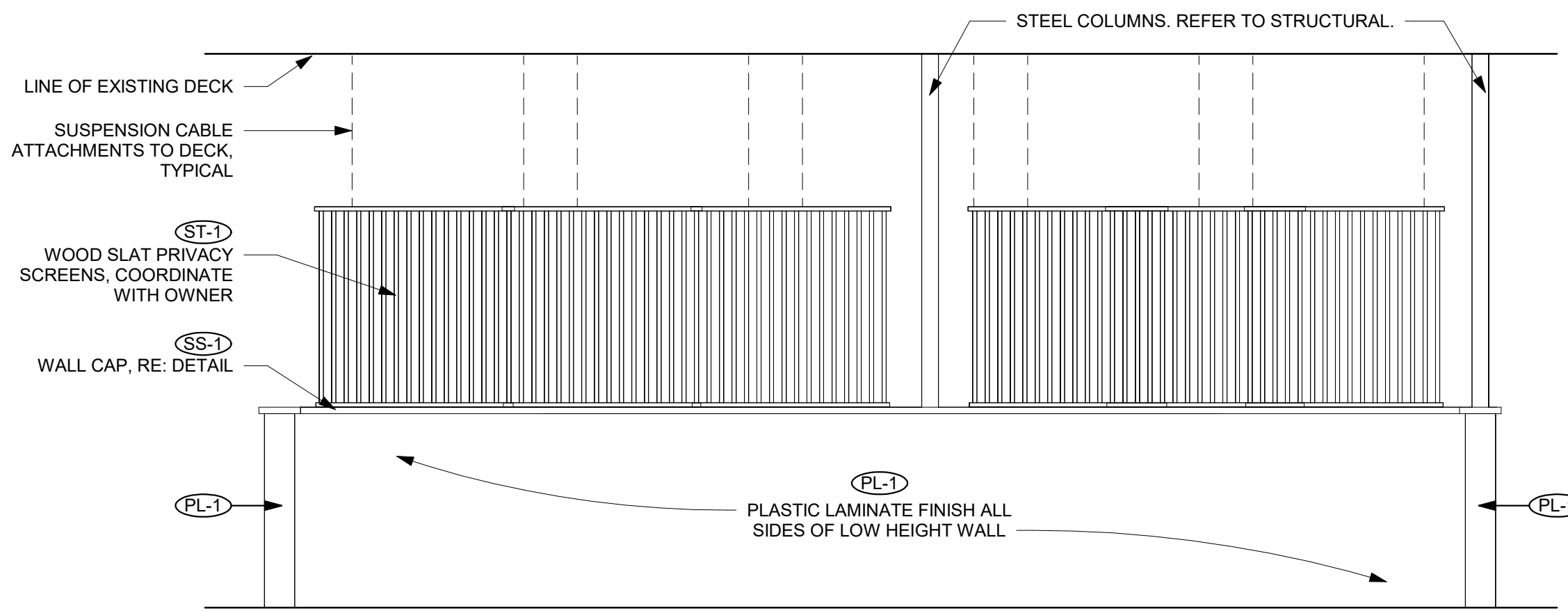
**10** DINING ROOM - PLAN NORTH DIVIDING WALL - WEST ELEVATION

SCALE: 3/8" = 1'-0"



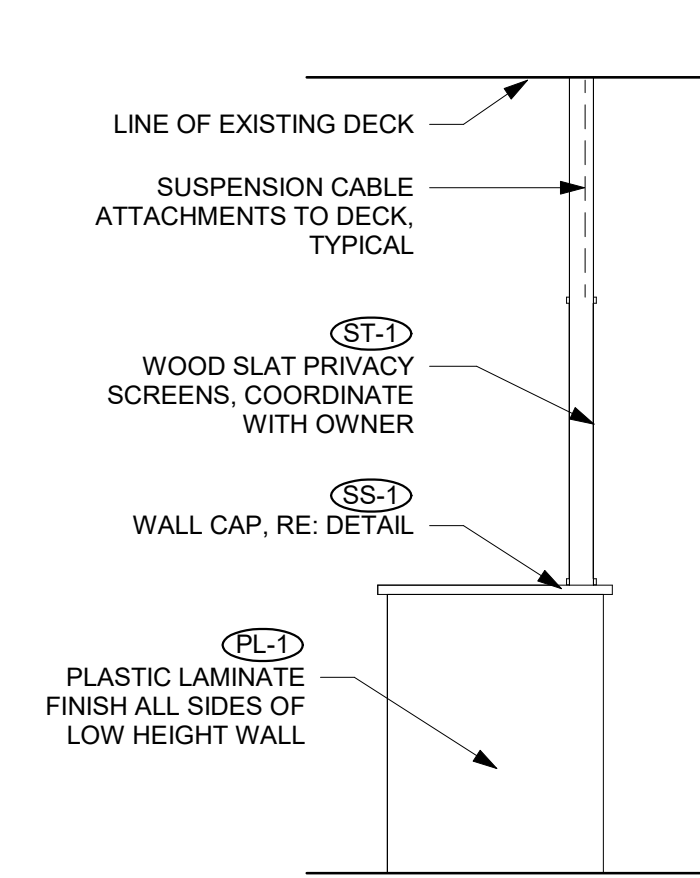
**8** DINING ROOM - PLAN SOUTH DIVIDING WALL - WEST ELEVATION (EAST SIMILAR)

SCALE: 3/8" = 1'-0"



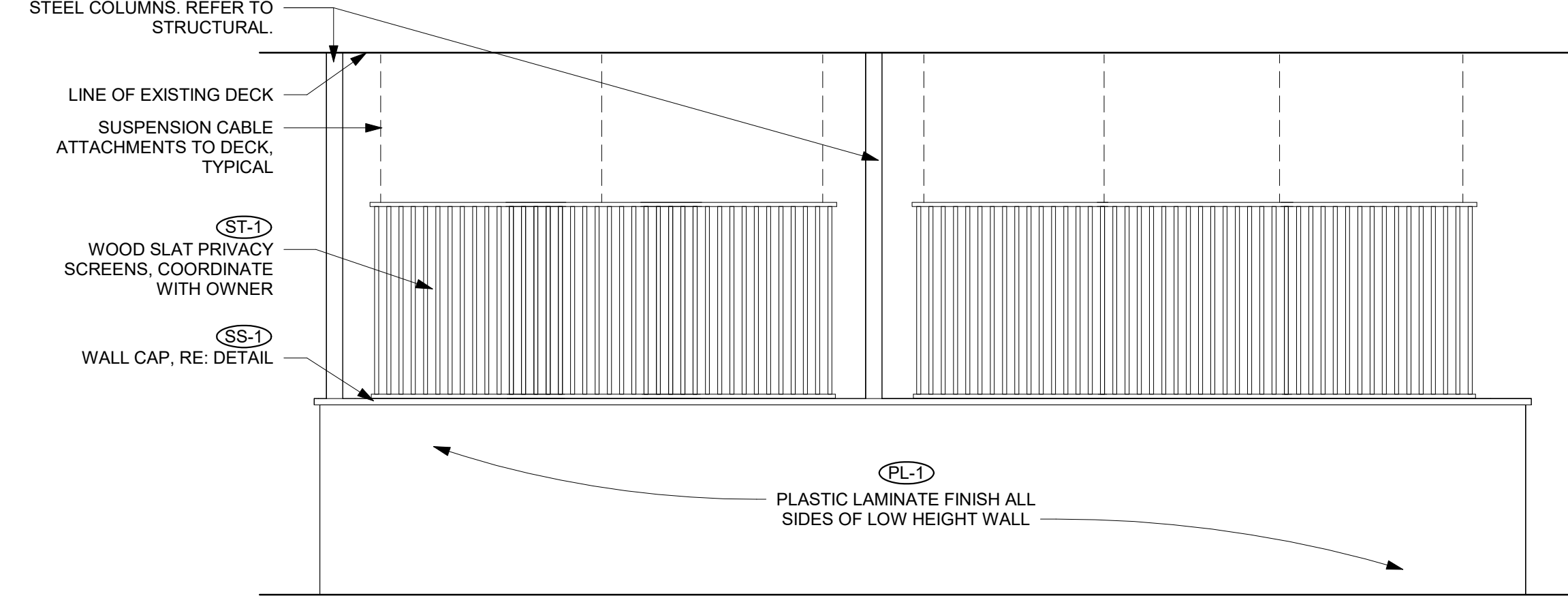
**7** DINING ROOM NORTH BOOTH SURROUND - NORTH ELEVATION

SCALE: 3/8" = 1'-0"



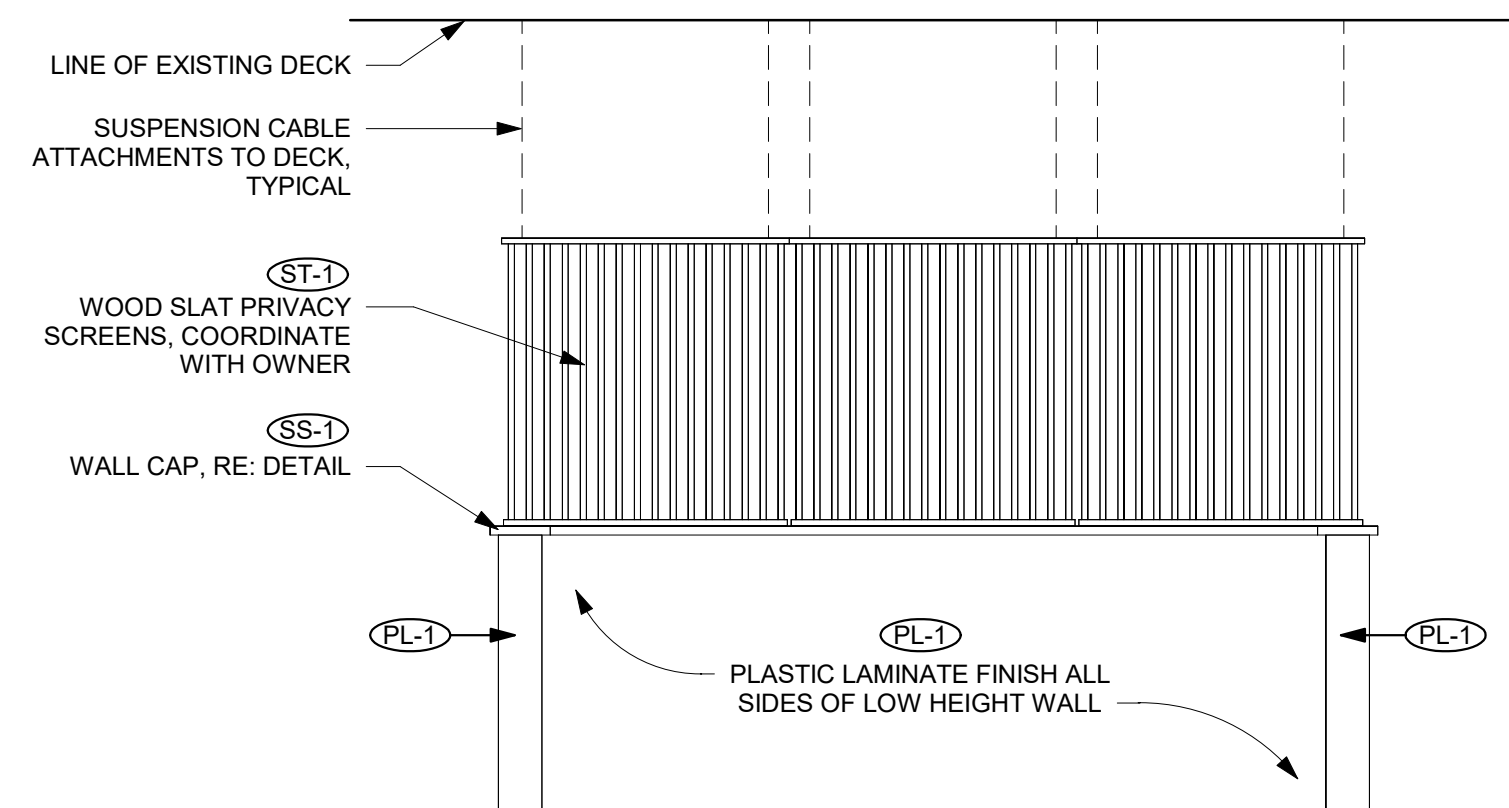
**6** DINING ROOM NORTH BOOTH SURROUND - WEST ELEVATION (EAST SIMILAR)

SCALE: 3/8" = 1'-0"



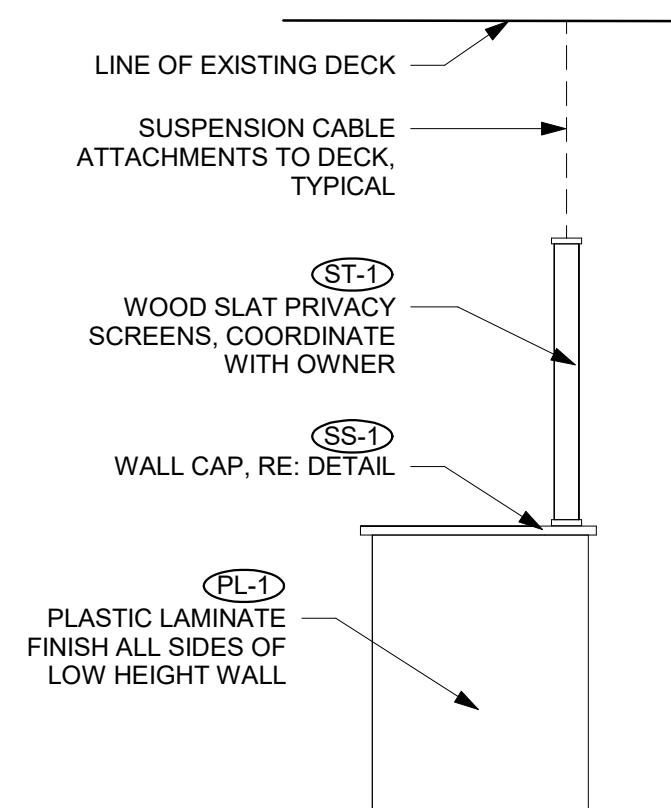
**5** DINING ROOM NORTH BOOTH SURROUND - SOUTH ELEVATION

SCALE: 3/8" = 1'-0"



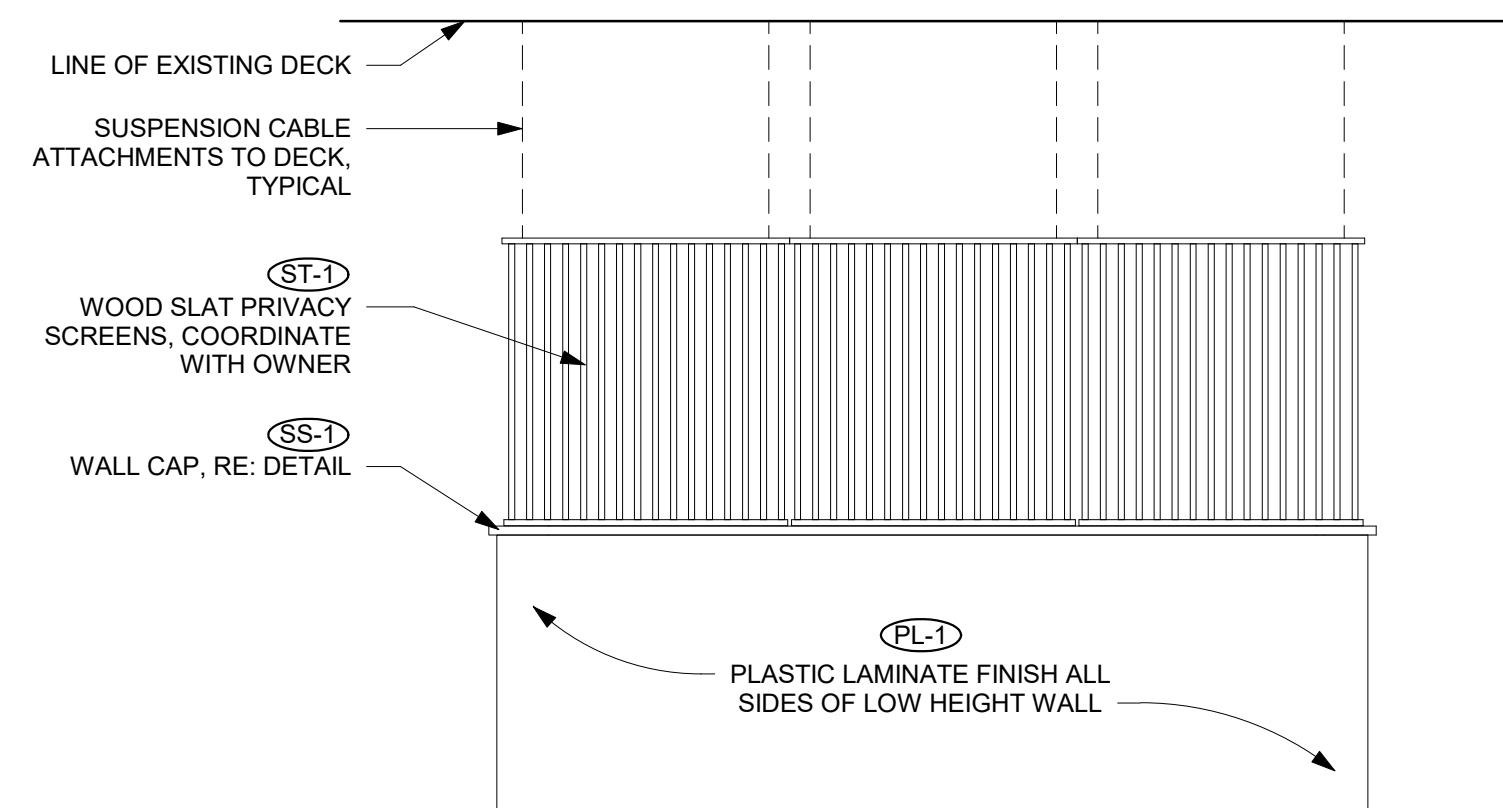
**4** SOUTH DINING ROOM BOOTH SURROUND - SOUTH ELEVATION

SCALE: 3/8" = 1'-0"



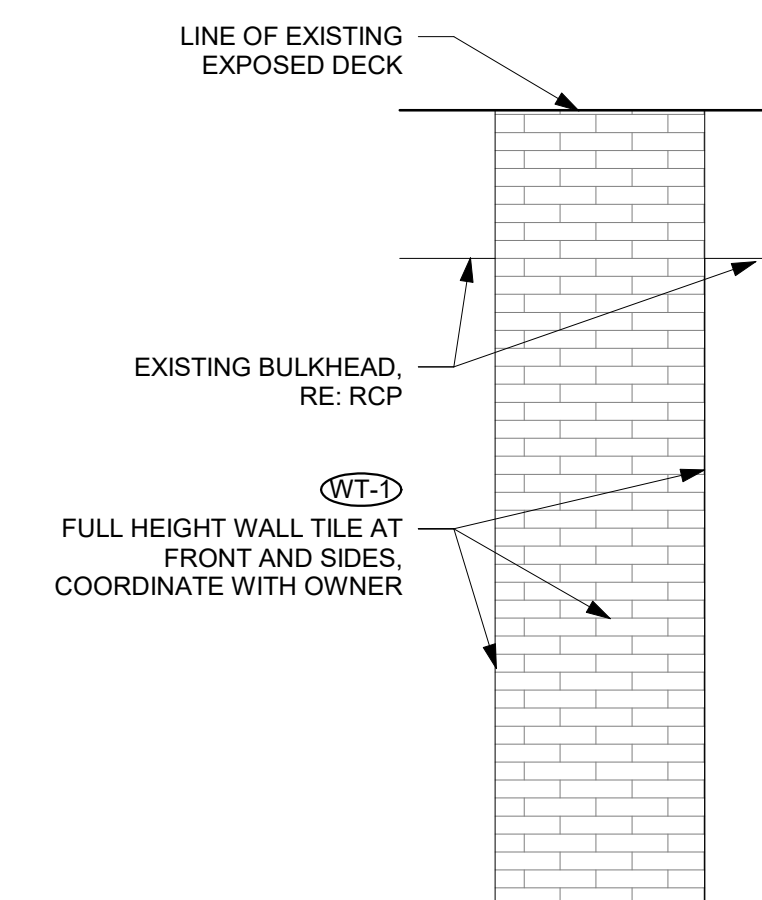
**3** SOUTH DINING ROOM BOOTH SURROUND - EAST ELEVATION (WEST SIMILAR)

SCALE: 3/8" = 1'-0"



**2** SOUTH DINING ROOM BOOTH SURROUND - NORTH ELEVATION

SCALE: 3/8" = 1'-0"



**1** DINING ROOM - WEST ELEVATION

SCALE: 3/8" = 1'-0"

SHEET ISSUANCES	DESCRIPTION	DATE
DESIGN DEVELOPMENT	CONSTRUCTION DOCUMENTS	09-20-2024 10-11-2024



REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION - BOLTING

Table with 3 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC. Rows include inspection tasks prior to bolting, during bolting, and after bolting.

- PERIODIC: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. CONTINUOUS: PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROGRESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.

TABLE RECREATED FROM AISC 360-16 TABLES N5.6-1, N5.6-2, N5.6-3.

ABBREVIATIONS: Table listing various abbreviations and their corresponding full names, such as # POUND, AESS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, etc.

STRUCTURAL GENERAL NOTES

Project: Bonchon & Brown Larsen Structural Design Job Number: 2687

DESIGN CODE: International (Existing) Building Code; IBC 2021 Edition, and 2021 IEBC Risk Category: Table 1604.5 II Standard

DESIGN LOADS: Roofs: Ground Snow: Pg 35 psf (used for drifting calculations); Flat Roof Snow: Pf 30 psf (Min.); Snow Exposure Factor: Ce ASCE 7-16 Table 7.3-1 1.0; Snow importance Factor: Is ASCE 7-16 Table 1.5-2 1.0; Snow Thermal Factor: Ct ASCE 7-16 Table 7.3-2 1.0

FOUNDATION DESIGN: Soils engineer shall verify soil conditions and types during excavation and prior to concrete placement. Design of footings is based on a maximum allowable bearing pressure of 1500 psf

STRUCTURAL CONCRETE: Design is based on "Building Code Requirements for Structural Concrete"(ACI 318-19). Concrete work shall conform to "Standard Specifications for Structural Concrete" (ACI 301-20).

Table with 7 columns: Intended Use, Exposure Category, f'c (psi) 28 day, Maximum w/cm, Maximum Aggregate, Entrained Air (+1.5%), Cement Type. Rows include Foundations, Interior Slab-on-Grade.

Concrete mix designs shall be submitted to the engineer of record no less than 15 working days prior to the commencement of pouring. Water cement ratios shall in no case exceed 0.55. Slump of concrete shall be specified by the concrete sub-contractor to provide adequate workability and finishing of the concrete being placed.

Anchor bolts and rods for beam and column-bearing plates shall be placed with setting templates. Concrete shall not be placed until reinforcing and embedded items have been inspected by a qualified special inspector employed by the owner in accordance with IBC Section 1704.4.

- 1. A minimum of one sample from each days pour of each mix of concrete. 2. A minimum of one sample for each 150 cubic yards of concrete for each mix placed each day. 3. A minimum of 5 samples total for each mix design are required. If the frequency or amount of concrete to be placed provides less than 5 total samples for a particular mix, then samples shall be obtained from five randomly selected batches or from each batch if fewer than five batches are used.

POST-INSTALLED ANCHORS AND REBAR NOTES:

- 1. Drill and install post-installed anchors according to manufacturer's printed installation instructions and per manufacturer's on-site training. 2. All post-installed anchors shall meet ICC-ES Compliance for each type of application. 3. Anchor capacities are dependent upon spacing between anchors and proximity to edges of concrete or masonry.

STRUCTURAL STEEL: Structural steel shall be detailed, fabricated, and erected in accordance with the "Specification for Structural Steel Buildings" (AISC 360-16) and the "Code of Standard Practice for Steel Building and Bridges" (AISC 303-16), by the American Institute of Steel Construction (AISC).

Structural steel wide flange beams shall conform to ASTM A992. Other rolled shapes, including plates, channels, and angles shall conform to ASTM A36. Hollow structural section (HSS) tube shapes shall conform to ASTM A500, Grade B, 46 ksi yield. Pipe shapes shall conform to ASTM A53 Grade B.

STRUCTURAL WOOD FRAMING:

In-Grade Base Values have been used for design. 2x framing shall be Hem-Fir S4S N.2 and better unless noted. All lumber shall be 19% maximum moisture content, unless noted. Conventional light framing shall comply with IBC Section 2308. Except as noted otherwise, minimum nailing shall be provided as specified in IBC Table 2304.10.2 "Fastening Schedule".

PLANT FABRICATED / PRE-ENGINEERED WOOD FRAMING: Beams noted as LVL on plan shall be 1-3/4" wide Laminated Veneer Lumber beams of the depth noted on plan. Shall be plant-fabricated and manufactured by Red-Built or equal. Shall have the following minimum allowable design stresses: Fb = 2600 psi Fv = 285 psi Fc (||) = 2510 psi Fc(perp) = 750 psi E = 2000 ksi

SHOP DRAWINGS:

Construction Documents are copyrighted and shall not be copied for use as erection plans or shop details. Use of Larsen Structural Design's electronic files as base for shop drawings requires prior approval by Larsen Structural Design, signed release of liability by subcontractor, and deletion of Larsen Structural Design's name and Logo from all sheets so used.

LETTERS OF CONSTRUCTION COMPLIANCE: The General Contractor shall determine from the local building official at the time the building permit is obtained whether any letters of construction compliance will be requested from the Structural Engineer.

INSPECTIONS AND REVIEWS:

All site soils related work and footing excavations prior to placing forms, as well as site drainage, shall be reviewed by the project geotechnical engineer. Normal reviews by Local Building Department.

Required special inspections per I.B.C. Section 1705 by an approved special inspector retained by owner. \* Concrete Observation of reinforcing, embeds, and forms prior to placement of concrete and observation during placement of concrete as well as taking and testing of specimens. Refer to Section 1705.3 and Table 1705.3 of the I.B.C.

Duties and responsibilities of the special inspector shall be to observe and/or test the work assigned and outlined above for conformance with the approved construction documents. All discrepancies shall be brought to the immediate attention of the contractor for correction.

The special inspector shall furnish regular reports to the building official, the engineer and architect of record, and other designated persons. Progress reports for continuous inspection shall be furnished weekly. Individual reports of periodic inspections shall be furnished within one week of inspection dates. The reports shall note uncorrected deficiencies, correction of previously reported deficiencies, and changes to the approved construction documents authorized by engineer of record.

The special inspector shall submit a final signed report within 10 days of the final special inspection stating whether the work requiring special inspection was, to the best of the inspector's knowledge and belief, in conformance with the approved construction documents and the applicable workmanship provisions of the International Building Code. Work not in compliance shall be noted in the report.

FIELD VERIFICATION OF EXISTING CONDITIONS:

Contractor shall thoroughly inspect and survey existing structure to verify conditions that affect the work shown on the drawings. Contractor shall report any variations or discrepancies to the Architect before proceeding. Contract documents have been prepared using limited site observations. During construction, the contractor may encounter existing conditions which are not now known or are variance with project documentation (discovery). contractor shall notify the engineer of all conditions not per the contract Documents, examples include:

STRUCTURAL ERECTION AND BRACING REQUIREMENTS:

The structural drawings illustrate the completed structure with elements in their final positions, properly supported and braced. These construction documents contain typical and representative details to assist the contractor. Details shown apply to all similar conditions unless otherwise indicated. Although due diligence has been applied to make the drawings as complete as possible, not every detail is illustrated, nor is every exceptional condition addressed.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

Table with 5 columns: TYPE, CONTINUOUS, PERIODIC, REFERENCED STANDARD, IBC REFERENCE. Rows include inspection reinforcement and verify placement, reinforcing bar welding, inspect anchors cast in concrete, inspect anchors post-installed in hardened concrete members, verify use of required design mix, prior to concrete placement, fabricate specimens for strength tests, inspect concrete placement for proper application techniques, verify maintenance of specified curing temperature and techniques, inspect formwork for shape, location and dimensions of the concrete member being formed.

- a. WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES, WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

TABLE RECREATED FROM IBC 2021 TABLE 1705.3

BONCHON & BROWN DONKATSU

7 OLD TOWN SQUARE FORT COLLINS, CO 80524



419 CANYON AVE STE 200, FORT COLLINS, CO 80521 970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN STRENGTH IN PARTNERSHIP STRENGTH IN COMMUNITY

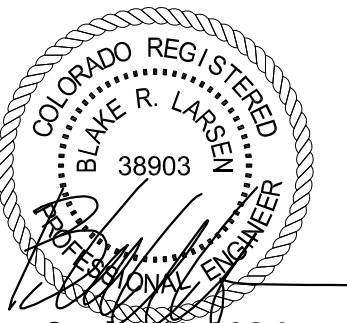
PROJECT TEAM

- STRUCTURAL ENGINEER: LARSEN STRUCTURAL DESIGN MECHANICAL ENGINEER: INTEGRATED MECHANICAL, LLC. PLUMBING ENGINEER: INTEGRATED MECHANICAL, LLC. ELECTRICAL ENGINEER: APS, INC.

CONSTRUCTION DOCUMENTS

Table with 2 columns: SHEET ISSUANCES, DATE. Row: CONSTRUCTION DOCUMENTS, 10/11/2024

SEAL:



October 11, 2024

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GENERAL NOTES AND SPECIAL INSPECTIONS

DRAWING NUMBER:

S0.1

**PROJECT TEAM**

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:  
INTEGRATED MECHANICAL, LLC.

PLUMBING ENGINEER:  
INTEGRATED MECHANICAL, LLC.

ELECTRICAL ENGINEER:  
APS, INC.

**CONSTRUCTION DOCUMENTS**

SHEET ISSUANCES	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	10/11/2024

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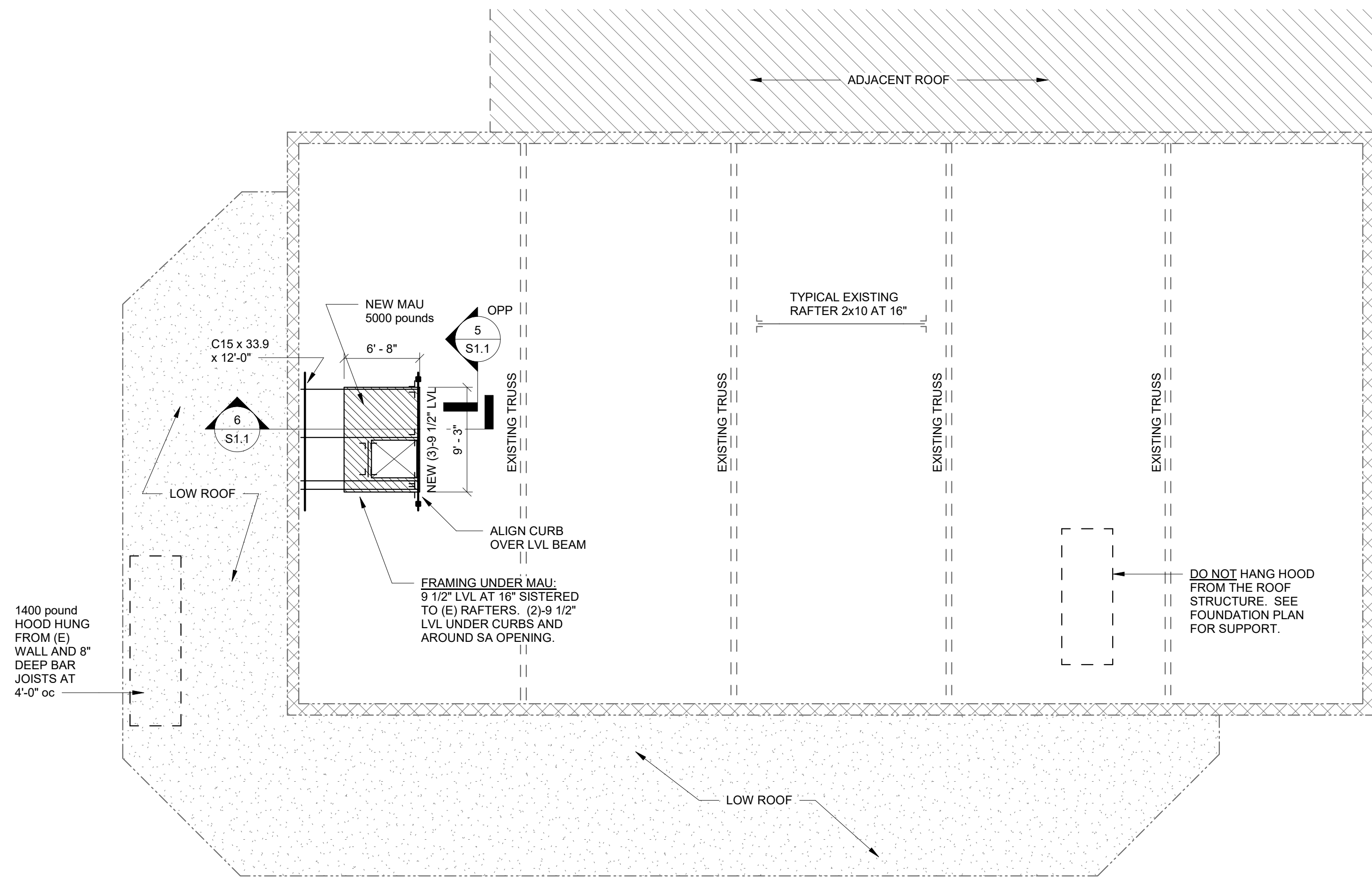


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**FOUNDATION, MAIN LEVEL, AND ROOF FRAMING PLANS AND DETAILS**

DRAWING NUMBER:

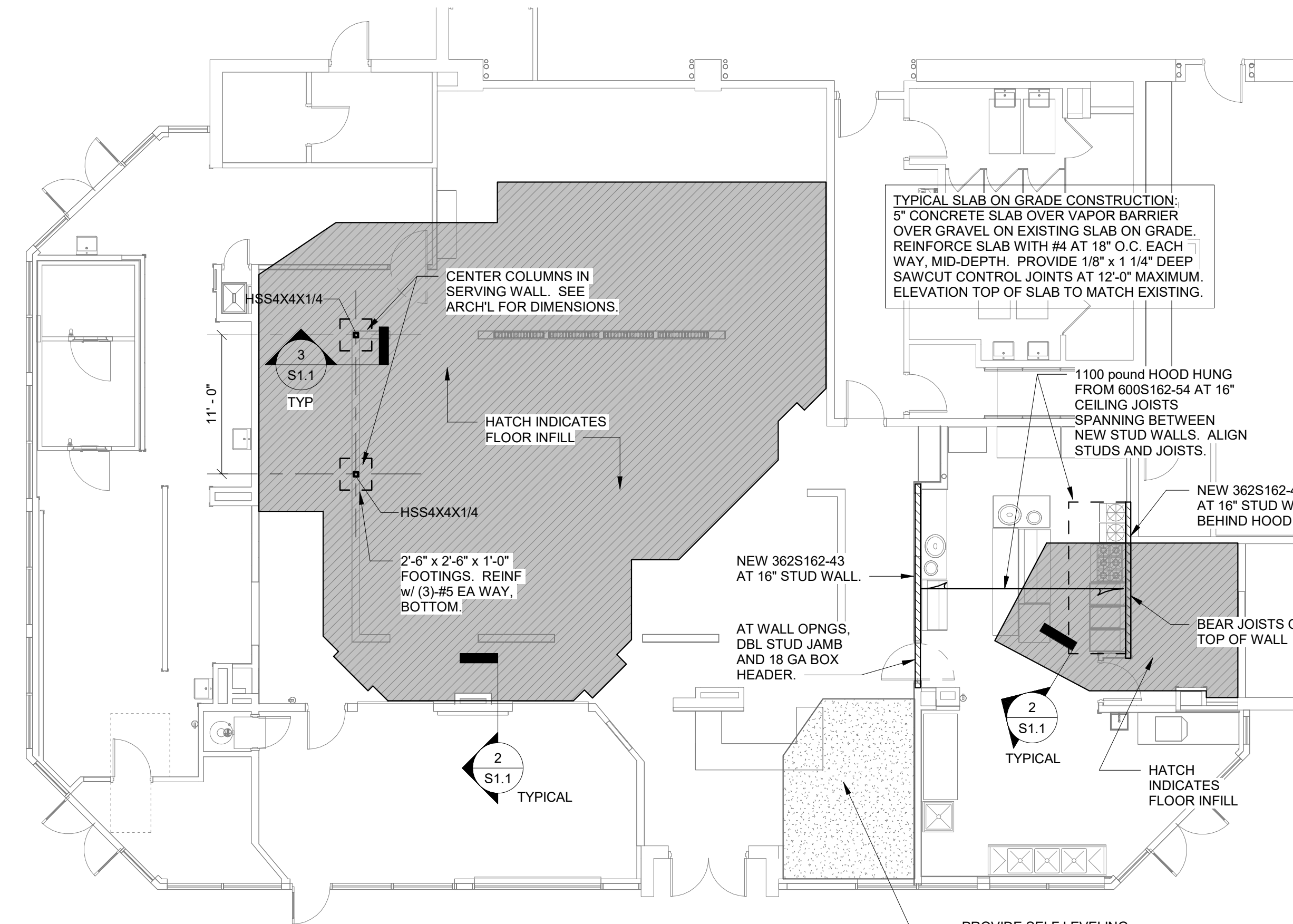
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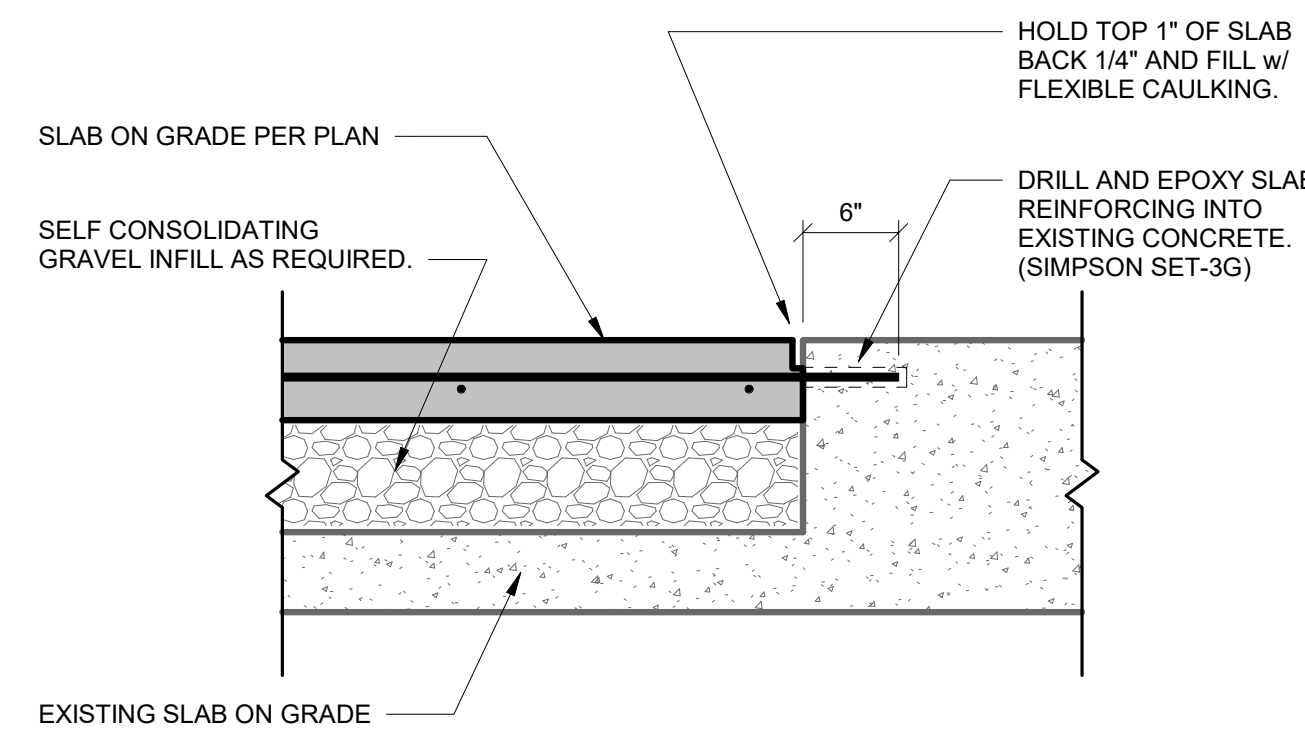
**4**  
S1.1  
**ROOF FRAMING PLAN**  
1/8" = 1'-0"

JOIST/BEAM SIZE	SIMPSON HANGER	
	TOP FLANGE	FACE MOUNT
(E) 2x10	--	LU28
9 1/2" LVL	--	HU9 MIN
(2) - 9 1/2" LVL	--	U410
NEW LVL + (E) RAFTER	--	U410 w/ SHIM

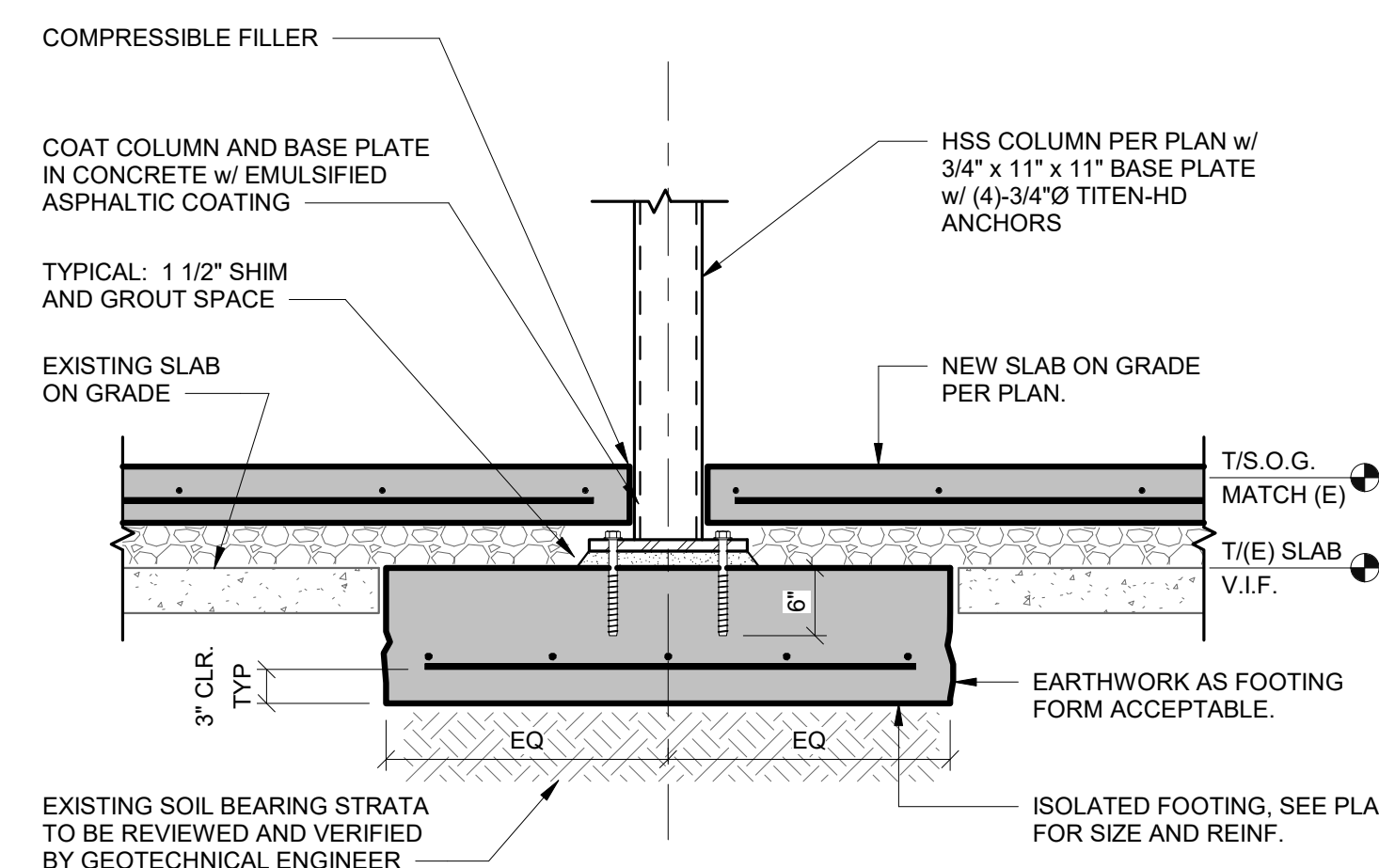
- NOTES:**
1. PROVIDE MAXIMUM NUMBER OF FASTENERS FOR HANGER AS SPECIFIED BY MANUFACTURER
  2. PROVIDE HANGER IN SCHEDULE U.N.O. ON PLAN IF A BEAM OR JOIST REQUIRES A HANGER THAT HAS NOT BEEN SHOWN IN THE SCHEDULE, CONTACT STRUCTURAL ENGINEER WITH PREFERRED HANGER FOR VERIFICATION
  - 3.



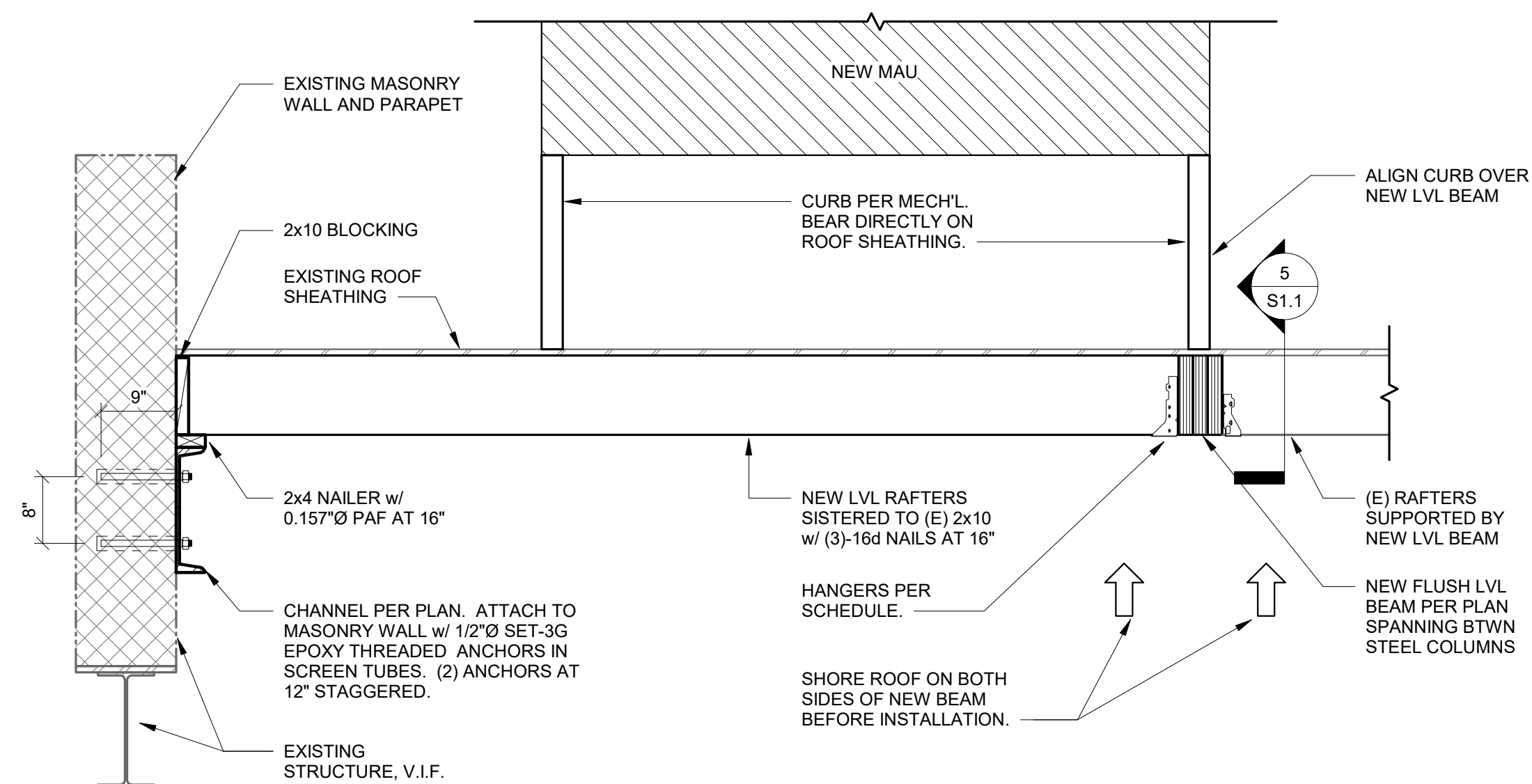
**1**  
S1.1  
**FOUNDATION AND MAIN LEVEL PLAN**  
1/8" = 1'-0"



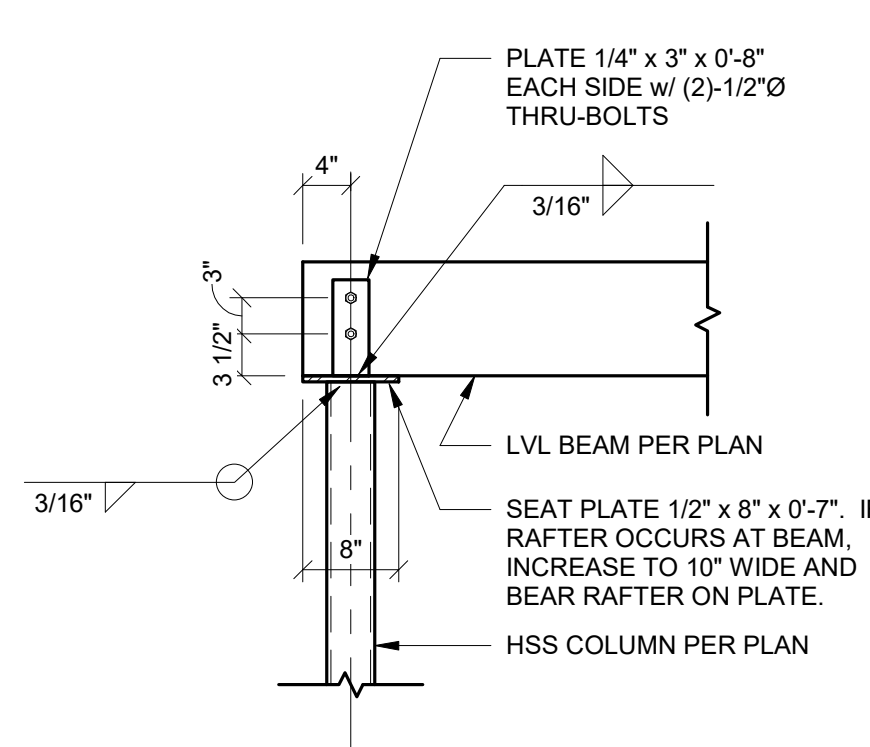
**2**  
S1.1  
**FLOOR INFILL EDGE DETAIL**  
1" = 1'-0"



**3**  
S1.1  
**NEW INTERIOR COLUMN ON ISOLATED FOOTING AT EXISTING SLAB**  
3/4" = 1'-0"



**6**  
S1.1  
**NEW MAU SUPPORT**  
3/4" = 1'-0"

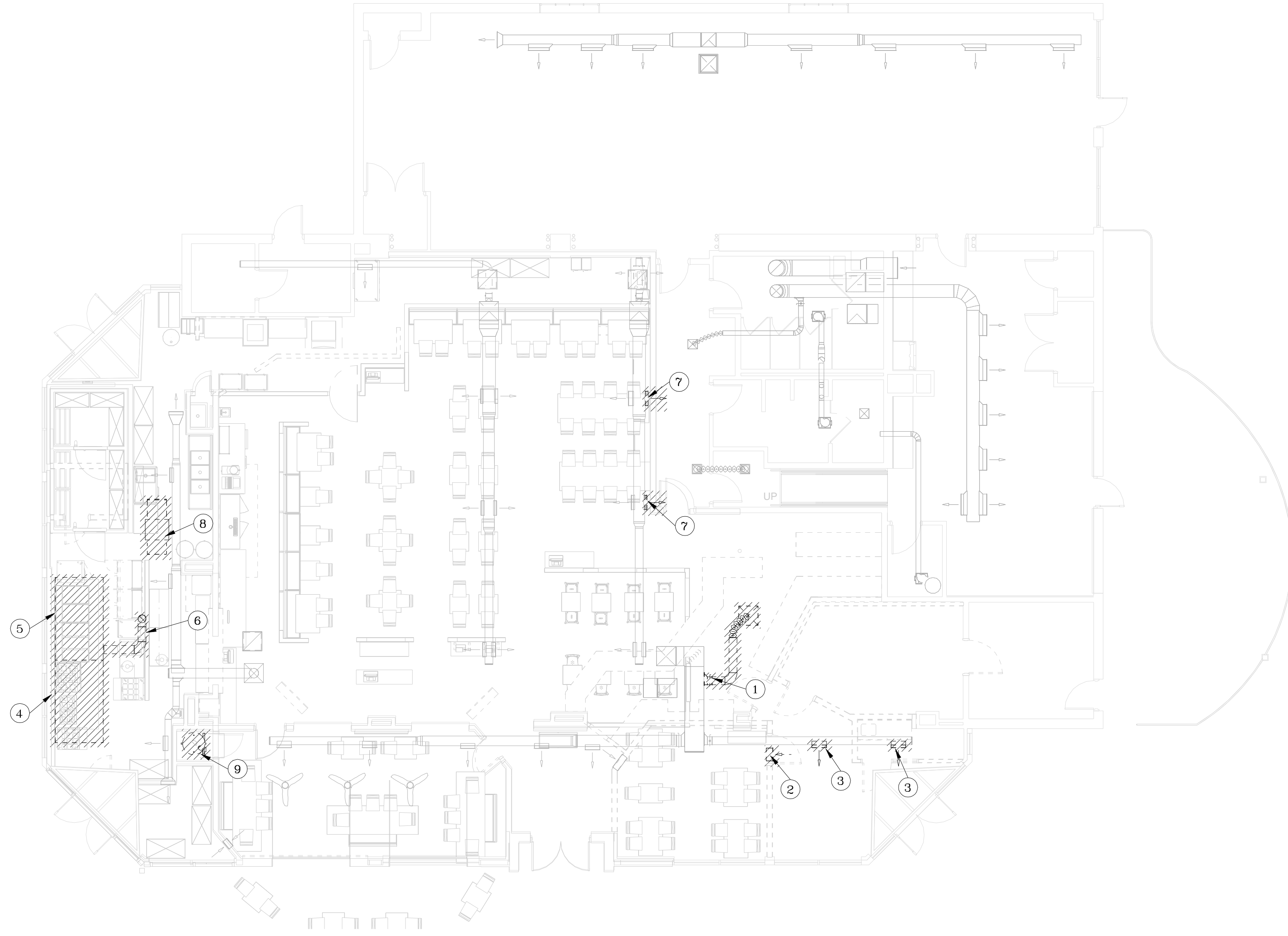


**5**  
S1.1  
**COLUMN TO BEAM CONNECTION**  
3/4" = 1'-0"

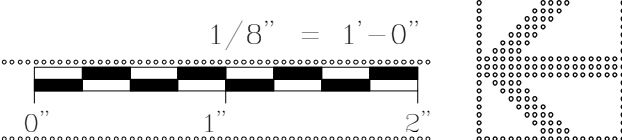


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HVAC DEMO  
PLAN



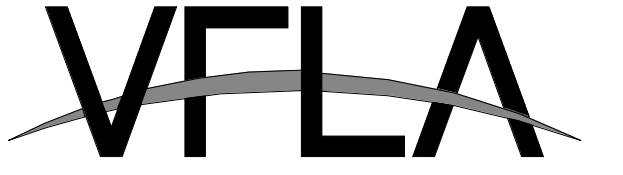
FLAG NOTES:

- 1 DEMO DUCTWORK AS SHOWN. SEAL DUCT MAIN AIRTIGHT.
- 2 DEMO TRANSFER GRILLE(S).
- 3 DEMO SUPPLY DIFFUSER. SEAL REMAINING DUCT AIRTIGHT.
- 4 DEMO EXISTING GREASE HOOD.
- 5 DEMO EXISTING HEAT HOOD.
- 6 DEMO EXISTING HEAT HOOD EXHAUST DUCTWORK.
- 7 REMOVE (E) SUPPLY DIFFUSER. SEAL REMAINING DUCT AIRTIGHT. DIFFUSER TO BE RELOCATED. SEE SHEET H2.1.
- 8 DEMO EXISTING MAKE-UP AIR AND AIR INTAKE THRU ROOF.
- 9 DEMO EXISTING WATER HEATER AND FLUE THRU ROOF.

PROJECT NUMBER: 00-000

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IN ASSOCIATION WITH:



**INTEGRATED  
MEP**

320 MAPLE ST, SUITE 110  
FORT COLLINS, CO 80521  
970-556-0570

### PERMIT SET

Issued		
No.	Description	Date
1	DESIGN DEVELOPMENT	20 SEPT 2024
2	PERMIT SET	11 OCT 2024
3		
4		
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Revisions		
No.	Description	Date

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## HVAC DEMO FLOOR PLAN

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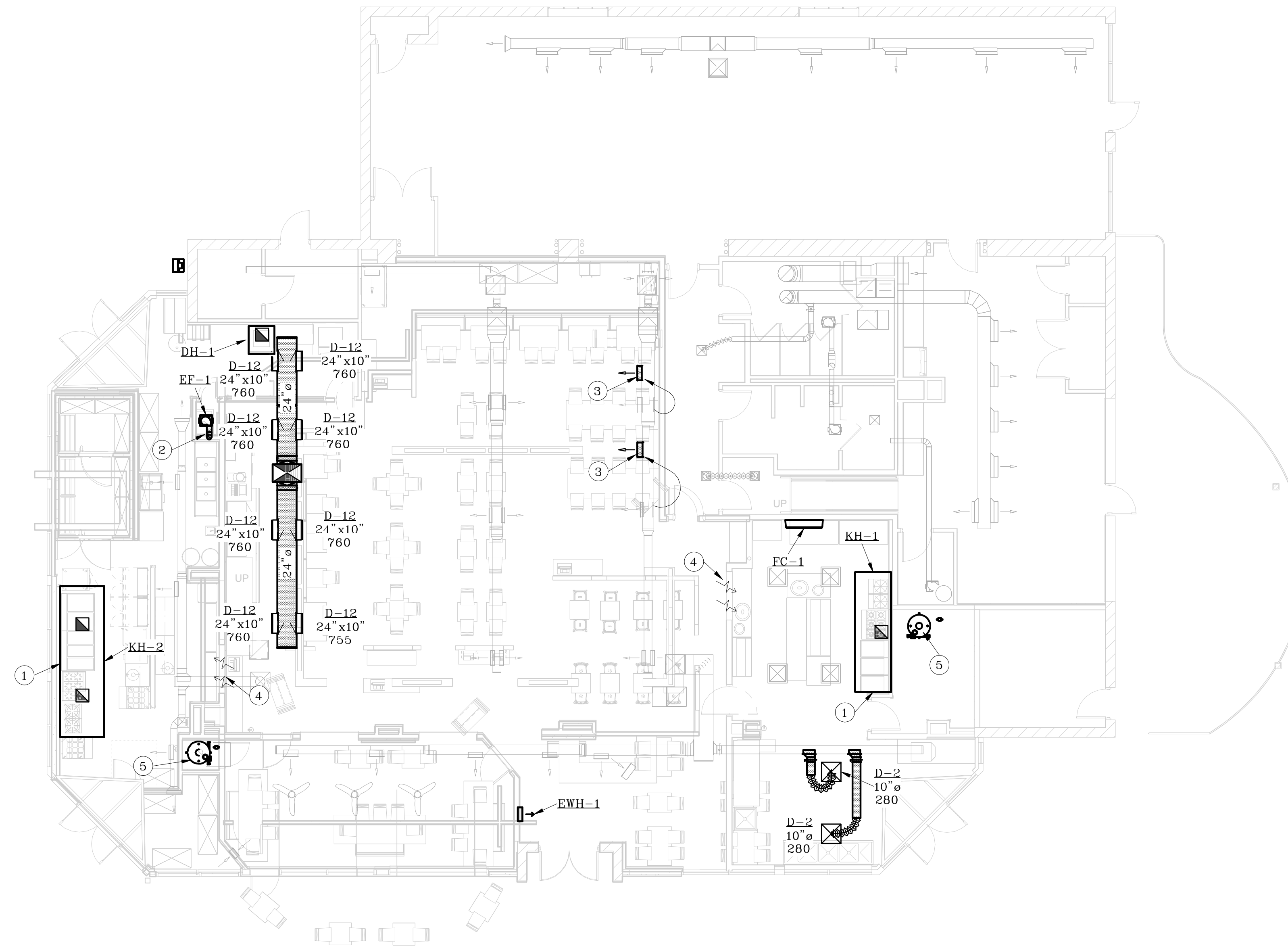
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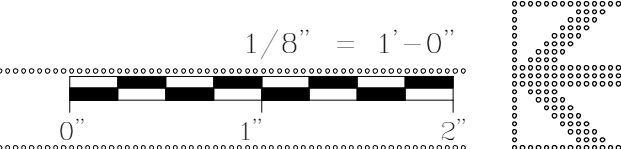
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FLAG NOTES:

- 1 PROVIDE AND INSTALL NEW GREASE HOOD.
- 2 RUN 6" EXHAUST DUCT FROM FAN THROUGH ROOF TO ROOFCAP.
- 3 RELOCATED SUPPLY DIFFUSER. REPROPORTION SUPPLY AIRFLOW EVENLY ACROSS ALL DIFFUSERS ON THIS SYSTEM.
- 4 PERMANENT 24" HIGH BY 60" WIDE WALL OPENING. THIS WILL SERVE AS A TRANSFER AIR PATH TO THE KITCHEN.
- 5 RUN 3" PVC CA AND FLUE UP THROUGH ROOF. OFFSET AS NEEDED TO STAY 10' CLEAR FROM ANY OA INTAKE.



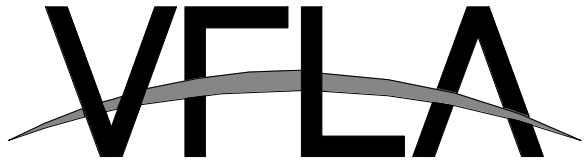
HVAC FLOOR  
PLAN



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BROWN  
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HVAC FLOOR PLAN

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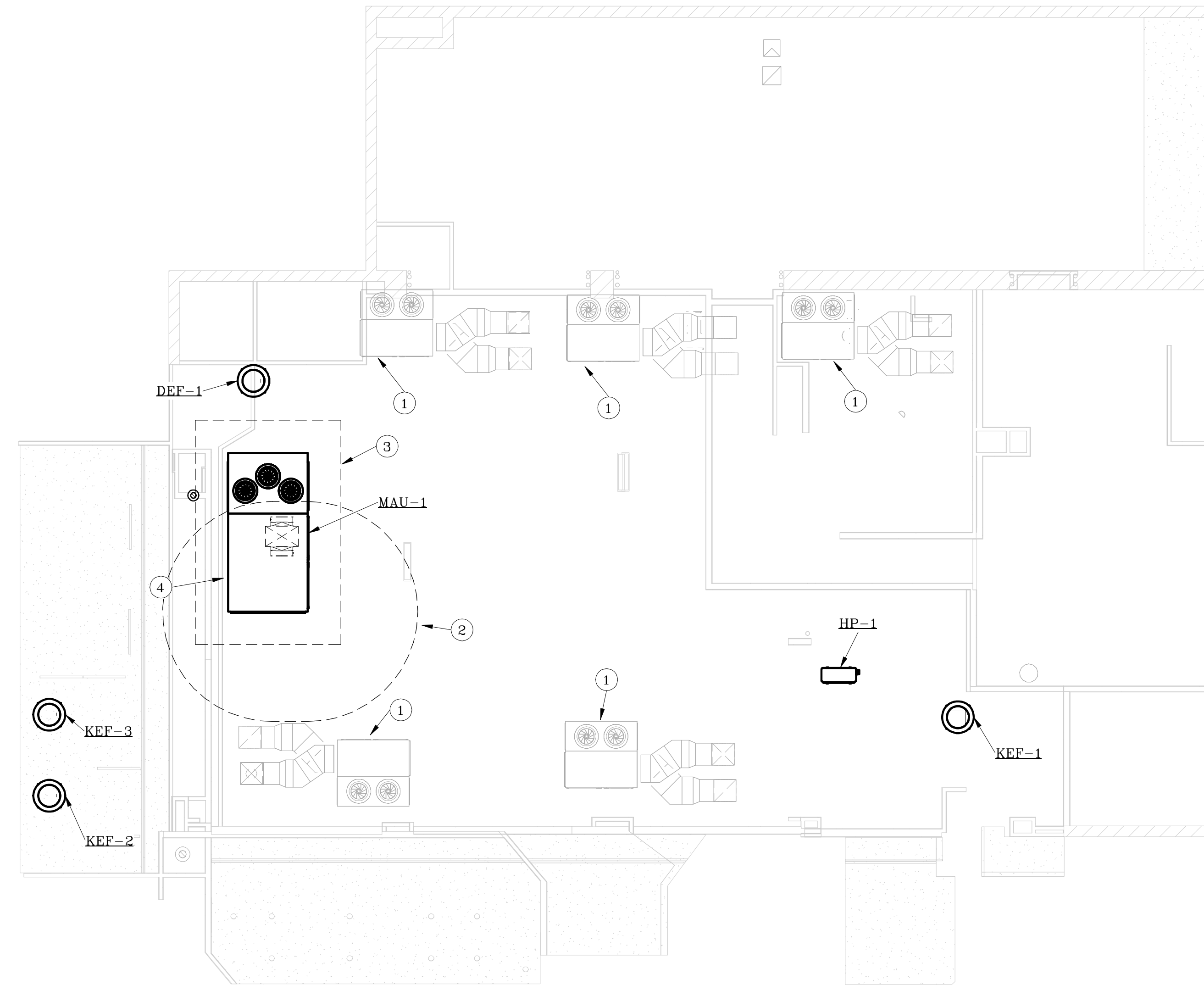
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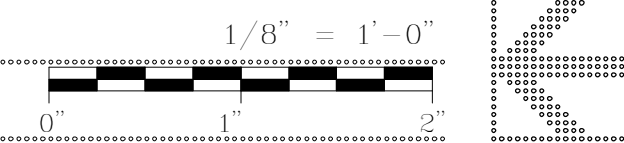
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**FLAG NOTES:**

- 1 EXISTING HVAC EQUIPMENT TO REMAIN.
- 2 DO NOT INSTALL ANY EXHAUST, VENTS OR FLUES WITHIN THIS OUTSIDE AIR INTAKE ZONE.
- 3 MC TO PROVIDE AND INSTALL SCREEN WALL ON MAU-1.
- 4 INSTALL MAU ON 20" HIGH CURB TO CLEAR EXISTING PARAPET.



HVAC ROOF  
PLAN



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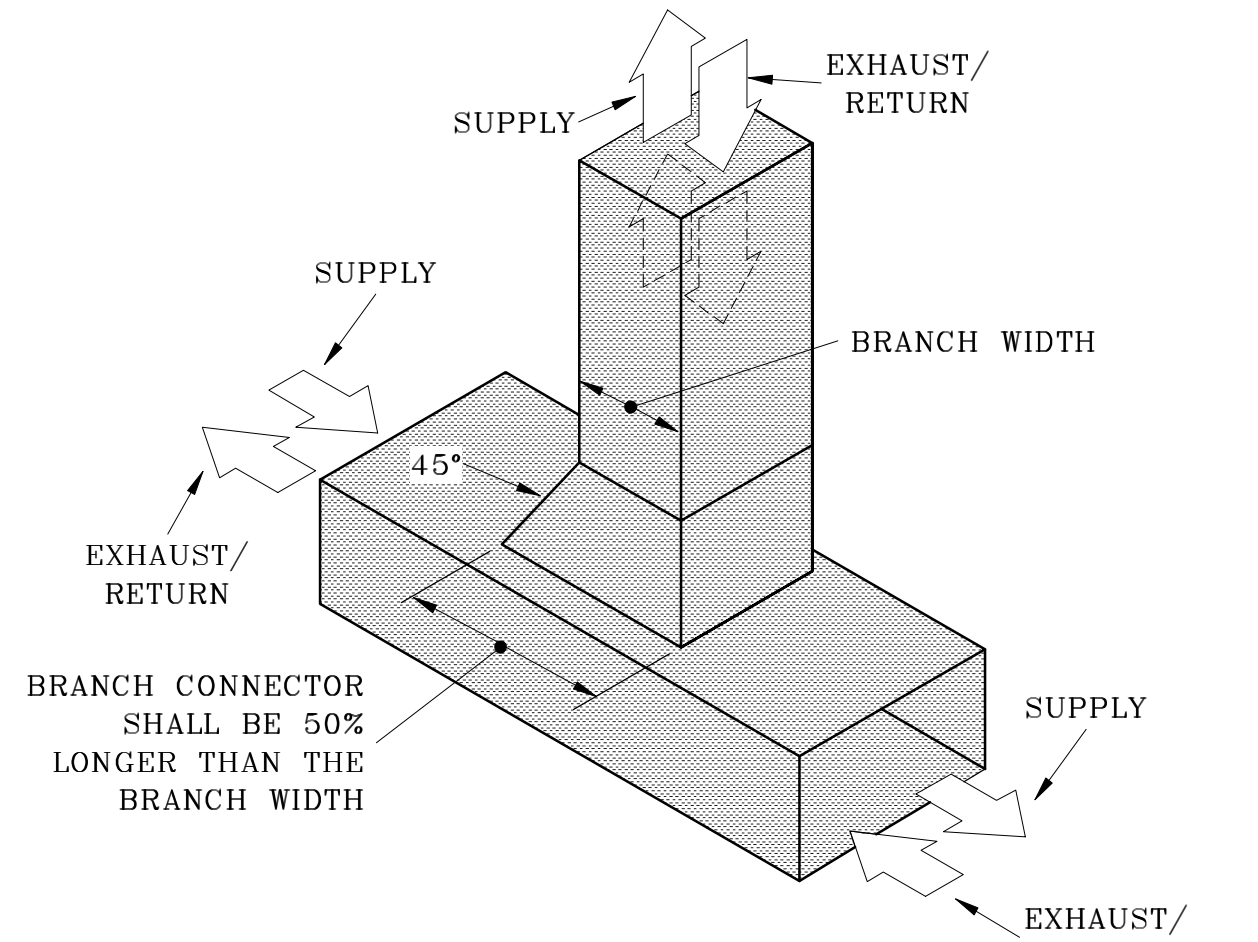
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HVAC ROOF PLAN

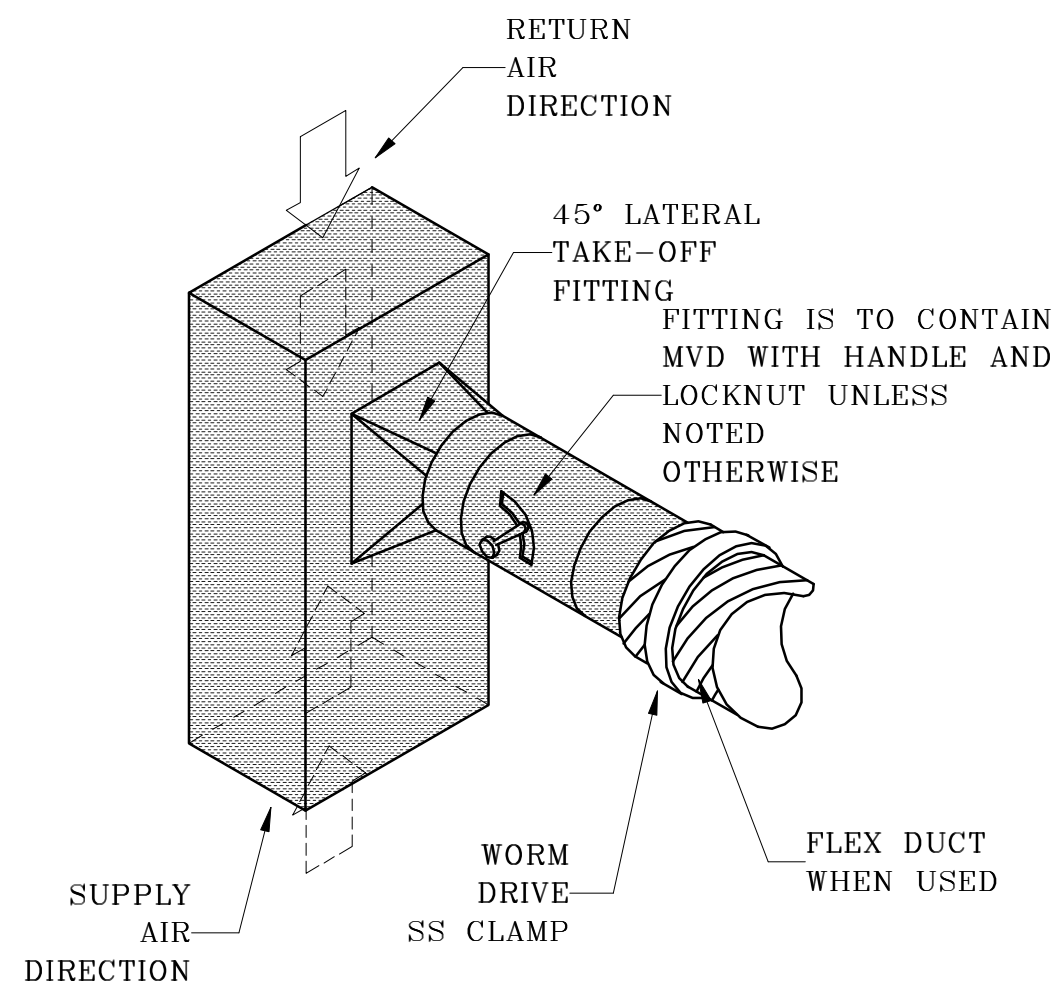
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H2.2

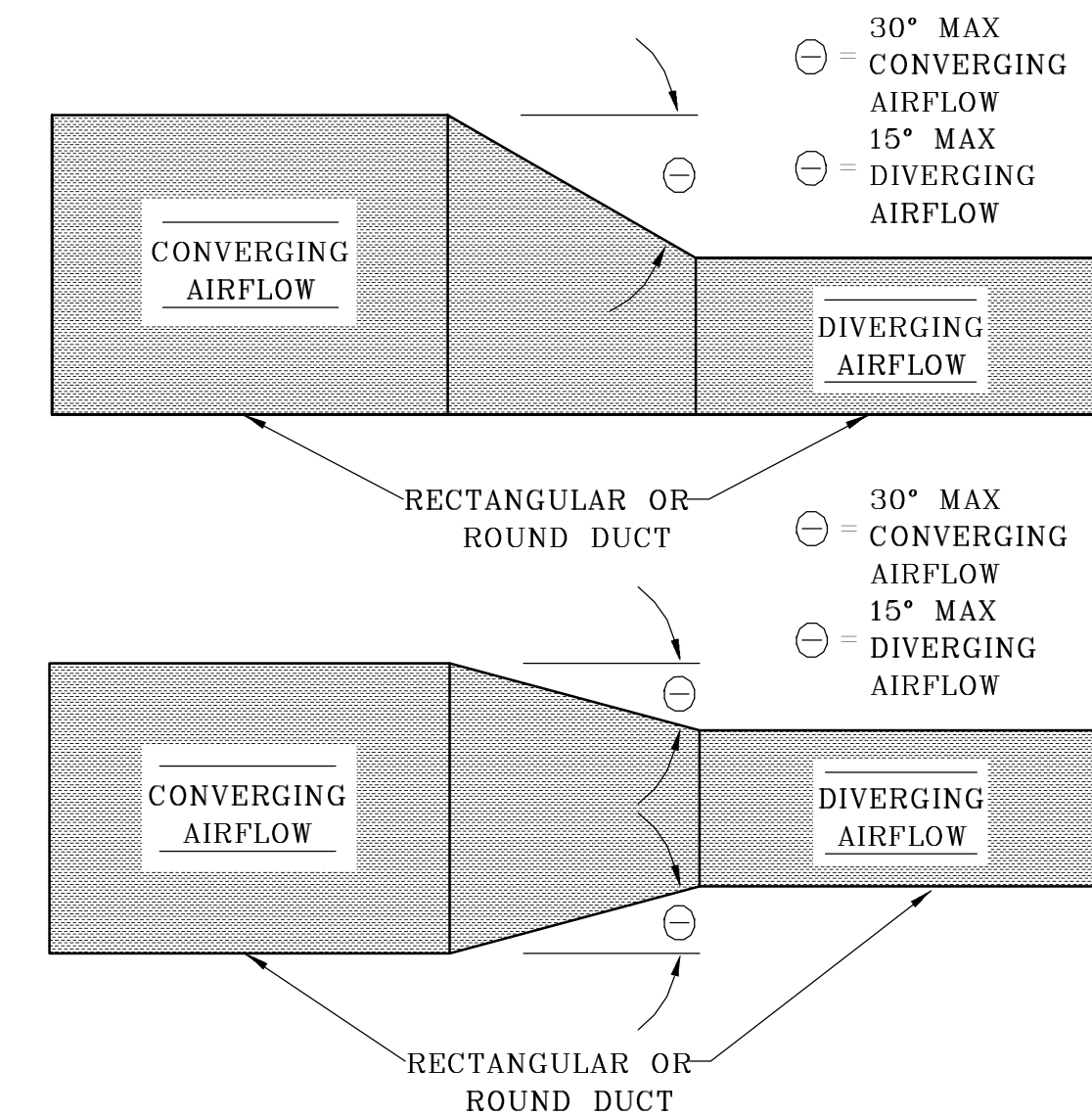




DUCT TAKE-OFF DETAIL  
RECTANGULAR SCALE: NONE

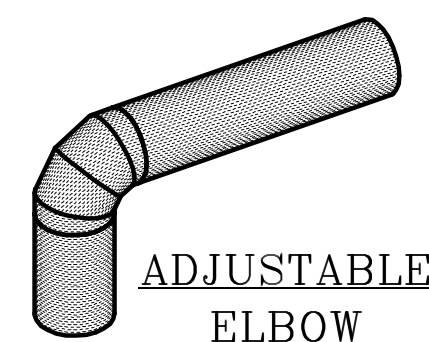


DUCT TAKE-OFF DETAIL  
ROUND SCALE: NONE

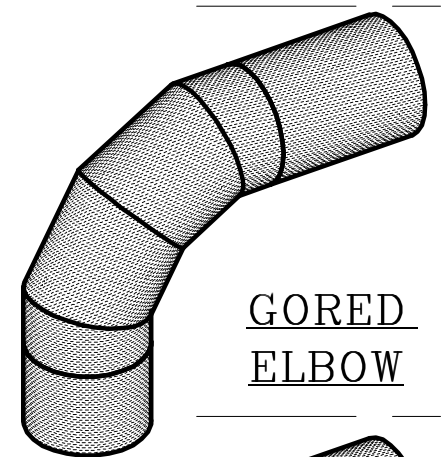


NOTE: 1) DETAIL APPLIES TO ALL DUCTWORK  
2) ON DUCTWORK TRANSITIONING ON ALL FOUR SIDES, NONE OF THE TRANSITION ANGLES MAY EXCEED 15°

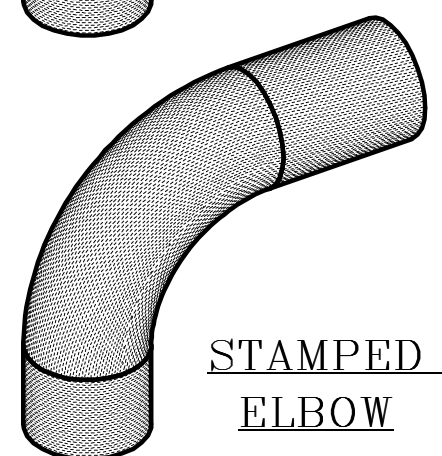
DUCT TRANSITION DETAIL SCALE: NONE



ADJUSTABLE ELBOW



GORED ELBOW



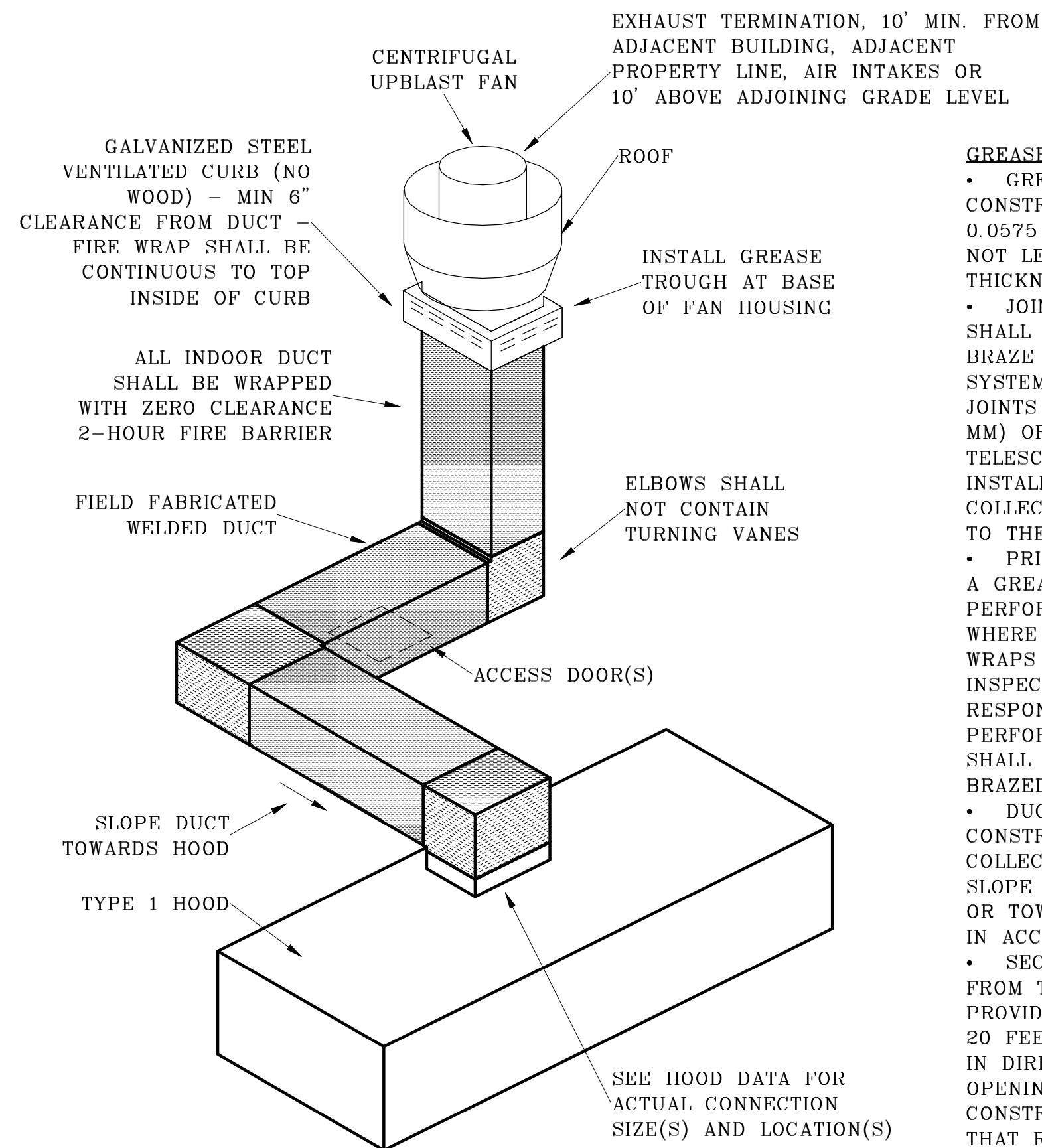
STAMPED ELBOW

ROUND DUCT ELBOW DETAIL SCALE: N/A

- PERMITTED USES:**
- ALL RESIDENTIAL SYSTEMS
  - DUCT SYSTEMS 12" DIAMETER AND LESS AND CONCURRENTLY 2"WC PRESSURE CLASS AND LESS
- PROHIBITED USES:**
- DUCT SYSTEMS OVER 2"WC PRESSURE CLASS
  - DUCTS LARGER THAN 12" DIAMETER
  - DUST COLLECTION SYSTEMS
  - STAINLESS OR ALUMINUM DUCT SYSTEMS
  - GREASE DUCT SYSTEMS

- REQUIREMENTS:**
- MINIMUM 5 GORE
  - MAY BE USED FOR ANY SIZE
  - 1.5 CENTERLINE RADIUS
  - JOINTS MAY REQUIRE FULL WELDING - SEE GENERAL NOTES

- REQUIREMENTS:**
- ANY PRESSURE CLASS
  - MAY BE USED FOR ANY SIZE
  - 1.5 CENTERLINE RADIUS
  - JOINTS MAY REQUIRE FULL WELDING - SEE GENERAL NOTES

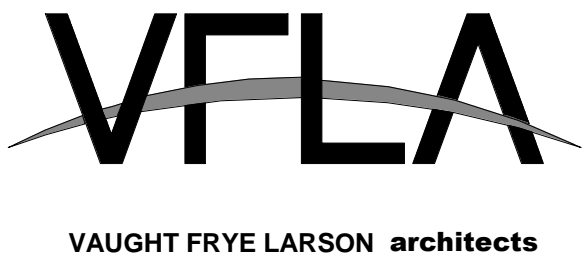


GREASE DUCT DETAIL SCALE: NONE

- GREASE DUCT NOTES:**
- GREASE DUCTS SERVING TYPE I HOODS SHALL BE CONSTRUCTED OF STEEL HAVING A MINIMUM THICKNESS OF 0.0575 INCH (1.463 MM) (NO. 16 GAUGE) OR STAINLESS STEEL NOT LESS THAN 0.0450 INCH (1.14 MM) (NO. 18 GAUGE) IN THICKNESS.
  - JOINTS, SEAMS AND PENETRATIONS OF GREASE DUCTS SHALL BE MADE WITH A CONTINUOUS LIQUID-TIGHT WELD OR BRAZE MADE ON THE EXTERNAL SURFACE OF THE DUCT SYSTEM. DUCT JOINTS SHALL BE BUTT JOINTS, WELDED FLANGE JOINTS WITH A MAXIMUM FLANGE DEPTH OF 1/2 INCH (12.7 MM) OR OVERLAPPING DUCT JOINTS OF EITHER THE TELESCOPING OR BELL TYPE. OVERLAPPING JOINTS SHALL BE INSTALLED TO PREVENT LEDGES AND OBSTRUCTIONS FROM COLLECTING GREASE OR INTERFERING WITH GRAVITY DRAINAGE TO THE INTENDED COLLECTION POINT.
  - PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BE CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATINGS OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEST SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE LIQUID TIGHT.
  - DUCT SYSTEMS SERVING A TYPE I HOOD SHALL BE CONSTRUCTED AND INSTALLED SO THAT GREASE CANNOT COLLECT IN ANY PORTION THEREOF, AND THE SYSTEM SHALL SLOPE NOT LESS THAN 2-PERCENT SLOPE TOWARD THE HOOD OR TOWARD A GREASE RESERVOIR DESIGNED AND INSTALLED IN ACCORDANCE WITH CODE.
  - SECTIONS OF GREASE DUCTS THAT ARE INACCESSIBLE FROM THE HOOD OR DISCHARGE OPENINGS SHALL BE PROVIDED WITH CLEANOUT OPENINGS SPACED NOT MORE THAN 20 FEET APART AND NOT MORE THAN 10 FEET FROM CHANGES IN DIRECTION GREATER THAN 45 DEGREES. CLEANOUTS AND OPENINGS SHALL BE EQUIPPED WITH TIGHT-FITTING DOORS CONSTRUCTED OF STEEL HAVING A THICKNESS NOT LESS THAN THAT REQUIRED FOR THE DUCT AND HAVE OPENING DIMENSIONS OF NOT LESS THAN 12 INCHES BY 12 INCHES.

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HVAC DETAILS

DRAWING NUMBER:

H7.1

HOOD INFORMATION – JOB#7086703

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)						HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL		SP	END TO END	ROW
1	KH-1	5424 ND-2	CAPTIVEAIRE	12' 0"	600 DEG	I	HEAVY	250	3000			4'	18"	3000	1698	-0.951'	430 SS WHERE EXPOSED	ALONE	ALONE
2	KH-2	5424 ND-2	CAPTIVEAIRE	15' 0"	600 DEG	I	HEAVY	250	3750			4'	14"	1875	1754	-0.840'	430 SS WHERE EXPOSED	ALONE	ALONE
3	DH-1	4824 VHB-G-ND	CAPTIVEAIRE	4' 0"	700 DEG	II	N/A	200	800			4'	12"	800	1019	-0.118'	430 SS 100%	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD HANGING WEIGHT			
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE			SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY
1	KH-1	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	6	RECESSED ROUND	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1011	1 LIGHT 1 FAN	YES	1090 LBS
2	KH-2	CAPTRATE SOLO FILTER	11	20"	16"	85% SEE FILTER SPEC	7	RECESSED ROUND	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0/4.0	DCV-2011	1 LIGHT 1 FAN	YES	1385 LBS
3	DH-1						0									NO	201 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH-1	FIELD WRAPPER 18.00' HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122.00' HIGH X 108.00' LONG 430 SS VERTICAL.
		RIGHT SIDESPLASH 122.00' HIGH X 54.00' LONG 430 SS VERTICAL.
		RIGHT SIDESPLASH 122.00' HIGH X 36.00' LONG 430 SS VERTICAL.
		RIGHT SIDESPLASH 122.00' HIGH X 8.00' LONG 430 SS VERTICAL.
		RIGHT END STANDOFF (FINISHED) 1' WIDE 54' LONG INSULATED.
		INSULATION FOR TOP OF HOOD.
		STRUCTURAL FRONT PANEL.
		INSULATION FOR BACK OF HOOD.
		LEFT VERTICAL END PANEL 27' TOP WIDTH, 21' BOTTOM WIDTH, 80' HIGH INSULATED 430 SS.
		RIGHT WALL AS END PANEL.
		2
		BACKSPLASH 122.00' HIGH X 228.00' LONG 430 SS VERTICAL.
		INSULATION FOR TOP OF HOOD.
		STRUCTURAL FRONT PANEL.
		INSULATION FOR BACK OF HOOD.
		RIGHT VERTICAL END PANEL 27' TOP WIDTH, 21' BOTTOM WIDTH, 80' HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27' TOP WIDTH, 21' BOTTOM WIDTH, 80' HIGH INSULATED 430 SS.
3	DH-1	FIELD WRAPPER 18.00' HIGH FRONT, LEFT, RIGHT.

FIRE SYSTEM INFORMATION – JOB#7086703

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	37	FIRE CABINET LEFT	LEFT, HOOD 1
2		TANK FS	4.0/4.0/4.0	60	16	FIRE CABINET RIGHT	RIGHT, HOOD 2

GAS VALVE(S)

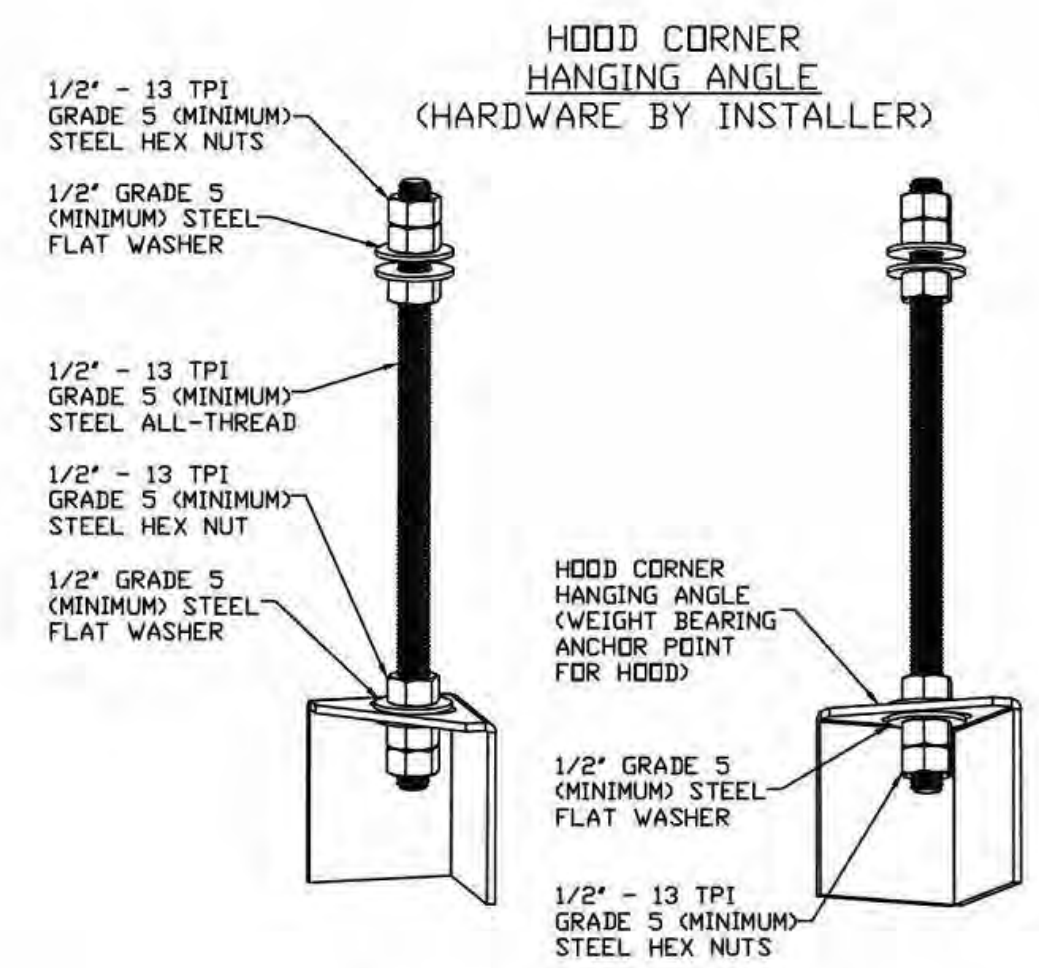
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS
2		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

Hoods are ETL Listed And Complies with UL710, ULC710, and ULC-S646 Standards. Fire Systems ETL Listed and Complies With UL300 and Meets requirements of NFPA 96 and NFPA 17A

**\*\*\* NOTE \*\*\***  
ALL WALLS AND STRUCTURES THAT COME WITHIN 18" OF HOOD MUST BE METAL STUDS AND SHEETROCK. WOOD STUDS OR ANY OTHER COMBUSTIBLE MATERIAL WITHIN 18" OF HOOD NOT ALLOWED

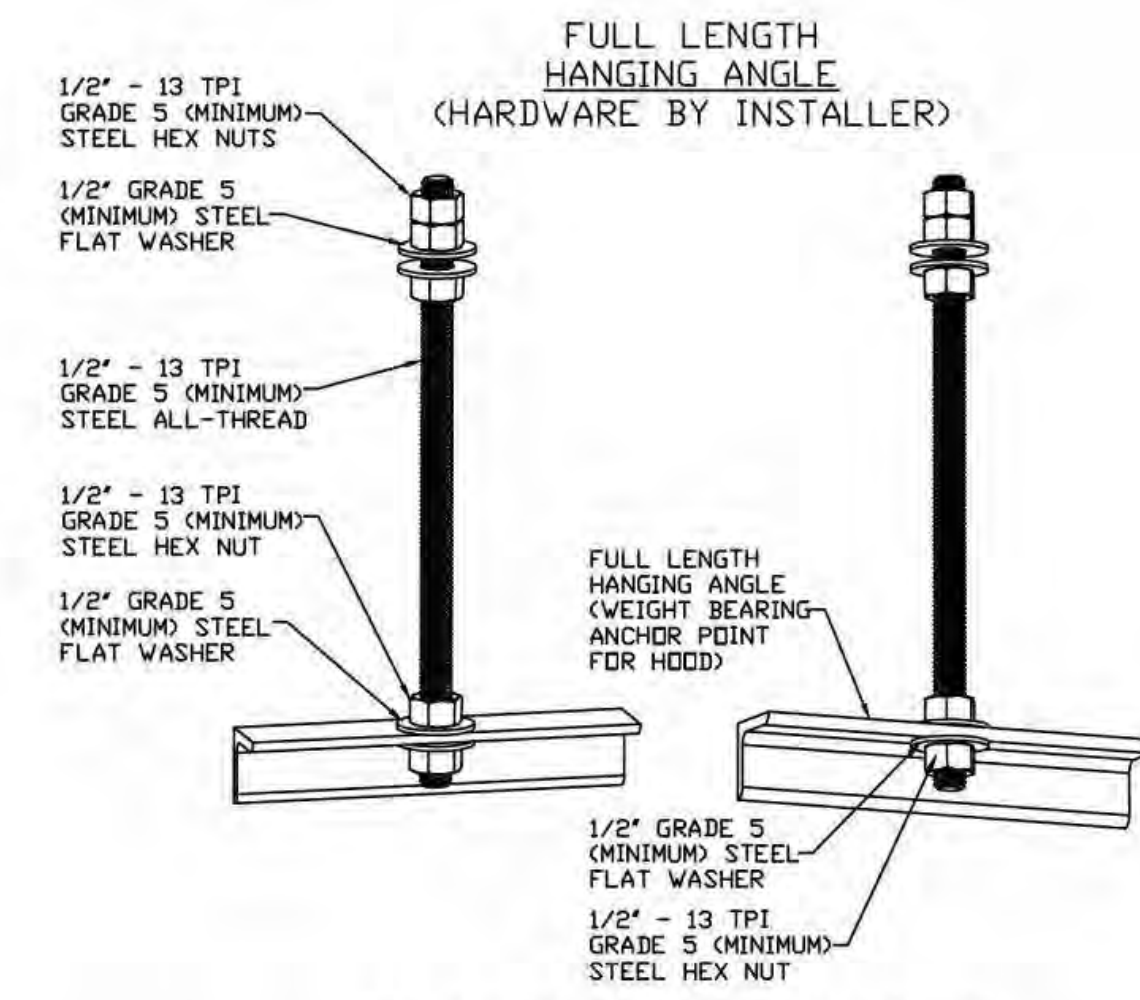
**\*\*\* NOTE \*\*\***  
HOOD MANUFACTURER RECOMMENDS NO RETURNS OR 4-WAY DIFFUSERS WITHIN 10 FEET OF HOOD IN ALL DIRECTIONS.

**\*\*\* NOTE \*\*\***  
MAKE-UP AIR SHALL BE DELIVERED INTO SPACE IN MANNER THAT WILL NOT DISRUPT HOODS ABILITY TO CAPTURE AND CONTAIN.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

PROJECT NUMBER: 00-000

**BONCHON & BROWN DONKATSU**

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524

**VFLA**  
VAUGHT FRYE LARSON architects

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1	DESIGN DEVELOPMENT	20 SEPT 2024	
2	PERMIT SET	11 OCT 2024	
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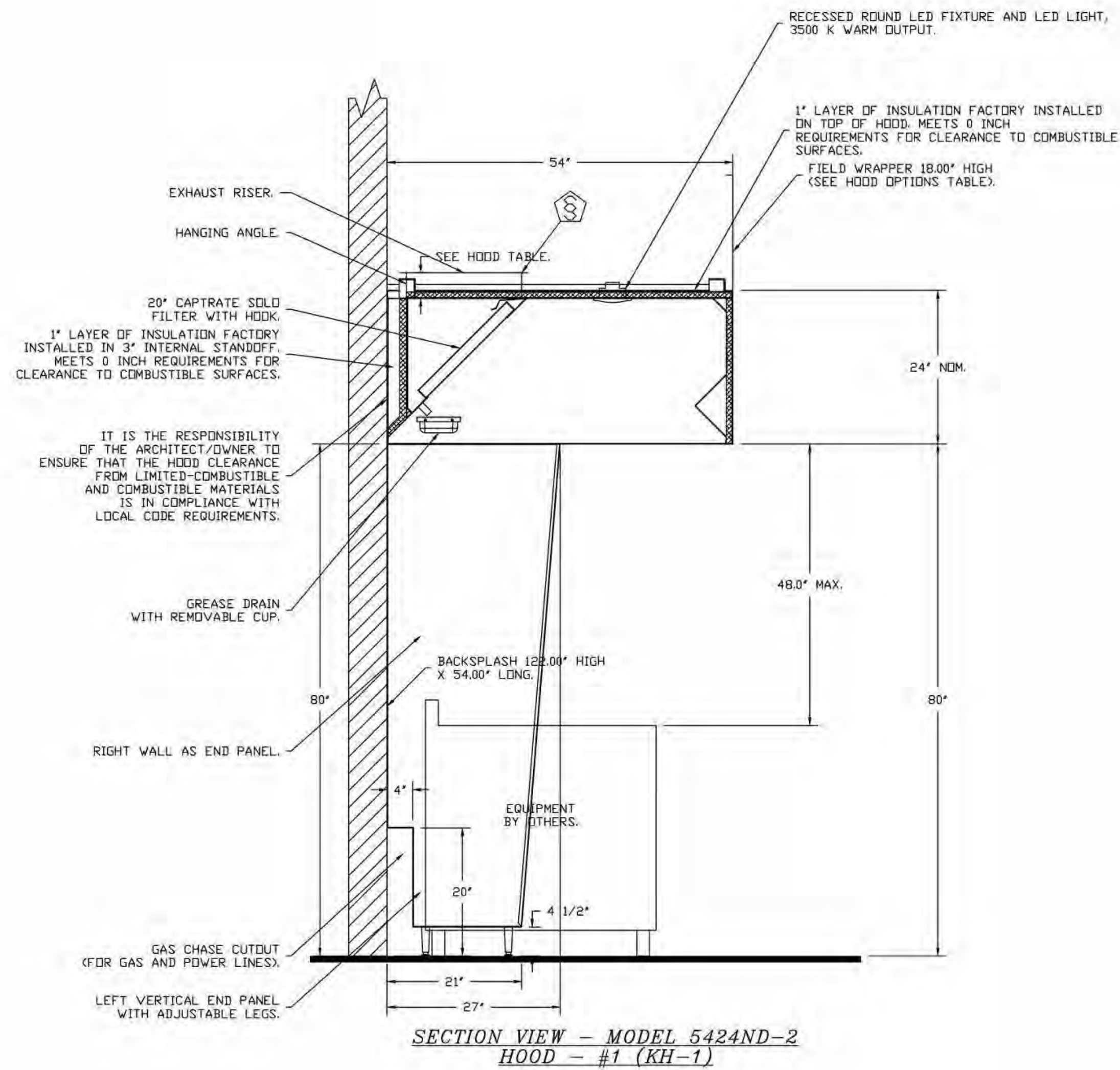
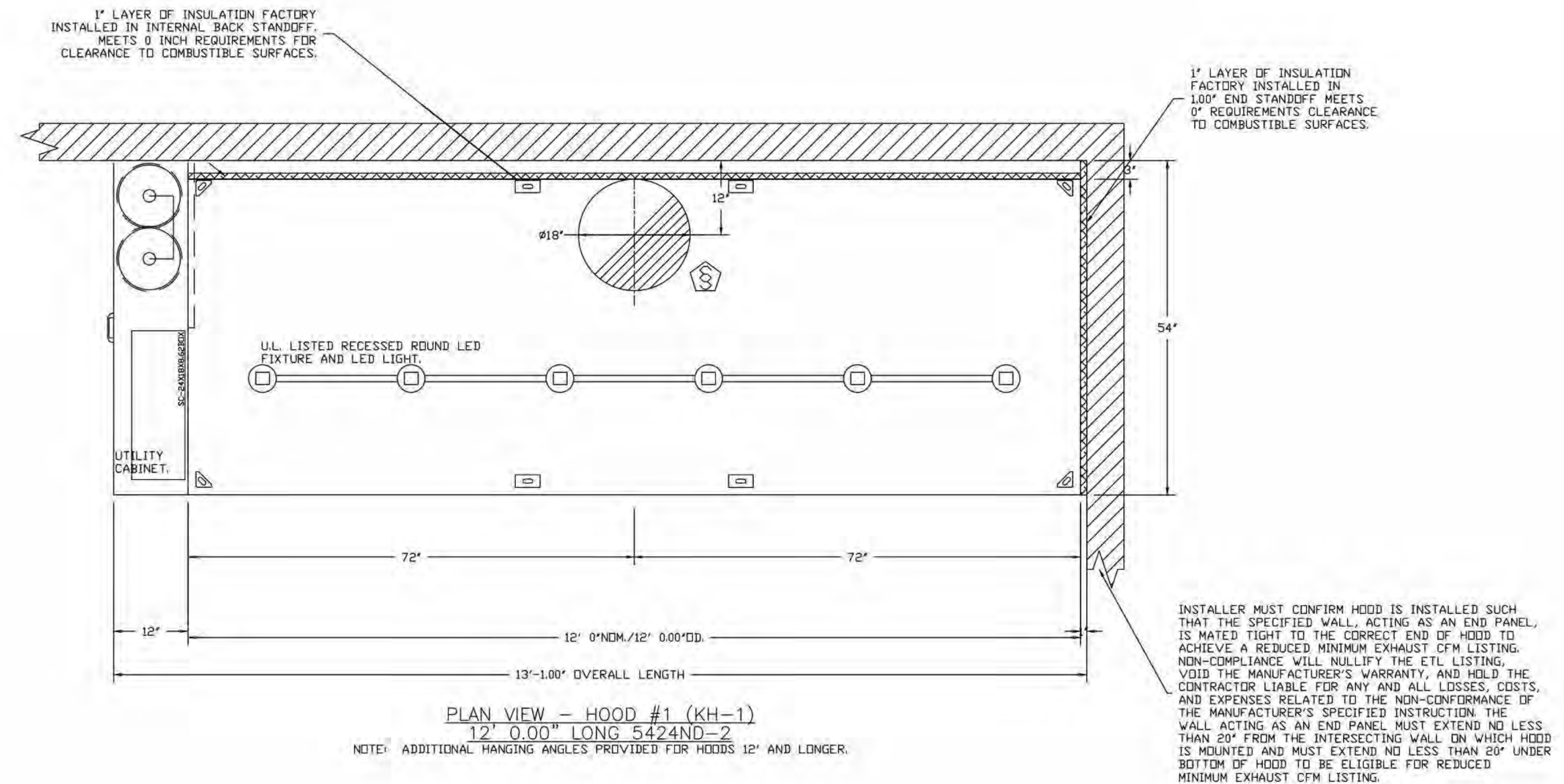
Revisions	No.	Description	Date

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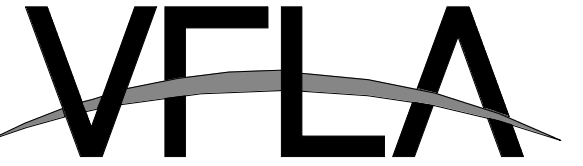
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HVAC SCHEDULES

DRAWING NUMBER:

H8.2

# BONCHON & BROWN DONKATSU

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524



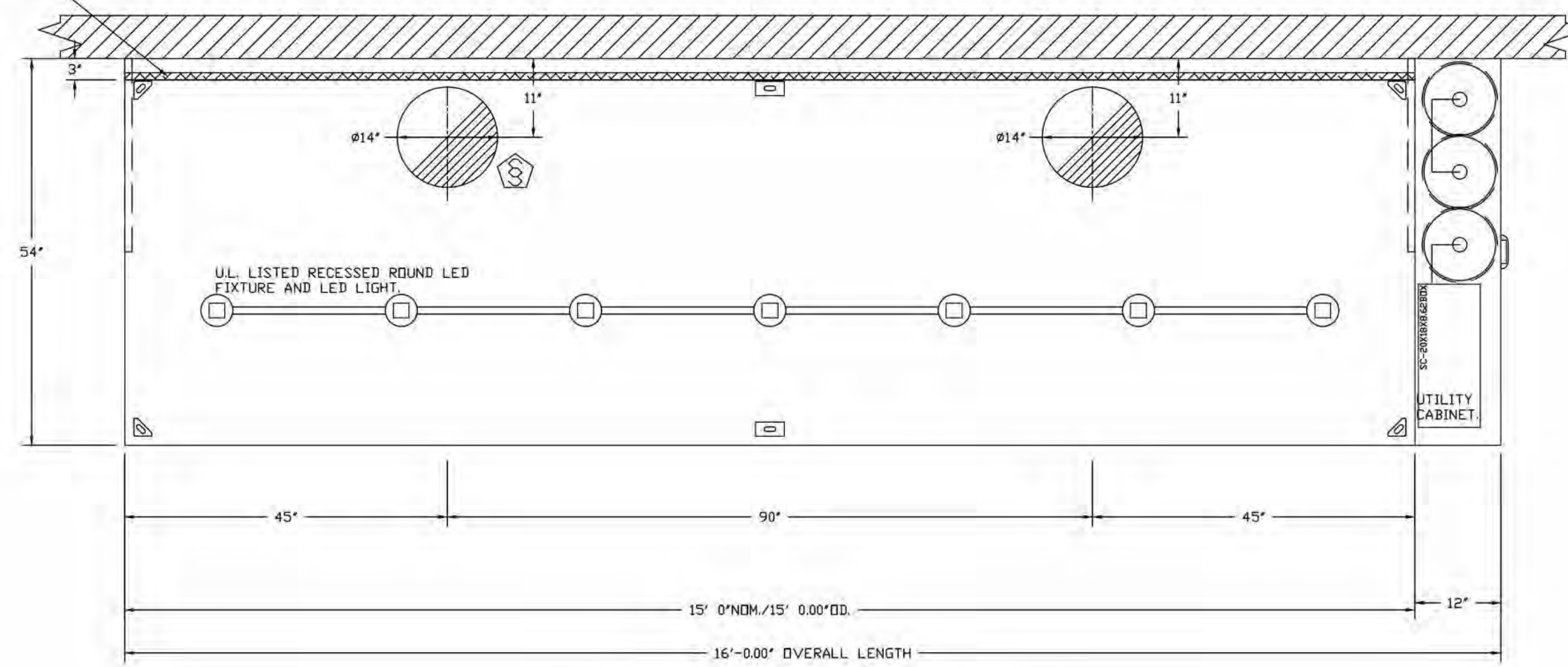
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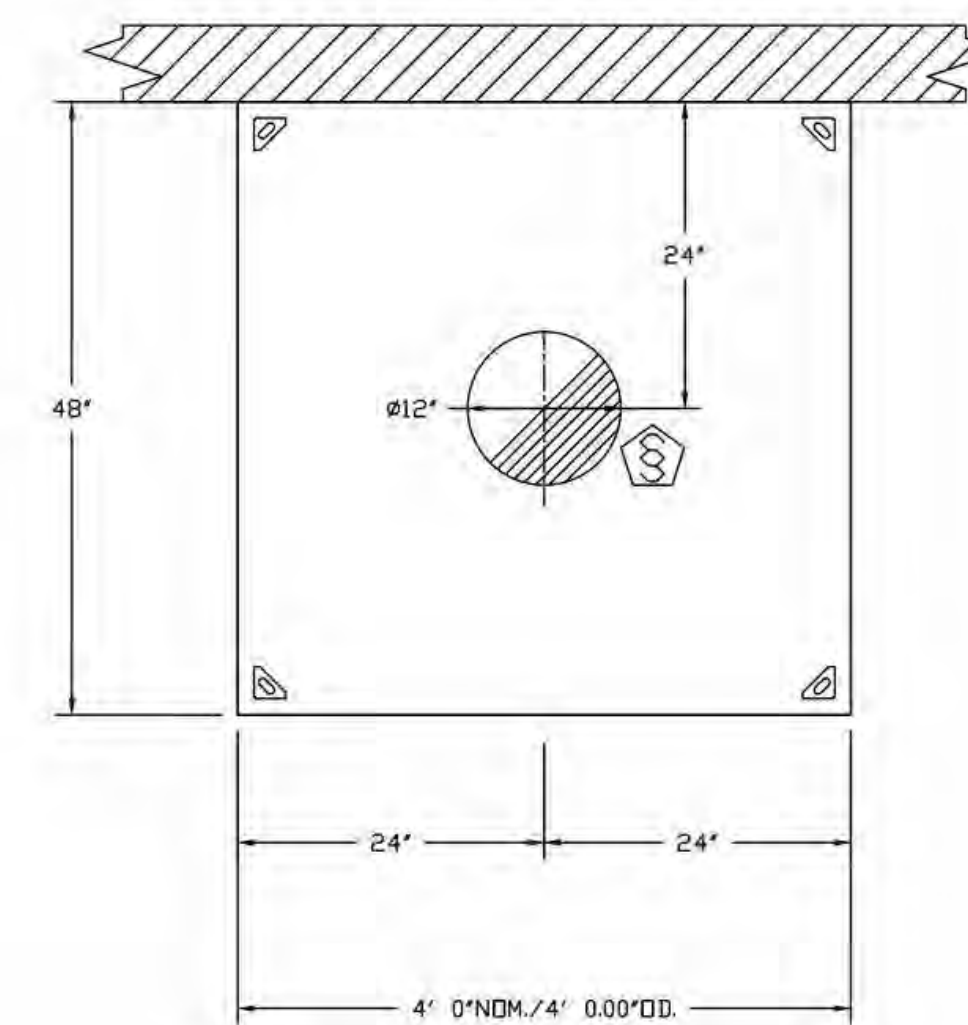
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1" LAYER OF INSULATION FACTORY  
INSTALLED IN INTERNAL BACK STANDOFF,  
MEETS 0 INCH REQUIREMENTS FOR  
CLEARANCE TO COMBUSTIBLE SURFACES.

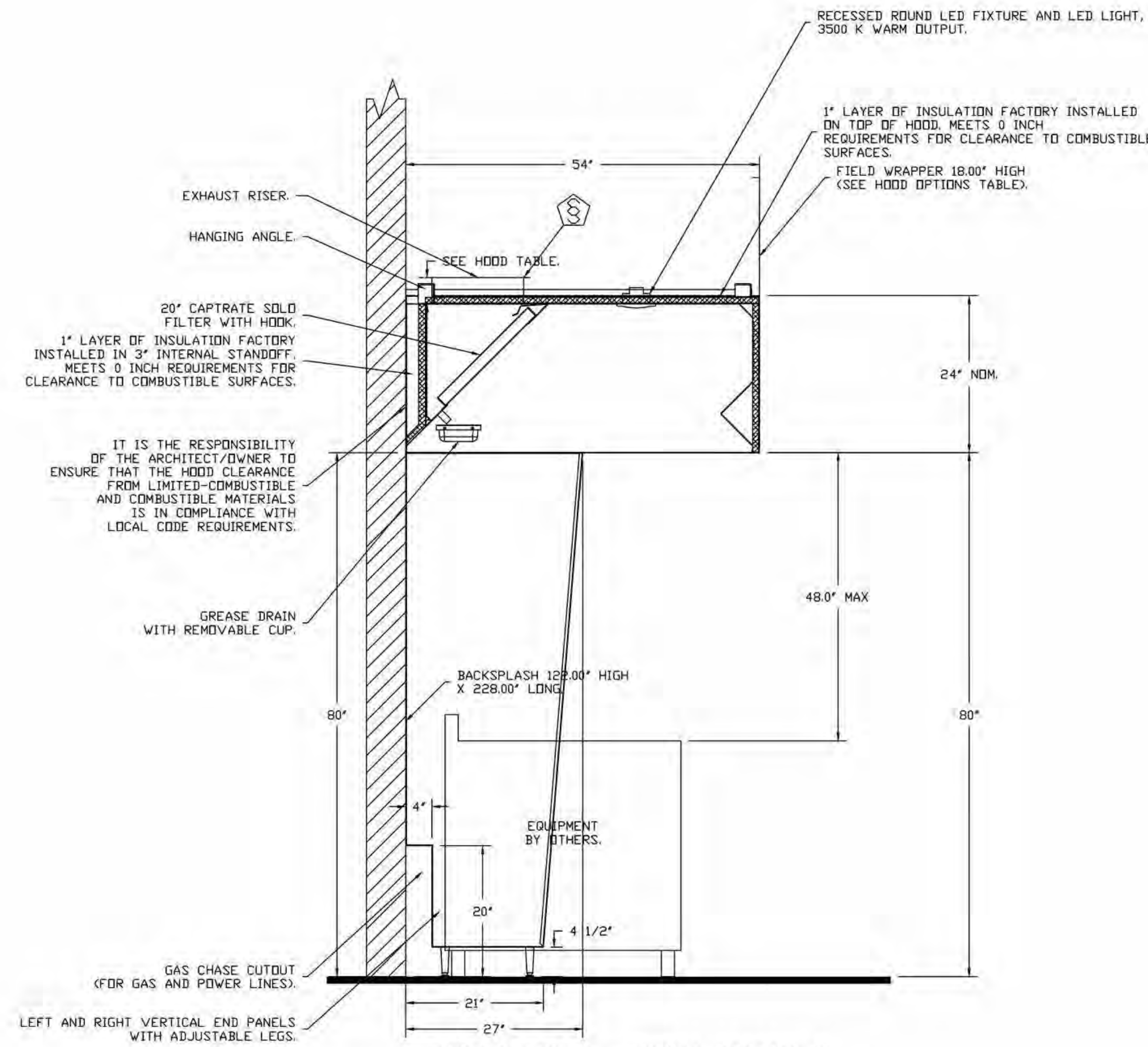


**PLAN VIEW - HOOD #2 (KH-2)**  
15' 0.00" LONG 5424ND-2

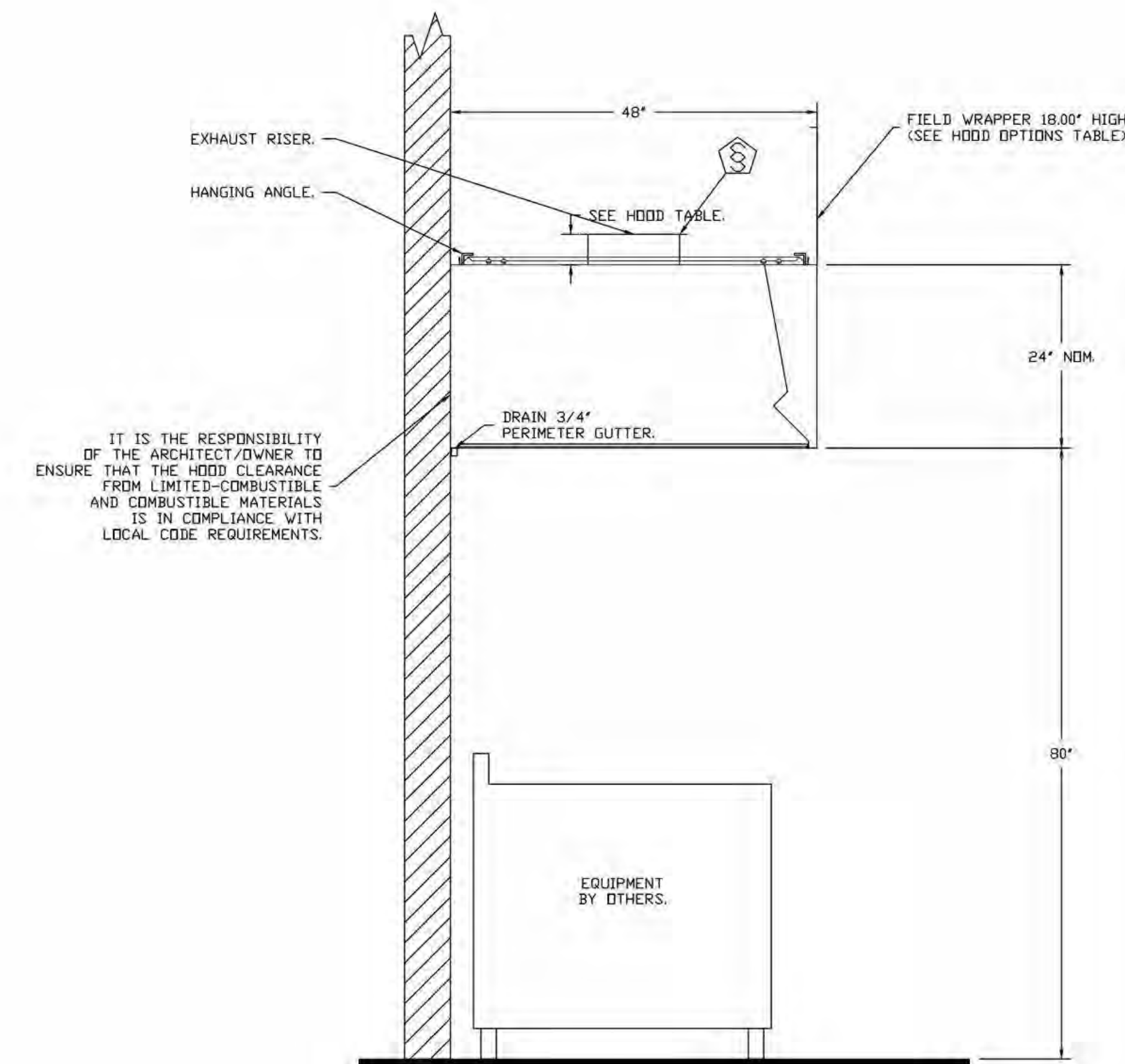
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.



**PLAN VIEW - HOOD #3 (DH-1)**  
4' 0.00" LONG 4824VHB-G-ND



**SECTION VIEW - MODEL 5424ND-2  
HOOD - #2 (KH-2)**



**SECTION VIEW - MODEL 4824VHB-G-ND  
HOOD - #3 (DH-1)**

### PERMIT SET

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### HVAC SCHEDULES

DRAWING NUMBER:

# H8.3

FAN UNIT NO	TAG	QTY	FAN INFORMATION			ELECTRICAL INFORMATION												COOLING INFORMATION												REHEAT INFORMATION				GAS HEAT INFORMATION				NOTES					
			DDAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOPC	OUTSIDE AIR				MIXED AIR				LEAVING AIR				CAPACITY		IEER	ISMRE	DISCHARGE		CAPACITY		MOISTURE REMOVAL RATE	GAS TYPE		INPUT BTUS	OUTPUT BTUS	TEMP RISE	REQUIRED INPUT GAS PRESSURE	
																DB	WB	DB	WB	DB	WB	DP	TOTAL	SENS.	DB	WB	DB	WB	DESIRE			MAX	70.0°F	58.4°F	104.3 MBH							260 MBH	90.7 LBS/HR
4	MAU-1	1	CAS-HVAC4-1.700-30-22T	CAPTIVEAIRE	30MF-4-RTU	0	6075	6075	4484	1.000	10.00	3	208	104.3A	125A	72.3°F	64.6°F	72.3°F	64.6°F	51.7°F	51.7°F	51.8°F	212.3 MBH	113.3 MBH	18.1	5.1	70.0°F	58.4°F	104.3 MBH	260 MBH	90.7 LBS/HR	NATURAL	552847	447806	72°F	7 IN. W.C.	14 IN. W.C.	L,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16					

**FAN OPTIONS**

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
2	KEF-2	1	UPBLAST FAN WHEEL ACCESS PORT
		1	2 YEAR PARTS WARRANTY
3	KEF-3	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
4	MAU-1	1	UPBLAST FAN WHEEL ACCESS PORT
		1	ECH WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION
5	DEF-1	1	2 YEAR PARTS WARRANTY
		1	GREASE BOX

**FAN ACCESSORIES**

FAN UNIT NO	TAG	EXHAUST				SUPPLY				
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT		
1	KEF-1	YES								
2	KEF-2	YES								
3	KEF-3	YES								
5	DEF-1		YES							

**CURB ASSEMBLIES**

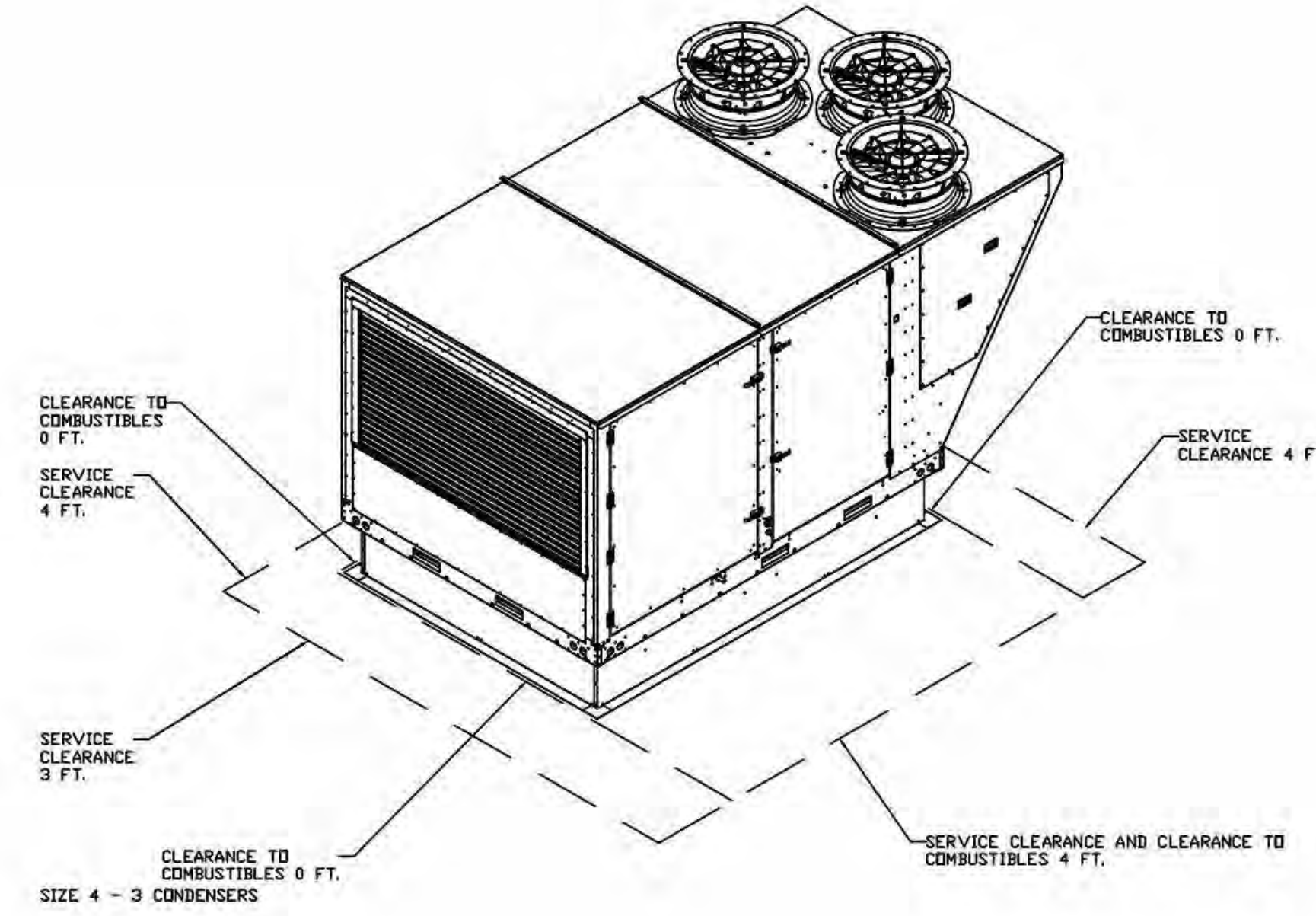
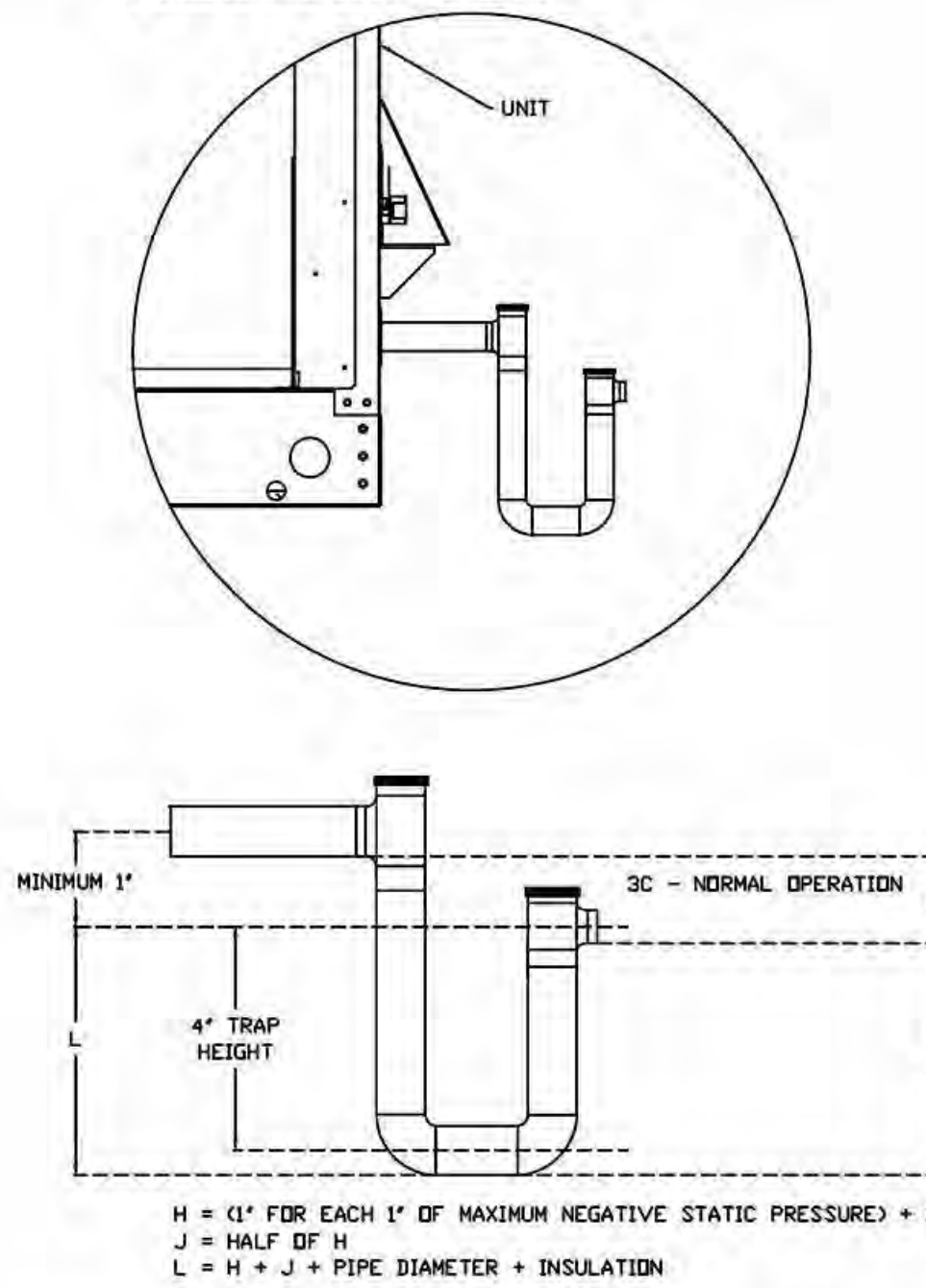
NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	34 LBS	CURB	26.500"W X 26.500"L X 26.000"H VENTED HINGED.
2	# 2	KEF-2	34 LBS	CURB	26.500"W X 26.500"L X 26.000"H VENTED HINGED.
3	# 3	KEF-3	34 LBS	CURB	26.500"W X 26.500"L X 26.000"H VENTED HINGED.
4	# 4	MAU-1	264 LBS	CURB	80.000"W X 111.000"L X 20.000"H INSULATED 16 GAUGE.
5	# 5	DEF-1	27 LBS	CURB	19.500"W X 19.500"L X 20.000"H VENTED.

HMI SCHEDULE					
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS	
FAN #4	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55	
FAN #4	HMI #2 - SPACE		AVERAGED	56	

**EXHAUST FAN INFORMATION - JOB#7086703**

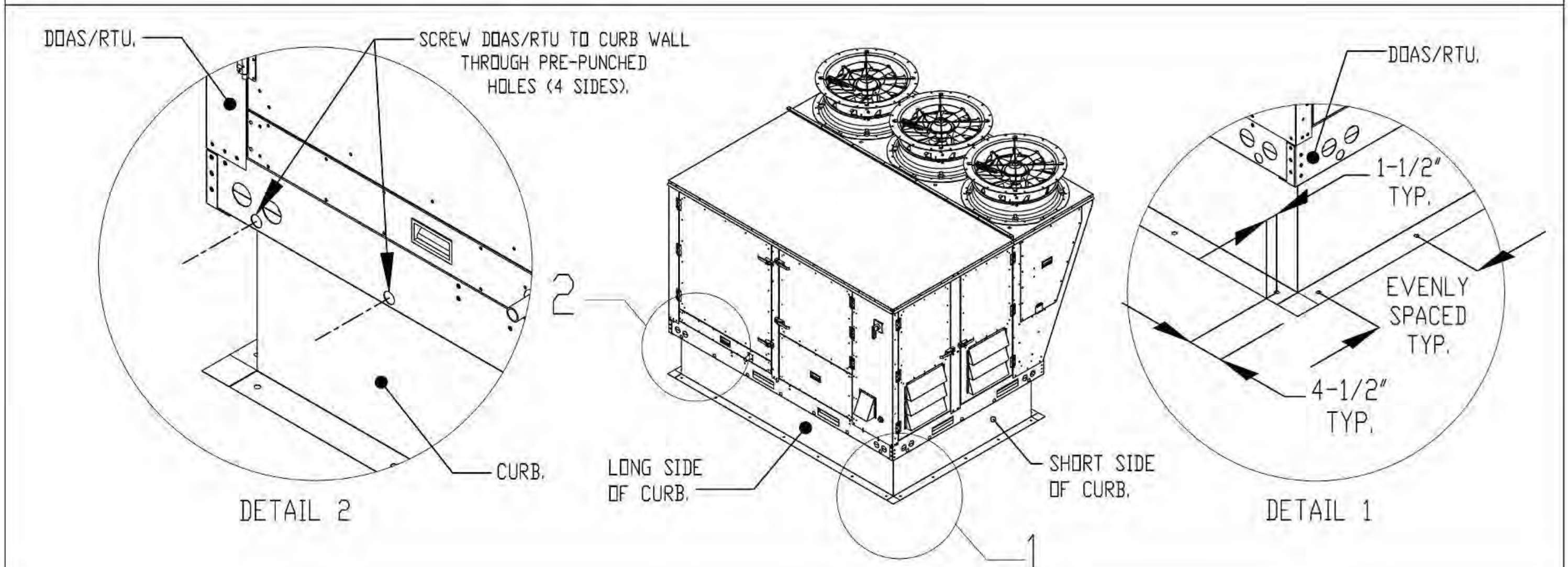
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	KEF-1	1	DU180HFA	CAPTIVEAIRE	3000	1.750	1461	DDP, PREMIUM	3.000	1.8160	3	208	9.5	693 FPM	186	24.5
2	KEF-2	1	DU180HFA	CAPTIVEAIRE	1875	1.500	1267	TEAD-ECH	2.000	1.0530	3	208	8.5	433 FPM	144	18
3	KEF-3	1	DU180HFA	CAPTIVEAIRE	1875	1.500	1267	TEAD-ECH	2.000	1.0530	3	208	8.5	433 FPM	144	18
5	DEF-1	1	DU33HFA	CAPTIVEAIRE	800	0.350	1533	TEAD-ECH	0.333	0.1860	1	115	4.3	396 FPM	68	16.2

**RTU CONDENSATE DRAIN TRAP DETAIL**



**TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS**

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.
2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



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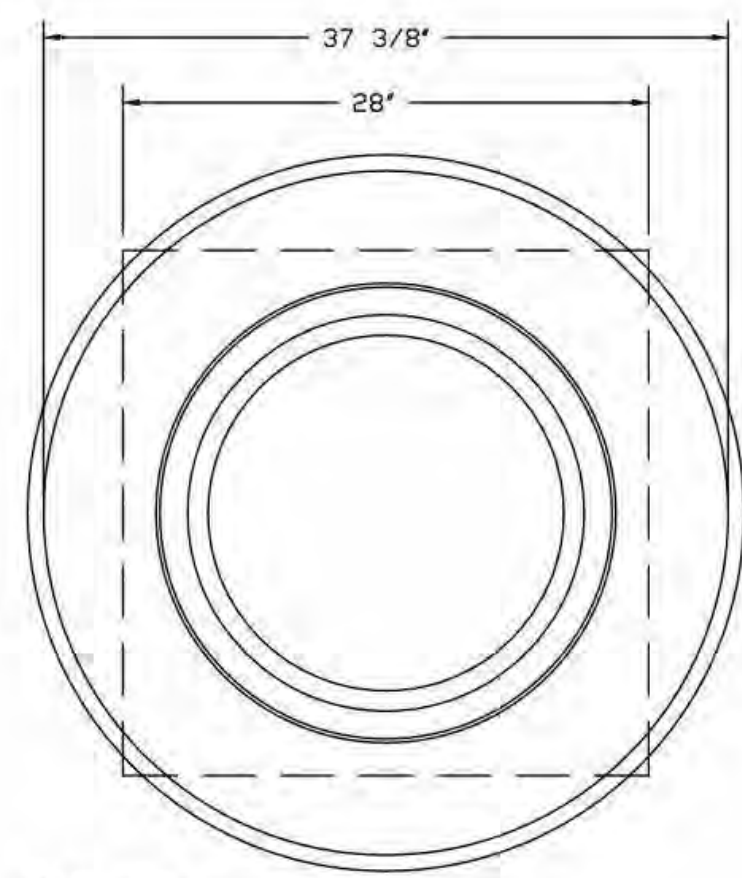
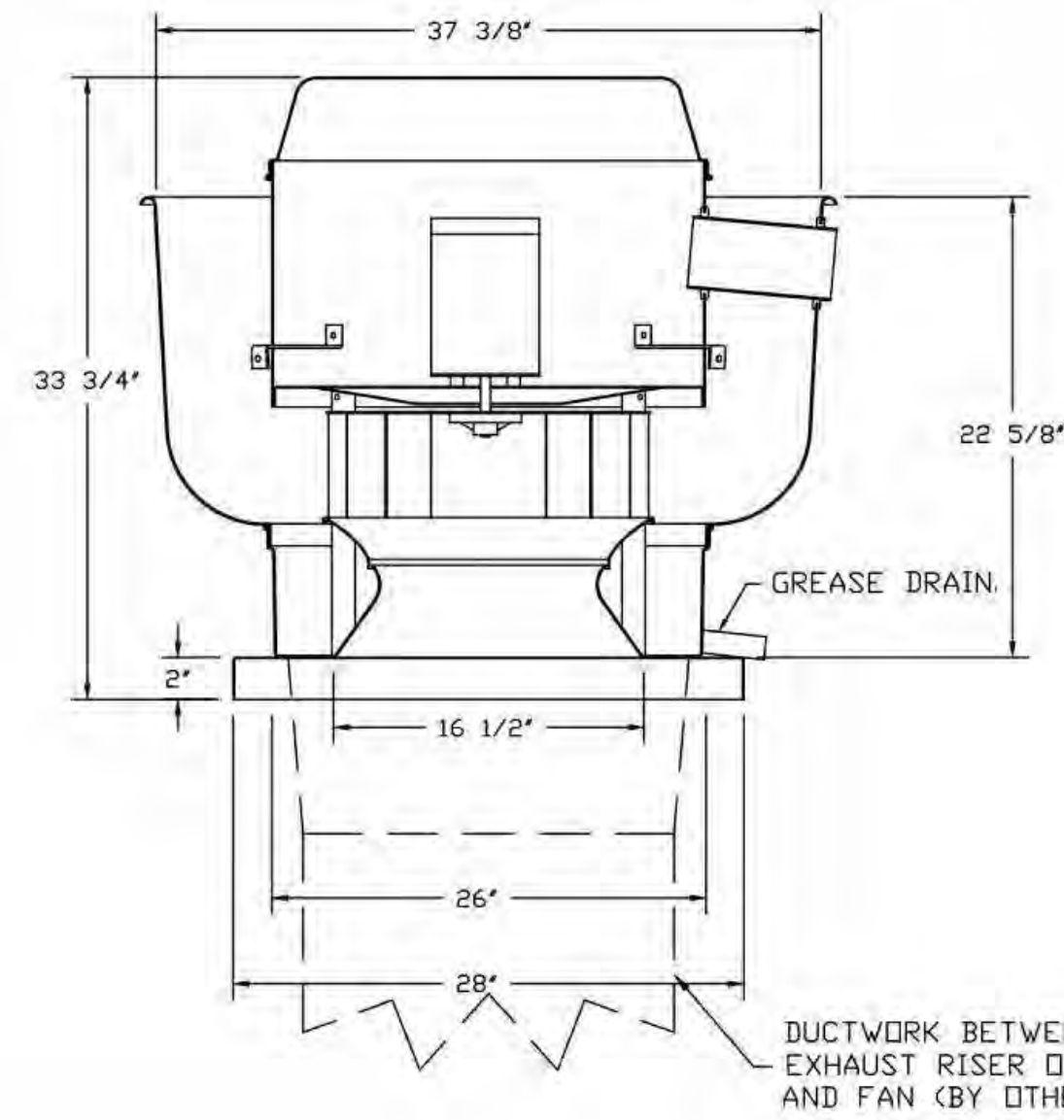


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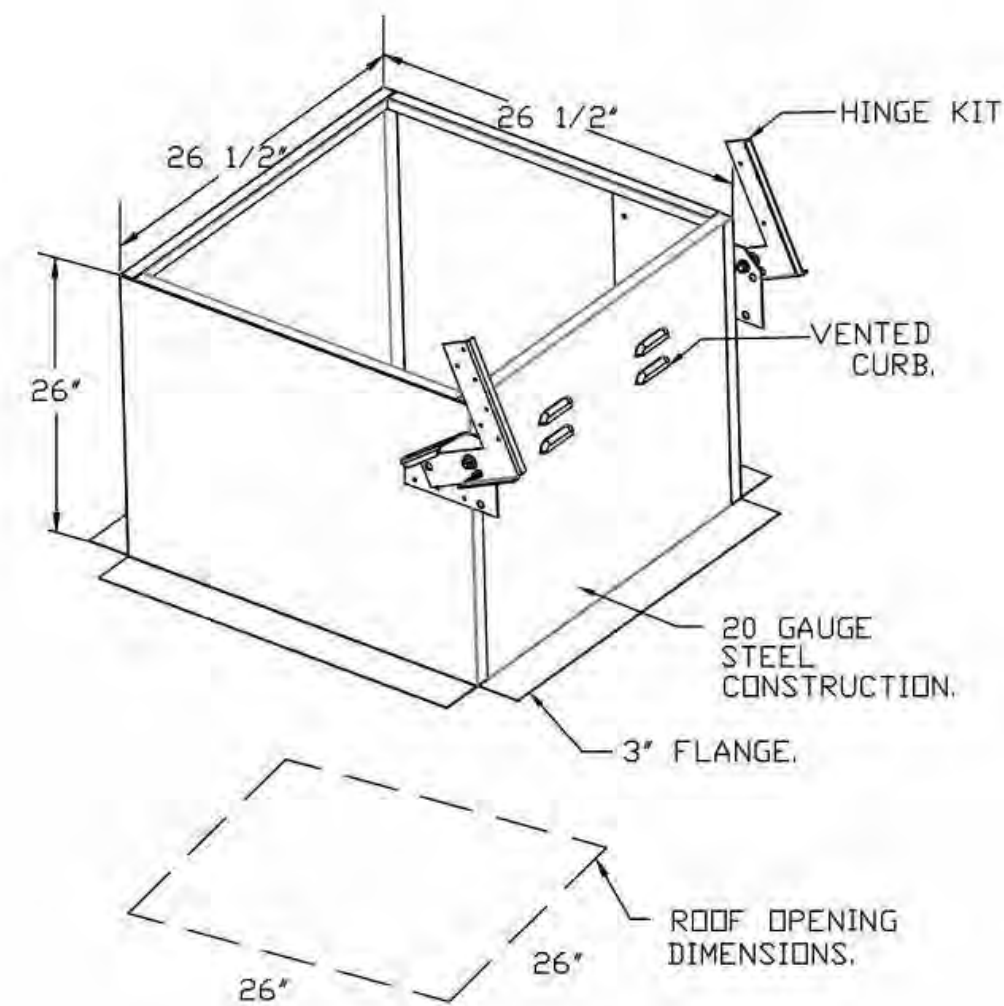
**HVAC SCHEDULES**

DRAWING NUMBER:  
**H8.4**

FAN #1 DU180HFA - EXHAUST FAN (KEF-1)



TOP VIEW



**FEATURES:**

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

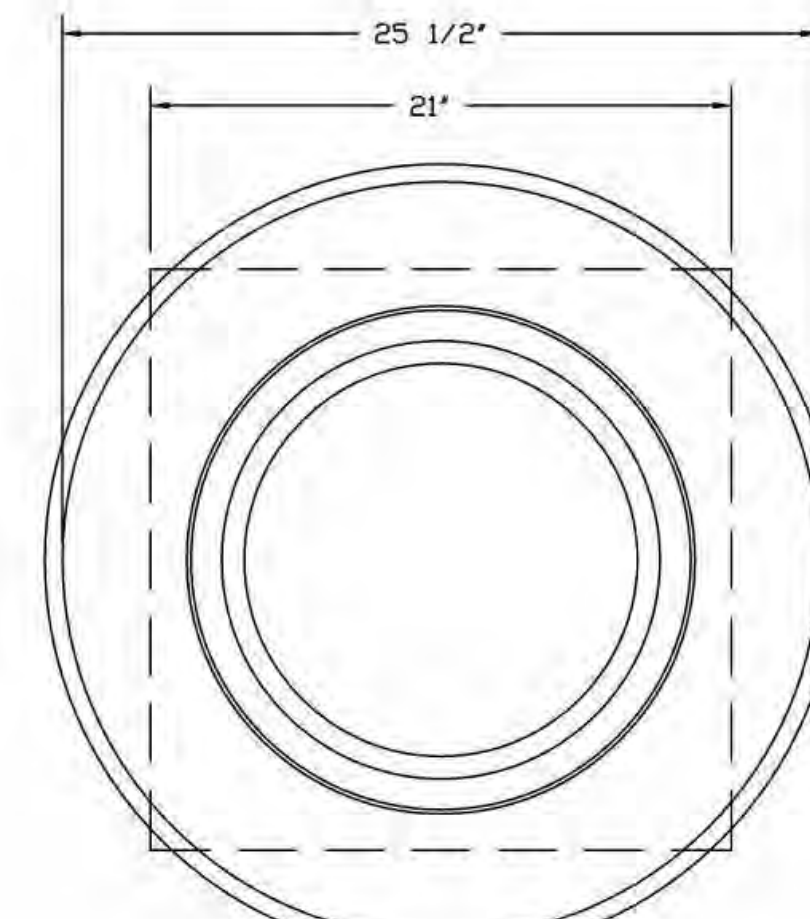
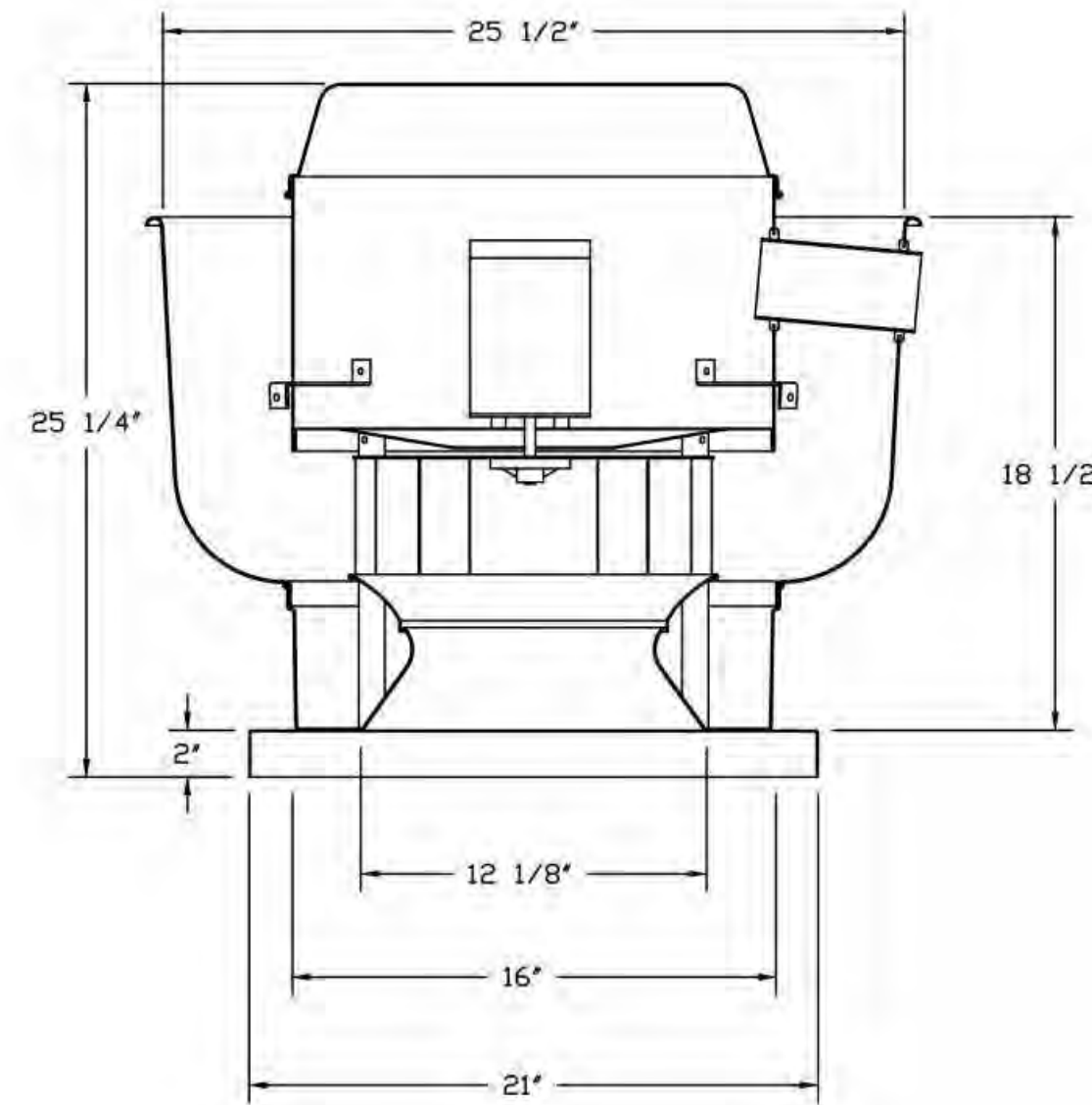
**NORMAL TEMPERATURE TEST**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

**ABNORMAL FLARE-UP TEST**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

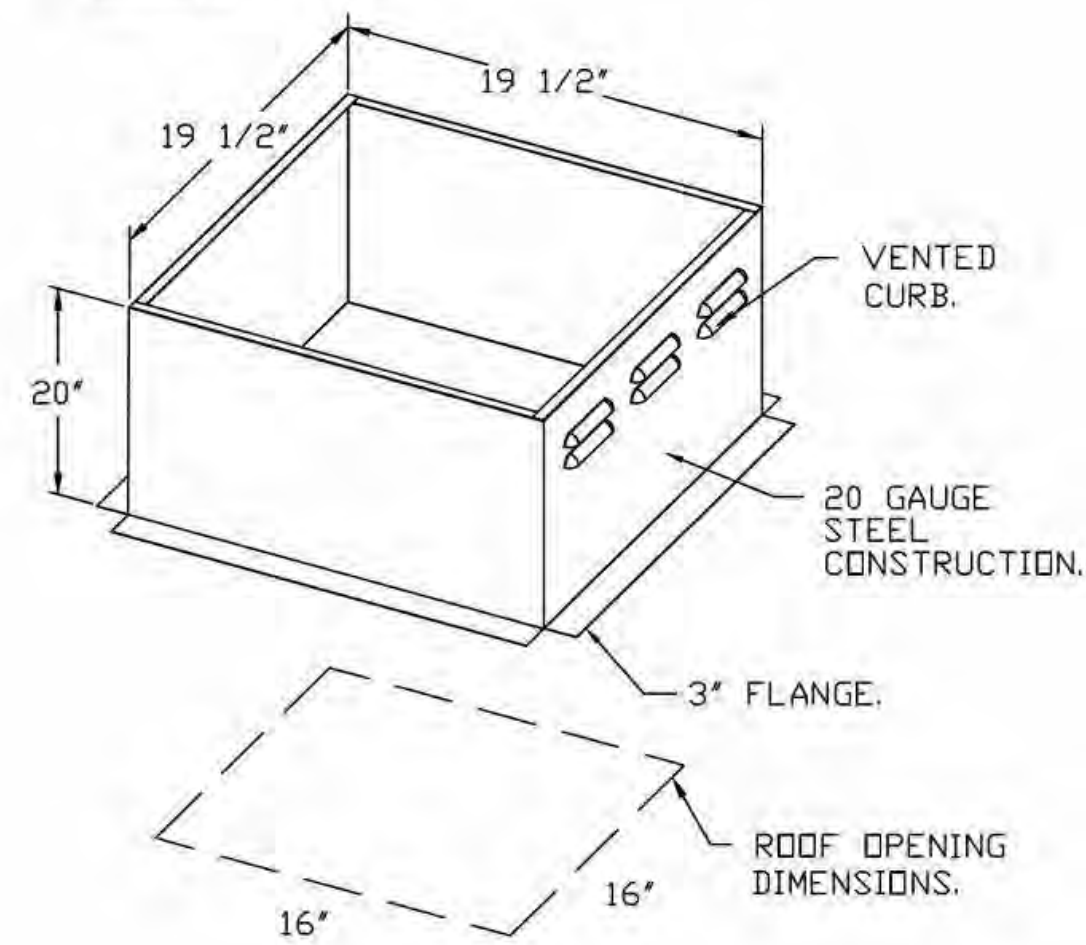
**OPTIONS**

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU/DR180HFA
- INSTALLED AT PLANT - FDR GREASE DUCTS.
- UPBLAST FAN WHEEL ACCESS PORT.
- 2 YEAR PARTS WARRANTY.

FAN #5 DU33HFA - EXHAUST FAN (DEF-1)



TOP VIEW



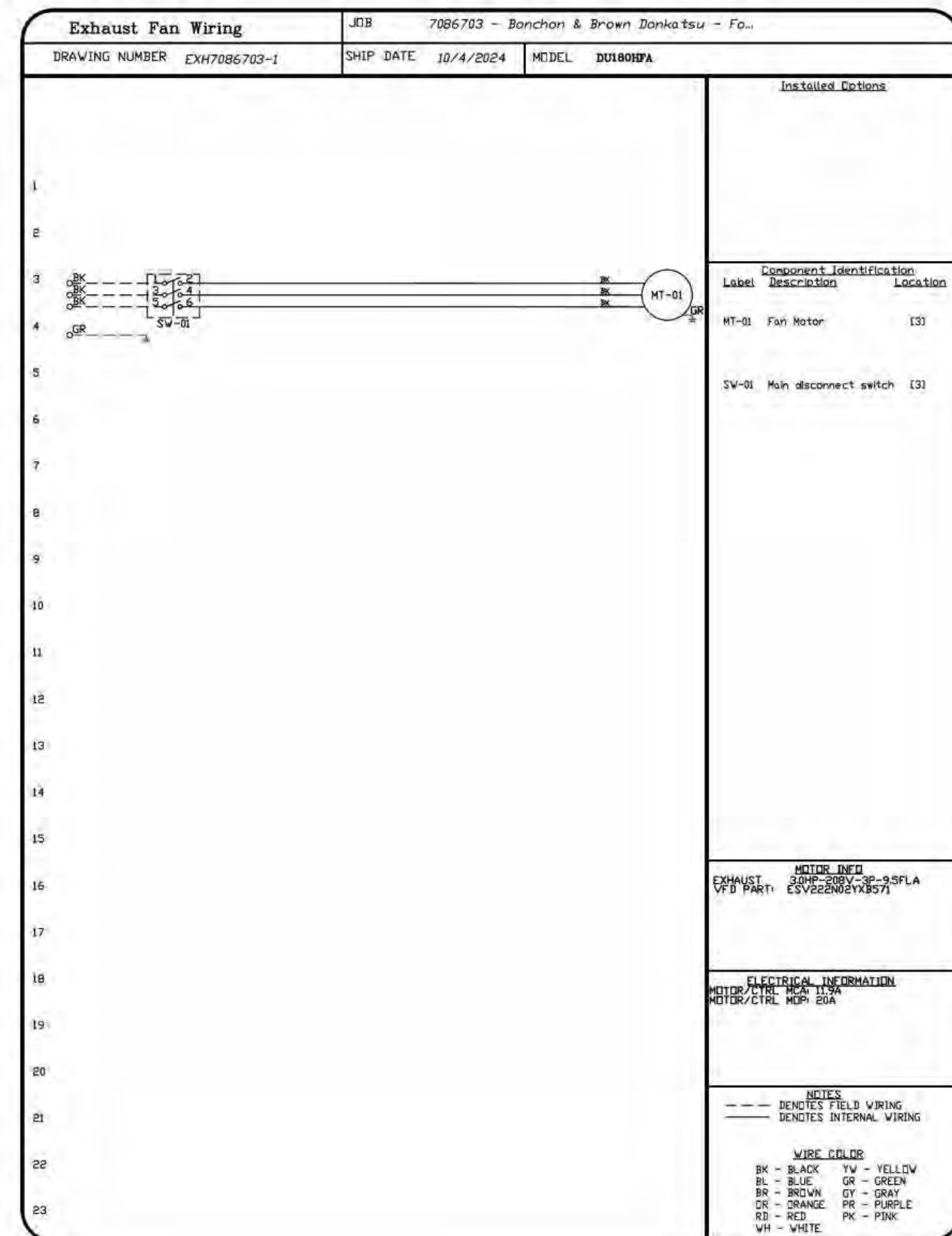
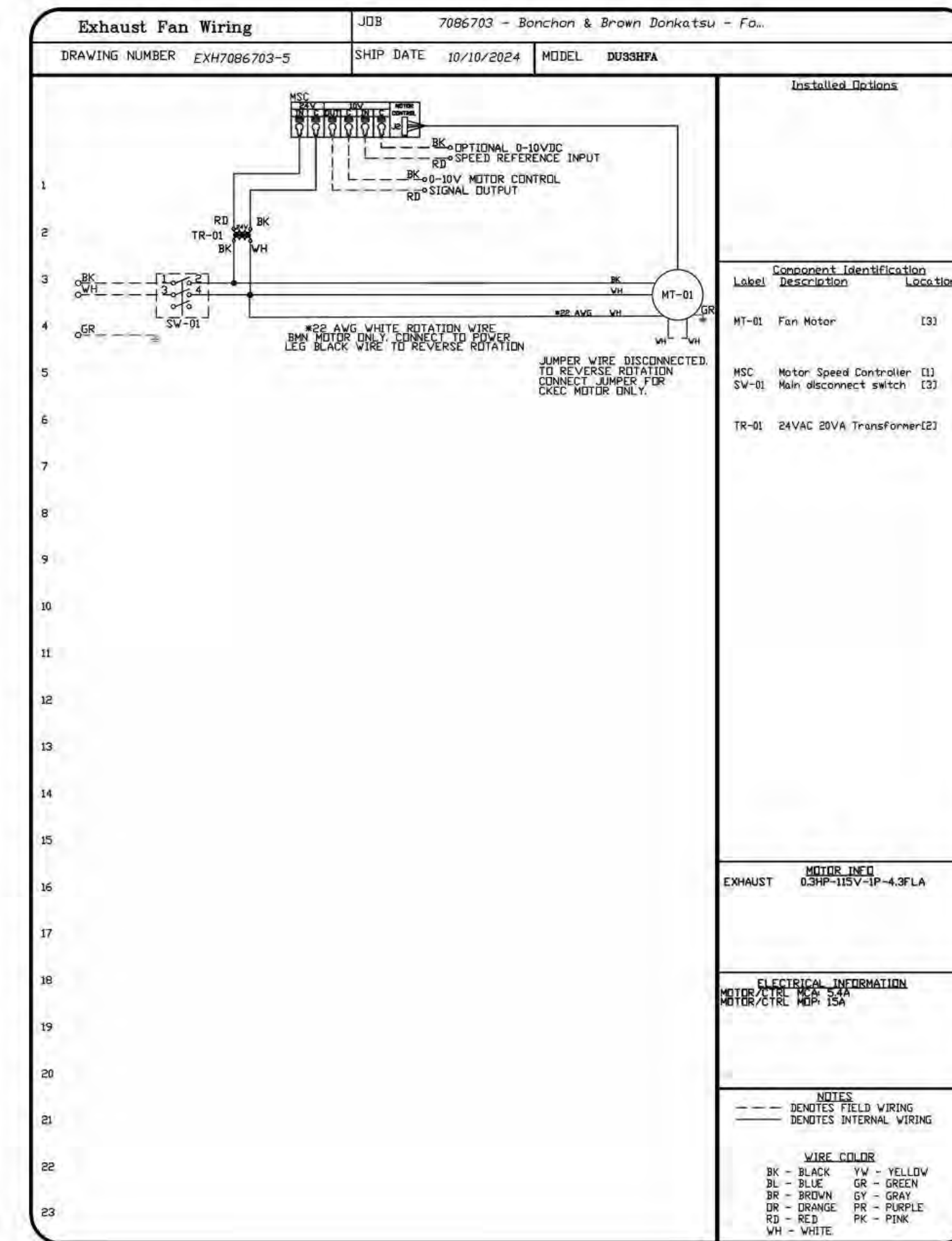
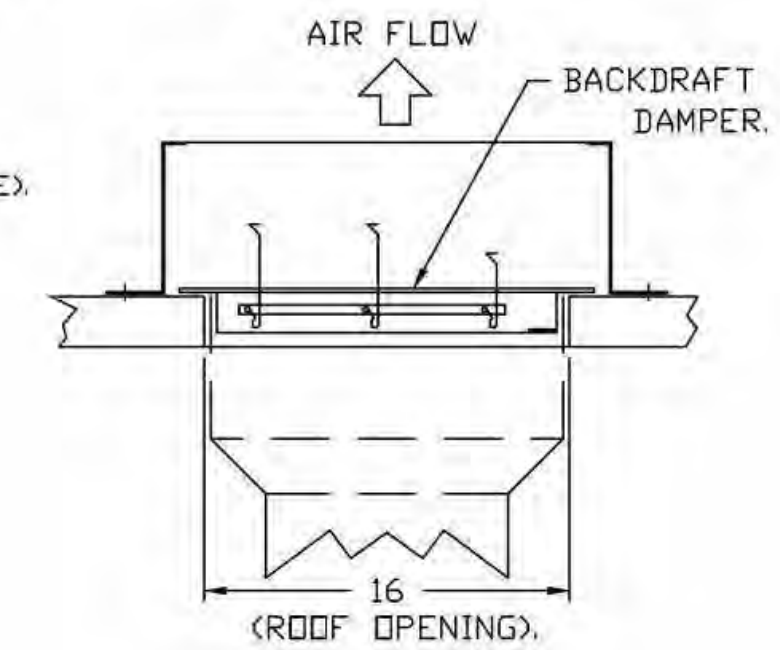
**FEATURES:**

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- NEMA 3R SAFETY DISCONNECT SWITCH.

**OPTIONS**

- 1 15-BDD DAMPER.
- SCR-11 BIRD SCREEN.
- ECM WIRING PACKAGE - EXHAUST - MANUAL DR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

**BACKDRAFT DAMPER INSTALLATION**



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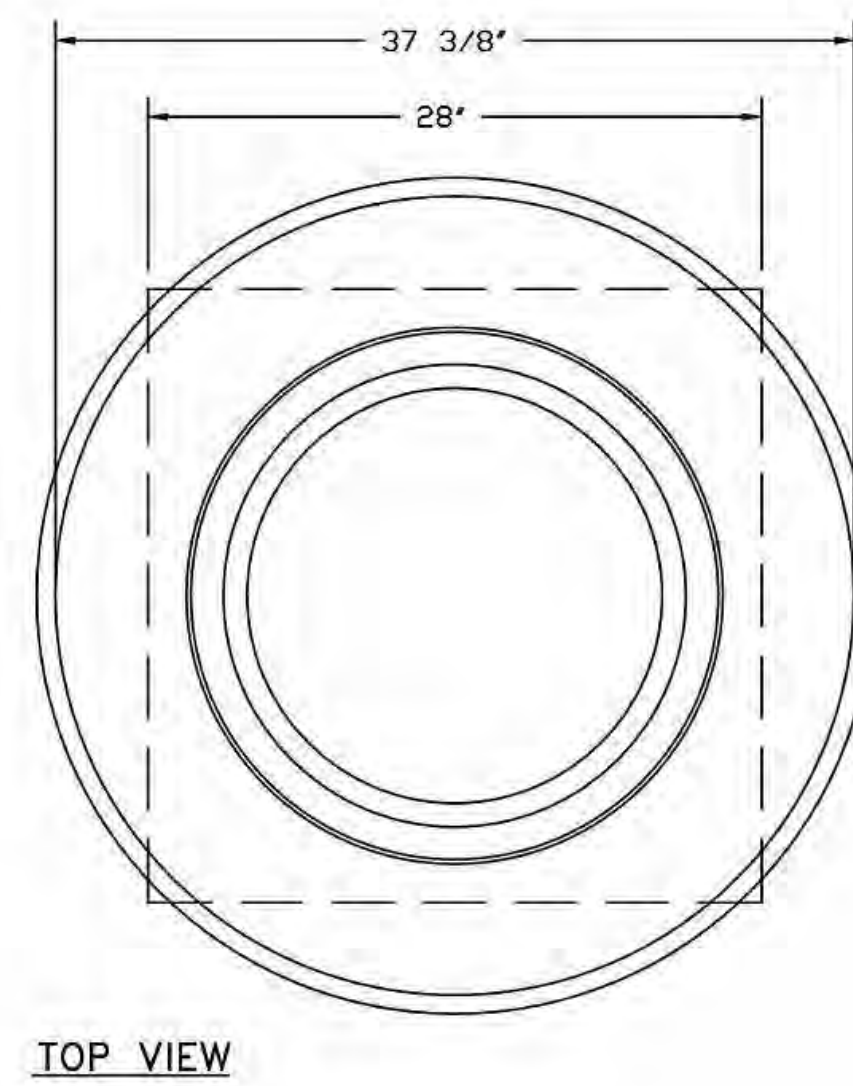
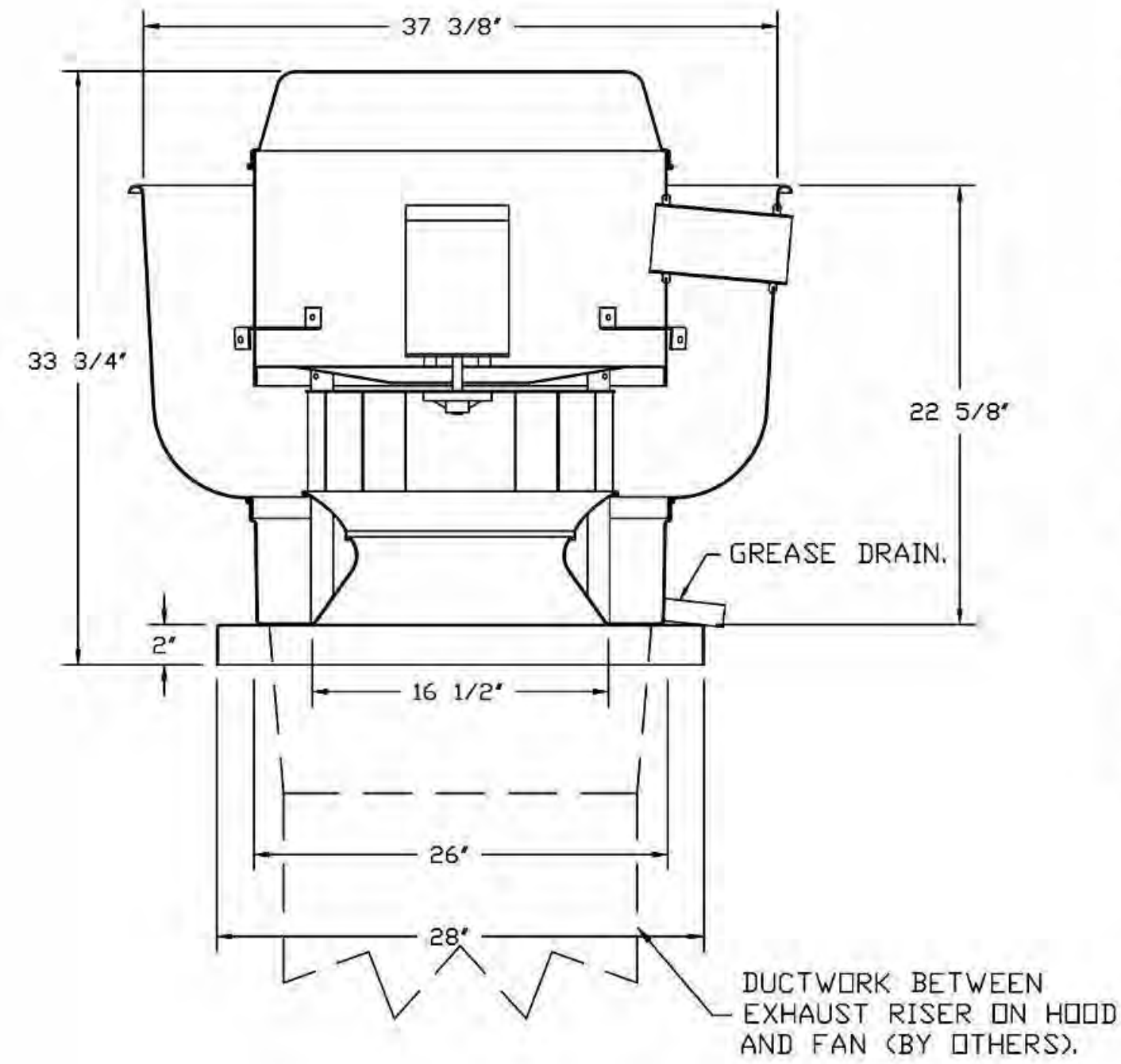


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TOP VIEW

**FEATURES:**

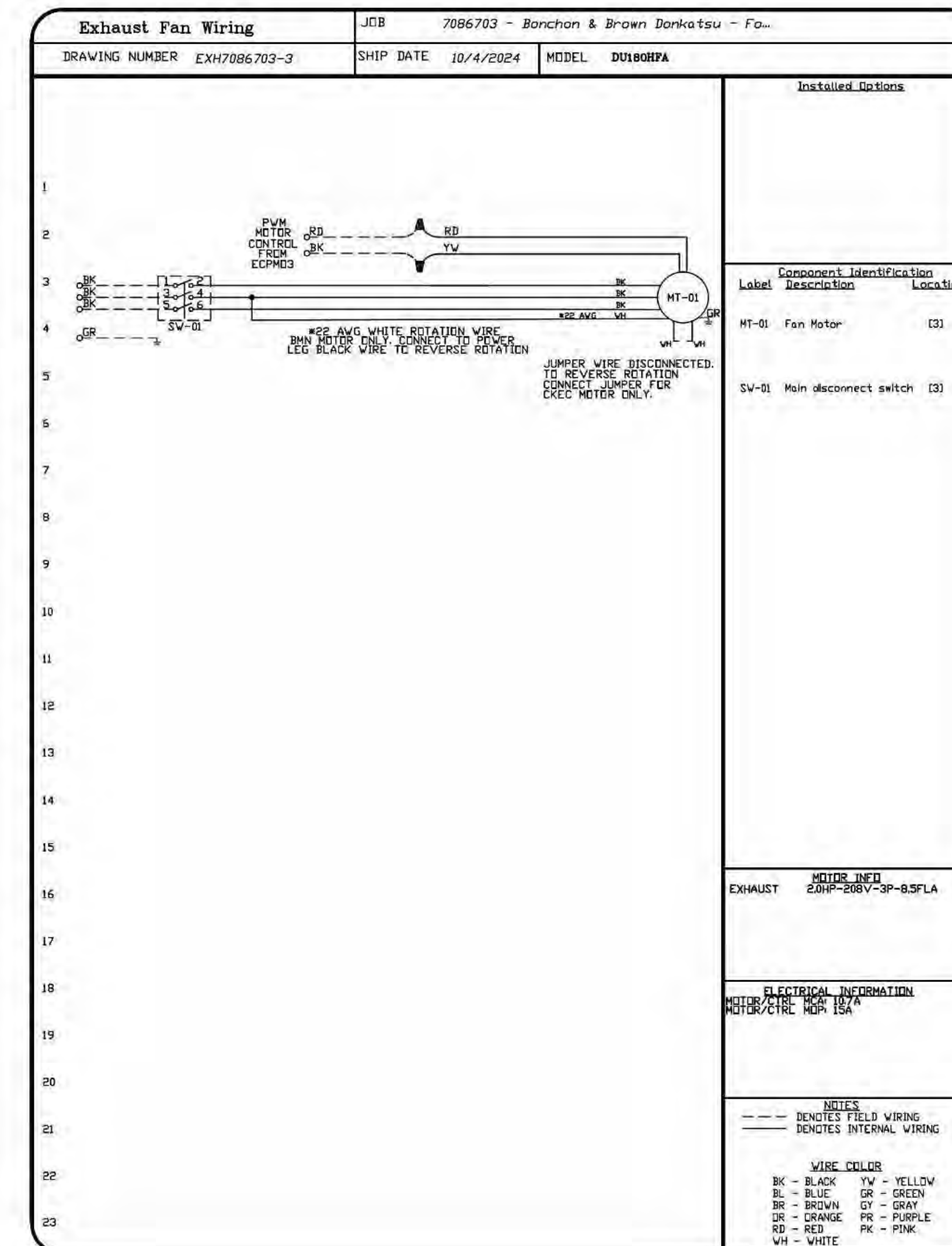
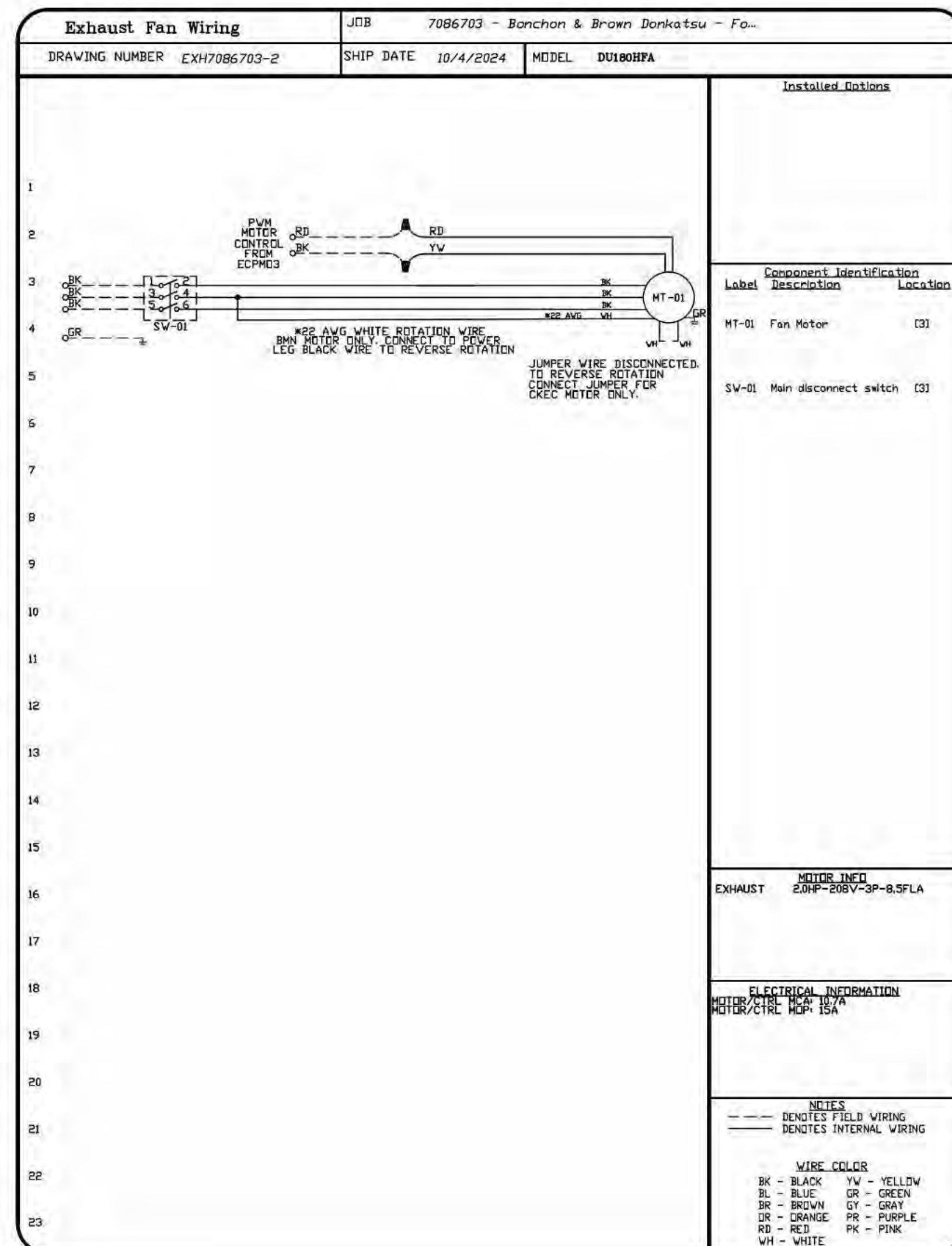
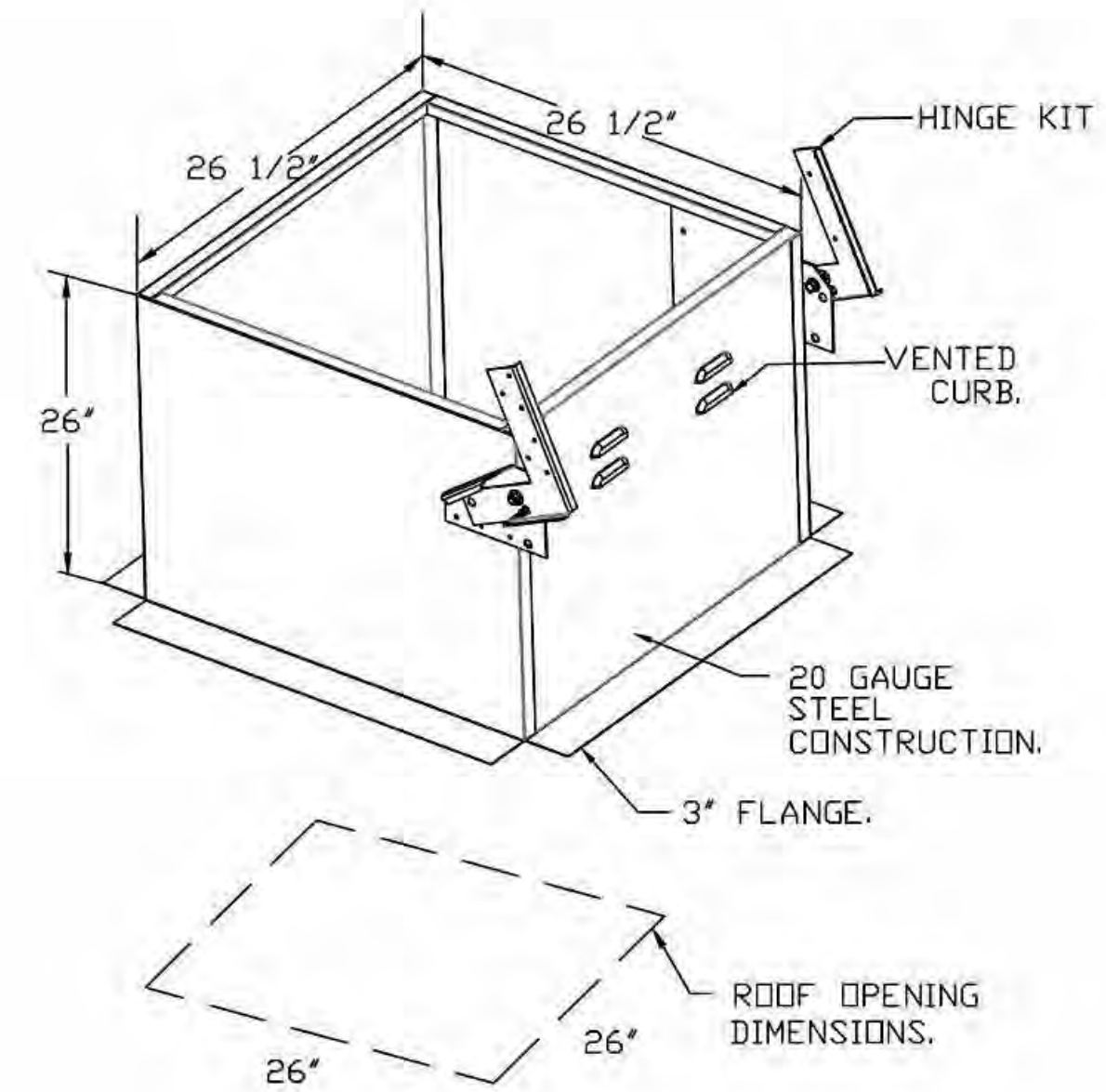
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTRL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

**NORMAL TEMPERATURE TEST**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

**ABNORMAL FLARE-UP TEST**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

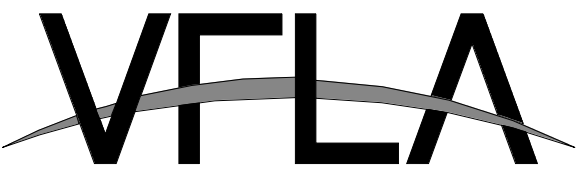
**OPTIONS**

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU/DR180HFA
- INSTALLED AT PLANT - FOR GREASE DUCTS.
- UPBLAST FAN WHEEL ACCESS PORT.
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



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**HVAC SCHEDULES**

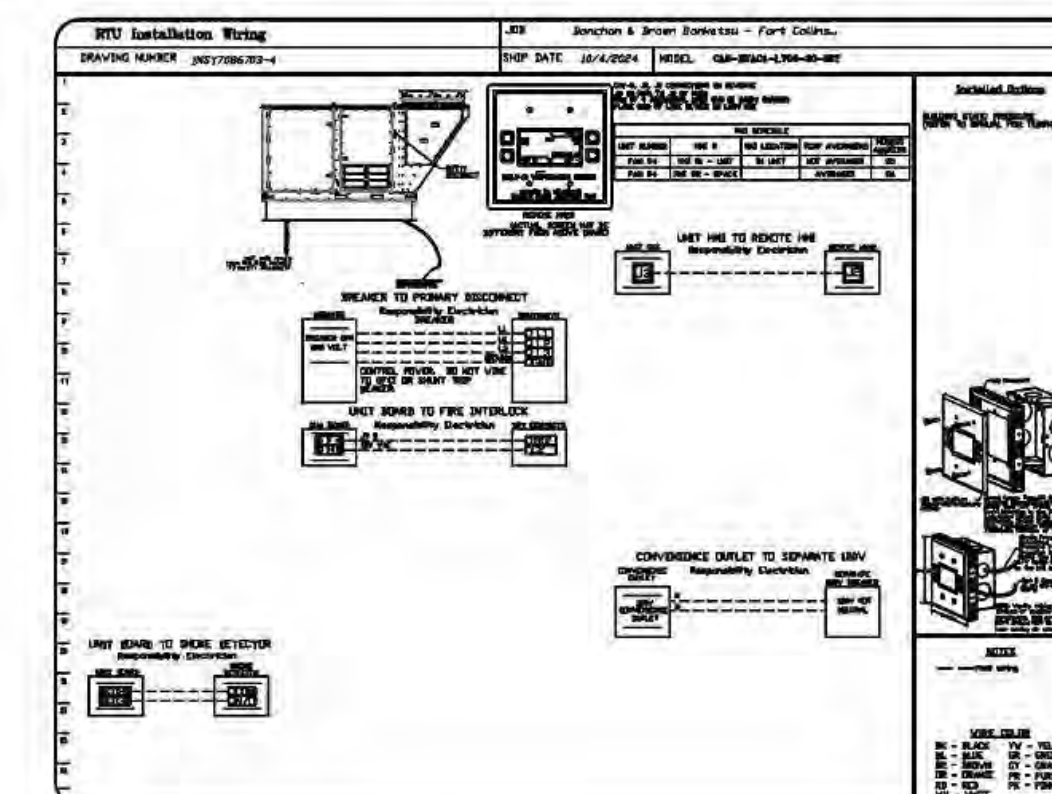
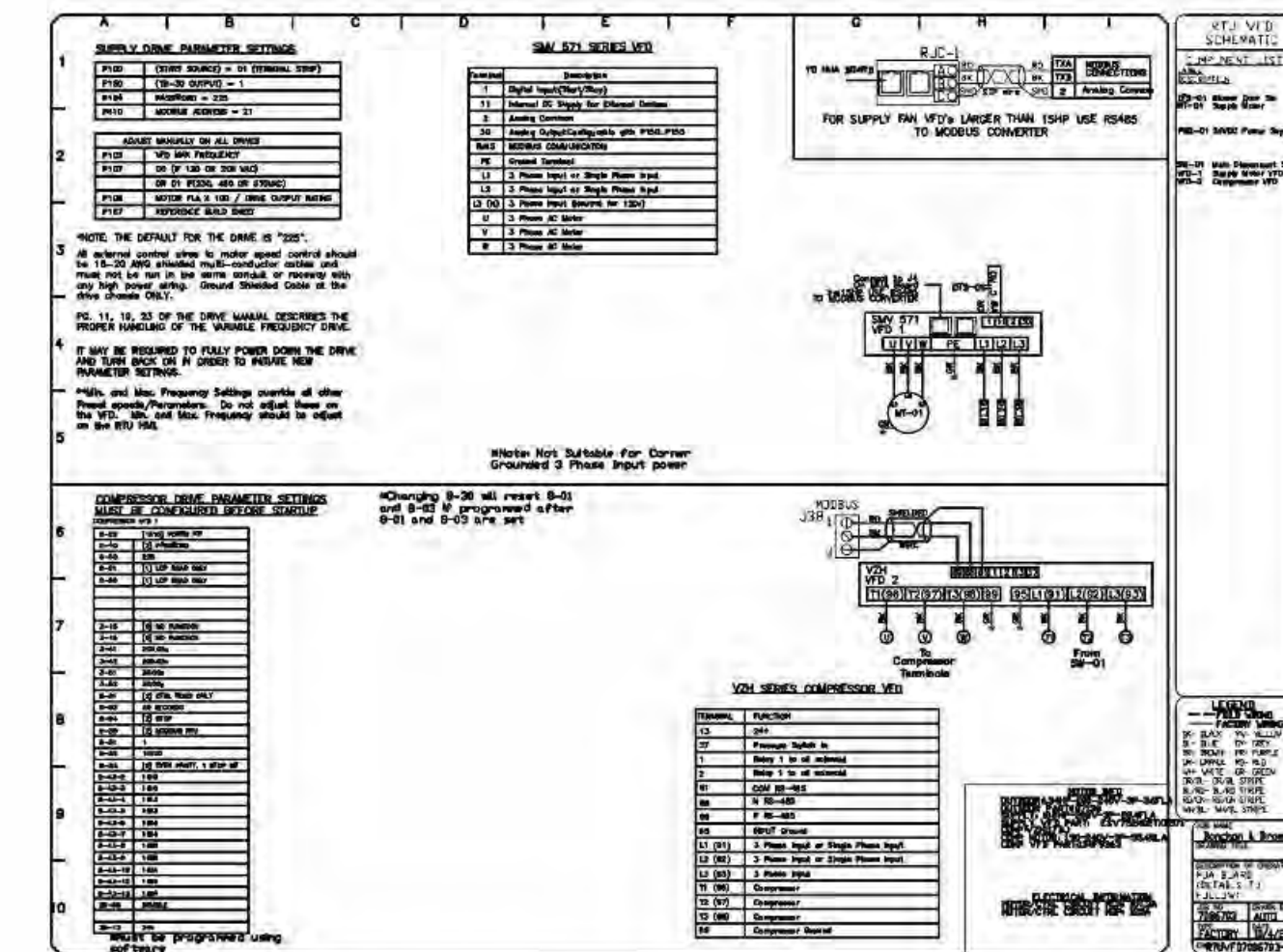
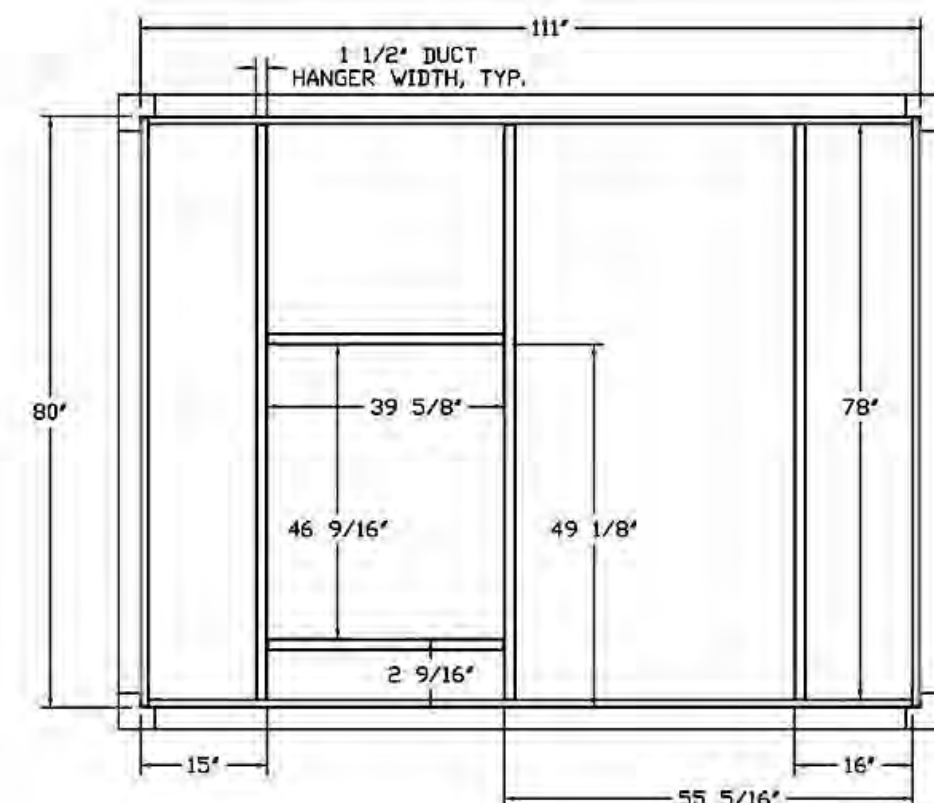
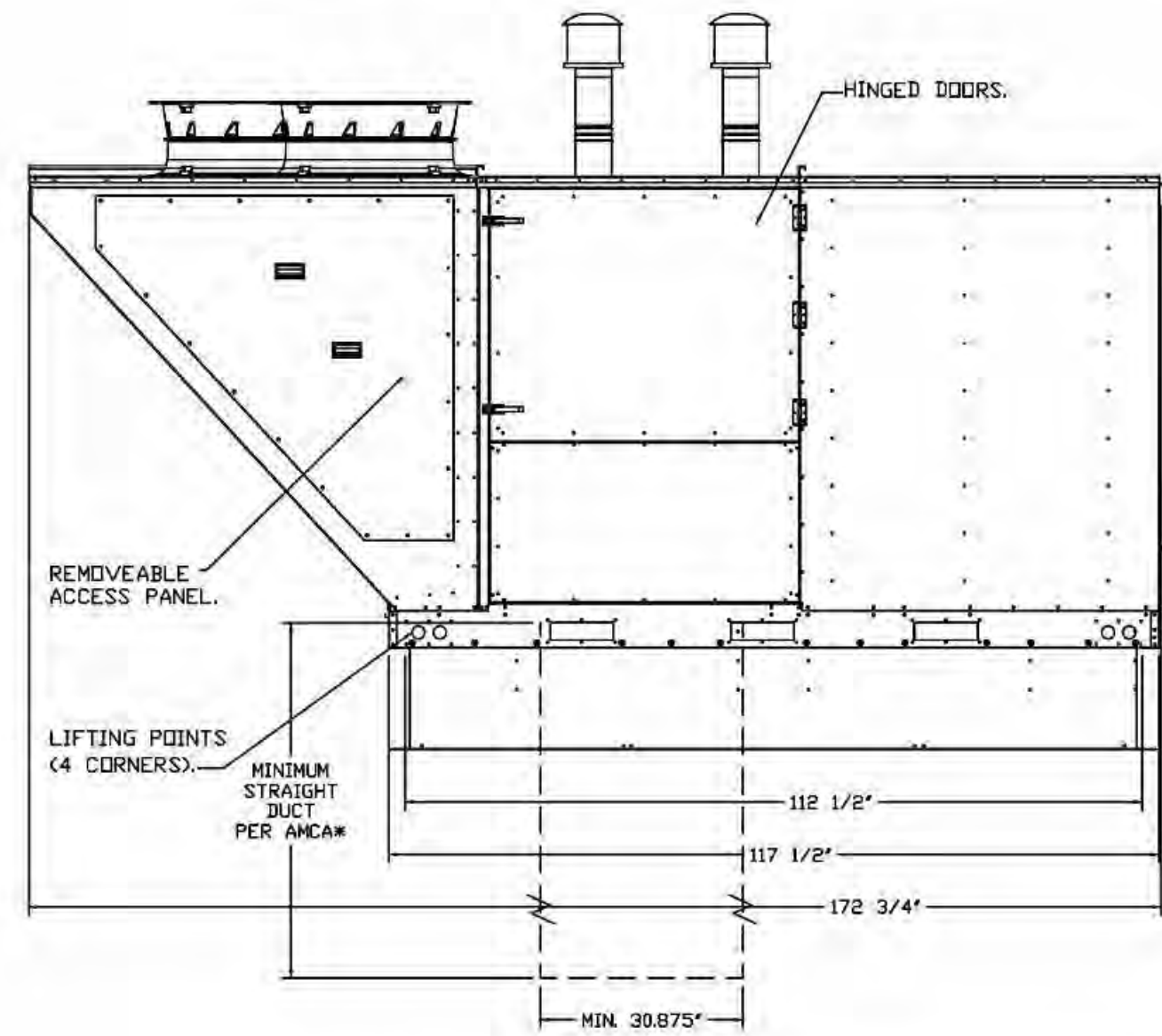
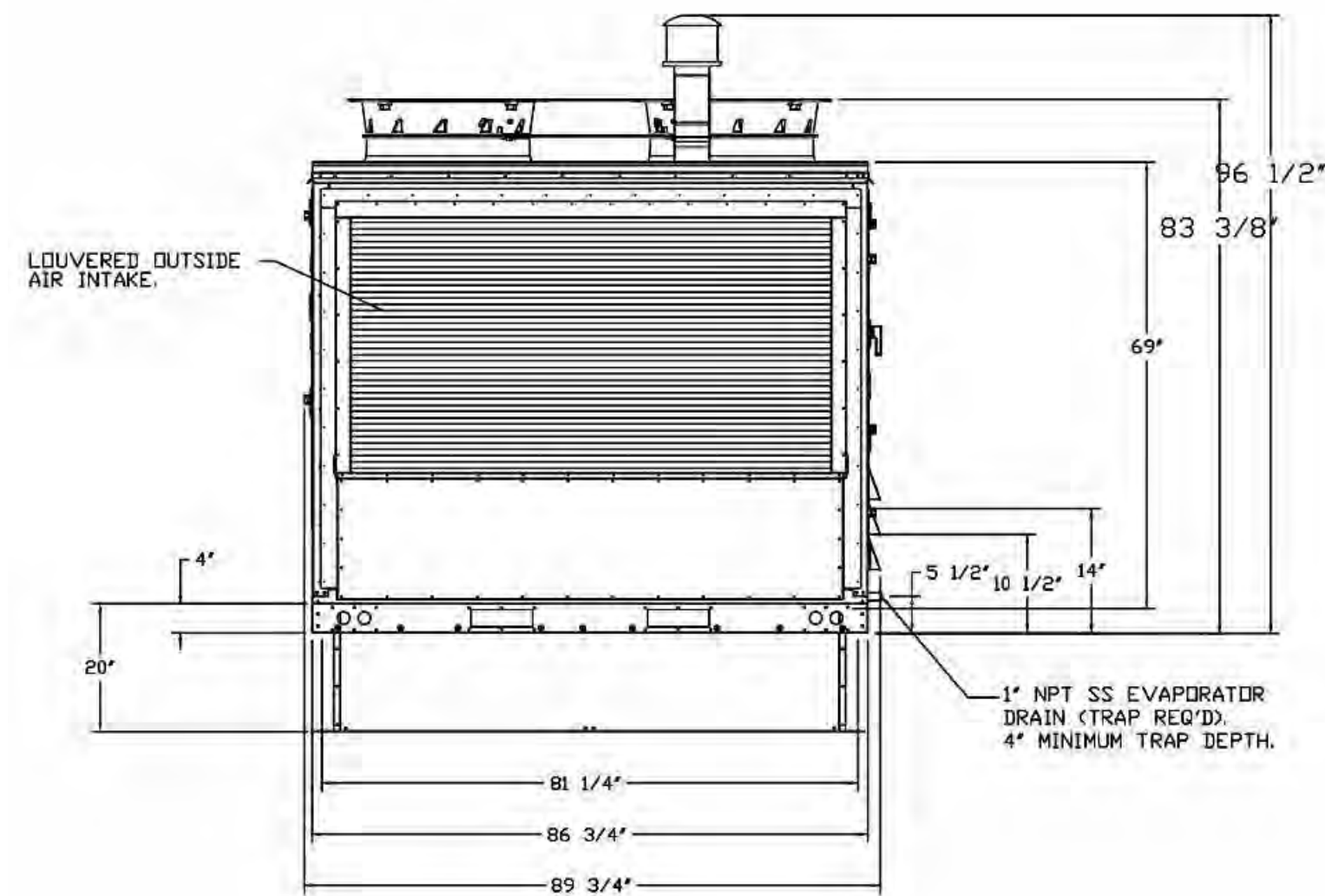
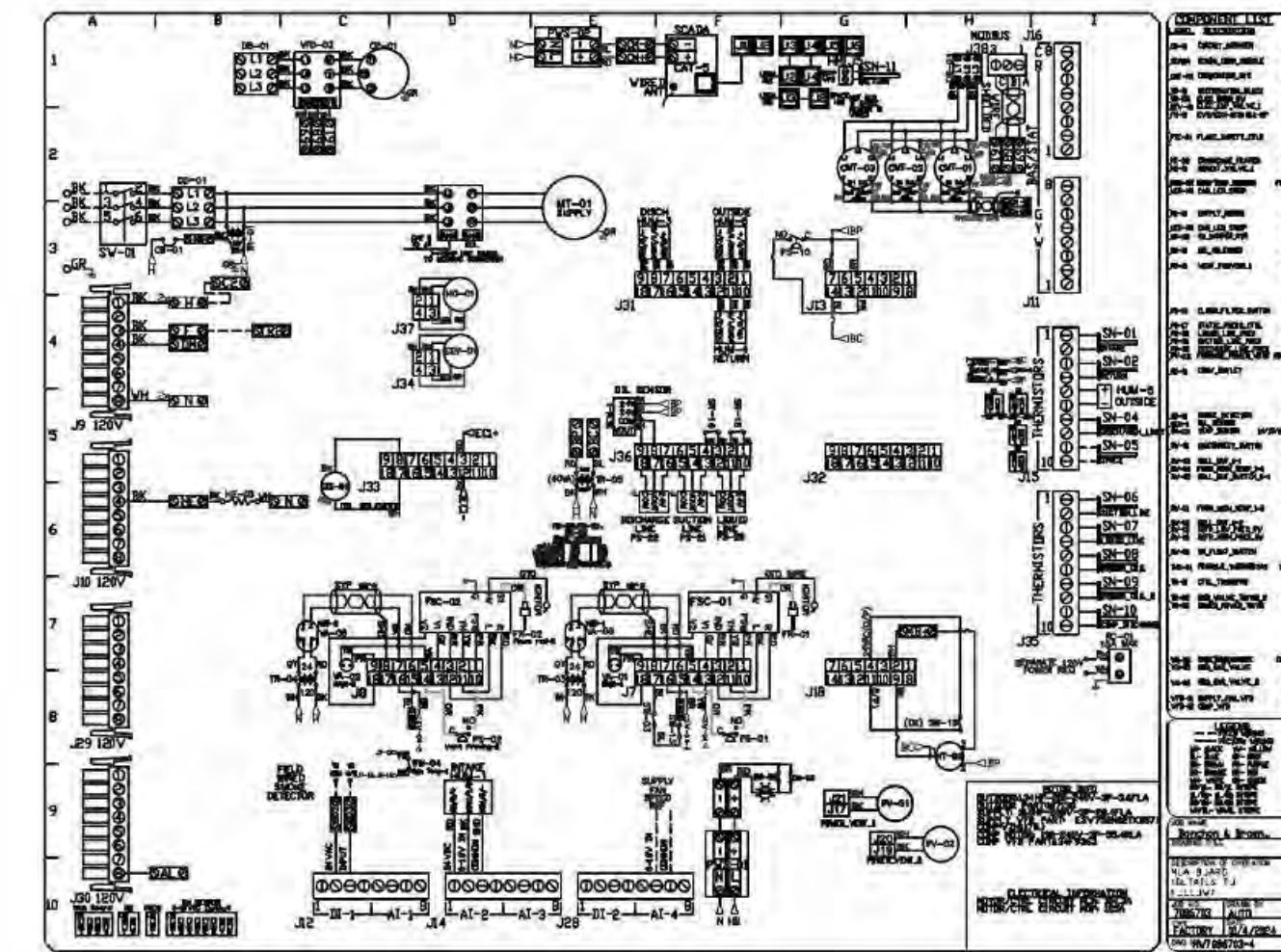
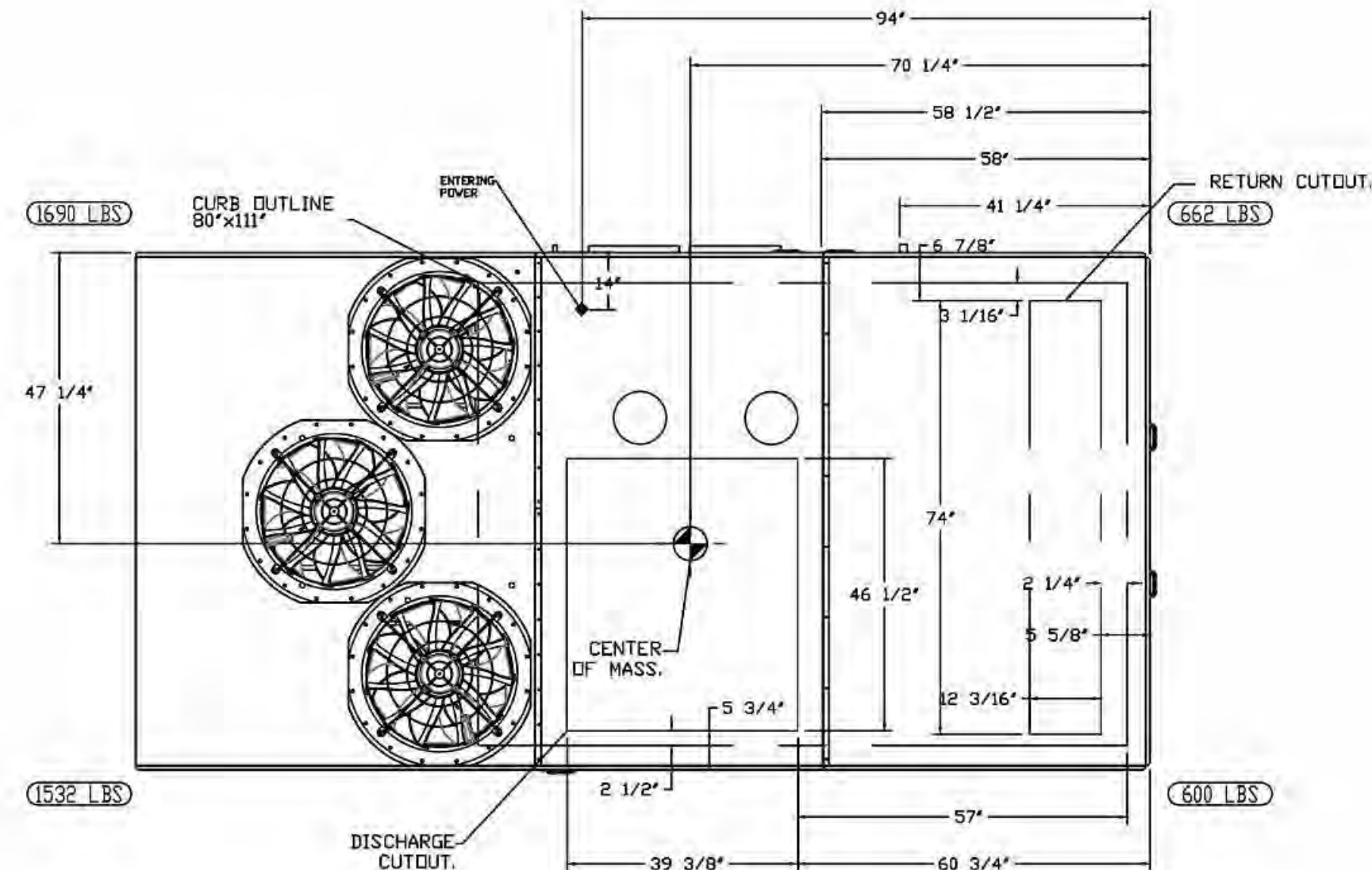
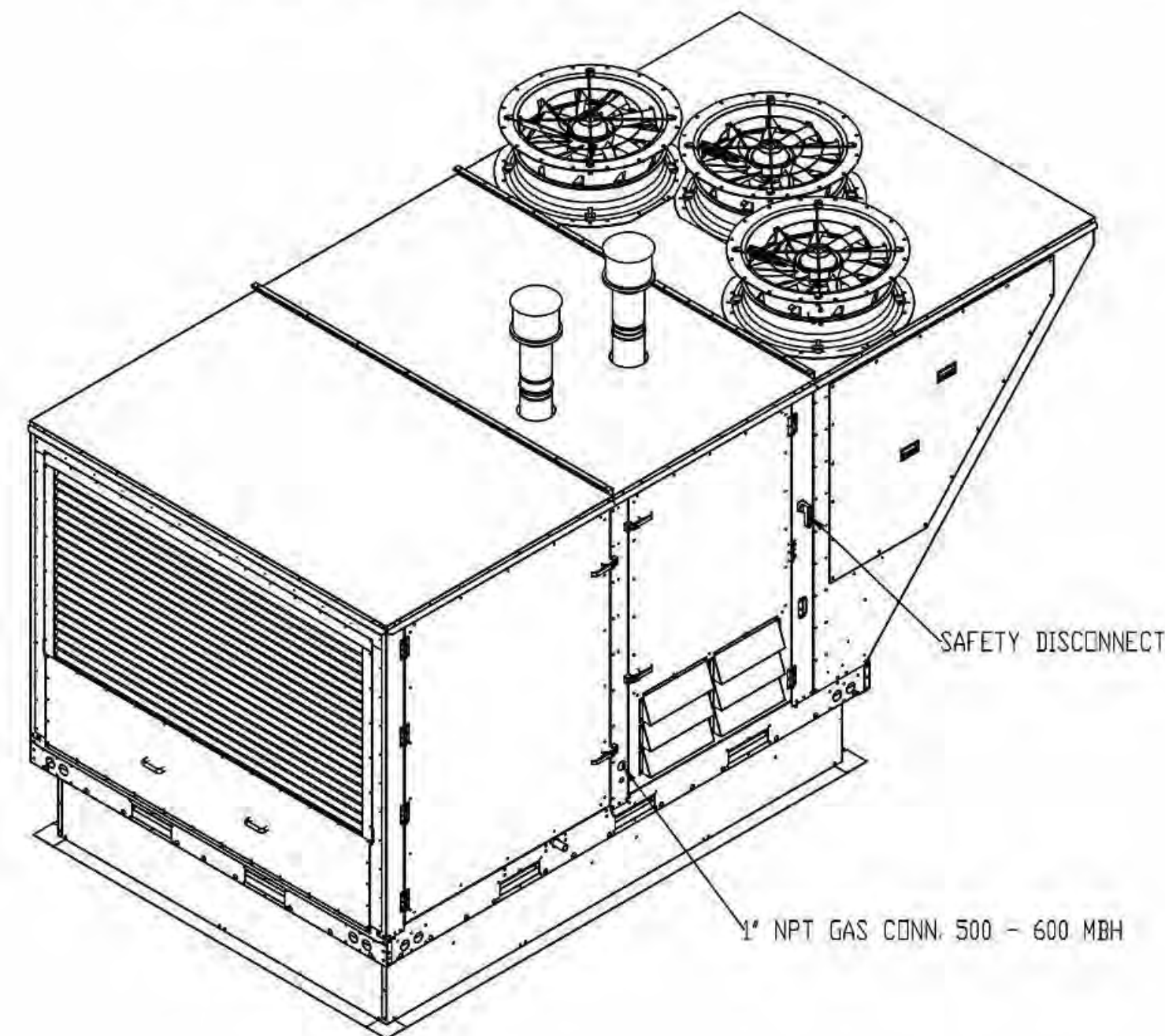
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**H8.6**

FAN #4 CAS-HVAC4-1.700-30MF-22T - HEATER (MAU-1)

- NOTES:
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
  - DENOTES CORNER WEIGHT.
  - ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
  - CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
  - EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 30.875" x 39.75".

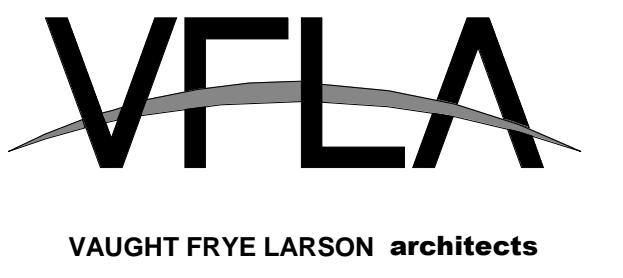


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PROJECT NUMBER: 00-000

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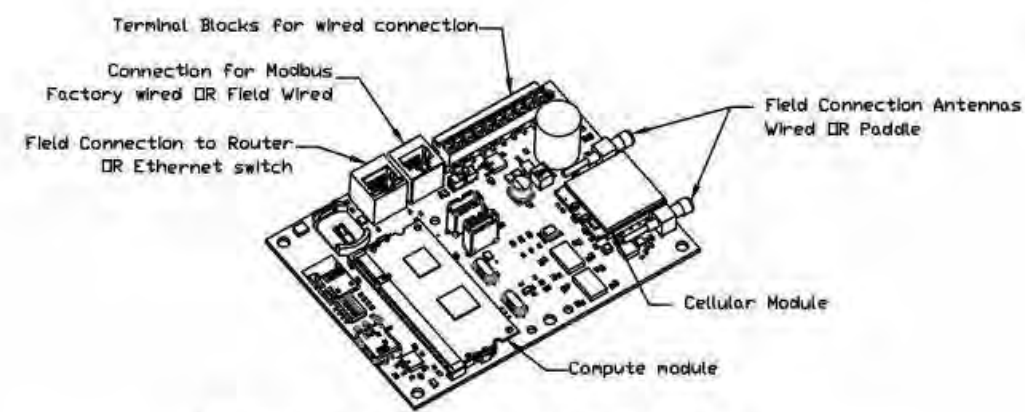
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ELECTRICAL PACKAGE - JOB#7086703

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLT	FLA	
1		DCV-1011	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	3	3,000	208	9.5
				HOOD # 1	1 FAN							
2		DCV-2011	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DCV	KEF-2	EXHAUST	3	2,000	208	8.5
				HOOD # 2	1 FAN							

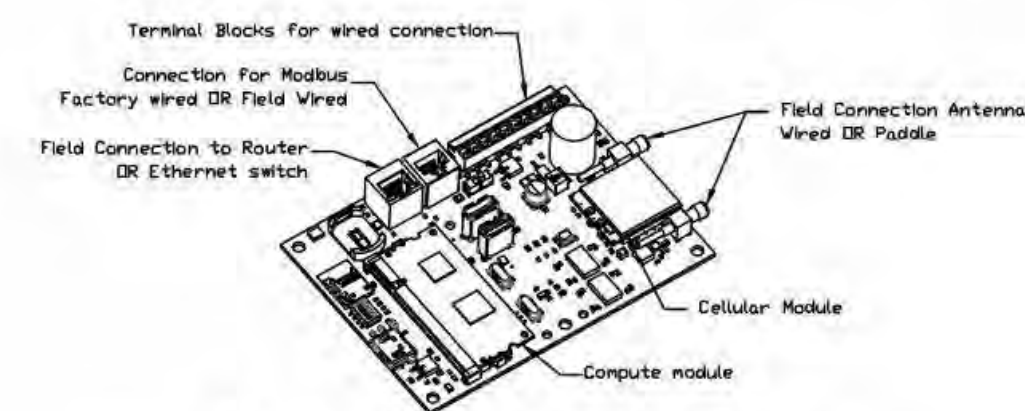


CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fine Condition	MONITOR
Fan Status	MONITOR	CORE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & CONTROL
Fine Condition	MONITOR	Lights Button(s)	MONITOR & CONTROL
CORE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		

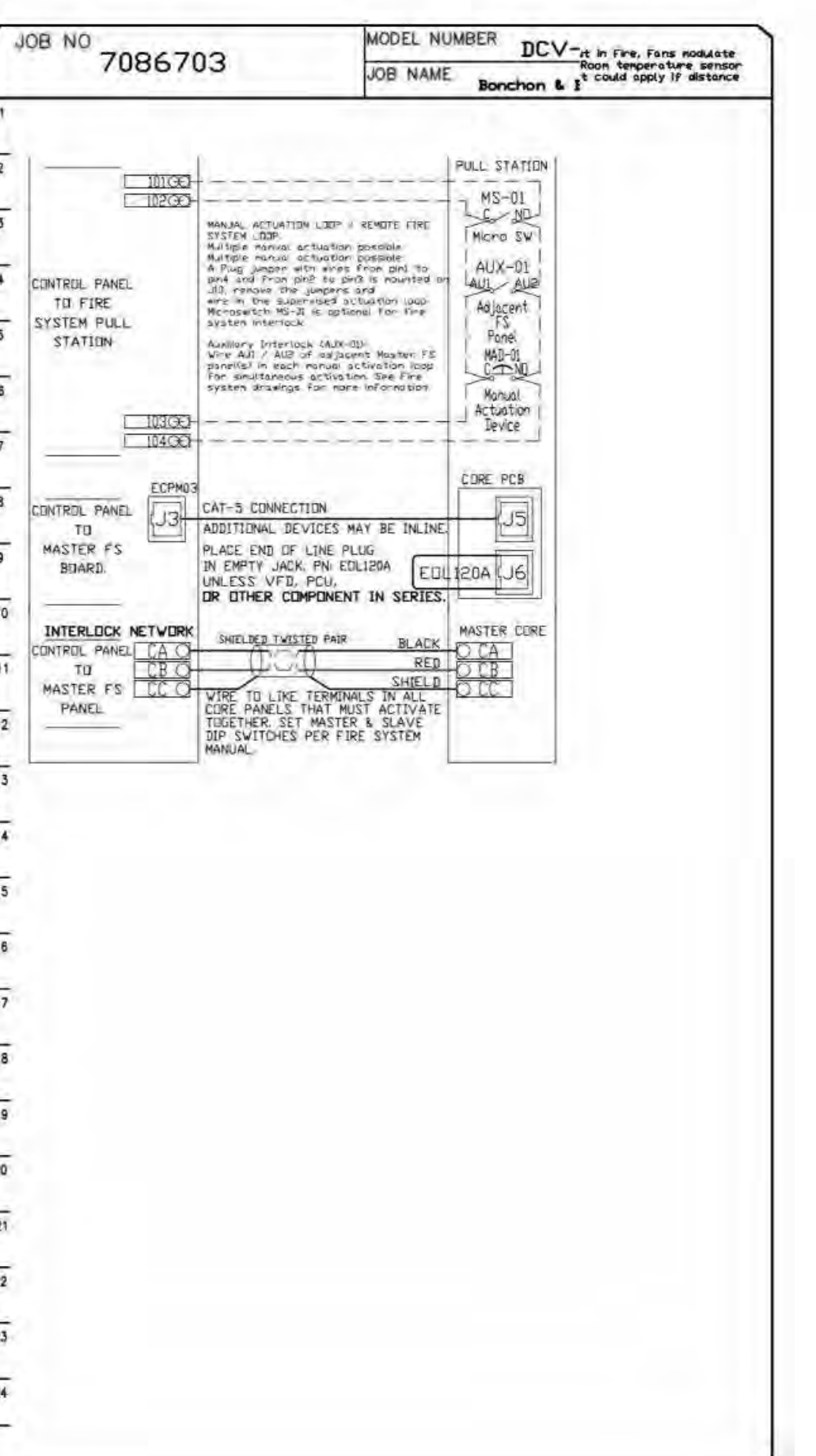
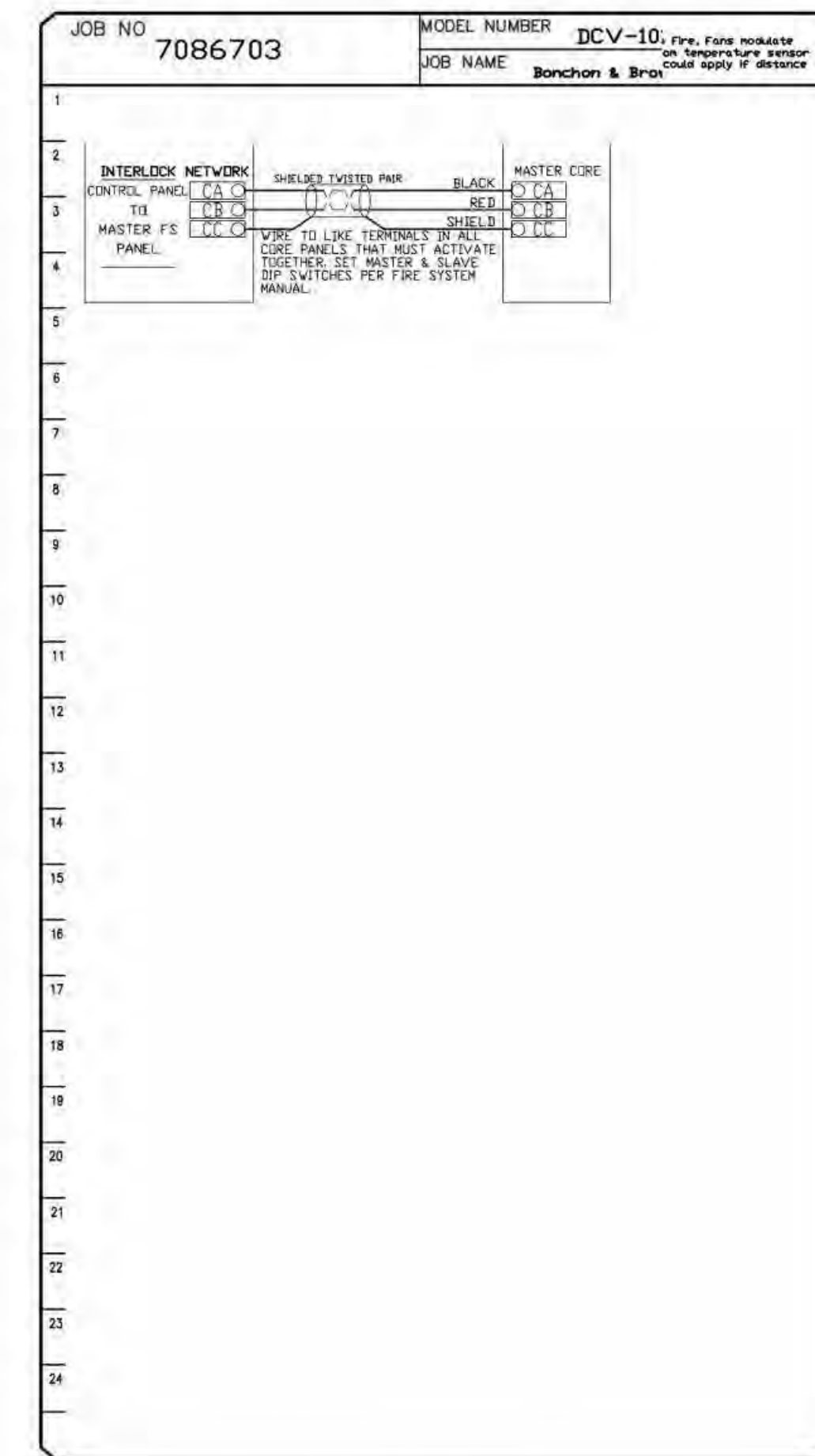
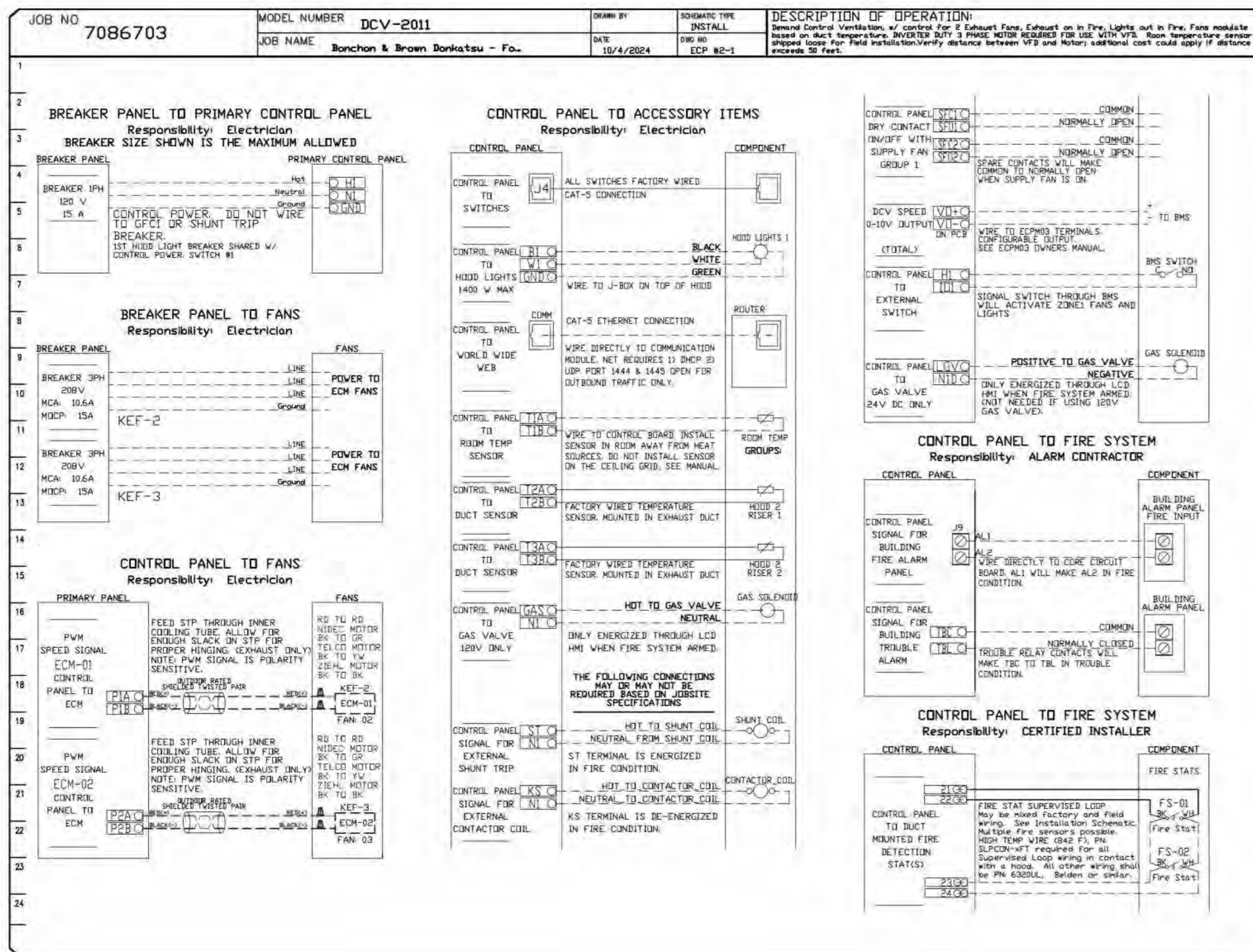
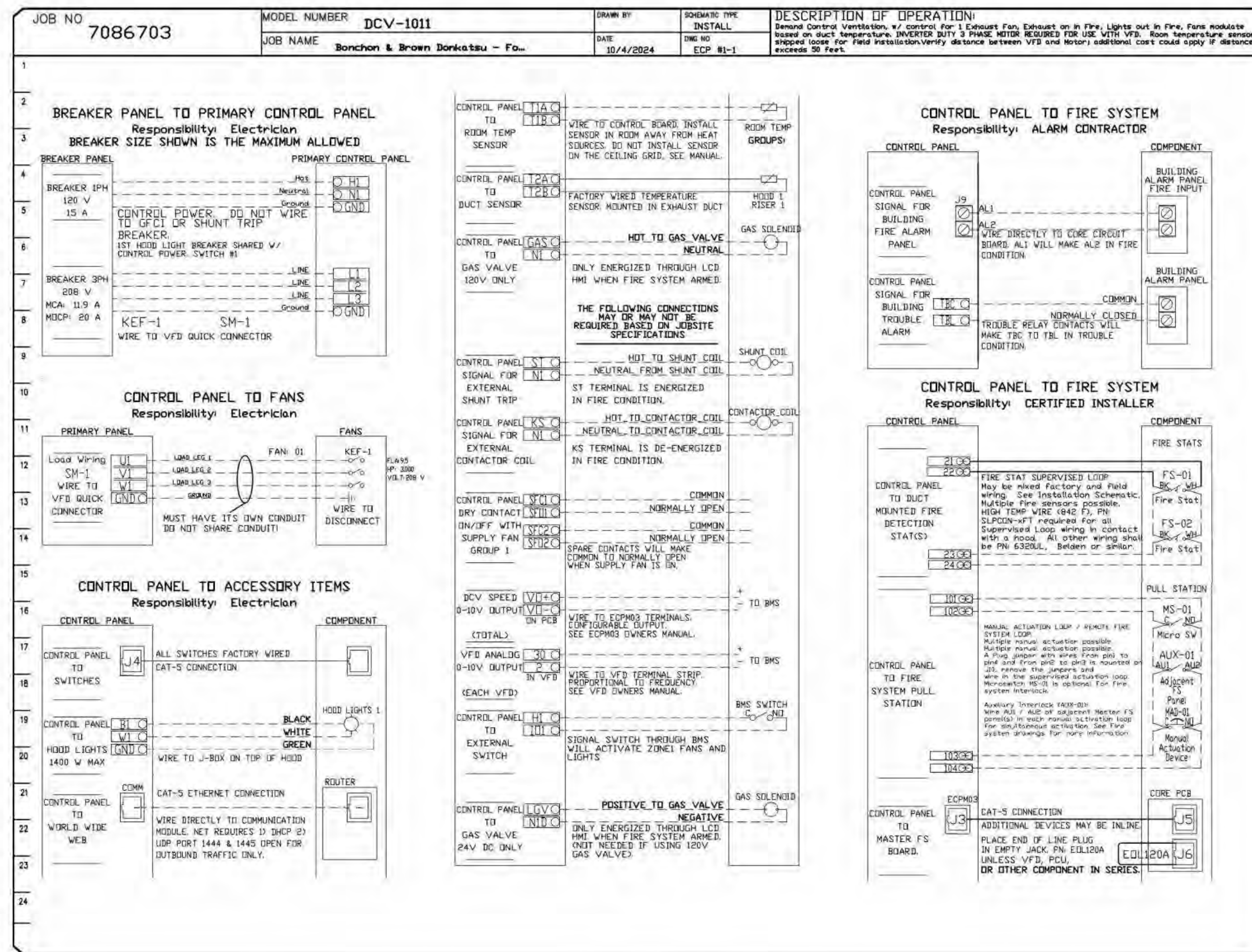


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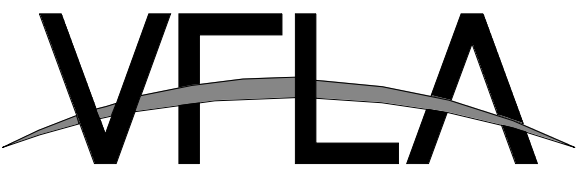
MONITORING AND CONTROL POINTS LIST

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Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fine Condition	MONITOR
Fan Status	MONITOR	CORE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & CONTROL
Fine Condition	MONITOR	Lights Button(s)	MONITOR & CONTROL
CORE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



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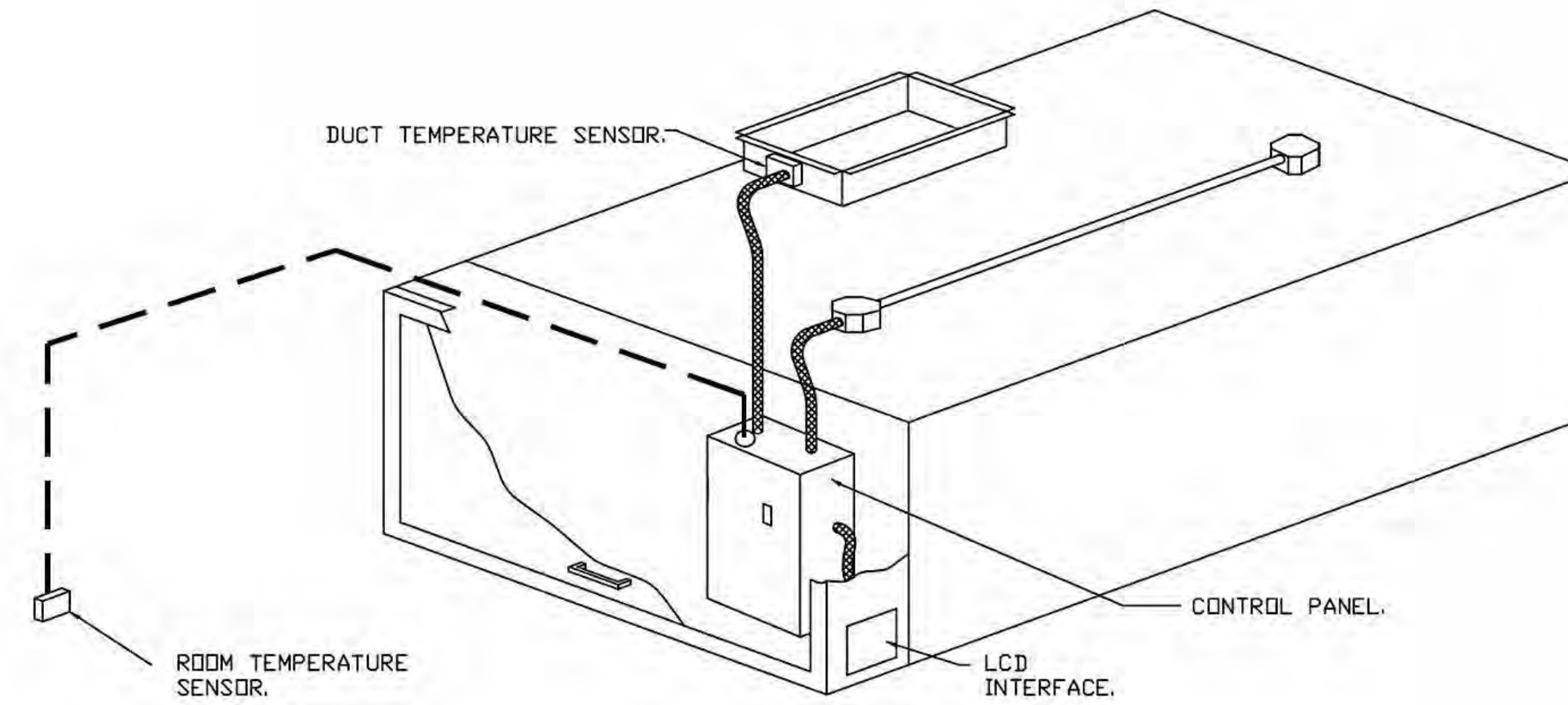
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DRAWING NUMBER:

H8.8

**DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:**

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  - A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  - G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



**TYPICAL HOOD CONTROL PANEL INSTALLATION**

**SEQUENCE OF OPERATIONS:**

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- **AUTOMATIC:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- **MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- **SCHEDULE:** A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- **OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- **FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

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GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

TAG	MAKE & MODEL NUMBER	DESCRIPTION	NECK SIZE	DUTY	COLOR	FRAME SIZE	FRAME TYPE	FRAME CONST	DAMPER	REMARKS
D-2	TITUS OMNI-1	ARCHITECTURAL UNI-FLO DIFFUSER	10"ø	SUPPLY	WHITE	24"x24"	SURFACE	STEEL	YES	WITH TRIM FRAME
D-4	TITUS 300RL-1	SIDEWALL SUPPLY DIFFUSER	18"x8"	SUPPLY	WHITE	NECK +2	SIDEWALL	STEEL	YES	
D-12	TITUS S-DL	DRUM LOUVER - DIRECT SPIRAL MOUNT	24"x10"	SUPPLY	ALUM	NECK +2	DUCT	ALUM	YES	

MECHANICAL DUCT INSULATION SCHEDULE

INSULATION KEY	INSULATION DESCRIPTION	TYPE	THICKNESS (IN)	DENSITY (PCF)	TOTAL R VALUE	ACCOUSTICAL (NRC)
H01	RECTANGULAR DUCT IN CEILING SPACE WITH NO ROOF	LINER	1.0	1.5	4.2	0.70
H02	RECTANGULAR DUCT IN CEILING SPACE ADJACENT TO EXTERIOR ROOF	LINER	1.5	1.5	6.0	0.80
H03	RECTANGULAR DUCT IN CEILING SPACE ADJACENT TO EXTERIOR ROOF AND SPACE IS A RETURN PLENUM	LINER	1.0	1.5	4.2	0.70
H04	FLEXIBLE DUCT TO DIFFUSER	FLEX	1.5	~	6.0	~
H05	ROUND DUCT IN CEILING SPACE WITH NO ROOF	WRAP	1.5	0.75	4.2	~
H06	ROUND DUCT IN SPACE ADJACENT TO EXTERIOR ROOF	WRAP	2.1	0.75	6.0	~
H07	RECTANGULAR DUCT EXTERIOR TO BUILDING ENVELOPE. DOUBLE WALL WATER TIGHT CONSTRUCTION. WRAP NOT ACCEPTABLE	LINER	3.0	1.5	12	0.95
H08	ROUND DUCT EXPOSED IN CONDITIONED SPACE	N/R		~	~	~
H09	RECTANGULAR DUCT EXPOSED IN CONDITIONED SPACE	LINER	1.0	1.5	4.2	0.70
H10	ROUND OR RECTANGULAR OUTSIDE AIR DUCT	WRAP	5.0	0.75	12	~
H11	ROUND DUCT IN VENTILATED CRAWL SPACE	WRAP	5.0	0.75	12	~
H12	RECTANGULAR DUCT IN VENTILATED CRAWL SPACE	LINER	3.0	1.5	12	0.95
H13	BURIED ROUND DUCT	INTERNAL		~	6.0	~

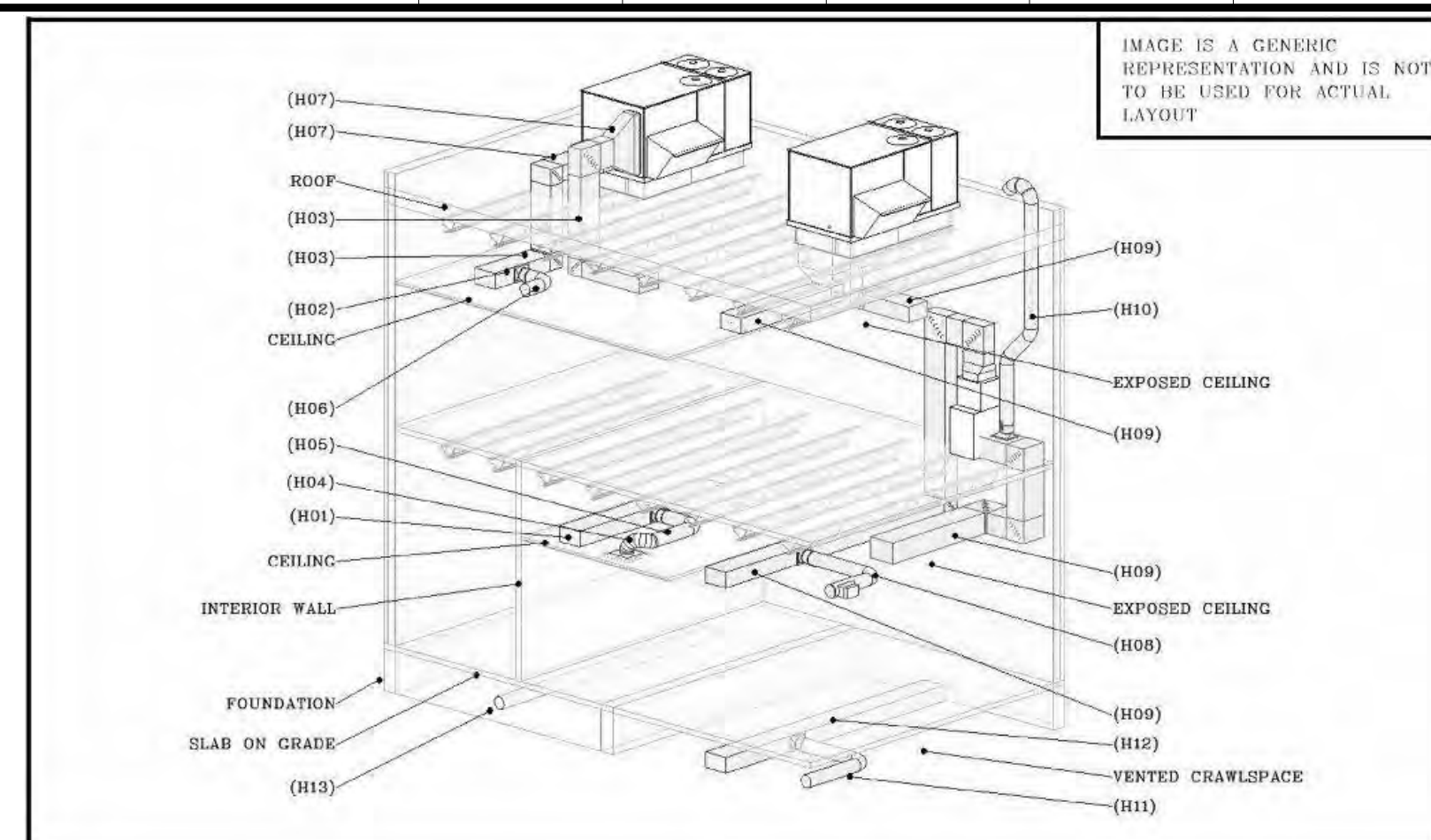
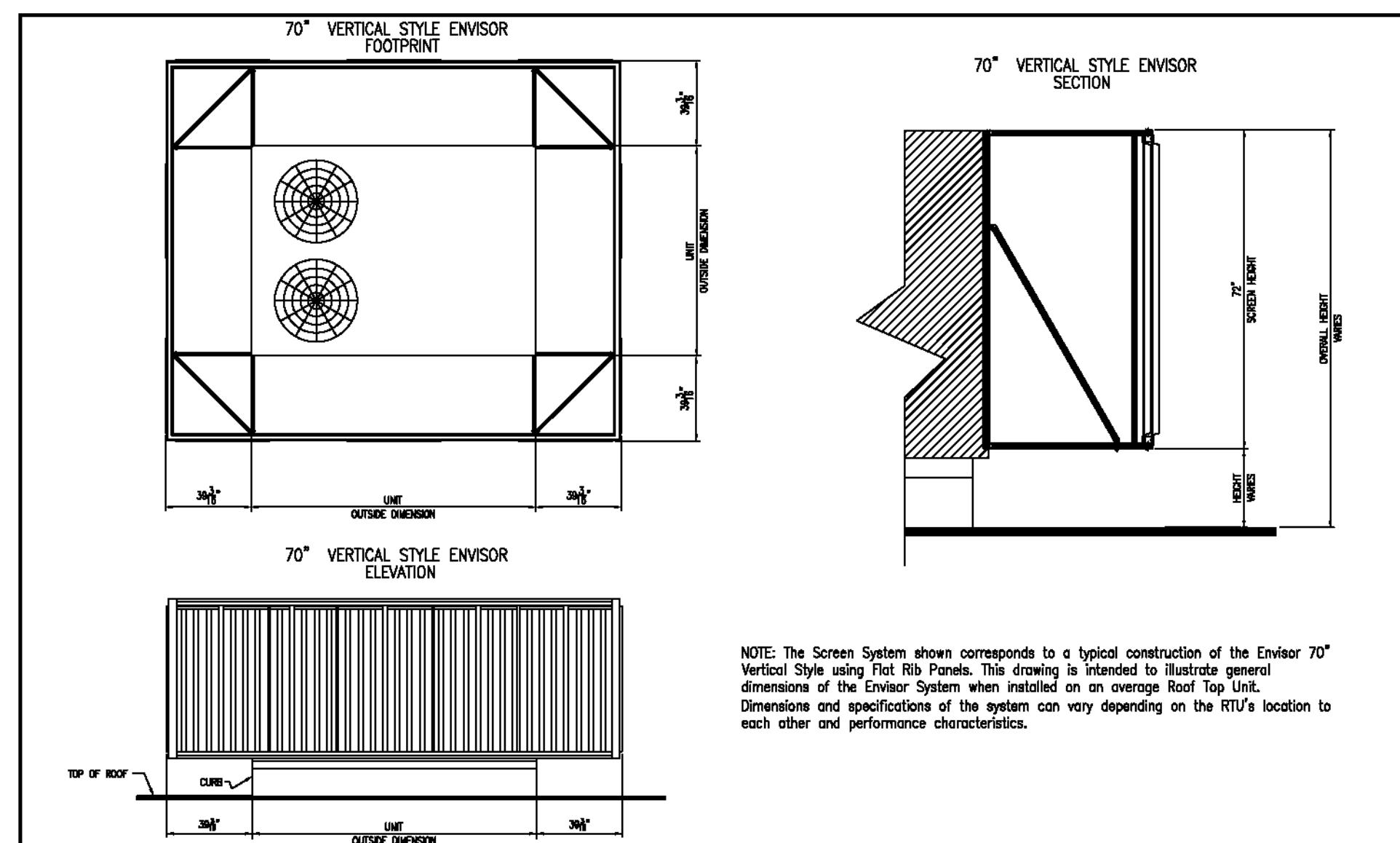


IMAGE IS A GENERIC REPRESENTATION AND IS NOT TO BE USED FOR ACTUAL LAYOUT

MC SHALL WORK WITH MANUFACTURER TO DESIGN PROVIDE AND INSTALL THE MAU SCREEN WALL - THE ARCHITECT SHALL SELECT THE COLOR - THE SCREEN SHALL BE ENTIRELY UNIT SUPPORTED - USE A 3" LINEAL TOP AND BOTTOM BAND - PANELS SHALL BE LOUVER ACRYLIC/ABS TYPE

MAU-1 SCREEN



NOTE: The Screen System shown corresponds to a typical construction of the Envisor 70° Vertical Style using Flat Rib Panels. This drawing is intended to illustrate general dimensions of the Envisor System when installed on an overage Roof Top Unit. Dimensions and specifications of the system can vary depending on the RTU's location to each other and performance characteristics.

<b>cftyscapes</b> architectural innovations 4200 LYMAN COURT HILLIARD, OH (614) 850-2549 <small>THIS IS AN ORIGINAL UNREVISED DRAWING. ANY CHANGES TO THIS DRAWING MUST BE MADE BY THE ORIGINAL DESIGNER. ANY CHANGES TO THIS DRAWING MUST BE MADE BY THE ORIGINAL DESIGNER. ANY CHANGES TO THIS DRAWING MUST BE MADE BY THE ORIGINAL DESIGNER.</small>	PROJECT DESCRIPTION	70° VERTICAL STYLE	REVISION REF.# AND DATE	SCALE	3/16" = 1'
	PROJECT DESCRIPTION	GENERAL SPECIFICATIONS	PAS 02/05/24	SHEET	1 OF 1
CLIENT	CONTACT PERSON	WORK ORDER #	DRAWN BY	CHECKED BY	
ADDRESS	CITY	STATE	ZIP	DATE FILE CREATED	02/05/24
JOB SITE LOCATION	ADDRESS	CITY	STATE	ZIP	DWG FILE # 100039

EF-1



GEMINI Vari-Flow®  
100 Series  
Ceiling Fans

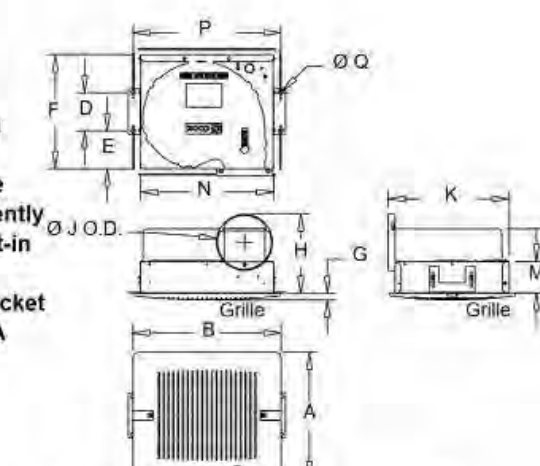
STANDARD CONSTRUCTION FEATURES:  
Forward curved injection molded polypropylene fan wheel - injection molded flame resistant fan housing with round outlet duct - 22 ga. galvanized steel inlet box - Isolation mounted motor, mounted to one piece galvanized stamped steel integral motor mount/inlet - Permanently lubricated electronically commutated variable speed motor with built-in electronic overload protection and disconnect plug - Field wiring compartment with receptacle - Adjustable prepunched mounting bracket - White, high impact styrene injection molded grille - Shipped in ISTA certified transit tested packaging

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Nominal RPM	Input Watts	Speed Control
1	GCVF-100	75	250	836	7	EC

Altitude (ft): 5000 Temperature (F): 70  
Motor Information: Volts/Ph/Hz Nameplate Amps: 115/1/60 25

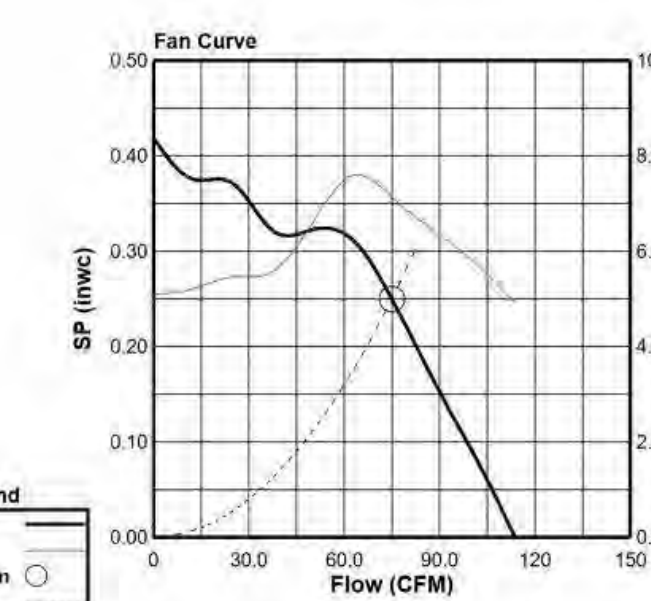
Accessories:  
WHITE PLASTIC GRILLE  
INTEGRAL 90 DAMPER  
SLOPE ROOF JACK RJR100 - 6" CONNECTOR

MARK: 75-CFM-CEILING-ECM-F  
PROJECT: STANDARD\_FANS  
DATE: 05-May-20



Dimensions (inches)	
A Plastic	13-1/4
B Plastic	15-1/2
A Steel	13-1/2
B Steel	15-1/2
A Aluminum	13-3/4
B Aluminum	15-1/2
D	4
E	4
F	12
G	5/8
H	6-3/8
J O.D.	5-15/16
K	12-3/4
L	6-11/16
M	3-1/4
N	14
P	15-1/2
Q	1/2

Weight (lbs) Shipping (\$3 Unit) 30



Fan Curve Legend  
CFM vs SP  
CFM vs Watts  
Point of Operation  
System Curve

BONCHON & BROWN  
DONKATSU

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High Wall Heat Pump Ductless System  
Indoor Model: 40MAQB36B-3



Submittal Data

Job Data: Location: Buyer: Buyer P.O. #: Carrier #: Unit Number: Model Number: Performance Data Certified By: Date:



- STANDARD FEATURES: Modes: Cool, Heat, Dry, Fan, Auto; Turbo Mode; Four fan speeds; Sleep Mode; Up-Down Louver control; Follow Me; Heating Setback; Quiet indoor operation; Anti-corrosive fin coating.

LIMITED WARRANTY: 10 year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years.

Table with columns for System, Size, Indoor Model, Voltage, Phase, Cycle, V/Ph/Hz, Power Supply, Indoor unit powered by outdoor unit, BSCA, Controls, Wireless Remote Controller, Operating Range, Cooling Indoor DB Min-Max, Heating Indoor DB Min-Max, Piping, Pipe Connection Size - Liquid, Pipe Connection Size - Suction.

Performance may vary based on the outdoor unit matched to it. See compatible outdoor units pages for Performance Data. For Compatibility See Product Data.

Accessories

Table listing accessories: KSACN0101AAA Condensate Pump (200/230V), KSACN0101AAA Wired Remote Control with Timer Function, KSACN0101AAA Wired Remote Control 7 Day Programmable\*, KSACN0101AAA Wi-Fi™ Kit High Wall Mt Tier, KSACN0101230 24V Interface Kit 200V, S2ES-900-690 Wireless Remote Control Locking Mount Kit.

Note: \*KSACN0101AAA Wired Remote Control 7 Day programmable compatible with High Walls Units starting with Serial Number 0216V10001. \*\*24V Interface compatible with High Walls Units starting with Serial Number 4316V10001.

Construction View

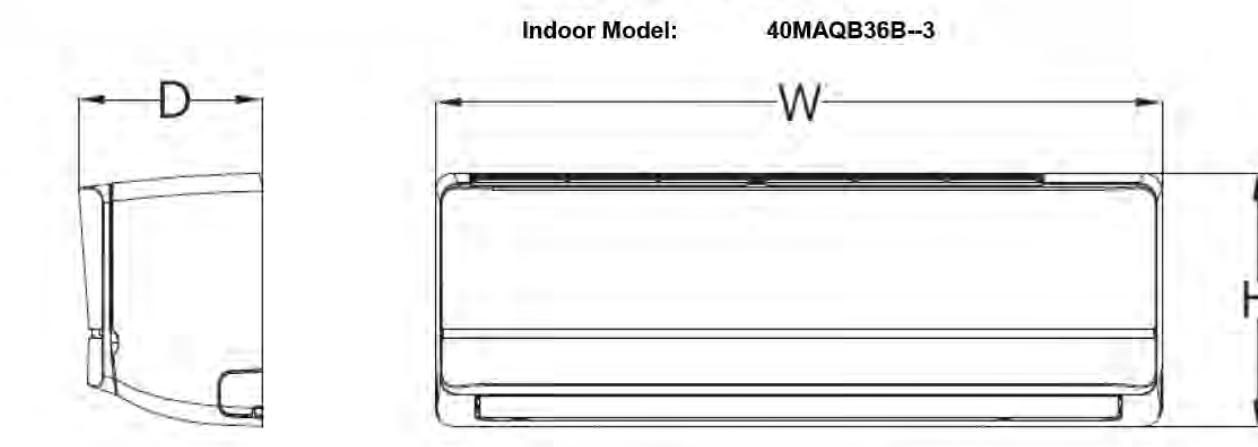


Table with dimensions: Unit Width (46.09 in), Unit Height (13.39 in), Unit Depth (10.16 in), Net Weight (40.12 lbs).

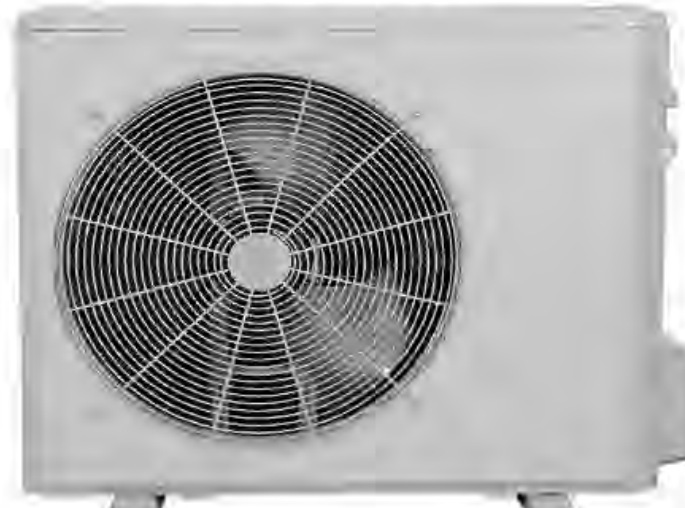


Outdoor Unit Single Zone Heat Pump Ductless System

Outdoor Model: 38MAQB36R-3

Submittal Data

Job Data: Location: Buyer: Buyer P.O. #: Carrier #: Unit Number: Model Number: Performance Data Certified By: Date:



STANDARD FEATURES

- Variable Speed Inverter; Factory installed Base Pan Heater; Low Voltage Controls; Auto-Restart function; Condenser High Temp Protection; Refrigerant Leakage Detection; Modes: Cool, Heat, Dry, Fan, Auto; Quiet operation; Anti-corrosive fin coating.

LIMITED WARRANTY: 10 year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years.

Table with columns for System, Size, Outdoor Model, Voltage, Phase, Cycle, V/Ph/Hz, Electrical, MCA, MCCP - Fuse Rating, Operating Range, Cooling Outdoor DB Min - Max, Heating Outdoor DB Min - Max, Total Piping Length, Piping Lift, Pipe Connection Size - Liquid, Pipe Connection Size - Suction, Refrigerant, Metering Device, Charge, Net Weight, Airflow, Sound Pressure.

Accessories

Table listing accessories: RCDH-331E3-1701 Piping Adaptor Kit, RCDH-40MD00003 Piping Adaptor Kit.

Construction View

Outdoor Model: 38MAQB36R-3

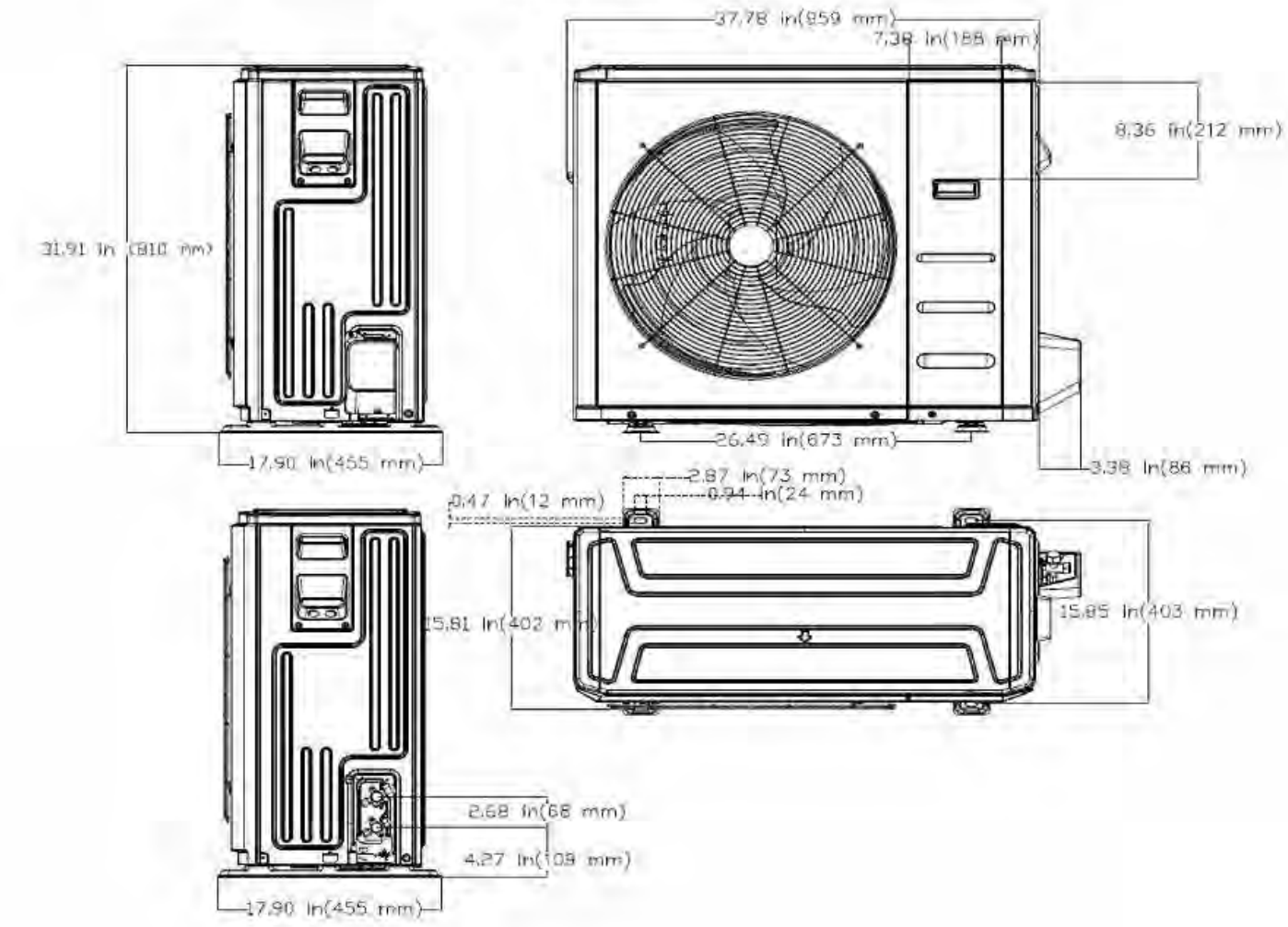


Table with columns for Outdoor Coil, Face Area, No. Rows, Fins per inch, Circuits, Type, Model, Oil Type, Oil Charge, Rated Current, Outdoor, Unit Width, Unit Height, Unit Depth, Net Weight, Airflow, Sound Pressure.

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IN ASSOCIATION WITH:

INTEGRATED MEP logo and address: 320 MAPLE ST, SUITE 110 FORT COLLINS, CO 80521 970-556-0570

PERMIT SET

Table with columns: No., Description, Date. Row 1: DESIGN DEVELOPMENT, 20 SEPT 2024. Row 2: PERMIT SET, 11 OCT 2024.

Table with columns: No., Description, Date. Revisions section.

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HVAC SCHEDULES

DRAWING NUMBER: H8.11

COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

Project Information: Energy Code: 2021 IECC; Project Title: Bonchon and Brown; Location: Fort Collins, Colorado; Climate Zone: 5b; Project Type: Addition.

Construction Site: Owner/Agent: Designer/Contractor: THOMAS SEGELHORST INTEGRATED MEP 320 MAPLE ST #110 FORT COLLINS, COLORADO 80521 970-556-0570 FRONT-DESK@INT-MECH.COM

Mechanical Systems List Quantity System Type & Description

- MAU-1 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 552 kBtu/h; Cooling: 1 each - DX DOAS (Dehumidification), Capacity = 212 kBtu/h; Fan System: FAN SYSTEM 1 | MAU-1 - Compliance (Brake HP and fan efficiency method): Passes.

Mechanical Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. Thomas Segelhorst - P.E. Signature, 10 Oct 2024 Date.



10 Oct 2024

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## GENERAL MECHANICAL REQUIREMENTS:

### CODES AND PERMITS

WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES. PERMITS NECESSARY FOR PERFORMANCE OF WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.

### PRE-BID

FOR EXISTING BUILDINGS, THE BIDDERS SHALL PERFORM A BUILDING AND SPACE SITE VISIT PRIOR TO BID. THE ACT OF SUBMITTING A BID INDICATES THE BIDDER DOES AGREE THEY HAVE A FULL UNDERSTANDING OF THE SCOPE OF WORK INVOLVED WITH THE EXISTING CONDITIONS.

### DRAWINGS AND COORDINATION

DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC IN NATURE, AND ARE NOT INTENDED TO BE SCALED FOR EXACT MEASUREMENTS NOR TO SERVE AS SHOP DRAWINGS. CHANGES FROM THE PLANS MADE WITHOUT CONSENT OF THE ENGINEER SHALL RELIEVE THE ENGINEER OF RESPONSIBILITY FOR ALL CONSEQUENCES ARISING OUT OF SUCH CHANGES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE CONDITIONS REQUIRE REASONABLE CHANGES TO THOSE INDICATED ON THE DRAWINGS, MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE ALL WORK WITH OTHER TRADES.

### WARRANTY

WORKMANSHIP, MATERIALS, EQUIPMENT AND PROPER OPERATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE FROM THE OWNER. INITIAL ACCEPTANCE OF WORK SHALL NOT WAIVE THIS GUARANTEE. THIS GUARANTEE SHALL NOT INCLUDE NORMAL MAINTENANCE REQUIRED BY THE OWNER AS DESCRIBED IN EQUIPMENT OPERATION AND MAINTENANCE MANUALS.

### SUBMITTALS

CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER A PORTABLE DOCUMENT FORMAT "PDF" COPY OF SUBMITTAL BROCHURES FOR REVIEW. PROVIDE INFORMATION ON ALL MAJOR EQUIPMENT AS LISTED ON DRAWING EQUIPMENT SCHEDULES, AS WELL AS VALVES, DUCTWORK ACCESSORIES AND TEMPERATURE CONTROL DIAGRAMS AS APPLICABLE.

### OPERATION AND MAINTENANCE MANUALS

CONTRACTOR SHALL FURNISH AT THE COMPLETION OF THE PROJECT A PORTABLE DOCUMENT FORMAT "PDF" COPY OF COMPLETE OPERATION AND MAINTENANCE MANUALS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO TURNOVER TO OWNER. MANUALS TO BE BOUND AND INCLUDE INSTALLATION INSTRUCTIONS, REPLACEMENT PARTS LISTS AND MAINTENANCE INFORMATION ON ALL EQUIPMENT AS DESCRIBED IN THE SUBMITTALS SECTION. COMPLETED OPERATION AND MAINTENANCE MANUALS ARE TO BE FORWARDED TO THE OWNER WITHIN 90 DAYS AFTER OWNER BUILDING ACCEPTANCE.

### PRODUCT SUBSTITUTIONS

MANUFACTURER MODEL NUMBERS LISTED ON THE DRAWINGS AND/OR SPECIFICATIONS ARE TO BE CONSIDERED AS THE BASIS OF DESIGN. WHERE TWO OR MORE ALTERNATE MANUFACTURERS OR MATERIALS ARE LISTED, THE CHOICE OF THESE SHALL BE OPTIONAL WITH THE CONTRACTOR. PRIOR TO THE AWARDING OF THE CONTRACT, CONTRACTOR MAY REQUEST A PROPOSED SUBSTITUTION OF MATERIALS IN WRITING TO THE ARCHITECT/ENGINEER NO LATER THAN SEVEN DAYS PRIOR TO THE RECEIPT OF BIDS. THE COST OF ANY CHANGES REQUIRED BY OTHER TRADES, INCLUDING A/E DESIGN, DUE TO THE USE OF EQUIPMENT AND/OR MATERIALS OTHER THAN THAT OF THE BASIS OF DESIGN SHALL BE PAID BY THE CONTRACTOR.

### RECORD DRAWINGS

CONTRACTORS SHALL MAINTAIN A COMPLETE AND ACCURATE SET OF MARKED UP DRAWINGS SHOWING ACTUAL LOCATIONS OF INSTALLED WORK. THESE DRAWINGS ARE TO BE FORWARDED TO THE OWNER AS PART OF THE OPERATION AND MAINTENANCE MANUALS AT THE COMPLETION OF THE PROJECT.

### ACCESS DOORS

PROVIDE ALL ACCESS DOORS/PANELS AS REQUIRED FOR ACCESS TO VALVES, DAMPERS, CONTROL DEVICES, FILTERS AND ANY OTHER ITEMS FOR WHICH ACCESS IS REQUIRED FOR EITHER OPERATION OR SERVICING. WHERE ACCESS DOORS ARE TO BE INSTALLED IN ASSEMBLIES REQUIRED TO HAVE A SPECIFIC FIRE RATING, ACCESS DOORS SHALL ALSO BE FIRE RATED.

### PIPING AND DUCTWORK SEALANT THROUGH RATED ASSEMBLIES

PENETRATIONS SHALL BE SEALED AS REQUIRED IN ACCORDANCE WITH BUILDING AND MECHANICAL CODES TO RESIST THE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION IN ORDER TO MAINTAIN THE RESISTANCE RATING OF THE CONSTRUCTION BEING PENETRATED.

### PROTECTION OF MATERIALS AND EQUIPMENT

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL WORK, MATERIALS, AND EQUIPMENT PROVIDED UNDER THIS SECTION. PIPE OPENINGS SHALL BE CLOSED WITH CAPS OR PLUGS TO PREVENT THE ENTRANCE OF DEBRIS DURING CONSTRUCTION. ALL DUCTWORK OPENINGS SHALL BE SEALED CLOSED DURING CONSTRUCTION.

### ALTITUDE

SUPPLIERS SHALL CONFIRM THAT ALL EQUIPMENT BEING FURNISHED IS APPROPRIATE FOR USE AT THE ALTITUDE OF THE SITE.

### EQUIPMENT AND PIPING IDENTIFICATION

PROVIDE EQUIPMENT LABELS FOR ALL MAJOR EQUIPMENT, INCLUDING BUT NOT LIMITED TO AIR HANDLING SYSTEMS, FANS, VAV BOXES, CONTROLS, DAMPERS, CONTROL VALVES AND PUMPS. PROVIDE PIPE MARKERS ON CW, HW AND HWC SYSTEMS. LABELS TO BE AT MAXIMUM 8 FEET APART, WITH FLOW DIRECTION INDICATED, AS APPLICABLE. ADDITIONALLY, PROVIDE LABELING ON POTABLE WATER MANIFOLDS INDICATING PLUMBING FIXTURE SERVED BY THE OUTLET, AS APPLICABLE. LABELS SHALL BE AFFIXED OR ADHERED PERMANENTLY TO EQUIPMENT. EQUIPMENT INSTALLED INDOORS TO BE LABELED WITH EMBOSSING TAPE. EQUIPMENT INSTALLED OUTDOORS TO BE LABELED WITH ENGRAVED PLASTIC LAMINATE SIGNS. PIPE MARKERS TO BE SELF-ADHESIVE, MANUFACTURED FOR SUCH PURPOSE.

### STARTERS AND DISCONNECTS

EQUIPMENT STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. EQUIPMENT DISCONNECTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE DRAWINGS. STARTERS SHALL BE NEMA TYPE, AND SHALL INCLUDE PHASE MONITORING FOR MOTORS 5 HP AND LARGER.

### TESTING

TESTING SHALL BE PERFORMED ON THE FOLLOWING SYSTEMS SPECIFIED. ALL SYSTEMS LISTED MAY NOT BE INCLUDED IN PROJECT. REFER TO DRAWINGS FOR APPLICABLE SYSTEMS. SOIL, WASTE AND STORM DRAINAGE PIPING SHALL BE TESTED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES. DOMESTIC WATER PIPING SHALL BE TESTED AND PROVEN WATERTIGHT UNDER A PRESSURE NOT LESS THAN THE WORKING PRESSURE OF THE SYSTEM FOR A 24 HOUR PERIOD. POTABLE WATER PIPING SYSTEM SHALL BE CHLORINATED AND STERILIZED IN ACCORDANCE WITH REQUIREMENTS OF LOCAL JURISDICTION. NATURAL GAS PIPING SHALL BE TESTED WITH AN AIR PRESSURE OF MINIMUM TWO TIMES THE DESIGN SYSTEM PRESSURE, BUT NO LESS THAN 3 PSIG, FOR A PERIOD OF 24 HOURS WITHOUT PRESSURE DROP.

### BALANCING

SYSTEM BALANCING SHALL BE PERFORMED BY A CERTIFIED BALANCING CONTRACTOR. BALANCE ALL SYSTEMS INCLUDING AIRFLOW TO AND FROM ALL OPENINGS, AND PUMPED WATER SYSTEMS INCLUDING DOMESTIC WATER RECIRCULATION SYSTEMS AS APPLICABLE. MAKE ANY ADJUSTMENTS NECESSARY TO RESULT IN CONDITIONS INDICATED AND PROVIDE READJUSTMENTS TO ITEMS IN REPORT AS MAY BE REQUESTED BY ARCHITECT/ENGINEER. SUBMIT TWO COPIES OF TEST AND BALANCE REPORT FOR APPROVAL. FAN AND PUMP SYSTEMS TO BE BALANCED WITHIN PLUS OR MINUS 5 PERCENT OF LISTED VALUES. AIR INLETS AND OUTLETS TO BE BALANCED WITHIN PLUS 10 PERCENT OR MINUS 5 PERCENT OF LISTED VALUES. BALANCE REPORT TO INCLUDE:

- UNIT IDENTIFICATION
- MANUFACTURER AND NAMEPLATE DATA
- EQUIPMENT NAMEPLATE AMPERAGE AND ACTUAL AMPERAGE
- RPM (DESIGN AND ACTUAL)
- FAN CFM (DESIGN AND ACTUAL)
- FAN STATIC PRESSURE (DESIGN AND ACTUAL)
- PUMP GPM (DESIGN AND ACTUAL)
- PUMP DISCHARGE AND SUCTION PRESSURE
- REGISTER, GRILLE, DIFFUSER REFERENCE NUMBER AND LOCATION
- INLET/OUTLET CFM (DESIGN AND ACTUAL)
- FLOW DEVICE PRESSURE DROP, CFM OR GPM

A FINAL BALANCING REPORT SHALL BE PROVIDED TO THE OWNER AFTER COMPLETION OF THE PROJECT.

### CLEANING

AT THE COMPLETION OF WORK, ALL FIXTURES AND EQUIPMENT SHALL BE THOROUGHLY CLEANED AND DELIVERED IN A CONDITION SATISFACTORY TO THE ARCHITECT. ALL FILTERS SHALL BE REPLACED WITH NEW PRIOR TO OWNER ACCEPTANCE OF THE BUILDING.

### OPERATIONS AND MAINTENANCE

AT MECHANICAL TURN OVER, THIS CONTRACTOR SHALL PERFORM A DETAILED OPERATIONAL WALK THROUGH OF ALL SYSTEMS AND EQUIPMENT SHOWN IN THE MECHANICAL DRAWINGS. THE WALK THROUGH SHALL INCLUDE ONE HOUR OF TRAINING AND REQUIRED MAINTENANCE FOR EACH TYPE OF EQUIPMENT AND TWO HOURS FOR THE TEMPERATURE CONTROLS OF THE BUILDING. THE MECHANICAL CONTRACTOR SHALL PROVIDE A SHEET LISTING EACH TYPE OF EQUIPMENT. IT SHALL BE SIGNED, LINE BY LINE, BY THE CLIENT INDICATING THAT THEY HAVE RECEIVED INSTRUCTION ON THE OPERATIONS AND MAINTENANCE OF THE EQUIPMENT. ADDITIONALLY, A CHECK BOX WILL ASK THE CLIENT IF THEY WISH TO HAVE THE MECHANICAL CONTRACTOR PROVIDE A QUOTE FOR MAINTENANCE FOR EACH OF THE ITEMS OR IF THEY WILL TAKE CARE OF IT ON THEIR OWN, WITH THE CLIENT'S INITIALS. A COMPLETED COPY OF THIS FORM SHALL BE INCLUDED IN THE O & M MANUALS AND SUBMITTED TO THE ENGINEER.

## GENERAL PLUMBING NOTES

- 1 THE PLUMBING DESIGN IS BASED ON THE 2021 INTERNATIONAL PLUMBING CODE. PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND LOCAL CODE AMENDMENTS. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
- 2 WASTE AND VENT PIPING BELOW SLAB SHALL BE: > SCHEDULE 40, DWV, PLASTIC PIPE AND FITTINGS.
- 3 WASTE AND VENT PIPING ABOVE SLAB (NOT IN RETURN AIR PLENUM) SHALL BE: > SCHEDULE 40, DWV, PLASTIC PIPE AND FITTINGS.
- 4 WASTE AND VENT PIPING ABOVE SLAB (IN RETURN AIR PLENUM) SHALL BE SERVICE-WEIGHT, HUB-LESS, CAST IRON. FITTINGS SHALL BE CAST IRON AND CONNECTED USING NO-HUB FASTENERS WITH STAINLESS STEEL WORM CLAMPS.
- 5 POTABLE WATER PIPING BELOW GRADE SHALL BE TYPE K, SOFT DRAWN, COPPER WITHOUT JOINTS.
- 6 POTABLE WATER PIPING 2" AND SMALLER SHALL BE PEX-A TUBING MANUFACTURED BY UPONOR/WIRSBO OR APPROVED EQUAL. FITTINGS SHALL BE EXPANSION TYPE WITH SECONDARY EXPANSION RING (NOT CRIMPED). CW SHALL BE RUN IN BLUE PIPE, HW & HWC IN RED, OTHER SYSTEMS CLEAR. PIPING SHALL BE PROPERLY SUPPORTED USING PLENUM RATED GALVANIZED TROUGHES OR CHANNELS HUNG AT MAXIMUM 8' INTERVALS. UNSUPPORTED PEX MAY NOT EXCEED 32".
- 7 POTABLE WATER PIPING ABOVE GRADE, LARGER THAN 2", SHALL BE TYPE L COPPER WITH SOLDERED COPPER FITTINGS AND NO LEAD SOLDER UNLESS NOTED OTHERWISE.
- 8 PUSH-TO-CONNECT PLUMBING FITTINGS (I.E. SHARKBITE OR SIMILAR) AND PULLED TEE FITTINGS WILL NOT BE ACCEPTED.
- 9 POTABLE WATER VALVES SHALL BE FULL PORT, BALL TYPE.
- 10 GAS PIPE 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL. FITTINGS SHALL BE MALLEABLE SCREW TYPE, OR COMPRESSION FITTED. VIEGA MEGA PRESS OR APPROVED EQUAL.
- 11 GAS PIPE 2.5" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL. FITTINGS SHALL BE EITHER WELDED OR COMPRESSION FITTED. VIEGA MEGA PRESS XL OR APPROVED EQUAL.
- 12 INSTALL UNION, GAS COCK AND FULL SIZE 6" LONG DIRT LEG FOR ALL GAS FIRED EQUIPMENT.
- 13 INSTALL FULL SIZE CONDENSATE AND TRAP FOR ALL COOLING COILS. DISCHARGE FULL SIZE DRAIN TO MOP SINK OR LAVATORY P-TRAP TAILPIECE AND TO ROOF FOR ROOFTOP UNITS.
- 14 FURNISH AND INSTALL WATTS 9DM2 0.75" BACKFLOW PREVENTION DEVICE FOR ICE MACHINES. INSTALL 0.75" DRAIN AND TERMINATE TO FLOOR SINK WITH FULL AIR GAP.
- 15 FURNISH AND INSTALL WATTS SD-3 LEAD FREE DUAL CHECK BACKFLOW PREVENTION DEVICE WITH AIR GAP FOR CARBONATOR AND SODA SYSTEM.
- 16 FURNISH AND INSTALL WATTS SD-3 LEAD FREE DUAL CHECK BACKFLOW PREVENTION DEVICE WITH AIR GAP FOR COFFEE URN AND TEA DISPENSERS.
- 17 REFERENCE KITCHEN DRAWINGS FOR PLUMBING REQUIREMENTS.
- 18 HANGING, ANCHORING AND SUPPORT OF EQUIPMENT, PIPING AND ACCESSORIES IS DESIGN BUILD BY THE PC. THE SUPPORTS SHALL MEET CODE.
- 19 ALWAYS INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 20 PRIOR TO BUILDING TURNOVER, THE POTABLE WATER SYSTEM SHALL BE CLEANED AND DISINFECTED PER IPC SECTION 610. THE SYSTEM SHALL BE FLUSHED, CHLORINATED AND PURGED. REPEAT UNTIL THE SYSTEM HAS BEEN PROVEN TO PASS BACTERIAL EXAMINATION. A REPORT SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION.

## INSULATION NOTES AND PLUMBING ENERGY CODE

- 1 THE PLUMBING DESIGN IS BASED ON THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE.
- 2 COMMERCIAL POTABLE HOT WATER PIPING, ≤ 140 DEG F, SHALL BE INSULATED USING FIBERGLASS INSULATION, WITH ALL SERVICE JACKET, HAVING MAXIMUM 'K' FACTOR OF 0.27. INSULATION THICKNESS SHALL BE:
  - 1" FOR 1.5" PIPE AND SMALLER
  - 1.5" FOR PIPES LARGER THAN 1.5"
- 3 COMMERCIAL POTABLE HOT WATER RECIRCULATION PIPING, ≤ 140 DEG F, SHALL BE INSULATED USING FIBERGLASS INSULATION, WITH ALL SERVICE JACKET, HAVING MAXIMUM 'K' FACTOR OF 0.27. INSULATION THICKNESS SHALL BE:
  - 1" FOR 1.5" PIPE AND SMALLER
  - 1.5" FOR PIPES LARGER THAN 1.5"
- 4 COMMERCIAL POTABLE COLD WATER PIPING SHALL BE INSULATED USING FIBERGLASS INSULATION WITH ALL SERVICE JACKET HAVING MAXIMUM 'K' FACTOR OF 0.27. INSULATION THICKNESS SHALL BE 0.5". DO NOT REMOVE THIS ITEM FROM THE PROJECT AS IT IS REQUIRED FOR CONDENSATE CONTROL.

## PLUMBING LEGEND:

CW	COLD WATER PIPING	BALL VALVE
HW	HOT WATER PIPING	GATE VALVE
HWC	HOT WATER CIRC PIPING	GAS COCK
TW	TEMPERED WATER PIPING	PRESS. RED. VALVE
140	140° WATER PIPING	T & P RELIEF VALVE
180	180° WATER PIPING	SOLENOID VALVE
V	VENT PIPING	BALANCE VALVE
W	WASTE PIPING	CHECK VALVE
GW	GREASE WASTE PIPING	UNION
SOW	SAND/OIL WASTE PIPING	PIPE CAP
RD	ROOF DRAIN PIPING	PIPE CONTINUATION
ORD	OVERFLOW ROOF DRAIN	ROOF DRAIN
CD	CONDENSATE PIPING	FLOOR/GRADE CLEANOUT
G	NATURAL GAS PIPING	FLOOR DRAIN/SINK
F	FIRE PIPING	WALL CLEANOUT
LP	PROPANE PIPING	PIPE ON THIS LEVEL (SOLID)
VAC	VACUUM PIPING	PIPE ABOVE/BELOW THIS LEVEL (DASHED)
	PIPE ELBOW DOWN	PIPE TO BE REMOVED
	PIPE ELBOW UP	I.E. INVERT ELEVATION
	PIPE TEE UP	(N) NEW
	PIPE TEE DOWN	(E) EXISTING
		(R) RELOCATE

## PLUMBING DRAWING INDEX

SHEET NUMBER	SHEET NAME
PO.1	PLUMBING NOTES, LEGEND, INDEX
P1.1	PLUMBING DEMO PLAN
P2.1	PLUMBING FLOOR PLAN
P2.2	PLUMBING ROOF PLAN
P3.1	PLUMBING ENLARGED PLANS W & V
P3.2	PLUMBING ENLARGED PLANS WATER
P7.1	PLUMBING DETAILS
P8.1	PLUMBING SCHEDULES

PROJECT NUMBER: 00-000

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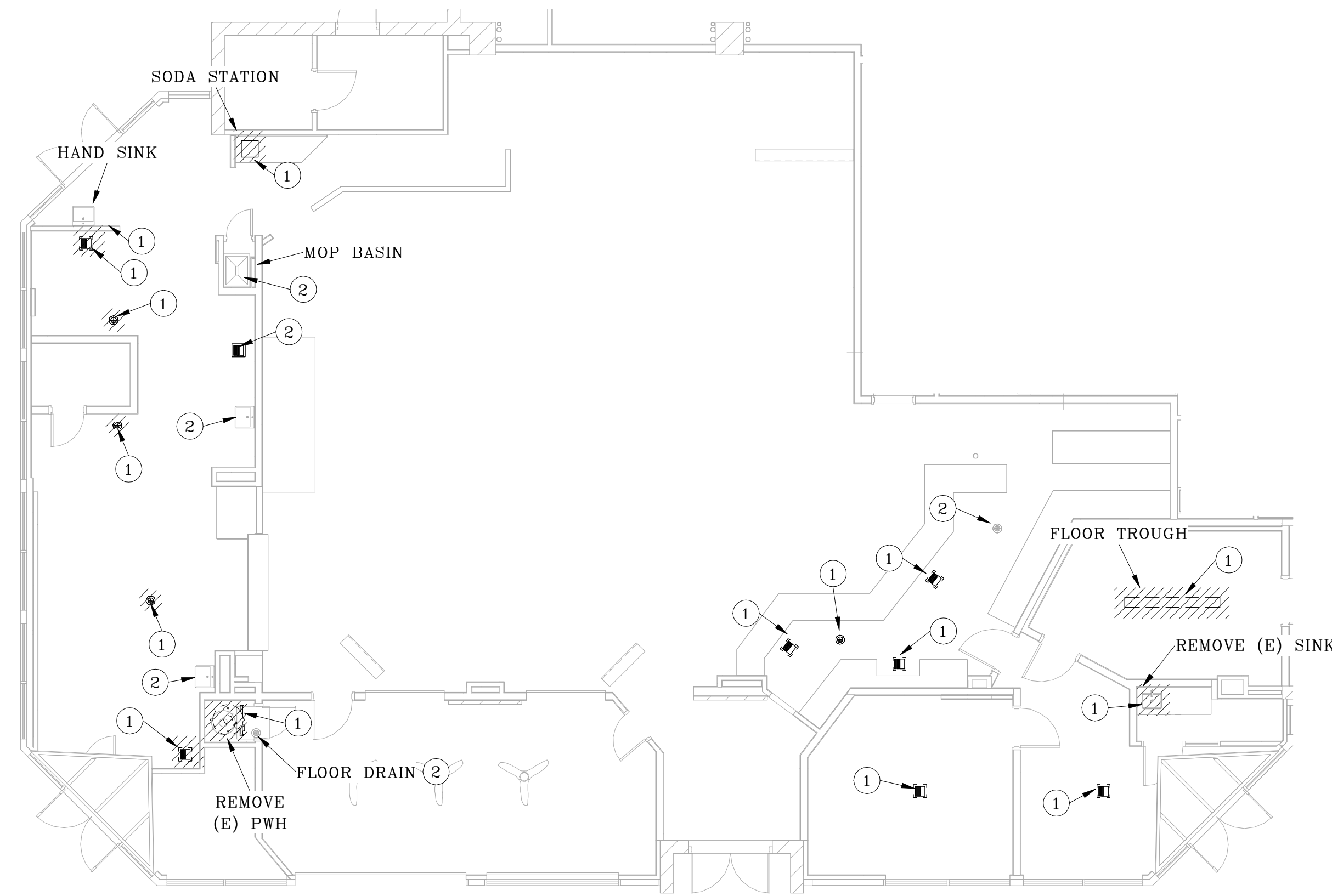
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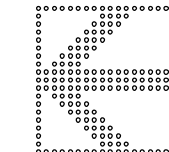
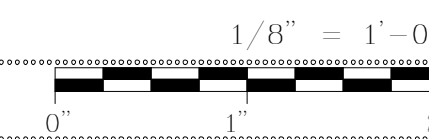
# PO.1

**FLAG NOTES:**

- 1 DEMO EXISTING FIXTURE. CAP REMAINING PIPING BELOW FLOOR AND WALL AS NEEDED.
- 2 EXISTING PLUMBING FIXTURE TO REMAIN.



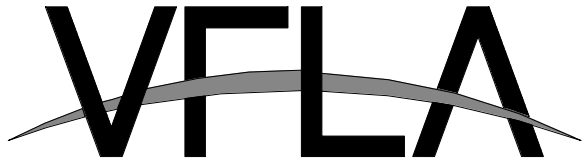
PLUMBING DEMO  
PLAN



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Revisions		
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**PLUMBING DEMO  
PLAN**

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**P1.1**

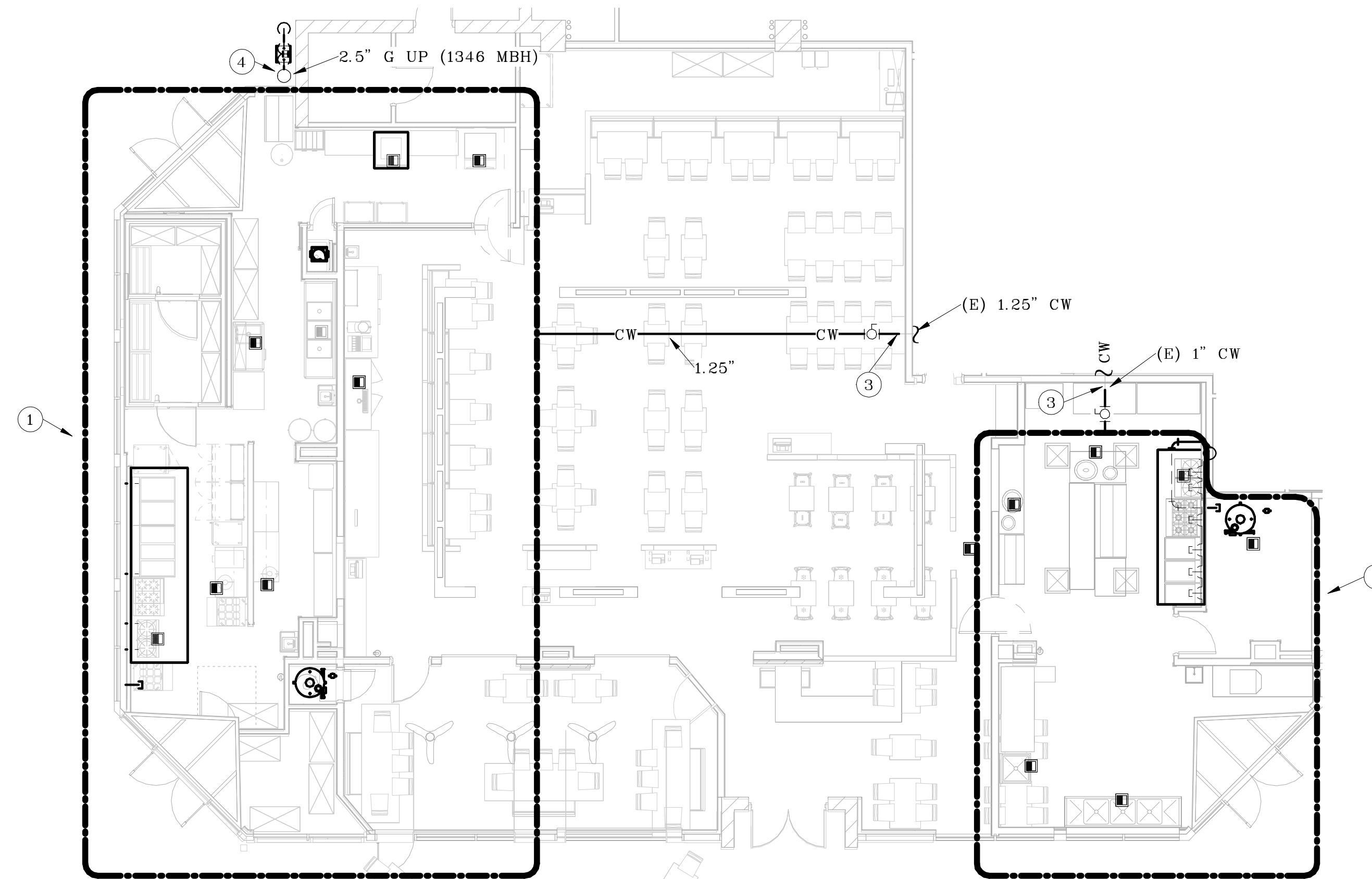
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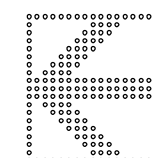
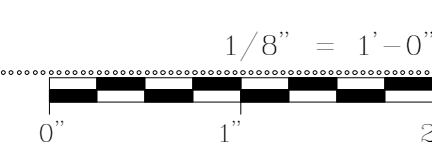
THE EXISTING POTABLE WATER PIPING HAS BEEN DAMAGED DURING PREVIOUS REMODELS AND IS CONSIDERED UNRELIABLE. IT ALSO IS NOT SIZED FOR THE NEW EQUIPMENT LAYOUT. DEMO ALL EXISTING POTABLE WATER SYSTEMS AND PROVIDE NEW AS SHOWN.

FLAG NOTES:

- 1 SEE "NORTH KITCHEN PLUMBING PLAN" SHEET P3.1.
- 2 SEE "SOUTH KITCHEN PLUMBING PLAN" SHEET P3.1.
- 3 CONNECT NEW TO EXISTING.
- 4 EXISTING GAS PIPING SYSTEMS TO REMAIN. RUN NEW 2.5" G DIRECTLY OFF GAS HEADER.



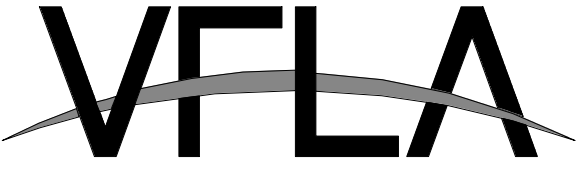
PLUMBING FLOOR PLAN



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2	PERMIT SET	11 OCT 2024
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PLUMBING FLOOR PLAN

DRAWING NUMBER:

P2.1

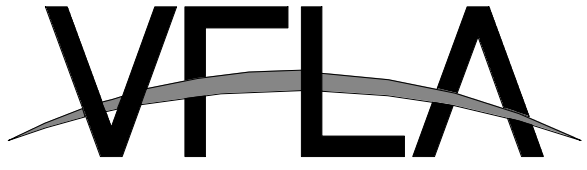
FLAG NOTES:

- CONNECT TO EQUIPMENT USING GAS VALVE, UNION AND 6" DIRT LEG.

PROJECT NUMBER: 00-000

**BONCHON &  
BROWN  
DONKATSU**

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524



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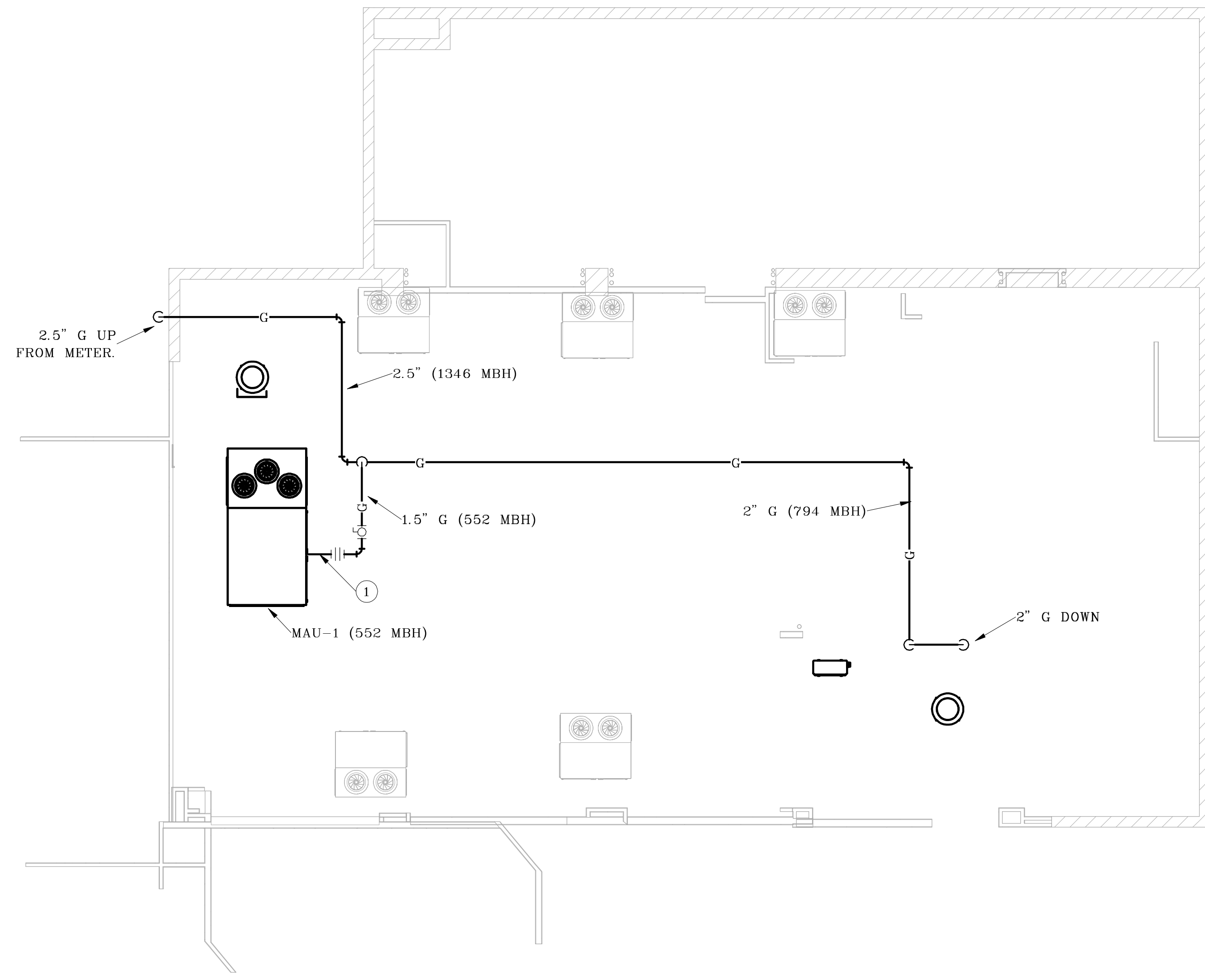
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**PLUMBING ROOF  
PLAN**

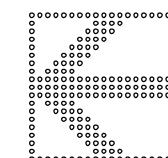
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**P2.2**



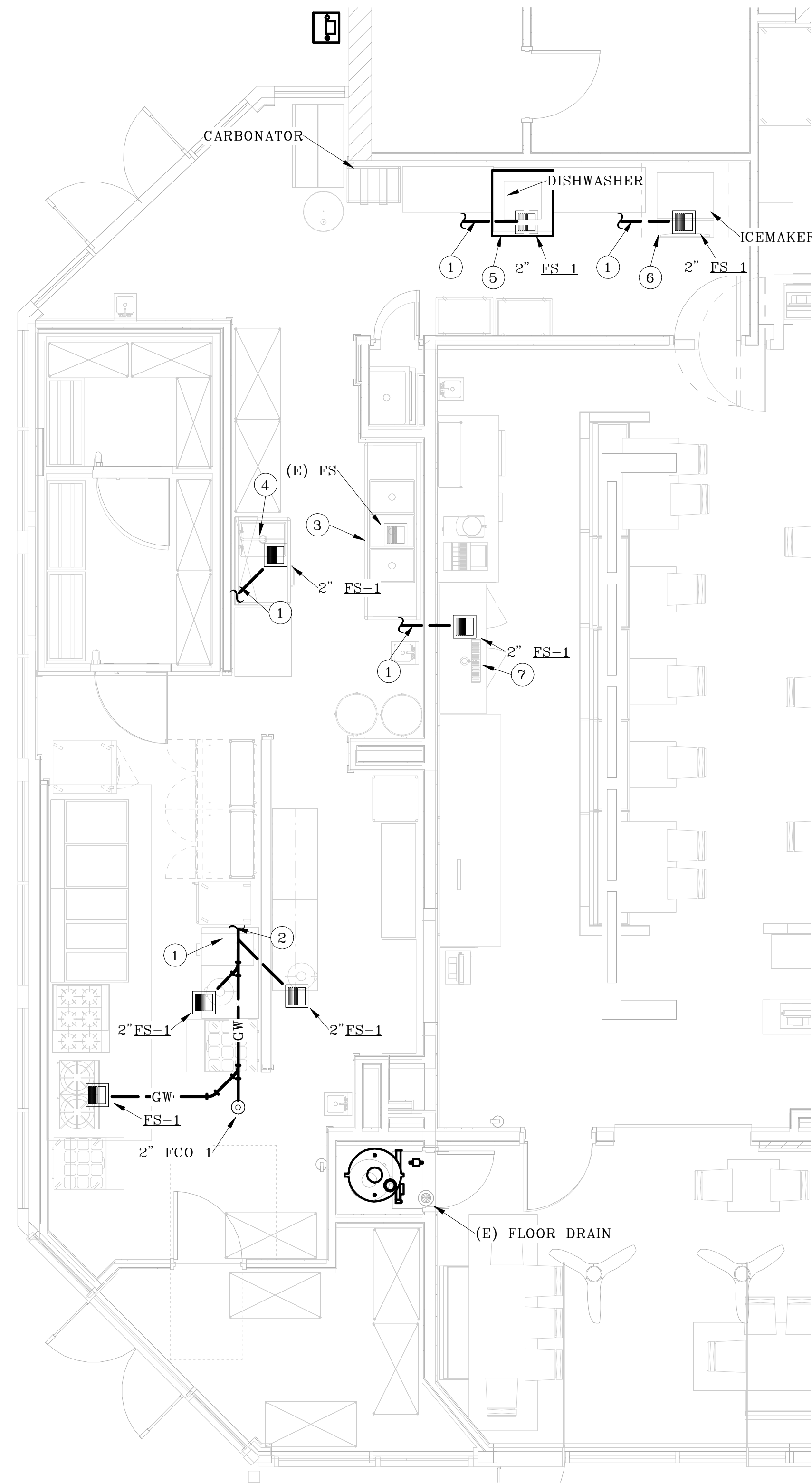
PLUMBING ROOF  
PLAN

1/8" = 1'-0"  
0 1 2'

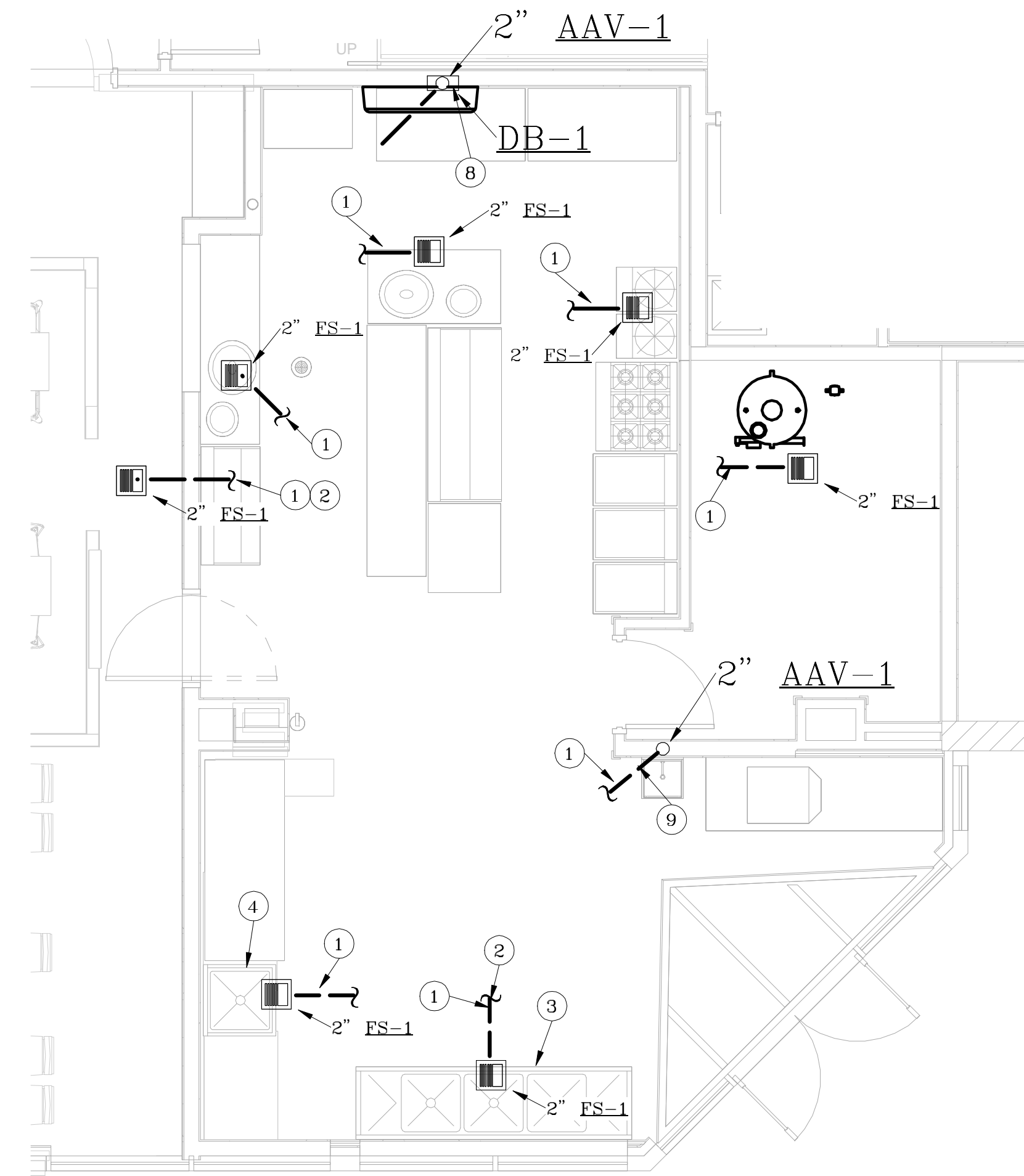




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NORTH KITCHEN  
W & V PLAN



SOUTH KITCHEN  
W & V PLAN

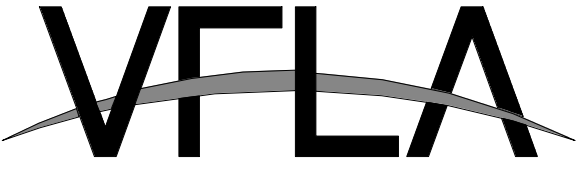
FLAG NOTES:

- 1 TIE NEW DRAIN INTO THE EXISTING WASTE SYSTEM. VERIFY CONNECTION LOCATION PRIOR TO ANY WORK. FLOOR SAW-CUT AND PATCH BY OTHERS.
- 2 PRIOR TO ANY NEW WORK THE ENTIRE EXISTING WASTE SYSTEM SHALL TRACED AND VIDEOED FOR DAMAGE AND ROUTING. CONFIRM THE KITCHEN DRAINS CONNECT TO EXISTING GREASE WASTE SYSTEM.
- 3 SEE "3-COMP SINK PIPING DETAIL", SHEET P7.1.
- 4 SEE "1-COMP SINK PIPING DETAIL", SHEET P7.1.
- 5 DISHWASHER SHALL BE LOW TEMPERATURE TYPE. PIPE WASTE DOWN TO FLOOR SINK. DISCHARGE 2" ABOVE SINK RIM. DISHWASHER SHALL NOT DISCHARGE WASTE TEMPERATURES HIGHER THAN 140 DEG F.
- 6 RUN DRAIN FROM ICEMAKER. PIPE WASTE DOWN TO FLOOR SINK. DISCHARGE 2" ABOVE SINK RIM.
- 7 RUN DRAIN FROM BAR STATION. PIPE WASTE DOWN TO FLOOR SINK. DISCHARGE 2" ABOVE SINK RIM.
- 8 RUN 2" W FROM DRAIN BOX WITH P-TRAP. CONTINUE DOWN WALL AND TIE INTO WASTE SYSTEM.
- 9 RUN 2" W FROM HAND SINK WITH P-TRAP. CONTINUE DOWN WALL AND TIE INTO WASTE SYSTEM.

PROJECT NUMBER: 00-000

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**PLUMBING ENLARGED PLANS W & V**

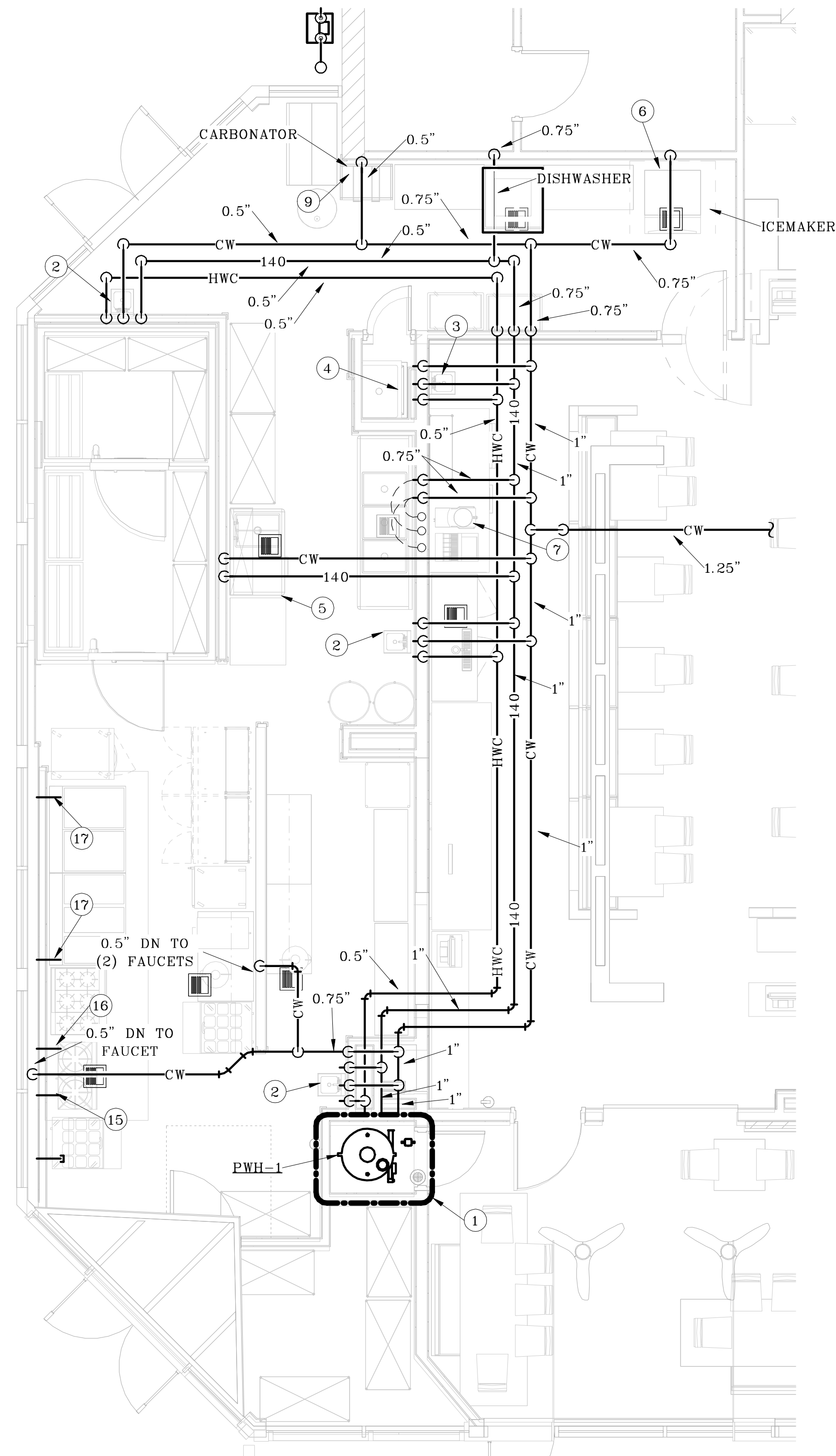
DRAWING NUMBER:

**P3.1**

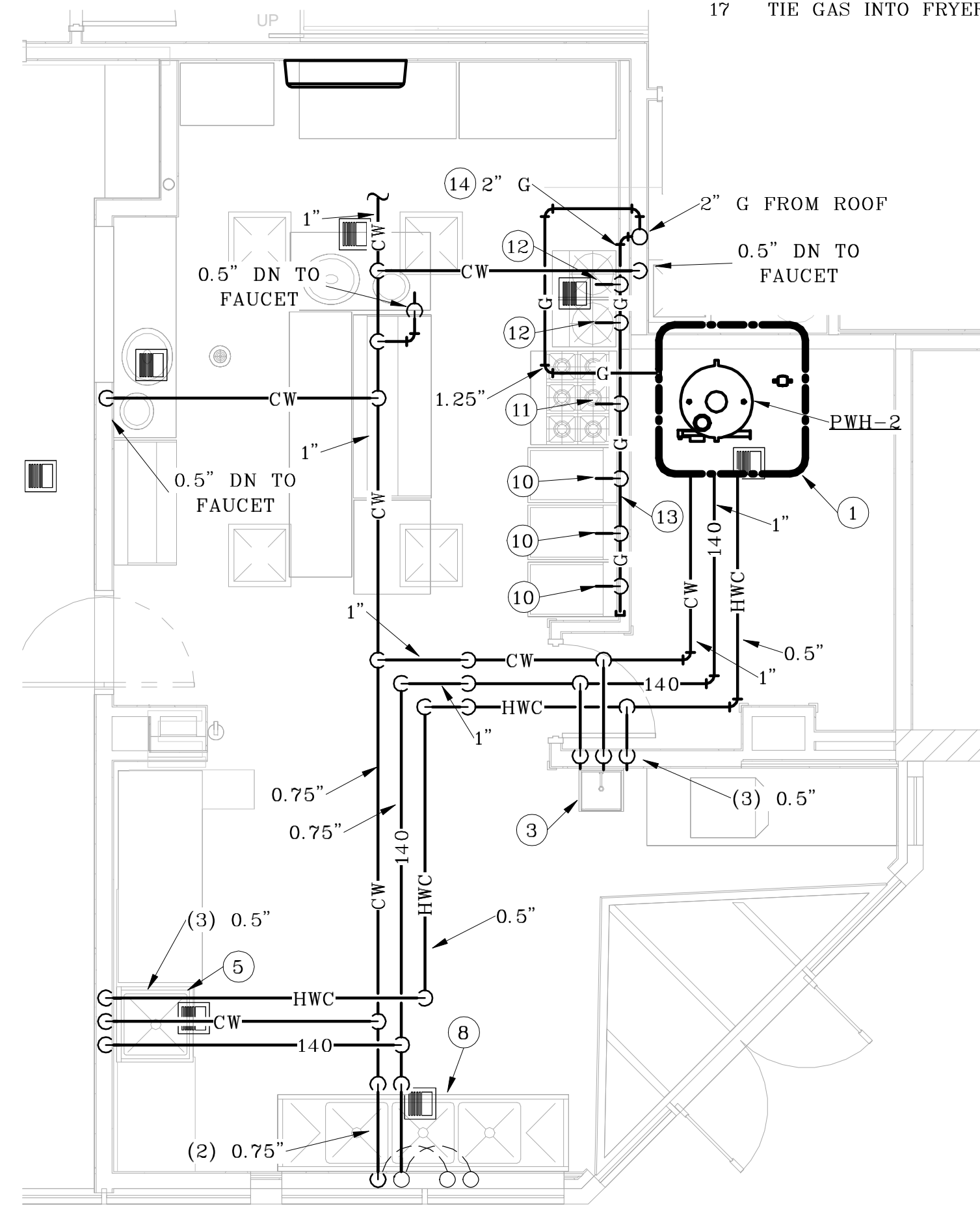
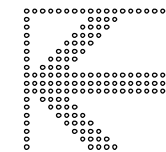
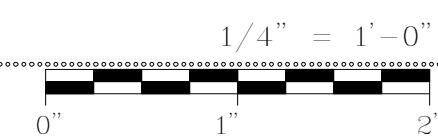
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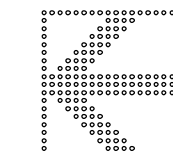
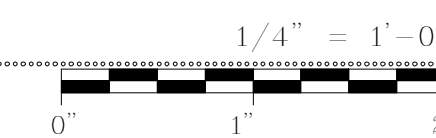
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NORTH KITCHEN  
WATER PLAN



SOUTH KITCHEN  
WATER PLAN



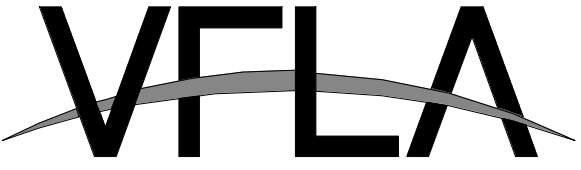
FLAG NOTES:

- 1 SEE "POTABLE WATER HEATER DETAIL", SHEET P7.1.
- 2 EXISTING HAND SINK TO BE REUSED, BUT SHALL BE REPIPED. SEE "LAVATORY PIPING DETAIL", SHEET P7.1. PROVIDE WITH NEW TMV-1.
- 3 NEW HAND SINK PROVIDED BY KITCHEN EQUIPMENT PROVIDER. SEE "LAVATORY PIPING DETAIL", SHEET P7.1. PROVIDE WITH NEW TMV-1.
- 4 RECONNECT PIPING TO MOP SINK FAUCET.
- 5 NEW SINK PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.
- 6 PIPE ICE MAKER WITH BACKFLOW PREVENTOR AS NOTED IN PLUMBING GENERAL NOTES.
- 7 PIPE COFFEE MAKER WITH BACKFLOW PREVENTOR AS NOTED IN PLUMBING GENERAL NOTES.
- 8 SEE "3-COMP SINK PIPING DETAIL", SHEET P7.1.
- 9 PIPE CARBONATOR WITH BACKFLOW PREVENTOR AS NOTED IN PLUMBING GENERAL NOTES.
- 10 1" G TO FRYER, 90 MBH, WITH GAS VALVE AND FLEX CONNECTOR (NOT SHOWN).
- 11 1.25" G TO 6 BURNER STOVE, 210 MBH, WITH GAS VALVE AND FLEX CONNECTOR (NOT SHOWN).
- 12 1" G TO STOCK RANGE, 80 MBH, WITH GAS VALVE AND FLEX CONNECTOR (NOT SHOWN).
- 13 ALL GAS PIPING AND FITTING SHALL BE CONCEALED WITHIN WALL. ONLY THE BRANCH TO EACH INDIVIDUAL APPLIANCE MAY BE EXPOSED. THE BRANCH SHALL CONTAIN AN INDIVIDUAL SHUT-OFF VALVE. THE ENTIRE HEADER SHALL BE 2" AT 595 MBH.
- 14 PROVIDE AND INSTALL EMERGENCY GAS SHUT-OFF VALVE ON GAS HEADER (NOT SHOWN).
- 15 TIE GAS INTO STOCK POT RANGE WITH GAS VALVE, TYP (2).
- 16 TIE GAS INTO 6 BURNER RANGE WITH GAS VALVE.
- 17 TIE GAS INTO FRYER WITH GAS VALVE.

PROJECT NUMBER: 00-000

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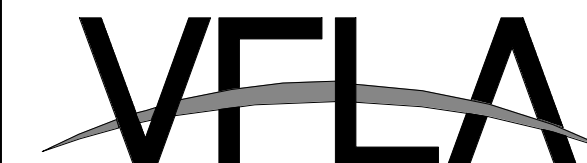
**PLUMBING ENLARGED  
PLANS WATER**

DRAWING NUMBER:

**P3.2**

# BONCHON & BROWN DONKATSU

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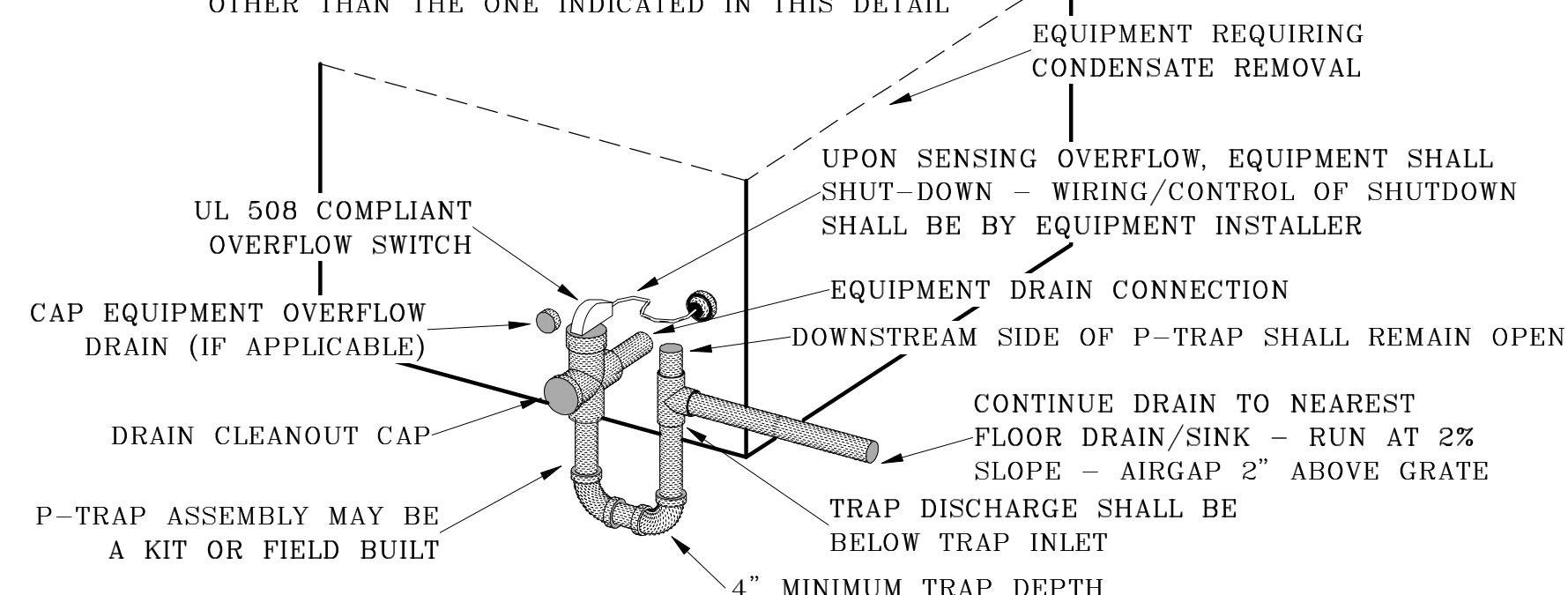
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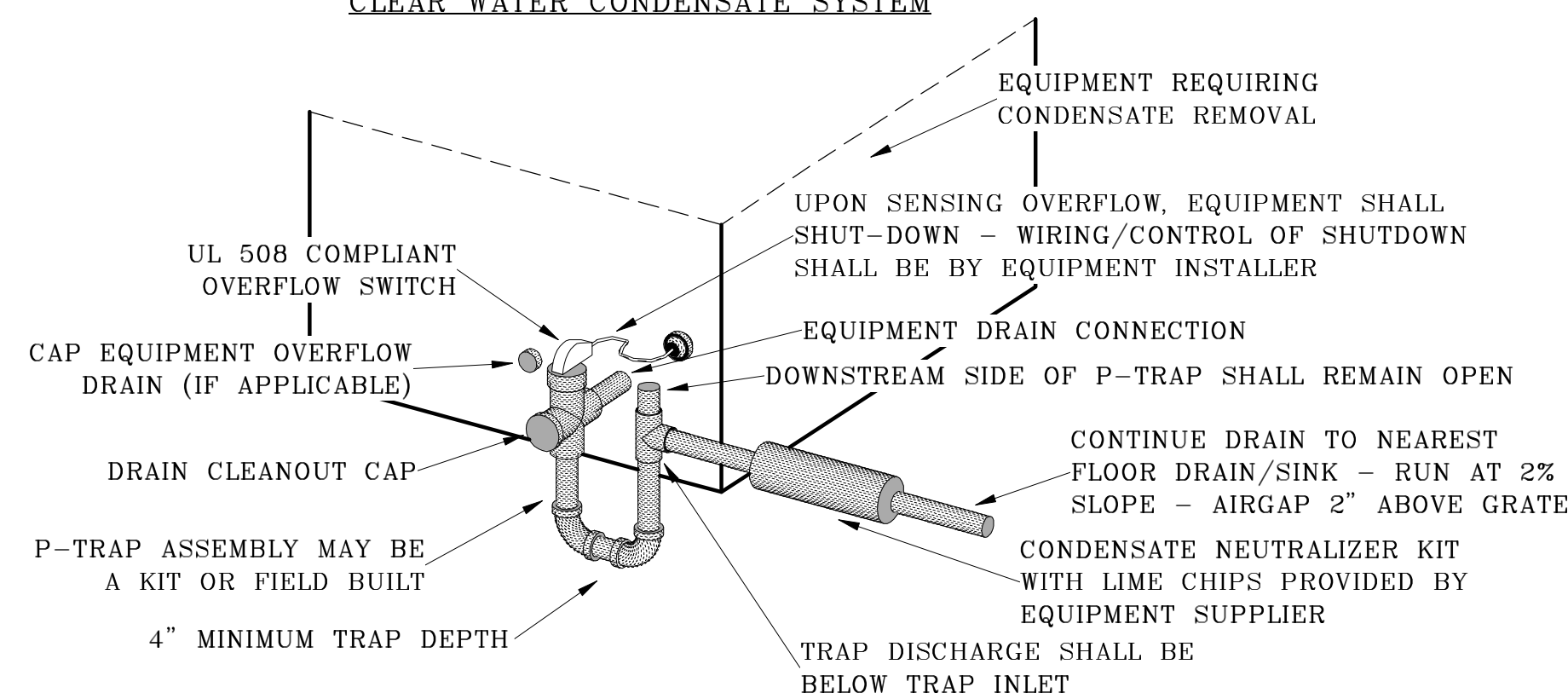
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NOTE:  
 □ ONLY RIGID PVC OR CPVC DWV IS ACCEPTABLE FOR DRAINAGE PIPING. IF SYSTEM IS WITHIN A PLENUM THEN USE TYPE M COPPER AND FITTINGS.  
 □ FLEXIBLE PIPE IS NOT PERMITTED  
 □ DO NOT ADD ANY ADDITIONAL TRAPS IN THE CONDENSATE LINE OTHER THAN THE ONE INDICATED IN THIS DETAIL.



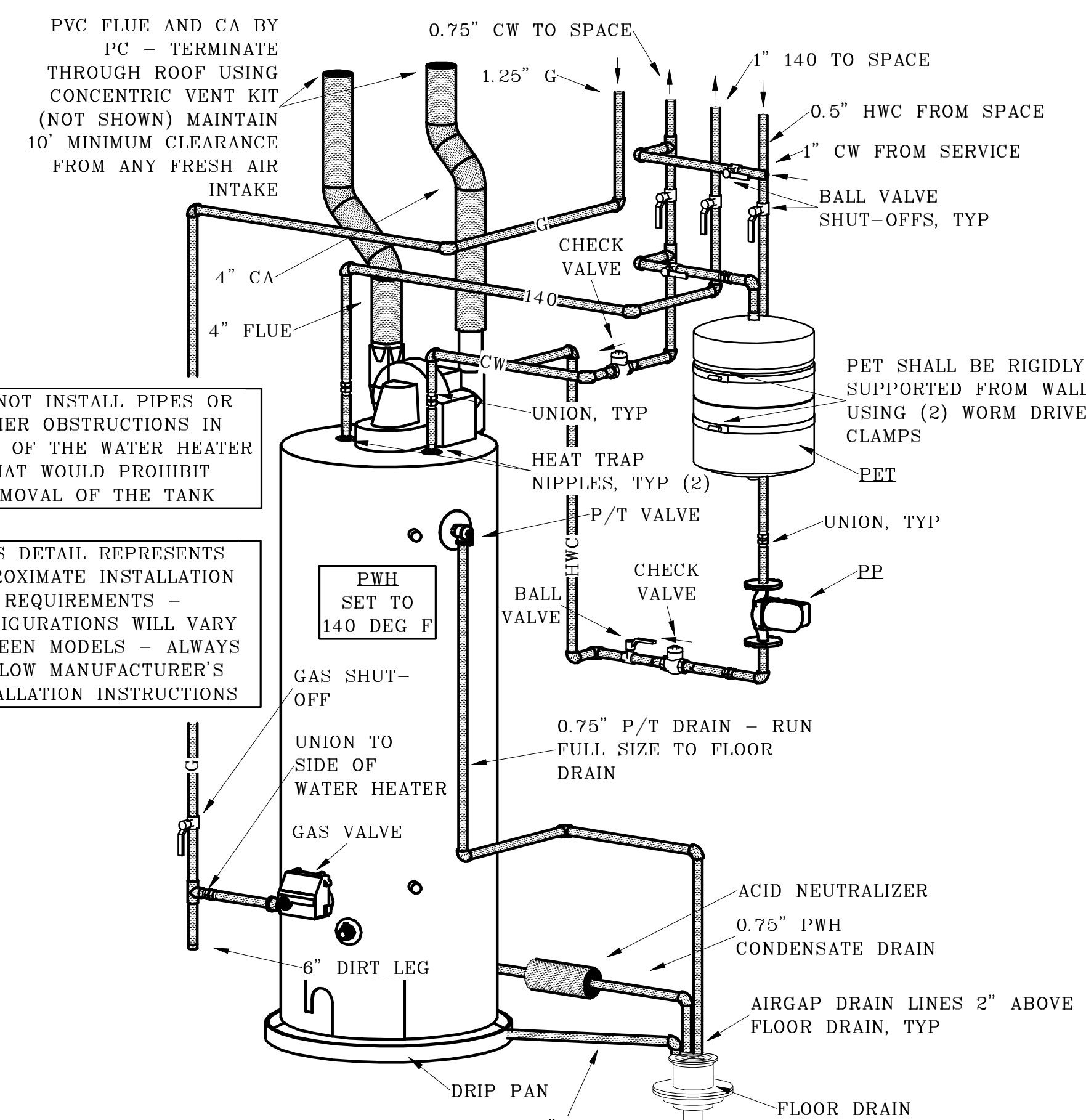
CLEAR WATER CONDENSATE SYSTEM



FLUE GAS CONDENSATE SYSTEM

### CONDENSATE DRAIN DETAIL

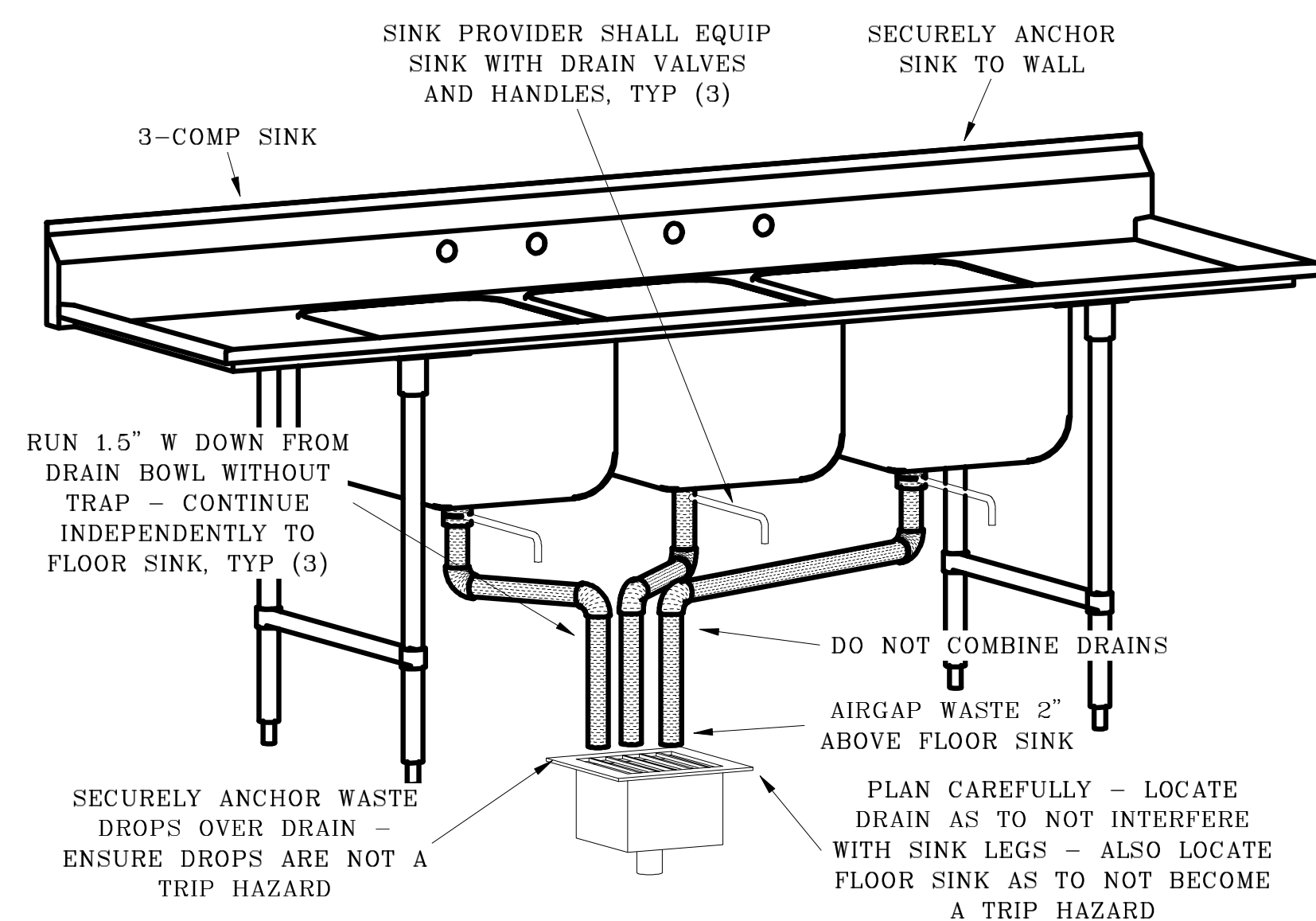
SCALE: N/A



### POTABLE WATER HEATER DETAIL

SCALE: N/A

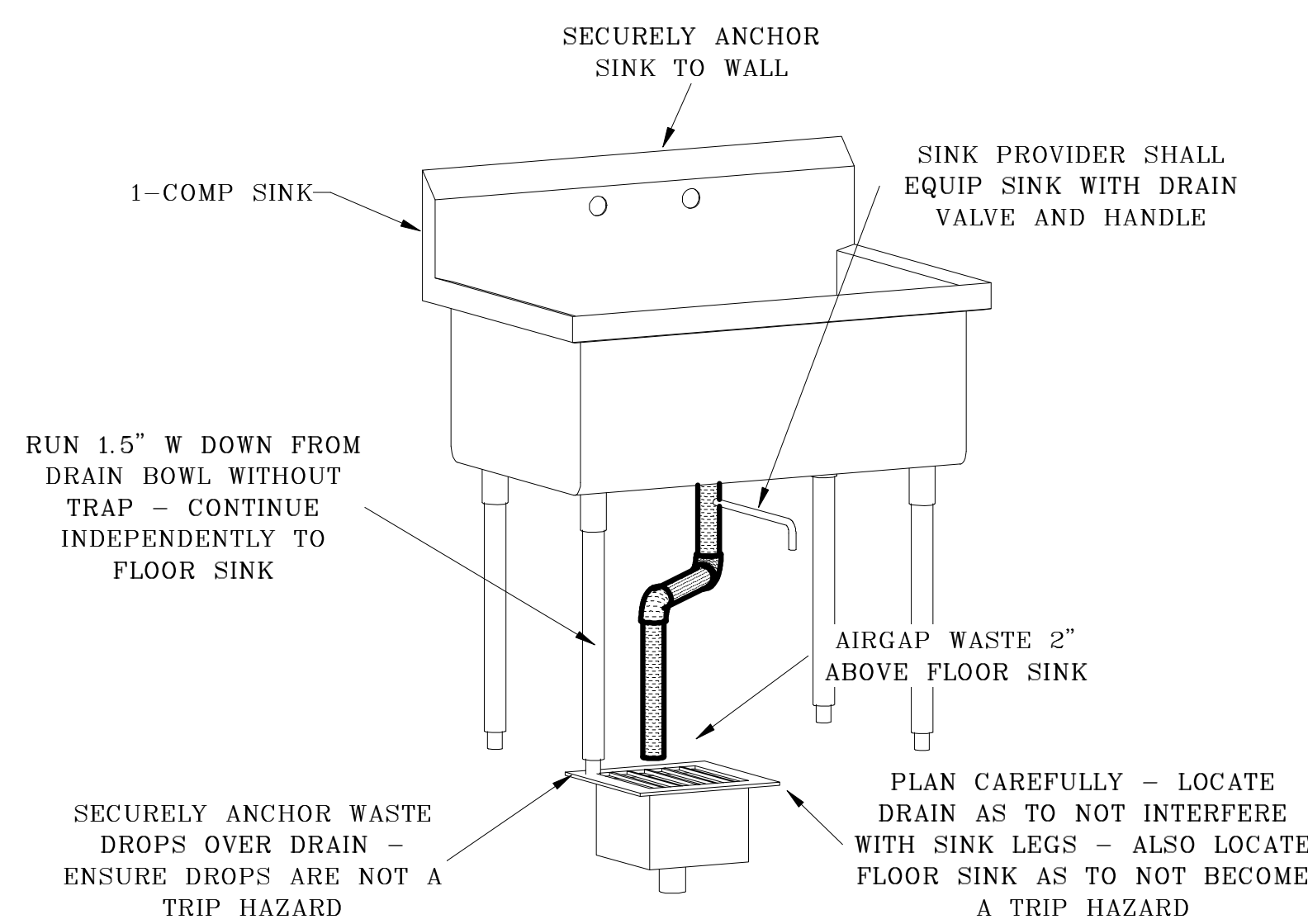
DETAIL REPRESENTS APPROXIMATE REQUIREMENTS - SLIGHT FIELD MODIFICATIONS MAY BE REQUIRED



### 3-COMP SINK PIPING DETAIL

SCALE: N/A

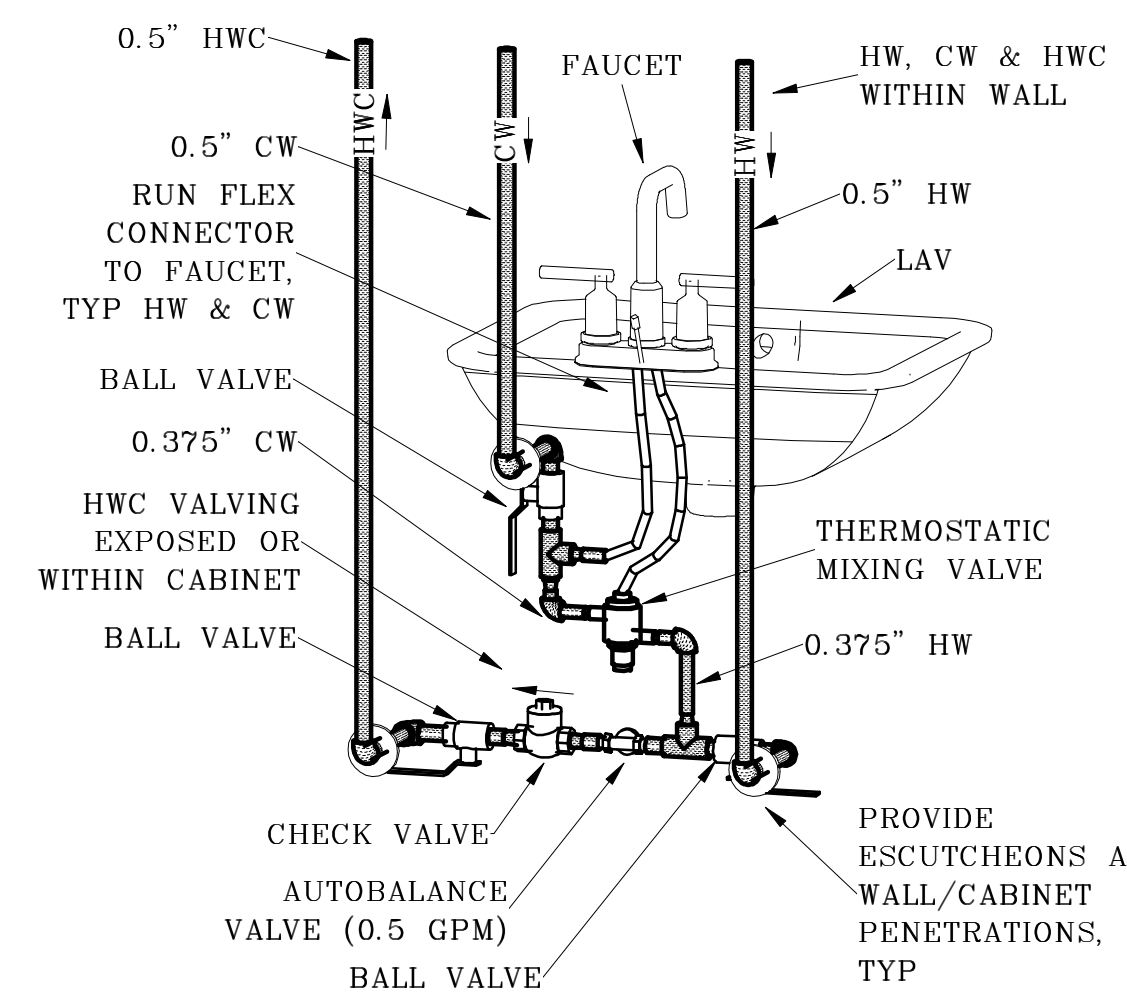
DETAIL REPRESENTS APPROXIMATE REQUIREMENTS - SLIGHT FIELD MODIFICATIONS MAY BE REQUIRED



### 1-COMP SINK PIPING DETAIL

SCALE: N/A

DETAIL REPRESENTS APPROXIMATE REQUIREMENTS - SLIGHT FIELD MODIFICATIONS MAY BE REQUIRED - LAVATORY/FAUCET TYPE MAY VARY



### LAVATORY PIPING DETAIL

SCALE: N/A

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### PLUMBING DETAILS

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# P7.1

PLUMBING FIXTURE SCHEDULE	
FIXTURE TAG	FIXTURE SPECIFICATIONS
AAV-1	AIR ADMITTANCE VALVE - STUDOR MINI VENT 20301 ONLY (NO ALTERNATES ALLOWED), PVC, WITH SCREEN, LIFETIME WARRANTY - SEE PLAN FOR PIPE SIZE
DB-1	DRAIN BOX - OATEY MODA DRAIN BOX, 2" DRAIN, NO WATER VALVES, 1.25" TRIMPLATE, 2" AAV SURE-VENT ADAPTER, SOLID FACEPLATE - CONFIRM PIPE MATERIAL CONNECTION TYPE
FCO-1	FLOOR CLEANOUT - ZURN CO-2449, ADJUSTABLE HEIGHT PVC RISER, NICKEL BRONZE FRAME AND COVER, PVC BODY - SEE PLAN FOR SIZE
FD-1	FLOOR DRAIN • DRAIN - ZURN EZI-PV, PVC DRAIN BODY, MEMBRANE CLAMP/FLASHING COLLAR, SEEPAGE SLOTS, 5" DIAMETER NICKEL BRONZE STRAINER, ADJUSTABLE HEAD HEIGHT, CONCRETE SHIELD • TRAP SEAL PROSET OR SURE SEAL ELASTOMERIC SELF CLOSING TRAP SEAL - SEE PLAN FOR DRAIN SIZE
FS-1	FLOOR SINK • DRAIN - ZURN FD2375-H, CAST IRON BODY, ACID RESISTING PORCELAIN ENAMELED INTERIOR, SEDIMENT BUCKET, 1/2 GRATE - SEE PLAN FOR PIPE SIZE • TRAP SEAL PROSET OR SURE SEAL ELASTOMERIC SELF CLOSING TRAP SEAL - SEE PLAN FOR DRAIN SIZE
PET-1	POTABLE EXPANSION TANK - WATTS PLT-12, IN LINE, 4.5 GALLON TOTAL, 2.8 GALLON ACCEPTANCE, NSF APPROVED
PP-1	POTABLE PUMP 0 GRUNDFOS ALPHA1, 4 GPM 14 FEET HEAD, 45 W, 115/60/1 PHASE, 1.5" CONNECTIONS, STAINLESS STEEL PUMP HOUSING, COMPOSITE IMPELLER, ECM MOTOR, POTABLE USE RATED - CONTROLLED BY INTERNAL PROPORTIONAL PRESSURE CONTROL, CONSTANT PRESSURE CONTROL
TMV-1	THERMOSTATIC MIXING VALVE - LEONARD 170A-LF, 0.375" INLET AND OUTLETS, MIN 0.25 GPM, MAX 4 GPM FLOW AT 20 PSI PRESSURE DROP, BRASS BODY CONSTRUCTION, FIELD TEMPERATURE ADJUSTABILITY, CHECK STOPS, SET FOR 110° F DISCHARGE TEMPERATURE, ASSE 1070
WCO-1	WALL CLEANOUT - ZURN Z-1469 COVER PLATE, POLISHED 304 STAINLESS STEEL, PVC PIPE CLEANOUT - SEE PLAN FOR PIPE SIZE

PIPE SUPPORT SCHEDULE		
PIPING MATERIAL	MAX HORIZ SPACING	MAX VERT SPACING
ABS PLASTIC ≤ 2"	4 FEET	5 FEET
ABS PLASTIC > 2"	4 FEET	10 FEET
ALUMINUM COMPRESSED AIR	8 FEET	10 FEET
CAST-IRON < 10 FOOT SEGMENTS	5 FEET	15 FEET
CAST-IRON 10 FOOT SEGMENTS	10 FEET	15 FEET
CPVC ≤ 1"	3 FEET	5 FEET
CPVC > 1" AND ≤ 2"	4 FEET	5 FEET
CPVC > 2"	4 FEET	10 FEET
COPPER ≤ 1.25"	6 FEET	10 FEET
COPPER > 1.25"	10 FEET	10 FEET
PEX ≤ 2"	32 INCHES	5 FEET
PEX > 2"	32 INCHES	10 FEET
PVC ≤ 2"	4 FEET	5 FEET
PVC > 2"	4 FEET	10 FEET
STEEL	12 FEET	15 FEET

PWH-1.2

**ACSmith** Commercial Gas Water Heaters

**CYCLONE® Mxi MODULATING**  
MODULATING BURNER ADVANCES THE CYCLONE TO HIGHER LEVELS OF EFFICIENCY

The full line of A. O. Smith Cyclone Mxi condensing water heaters has been designed to provide years of dependable service and feature industry leading technology. Models are available from 120,000 to 500,000 Btu/h and all deliver thermal efficiencies of 95% and higher. The unique helical coil heat exchanger limits weld joints for optimal service life while maximizing heat transfer. Cyclone is the industry leader in high efficiency commercial water heating. The current Mxi modulating models adjust firing rate to the specific demand further increasing efficiency and money savings.

**INTELLIGENT CONTROL SYSTEM WITH TOUCH SCREEN DISPLAY AND ICOMM CONNECTIVITY ONBOARD\***

- Exclusive A. O. Smith designed color touch display control system
- Provides detailed water heater status information
- Precise temperature control adjustable from 90 to 180 degrees
- Built-in diagnostics
- Run history substation
- \*Cyclone Mxi models manufactured March 1, 2018 to present come standard with ICOMM Wi-Fi connectivity onboard. Remotely monitor and adjust the water heater via the A. O. Smith app. No charge connectivity using Wi-Fi or Ethernet connection.

**SUBMERGED COMBUSTION CHAMBER, WITH HELICAL HEAT EXCHANGER COIL**

- Positioned in center of tank, surrounded by water to virtually eliminate radiant heat loss from chamber
- Direct spark ignition
- Spiral heat exchanger keeps hot burner gases swirling, uses centrifugal force to maximize efficiency of heat transfer to water in tank
- Spiral heat exchanger reduces lime scale from forming on water-side surfaces, which maintains energy efficiency over time

**POWERED ANODES STANDARD ON ALL MODELS**

- Provides long-lasting tank protection in varying water conditions

**PERMAGLAS® ULTRA COAT™ GLASS LINING**

- Prevents anodes from non-sacrificial
- Automatically adjusts output needed to properly protect the tank

**MECHANICAL VENTING VERSATILITY**

- Conventional power venting or direct venting
- Vents vertically or through a sidewall
- Front located exhaust and condensate connections allow for easy install and access
- Vents with low cost PVC Schedule 40 intake and exhaust pipe. Approved for optional CPVC Schedule 40, Polypropylene and AL29-4C stainless steel vent materials
- Direct-vent intake and exhaust pipe can terminate separately outside building or through single opening, using concentric vent assembly
- Canadian installations require UL C 5636 PVC/CPVC, UL C 5638 Polypropylene and AL29-4C stainless steel pipe for intake and exhaust

**HIGH EFFICIENCY MODULATING PRE-MIX POWERED BURNER**

- Down-fired pre-mix burner provides optimum efficiency and quiet operation
- Top-mounted burner position prevents condensation from affecting burner operation

**3-YEAR LIMITED TANK / 1-YEAR LIMITED PARTS WARRANTY**

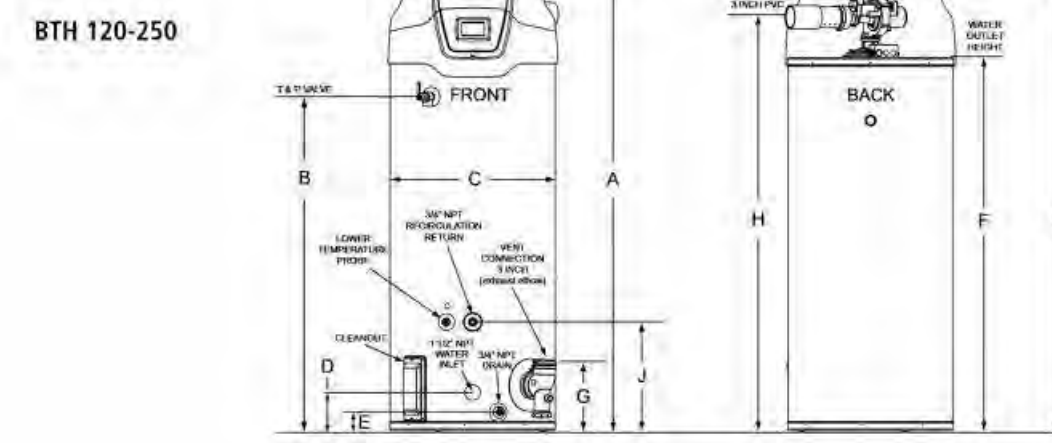
- For complete warranty information, consult written warranty or go to [hwhwater.com](http://hwhwater.com)



BTH-120(A) THROUGH BTH-500(A)  
MODEL SHOWN:  
BTH-199(A) SERIES 300/301

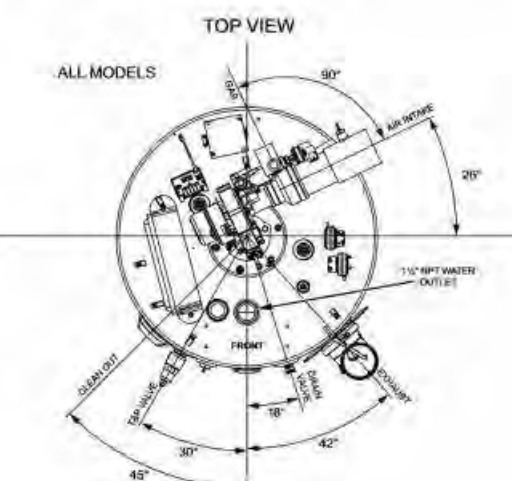


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**VENT REQUIREMENTS FOR BTH**

Number of 90° Elbows Installed	4 Inch Pipe Maximum Feet (Meters)
One (1)	115 feet (35 meters)
Two (2)	110 feet (33.5 meters)
Three (3)	105 feet (32 meters)
Four (4)	100 feet (30.5 meters)
Five (5)	95 feet (29 meters)
Six (6)	90 feet (27.4 meters)



Model Number	Approx. Capacity	Dimensions										lb/kg	Approx. Shipping Weight Std.	Approx. Shipping Weight ASME	
		A	B	C	D	E	F	G	H	I	J				
BTH-199(A)	Gallons	100	76 1/2	56 3/8	27 3/4	6 5/16	3	64	11 1/4	70	75 1/2	18 1/4	lb	523	553
	Liters	379	194.9	143.2	70.5	16	7.62	162.6	28.6	177.8	191.8	46.36	kg	237	251

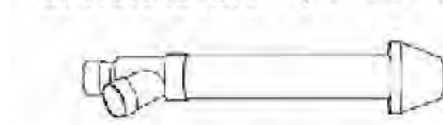
Technical characteristics: 120V 60Hz A.C., 5 0/A  
\*F in model represents ASME construction  
Pressure gas models available  
Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

**RECOVERY CAPACITY**

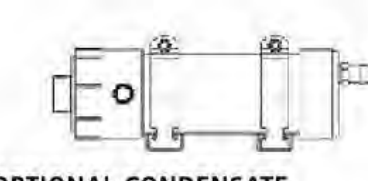
Model Number	Type of Gas	Input		Thermal Efficiency
		BTU/HR	kW	
BTH-199(A)	Natural/Propane	199,900	58	97%

Model Number	Approx. Capacity	U.S. GALLONS/HR AND LITRES/HR AT TEMPERATURE RISE INDICATED													
		°F	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F	120°F	130°F	140°F	
BTH-199(A)	100 U.S. Gal.	GPH	783	588	470	392	336	294	261	235	214	196	181	168	
	379 Liters	LPH	2965	2224	1779	1483	1271	1112	988	890	809	741	684	635	

**OPTIONAL KITS (REQUIRED)**



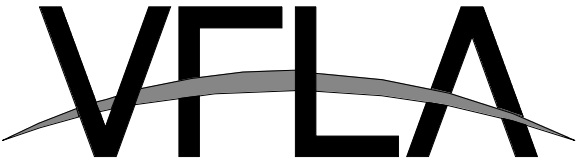
**OPTIONAL CONCENTRIC VENT KITS**  
• BTH-120 - 250 vent kit p/n 100111100



**OPTIONAL CONDENSATE NEUTRALIZATION KITS**  
• BTH-120-300 kit p/n 100289339

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**PLUMBING SCHEDULES**

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**P8.1**



**ELECTRICAL DEMOLITION NOTES**

- A: THE CONTRACTOR SHALL COMPLETELY REMOVE ALL ELECTRICAL WIRING CONDUIT, SWITCHES, DISCONNECTS, LIGHTING FIXTURES AND OTHER ASSOCIATED ITEMS AS REQUIRED FOR NEW CONSTRUCTION. REFER TO THE ARCHITECTURAL DEMOLITION PLANS SHEETS FOR THE AREAS OF DEMOLITION. A SITE INVESTIGATION BY THE CONTRACTOR SHOULD BE PERFORMED TO AID IN DETERMINING THE COMPLETE EXTENT OF WORK INVOLVED.
- B: THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL NECESSARY POWER OUTAGES WITH THE OWNERS REPRESENTATIVE PRIOR TO PROCEEDING WITH SUCH WORK TO INSURE THAT THE OPERATIONS IN ADJACENT OCCUPIED PORTIONS OF THE BUILDING ARE NOT INTERRUPTED OR RESTRICTED WITHOUT PRIOR APPROVAL.
- C: ALL EXISTING BRANCH CIRCUITS BEING REMOVED SHALL BE REMOVED AS COMPLETE AS POSSIBLE. EXISTING CONDUCTORS SHALL BE REMOVED COMPLETELY FROM THEIR RACEWAYS, DISPOSED OF AS SCRAP AND NOT REUSED. EXISTING ELECTRICAL RACEWAY AND DEVICE BACKBOXES AND DEVICES SHALL BE COMPLETELY REMOVED WHERE ACCESSIBLE, DISPOSED OF AS SCRAP, REMOVED FROM SITE AND NOT REUSED. EXISTING ELECTRICAL RACEWAYS WHERE STUBBED FROM A CONCRETE FLOOR OR WALL SHALL BE CHISELED 2 INCHES BELOW SURFACE, GROUTED AND SCREED. WHERE AN EXISTING DEVICE IS SHOWN REMOVED FROM AN EXISTING CIRCUIT, NEW WIRING SHALL BE PROVIDED AS REQUIRED TO INSURE CONTINUITY OF EXISTING CIRCUIT.
- D: ALL EXISTING LIGHT FIXTURES AND LAMPS SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. MANY OF THESE FIXTURES ARE TO BE REUSED IN NEW LOCATIONS FOR THE FIXTURES NOT TO BE REUSED THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL FOR ALL LIGHTING FIXTURES BEFORE REMOVAL FROM THE SITE (CONFIRM).
- E: ALL EXISTING SURFACE MOUNTED BACKBOXES, CONDUIT, WIREWAY, JUNCTION BOXES, ETC. SHOWN REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. ALL RECESSED BACKBOXES, JUNCTION BOXES SHOWN REMOVED SHALL BE ABANDONED IN PLACE AND COVERED WITH STAINLESS STEEL COVER PLATES. ALL RECESSED CONDUIT SHALL BE ABANDONED IN PLACE AND CAPPED OFF IN A SUITABLE MANNER PER LOCAL INSPECTORS REQUIREMENTS.
- F: ALL ELECTRICAL ITEMS TO BE REMOVED AND NOT REUSED AND NOT REUSED THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL (COORDINATE).
- G: EXISTING FIRE ALARM DEVICES TO REMAIN IN PLACE AND OPERATIONAL AS REQUIRED. IF LOCATED ON WALL TO BE DEMOED, RELOCATED AS REQUIRED.

**REFERENCE NOTES (THIS SHEET ONLY)**

- ① EXISTING LIGHT TO REMAIN, CLEAN AND RE-LAMP AS REQUIRED FOR FUNCTIONAL LIGHTING.
- ② REMOVE AND REPLACE EXISTING STRIPLIGHT WITH NEW LED SURFACE LIGHT IN THE SAME LOCATION.
- ③ REPLACE EXISTING DEVICE WITH NEW AT SAME LOCATION.
- ④ RE-USE BACKBOX AND CONDUIT WHERE POSSIBLE FOR NEW KITCHEN EQUIPMENT DEVICES.

PROJECT NUMBER: APS\_616.24

**BONCHON & BROWN  
DONKATSU**

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524



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STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
STRENGTH IN COMMUNITY

**PROJECT TEAM**

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:  
INTEGRATED MECHANICAL, LLC.

PLUMBING ENGINEER:  
INTEGRATED MECHANICAL, LLC.

ELECTRICAL ENGINEER:  
APS, INC.

**ELECTRICAL ENGINEERS**

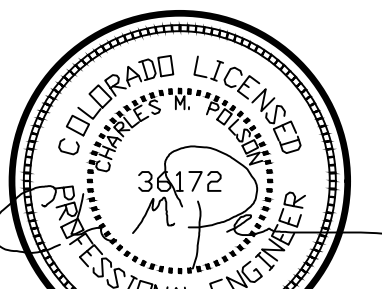


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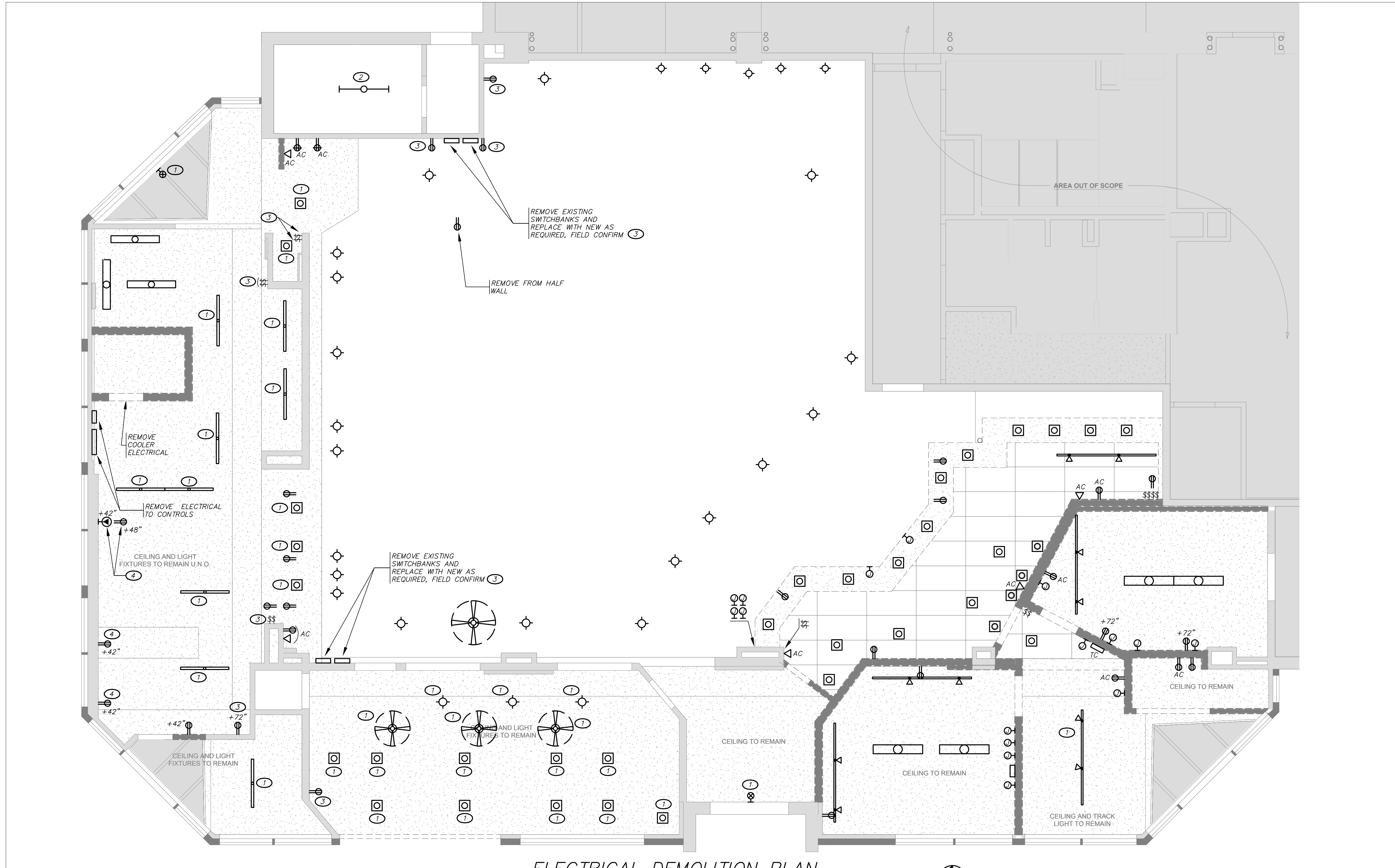
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**ELECTRICAL  
DEMOLITION  
PLAN**

DRAWING NUMBER:

**ED.1**



**ELECTRICAL DEMOLITION PLAN**

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



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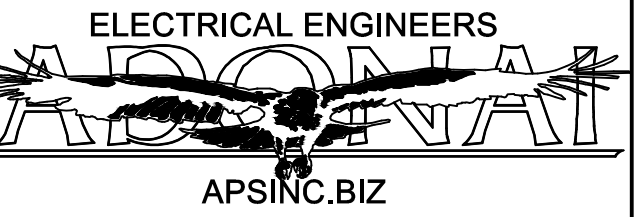
**PROJECT TEAM**

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:  
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PLUMBING ENGINEER:  
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**PERMIT SET**

SHEET ISSUANCES	DESCRIPTION	DATE
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**ELECTRICAL LIGHTING PLAN**

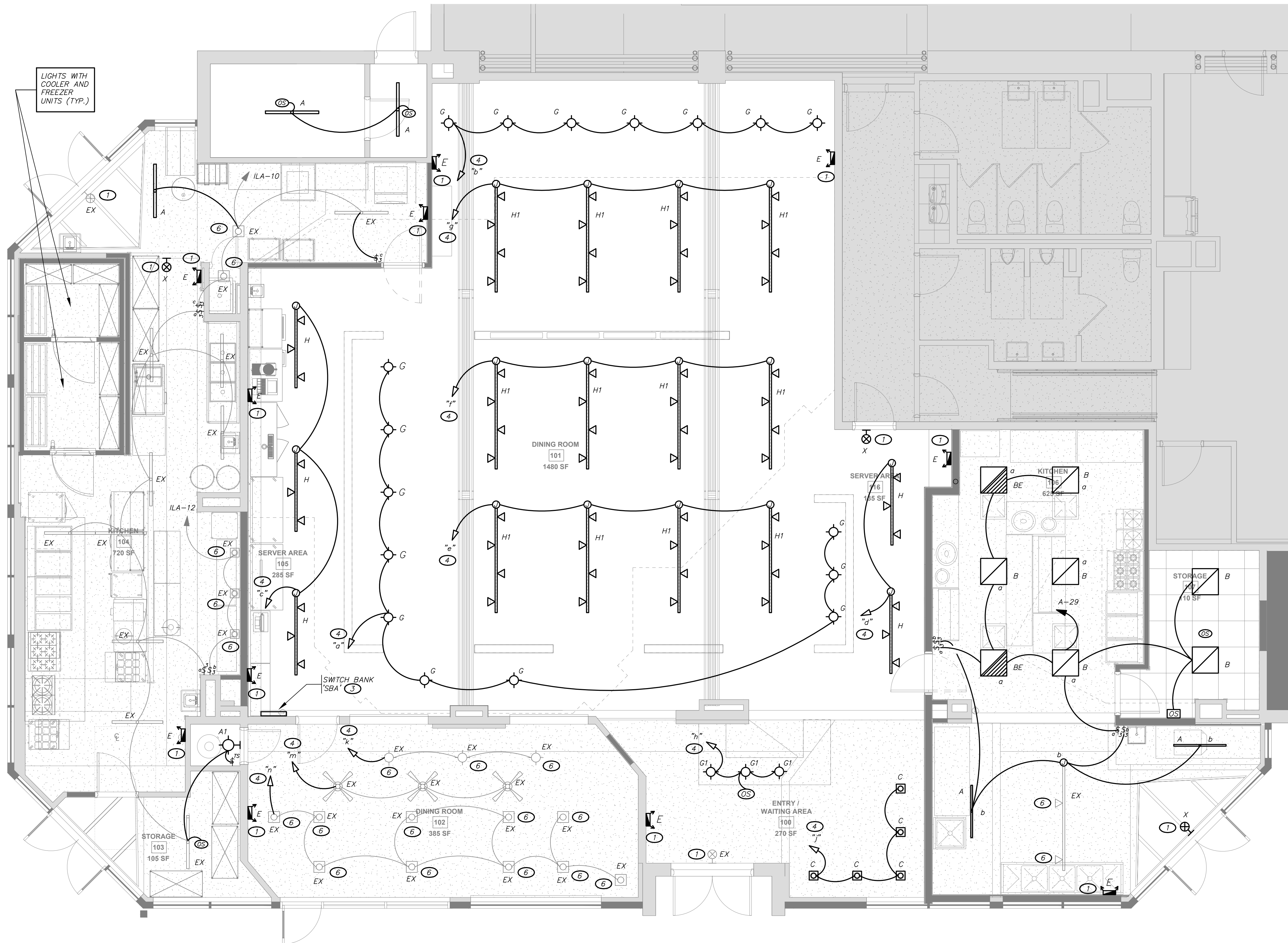
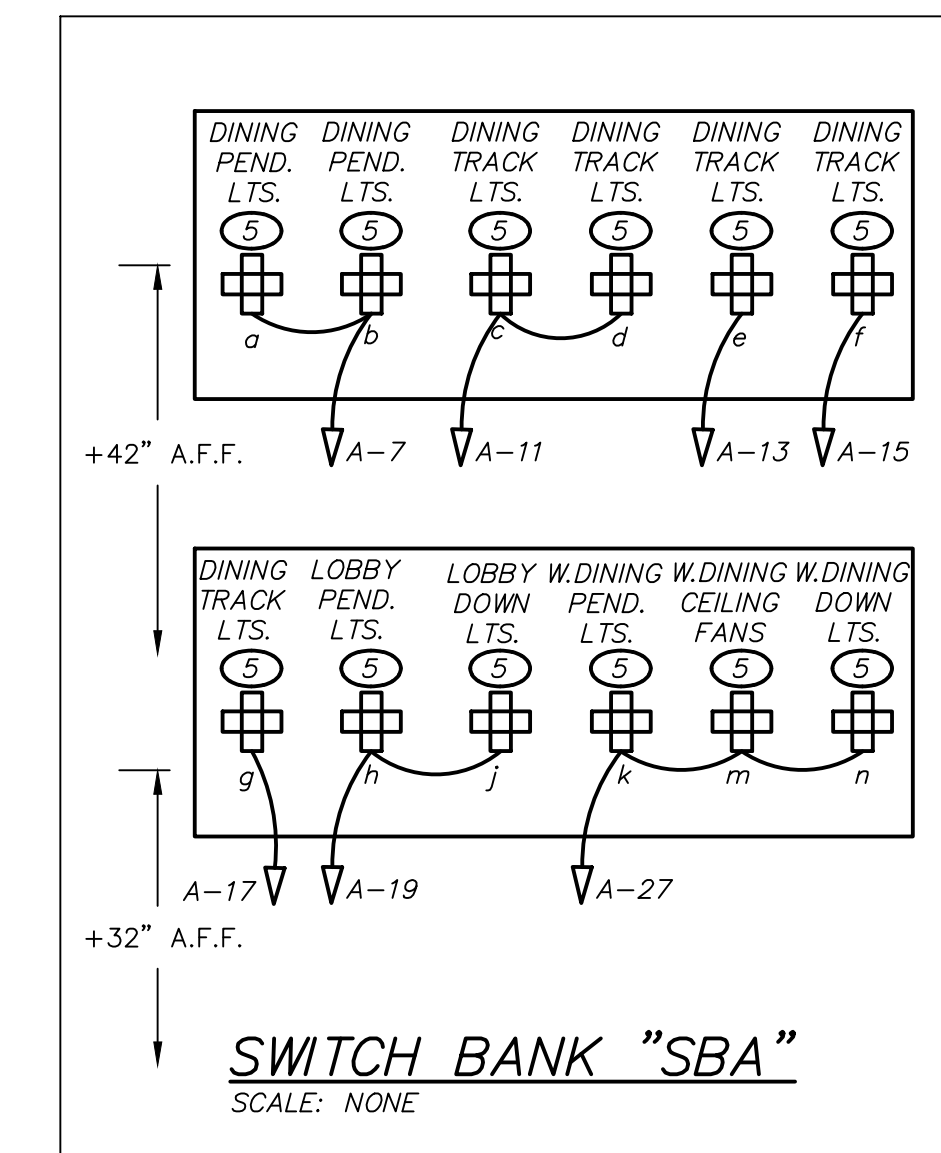
DRAWING NUMBER:

**E1.1**

**REFERENCE NOTES (THIS SHEET ONLY)**

- 1 CONNECT TO UNSWITCHED LIGHTING CIRCUIT SERVING THIS AREA, SEE SCHEDULE FOR PANEL 'A' ON SHEET E3.2.
- 2 REPLACE EXISTING LIGHTS WITH NEW LED TYPE IN SAME LOCATION, CONNECT TO EXISTING CIRCUITING.
- 3 SWITCHBANK 'SBA', SEE DETAIL THIS SHEET, CONFIRM EXACT LOCATION.
- 4 ROUTE VIA SWITCHBANK 'SBA', SEE DETAIL THIS SHEET REGARDING CONTROL AND CIRCUITING REQUIRED.
- 5 PROVIDE LINEAR SLIDE TYPE 'LED' DIMMER SWITCH COMPATIBLE WITH LAMPS TO BE CONTROLLED PER MANUFACTURER'S RECOMMENDED & APPROVED DIMMERS.
- 6 RE-LAMP WITH NEW SCREW-IN "LED" R30 TYPE IN 30K TEMPERATURE AT APPROXIMATELY 12-WATT RANGE.

- GENERAL NOTES**
- 2S OCCUPANCY SENSOR SHALL BE SENSOR SWITCH #WSX-PDT-W FOR STANDARD SWITCHING. REQUIRES NEUTRAL @ SWITCH BOX.
  - 2SD OCCUPANCY SENSOR WITH DIMMING FUNCTION SHALL BE SENSOR SWITCH #WSX-PDT-EZ-D-WH.
  - 2S2 OCCUPANCY SENSOR SHALL BE SENSOR SWITCH #WSX-PDT-2P-FAN-WH FOR DUAL-LEVEL SWITCHING. REQUIRES NEUTRAL @ SWITCH BOX.
  - 2S3 OCCUPANCY SENSOR SHALL BE SENSOR SWITCH #CMR-PDT-10.
  - 2S4 ELECTRONIC TIMER SWITCH 2-5-10-15-30-60 MINUTES. SENSOR SWITCH #PTS60-WH FOR 120-277 VOLT APPLICATIONS.
  - 2S5 POWER PACK SHALL BE SENSOR SWITCH



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

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**ELECTRICAL ENGINEERS**

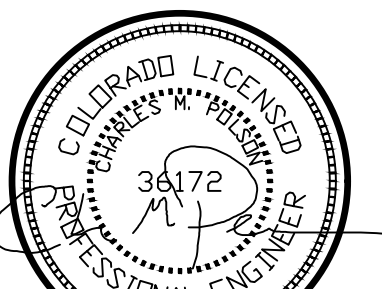


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**ELECTRICAL POWER PLAN**

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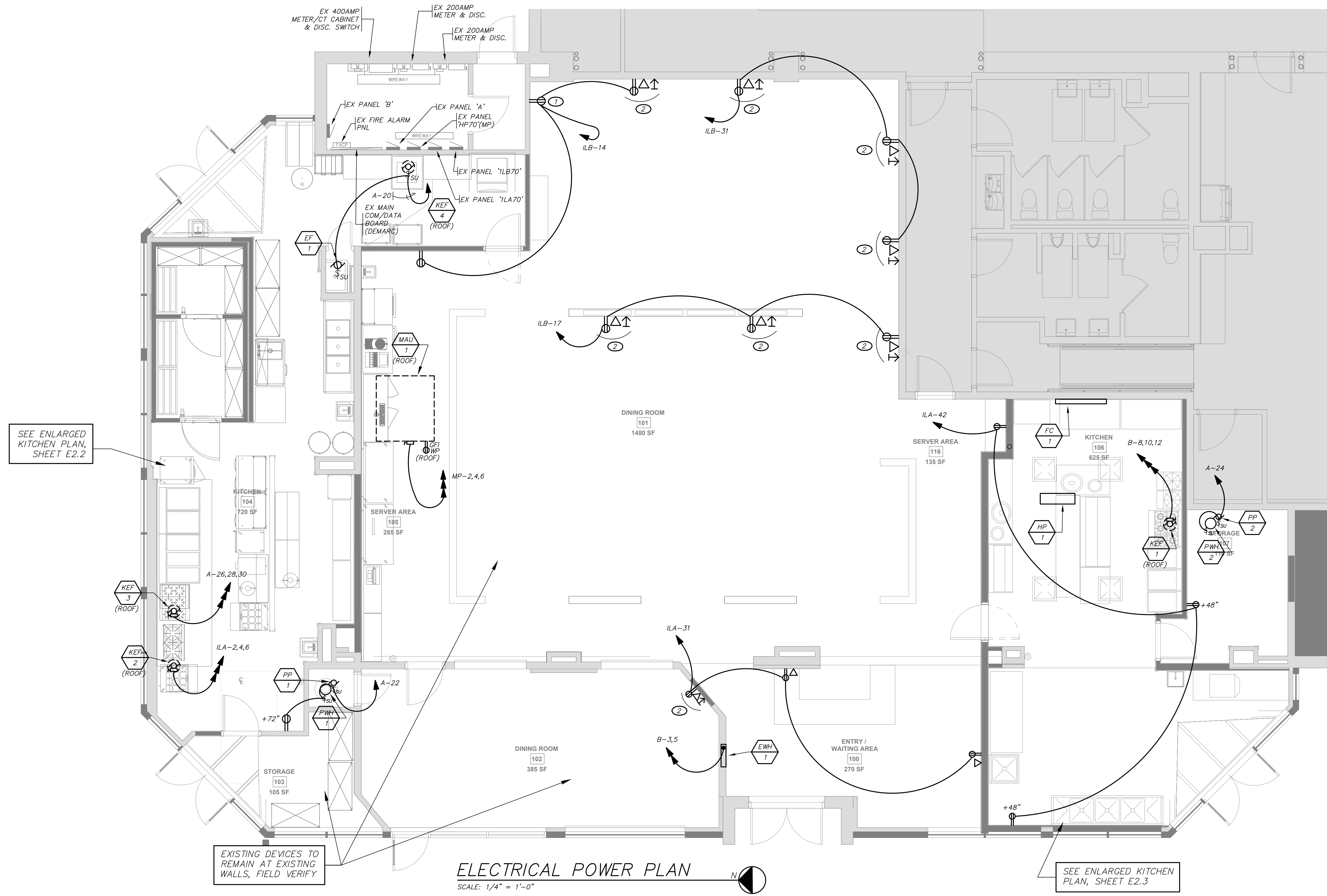
**E2.1**

**REFERENCE NOTES (THIS SHEET ONLY)**

- ① NEW DEVICE REPLACING EXISTING, CONFIRM FINISH WITH ARCHITECT.
- ② CONFIRM EXACT MOUNTING HEIGHT. PROVIDE IN-WALL DEVICE BOX, ARLINGTON #TVBU505.

**GENERAL NOTES:**

- PER NEC 210.8 (B) PROVIDE 'GFI' TYPE RECEPTACLES OR CIRCUIT BREAKERS AS REQUIRED.
- ALL DUPLEX RECEPTACLES TO BE 'TAMPER-PROOF' TYPE.
- EXISTING FIRE ALARM DEVICES TO REMAIN WHERE POSSIBLE, PROVIDE NEW AS REQUIRED PER CODE (DESIGN BUILD).



SEE ENLARGED KITCHEN PLAN, SHEET E2.2

EXISTING DEVICES TO REMAIN AT EXISTING WALLS, FIELD VERIFY

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

SEE ENLARGED KITCHEN PLAN, SHEET E2.3

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STRENGTH IN COMMUNITY

**PROJECT TEAM**

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:  
INTEGRATED MECHANICAL, LLC.

PLUMBING ENGINEER:  
INTEGRATED MECHANICAL, LLC.

ELECTRICAL ENGINEER:  
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**ELECTRICAL ENGINEERS**



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**ELECTRICAL NORTH KITCHEN POWER PLAN**

DRAWING NUMBER:

**E2.2**

**REFERENCE NOTES (THIS SHEET ONLY)**

- 1 COORDINATE EXACT CONTROLS AND HOOD UNIT SHUTDOWN WITH OWNER'S KITCHEN EQUIPMENT SUPPLIER AND CAPTIVE-AIRE CONSULTANTS.

**GENERAL NOTES:**

- PER NEC 210.8 (B) PROVIDE 'GF' TYPE RECEPTACLES OR CIRCUIT BREAKERS AS REQUIRED.
- ALL DUPLEX RECEPTACLES TO BE 'TAMPER-PROOF' TYPE.
- COORDINATE ALL KITCHEN EQUIPMENT WITH SUPPLIER. EACH EQUIPMENT ITEM SHOWN TO BE ON SEPARATE CIRCUIT TO EXISTING PANELS. SEE SHEET E2.1 FOR PANEL LOCATIONS.

**KITCHEN EQUIPMENT SCHEDULE**

KEY	ITEM	LOAD	VOLTAGE/PHASE	FEEDER	BREAKER	NOTES
102.1	FRYER, GAS WITH LED CONTROLS	12A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE CORD & PLUG & DUPLEX OUTLET
102.2	FRYER, GAS WITH LED CONTROLS	12A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE CORD & PLUG & DUPLEX OUTLET
106.1	LOW TEMP HOT HOLDING CABINET	7A	208/1	2#12, 1#12 GND., 1/2" c.	15/2	PROVIDE NEMA 6-15R OUTLET TO MATCH CORD & PLUG
111	RICE COOKER/ WARMER	13A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET
113	DRAWER WARMERS	5.3A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET
201.2	MEGA TOP UNIT	3.8A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET
202.1	UNDERCOUNTER FREEZER	5.7A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET
202.2	68" WORKTOP REFR.	2.4A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET
207.1	REACH-IN SOLID DOOR FREEZER	6.0A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET
207.3	FREEZER, REACH-IN	6.3A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET
209A	WALK-IN COOLER LIGHTS	EST. 2.0A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	DIRECT CONNECTION
209B	WALK-IN EVAP. UNIT	10A EST.	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 3R DISC. SWITCH 30/1/15/3R
209C	WALK-IN CONDENSER	10A EST.	208/3	3#12, 1#12 GND., 3/4" c.	20/3	PROVIDE NEMA 3R DISC. SWITCH 30/3/20/3R
210A	WALK-IN COOLER LIGHTS	2.0A EST.	120/1	2#12, 1#12 GND., 1/2" c.	20/1	DIRECT CONNECTION
210B	WALK-IN EVAP. UNIT	10A EST.	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 3R DISC. SWITCH 30/1/15/3R
210C	WALK-IN CONDENSER	10A EST.	208/3	3#12, 1#12 GND., 3/4" c.	20/3	PROVIDE NEMA 3R DISC. SWITCH 30/3/20/3R
310	DISH MACHINE	23A	120/1	2#10, 1#10 GND., 3/4" c.	30/1	PROVIDE NEMA 3R DISC. SWITCH 30/1/30/3R
311.1	ICE MACHINE	11.1A	208/1	2#12, 1#12 GND., 1/2" c.	15/2	PROVIDE NEMA 1 DISC. SWITCH 30/2/15/1
330	BACK BAR KEG REFR.	3.5A	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET
406.2	SODA DISPENSER	5A (EST.)	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET
500	P.O.S. UNIT	5A (EST.)	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET ALSO PROVIDE COM/DATA OUTLET
504	KIOSK UNITS (CONFIRM ELECTRICAL)	5A (EST.)	120/1	2#12, 1#12 GND., 1/2" c.	20/1	PROVIDE NEMA 5-15R OUTLET ALSO PROVIDE COM/DATA OUTLET

**SEQUENCE OF OPERATION:**

**NORMAL OPERATING CONDITIONS HOOD UNITS**

- ANSUL SYSTEM MICRO SWITCH IN CLOSED POSITION.
- COIL ON CONTACTORS "C1", "C2", "C3", "C4", "C5", "C6", "C7", "C8", AND "C9" ARE ENERGIZED.
- UNDER HOOD EQUIPMENT CONTACTS AND MAKE-UP AIR UNIT CONTACTS ARE CLOSED AND FUNCTION UNDER NORMAL CONTROL OPERATION.
- EXHAUST FAN CONTACTS ARE OPEN AND OPERATE UNDER NORMAL CONTROL OPERATION BY OTHERS.

**ACTIVATION OF ANSUL SYSTEM HOOD UNITS**

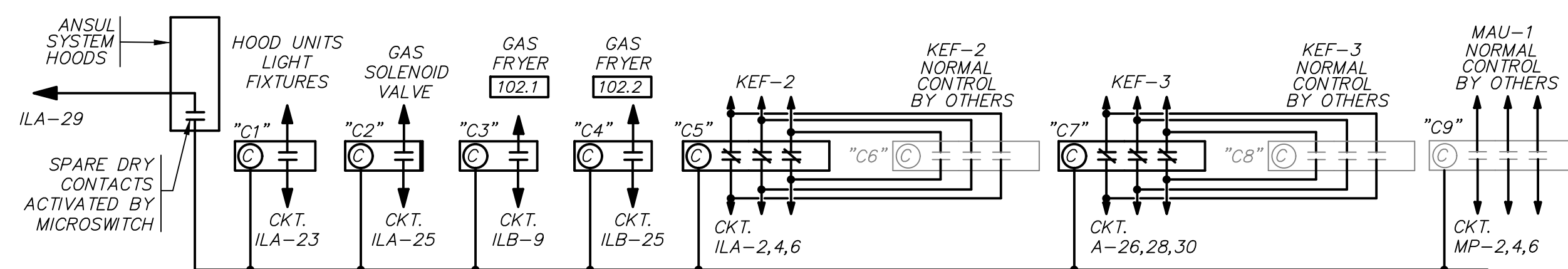
- ANSUL SYSTEM MICRO SWITCH SWITCHES TO THE OPEN POSITION.
- COIL ON CONTACTORS "C1", "C2", "C3", "C4", "C5", "C6", "C7", "C8", AND "C9" ARE DE-ENERGIZED.
- UNDER HOOD EQUIPMENT CONTACTS AND MAKE-UP AIR UNIT CONTACTS ARE OPEN AND WILL NOT FUNCTION UNTIL ANSUL SYSTEM IS RESET.
- EXHAUST FAN CONTACTS ARE CLOSED AND OPERATE REGARDLESS OF NORMAL CONTROL POSITION. FANS REMAIN IN THE ON POSITION UNTIL ANSUL SYSTEM IS RESET.

**NOTES:**

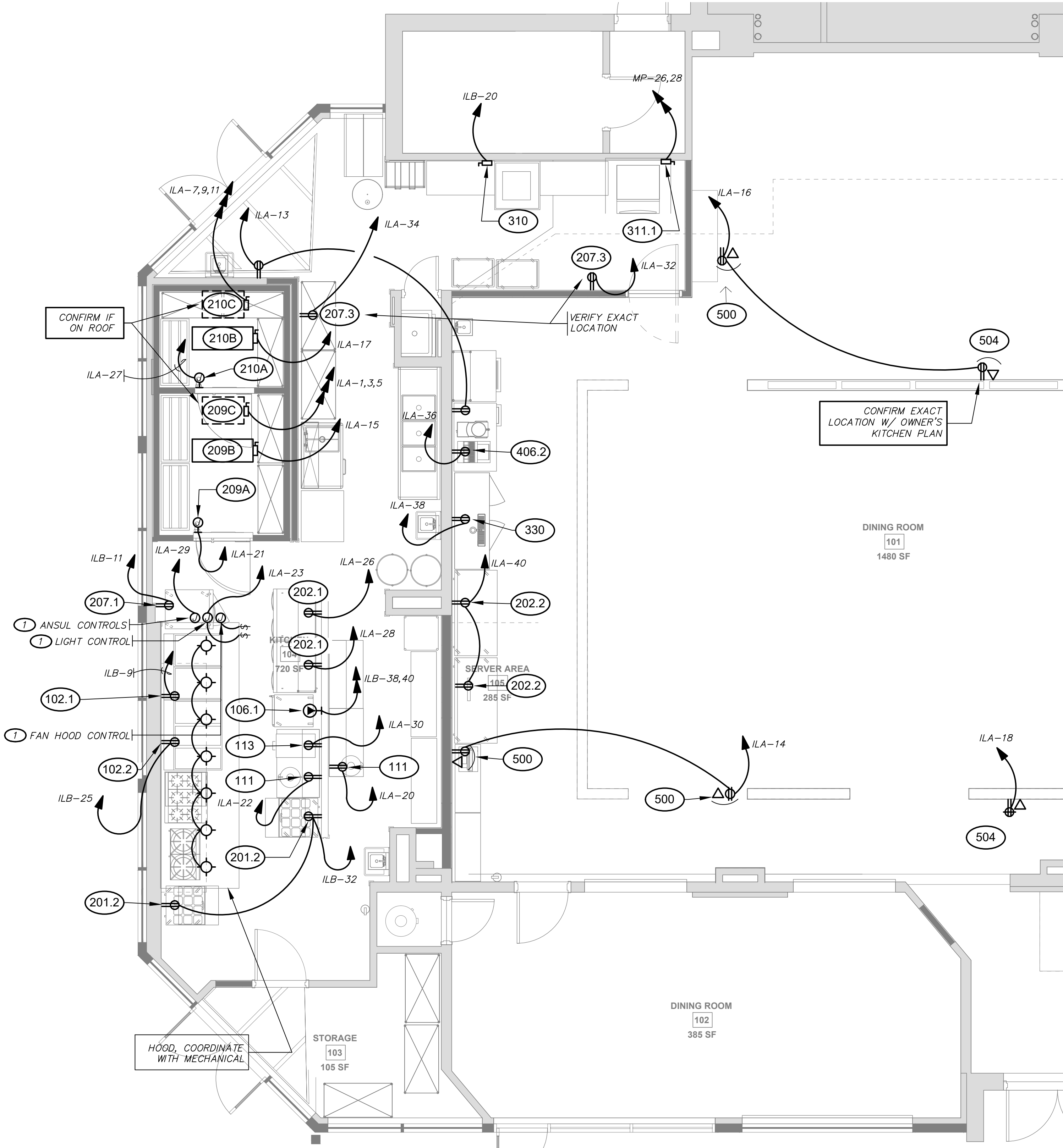
- ALL CONTACTORS FOR FANS SHALL BE 30 AMP, ALL OTHERS TO BE 30 AMP ELECTRICALLY HELD. NUMBER OF POLES AS INDICATED.

**GENERAL NOTES:**

- E.C. TO COORDINATE EXACT REQUIREMENTS WITH HOOD SUPPLIER (CAPTIVE AIRE) DRAWINGS PART OF MECHANICAL SET, AND WITH FIRE SUPPRESSION SYSTEM SUPPLIER.
- E.C. TO CONFIRM ALL KITCHEN EQUIPMENT TO BE LOCATED UNDER HOODS AND WHETHER OR NOT THEY HAVE AN ELECTRICAL CONNECTION OR IF THEY ARE GAS ONLY WITH NO ELECTRICAL CONNECTION.



**KITCHEN HOOD UNITS - SHUT DOWN ONE-LINE** N.T.S.



**ELECTRICAL NORTH KITCHEN PLAN** N  
SCALE: 1/4" = 1'-0"

KITCHEN EQUIPMENT SCHEDULE						
KEY	ITEM	LOAD	VOLTAGE/ PHASE	FEEDER	BREAKER	NOTES
B101	36" WORKTOP FREEZER	4.1A	120/1	2#12, 1#12 GND., 1/2"c.	20/1	PROVIDE NEMA 5-15R OUTLET
B102	MEAT SLICER	14A (EST.)	120/1	2#12, 1#12 GND., 1/2"c.	20/1	PROVIDE NEMA 5-15R OUTLET
B103	REACH-IN REFR.	7.2A	120/1	2#12, 1#12 GND., 1/2"c.	20/1	PROVIDE NEMA 5-15R OUTLET
B104	RICE COOKER	3000W	240/1 (208/1)	2#12, 1#12 GND., 1/2"c.	20/2	PROVIDE NEMA 6-20R OUTLET AND CORD & PLUG TO MATCH
B105	48" SALAD PREP	1/3 HP	120/1	2#12, 1#12 GND., 1/2"c.	20/1	PROVIDE NEMA 5-15R OUTLET
B106	70" SALAD PREP	7.8A	120/1	2#12, 1#12 GND., 1/2"c.	20/1	PROVIDE NEMA 5-15R OUTLET
B107	SAUCE WARMER	10.4A	120/1	2#12, 1#12 GND., 1/2"c.	20/1	PROVIDE NEMA 5-15R OUTLET
B108	U.C. FREEZER	4.5A	120/1	2#12, 1#12 GND., 1/2"c.	20/1	PROVIDE NEMA 5-15R OUTLET
B109	U.C. REFR.	2.6A	120/1	2#12, 1#12 GND., 1/2"c.	20/1	PROVIDE NEMA 5-15R OUTLET
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**GENERAL NOTES:**

- PER NEC 210.8 (B) PROVIDE 'GFI' TYPE RECEPTACLES OR CIRCUIT BREAKERS AS REQUIRED.
- ALL DUPLEX RECEPTACLES TO BE 'TAMPER-PROOF' TYPE.
- COORDINATE ALL KITCHEN EQUIPMENT WITH SUPPLIER. EACH EQUIPMENT ITEM SHOWN TO BE ON SEPARATE CIRCUIT TO EXISTING PANELS, SEE SHEET E2.1 FOR PANEL LOCATIONS.

**REFERENCE NOTES (THIS SHEET ONLY)**

- COORDINATE EXACT CONTROLS AND HOOD UNIT SHUTDOWN WITH OWNER'S KITCHEN EQUIPMENT SUPPLIER AND CAPTIVE-AIRE CONSULTANTS.
- COORDINATE MOUNTING TYPE FOR OUTLET, FLOOR PEDESTAL OR DROP CORD TYPE WITH KITCHEN EQUIPMENT SUPPLIER.

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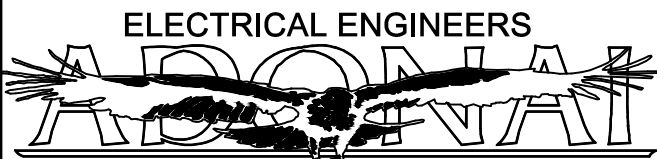
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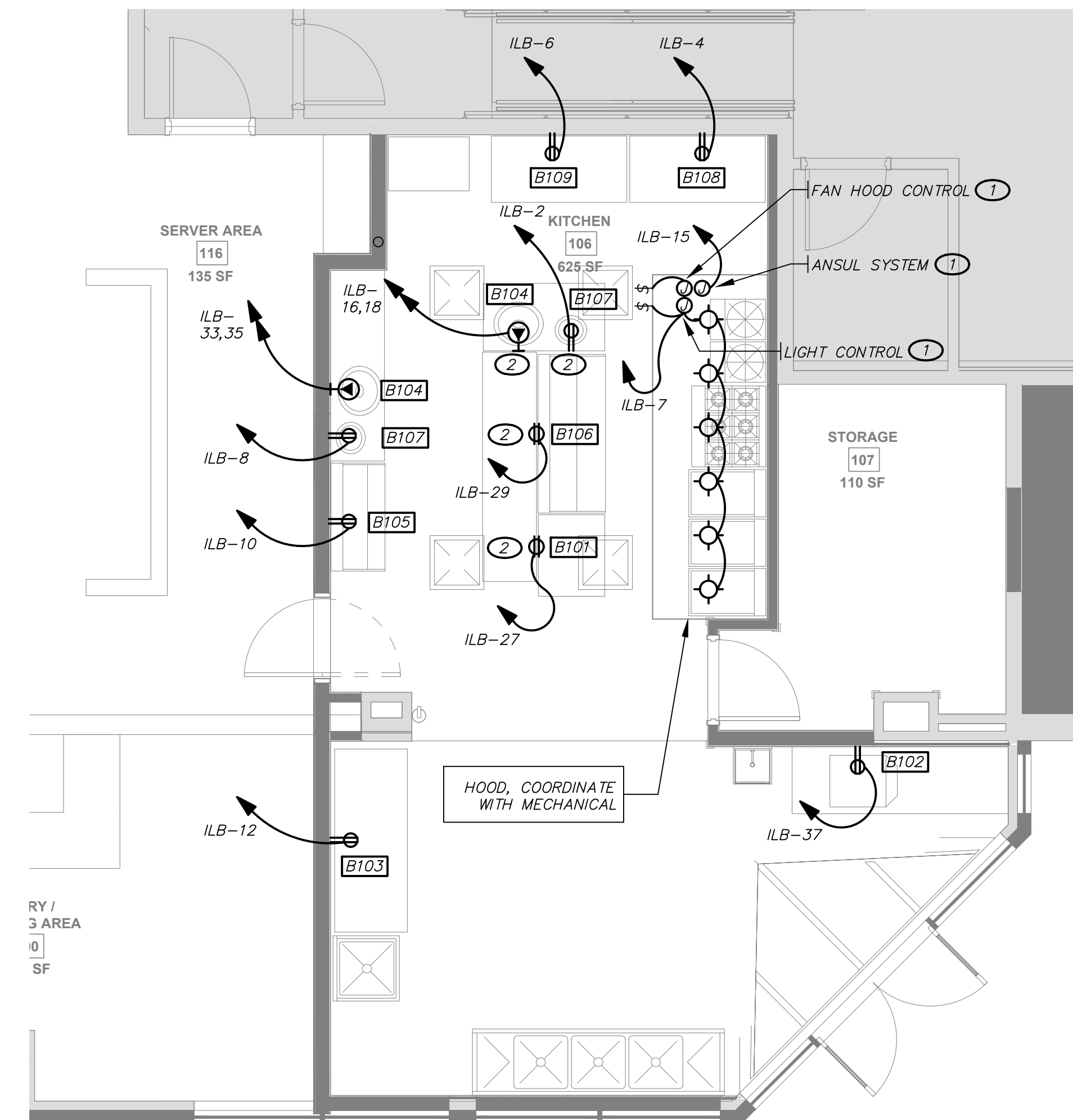
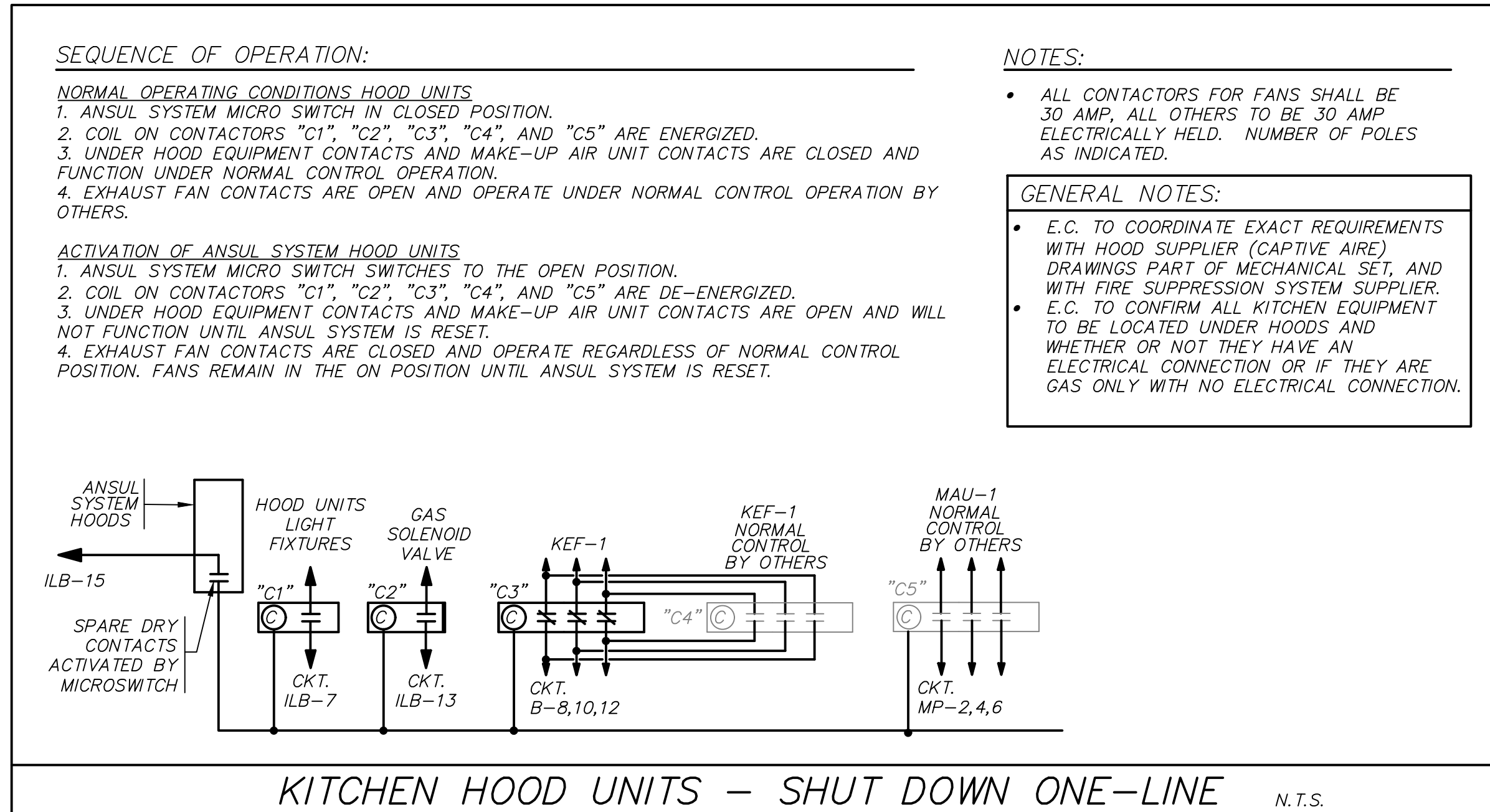
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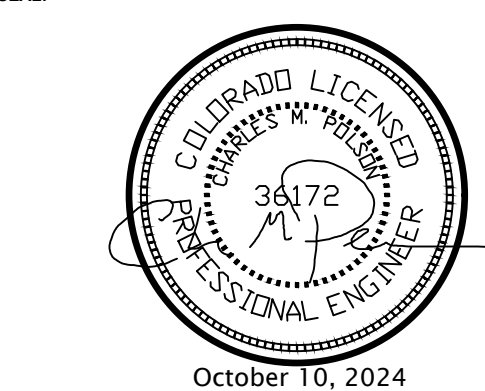
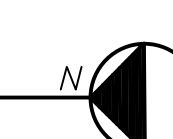
**PERMIT SET**

DESCRIPTION	DATE
DESIGN DEVELOPMENT	09-20-2024
PERMIT SET	10-11-2024



**ELECTRICAL SOUTH KITCHEN PLAN**

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



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**ELECTRICAL SOUTH KITCHEN POWER PLAN**

DRAWING NUMBER:

**E2.3**

### COMcheck Software Version COMcheckWeb

## Interior Lighting Compliance Certificate

**Project Information**  
 Energy Code: 2021 IECC  
 Project Title: BONCHON and BROWN DONKATSU  
 Project Type: New Construction  
 Construction Site: Owner/Agent: Designer/Contractor:

**Additional Efficiency Package(s)**  
 Credits: 10.0 Required 0.0 Proposed

A	B	C	D
Area Category	Floor Area (ft <sup>2</sup> )	Allowed Watts / ft <sup>2</sup>	Allowed Watts
L-Dining: Bar Lounge/Leisure	4891	0.80	3913
Total Allowed Watts =			3913

**Proposed Interior Lighting Power**

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixture (C X D)	Watt.	Watt.
L-Dining: Bar Lounge/Leisure	1	5	52	260
LED: TYPE A: LED STRIPLIGHT: Other:	1	1	15	15
LED: TYPE B, BE: LED PANEL LIGHT: Other:	1	8	41	328
LED: TYPE C: LED DOWNLIGHT: Other:	1	5	14	70
LED: TYPE G, G1: LED PENDANT LIGHT: Other:	1	20	17	340
LED: TYPE H, H1: LED TRACK LIGHT HEAD: Other:	1	63	15	945
Track Lighting: EXISTING: EXISTING B TRACK: Wattage based on total luminaires	0	0	120	120
Incandescent: EXISTING: EXISTING PENDANT: Incandescent 60W:	1	3	60	180
Incandescent: EXISTING: EXISTING DOWNLIGHTS: Incandescent 60W:	1	60	15	900
Linear Fluorescent: EXISTING: WRAPAROUND: Other: --:	1	10	68	680
Total Proposed Watts =			3838	

Interior Lighting PASSES: Design 2% better than code

**Interior Lighting Compliance Statement**  
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Randy Bremmer - Design Consultant Signature Date: 10.10.24

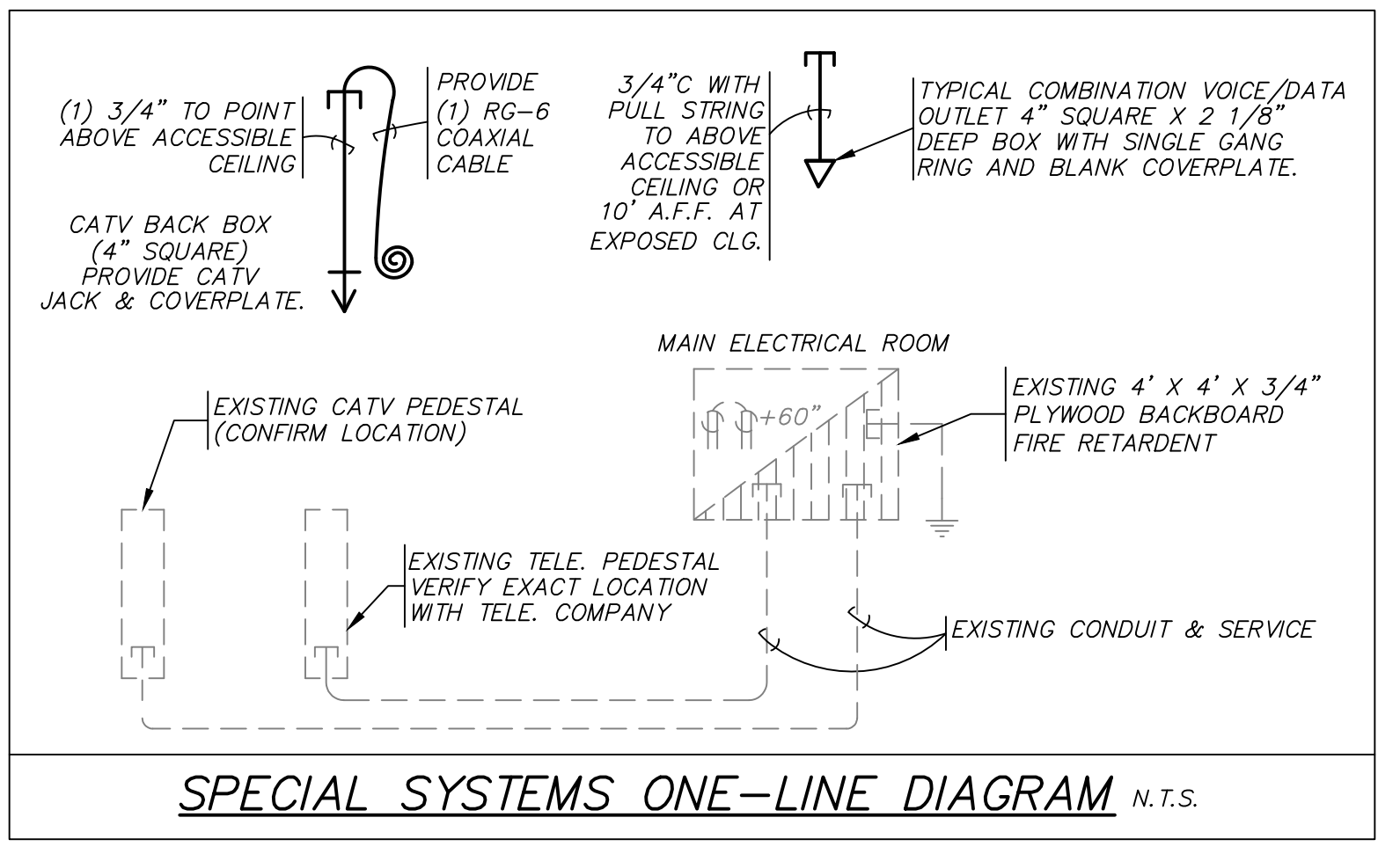
### MECHANICAL EQUIPMENT SCHEDULE

KEY	DESCRIPTION	HP	VOLT	PHASE	AMPS	KVA	WIRE AND CONDUIT	REMARKS
EF 1	EXHAUST FAN UNIT NO.1	---	120	1	-	7 WATTS	2#12, 1#12 GND., 1/2".c.	PROVIDE 'Ssu', RUNS 24/7
EWH 1	ELECTRIC WALL HEATER UNIT NO. 1	---	208	1	-	3 KW	2#12, 1#12 GND., 1/2".c.	PROVIDED WITH INTEGRAL DISC. MEANS
FC 1	FAN COIL UNIT NO. 1	---	208	1	0.4A	---	2#12, 1#12 GND., 1/2".c.	WIRE THRU HP-1 OUTDOOR UNIT
HP 1	HEAT PUMP UNIT NO. 1	---	208	1	25 MCA 35 MOCP	---	2#8, 1#10 GND., 3/4".c.	PROVIDE NEMA 3R DISC. SWITCH 60/2/35/3R
KEF 1	KITCHEN EXHAUST FAN UNIT NO. 1	3 HP	208	3	-	---	3#12, 1#12 GND., 1/2".c.	PROVIDE NEMA 3R DISC. SWITCH 30/3/17.5/3R
KEF 2,3	KITCHEN EXHAUST FAN UNIT NO. 2,3	2 HP	208	3	-	---	3#12, 1#12 GND., 1/2".c.	PROVIDE NEMA 3R DISC. SWITCH 30/3/10/3R
KEF 4	KITCHEN EXHAUST FAN UNIT NO. 4	1/4 HP	120	1	-	---	2#12, 1#12 GND., 1/2".c.	PROVIDE 'Ssu' WP CONTROL BY MECH., COORDINATE
MAU 1	MAKE-UP AIR UNIT NO. 1	---	208	3	104.3 MCA 125 MOCP	---	3#1, 1#6 GND., 1 1/2".c.	PROVIDE NEMA 3R DISC. SWITCH 200/3/125/3R
PP 1,2	POTABLE PUMP UNIT NO. 1,2	---	120	1	-	45 WATTS	2#12, 1#12 GND., 1/2".c.	PROVIDE 'Ssu'
PWH 1,2	POTABLE WATER HEATER UNIT NO. 1,2	---	120	1	-	400 WATTS	2#12, 1#12 GND., 1/2".c.	PROVIDE 'Ssu'
XXX X	-	---	-	-	-	---	-	-

### LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS	DESCRIPTION	FINISH	MOUNTING	MANUFACTURER	CAT. NO.	VOLTS
A	LED FURN W/UNIT	48" LONG LED STRIPLIGHT WITH LENS	WHITE	SURFACE	LITHONIA	ZLIN-LED-L48-7000LM-FST-120-30K-80CRI-WH	120
A1	LED FURN W/UNIT	24" LONG LED STRIPLIGHT WITH LENS	WHITE	SURFACE ABOVE DOOR	LITHONIA	ZLIN-LED-L24-1500LM-FST-120-30K-80CRI-WH	120
B	LED W/ UNIT	2' X 2' LED PANEL LIGHT IN GRID TYPE CEILING	WHITE	RECESSED	LITHONIA	CPANL-2X2-AL01-SWW7-M4	120
BE	LED W/ UNIT	2' X 2' LED PANEL LIGHT IN GRID TYPE CEILING WITH BATTERY BACKUP	WHITE	RECESSED	LITHONIA	CPANL-2X2-AL01-SWW7-M4-ILBLP-CF10-HE-SD-A	120
C	LED FURN W/UNIT	6" DIA. LED DOWNLIGHT	WHITE	RECESSED	LITHONIA	WF6-LED-27K30K35K-90CRI-MW	120
E	LED FURN W/UNIT	EMERGENCY BATTERY UNIT WITH TWO ADJUSTABLE HEADS	WHITE	WALL AT +7'-6" A.F.F.	LITHONIA	ELM4L	120
EX	NOTE NO.1	EXISTING LIGHTING FIXTURE TO REMAIN, CLEAN AND RE-LAMP AS REQUIRED	EXISTING	EXISTING, SEE PLANS	EXISTING	EXISTING TO REMAIN	120
G	LED FURN W/UNIT	16" DIA. x 11" H. LED PENDANT LIGHT	BLACK (CONFIRM)	PENDANT (CONFIRM HEIGHT)	G LIGHTING	GL-2350-A-NA-BLK-MO-4-BC CONFIRM HT.	120
G1	LED FURN W/UNIT	6" DIA. x 15" H. LED PENDANT LIGHT	BLACK (CONFIRM)	PENDANT (CONFIRM HEIGHT)	G LIGHTING	GL-6577-A-W-BLK-4-BC CONFIRM HT.	120
H	LED FURN W/UNIT	6'-0" SURFACE TRACK WITH (3) THREE LED ADJUSTABLE TRACK HEADS	BLACK	SURFACE	JUNO	TRACK #T-6FT-BL HEADS (3) #R620L-30K-90CRI-PDIM-VRS-BL	120
H1	LED FURN W/UNIT	8'-0" SURFACE TRACK WITH (4) FOUR LED ADJUSTABLE TRACK HEADS	BLACK	SURFACE	JUNO	TRACK #T-8FT-BL HEADS (3) #R620L-30K-90CRI-PDIM-VRS-BL	120
X,X1	LED W/ UNIT	SINGLE/DOUBLE FACE LED EXIT LIGHT WITH BATTERY BACKUP	WHITE (CONFIRM)	SEE PLANS	LITHONIA	LQM-S-W-3-G-MVOLT-ELN	120

LIGHTING FIXTURE SCHEDULE NOTES:  
 1. CLEAN FIXTURE, RE-LAMP EXISTING BULB(S) TO MAKE FIXTURES OPERATIONAL IF REQUIRED, FIELD CONFIRM.

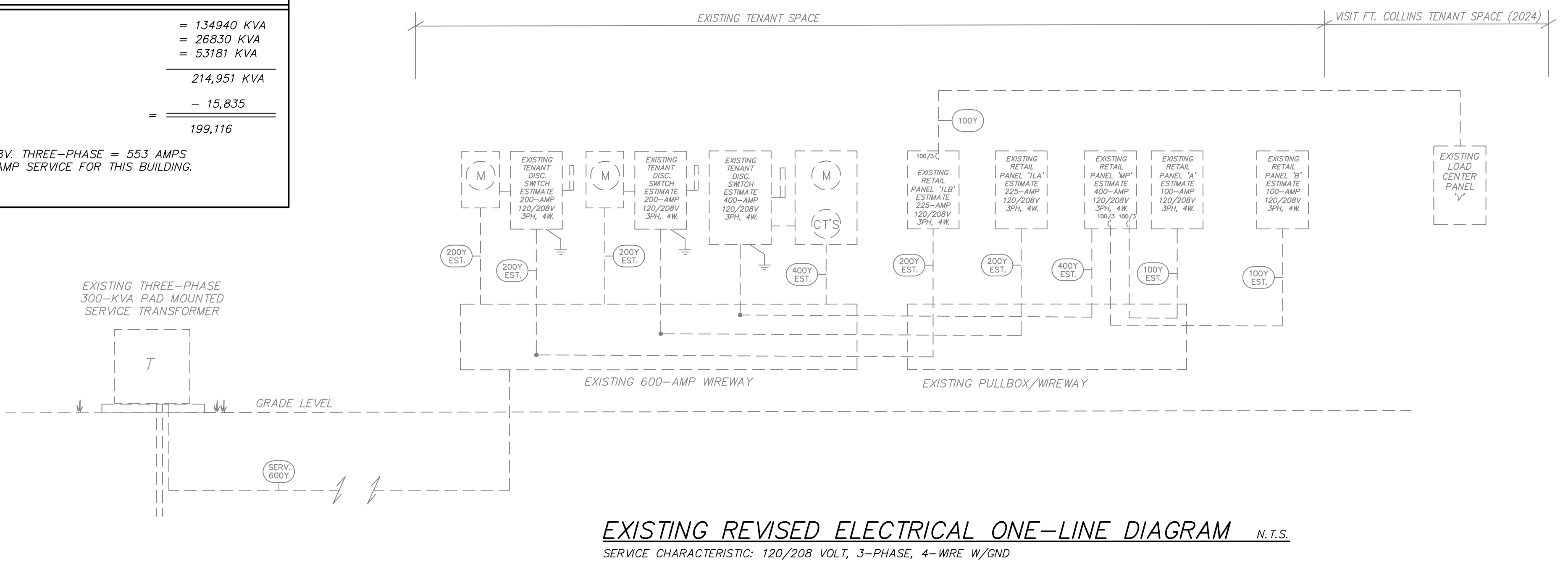


### EXISTING/NEW FEEDER SCHEDULE

125Y	(4 #1 THWN CU & 1#8 CU GRD) 2".c
200Y	(4#3/0 THWN CU & 1#6 CU GRD)2-1/2".c
400Y	2-RUNS[(4#3/0 THWN CU & 1#3 CU GRD)2-1/2".c] **OR** 2-RUNS[(4#250 MCM THWN AL & 1 #3 CU GRD)3".c] ESTIMATED AS 3-RUNS[(4#500 MCM THWN AL & 1 #4/0 CU GRD)4".c]
SERV 800Y	(4 #1 THWN CU & 1#8 CU GRD) 2".c

### LOAD SUMMARY ON EXISTING SERVICE

PANEL 'MP' =	1,34940 KVA
PANEL 'ILA' =	26830 KVA
PANEL 'ILB' =	53181 KVA
214,951 KVA	
KITCHEN EQUIP DIVERSITY PER NEC 220.56	= 15,835
199,116	
199,116 KVA @ 208V, THREE-PHASE = 553 AMPS ON EXISTING 600 AMP SERVICE FOR THIS BUILDING.	



**SERIES RATING SPECIFICATION**

Where series rating combinations are shown on the plans, the loads side circuit breakers supplied shall be tested and listed as a series combination with the line side fuses per the plans. Panelboards with series rated loads side circuit breakers shall have a manufacturer's label stating the listing for the series combination interrupting rating for the loads side circuit breakers and the lineside fuse combination, in compliance with NEC Section 240-86. This series rating shall be equal to or greater than the available short-circuit current.

Where series rated combinations are utilized, the electrical contractor shall affix field installed labels to the loads side circuit breaker panelboard and feeder switch/panelboard/switchboard, in compliance with NEC Section 110-22. As required in Section 110-22, the loads side panelboard/switchboard label shall be field marked with the short-circuit rating of the series combination, type circuit breaker for replacement, part number for the series rated lineside, feeder fuses and location/name of this fuse switch/panelboard/switchboard. The panel/switch with the lineside fuses shall be field marked with short-circuit rating of the series combination, part number for fuse replacement and the location/name of loads side, series rated panelboard/switchboard.

If the manufacturer/supplier/installer cannot supply tested and listed series rated combinations of the specified loads side circuit breakers with the specified line side fuses, it is their responsibility to provide loads side circuit breakers that have fully rated interrupting ratings equal to or greater than the short-circuit current available at the loads side circuit breakers.

EXISTING REVISED ELECTRICAL ONE-LINE DIAGRAM N.T.S.  
 SERVICE CHARACTERISTIC: 120/208 VOLT, 3-PHASE, 4-WIRE W/GND

PROJECT NUMBER: APS.616.24

# BONCHON & BROWN DONKATSU

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524

419 CANYON AVE STE 200, FORT COLLINS, CO 80521  
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
STRENGTH IN COMMUNITY

PROJECT TEAM

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN

MECHANICAL ENGINEER:  
INTEGRATED MECHANICAL, LLC.

PLUMBING ENGINEER:  
INTEGRATED MECHANICAL, LLC.

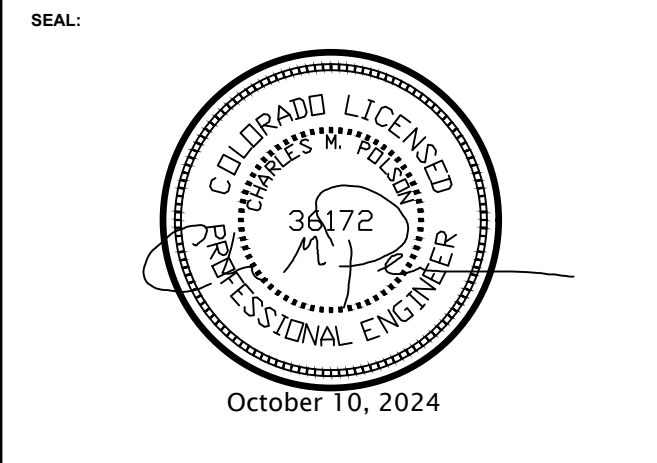
ELECTRICAL ENGINEER:  
APS, INC.

ELECTRICAL ENGINEERS  
ADONAI

APSINC.BIZ

### PERMIT SET

SHEET ISSUANCES	DESCRIPTION	DATE
	DESIGN DEVELOPMENT	09-20-2024
	PERMIT SET	10-11-2024



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## ELECTRICAL ONE-LINE DIAGRAMS & SCHEDULES

DRAWING NUMBER: **E3.1**

**BONCHON & BROWN DONKATSU**

7 OLD TOWN SQUARE  
FORT COLLINS, CO 80524



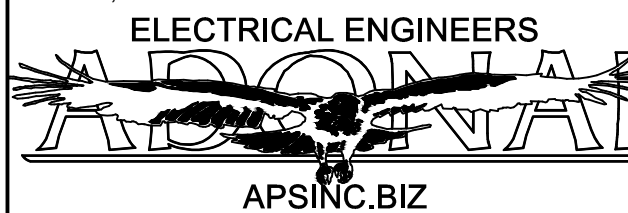
419 CANYON AVE STE 200, FORT COLLINS, CO 80521  
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN  
STRENGTH IN PARTNERSHIP  
STRENGTH IN COMMUNITY

**PROJECT TEAM**

STRUCTURAL ENGINEER:  
LARSEN STRUCTURAL DESIGN  
MECHANICAL ENGINEER:  
INTEGRATED MECHANICAL, LLC.  
PLUMBING ENGINEER:  
INTEGRATED MECHANICAL, LLC.

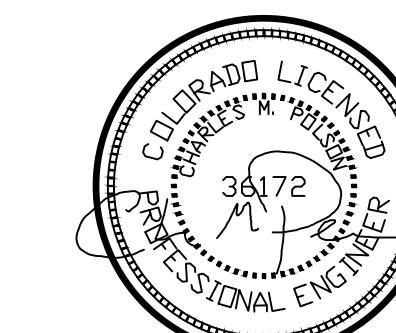
ELECTRICAL ENGINEER:  
APS, INC.



**PERMIT SET**

DESCRIPTION	DATE
DESIGN DEVELOPMENT	09-20-2024
PERMIT SET	10-11-2024

SEAL:



October 10, 2024

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**ELECTRICAL SCHEDULES & DETAILS**

CKT. NO.	AMPS	POLES	LOAD SERVED	LTG.	RECP.	MECH.	SPARE	PHASE	LTG.	RECP.	MECH.	KITCHEN	LOAD SERVED	AMPS	POLES	CKT. NO.
1	20	1	RECEPT. WEST EM LTS					A					3900			2
3	20	1	WALK IN COOLER					B					3900			4
5	20	1	ROOF TOP GFI RECP.		800			C					3900			6
7	20	1	DINING LIGHTS	800				A	200				EXIT & EM LIGHTS	20	1	8
9	20	1	FLOW SWITCH			100		B	200				EXIT & EM LIGHTS	20	1	10
11	20	1	DINING TRACK	900				C			100		OLD FIRE PANEL	20	1	12
13	20	1	DINING TRACK	960				A			100		NEW FIRE PANEL	20	1	14
15	20	1	DINING TRACK	960				B					RECEPT UNDER HOOD	20	1	16
17	20	1	DINING TRACK	960				C					RECEPT UNDER PANEL	20	1	18
19	20	1	LOBBY LIGHTS	200				A			770		EF-1, KEF-4	20	1	20
21	20	1	RECP.T, EM LIGHTS					B			445		PWH-1, PP-1	20	1	22
23	20	1	S. WINDOW RECEPTS					C			445		PWH-2, PP-2	20	1	24
25	20	1	EXHAUST FANS					A				936	KEF-3	15	26	
27	20	1	W. DINING LIGHTS	600		150		B				936			28	
29	20	1	S. KITCHEN LIGHTS	740				C				936			30	

CONN. LOAD 6120 800 250 400 13560 2808 CONN. LOAD  
% DF 1.25 NEC 1.0 1.25 1.0 1.0 % DF  
EMD 7650 800 250 500 13560 2808 EMD  
EMD = 25568 VA = 71A MAIN BREAKER SIZE: -  
SYS. VOLT 208V3 OR MAIN LUG ONLY (MLO): 125A

\* REPLACE EXISTING BREAKER IN SIZE AS SHOWN.  
\* VERIFY IF EXISTING CIRCUIT IS STILL ACTIVE, IF YES UPDATE SCHEDULE, IF NO AS SUSPECTED RE-LABEL AS "SPARE" AND DISCONNECT ANY REMAINING WIRING.

CKT. NO.	AMPS	POLES	LOAD SERVED	LTG.	RECP.	MECH.	KITCHEN	PHASE	LTG.	RECP.	MECH.	KITCHEN	LOAD SERVED	AMPS	POLES	CKT. NO.
1	100		PANEL "V"				5898						1248 WARMER (B107)	20	1	2
3							5898						540 U.C. FREEZER (B108)	20	1	4
5	3						5898						312 U.C. REFR. (B109)	20	1	6
7	20	1	HOOD LIGHTS	300				A					1248 WARMER (B107)	20	1	8
9	20	1	GAS FRYER (102.1)					B			1440		864 SALAD PREP (B105)	20	1	10
11	20	1	FREEZER (207.1)					C					864 REFR. (B103)	20	1	12
13	20	1	GAS SOLENIOD					A		600			DINING OUTLETS	20	1	14
15	20	1	ANSUL SYSTEM					B		1500			RICE COOKER (B104)	20	1	16
17	20	1	DINING OUTLETS		600			C					1500			18
19	50		RTU					A					2760 DISHWASHER (310)	30	1	20
21								B					SPACE ONLY			22
23	3							C					SPACE ONLY	30	1	24
25	20	1	GAS FRYER (102.2)					A			1440		SPACE ONLY	30	1	26
27	20	1	FREEZER (B101)					B			492		SPACE ONLY	30	1	28
29	20	1	SALAD PREP (B106)					C			936		SPACE ONLY			30
31	20	1	DINING OUTLETS		600			A					912 MEGATOP (201.2)	20	1	32
33	20	1	RICE COOKER (B104)					B			1500		N. WALL OUTLET	20	1	34
35	2							C			1500		N. WALL OUTLET	20	1	36
37	20	1	MEAT SLICER (B102)					A			1680		728 HOLDING CABINET (106.1)	15	38	
39			SPACE ONLY					B					728			40
41			SPACE ONLY					C					SPACE ONLY			42

CONN. LOAD 300 1200 2789 9908 600 13204 CONN. LOAD  
% DF 1.25 NEC 1.0 1.0 1.0 NEC 1.0 % DF  
EMD 375 1200 2789 9908 600 13204 EMD  
EMD = 53181 VA = 148A MAIN BREAKER SIZE: -  
SYS. VOLT 208V3 OR MAIN LUG ONLY (MLO):

\* REPLACE EXISTING BREAKER IN SIZE AS SHOWN.  
\* VERIFY IF EXISTING CIRCUIT IS STILL ACTIVE, IF YES UPDATE SCHEDULE, IF NO AS SUSPECTED RE-LABEL AS "SPARE" AND DISCONNECT ANY REMAINING WIRING.

NOTE:  
NEW BREAKERS TO BE ADDED TO EXISTING PANELS AS REQUIRED FOR NEW KITCHEN AND NEW MECHANICAL EQUIPMENT, SEE RESPECTIVE SCHEDULES. TYPICAL ALL EXISTING PANELS

CKT. NO.	AMPS	POLES	LOAD SERVED	LTG.	RECP.	MECH.	KITCHEN	PHASE	LTG.	RECP.	MECH.	KITCHEN	LOAD SERVED	AMPS	POLES	CKT. NO.
1	20		COOLER COMP. (209C)					A					1200	936	KEF-2	15
3	20							B					1200	936		4
5	3							C					1200	936		6
7	20		COOLER COMP. (210C)					A					1200	936		8
9	20							B		700			1200	936		10
11	3							C		100			1200	936		12
13	20	7	GEN. OUTLETS			400		A					600			14
15	15	7	WARM COOLER FANS					B					1200	600	POS (500)(504)	20
17	15	7	COLD COOLER FANS					C					1200	600	POS (500)	20
19	20	1	TEST LAB RECP., SILO			600		A					1550		RICE COOKER (III)	20
21	20	1	WARM COOLER LIGHTS	200				B					1560		RICE COOKER (III)	20
23	20	1	HOOD LIGHTS	400				C					600		BAR LIGHTS	20
25	20	1	SOLENIOD VALVE					A					684		FREEZER (205.1)	20
27	20	1	COOLER LIGHT	200				B					684		FREEZER (205.1)	20
29	20	1	ANSUL SYSTEM					C					636		DRAWER WARMER (113)	20
31	20	1	LOBBY OUTLETS		600			A					756		FREEZER (207.3)	20
33	20	1	BATH RECP.					B					756		FREEZER (207.3)	20
35	20	1	BATH W.H.					C					600		SODA DISC. (406.2)	20
37	20	1	LIGHTS					A					420		KEG REFR. (330)	20
39	20	1	LIGHTS					B					576		WORKTOP REFR. (202.2)	20
41	20	1	LIGHTS					C					600		S. KITCHEN	20

CONN. LOAD 800 1600 9800 800 600 12830 CONN. LOAD  
% DF 1.25 NEC 1.0 1.25 NEC 1.0 % DF  
EMD 1000 1600 9800 1000 600 12830 EMD  
EMD = 26830 VA = 75A MAIN BREAKER SIZE: -  
SYS. VOLT 208V3 OR MAIN LUG ONLY (MLO): 200A

\* REPLACE EXISTING BREAKER IN SIZE AS SHOWN.  
\* VERIFY IF EXISTING CIRCUIT IS STILL ACTIVE, IF YES UPDATE SCHEDULE, IF NO AS SUSPECTED RE-LABEL AS "SPARE" AND DISCONNECT ANY REMAINING WIRING.

CKT. NO.	AMPS	POLES	LOAD SERVED	LTG.	RECP.	MECH.	SPARE	PHASE	LTG.	RECP.	MECH.	KITCHEN	LOAD SERVED	AMPS	POLES	CKT. NO.
1A	20	1	EAST EXHAUST FAN					A					WEST EXHAUST FAN	20	1	2
3	20	1	UC. FREEZER (B108)					B					UC. FREEZER (B108)	20	1	4
5	20	1	EWH-1					C			1500		SHEETER & UC FRIG.	20	1	6
7	20	1	EWH-2					A			1500		COFFEE POT	20	1	8
9	50		RTU-5					B					1320	KEF-1	20	
11	3							C					1320			10
13	20	1						A					1320			12

CONN. LOAD 14700 3960 CONN. LOAD  
% DF 1.0 1.0 % DF  
EMD 14700 3960 EMD  
EMD = 18660 VA = 52A MAIN BREAKER SIZE: -  
SYS. VOLT 208V3 OR MAIN LUG ONLY (MLO): 125A

\* REPLACE EXISTING BREAKER IN SIZE AS SHOWN.  
\* VERIFY IF EXISTING CIRCUIT IS STILL ACTIVE, IF YES UPDATE SCHEDULE, IF NO AS SUSPECTED RE-LABEL AS "SPARE" AND DISCONNECT ANY REMAINING WIRING.

CKT. NO.	AMPS	POLES	LOAD SERVED	LTG.	RECP.	MECH.	SPARE	PHASE	LTG.	RECP.	MECH.	KITCHEN	LOAD SERVED	AMPS	POLES	CKT. NO.
1	20	1	OUTLETS FOR COOPERS					A					12516 MAU-1	125	2	2
3	20	1	OUTLETS (WEST WALL)					B					12516			4
5	20	1	OUTLETS FOR COOPERS					C					12516			6
7	30		RTU-2 (VERIFY UNIT)					A			3900		RTU-4 (VERIFY LABELING)	50	8	
9	2							B			2028					10
11	20	1	UNKNOWN LOAD					C					3900			12
13	50		RTU-3					A			3900		PANEL 'A'	100	14	
15								B			3900		8523			16
17	3							C			3900		8523			18
19	50		RTU FOR BREWERY AREA					A			3900		6220		PANEL 'B'	100
21								B			3900		6			

